

06900050 MEDICINE CREEK AT LAREDO, MO

LOCATION.--Lat 40°01'36", long 93°26'10", in SW ¼ NW ¼ SE ¼ sec.12, T.60 N., R.23 W., Grundy County, Hydrologic Unit 10280103, on downstream side of Highway E bridge, approximately 0.5 mi east of Laredo.

DRAINAGE AREA.--355 mi².

PERIOD OF RECORD.--November 14, 2000 to current year.

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

REMARKS.--Records good except for estimated daily discharges, which are poor. U.S.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	22	681	44	67	171	103	69	85	38	75	11	4.2
2	26	431	44	61	189	90	67	74	36	83	9.8	4.2
3	29	227	44	91	202	88	62	67	33	48	9.6	4.5
4	25	273	44	211	222	86	59	61	624	40	9.1	4.1
5	23	167	86	132	278	80	56	57	723	35	8.3	3.4
6	20	108	871	55	348	75	56	54	385	29	7.3	3.3
7	36	84	482	102	1,160	72	58	52	177	27	7.0	3.4
8	143	64	255	115	557	66	80	50	810	25	6.8	3.9
9	104	53	177	89	307	63	105	50	975	22	6.6	3.8
10	42	50	137	85	211	58	83	48	471	20	6.4	3.8
11	27	45	109	89	192	56	82	49	1,860	19	5.9	3.6
12	88	41	93	505	211	55	700	98	660	18	6.4	3.6
13	246	38	77	734	3,110	51	1,060	786	1,740	17	23	3.9
14	73	37	e58	321	2,640	47	368	675	466	16	48	4.6
15	41	37	e46	e189	816	45	220	314	235	15	47	6.3
16	29	37	e39	e133	426	44	157	158	153	14	29	8.5
17	24	38	38	e98	283	45	125	109	113	14	20	6.9
18	22	39	e40	e86	214	44	105	190	89	15	16	6.0
19	21	41	e37	107	175	42	90	285	72	16	16	5.5
20	19	45	e34	136	184	41	79	153	58	15	48	5.3
21	18	40	e32	340	218	41	1,870	96	49	14	14	6.1
22	19	39	31	242	190	52	1,460	2,000	45	13	6.9	6.3
23	19	38	30	122	154	92	1,170	420	43	13	5.5	5.6
24	18	38	26	114	134	118	390	170	39	13	5.8	6.2
25	17	36	25	138	123	121	237	103	39	12	5.4	5.5
26	27	36	27	821	115	114	181	77	36	13	7.5	5.2
27	77	42	28	452	107	101	148	61	33	19	6.7	5.8
28	73	40	32	251	111	90	124	52	30	19	9.5	6.8
29	63	39	36	180	---	81	107	45	112	21	13	8.6
30	658	42	49	141	---	75	98	42	100	14	5.4	8.4
31	216	---	69	152	---	72	---	40	---	11	4.6	---
MEAN	73.1	97.5	101	205	466	71.2	316	210	341	23.4	13.7	5.24
MAX	658	681	871	821	3,110	121	1,870	2,000	1,860	83	48	8.6
MIN	17	36	25	55	107	41	56	40	30	11	4.6	3.3
IN.	0.24	0.31	0.33	0.67	1.37	0.23	0.99	0.68	1.07	0.08	0.04	0.02

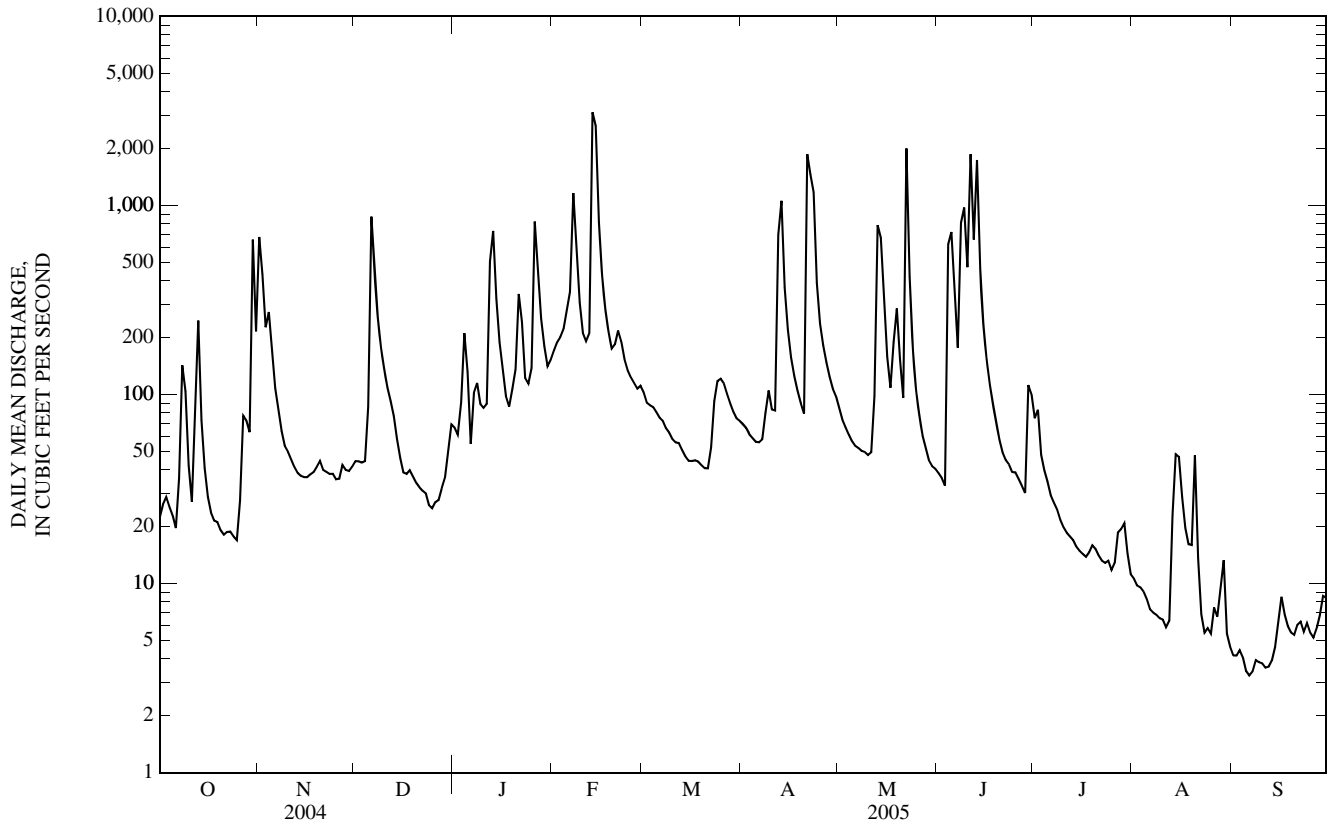
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	31.1	32.5	45.1	80.1	322	346	274	539	494	71.0	264	26.8
MAX	73.1	97.5	101	205	971	860	504	1,026	1,307	252	1,256	79.3
(WY)	(2005)	(2005)	(2005)	(2005)	(2001)	(2001)	(2001)	(2002)	(2001)	(2001)	(2004)	(2004)
MIN	5.04	5.84	5.35	5.16	8.38	16.8	25.1	97.7	32.6	12.7	2.98	5.21
(WY)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2003)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 2001 - 2005
ANNUAL MEAN	319	157	160
HIGHEST ANNUAL MEAN			306
LOWEST ANNUAL MEAN			29.0
HIGHEST DAILY MEAN	18,500	Aug 28	18,500
LOWEST DAILY MEAN	9.0	Feb 8,9	3.3
ANNUAL SEVEN-DAY MINIMUM	10	Feb 5	3.6
MAXIMUM PEAK FLOW	---	4,660	Feb 13
MAXIMUM PEAK STAGE	---	9.82	Feb 13
INSTANTANEOUS LOW FLOW	---	3.1	Sep 5-7
ANNUAL RUNOFF (INCHES)	12.23	6.02	6.13
10 PERCENT EXCEEDS	420	356	224
50 PERCENT EXCEEDS	44	53	24
90 PERCENT EXCEEDS	20	6.8	5.1

e Estimated

06900050 MEDICINE CREEK AT LAREDO, MO—Continued



06900100 LITTLE MEDICINE CREEK NEAR HARRIS, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 40°19'02", long 93°22'52", in SW ¼ SE ¼ NW ¼ sec.28, T.64 N., R.22 W., Mercer County, Hydrologic Unit 10280103, on the left bank on upstream side of bridge on State Highway E, approximately 1.7 mi west of Harris.

DRAINAGE AREA.--66.5 mi².

PERIOD OF RECORD.--November 1997 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)	Specif. conductance, wat unfltrd, μS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 27...	0925	Environmental	16	8.2	82	7.9	360	14.0	--	--	--	--
NOV 18...	1240	Environmental	5.2	10.2	97	8.1	492	13.0	220	63.7	13.9	4.80
DEC 17...	0930	Environmental	4.6	13.7	97	8.1	473	.5	--	--	--	--
JAN 27...	1000	Environmental	24	14.2	100	8.0	262	.5	100	30.9	6.63	10.5
FEB 10...	0955	Environmental	7.0	12.8	90	8.0	366	.5	--	--	--	--
MAR 16...	1000	Environmental	7.6	13.4	104	8.2	447	4.5	--	--	--	--
APR 08...	1355	Environmental	15	9.7	100	8.1	469	17.7	--	--	--	--
MAY 12...	1140	Environmental	8.6	8.9	92	7.5	474	15.5	210	61.8	13.8	4.32
JUN 30...	0920	Environmental	6.0	6.7	81	7.8	450	22.5	--	--	--	--
JUL 12...	1515	Environmental	1.4	7.7	111	8.0	499	32.5	230	67.3	13.9	5.10
AUG 17...	1505	Environmental	.42	6.6	84	7.9	473	27.5	--	--	--	--
SEP 20...	1345	Environmental	.64	11.9	153	8.1	434	28.0	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC, wat fltrd, mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)
OCT 27...	--	--	--	--	--	--	--	--	--	146d	1.0	E.02n	.24
NOV 18...	14.4	185	185	226	<1	10.3	.2	51.5	306	<10	.30	<.04	<.06
DEC 17...	--	--	--	--	--	--	--	--	--	<10	.46	.18	.39
JAN 27...	6.52	80	80	98	<1	10.1	.1	20.4	168	51	1.8	.53	.86
FEB 10...	--	--	--	--	--	--	--	--	--	48	.87	.16	.95
MAR 16...	--	--	--	--	--	--	--	--	--	<10	.34	<.04	<.06
APR 08...	--	--	--	--	--	--	--	--	--	18	.53	<.04	<.06
MAY 12...	14.2	151	152	185	<1	9.29	.2	44.6	278	38	.61	E.04n	E.05n
JUN 30...	--	--	--	--	--	--	--	--	--	20	.68	<.04	E.05n
JUL 12...	17.1	182	181	221	<1	7.92	.3	59.4	319	<10	.48	E.02n	E.05n
AUG 17...	--	--	--	--	--	--	--	--	--	<10	.45	.04	.19
SEP 20...	--	--	--	--	--	--	--	--	--	<10	.31	<.04	<.06

06900100 LITTLE MEDICINE CREEK NEAR HARRIS, MO—Continued

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

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC col/ 100 mL (31625)	Alum- inum, water, fltrd, µg/L (01106)	Alum- inum, water, unfltrd recover- able, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Cadmium water, fltrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)
OCT 27...	.013	.04	.05	.29	5,700	6,600	--	--	--	--	--	--	--
NOV 18...	<.008	<.02	<.04	E.04n	380k	340k	E1n	98	.7	E.02n	E.03n	1.1	17
DEC 17...	E.004n	<.02	<.04	E.03n	140	120	--	--	--	--	--	--	--
JAN 27...	.028	.17	.20	.37	670k	1,300	3	847	1.0	<.04	.06	3.4	64
FEB 10...	.010	E.01n	E.02n	.11	18k	22k	--	--	--	--	--	--	--
MAR 16...	<.008	<.02	<.04	.04	15k	39	--	--	--	--	--	--	--
APR 08...	<.008	E.01n	<.04	.07	250k	290	--	--	--	--	--	--	--
MAY 12...	<.008	E.01n	E.03n	.10	1,400	1,400	2	383	.9	<.04	.04	1.4	9
JUN 30...	E.004n	<.02	E.03n	.10	1,100	5,200k	--	--	--	--	--	--	--
JUL 12...	E.006n	<.02	<.04	.06	160	150	2	74	1.0	E.03n	.04	1.6	34
AUG 17...	.016	E.01n	E.02n	.06	350	420	--	--	--	--	--	--	--
SEP 20...	<.008	<.02	E.03n	.05	71	170	--	--	--	--	--	--	--

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)
OCT 27...	--	--	--	--	--	--	--
NOV 18...	<.08	.13	664	<.01	.4	.6	E1n
DEC 17...	--	--	--	--	--	--	--
JAN 27...	E.07n	1.25	157	<.01	E.3n	2.2	5
FEB 10...	--	--	--	--	--	--	--
MAR 16...	--	--	--	--	--	--	--
APR 08...	--	--	--	--	--	--	--
MAY 12...	<.08	.67	122	<.01	.5	.7	3
JUN 30...	--	--	--	--	--	--	--
JUL 12...	<.08	.12	402	<.01	E.2n	.8	<2
AUG 17...	--	--	--	--	--	--	--
SEP 20...	--	--	--	--	--	--	--

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

06900900 LOCUST CREEK NEAR UNIONVILLE, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 40°28'23", long 93°07'37", in SW ¼ SW ¼ SW ¼ sec.35, T.66 N., R.20 W., Putnam County, Hydrologic Unit 10280103, on left bank on upstream side of bridge on Highway HH approximately 3.2 mi west of State Highway 5, 9.4 mi south of Unionville.

DRAINAGE AREA.--77.5 mi².

PERIOD OF RECORD.--October 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, std units (00400)	Specific conductance, wat unfltrd, 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 28...	1340	Environmental	24	8.6	86	8.0	345	15.0	--	--	--	--
NOV 17...	1305	Environmental	14	9.9	96	8.2	512	14.5	230	68.8	15.0	4.77
NOV 17...	1306	Blank	--	--	--	--	--	--	--	<.02	<.008	<.16
DEC 16...	1120	Environmental	14	12.8	91	8.2	481	.5	--	--	--	--
JAN 26...	1030	Environmental	e25	12.5	90	7.4	170	.5	64	18.6	4.15	8.84
FEB 09...	1520	Environmental	59	14.4	105	8.2	375	1.0	--	--	--	--
MAR 15...	1405	Environmental	13	12.6	108	7.5	489	8.5	--	--	--	--
APR 06...	1345	Environmental	14	9.6	95	8.0	505	15.0	--	--	--	--
MAY 10...	1305	Environmental	11	11.1	133	8.1	503	22.0	240	68.7	15.4	4.26
JUN 28...	1410	Environmental	68	6.7	85	7.6	308	25.0	--	--	--	--
JUL 13...	1320	Environmental	1.1	10.7	142	8.2	491	28.0	220	65.9	13.8	5.17
AUG 18...	1515	Environmental	.79	6.8	91	8.1	438	30.5	--	--	--	--
SEP 19...	1430	Environmental	.23	7.1	84	8.0	409	23.5	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC, wat fltrd, mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)
OCT 28...	--	--	--	--	--	--	--	--	--	52	1.1	<.04	.31
NOV 17...	14.4	184	185	226	<1	10.3	.2	53.6	320	<10	.38	E.03n	.11
NOV 17...	<.20	--	--	--	--	<.20	<.1	<.2	<10	<10	<.10	<.04	<.06
DEC 16...	--	--	--	--	--	--	--	--	--	<10	.49	.08	.36
JAN 26...	3.50	51	43	E52	<1	6.27	.1	12.0	113	412d	3.5	.66	.56
FEB 09...	--	--	--	--	--	--	--	--	--	176	1.3	.18	1.06
MAR 15...	--	--	--	--	--	--	--	--	--	<10	.37	<.04	<.06
APR 06...	--	--	--	--	--	--	--	--	--	<10	.38	<.04	<.06
MAY 10...	15.1	200	201	242	<1	9.08	.2	52.8	324	11	.44	<.04	<.06
JUN 28...	--	--	--	--	--	--	--	--	--	1,200d	3.7	E.03n	.82
JUL 13...	16.8	201	204	249	<1	10.1	.3	36.0	294	<10	.49	E.02n	E.05n
AUG 18...	--	--	--	--	--	--	--	--	--	<10	.62	.07	.32
SEP 19...	--	--	--	--	--	--	--	--	--	10	.45	E.03n	E.04n

06900900 LOCUST CREEK NEAR UNIONVILLE, MO—Continued

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

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7µ MF col/ 100 mL (31625)	Alum- inum, water, fltrd, µg/L (01106)	Alum- inum, water, unfltrd recover- able, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Cadmium water, fltrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)
OCT 28...	E.006n	.05	.07	.23	3,800	4,000	--	--	--	--	--	--	--
NOV 17...	E.004n	E.01n	<.04	.04	620	660	2	55	.8	<.04	E.03n	1.4	17
17...	<.008	<.02	<.04	<.04	--	--	<2	<2	<.2	<.04	<.04	<.4	<6
DEC 16...	<.008	<.02	<.04	.04	75k	92k	--	--	--	--	--	--	--
JAN 26...	.027	.15	.25	.77	--r	--r	6	3,900d	1.0	E.03n	.26	3.3	144
FEB 09...	.011	E.01n	E.03n	.24	100k	75k	--	--	--	--	--	--	--
MAR 15...	<.008	<.02	<.04	.04	36	32	--	--	--	--	--	--	--
APR 06...	<.008	<.02	<.04	.05	230	240	--	--	--	--	--	--	--
MAY 10...	<.008	<.02	E.03n	.06	82	140	5	91	.8	<.04	E.03n	1.6	47
JUN 28...	.038	.03	.06	1.16	44,000k	41,000k	--	--	--	--	--	--	--
JUL 13...	E.006n	<.02	<.04	.05	220	330	3	103	1.2	E.03n	.04	1.2	18
AUG 18...	.017	.02	E.03n	.07	590	520	--	--	--	--	--	--	--
SEP 19...	E.004n	E.01n	E.02n	.06	230	360	--	--	--	--	--	--	--

06900900 LOCUST CREEK NEAR UNIONVILLE, 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)
OCT 28...	--	--	--	--	--	--	--
NOV 17...	.10	.11	347	<.01	E.4n	1.2	E1n
17...	<.08	E.04n	<.6	<.01	<.4	<.6	<2
DEC 16...	--	--	--	--	--	--	--
JAN 26...	.51	6.87	301	E.01n	E.2n	15.2	23
FEB 09...	--	--	--	--	--	--	--
MAR 15...	--	--	--	--	--	--	--
APR 06...	--	--	--	--	--	--	--
MAY 10...	E.04n	.17	187	<.01	.5	E.5n	3
JUN 28...	--	--	--	--	--	--	--
JUL 13...	<.08	.14	468	<.01	.5	.7	<2
AUG 18...	--	--	--	--	--	--	--
SEP 19...	--	--	--	--	--	--	--

Remark codes used in this table:

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

Value qualifier codes used in this table:

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

Null value qualifier codes used in this table:

- r -- Sample ruined in preparation

06901500 LOCUST CREEK NEAR LINNEUS, MO

LOCATION.--Lat 39°53'45", long 93°14'11", in NW ¼ NE ¼ sec.34, T.59 N., R.21 W., Linn County, Hydrologic Unit 10280103, on right bank on upstream side of county road, 1 mi upstream from Boyer bridge, 1.5 mi upstream from Strawberry and Couch Creeks, 3 mi northwest of Linneus, and 5 mi downstream from West Locust Creek.

DRAINAGE AREA.--550 sq mi².

REVISED RECORDS.--WSP 896: 1939.

PERIOD OF RECORD.--October 1928 to September 1972, July 2000 to current year. Prior to April 1929 monthly discharge only published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 692.61 ft above National Geodetic Vertical Datum of 1929. Prior to July 26, 1956, nonrecording gage at same site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1909 reached a discharge of about 18,000 ft³/s, determination by the Corps of Engineers.

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	33	1,320	100	67	154	171	e115	125	98	e111	12	11
2	35	1,260	101	68	179	147	e105	110	96	e131	11	10
3	33	654	99	343	189	135	e95	102	92	e78	11	9.9
4	34	811	99	360	186	141	e90	99	883	e58	10	9.8
5	34	568	114	323	218	134	e80	94	1,490	e45	10	9.6
6	33	332	1,050	227	275	133	e75	88	734	e38	11	9.3
7	39	238	1,140	e380	998	134	e70	85	321	e33	9.8	9.1
8	228	188	582	e275	820	132	e150	83	2,770	e28	9.2	8.8
9	120	156	342	e205	380	131	e140	80	4,100	e25	9.0	8.6
10	103	140	252	e145	e220	128	e125	74	664	e23	8.9	8.6
11	59	130	198	97	e205	121	e120	179	1,030	e21	8.4	8.8
12	82	120	167	1,040	272	115	e1,500	960	649	e20	8.4	8.4
13	392	111	145	3,070	4,160	111	e1,100	4,410	804	e19	14	9.0
14	155	106	e122	639	4,130	109	e780	1,400	831	e18	23	12
15	97	102	e101	e180	1,320	108	e560	666	406	e17	22	13
16	75	100	e89	e110	641	107	e405	333	245	e16	24	14
17	61	99	e85	e85	410	116	e290	234	189	e16	19	13
18	50	99	e92	e80	304	114	e210	196	154	e17	16	11
19	46	100	e78	e85	256	113	e150	187	136	e22	15	9.9
20	43	e103	e60	e95	252	109	e110	191	123	e19	17	9.7
21	41	96	51	e130	296	103	848	153	115	e17	38	9.3
22	40	91	48	e175	264	113	1,890	1,760	108	e16	33	9.1
23	39	88	45	e125	218	159	2,000	543	103	e16	20	11
24	37	90	44	e110	193	175	746	245	116	e19	17	9.9
25	36	87	43	e145	180	201	365	165	106	e18	15	9.6
26	51	85	44	e200	184	200	273	136	101	e16	15	9.3
27	136	116	44	e900	172	176	220	122	e95	e14	13	10
28	162	107	46	e220	173	156	183	115	e90	13	15	9.3
29	105	95	51	211	---	144	160	112	e195	12	31	9.6
30	745	95	59	170	---	e133	138	107	e162	12	15	9.3
31	650	---	60	147	---	e120	---	100	---	13	12	---
MEAN	122	256	179	336	616	135	436	428	567	29.7	15.9	10.0
MAX	745	1,320	1,140	3,070	4,160	201	2,000	4,410	4,100	131	38	14
MIN	33	85	43	67	154	103	70	74	90	12	8.4	8.4
IN.	0.26	0.52	0.38	0.70	1.17	0.28	0.89	0.90	1.15	0.06	0.03	0.02

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

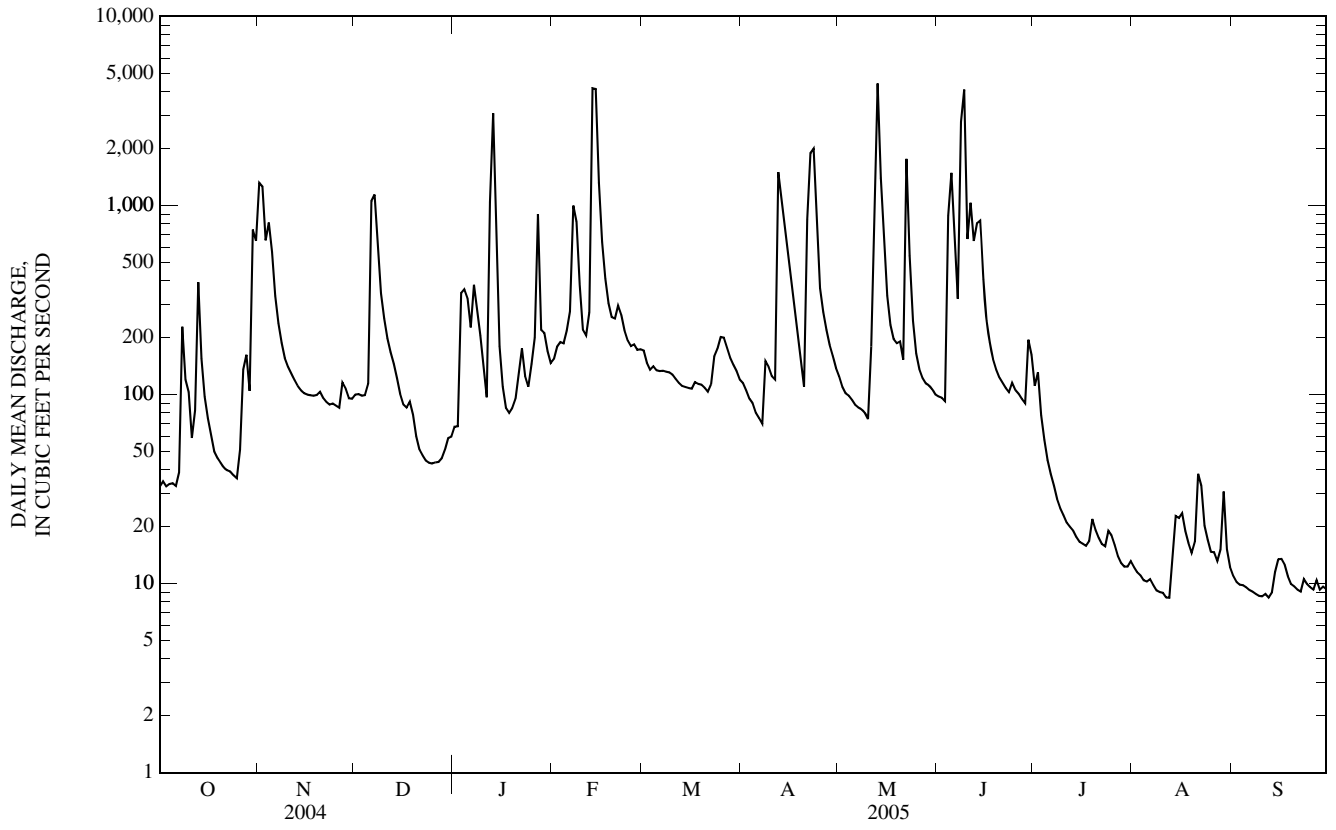
MEAN	155	192	138	184	322	475	567	493	691	263	172	154
MAX	1,174	2,272	803	1,027	1,557	1,898	2,103	2,647	5,820	2,903	2,457	2,079
(WY)	(1930)	(1932)	(1943)	(1946)	(2001)	(1961)	(1944)	(1935)	(1947)	(1958)	(2004)	(1970)
MIN	0.92	2.38	2.70	1.29	3.61	6.47	5.92	23.2	4.72	0.40	0.67	1.97
(WY)	(1957)	(1957)	(1938)	(1940)	(1957)	(1957)	(1956)	(1938)	(1934)	(1934)	(1936)	(1955)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	FOR PERIOD OF RECORD
ANNUAL MEAN	492	257	313
HIGHEST ANNUAL MEAN			796
LOWEST ANNUAL MEAN			21.4
HIGHEST DAILY MEAN	23,800	Aug 29	4,410
LOWEST DAILY MEAN	5.0	Feb 8,9,14-16	8.4
ANNUAL SEVEN-DAY MINIMUM	5.6	Feb 8	8.8
MAXIMUM PEAK FLOW	---		8,700
MAXIMUM PEAK STAGE	---		21.30
INSTANTANEOUS LOW FLOW	---		7.9
ANNUAL RUNOFF (INCHES)	12.18		6.35
10 PERCENT EXCEEDS	834		652
50 PERCENT EXCEEDS	92		107
90 PERCENT EXCEEDS	14		11

e Estimated

06901500 LOCUST CREEK NEAR LINNEUS, MO—Continued



06902000 GRAND RIVER NEAR SUMNER, MO

LOCATION.--Lat 39°38'24", long 93°16'25", in NE ¼ sec.29, T.56 N., R.21 W., Livingston County, Hydrologic Unit 10280103, near right bank on downstream side of pier of bridge on State Highway 139, 240 ft downstream from Chicago, Burlington and Quincy Railroad Bridge, 2.0 mi southwest of Sumner, 2.5 mi downstream from Locust Creek, and at mile 41.0.

DRAINAGE AREA.--6,880 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1923 to current year. Prior to April 1924 monthly discharge only, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 631.18 ft above National Geodetic Vertical Datum of 1929. Prior to July 11, 1926, nonrecording gage at site 200 ft upstream at same datum; July 11, 1926, to July 9, 1939, nonrecording gage at same site and datum; July 10, 1939, to Aug. 8, 1952, water-stage recorder at site 200 ft upstream at same datum; Aug. 9, 1952, to Nov. 12, 1953, nonrecording gage at site 120 ft upstream and at same datum; Nov. 13, 1953, to July 6, 1964, water-stage recorder and nonrecording gage, for stages below 8.3 ft, at site 120 ft upstream and at same datum; July 7, 1964, to May 26, 1965, nonrecording gage at present site and datum. Auxiliary water-stage recorder at site 3.2 mi downstream from base gage at datum 631.30 ft above National Geodetic Vertical Datum of 1929; Mar. 15, 1939, to Aug. 4, 1942, auxiliary nonrecording gage at various sites; Aug. 5, 1942, to Dec. 14, 1956, auxiliary nonrecording gage at present site.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 9, 1909, reached a stage of 36.7 ft, from floodmark.

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	628	4,570	809	729	1,730	1,990	1,200	1,830	964	996	515	1,010
2	626	10,700	802	742	1,800	1,860	1,130	1,640	927	973	439	710
3	618	6,740	804	973	1,820	1,710	1,090	1,480	884	960	391	527
4	593	5,400	791	3,600	1,780	1,650	1,010	1,340	2,430	996	357	430
5	571	5,080	765	4,500	1,750	1,610	957	1,260	10,400	877	333	370
6	556	3,140	1,950	e3,000	1,940	1,580	910	1,190	13,000	774	319	329
7	564	2,170	5,570	e1,600	6,860	1,490	878	1,120	10,000	694	305	302
8	3,210	1,680	4,200	1,390	11,500	1,450	861	1,060	6,590	638	295	282
9	3,380	1,380	2,550	1,360	6,120	1,380	2,130	1,020	20,100	599	287	267
10	1,540	1,190	1,770	1,280	3,540	1,320	3,050	974	13,300	564	279	257
11	992	1,070	1,410	1,320	2,520	1,250	2,180	934	17,000	529	272	244
12	986	963	1,170	1,560	2,480	1,190	3,000	2,030	13,400	503	266	232
13	2,240	871	1,040	9,040	18,600	1,140	11,200	8,870	16,100	482	290	225
14	2,550	795	e867	7,650	52,700	1,120	9,180	23,200	16,000	457	361	226
15	1,530	755	e745	3,020	48,500	1,130	5,600	18,600	8,360	434	454	224
16	1,060	727	712	1,870	23,200	1,080	3,720	10,200	6,220	421	850	278
17	829	722	755	e1,700	8,530	1,050	2,750	6,050	4,270	405	1,030	357
18	709	712	721	1,600	6,070	1,030	2,210	3,900	3,170	398	685	390
19	630	704	e674	1,450	4,930	999	1,870	4,290	2,490	390	653	349
20	586	689	634	1,320	4,210	948	1,820	4,290	2,090	396	1,890	299
21	562	670	633	1,540	3,860	909	2,530	2,910	1,810	402	1,820	260
22	548	651	e607	2,720	3,710	954	19,600	3,510	1,600	415	941	238
23	541	631	e583	2,350	3,310	1,680	18,700	9,640	1,460	411	607	248
24	531	644	e572	1,650	e2,800	2,390	10,700	4,050	1,320	395	447	488
25	510	665	e556	1,420	e2,580	2,320	6,640	2,500	1,210	399	383	477
26	510	678	e546	1,410	e2,380	2,300	4,280	1,930	1,120	383	442	351
27	1,310	1,030	e540	2,650	e2,230	2,040	3,200	1,570	1,040	364	3,890	274
28	1,720	1,790	543	2,920	2,100	1,710	2,640	1,340	965	368	5,150	233
29	1,570	1,160	548	2,430	---	1,490	2,300	1,200	918	622	2,190	216
30	2,360	881	582	2,130	---	1,360	2,070	1,100	933	765	1,380	210
31	4,590	---	648	1,830	---	1,270	---	1,020	---	613	877	---
MEAN	1,263	1,962	1,132	2,347	8,341	1,465	4,314	4,066	6,002	568	916	343
MAX	4,590	10,700	5,570	9,040	52,700	2,390	19,600	23,200	20,100	996	5,150	1,010
MIN	510	631	540	729	1,730	909	861	934	884	364	266	210
IN.	0.21	0.32	0.19	0.39	1.26	0.25	0.70	0.68	0.97	0.10	0.15	0.06

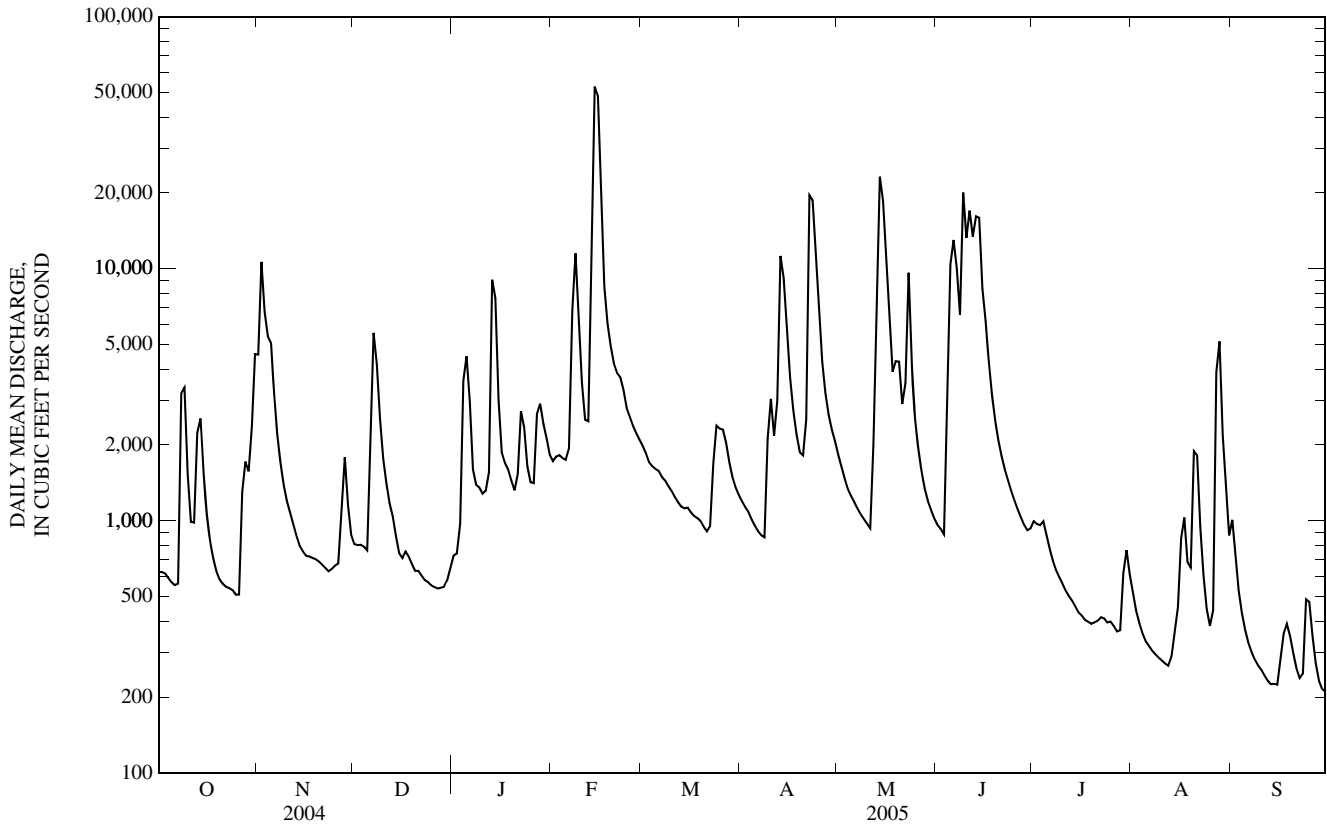
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2005, BY WATER YEAR (WY)

MEAN	2,618	2,835	1,987	1,895	3,786	6,015	6,922	6,601	7,557	4,535	1,901	2,986
MAX	20,630	29,030	15,440	14,750	19,250	34,220	26,680	43,450	67,270	87,900	19,820	28,090
(WY)	(1974)	(1932)	(1983)	(1932)	(1962)	(1979)	(1973)	(1995)	(1947)	(1993)	(2004)	(1926)
MIN	37.1	40.3	53.0	32.1	57.0	79.5	67.3	130	176	52.8	41.0	62.5
(WY)	(1957)	(1957)	(1956)	(1940)	(1939)	(1957)	(1956)	(1956)	(1988)	(1934)	(1936)	(1955)

06902000 GRAND RIVER NEAR SUMNER, MO—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1925 - 2005	
ANNUAL MEAN	7,320		2,676		4,129	
HIGHEST ANNUAL MEAN					17,390	1993
LOWEST ANNUAL MEAN					367	1934
HIGHEST DAILY MEAN	136,000	Aug 30	52,700	Feb 14	166,000	Jun 8, 1947
LOWEST DAILY MEAN	125	Feb 15,16	210	Sep 30	10	Aug 12, 1934
ANNUAL SEVEN-DAY MINIMUM	131	Feb 11	239	Sep 9	12	Aug 7, 1934
MAXIMUM PEAK FLOW	---		57,200	Feb 15	180,000	Jun 8, 1947
MAXIMUM PEAK STAGE	---		33.99	Feb 15	42.52	Jul 10, 1993
INSTANTANEOUS LOW FLOW	---		202	Sep 30	10	Aug 12, 1934
ANNUAL RUNOFF (INCHES)	14.49		5.28		8.15	
10 PERCENT EXCEEDS	17,000		6,060		10,100	
50 PERCENT EXCEEDS	1,240		1,140		965	
90 PERCENT EXCEEDS	275		378		130	

e Estimated



06902000 GRAND RIVER NEAR SUMNER, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1962 to June 1963, August 1967 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1974 to September 1981.

WATER TEMPERATURE: January 1974 to September 1981.

REMARKS.--National Stream-Quality Accounting Network station October 1967 to September 1993. Ambient Water-Quality Monitoring Network station October 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 μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 12...	1345	Environmental	900	8.3	84	7.2	373	14.6	--	--	--	--
NOV 09...	0850	Environmental	1,410	10.2	91	7.4	376	9.8	190	60.6	9.94	5.43
DEC 01...	0850	Environmental	813	13.6	102	7.3	448	2.6	--	--	--	--
JAN 24...	1500	Environmental	1,530	14.2	102	7.1	355	.5	160	51.4	8.84	5.33
FEB 14...	1420	Environmental	55,000	10.0	84	7.4	200	6.8	--	--	--	--
MAR 08...	0830	Environmental	1,460	11.8	100	7.9	490	7.2	--	--	--	--
APR 04...	1545	Environmental	992	11.8	126	8.1	498	16.8	--	--	--	--
MAY 03...	0905	Environmental	1,530	9.9	93	8.0	468	11.5	240	71.9	13.9	4.36
JUN 22...	1130	Environmental	1,600	6.6	86	8.0	380	27.8	--	--	--	--
JUL 12...	0900	Environmental	513	5.8	75	7.8	482	26.8	220	64.6	13.4	4.79
JUL 12...	0901	Replicate	--	5.8	75	7.9	482	26.8	220	64.7	13.6	4.78
AUG 22...	1315	Environmental	909	6.4	81	7.5	283	26.7	--	--	--	--
SEP 07...	0830	Environmental	301	6.0	74	7.7	387	25.2	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT 12...	--	--	--	--	--	--	--	--	--	132	.91	<.04	.36
NOV 09...	10.6	159	163	198	<1	9.58	.2	31.5	267	56	.60	<.04	.33
DEC 01...	--	--	--	--	--	--	--	--	--	22	.55	<.04	.30
JAN 24...	10.9	127	125	155	<1	12.7	.2	30.7	230	90	1.2	.20	.58
FEB 14...	--	--	--	--	--	--	--	--	--	2,160d	4.9d	.15	1.43
MAR 08...	--	--	--	--	--	--	--	--	--	43	.54	<.04	.66
APR 04...	--	--	--	--	--	--	--	--	--	55	.55	<.04	<.06
MAY 03...	11.5	179	177	218	<1	10.1	.3	41.2	296	117	.73	<.04	.96
JUN 22...	--	--	--	--	--	--	--	--	--	203d	1.2	<.04	.58
JUL 12...	14.4	194	193	236	<1	10.5	.3	34.5	290	135	1.4	<.04	<.06
JUL 12...	14.4	--	--	--	--	10.5	.3	34.5	286	119	1.3	<.04	<.06
AUG 22...	--	--	--	--	--	--	--	--	--	252d	1.5	<.04	.41
SEP 07...	--	--	--	--	--	--	--	--	--	55	.75	<.04	<.06

06902000 GRAND RIVER NEAR SUMNER, 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, 0.7 μ MF, col/100 mL (31625)	Aluminum, water, fltrd, μ g/L (01106)	Aluminum, water, unfltrd recover-able, μ g/L (01105)	Arsenic water, fltrd, μ g/L (01000)	Cadmium water, fltrd, μ g/L (01025)	Cadmium water, unfltrd, μ g/L (01027)	Copper, water, fltrd, μ g/L (01040)	Iron, water, fltrd, μ g/L (01046)
OCT 12...	E.004n	E.01n	.04	.26	5,700	7,600k	--	--	--	--	--	--	--
NOV 09...	E.006n	.03	.05	.17	130	120k	Mn	534	1.3	E.03n	.06	1.5	12
DEC 01...	E.004n	<.02	E.02n	.11	860	440	--	--	--	--	--	--	--
JAN 24...	.016	.02	.05	.22	450	530	2	1,020d	1.0	E.04n	.10	2.6	35
FEB 14...	.011	E.01n	.06	1.83	1,500	1,600k	--	--	--	--	--	--	--
MAR 08...	.010	E.01n	<.04	.12	38k	150	--	--	--	--	--	--	--
APR 04...	<.008	<.02	E.03n	.11	2k	7k	--	--	--	--	--	--	--
MAY 03...	<.008	<.02	.05	.21	110	240	Mn	1,380	1.3	E.03n	.08	1.4	E4n
JUN 22...	E.006n	.05	.08	.34	190	240	--	--	--	--	--	--	--
JUL 12...	<.008	E.02n	E.04n	.26	20k	17k	E2n	1,150	1.8	E.03n	.11	1.4	7
JUL 12...	<.008	E.02n	E.04n	.25	16k	11k	2	1,080	1.7	E.03n	.10	1.5	9
AUG 22...	.010	.02	.07	.41	490	560	--	--	--	--	--	--	--
SEP 07...	<.008	.04	.05	.18	46	68	--	--	--	--	--	--	--

Date	Lead, water, fltrd, μ g/L (01049)	Lead, water, unfltrd recover-able, μ g/L (01051)	Manganese, water, fltrd, μ g/L (01056)	Mercury water, unfltrd recover-able, μ g/L (71900)	Selenium, water, fltrd, μ g/L (01145)	Zinc, water, fltrd, μ g/L (01090)	Zinc, water, unfltrd recover-able, μ g/L (01092)
OCT 12...	--	--	--	--	--	--	--
NOV 09...	<.08	1.43	78.9	<.01	.7	E.6n	4
DEC 01...	--	--	--	--	--	--	--
JAN 24...	<.08	9.71	114	<.01	.7	2.7	10
FEB 14...	--	--	--	--	--	--	--
MAR 08...	--	--	--	--	--	--	--
APR 04...	--	--	--	--	--	--	--
MAY 03...	<.08	2.22	50.3	E.01n	1.0	.7	8
JUN 22...	--	--	--	--	--	--	--
JUL 12...	<.08	2.40	155	E.01n	.7	.6	6
JUL 12...	<.08	2.20	152	.01	.6	E.5n	6
AUG 22...	--	--	--	--	--	--	--
SEP 07...	--	--	--	--	--	--	--

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

06904050 CHARITON RIVER AT LIVONIA, MO

LOCATION.--Lat 40°29'02", long 92°41'09", in NW ¼ SE ¼ NW ¼ sec.34, T.66 N., R.16 W., Schuyler County, Hydrologic Unit 10280201, on left bank 10 ft downstream from bridge on U.S. Highway 136, 1.0 mi upstream from Shoal Creek, 0.5 mi east of Livonia, and at mile 90.9.

DRAINAGE AREA.--864 mi².

PERIOD OF RECORD.--May 1974 to current year. Occasional discharge measurements were made from October 1962 to May 1974.

REVISED RECORDS.--WDR MO-83-1: 1981.

GAGE.--Water-stage recorder. Datum of gage is 770.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Considerable regulation by Rathbun Lake (station 06903880), 51.0 mi upstream. 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	146	335	69	126	e198	787	84	825	54	276	42	37
2	138	513	63	119	e250	775	83	812	51	464	41	36
3	142	295	61	143	e275	668	76	802	50	452	41	36
4	132	233	62	211	e270	417	74	656	62	441	41	35
5	129	238	75	191	e305	305	71	460	149	436	39	35
6	127	167	705	97	428	291	71	448	351	433	38	34
7	127	135	725	211	684	287	79	387	266	364	38	35
8	90	104	420	262	671	283	97	269	531	148	37	35
9	78	83	251	196	712	270	115	260	584	120	37	36
10	75	75	350	159	624	265	254	255	440	114	37	36
11	64	71	797	154	592	260	576	313	1,540	110	37	35
12	69	66	792	434	608	256	3,860	344	1,690	108	39	35
13	77	62	772	e781	1,850	250	3,140	752	2,200	79	52	36
14	84	59	753	e460	2,510	245	2,440	629	1,230	56	58	39
15	72	58	755	e330	1,650	243	1,070	397	677	54	60	45
16	67	56	752	e310	890	228	638	313	717	53	47	46
17	185	55	751	e280	971	119	513	279	936	51	41	40
18	106	55	657	e275	870	87	441	267	917	51	40	39
19	63	58	444	e270	821	86	400	248	900	50	40	32
20	61	63	441	e268	815	83	370	122	883	50	62	33
21	58	60	373	e265	827	78	455	81	879	49	44	36
22	59	55	e148	e254	818	78	776	73	877	47	39	36
23	61	54	e140	e200	720	88	1,900	68	874	46	37	36
24	64	52	e132	e200	824	93	1,490	63	871	44	37	34
25	61	52	e130	e210	814	102	769	60	787	43	38	33
26	60	52	137	e340	802	109	788	57	480	46	40	36
27	131	54	136	e500	798	102	914	57	450	54	37	36
28	98	55	135	e470	802	92	886	59	379	70	37	42
29	76	63	139	e260	---	86	863	128	213	51	38	39
30	361	65	134	e210	---	85	844	86	518	48	37	41
31	344	---	130	e195	---	87	---	59	---	46	37	---
MEAN	110	111	369	270	800	232	805	311	685	144	41.5	36.8
MAX	361	513	797	781	2,510	787	3,860	825	2,200	464	62	46
MIN	58	52	61	97	198	78	71	57	50	43	37	32
IN.	0.15	0.14	0.49	0.36	0.96	0.31	1.04	0.41	0.89	0.19	0.06	0.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2005, BY WATER YEAR (WY)

	385	417	551	323	524	812	808	873	853	943	582	452
MEAN	385	417	551	323	524	812	808	873	853	943	582	452
MAX	1,764	1,714	2,005	1,797	1,956	2,046	1,898	2,239	1,839	3,923	2,045	2,029
(WY)	(1994)	(1994)	(1983)	(1993)	(1983)	(1993)	(1983)	(1995)	(1980)	(1993)	(1993)	(1993)
MIN	27.2	26.2	19.9	13.6	23.0	47.6	31.1	33.1	33.6	23.6	32.3	29.0
(WY)	(1977)	(1990)	(1977)	(1977)	(1989)	(2000)	(1989)	(2000)	(1988)	(1988)	(1988)	(2002)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

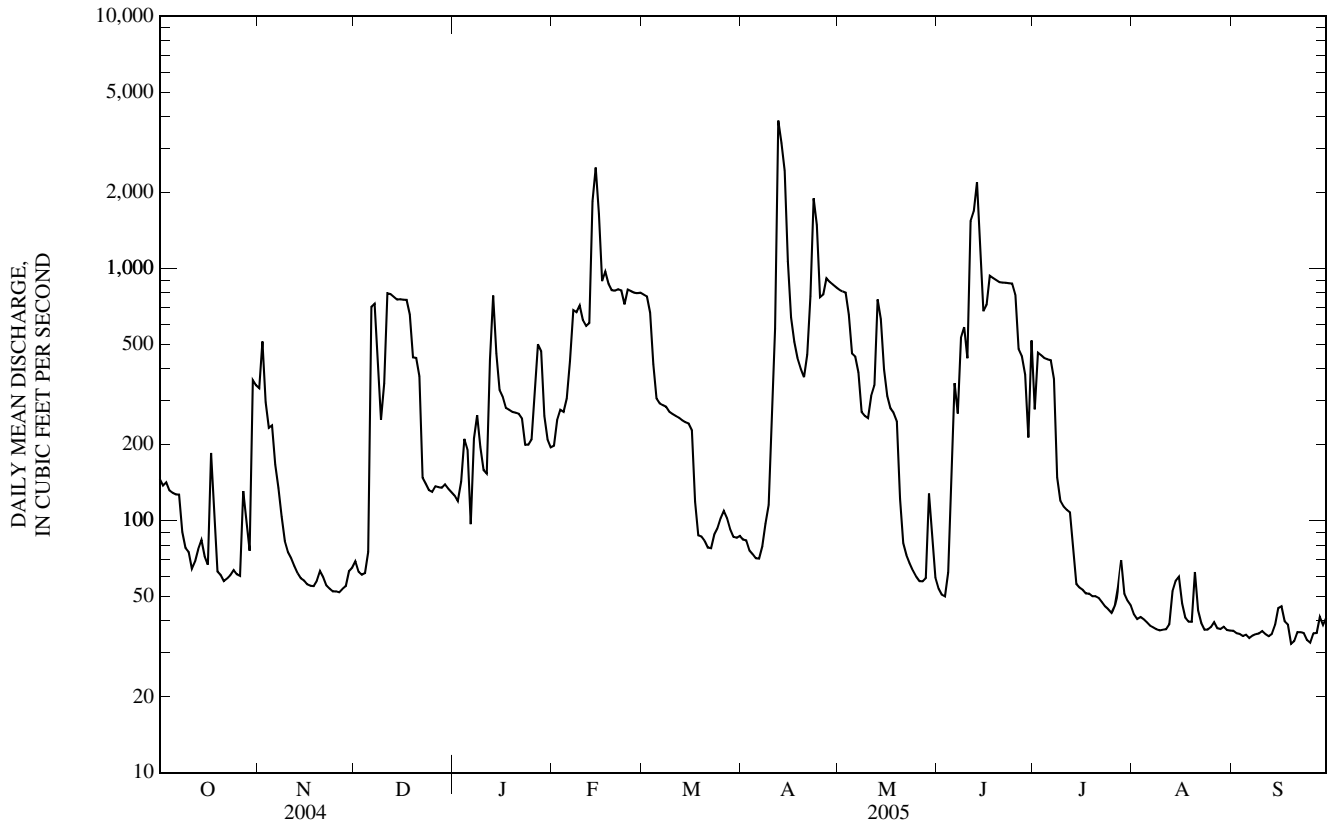
WATER YEARS 1974 - 2005

ANNUAL MEAN	468	321	627
HIGHEST ANNUAL MEAN			1,838
LOWEST ANNUAL MEAN			69.2
HIGHEST DAILY MEAN	4,360	Aug 28	3,860
LOWEST DAILY MEAN	47	May 11,12,17	32
ANNUAL SEVEN-DAY MINIMUM	51	May 7	34
MAXIMUM PEAK FLOW	---		4,390
MAXIMUM PEAK STAGE	---		19.44
INSTANTANEOUS LOW FLOW	---		30
ANNUAL RUNOFF (INCHES)	7.37		5.05
10 PERCENT EXCEEDS	1,110		806
50 PERCENT EXCEEDS	233		132
90 PERCENT EXCEEDS	60		39
			8,960
		Apr 12	13
		Sep 19	13
		Sep 19	13
		Apr 12	9,200
		Apr 12	28.33
		Sep 19	11
			Jan 1, 2003
			9.86
			1,520
			269
			32

e Estimated

CHARITON RIVER BASIN

06904050 CHARITON RIVER AT LIVONIA, MO—Continued



06904500 CHARITON RIVER AT NOVINGER, MO

LOCATION.--Lat 40°14'04", long 92°41'11", on south line of SE 1/4 NE 1/4 sec.28, T.63 N., R.16 W., Adair County, Hydrologic Unit 10280202, on downstream side of center pier of bridge on State Highway 6, 0.6 mi east of Novinger, 1.0 mi downstream from Rye Creek, 2.0 mi upstream from Spring Creek, and at mile 73.1.

DRAINAGE AREA.--1,370 mi².

PERIOD OF RECORD.--October 1930 to September 1952, October 1954 to current year. Prior to February 1931 monthly discharge only, published in WSP 1310.

REVISED RECORDS.--WSP 896: 1939. WSP 1116: 1932(M).

GAGE.--Water-stage recorder. Datum of gage is 737.65 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 20, 1939, nonrecording gage at bridge over old channel, 500 ft east, at the same datum; Dec. 20, 1939, to Sept. 30, 1952, and Oct. 1, 1954, to Aug. 1, 1956, water-stage recorder, supplemented by nonrecording gage, at same site and datum; Aug. 3, 1956, to May 16, 1957, nonrecording gage at present site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Some regulation by Rathbun Lake (Iowa station 06903880). U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 28.6 ft, discharge, 27,000 ft³/s, June 1917.

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	253	1,950	158	224	332	1,010	178	1,110	75	381	55	43
2	210	1,810	155	210	429	970	166	1,060	67	414	50	43
3	211	894	143	296	426	926	155	1,020	68	473	48	42
4	201	904	144	558	465	655	142	943	151	461	49	41
5	191	704	156	515	562	486	135	653	446	454	50	40
6	184	487	2,060	241	661	436	133	592	773	435	45	39
7	188	369	2,030	314	1,770	426	205	550	557	424	43	38
8	262	303	1,150	436	1,270	413	209	405	795	270	42	40
9	171	254	686	383	967	388	193	368	1,490	175	40	41
10	170	229	525	341	784	373	236	346	1,380	157	40	39
11	134	212	1,050	347	714	363	e3,620	499	4,230	147	40	39
12	316	199	1,110	1,560	773	354	e10,500	1,110	3,140	140	41	38
13	350	186	1,060	4,000	3,590	343	e7,920	3,920	6,880	130	66	39
14	220	177	978	1,100	e4,100	331	5,440	1,940	2,890	94	90	45
15	184	172	976	e900	3,730	323	2,760	951	1,470	79	80	52
16	157	168	982	e550	1,960	322	1,540	620	1,060	75	72	63
17	182	164	965	e410	1,690	256	1,160	491	1,210	71	55	53
18	248	161	941	e390	1,420	169	953	432	1,160	67	49	48
19	155	165	629	e350	1,270	156	810	415	1,080	66	49	48
20	147	170	563	e350	1,230	156	748	303	1,030	64	194	45
21	143	168	548	e375	1,250	141	906	185	995	63	117	40
22	142	159	e210	e340	1,180	161	3,520	260	966	61	64	42
23	160	154	e200	e260	1,040	349	5,380	161	941	58	53	42
24	147	153	e198	e250	1,080	410	3,490	124	918	55	49	41
25	146	142	e190	e280	1,070	437	1,690	106	890	52	49	39
26	148	121	194	e680	1,030	357	1,300	95	590	55	50	54
27	274	130	186	e820	1,020	295	1,410	86	481	68	50	48
28	315	132	191	e600	1,050	248	1,310	82	464	73	48	50
29	239	133	197	428	---	217	1,240	92	326	80	48	57
30	858	152	219	320	---	198	1,170	173	484	61	47	49
31	982	---	232	297	---	194	---	92	---	57	44	---
MEAN	248	371	614	585	1,317	383	1,954	619	1,234	170	58.6	44.6
MAX	982	1,950	2,060	4,000	4,100	1,010	10,500	3,920	6,880	473	194	63
MIN	134	121	143	210	332	141	133	82	67	52	40	38
IN.	0.21	0.30	0.52	0.49	1.00	0.32	1.59	0.52	1.00	0.14	0.05	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2005^a, BY WATER YEAR (WY)

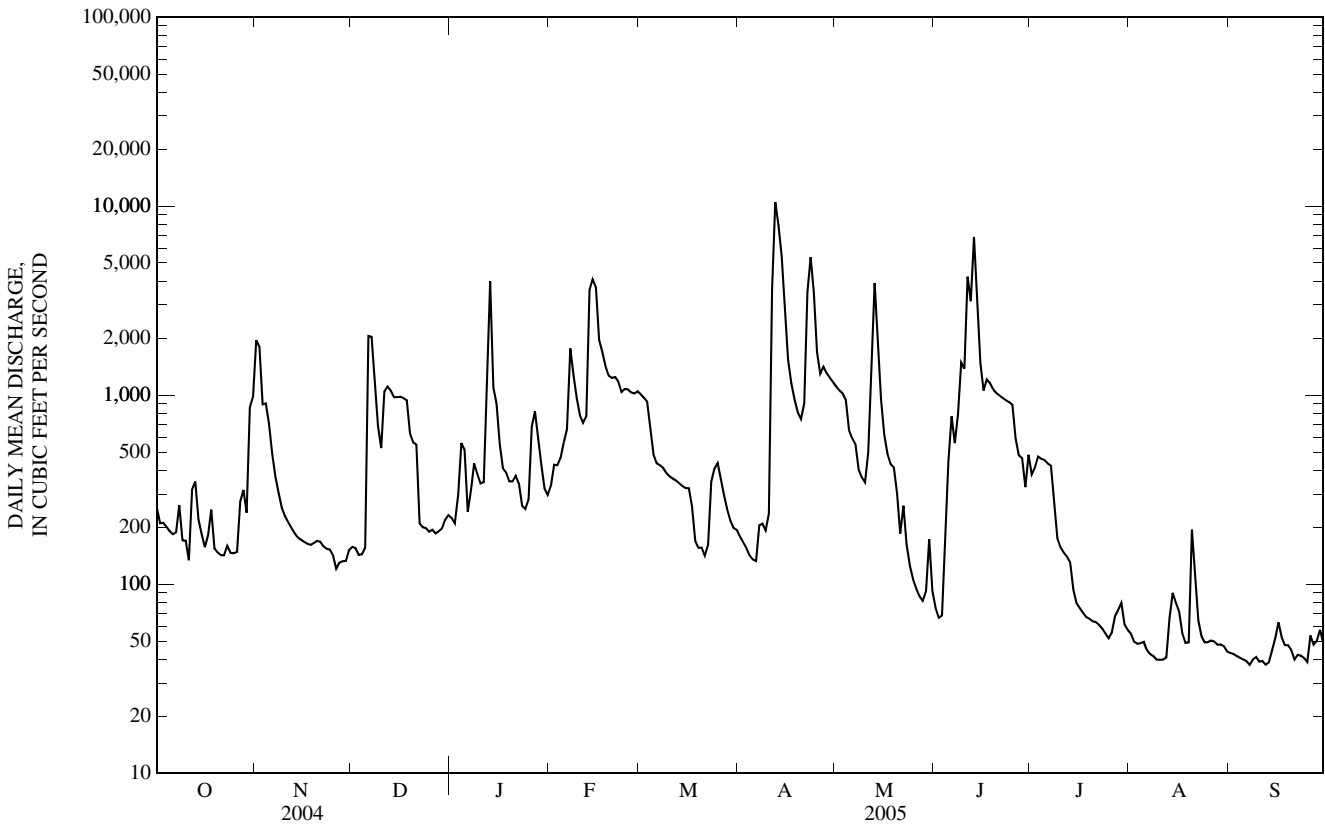
MEAN	704	671	823	539	945	1,501	1,546	1,772	1,343	1,400	767	698
MAX	3,352	2,403	3,318	2,686	2,652	4,105	5,302	5,447	4,482	9,877	2,770	3,232
(WY)	(1974)	(1993)	(1983)	(1993)	(2001)	(1993)	(1973)	(1995)	(2001)	(1993)	(1993)	(1993)
MIN	25.6	30.2	20.0	13.6	28.0	73.8	35.8	43.0	46.1	32.2	28.1	31.8
(WY)	(1972)	(1990)	(1977)	(1977)	(1989)	(2000)	(1989)	(2000)	(1988)	(1970)	(1971)	(2002)

CHARITON RIVER BASIN

06904500 CHARITON RIVER AT NOVINGER, MO—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1970 - 2005 ^a	
ANNUAL MEAN	948		624		1,060	
HIGHEST ANNUAL MEAN					3,299	1993
LOWEST ANNUAL MEAN					107	2000
HIGHEST DAILY MEAN	18,400	Aug 28	10,500	Apr 12	22,900	May 12, 2002
LOWEST DAILY MEAN	66	May 11,12	38	Sep 7,12	11	Aug 1, 1970
ANNUAL SEVEN-DAY MINIMUM	80	May 7	39	Sep 6	12	Jul 26, 1970
MAXIMUM PEAK FLOW	---		Unknown	Apr 12	24,200	May 12, 2002
MAXIMUM PEAK STAGE	---		Unknown	Apr 12	25.71	Jul 24, 1993
INSTANTANEOUS LOW FLOW	---		37	Sep 7,12,13,25	11	1970,1995,2000,2003
ANNUAL RUNOFF (INCHES)	9.42		6.19		10.51	
10 PERCENT EXCEEDS	1,900		1,270		2,270	
50 PERCENT EXCEEDS	426		256		454	
90 PERCENT EXCEEDS	105		49		40	

e Estimated
^a Post-regulation period.



06905500 CHARITON RIVER NEAR PRAIRIE HILL, MO

LOCATION.--Lat 39°32'24", long 92°47'27", in NW ¼ SW ¼ sec.26, T.55 N., R.17 W., Chariton County, Hydrologic Unit 10280202, on right bank on downstream side of road at bridge on State Highway 129, 3.2 mi northwest of Prairie Hill, 13.5 mi upstream from Puzzle Creek, and at mile 19.6.

DRAINAGE AREA.--1,870 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1928 to current year. Prior to Oct. 1, 1953, published as Chariton River near Keytesville (06905600). Prior to May 1929, monthly discharge only, published in WSP 1309.

GAGE.--Water-stage recorder. Datum of gage is 632.05 ft above National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers). Prior to Oct. 1, 1953, nonrecording gage at site 8.2 mi downstream at datum 13.68 ft lower; Oct. 1, 1953, to July 2, 1958, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records fair except for estimated daily discharges, which are poor. Some regulation by Rathbun Lake (Iowa station 06903880), 122 mi upstream, since 1970. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters 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	236	3,350	457	397	466	1,150	291	1,210	245	405	101	67
2	262	4,470	446	419	466	1,100	271	1,160	193	579	93	66
3	224	2,450	409	1,320	558	1,070	249	1,120	177	418	82	67
4	215	2,910	373	2,920	660	1,030	235	1,100	835	553	64	66
5	232	1,920	405	3,570	710	784	220	1,040	776	550	56	65
6	241	1,180	932	1,680	762	603	215	786	610	539	60	63
7	254	836	3,020	748	1,090	535	210	695	943	530	61	61
8	1,140	661	2,950	585	2,220	509	233	651	6,810	522	57	60
9	1,310	557	1,540	667	1,560	493	298	583	7,690	470	53	60
10	487	479	981	872	1,240	472	271	473	2,920	282	51	60
11	320	432	737	873	1,070	449	451	423	9,390	221	48	60
12	288	390	1,060	1,170	1,060	435	14,400	689	4,960	198	48	60
13	779	356	1,150	5,590	5,200	423	14,800	2,330	5,470	188	61	60
14	798	333	1,070	3,740	9,880	412	7,980	5,180	6,080	180	80	60
15	472	320	1,000	1,120	6,160	397	5,020	2,200	2,720	168	97	68
16	355	307	1,010	e605	3,770	388	2,610	1,240	1,540	147	107	86
17	289	304	1,000	e500	2,050	384	1,630	839	1,100	127	105	115
18	278	299	996	e470	1,780	358	1,250	682	1,190	115	99	92
19	348	312	968	e464	1,500	279	1,040	628	1,150	110	95	83
20	311	304	660	e469	1,390	234	955	597	1,060	104	107	75
21	242	297	539	e502	1,400	223	901	519	1,010	102	103	68
22	235	296	e480	e469	1,390	233	1,820	1,020	980	103	227	70
23	305	286	e380	e415	1,300	285	4,410	1,360	956	99	142	76
24	277	345	e320	e404	1,160	474	5,350	629	930	96	104	75
25	249	405	e310	e518	1,170	811	3,050	389	910	99	91	73
26	414	526	e340	699	1,170	803	1,710	304	892	105	81	71
27	977	1,750	e355	853	1,140	627	1,340	260	712	109	76	68
28	662	1,250	e365	1,390	1,140	493	1,420	234	545	106	73	73
29	585	600	338	867	---	e416	1,310	215	519	102	76	74
30	493	449	292	675	---	354	1,240	204	474	104	75	66
31	788	---	368	522	---	319	---	235	---	108	70	---
MEAN	454	946	815	1,145	1,909	534	2,506	935	2,126	243	85.3	70.3
MAX	1,310	4,470	3,020	5,590	9,880	1,150	14,800	5,180	9,390	579	227	115
MIN	215	286	292	397	466	223	210	204	177	96	48	60
IN.	0.28	0.56	0.50	0.71	1.06	0.33	1.50	0.58	1.27	0.15	0.05	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2005, BY WATER YEAR (WY)

	714	798	740	714	1,124	1,861	2,038	2,075	2,012	1,396	727	705
MEAN	714	798	740	714	1,124	1,861	2,038	2,075	2,012	1,396	727	705
MAX	5,695	6,574	5,449	4,516	4,102	5,724	8,981	9,560	14,830	15,980	4,856	5,203
(WY)	(1974)	(1962)	(1983)	(1946)	(1937)	(1973)	(1973)	(1995)	(1947)	(1993)	(1932)	(1993)
MIN	9.59	9.77	13.0	12.9	18.1	37.3	45.9	69.8	25.8	13.4	7.97	13.6
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1957)	(1956)	(2000)	(1934)	(1934)	(1936)	(1953)

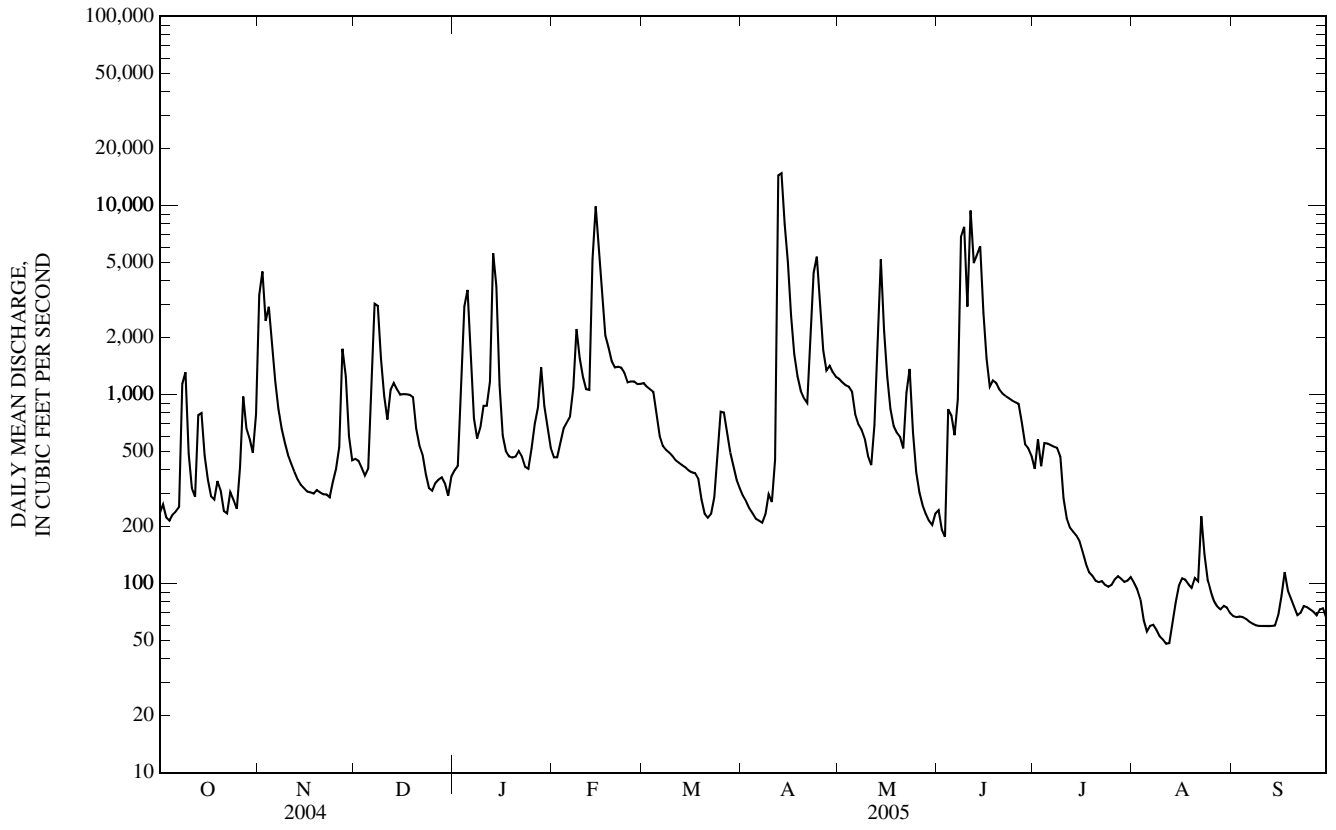
SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1929 - 2005	
ANNUAL MEAN	1,153		968		1,240	
HIGHEST ANNUAL MEAN					4,320	
LOWEST ANNUAL MEAN					159	
HIGHEST DAILY MEAN	21,700		14,800		35,600	
LOWEST DAILY MEAN	59		48		4.6	
ANNUAL SEVEN-DAY MINIMUM	94		54		4.8	
MAXIMUM PEAK FLOW	---		18,900		37,100	
MAXIMUM PEAK STAGE	---		17.59		23.01	
INSTANTANEOUS LOW FLOW	---		46		4.6	
ANNUAL RUNOFF (INCHES)	8.40		7.03		9.01	
10 PERCENT EXCEEDS	2,350		1,860		3,040	
50 PERCENT EXCEEDS	624		470		356	
90 PERCENT EXCEEDS	124		75		40	

e Estimated

CHARITON RIVER BASIN

06905500 CHARITON RIVER NEAR PRAIRIE HILL, MO—Continued



06905500 CHARITON RIVER NEAR PRAIRIE HILL, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1962 to June 1963, August 1967 to July 1975, January 1978 to September 1986, November 1992 to current year.

REMARKS.--National Stream-Quality Accounting Network station January 1978 to September 1986 and an Ambient Water-Quality Monitoring Network station 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, μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	
NOV 08...	1340	Environmental	646	9.8	91	7.6	411	11.2	200	60.5	12.1	5.52	
JAN 25...	0845	Environmental	e518	13.3	94	7.3	405	.1	--	--	--	--	
MAR 07...	1405	Environmental	535	11.6	106	7.8	405	10.1	--	--	--	--	
MAY 03...	1130	Blank	--	--	--	--	--	--	--	<.02	E.005n	<.16	
MAY 03...	1200	Environmental	1,110	10.5	99	8.2	339	12.2	160	48.3	10.4	5.11	
JUL 11...	1330	Environmental	219	8.0	108	8.1	350	29.4	--	--	--	--	
SEP 06...	1330	Environmental	63	8.5	115	8.1	425	30.2	--	--	--	--	
Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd, mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
NOV 08...	9.71	139	140	170	<1	8.47	.2	55.7	268	60	.63	<.04	.30
JAN 25...	--	--	--	--	--	--	--	--	--	28	.98	.15	.40
MAR 07...	--	--	--	--	--	--	--	--	--	50	.51	<.04	.36
MAY 03...	<.20	--	--	--	--	<.20	<.1	<.2	<10	<10	<.10	E.03n	<.06
MAY 03...	8.62	118	118	144	<1	8.04	.2	39.7	212	146	.91	<.04	.37
JUL 11...	--	--	--	--	--	--	--	--	--	121	.85	<.04	<.06
SEP 06...	--	--	--	--	--	--	--	--	--	35	.68	<.04	<.06
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, col/100 mL (31633)	Fecal coliform, M-FC col/100 mL (31625)	Aluminum, water, fltrd, μ g/L (01106)	Aluminum, water, unfltrd recoverable, μ g/L (01105)	Arsenic water, fltrd, μ g/L (01000)	Cadmium water, fltrd, μ g/L (01025)	Cadmium water, unfltrd μ g/L (01027)	Copper, water, fltrd, μ g/L (01040)	Iron, water, fltrd, μ g/L (01046)
NOV 08...	E.004n	.03	.06	.19	66	310	E1n	652	1.1	<.04	.06	1.9	9
JAN 25...	E.006n	<.02	E.03n	.11	90	120k	--	--	--	--	--	--	--
MAR 07...	.010	<.02	<.04	.07	8k	7k	--	--	--	--	--	--	--
MAY 03...	<.008	<.02	<.04	<.04	--	--	<.2	E1n	<.2	<.04	<.04	<.4	<.6
MAY 03...	<.008	<.02	E.02n	.26	100	140	E1n	1,750	.9	<.04	.10	1.6	E4n
JUL 11...	<.008	E.01n	.04	.21	150	210	--	--	--	--	--	--	--
SEP 06...	<.008	E.02n	E.02n	.11	38k	32k	--	--	--	--	--	--	--

06905500 CHARITON RIVER NEAR PRAIRIE HILL, 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 08...	<.08	1.31	26.2	<.01	.8	.8	6
JAN 25...	--	--	--	--	--	--	--
MAR 07...	--	--	--	--	--	--	--
MAY 03...	<.08	<.06	<.6	<.01	<.4	E.4n	<2
JUL 11...	<.08	3.33	6.6	E.01n	.6	E.5n	12
SEP 06...	--	--	--	--	--	--	--

Remark codes used in this table:

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

Value qualifier codes used in this table:

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

06905725 MUSSEL FORK NEAR MYSTIC, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 40°09'38", long 92°53'25", in NE ¼ NW ¼ SW ¼ sec.23, T.62 N., R.18 W., Sullivan County, Hydrologic Unit 10280202, approximately 2 mi east of Mystic on the left bank on upstream side of bridge on County Highway H.

DRAINAGE AREA.--24.0 mi².

PERIOD OF RECORD.--November 1997 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 ₃ (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 28...	0910	Environmental	2.0	4.9	48	7.7	406	14.0	--	--	--	--
NOV 17...	0955	Environmental	1.8	10.1	91	8.0	448	11.0	180	52.9	12.2	5.51
DEC 17...	1330	Environmental	2.4	14.1	97	8.0	414	1.0	--	--	--	--
JAN 26...	1455	Environmental	18	15.0	106	8.0	333	.5	130	37.7	8.31	6.19
FEB 08...	1300	Environmental	22	13.5	96	7.9	273	.5	--	--	--	--
MAR 17...	0850	Environmental	2.9	11.8	93	8.1	466	5.5	--	--	--	--
MAR 17...	0851	Blank	--	--	--	--	--	--	--	--	--	--
APR 07...	1100	Environmental	2.9	8.4	80	7.9	442	13.0	--	--	--	--
MAY 11...	0920	Environmental	11	5.6	64	7.4	472	20.0	200	56.4	13.6	4.90
JUN 29...	0835	Environmental	1.7	5.5	70	7.7	418	25.0	--	--	--	--
JUL 14...	0905	Environmental	.02	4.3	52	7.6	452	23.0	180	53.8	12.0	6.71
AUG 18...	1050	Environmental	.08	8.2	96	8.0	420	24.0	--	--	--	--
SEP 21...	0830	Environmental	.05	4.6	48	7.8	315	17.5	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC, 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 28...	--	--	--	--	--	--	--	--	--	<10	.91	<.04	<.06
NOV 17...	18.5	171	171	209	<1	16.8	.1	46.3	280	<10	.57	<.04	.10
DEC 17...	--	--	--	--	--	--	--	--	--	<10	.52	E.04n	.19
JAN 26...	13.5	96	97	118	<1	15.3	.1	31.5	198	46	1.4	.37	.40
FEB 08...	--	--	--	--	--	--	--	--	--	65	1.7	.18	.90
MAR 17...	--	--	--	--	--	--	--	--	--	<10	1.0	<.04	<.06
MAR 17...	--	--	--	--	--	--	--	--	--	<10	<.10	<.04	<.06
APR 07...	--	--	--	--	--	--	--	--	--	<10	.59	<.04	<.06
MAY 11...	19.3	168	169	206	<1	13.5	.2	46.3	280	10	.67	<.04	<.06
JUN 29...	--	--	--	--	--	--	--	--	--	21	.85	<.04	<.06
JUL 14...	20.9	164	165	201	<1	18.6	.3	34.3	270	<10	.68	.07	<.06
AUG 18...	--	--	--	--	--	--	--	--	--	22	1.8	<.04	E.04n
SEP 21...	--	--	--	--	--	--	--	--	--	37	1.5	<.04	<.06

06905725 MUSSEL FORK NEAR MYSTIC, MO—Continued

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

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7µ MF col/ 100 mL (31625)	Alum- inum, water, fltrd, µg/L (01106)	Alum- inum, water, unfltrd recover- able, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Cadmium water, fltrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)
OCT 28...	<.008	.04	.06	.14	480	140k	--	--	--	--	--	--	--
NOV 17...	E.004n	<.02	<.04	.06	60k	73k	2	213	.9	<.04	E.03n	2.0	20
DEC 17...	<.008	<.02	<.04	.05	7k	31k	--	--	--	--	--	--	--
JAN 26...	.019	.02	.06	.22	200k	630	2	641	.7	<.04	.05	4.5	29
FEB 08...	.009	.02	.05	.18	490k	230k	--	--	--	--	--	--	--
MAR 17...	<.008	<.02	<.04	.13	8k	10k	--	--	--	--	--	--	--
MAR 17...	<.008	<.02	<.04	<.04	--	--	--	--	--	--	--	--	--
APR 07...	<.008	<.02	<.04	.06	810	1,000	--	--	--	--	--	--	--
MAY 11...	<.008	<.02	E.03n	.07	120k	92k	2	99	1.2	<.04	E.04n	1.5	39
JUN 29...	E.004n	<.02	<.04	.08	260	290	--	--	--	--	--	--	--
JUL 14...	<.008	<.02	<.04	.04	120	100	E1n	160	1.2	E.03n	.05	1.6	7
AUG 18...	.009	<.02	<.04	.12	1,900k	2,500k	--	--	--	--	--	--	--
SEP 21...	E.004n	<.02	<.04	.23	920	1,100	--	--	--	--	--	--	--

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)
OCT 28...	--	--	--	--	--	--	--
NOV 17...	<.08	.30	387	<.01	.5	1.8	E1n
DEC 17...	--	--	--	--	--	--	--
JAN 26...	.13	.87	319	<.01	<.4	3.1	4
FEB 08...	--	--	--	--	--	--	--
MAR 17...	--	--	--	--	--	--	--
MAR 17...	--	--	--	--	--	--	--
APR 07...	--	--	--	--	--	--	--
MAY 11...	<.08	.26	245	<.01	.6	E.6n	E1n
JUN 29...	--	--	--	--	--	--	--
JUL 14...	<.08	.39	320	<.01	.6	.7	E1n
AUG 18...	--	--	--	--	--	--	--
SEP 21...	--	--	--	--	--	--	--

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

06906000 MUSSEL FORK NEAR MUSSELFORK, MO

LOCATION.--Lat 39°31'25", long 92°56'59", in SW ¼ SW ¼ SE ¼ sec.32, T.55 N., R.18 W., Chariton County, Hydrologic Unit 10280202, on downstream side of pier of bridge on State Highway 5, 4.5 mi southwest of Musselfork, and 1.5 mi upstream from Long Branch.

DRAINAGE AREA.--267 mi².

PERIOD OF RECORD.--October 1948 to December 1951, October 1962 to February 1990, December 2002 to current year. Prior to Jan. 1, 1952, nonrecording gage at site 100 ft upstream at same datum; Oct. 1, 1962 to March 1, 1990, water-stage recorder at same site and datum; March 1, 1990 to Aug. 26, 1994, stage only station at same site and datum.

GAGE.--Water-stage recorder. Datum of gage is 639.25 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

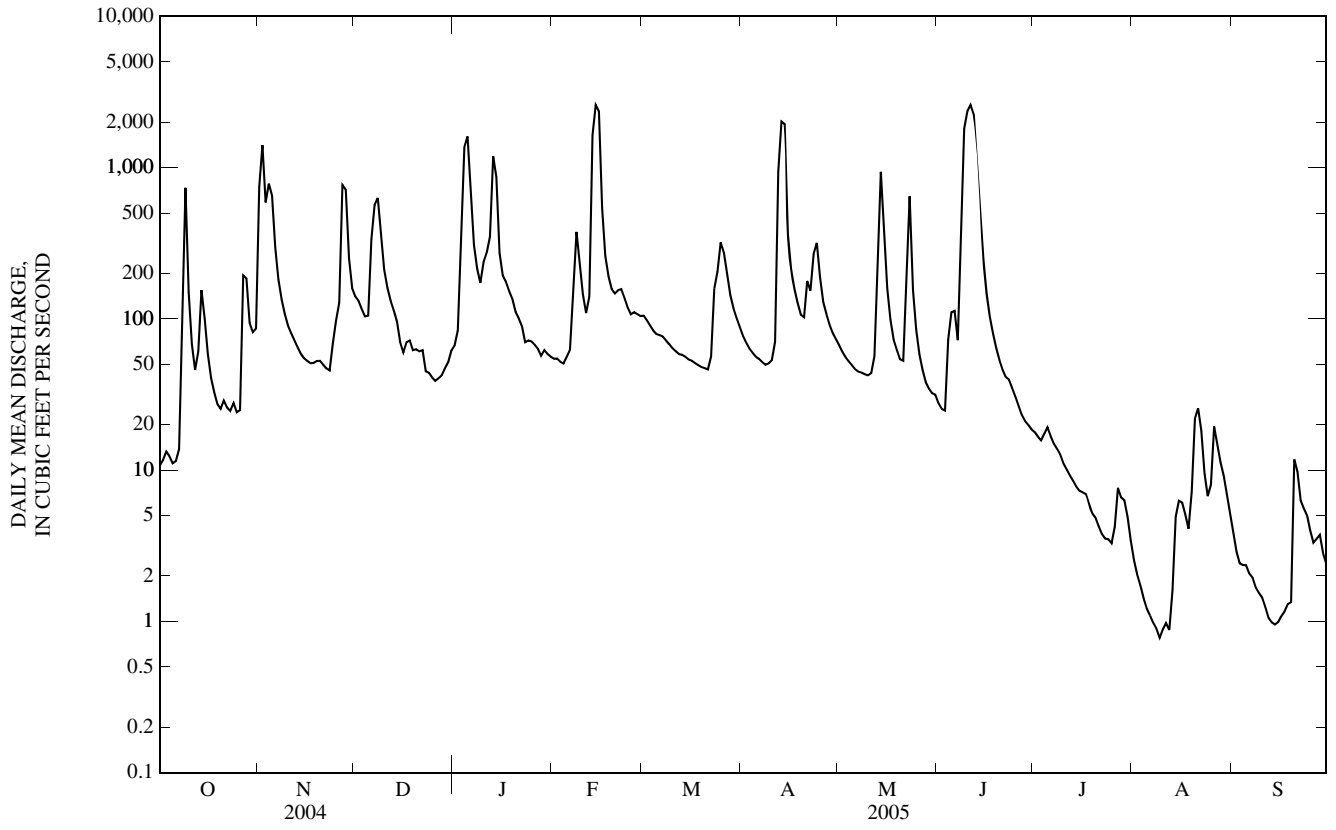
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	748	141	67	55	105	77	67	28	18	2.5	3.8
2	12	1,410	132	84	55	98	69	61	25	17	2.0	2.9
3	13	588	116	467	52	91	64	56	25	16	1.7	2.4
4	12	782	104	1,360	51	84	60	52	73	17	1.4	2.4
5	11	653	105	1,610	56	79	56	49	111	19	1.2	2.4
6	11	297	337	765	62	78	54	46	113	17	1.1	2.1
7	14	181	567	e308	145	76	52	45	72	15	0.98	1.9
8	99	135	630	e215	376	72	50	44	454	14	0.89	1.7
9	736	107	358	e173	238	68	51	43	1,810	13	0.78	1.5
10	150	90	211	237	145	64	54	42	2,360	11	0.88	1.4
11	68	80	161	274	e109	61	71	44	2,590	10	0.98	1.2
12	46	72	132	350	140	58	944	57	2,240	9.2	0.88	1.1
13	61	65	114	1,190	1,640	58	2,020	229	1,210	8.5	1.6	0.99
14	155	59	96	868	2,600	56	1,940	937	610	7.8	4.9	0.95
15	100	55	e70	e272	2,360	54	365	373	249	7.3	6.3	0.99
16	58	53	e60	e194	542	53	214	160	148	7.1	6.1	1.1
17	41	51	e70	e176	260	51	160	99	103	7.0	5.1	1.2
18	33	51	e72	e153	191	49	129	73	80	6.0	4.1	1.3
19	27	53	e62	e136	157	48	107	63	64	5.2	7.2	1.3
20	25	53	e63	112	147	47	102	54	54	4.9	22	12
21	29	50	e61	101	155	46	178	53	46	4.3	26	9.8
22	26	47	e62	89	157	56	154	167	41	3.8	18	6.3
23	25	46	e45	e70	138	158	268	645	40	3.5	9.5	5.6
24	28	69	e44	e72	119	205	318	155	35	3.5	6.7	5.0
25	24	97	41	71	107	321	188	85	31	3.3	8.0	4.0
26	25	128	39	67	111	275	130	58	27	4.2	19	3.3
27	194	767	41	63	108	196	108	46	23	7.6	15	3.5
28	185	713	42	57	105	145	91	38	21	6.6	11	3.7
29	94	252	47	62	---	118	80	35	20	6.3	9.2	2.8
30	82	160	52	59	---	101	73	32	19	4.9	6.7	2.4
31	86	---	62	56	---	88	---	32	---	3.4	5.0	---
MEAN	80.0	264	133	315	371	98.7	274	127	424	9.08	6.67	3.03
MAX	736	1,410	630	1,610	2,600	321	2,020	937	2,590	19	26	12
MIN	11	46	39	56	51	46	50	32	19	3.3	0.78	0.95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2005, BY WATER YEAR (WY)

MEAN	156	158	171	141	234	303	433	323	303	225	82.4	147
MAX	1,246	976	1,335	729	1,453	1,370	2,585	1,538	1,225	3,029	573	1,295
(WY)	(1986)	(1986)	(1983)	(1965)	(1982)	(1973)	(1973)	(1973)	(1981)	(1981)	(2004)	(1973)
MIN	0.04	1.05	0.61	0.44	0.89	5.84	18.0	9.77	2.37	0.94	0.54	0.59
(WY)	(1964)	(1977)	(1964)	(1964)	(1964)	(2003)	(1989)	(1980)	(1988)	(2003)	(2003)	(1976)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1949 - 2005
ANNUAL MEAN	179	173	230
HIGHEST ANNUAL MEAN			719
LOWEST ANNUAL MEAN			22.9
HIGHEST DAILY MEAN	3,490	Aug 30	18,300
LOWEST DAILY MEAN	10	Jul 30-Aug 2	0.00
ANNUAL SEVEN-DAY MINIMUM	10	Jul 28	0.00
MAXIMUM PEAK FLOW	---	2,930	23,100
MAXIMUM PEAK STAGE	---	20.16	22.11
INSTANTANEOUS LOW FLOW	---	0.71	0.00
10 PERCENT EXCEEDS	416	353	500
50 PERCENT EXCEEDS	51	58	29
90 PERCENT EXCEEDS	13	3.5	2.5

e Estimated



06906150 LONG BRANCH CREEK AT ATLANTA, MO

LOCATION.--Lat 39°53'50", long 92°29'36", in SE ¼ NW ¼ NW ¼ sec.20, T.59N., R.14W., Macon County, Hydrologic Unit 10280203, at right upstream end of bridge on Marion Street, 0.65 mi east of Highway RA, and 0.3 mi west of Atlanta.

DRAINAGE AREA.--23.0 mi².

PERIOD OF RECORD.--July 1995 to current year. Published as "near Atlanta" 1995 to 2000.

GAGE.--Water-stage recorder. Datum of gage is 814.75 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	0.20	298	9.9	4.2	2.2	5.7	4.6	1.5	0.82	0.33	0.00	0.10
2	0.22	165	6.9	16	2.2	4.9	4.3	1.3	0.78	0.28	0.00	0.08
3	0.24	34	4.1	200	e2.2	6.7	4.2	1.2	0.75	0.35	0.00	0.06
4	0.24	206	2.9	218	2.3	7.1	4.2	1.2	17	0.33	0.00	0.06
5	0.21	38	4.1	116	2.4	5.9	4.0	1.1	21	0.22	0.00	0.04
6	0.17	7.9	84	e33	3.0	4.6	4.0	1.1	4.4	0.15	0.00	0.02
7	0.25	3.5	93	21	19	4.7	4.0	1.1	5.0	0.10	0.00	0.01
8	63	2.2	54	7.3	24	5.1	3.8	1.1	132	0.08	0.00	0.01
9	49	1.8	16	6.7	e6.5	3.7	3.7	1.1	153	0.06	0.00	0.01
10	2.7	1.6	9.6	14	e5.5	3.3	3.5	1.1	30	0.05	0.00	0.00
11	1.1	1.2	7.1	18	e4.5	3.2	18	1.3	177	0.05	0.00	0.00
12	28	0.84	6.0	96	e5.0	3.2	546	3.1	56	0.04	0.00	0.00
13	183	0.74	5.0	308	378	3.0	346	5.9	29	0.03	0.00	0.01
14	13	0.70	e4.2	e36	289	2.9	27	7.4	14	0.03	0.02	0.02
15	2.4	0.66	3.5	e18	37	2.8	7.1	3.5	2.0	0.02	0.03	0.04
16	1.3	0.65	3.4	e8.9	16	2.8	4.4	2.0	1.1	0.01	0.02	0.04
17	0.93	0.66	3.4	3.9	9.9	2.7	3.4	2.1	0.75	0.00	0.02	0.04
18	0.67	0.72	3.3	3.4	7.8	2.8	2.6	2.1	0.55	0.00	0.02	0.34
19	0.51	0.75	e3.1	e3.4	6.7	2.8	2.2	1.4	0.44	0.00	0.02	0.24
20	0.63	0.74	2.8	e3.4	7.8	2.8	2.0	1.2	0.37	0.00	0.04	0.15
21	0.76	0.68	2.6	e3.2	9.4	2.8	1.8	1.2	0.30	0.00	0.03	0.10
22	0.81	0.63	2.4	3.0	8.7	3.6	42	32	0.27	0.00	0.02	0.07
23	6.1	0.63	2.2	2.2	7.0	8.8	49	9.0	0.25	0.00	0.04	0.08
24	4.2	0.75	2.3	2.1	6.2	23	12	3.0	0.21	0.00	0.04	0.07
25	1.4	0.81	2.5	2.2	5.7	36	4.0	1.7	0.18	0.00	0.05	0.06
26	40	1.2	2.3	2.4	5.3	18	2.8	1.3	0.14	0.00	0.09	0.07
27	197	103	2.1	e2.4	5.1	11	2.3	1.1	0.12	0.00	0.08	0.06
28	18	53	2.2	e2.2	6.0	8.3	2.0	0.94	0.10	0.00	0.09	0.05
29	6.1	7.1	2.3	2.0	---	8.6	1.8	0.83	0.74	0.00	0.11	0.05
30	10	4.9	2.6	2.0	---	7.8	1.7	0.80	0.44	0.00	0.07	0.04
31	14	---	3.3	2.1	---	6.5	---	0.78	---	0.00	0.12	---
MEAN	20.8	31.3	11.4	37.5	31.6	6.94	37.3	3.05	21.6	0.07	0.03	0.06
MAX	197	298	93	308	378	36	546	32	177	0.35	0.12	0.34
MIN	0.17	0.63	2.1	2.0	2.2	2.7	1.7	0.78	0.10	0.00	0.00	0.00
IN.	1.05	1.52	0.57	1.88	1.43	0.35	1.81	0.15	1.05	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2005, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
MEAN	12.0	11.5	10.6	17.3	27.8	21.9	34.9	50.9	20.6	8.77	9.54	3.14
MAX	87.7	68.9	54.8	61.7	84.1	81.8	86.7	191	71.0	60.9	56.8	20.2
(WY)	(1999)	(1999)	(2004)	(1999)	(1997)	(1998)	(1999)	(2002)	(1998)	(1998)	(2004)	(2003)
MIN	0.01	0.02	0.01	0.02	1.26	0.98	0.63	0.54	0.97	0.07	0.02	0.02
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2000)	(2000)	(2002)	(2005)	(2003)	(2002)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

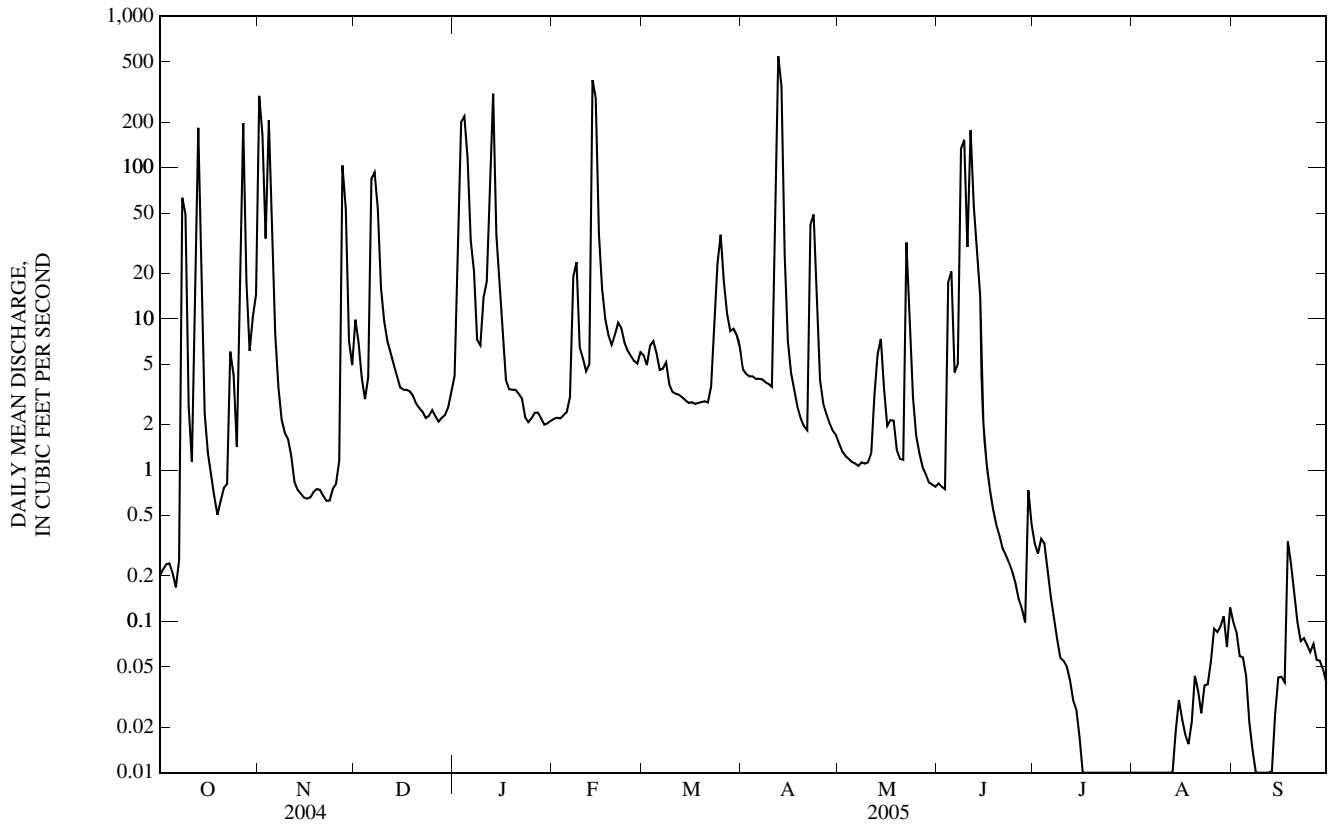
WATER YEARS 1995 - 2005

ANNUAL MEAN	16.6	16.6	18.9
HIGHEST ANNUAL MEAN			37.0
LOWEST ANNUAL MEAN			1.88
HIGHEST DAILY MEAN	570	Aug 28	546
LOWEST DAILY MEAN	0.06	Aug 1	0.00
ANNUAL SEVEN-DAY MINIMUM	0.11	Jul 28	0.00
MAXIMUM PEAK FLOW	---		641
MAXIMUM PEAK STAGE	---		10.76
INSTANTANEOUS LOW FLOW	---		0.00
ANNUAL RUNOFF (INCHES)	9.83		9.81
10 PERCENT EXCEEDS	33		29
50 PERCENT EXCEEDS	1.8		2.2
90 PERCENT EXCEEDS	0.31		0.02

e Estimated

CHARITON RIVER BASIN

06906150 LONG BRANCH CREEK AT ATLANTA, MO—Continued



06906190 LONG BRANCH RESERVOIR NEAR MACON, MO

LOCATION.--Lat 39°45'01", long 92°30'25", in NW ¼ sec.10, T.57 N., R.14 W., Macon County, Hydrologic Unit 10280203, in Administration Building at left end of dam on East Fork Little Chariton River, 2.0 mi west of junction of U.S. Highways 63 and 36 in Macon, and 2.0 mi below confluence with Long Branch.

DRAINAGE AREA.--109 mi².

PERIOD OF RECORD.--September 1978 to current year. Contents published 1982 to current year. Records collected at same site since 1978 are available from the U.S. Army Corps of Engineers.

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

REMARKS.--Lake is formed by a rolled earthfill type dam. Closure began on Sept. 3, 1976. Storage began on Aug. 2, 1978. An uncontrolled limited service type spillway, 50 ft wide, is located at the right abutment. Capacity of surcharge pool 98,590 ac-ft (elevation 801.1 ft to 820.7 ft); of flood control pool 30,600 ac-ft (elevation 791.1 ft to 801.0 ft); and of multipurpose pool 34,640 ac-ft (elevation 751.1 ft to 791.0 ft). Lake is used for flood control, water supply, water-quality control and recreation. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 70,500 ac-ft, May 13, 2002, elevation, 802.58 ft; minimum, 14,300 ac-ft, Dec. 5, 1980, elevation, 780.21 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 41,300 ac-ft, June 14, elevation, 793.74 ft; minimum, 28,800 ac-ft, Sept. 30, elevation, 788.64 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	791.17	791.81	791.15	790.25	791.48	792.14	791.02	791.97	791.14	792.23	789.98	789.23
2	791.16	792.50	791.07	790.31	791.58	792.06	790.99	791.90	791.09	792.18	789.93	789.20
3	791.12	792.63	790.96	790.36	791.59	791.99	790.94	791.82	791.04	792.10	789.86	789.18
4	791.10	792.83	790.85	791.12	791.56	791.93	790.91	791.77	791.10	792.12	789.81	789.15
5	791.02	793.09	790.75	791.65	791.51	791.87	790.85	791.71	791.25	792.15	789.81	789.13
6	790.99	793.06	790.74	791.94	791.46	791.81	790.85	791.67	791.25	791.77	789.75	789.10
7	790.97	793.00	790.90	791.96	791.49	791.78	790.84	791.61	791.21	791.34	789.70	789.07
8	791.04	792.89	791.05	791.94	791.55	791.71	790.79	791.55	791.82	791.29	789.47	789.05
9	791.30	792.78	791.04	791.91	791.59	791.64	790.75	791.55	792.69	791.22	789.32	789.03
10	791.39	792.67	790.97	791.91	791.57	791.57	790.71	791.51	792.92	791.17	789.22	789.00
11	791.39	792.64	790.86	791.93	791.53	791.52	790.71	791.47	793.14	791.11	789.19	788.97
12	791.37	792.51	790.75	791.97	791.49	791.47	791.31	791.52	793.63	791.06	789.15	788.94
13	791.47	792.41	790.65	792.48	791.67	791.42	792.70	791.53	793.72	791.00	789.14	788.91
14	791.69	792.31	790.48	792.88	792.83	791.37	793.08	791.54	793.71	790.95	789.21	788.92
15	791.69	792.23	790.40	792.83	793.22	791.30	793.02	791.55	793.60	790.79	789.28	788.90
16	791.63	792.14	790.37	792.73	793.18	791.26	792.93	791.51	793.46	790.74	789.30	788.91
17	791.29	792.08	790.39	792.64	793.10	791.19	792.83	791.45	793.33	790.68	789.31	788.87
18	791.25	792.02	790.39	792.53	793.00	791.15	792.72	791.40	793.21	790.62	789.27	788.84
19	791.27	791.97	790.40	792.39	792.88	791.13	792.62	791.37	793.08	790.58	789.31	788.86
20	791.25	791.84	790.35	792.26	792.79	791.08	792.53	791.34	792.98	790.51	789.39	788.85
21	791.23	791.71	790.36	792.19	792.73	791.02	792.46	791.29	792.89	790.46	789.36	788.82
22	791.21	791.58	790.36	792.13	792.65	791.01	792.37	791.45	792.81	790.41	789.35	788.79
23	791.26	791.43	790.35	792.05	792.55	791.05	792.45	791.51	792.72	790.35	789.32	788.82
24	791.25	791.35	790.31	791.99	792.47	791.00	792.44	791.50	792.64	790.29	789.29	788.81
25	791.23	791.21	790.30	791.95	792.39	791.04	792.37	791.45	792.58	790.23	789.30	788.80
26	791.19	791.07	790.28	791.90	792.34	791.12	792.32	791.42	792.52	790.17	789.30	788.78
27	791.44	791.12	790.27	791.85	792.24	791.13	792.25	791.37	792.45	790.24	789.29	788.75
28	791.67	791.32	790.25	791.79	792.22	791.12	792.17	791.32	792.40	790.17	789.29	788.72
29	791.67	791.31	790.25	791.75	---	791.09	792.09	791.26	792.32	790.11	789.29	788.72
30	791.65	791.23	790.24	791.49	---	791.03	792.05	791.24	792.24	790.06	789.28	788.67
31	791.64	---	790.24	791.37	---	791.05	---	791.19	---	790.02	789.26	---
MAX	791.69	793.09	791.15	792.88	793.22	792.14	793.08	791.97	793.72	792.23	789.98	789.23
MIN	790.97	791.07	790.24	790.25	791.46	791.00	790.71	791.19	791.04	790.02	789.14	788.67
(-)	35,800	34,800	32,400	35,100	37,200	34,300	36,800	34,700	37,300	31,900	30,200	28,900
(=)	+1,100	-1,000	-2,400	+2,700	+2,100	-2,900	+2,500	-2,100	+2,600	-5,400	-1,700	-1,300

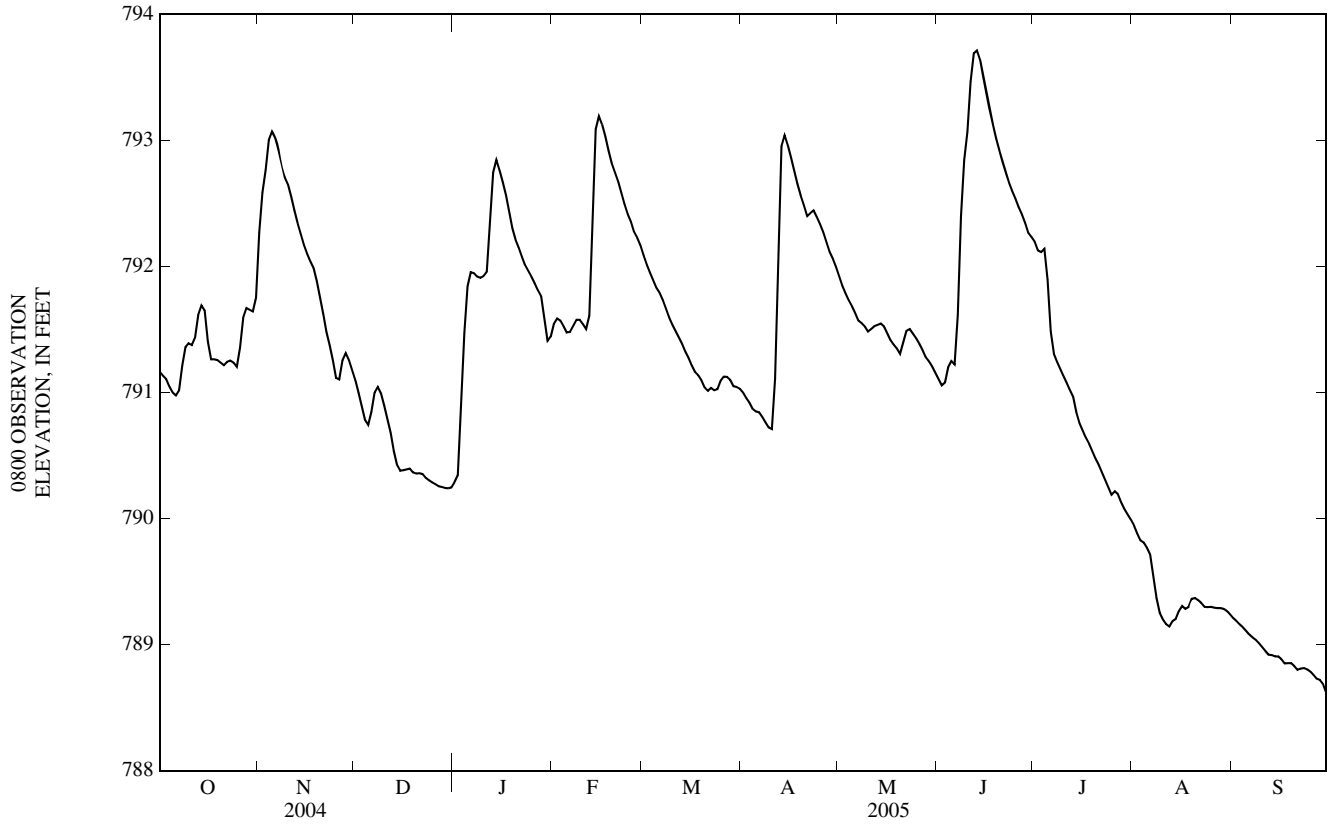
CAL YR 2004.... -2,500

WTR YR 2005.... -5,800

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

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

06906190 LONG BRANCH RESERVOIR NEAR MACON, MO—Continued



06906200 EAST FORK LITTLE CHARITON RIVER NEAR MACON, MO

LOCATION.--Lat 39°45'05", long 92°31'08", in NW 1/4 NW 1/4 NW 1/4 sec.18, T.57 N., R.14 W., Macon County, Hydrologic Unit 10280203, on right bank 250 ft downstream from Long Branch Lake and 3.0 mi west of Macon.

DRAINAGE AREA.--112 mi².

PERIOD OF RECORD.--September 1971 to current year. Partial-record station May 1970 to August 1971.

GAGE.--Water-stage recorder. Datum of gage is 741.43 ft above National Geodetic Vertical Datum of 1929. Sept. 8, 1971, to Aug. 1, 1985, water-stage recorder at site 400 ft downstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Complete regulation by Long Branch Reservoir (06906190), 250 ft upstream. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,700 ft³/s, Apr. 21, 1973; gage height, 20.60 ft.

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	52	107	176	11	65	124	49	104	49	73	44	8.3
2	52	158	175	11	63	113	49	92	49	71	44	8.4
3	51	160	175	28	62	103	48	83	48	68	44	8.6
4	51	172	175	53	60	94	48	78	48	67	44	8.5
5	51	180	176	69	59	84	48	73	48	65	44	8.3
6	51	174	176	81	58	75	48	69	48	64	44	8.3
7	51	166	177	83	59	73	48	67	57	57	44	8.4
8	51	155	176	81	61	68	48	65	100	53	44	8.4
9	51	145	176	78	61	65	48	64	170	51	44	8.4
10	51	135	176	79	60	63	49	62	192	50	24	8.2
11	51	128	175	81	59	60	50	61	226	49	8.1	8.1
12	50	117	173	100	58	58	82	61	262	49	8.3	8.3
13	53	106	173	171	103	56	213	61	275	48	8.4	8.4
14	56	97	121	200	215	54	241	62	267	48	e8.4	8.3
15	54	103	47	195	244	52	234	60	255	47	e8.4	8.3
16	52	97	24	186	237	51	225	58	239	47	e8.4	8.2
17	50	68	7.4	177	227	50	214	56	220	47	8.5	8.4
18	50	60	11	170	216	49	202	55	205	46	8.5	8.5
19	20	124	11	160	206	48	190	54	189	45	8.6	8.5
20	2.6	181	11	144	198	47	181	53	175	45	8.5	8.6
21	2.5	174	11	134	190	48	172	52	160	45	8.4	8.3
22	30	179	11	126	182	47	167	64	147	45	8.4	8.6
23	48	184	11	113	173	47	169	56	131	44	8.4	8.7
24	47	182	11	102	165	47	168	56	115	44	8.5	8.7
25	46	178	11	93	156	49	161	54	101	44	8.3	8.7
26	48	175	11	85	148	50	155	53	90	43	8.4	8.4
27	55	182	11	79	139	51	146	52	82	43	8.3	8.6
28	63	181	11	75	134	50	136	51	78	43	8.4	8.6
29	63	180	11	72	---	50	127	50	77	44	8.6	8.6
30	63	178	11	69	---	50	117	49	76	43	8.3	8.6
31	62	---	11	67	---	50	---	49	---	43	8.3	---
MEAN	47.7	148	84.9	102	131	62.1	128	62.1	139	50.7	19.2	8.44
MAX	63	184	177	200	244	124	241	104	275	73	44	8.7
MIN	2.5	60	7.4	11	58	47	48	49	48	43	8.1	8.1
IN.	0.49	1.47	0.87	1.05	1.21	0.64	1.27	0.64	1.39	0.52	0.20	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2005^a, BY WATER YEAR (WY)

	MEAN	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	53.0	63.5	72.8	46.9	58.1	106	123	178	126	112	64.7	50.2
MAX	406	354	304	223	200	502	475	680	369	743	401	341
(WY)	(1987)	(1986)	(1993)	(1993)	(1999)	(1985)	(1983)	(1995)	(1995)	(1993)	(1981)	(1981)
MIN	0.16	0.27	0.00	0.00	0.00	7.30	7.27	7.21	5.45	5.52	2.48	7.06
(WY)	(1979)	(1979)	(1979)	(1979)	(1979)	(1989)	(1989)	(1988)	(1988)	(1989)	(1980)	(1984)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

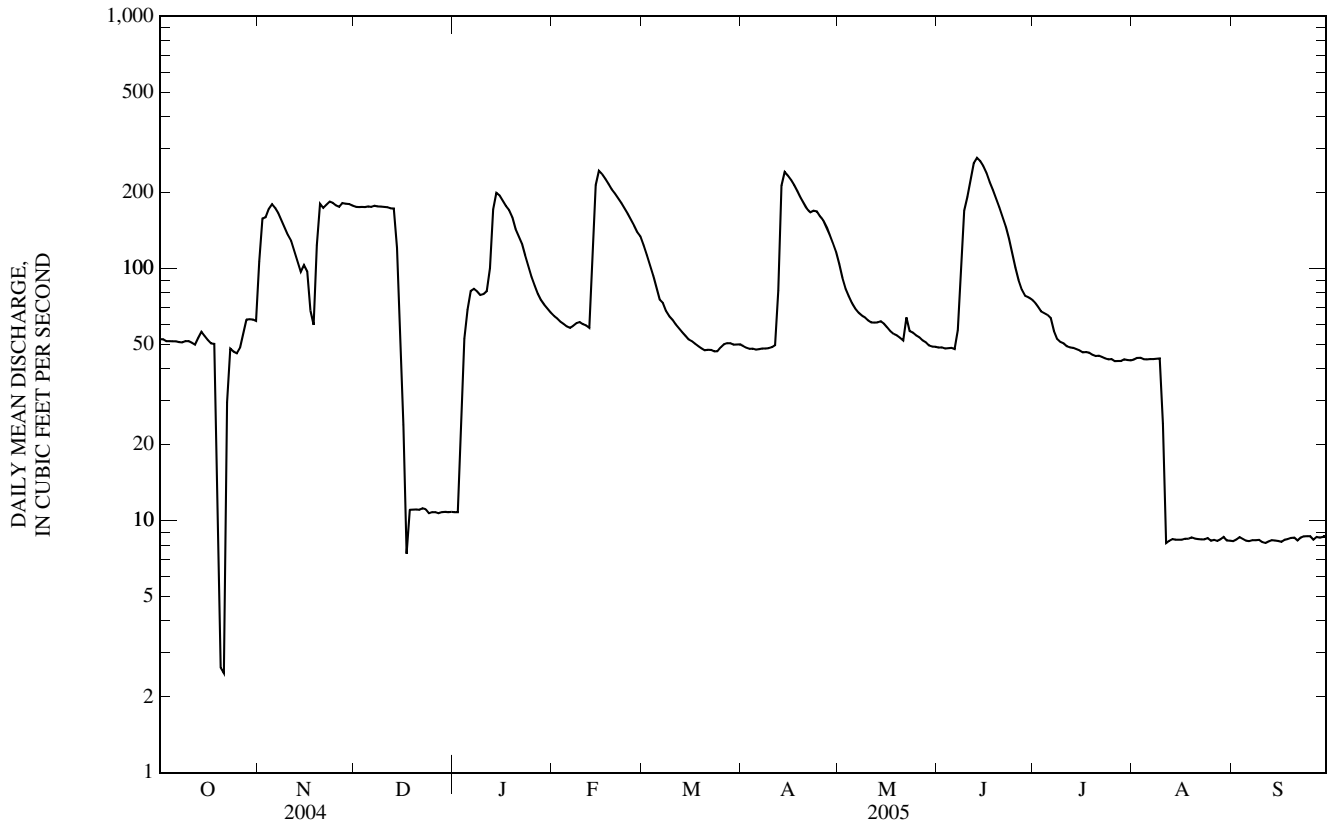
WATER YEARS 1979 - 2005^a

ANNUAL MEAN	75.6	81.2	88.1
HIGHEST ANNUAL MEAN			242
LOWEST ANNUAL MEAN			7.13
HIGHEST DAILY MEAN	306	Aug 29	1,380
LOWEST DAILY MEAN	2.5	Oct 21	0.00
ANNUAL SEVEN-DAY MINIMUM	10	Jan 14	0.00
MAXIMUM PEAK FLOW	---		1,560
MAXIMUM PEAK STAGE	---		15.00
INSTANTANEOUS LOW FLOW	---		0.00
ANNUAL RUNOFF (INCHES)	9.18	9.85	10.68
10 PERCENT EXCEEDS	173	180	268
50 PERCENT EXCEEDS	55	56	44
90 PERCENT EXCEEDS	13	8.5	6.9

^e Estimated

^a Post-regulation period.

06906200 EAST FORK LITTLE CHARITON RIVER NEAR MACON, MO—Continued



06906300 EAST FORK LITTLE CHARITON RIVER NEAR HUNTSVILLE, MO

LOCATION.--Lat 39°27'18", long 92°34'07", in NW ¼ NW ¼ NW ¼ sec.26, T.54 N., R.15 W., Randolph County, Hydrologic Unit 10280203, on right bank at downstream end of bridge on State Highway C, 1.0 mi downstream from Sugar Creek, and 1.5 mi northwest of Huntsville.

DRAINAGE AREA.--220 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1962 to current year. Occasional low-flow measurements, water years 1942-43, 1945-46.

GAGE.--Water-stage recorder. Datum of gage is 655.86 ft above National Geodetic Vertical Datum of 1929 (levels by the Missouri State Highway and Transportation Commission). Oct. 29, 1962 to July 18, 1972, on former bridge, at same datum; July 18, 1972 to Sept. 23, 1974, at datum 0.63 ft higher.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Some regulation by Long Branch Reservoir (station 06906190), 34 mi upstream since 1978. Low flow affected by operation of pumps 7 mi upstream. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,000 ft³/s, Apr. 21, 1973; gage height, 20.78 ft, former datum.

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	65	2,880	292	51	103	123	74	131	68	83	48	9.6
2	70	676	270	59	101	114	70	121	67	77	48	9.3
3	64	466	254	824	98	112	66	113	66	73	49	9.3
4	61	770	245	906	96	112	64	108	317	73	48	9.1
5	60	390	301	2,790	96	104	63	104	309	70	51	9.1
6	61	309	596	639	100	97	65	101	143	65	48	9.1
7	68	264	764	324	140	96	68	100	100	62	48	9.3
8	168	234	446	239	126	92	64	95	831	59	48	10
9	85	212	333	225	117	87	61	98	1,220	56	47	9.8
10	69	194	289	327	108	83	60	94	472	54	47	9.6
11	65	186	264	316	104	81	125	93	700	53	35	9.6
12	71	171	249	851	109	77	692	107	366	52	10	9.6
13	85	154	233	2,140	2,040	73	323	156	1,940	51	12	9.6
14	72	143	221	450	1,520	69	288	125	507	51	20	10
15	72	136	120	345	480	68	257	100	336	51	15	12
16	68	153	90	e315	330	67	236	93	274	51	14	11
17	63	128	65	e285	267	67	219	91	238	50	12	11
18	156	122	e50	e260	237	64	203	88	211	49	10	10
19	103	120	e49	240	214	62	189	87	188	50	12	10
20	56	210	e48	202	212	60	253	83	172	49	23	11
21	30	209	e47	178	199	60	283	81	159	50	17	11
22	26	201	e46	e165	181	79	558	611	144	50	11	10
23	203	215	e43	e160	167	147	305	209	135	49	11	13
24	107	323	e42	e150	156	101	226	117	123	49	10	15
25	80	306	43	e145	146	117	196	94	113	49	12	12
26	520	417	44	131	137	116	194	85	105	51	13	11
27	650	1,510	43	118	132	99	176	80	101	62	13	11
28	241	592	45	113	134	88	159	75	94	50	11	11
29	178	361	49	112	---	81	152	73	88	50	9.5	11
30	162	308	51	109	---	76	142	72	85	49	10	11
31	129	---	58	107	---	72	---	70	---	48	9.6	---
MEAN	126	412	184	428	280	88.5	194	118	322	56.0	24.9	10.5
MAX	650	2,880	764	2,790	2,040	147	692	611	1,940	83	51	15
MIN	26	120	42	51	96	60	60	70	66	48	9.5	9.1
IN.	0.66	2.09	0.96	2.24	1.33	0.46	0.99	0.62	1.64	0.29	0.13	0.05

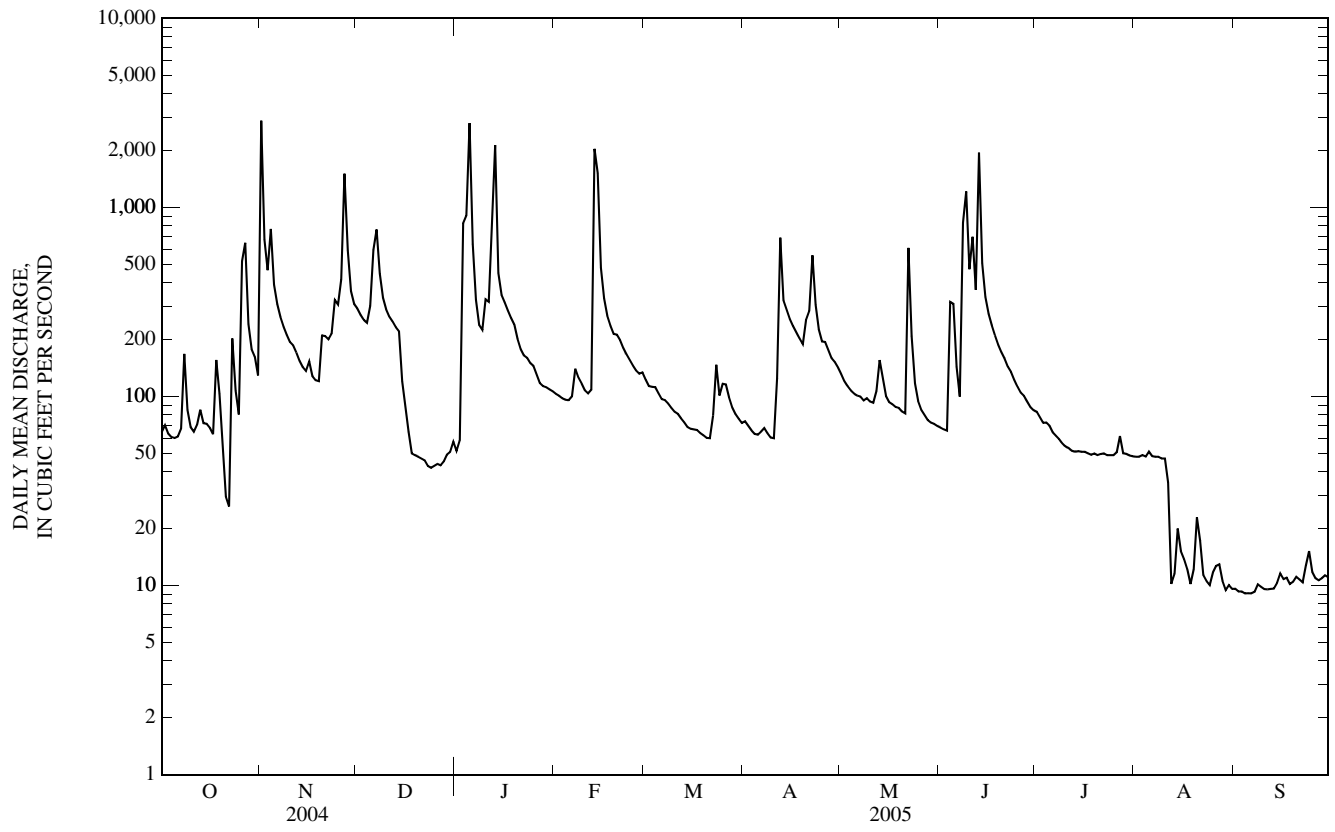
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2005, BY WATER YEAR (WY)

MEAN	98.2	133	139	105	167	221	236	337	224	208	115	104
MAX	1,019	756	666	428	732	945	935	1,403	562	1,569	514	774
(WY)	(1987)	(1986)	(1983)	(2005)	(1985)	(1985)	(1983)	(2002)	(1995)	(1993)	(1993)	(1993)
MIN	6.44	2.66	4.95	6.48	7.59	10.6	10.2	12.1	2.56	5.34	3.64	2.70
(WY)	(1981)	(1981)	(1989)	(1989)	(1989)	(1989)	(1989)	(1988)	(1988)	(1989)	(1980)	(1988)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1979 - 2005
ANNUAL MEAN	205	186	174
HIGHEST ANNUAL MEAN			468
LOWEST ANNUAL MEAN			17.3
HIGHEST DAILY MEAN	5,730	Aug 28	2,880
LOWEST DAILY MEAN	26	Oct 22	9.1
ANNUAL SEVEN-DAY MINIMUM	35	Jan 13	9.3
MAXIMUM PEAK FLOW	---		4,120
MAXIMUM PEAK STAGE	---		13.55
INSTANTANEOUS LOW FLOW	---		8.6
ANNUAL RUNOFF (INCHES)	12.70		11.47
10 PERCENT EXCEEDS	337		334
50 PERCENT EXCEEDS	85		96
90 PERCENT EXCEEDS	52		12
			9.2

e Estimated
a Post regulation period.

06906300 EAST FORK LITTLE CHARITON RIVER NEAR HUNTSVILLE, MO—Continued



06906300 EAST FORK LITTLE CHARITON RIVER NEAR HUNTSVILLE, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--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, μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 08...	1140	Environmental	151	9.7	89	7.4	442	11.0	200	52.1	16.2	4.80
JAN 25...	1020	Environmental	90	16.4	116	7.3	572	.1	--	--	--	--
JAN 25...	1021	Replicate	--	16.4	116	7.3	572	.1	--	--	--	--
MAR 07...	1245	Environmental	37	11.5	103	7.4	607	8.9	--	--	--	--
MAY 03...	1340	Environmental	36	11.5	110	8.1	517	12.2	240	60.9	21.4	4.56
JUL 11...	1200	Environmental	7.0	6.8	86	7.9	392	26.2	--	--	--	--
SEP 06...	1200	Environmental	9.1	7.3	89	7.5	764	24.6	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd, mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)
NOV 08...	13.1	83	83	102	<1	6.00	.2	122	299	51	.59	<.04	.27
JAN 25...	--	--	--	--	--	--	--	--	--	29	.64	.05	.42
JAN 25...	--	--	--	--	--	--	--	--	--	28	.59	E.04n	.42
MAR 07...	--	--	--	--	--	--	--	--	--	32	.61	<.04	.39
MAY 03...	16.9	84	85	102	<1	7.54	.2	159	353	18	.57	<.04	.30
JUL 11...	--	--	--	--	--	--	--	--	--	25	.56	<.04	E.05n
SEP 06...	--	--	--	--	--	--	--	--	--	12	.51	E.02n	<.06

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, water, col/100 mL (31625)	Aluminum, water, fltrd, μ g/L (01106)	Aluminum, water, unfltrd recoverable, μ g/L (01105)	Arsenic, water, fltrd, μ g/L (01000)	Cadmium, water, fltrd, μ g/L (01025)	Cadmium, water, unfltrd, μ g/L (01027)	Copper, water, fltrd, μ g/L (01040)	Iron, water, fltrd, μ g/L (01046)
NOV 08...	E.005n	<.02	E.02n	.10	170	210	18	578	1.0	<.04	.06	1.5	E5n
JAN 25...	.025	<.02	<.04	.07	6k	8k	--	--	--	--	--	--	--
JAN 25...	.025	<.02	<.04	.07	6k	4k	--	--	--	--	--	--	--
MAR 07...	E.004n	<.02	<.04	.06	20k	66	--	--	--	--	--	--	--
MAY 03...	.008	<.02	<.04	.04	50	74k	34	384	.6	E.02n	.04	2.3	11
JUL 11...	<.008	<.02	E.02n	.07	13k	48k	--	--	--	--	--	--	--
SEP 06...	<.008	E.02n	E.02n	E.04n	32k	58	--	--	--	--	--	--	--

CHARITON RIVER BASIN

06906300 EAST FORK LITTLE CHARITON RIVER NEAR HUNTSVILLE, 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 08...	<.08	1.24	164	<.01	.7	1.1	7
JAN 25...	--	--	--	--	--	--	--
JAN 25...	--	--	--	--	--	--	--
MAR 07...	--	--	--	--	--	--	--
MAY 03...	<.08	.53	240	E.01n	.5	2.1	5
JUL 11...	--	--	--	--	--	--	--
SEP 06...	--	--	--	--	--	--	--

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

06906500 MISSOURI RIVER AT GLASGOW, MO

LOCATION.--Lat 39°13'20", long 92°51'00", in NE ¼ NE ¼ NE ¼ sec.3, T.51 N., R.17 W., Howard County, Hydrologic Unit 10300102, at bridge on State Highway 240 in Glasgow, 75 ft downstream from Chicago and Alton Railway bridge, 1 mi downstream from Little Chariton River, and at mile 226.8.

DRAINAGE AREA.--497,900 mi². The 3,959 mi² in Great Divide basin are not included.

PERIOD OF RECORD.--October 2000 to current year. Gage-height records collected at site 1878-99 in reports of the Missouri River Commission. Gage-height records collected from January 1929 to August 1950 in files of the Corps of Engineers, Kansas City District. August 1950 to September 2000 gage-height records collected in files of the U.S.G.S.

GAGE.--Water-stage recorder. Datum of gage 586.49 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for estimated daily discharges and discharges above 100,000 ft³/s, which are fair. Some regulation from many upstream reservoirs. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 29, 1993 reached a stage of 39.50 ft.

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	46,200	41,500	31,700	28,000	30,100	38,400	38,400	47,800	51,400	66,000	40,100	45,900
2	44,000	50,400	30,400	29,100	32,700	37,200	37,500	46,000	52,800	71,300	37,600	43,500
3	42,700	53,400	29,800	31,600	33,700	35,800	37,000	44,600	60,100	67,600	36,600	41,300
4	41,500	47,500	29,200	42,400	33,200	33,900	36,900	43,700	68,500	63,100	35,700	39,800
5	40,500	47,800	28,600	59,900	32,400	32,200	37,000	43,100	129,000	59,300	35,300	38,200
6	39,700	43,100	30,600	68,900	32,200	30,800	37,400	42,700	153,000	59,100	35,300	e36,900
7	39,700	37,100	35,500	59,300	33,700	30,100	37,800	42,100	151,000	57,200	35,400	e36,000
8	42,200	33,600	43,500	44,100	47,200	29,600	37,200	41,200	127,000	52,000	35,000	35,200
9	56,800	31,500	40,000	36,100	53,200	29,600	37,300	40,200	122,000	49,400	34,500	34,500
10	54,900	29,900	35,100	33,700	47,400	29,100	41,200	39,900	124,000	47,200	34,600	34,100
11	44,900	28,600	32,700	33,400	43,500	28,000	42,800	39,600	124,000	44,800	34,600	34,100
12	41,500	28,000	31,700	34,600	40,300	27,300	53,200	45,100	134,000	43,100	34,500	34,300
13	41,700	27,800	31,100	45,300	49,100	26,900	69,200	51,800	174,000	42,000	35,000	34,400
14	42,300	27,400	30,100	54,800	94,200	26,500	72,100	95,300	191,000	41,000	38,600	34,200
15	39,800	27,100	29,200	46,100	118,000	26,300	69,500	149,000	157,000	39,800	49,400	34,600
16	36,200	27,100	28,800	35,900	113,000	26,300	61,600	136,000	122,000	39,100	49,300	35,200
17	33,400	27,100	28,800	31,300	102,000	26,100	54,700	111,000	105,000	38,700	51,400	37,600
18	31,500	26,700	28,700	29,800	84,200	25,800	50,900	93,200	93,000	38,000	44,800	39,800
19	30,700	26,400	28,200	30,200	66,300	25,400	47,900	79,500	88,200	37,100	40,800	39,600
20	29,500	26,100	27,700	30,800	56,400	24,900	46,100	74,400	85,600	37,000	42,900	38,300
21	28,700	26,100	26,800	30,800	51,000	24,400	45,600	72,100	81,700	38,100	65,400	38,400
22	28,200	26,000	26,200	31,000	48,400	24,400	49,600	65,800	78,300	39,000	69,700	38,600
23	28,300	25,800	25,800	31,400	46,500	25,500	76,400	68,400	74,400	38,100	53,400	37,900
24	27,700	26,600	25,800	31,900	44,300	27,400	81,600	70,000	70,700	37,600	45,300	39,900
25	27,000	28,700	26,000	32,200	42,600	28,300	73,200	60,500	67,700	36,800	42,600	58,300
26	26,800	31,200	25,700	32,500	41,600	29,100	64,900	56,300	67,000	36,200	45,700	65,000
27	29,600	38,600	25,100	32,500	40,500	30,300	57,900	55,700	68,900	36,400	60,500	49,000
28	31,400	45,400	24,600	34,000	39,400	32,700	53,300	53,600	64,200	36,100	72,800	42,700
29	31,300	42,900	24,700	33,300	---	36,200	50,800	50,800	60,600	38,500	61,800	39,700
30	31,600	35,300	25,300	30,200	---	39,500	49,600	51,100	61,200	47,800	55,600	37,600
31	31,500	---	26,700	28,800	---	39,800	---	51,500	---	46,100	51,100	---
MEAN	36,830	33,820	29,490	37,220	53,470	29,930	51,620	63,290	100,200	45,920	45,330	39,820
MAX	56,800	53,400	43,500	68,900	118,000	39,800	81,600	149,000	191,000	71,300	72,800	65,000
MIN	26,800	25,800	24,600	28,000	30,100	24,400	36,900	39,600	51,400	36,100	34,500	34,100
IN.	0.09	0.08	0.07	0.09	0.11	0.07	0.12	0.15	0.22	0.11	0.10	0.09

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

MEAN	40,760	39,200	28,120	27,910	38,780	48,860	55,330	78,620	91,290	55,100	45,250	45,090
MAX	47,720	44,860	33,050	37,220	58,990	96,960	93,040	106,000	155,200	72,690	61,150	55,750
(WY)	(2002)	(2001)	(2002)	(2005)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2004)	(2001)
MIN	35,030	33,820	24,460	21,660	23,540	26,810	38,960	58,080	50,710	37,180	32,520	36,670
(WY)	(2004)	(2005)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2003)	(2002)

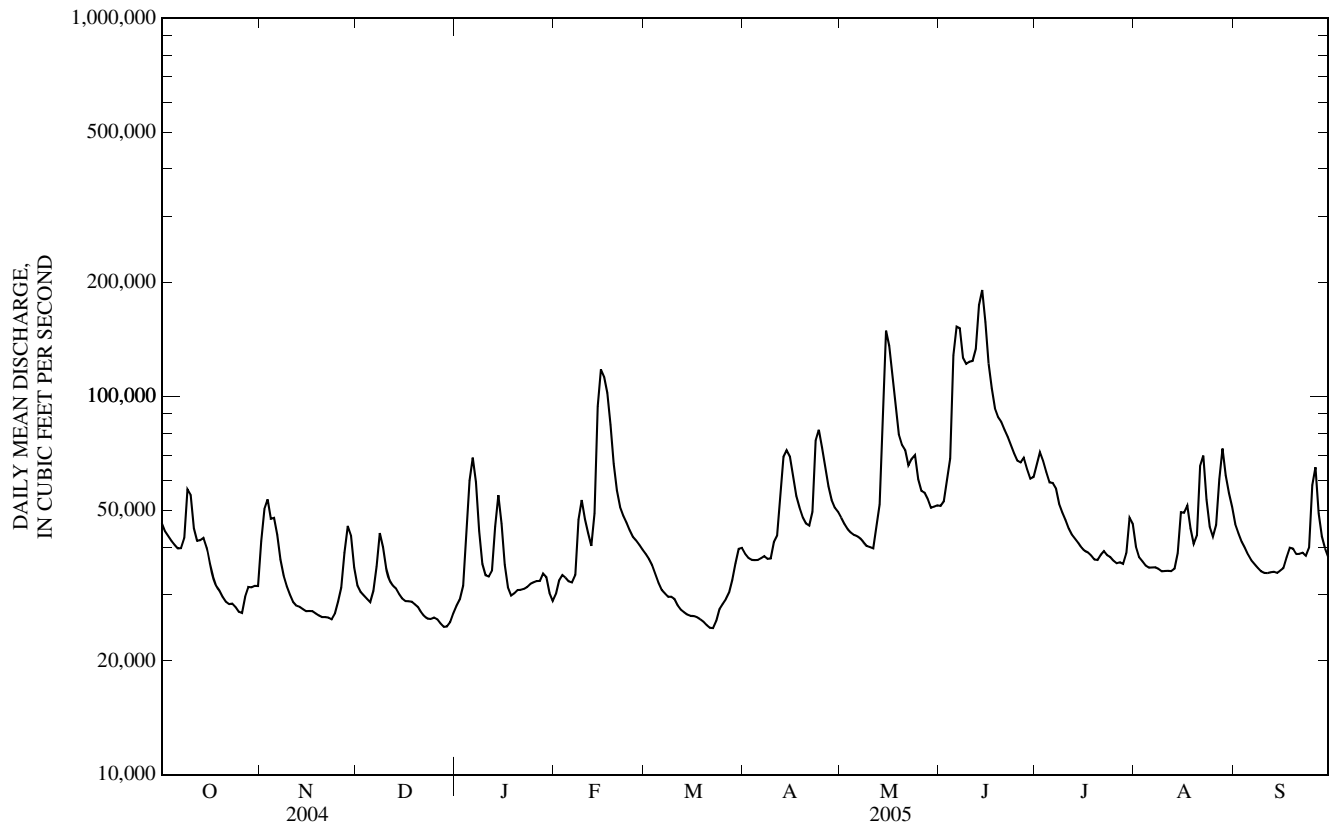
SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 2001 - 2005
ANNUAL MEAN	49,810	47,100	49,520
HIGHEST ANNUAL MEAN			69,160
LOWEST ANNUAL MEAN			37,010
HIGHEST DAILY MEAN	153,000	191,000	261,000
LOWEST DAILY MEAN	20,900	24,400	18,400
ANNUAL SEVEN-DAY MINIMUM	21,700	25,200	19,900
MAXIMUM PEAK FLOW	---	196,000	272,000
MAXIMUM PEAK STAGE	---	27.43	31.66
INSTANTANEOUS LOW FLOW	---	24,200	18,300
ANNUAL RUNOFF (INCHES)	1.36	1.28	1.35
10 PERCENT EXCEEDS	86,800	72,100	85,700
50 PERCENT EXCEEDS	40,800	39,600	40,600
90 PERCENT EXCEEDS	24,600	27,400	24,700

e Estimated

MISSOURI RIVER MAIN STEM

06906500 MISSOURI RIVER AT GLASGOW, MO—Continued



06906800 LAMINE RIVER NEAR OTTERVILLE, MO

LOCATION.--Lat 38°42'08", long 92°58'44", in NE ¼ NE ¼ NW ¼ sec.2, T.45 N., R.19 W., Cooper County, Hydrologic Unit 10300103, on left bank at the left downstream end of Highway A, 7.2 mi downstream from confluence of Flat Creek and Richland Creek, 2.2 mi upstream from Otter Creek, and 1.1 mi east of Otterville.

DRAINAGE AREA.--543 mi².

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 652.87 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good 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	16	12,400	677	110	148	160	65	85	17	9.5	1.9	113
2	25	9,510	568	108	143	143	60	74	17	9.2	1.7	87
3	27	1,040	464	4,910	143	132	55	65	16	8.8	2.2	67
4	23	3,640	393	5,610	140	126	53	58	17	9.5	2.7	53
5	21	961	340	18,200	134	120	52	54	20	9.0	2.0	44
6	19	543	493	11,400	137	113	54	50	20	8.7	1.4	37
7	20	389	4,110	1,340	215	347	1,570	48	21	8.3	1.4	32
8	244	289	2,160	783	533	429	848	46	20	8.0	1.4	28
9	420	220	777	609	489	280	446	48	18	7.9	3.6	26
10	202	176	545	1,030	461	206	321	47	45	7.4	2.3	22
11	77	2,190	424	866	369	168	282	44	134	7.0	2.1	20
12	232	2,490	358	1,420	333	145	552	40	211	6.8	2.0	18
13	650	723	306	17,000	9,530	128	431	51	1,550	6.6	11	17
14	361	432	250	2,860	6,240	113	311	61	1,220	6.5	54	36
15	140	316	210	695	1,280	102	229	67	328	6.0	181	e167
16	60	255	191	455	691	97	183	62	147	5.7	252	e323
17	34	212	184	367	494	92	155	53	80	5.7	313	156
18	24	181	175	309	407	88	139	47	52	5.7	877	101
19	20	164	162	281	354	84	121	41	37	5.4	274	247
20	17	147	147	278	333	78	130	36	29	5.0	112	553
21	15	127	139	287	318	74	169	32	24	4.8	58	238
22	14	111	134	269	277	77	222	31	21	4.7	49	135
23	13	112	115	216	242	94	163	28	18	4.6	403	91
24	12	9,380	115	178	224	111	111	26	16	4.1	311	68
25	13	5,910	99	169	214	111	91	24	15	3.8	3,930	56
26	13	3,890	94	170	189	107	98	23	13	3.4	8,990	47
27	19	10,500	93	162	172	101	110	21	12	3.2	8,090	42
28	804	5,620	94	149	167	93	94	21	11	3.3	822	39
29	278	1,180	101	147	---	86	96	20	10	3.2	400	36
30	149	810	108	148	---	79	97	19	9.7	2.5	242	31
31	365	---	111	148	---	71	---	18	---	2.0	158	---
MEAN	140	2,464	456	2,280	871	134	244	43.2	138	6.01	824	97.7
MAX	804	12,400	4,110	18,200	9,530	429	1,570	85	1,550	9.5	8,990	553
MIN	12	111	93	108	134	71	52	18	9.7	2.0	1.4	17

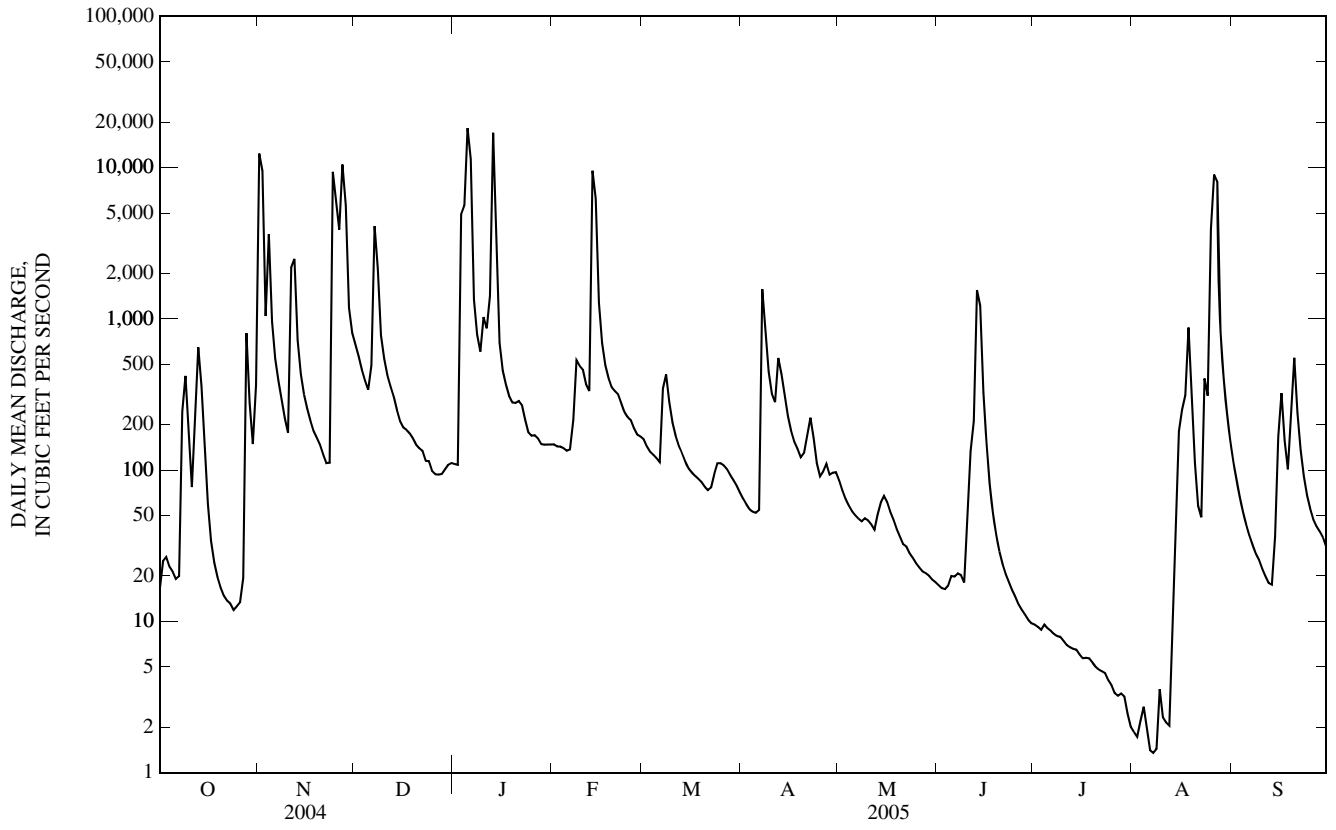
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	173	582	349	434	596	558	810	1,199	581	587	204	263
MAX	2,130	3,347	1,564	2,280	2,422	2,174	3,809	4,718	3,176	4,077	850	3,689
(WY)	(1999)	(1993)	(1993)	(2005)	(1997)	(1998)	(1994)	(1990)	(1998)	(1993)	(1995)	(1993)
MIN	6.40	7.19	11.1	14.4	21.3	46.4	22.2	38.8	10.5	5.34	1.97	4.03
(WY)	(2003)	(2003)	(1990)	(2003)	(2003)	(1996)	(2000)	(1992)	(1988)	(2003)	(2003)	(1999)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1987 - 2005	
ANNUAL MEAN	608		639		527	
HIGHEST ANNUAL MEAN					1,464	
LOWEST ANNUAL MEAN					115	
HIGHEST DAILY MEAN	18,800	Mar 5	18,200	Jan 5	47,000	May 18, 1995
LOWEST DAILY MEAN	9.2	Aug 19	1.4	Aug 6-8	1.1	Aug 18,19, 2003
ANNUAL SEVEN-DAY MINIMUM	11	Aug 16	1.8	Aug 2	1.3	Aug 13, 2003
MAXIMUM PEAK FLOW	---		21,300	Jan 5	84,900	May 18, 1995
MAXIMUM PEAK STAGE	---		20.91	Jan 5	29.43	May 18, 1995
INSTANTANEOUS LOW FLOW	---		1.4	Aug 6-9	1.1	Aug 18,19, 2003
ANNUAL RUNOFF (INCHES)	15.24		15.97		13.19	
10 PERCENT EXCEEDS	806		832		749	
50 PERCENT EXCEEDS	155		111		72	
90 PERCENT EXCEEDS	21		8.2		8.7	

e Estimated

06906800 LAMINE RIVER NEAR OTTERVILLE, MO—Continued



06907300 LAMINE RIVER NEAR PILOT GROVE, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 38°53'32", long 93°02'00", in SE 1/4 NW 1/4 NW 1/4 sec.32, T.48 N., R.19 W., Cooper County, Hydrologic Unit 10300102. Approximately 2 mi southeast of County Highway Z on Shackleford Road.

DRAINAGE AREA.--949 mi².

PERIOD OF RECORD.--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, 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 30...	1215	Environmental	1,260	12.1	101	7.2	260	6.9	110	28.8	10.3	4.61
JAN 24...	1245	Environmental	401	14.1	102	7.2	391	1.1	--	--	--	--
FEB 15...	1220	Blank	--	--	--	--	--	--	--	--	--	--
FEB 15...	1225	Environmental	5,370	10.2	89	7.5	179	8.3	--	--	--	--
MAR 08...	1200	Environmental	1,130	11.9	104	8.1	478	8.8	--	--	--	--
APR 04...	1220	Environmental	112	9.8	101	8.2	460	15.3	--	--	--	--
MAY 02...	1410	Environmental	164	10.7	109	8.2	451	14.5	230	58.4	19.3	3.90
JUN 22...	0835	Environmental	78	6.2	79	7.8	305	26.9	--	--	--	--
JUL 12...	1300	Environmental	32	4.4	57	7.6	404	27.6	160	40.8	14.8	6.30
SEP 07...	1200	Environmental	51	7.8	97	7.6	313	25.5	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC, wat fltrd, mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)
NOV 30...	4.66	103	102	125	<1	6.68	E.1n	12.4	151	123	.97	.08	.94
JAN 24...	--	--	--	--	--	--	--	--	--	27	.43	<.04	1.76
FEB 15...	--	--	--	--	--	--	--	--	--	<10	<.10	<.04	<.06
FEB 15...	--	--	--	--	--	--	--	--	--	182d	1.5	.09	1.06
MAR 08...	--	--	--	--	--	--	--	--	--	135	.90	<.04	1.57
APR 04...	--	--	--	--	--	--	--	--	--	26	.61	<.04	.43
MAY 02...	12.4	185	185	225	<1	15.4	.2	25.8	268	29	.65	<.04	.44
JUN 22...	--	--	--	--	--	--	--	--	--	56	1.3	<.04	2.93
JUL 12...	16.5	153	152	185	<1	17.9	.2	18.4	227	36	1.0	.04	<.06
SEP 07...	--	--	--	--	--	--	--	--	--	15	.75	<.04	.29

06907300 LAMINE RIVER NEAR PILOT GROVE, MO

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, 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 30...	E.004n	.12	.14	.32	1,400	1,900	3	1,750d	.9	<.04	.05	1.7	36
JAN 24...	.011	.02	.05	.16	7k	33k	--	--	--	--	--	--	--
FEB 15...	<.008	<.02	<.04	<.04	--	--	--	--	--	--	--	--	--
FEB 15...	.010	.09	.18	.42	920	1,100	--	--	--	--	--	--	--
MAR 08...	.011	.22	.27	.46	580	580	--	--	--	--	--	--	--
APR 04...	.008	E.01n	.05	.12	5k	13k	--	--	--	--	--	--	--
MAY 02...	E.005n	.04	.08	.17	220	210	2	299	1.0	<.04	E.02n	1.0	21
JUN 22...	.070	.06	.10	.25	230	190	--	--	--	--	--	--	--
JUL 12...	<.008	E.01n	.05	.16	24k	21k	3	486	2.5	<.04	E.04n	1.5	11
SEP 07...	.010	.05	.06	.14	42k	68	--	--	--	--	--	--	--

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 30...	<.08	3.04	95.3	.01	.5	1.2	9
JAN 24...	--	--	--	--	--	--	--
FEB 15...	--	--	--	--	--	--	--
FEB 15...	--	--	--	--	--	--	--
MAR 08...	--	--	--	--	--	--	--
APR 04...	--	--	--	--	--	--	--
MAY 02...	E.07n	.66	109	E.01n	E.3n	1.2	2
JUN 22...	--	--	--	--	--	--	--
JUL 12...	<.08	1.38	503	E.01n	.4	.9	3
SEP 07...	--	--	--	--	--	--	--

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

06908000 BLACKWATER RIVER NEAR BLUE LICK, MO

LOCATION.--Lat 38°59'32", long 93°11'48", in SW 1/4 SW 1/4 SW 1/4 sec.26, T.49 N., R.21 W., Saline County, Hydrologic Unit 10300104, on left bank at upstream side of bridge on northbound lane of U.S. Highway 65, 1.2 mi downstream from Finney Creek, 1.8 mi southeast of Blue Lick, and at mile 30.3.

DRAINAGE AREA.--1,120 mi².

PERIOD OF RECORD.--June 1922 to September 1933, May 1938 to current year. Published as "at Blue Lick" for periods of record from 1922 to 2000.

REVISED RECORDS.--WSP 1006: 1929. WDR MO-84-1: 1982(M).

GAGE.--Water-stage recorder. Datum of gage is 593.79 ft above National Geodetic Vertical Datum of 1929. Prior to July 25, 1925, nonrecording gage at site 75 ft downstream at datum 0.10 ft lower; July 25 to Sept. 30, 1933, and May 23, 1938 to Dec. 3, 1956, nonrecording gage at site 25 ft downstream at same datum; Dec. 4, 1956, to Oct. 1, 1986, at site 0.5 mi upstream at present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station. Published as "Blackwater River at Blue Lick" for periods of record from 1922 to 2000.

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	62	5,880	4,850	196	270	341	170	111	31	18	2.4	313
2	56	6,660	1,280	191	279	289	157	98	29	30	2.1	217
3	54	4,720	852	2,900	280	259	144	87	27	37	1.8	156
4	55	5,560	648	7,110	261	248	132	79	201	38	1.4	127
5	55	4,640	580	10,700	254	248	128	74	3,810	33	1.2	109
6	48	2,240	1,680	12,800	281	234	127	70	4,030	30	1.2	95
7	94	815	3,760	15,300	1,420	241	150	68	851	35	0.98	85
8	1,510	512	4,540	15,900	2,170	1,130	165	66	555	30	0.70	77
9	1,160	370	2,940	13,600	996	670	143	66	252	23	0.62	71
10	428	305	1,210	9,740	641	399	126	65	442	21	0.55	59
11	193	524	746	3,370	528	318	135	66	820	17	0.43	47
12	812	2,200	549	2,800	661	265	170	509	342	14	1.3	41
13	713	978	457	8,030	7,640	233	150	1,120	1,560	10	210	38
14	407	422	357	7,690	9,460	207	131	2,210	1,200	8.2	799	36
15	224	301	277	7,260	10,100	182	110	783	502	7.6	296	225
16	158	252	e270	4,730	10,600	169	99	307	202	6.3	137	555
17	126	231	e235	1,210	8,290	163	100	174	125	5.1	95	328
18	107	214	e220	736	1,800	159	96	127	96	4.6	464	128
19	96	198	e200	594	819	155	91	103	76	5.1	1,860	88
20	89	192	e185	580	710	144	229	90	62	3.6	290	224
21	82	183	e165	623	716	133	500	78	54	3.0	249	117
22	77	166	e150	546	614	154	2,880	69	49	3.0	182	73
23	123	159	e140	362	507	875	1,740	64	45	3.0	318	102
24	143	3,580	e135	338	450	1,030	446	58	37	2.8	623	1,140
25	144	6,800	e125	337	417	666	233	51	32	2.5	942	362
26	197	7,160	122	321	378	483	184	49	28	2.5	8,280	120
27	1,430	9,120	127	307	342	358	168	43	29	3.3	11,100	81
28	1,970	9,950	136	267	340	294	147	40	24	3.4	10,800	318
29	916	9,980	159	249	---	254	126	39	19	3.1	11,000	330
30	1,270	9,380	182	256	---	231	120	40	17	2.8	7,170	110
31	1,130	---	197	262	---	202	---	34	---	2.6	814	---
MEAN	449	3,123	886	4,171	2,187	346	310	221	518	13.2	1,795	192
MAX	1,970	9,980	4,850	15,900	10,600	1,130	2,880	2,210	4,030	38	11,100	1,140
MIN	48	159	122	191	254	133	91	34	17	2.5	0.43	36
MED	144	896	270	736	627	248	145	70	86	6.3	210	114
IN.	0.46	3.11	0.91	4.29	2.03	0.36	0.31	0.23	0.52	0.01	1.85	0.19

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

MEAN	548	626	471	508	766	1,028	1,411	1,299	1,270	820	323	605
MAX	9,500	6,100	3,359	4,171	5,206	4,706	8,473	8,090	6,235	8,855	1,835	5,979
(WY)	(1987)	(1929)	(1983)	(2005)	(1985)	(1973)	(1973)	(1995)	(2001)	(1951)	(1998)	(1961)
MIN	0.13	0.32	1.66	1.55	5.54	9.50	29.6	9.93	18.4	1.78	1.61	0.13
(WY)	(1957)	(1957)	(1957)	(1957)	(1954)	(1956)	(1977)	(1932)	(1956)	(1933)	(1930)	(1956)

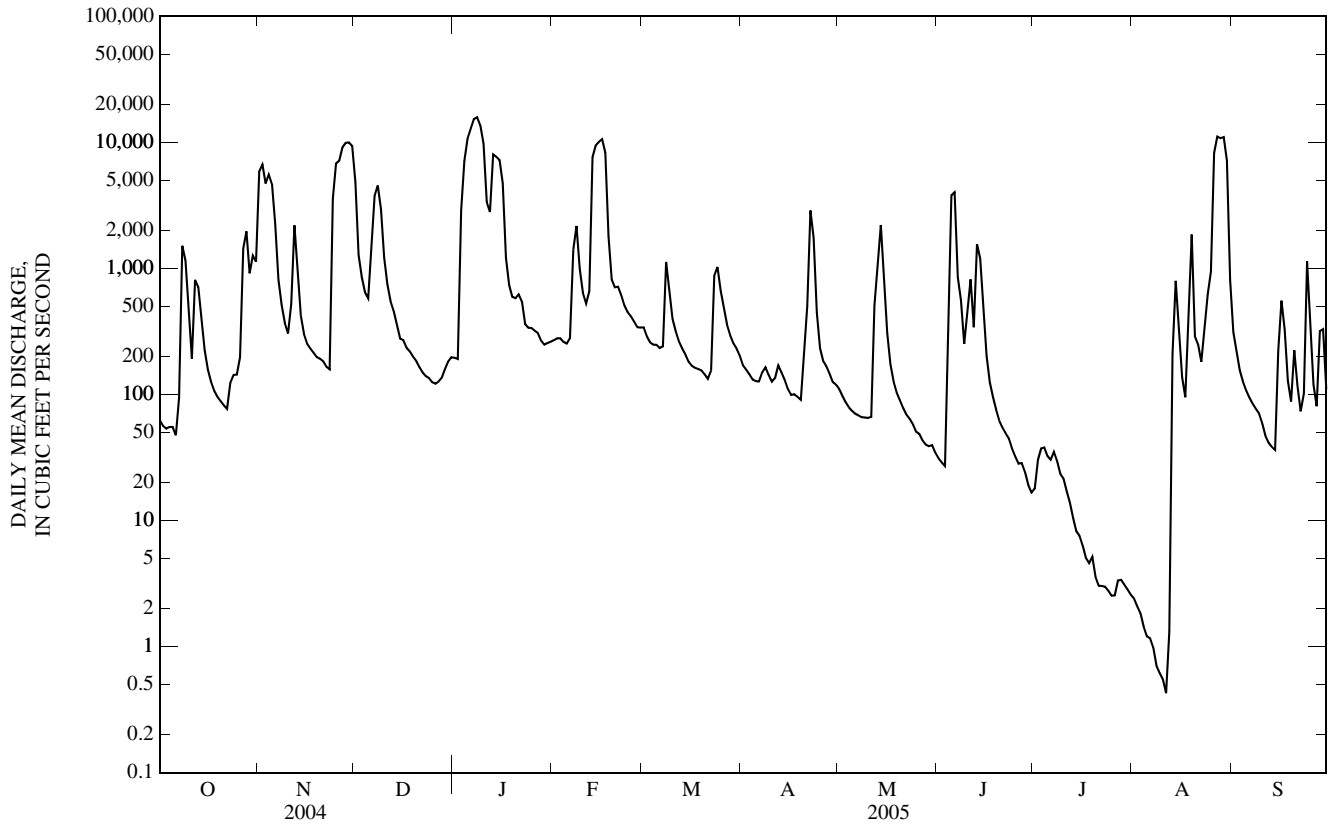
SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	FOR PERIOD OF RECORD
ANNUAL MEAN	1,114	1,178	808
HIGHEST ANNUAL MEAN			2,540
LOWEST ANNUAL MEAN			95.8
HIGHEST DAILY MEAN	9,980	Nov 29	15,900
LOWEST DAILY MEAN	48	Oct 6	0.43
ANNUAL SEVEN-DAY MINIMUM	57	Sep 30	0.81
MAXIMUM PEAK FLOW	---		16,200
MAXIMUM PEAK STAGE	---		32.38
INSTANTANEOUS LOW FLOW	---		0.32
ANNUAL RUNOFF (INCHES)	13.54		14.28
10 PERCENT EXCEEDS	4,170		3,780
50 PERCENT EXCEEDS	275		202
90 PERCENT EXCEEDS	109		20

e Estimated

MISSOURI RIVER BASIN

06908000 BLACKWATER RIVER NEAR BLUE LICK, MO—Continued



06909000 MISSOURI RIVER AT BOONVILLE, MO

LOCATION.--Lat 38°58'52", long 92°44'46", sec.26, T.49 N., R.17 W., Cooper County, Hydrologic Unit 10300102, near mid-span of the Highway 40 and 5 bridge just north of Boonville, 5.4 mi below Lamine River, and at mile 196.6.

DRAINAGE AREA.--500,700 mi². The 3,959 mi² in Great Divide basin are not included.

PERIOD OF RECORD.--October 1925 to current year. Gage-height records collected at same site 1893-99 are in reports of the Missouri River Commission; since 1900 in reports of the National Weather Service.

REVISED RECORDS.--WDR MO-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 565.42 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1928, nonrecording gage on old Highway 40 bridge, at datum 3.14 ft lower; Oct. 1, 1928, to May 9, 1931, nonrecording gage at site .4 mile upstream at the old Missouri/Kansas/Texas Railroad bridge at present datum; May 10, 1931, to Apr. 12, 1934, water-stage recorder on old Highway 40 bridge at present datum; April 12, 1934 to April 8, 2003, water-stage recorder at site .4 mile upstream at the Missouri/Kansas/Texas Railroad Bridge at present datum; April 8, 2003 to present, water-stage recorder at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Some regulation from many upstream reservoirs. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 21, 1844, reached a stage of 32.7 ft, discharge, about 710,000 ft³/s, computed by the U.S. Army Corps of Engineers. Flood of June 6, 1903, reached a stage of 30.5 ft, discharge, about 612,000 ft³/s, computed by the U.S. Army Corps of Engineers.

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	47,500	48,100	41,600	28,800	29,800	40,500	40,100	49,500	53,600	65,400	43,100	49,600
2	45,100	67,900	36,200	30,100	31,900	39,500	38,900	47,600	54,000	71,700	39,000	45,500
3	43,300	71,700	33,500	34,900	33,800	38,200	38,200	45,900	59,600	70,200	37,600	43,100
4	42,000	59,900	32,400	55,200	33,800	36,500	37,900	44,700	65,600	66,200	36,700	41,300
5	41,000	58,000	31,500	78,400	33,000	34,700	37,900	43,900	115,000	61,400	35,900	39,700
6	40,100	51,100	33,000	92,400	32,600	33,200	38,100	43,600	154,000	60,100	35,700	38,300
7	39,700	42,800	41,100	89,200	33,700	32,300	38,700	43,000	155,000	59,700	35,800	37,300
8	42,500	37,300	e53,000	66,600	43,600	32,300	40,000	42,200	133,000	54,900	35,700	36,300
9	52,600	34,400	e48,500	52,100	57,100	32,900	38,900	41,000	122,000	51,300	35,100	35,600
10	60,600	32,300	41,300	46,500	51,800	31,900	40,300	40,500	127,000	49,100	35,000	35,000
11	50,700	30,800	36,600	42,600	46,900	30,700	44,100	40,300	125,000	46,600	35,000	34,800
12	44,100	32,700	34,700	39,500	43,300	29,600	48,500	46,700	131,000	44,400	35,000	34,700
13	44,000	33,500	33,600	60,800	55,900	28,900	68,700	53,900	173,000	43,000	36,200	34,800
14	44,300	29,900	32,700	75,000	102,000	28,400	73,900	86,600	196,000	41,900	37,800	34,700
15	41,700	28,700	31,700	66,100	128,000	28,000	72,700	154,000	170,000	40,800	46,600	34,900
16	39,100	28,300	30,900	46,300	118,000	27,800	65,800	148,000	129,000	39,800	50,800	35,900
17	35,900	28,200	30,700	37,100	108,000	27,600	58,100	124,000	109,000	39,300	51,700	37,700
18	33,700	27,800	30,600	32,600	91,600	27,300	53,400	106,000	95,300	38,800	50,700	40,200
19	32,400	27,300	30,300	32,300	72,600	26,800	50,000	90,900	89,700	37,900	46,500	41,000
20	31,500	27,000	29,800	32,800	62,000	26,300	47,700	82,200	87,300	37,200	43,600	40,800
21	30,400	26,700	28,900	33,100	55,300	25,800	48,200	80,100	84,300	37,500	54,500	40,300
22	29,800	26,700	28,100	33,200	51,600	25,500	53,800	73,900	81,100	38,800	73,400	39,900
23	29,600	26,400	27,300	33,000	49,700	26,100	72,400	71,000	77,400	38,400	59,700	39,400
24	29,500	31,200	27,100	33,300	47,400	29,000	83,700	76,400	73,500	37,700	49,000	39,700
25	28,500	45,400	27,300	33,700	45,200	30,100	76,900	67,600	70,500	37,100	46,200	50,300
26	28,000	48,600	27,300	33,900	43,900	30,600	68,200	61,300	68,400	36,200	56,100	67,200
27	30,100	52,900	26,600	34,000	42,900	31,300	60,800	59,500	69,600	36,200	75,500	55,800
28	34,400	63,800	25,900	34,600	41,700	32,800	55,900	58,100	67,700	35,900	88,200	45,700
29	35,500	59,900	25,700	35,400	---	35,700	52,600	54,300	62,800	36,500	76,300	42,200
30	33,800	47,300	26,100	32,500	---	39,400	51,100	53,200	62,100	43,900	65,800	39,500
31	34,000	---	27,400	30,200	---	41,200	---	53,700	---	48,900	58,300	---
MEAN	38,560	40,890	32,630	45,360	56,680	31,640	53,180	67,210	102,000	46,670	48,600	41,040
MAX	60,600	71,700	53,000	92,400	128,000	41,200	83,700	154,000	196,000	71,700	88,200	67,200
MIN	28,000	26,400	25,700	28,800	29,800	25,500	37,900	40,300	53,600	35,900	35,000	34,700
IN.	0.09	0.09	0.08	0.10	0.12	0.07	0.12	0.15	0.23	0.11	0.11	0.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2005^a, BY WATER YEAR (WY)

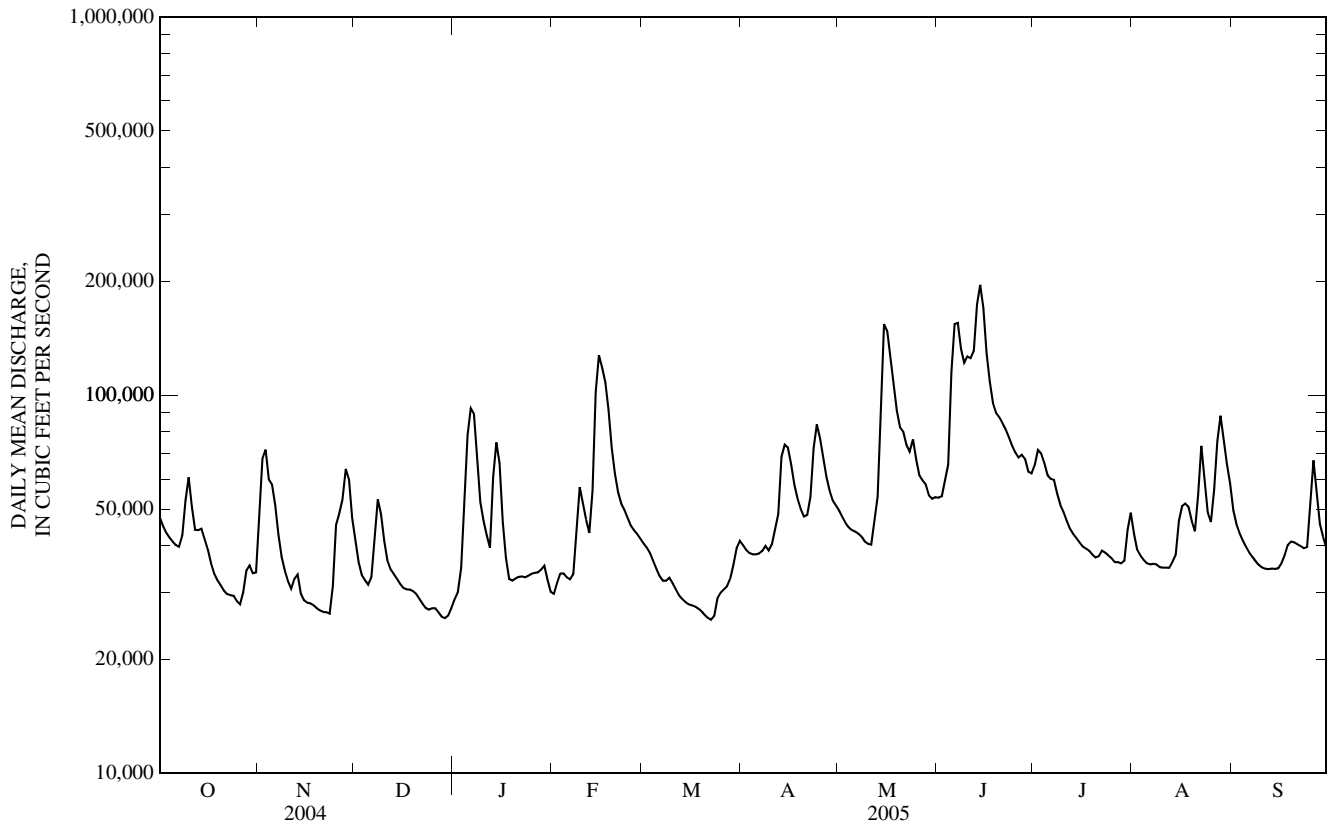
MEAN	64,100	60,530	44,340	35,750	48,800	69,180	88,100	91,920	94,420	82,780	62,990	65,050
MAX	187,800	139,100	106,200	90,150	106,300	183,900	212,700	234,700	201,100	375,200	213,600	165,900
(WY)	(1974)	(1999)	(1983)	(1973)	(1982)	(1973)	(1973)	(1995)	(1984)	(1993)	(1993)	(1993)
MIN	35,630	24,600	13,840	14,770	17,620	19,460	39,060	40,770	41,990	37,530	33,550	36,730
(WY)	(2004)	(1991)	(1964)	(1963)	(1964)	(1964)	(1989)	(1989)	(1988)	(2002)	(2003)	(1991)

MISSOURI RIVER MAIN STEM

06909000 MISSOURI RIVER AT BOONVILLE, MO—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1958 - 2005 ^a	
ANNUAL MEAN	53,030		50,230		67,360	
HIGHEST ANNUAL MEAN					140,500	1993
LOWEST ANNUAL MEAN					38,560	2003
HIGHEST DAILY MEAN	154,000	Mar 6	196,000	Jun 14	721,000	Jul 30, 1993
LOWEST DAILY MEAN	22,500	Jan 14	25,500	Mar 22	5,000	Dec 21, 1963
ANNUAL SEVEN-DAY MINIMUM	23,400	Jan 11	26,500	Mar 17	5,730	Dec 19, 1963
MAXIMUM PEAK FLOW	---		199,000	Jun 14	755,000	Jul 29, 1993
MAXIMUM PEAK STAGE	---		23.61	Jun 14	37.10	Jul 29, 1993
INSTANTANEOUS LOW FLOW	---		25,300	Mar 22	5,500	Jan 22,24 1963
ANNUAL RUNOFF (INCHES)	1.44		1.36		1.83	
10 PERCENT EXCEEDS	93,800		77,800		122,000	
50 PERCENT EXCEEDS	42,600		41,300		53,800	
90 PERCENT EXCEEDS	26,300		29,600		28,800	

e Estimated
^a Post-regulation period.



06909500 MONITEAU CREEK NEAR FAYETTE, MO

LOCATION.--Lat 39°07'15", long 92°34'02", in SE ¼ SE ¼ sec.14, T.50 N., R.15 W., Howard County, Hydrologic Unit , on downstream side of County Road 406 bridge, 1 mi downstream from Hungry Mother Creek, 7.5 mi east of Fayette, and 15 mi upstream from mouth.

DRAINAGE AREA.--75.1 mi².

PERIOD OF RECORD.--March 1948 to September 1969, July 13, 2002 to current year. Fragmentary record for the 1961 water year.

GAGE.--Water-stage recorder. Datum of gage is unknown. Prior to Aug. 14, 1957, nonrecording gage at county highway bridge at datum of 607.93 ft above National Geodetic Vertical Datum of 1929. Aug. 14, 1957 to September 1969 water-stage recorder on right upstream side of bridge at same datum; 1970 to 1992 crest-stage partial record station. Re-established July 13, 2002.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 22.9 ft, probably in April 1944, from information by local resident.

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	0.54	2,070	50	8.3	15	18	13	18	2.4	0.63	0.03	0.25
2	1.1	452	41	16	14	17	12	16	2.4	0.58	0.02	0.18
3	0.89	221	34	1,090	13	16	11	15	2.3	0.51	0.02	0.14
4	0.60	410	27	801	13	15	11	13	3.4	0.55	0.02	0.12
5	0.54	101	39	2,140	13	14	10	16	5.1	0.57	0.02	0.10
6	0.53	53	238	e520	15	13	10	13	3.2	0.56	0.02	0.08
7	1.1	34	833	e225	43	e15	16	11	1.8	0.48	0.02	0.06
8	6.4	26	217	e125	39	14	12	12	68	0.40	0.01	0.05
9	2.7	19	87	e88	31	13	11	12	69	0.35	0.01	0.04
10	2.9	16	56	152	26	12	9.9	9.3	17	0.31	0.01	0.03
11	1.2	14	39	129	22	11	268	250	11	0.27	0.01	0.03
12	0.85	11	30	435	21	11	758	467	7.9	0.26	0.05	0.03
13	1.5	9.2	22	1,690	1,580	9.7	148	1,110	268	0.23	8.1	0.03
14	1.5	8.8	21	e281	833	8.9	73	225	64	0.23	13	0.03
15	0.94	7.7	25	e107	240	7.8	49	87	22	0.21	1.0	0.06
16	0.89	7.2	21	e82	117	8.7	41	49	12	0.19	0.59	0.08
17	0.82	6.4	19	e69	72	8.6	34	34	7.5	0.19	0.33	0.08
18	34	6.4	16	e54	55	8.3	29	26	7.4	0.18	0.24	0.06
19	37	7.2	13	e47	46	8.1	25	19	5.3	0.17	0.20	0.04
20	13	6.7	e14	40	48	7.4	148	14	3.3	0.15	0.16	0.04
21	7.4	5.3	13	35	42	7.6	104	11	2.2	0.14	0.11	0.04
22	3.6	5.1	e12	28	33	56	266	11	1.7	0.14	0.09	0.04
23	3.5	4.9	e12	e26	27	191	105	8.3	1.4	0.11	0.06	0.07
24	2.9	244	9.6	24	25	63	51	6.3	1.2	0.10	0.05	0.07
25	2.3	181	11	21	23	51	37	5.2	0.92	0.10	3.5	0.04
26	30	266	12	20	21	38	35	4.6	0.80	0.12	65	0.07
27	160	1,350	11	17	20	30	28	4.0	0.74	0.22	39	0.06
28	43	345	11	15	21	25	26	3.6	0.68	0.13	4.1	0.06
29	32	115	11	16	---	21	23	3.5	0.63	0.09	0.98	0.05
30	19	66	9.0	16	---	18	21	3.3	0.61	0.07	0.54	0.05
31	13	---	10	16	---	15	---	3.0	---	0.04	0.36	---
MEAN	13.7	202	63.3	269	124	24.3	79.5	80.0	19.8	0.27	4.44	0.07
MAX	160	2,070	833	2,140	1,580	191	758	1,110	268	0.63	65	0.25
MIN	0.53	4.9	9.0	8.3	13	7.4	9.9	3.0	0.61	0.04	0.01	0.03
IN.	0.20	2.79	0.90	3.83	1.59	0.35	1.10	1.14	0.27	0.00	0.06	0.00

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

MEAN	19.5	29.9	25.9	40.9	52.6	65.5	62.0	48.8	49.8	46.0	14.4	15.4
MAX	108	202	155	269	143	214	172	211	245	317	124	142
(WY)	(1950)	(2005)	(2004)	(2005)	(1949)	(2004)	(1969)	(2003)	(1969)	(1969)	(2004)	(2003)
MIN	0.00	0.00	0.00	0.00	0.00	0.06	3.63	1.25	0.24	0.00	0.00	0.00
(WY)	(1953)	(1954)	(1954)	(1964)	(1964)	(1954)	(1963)	(1965)	(1963)	(1954)	(1964)	(1953)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

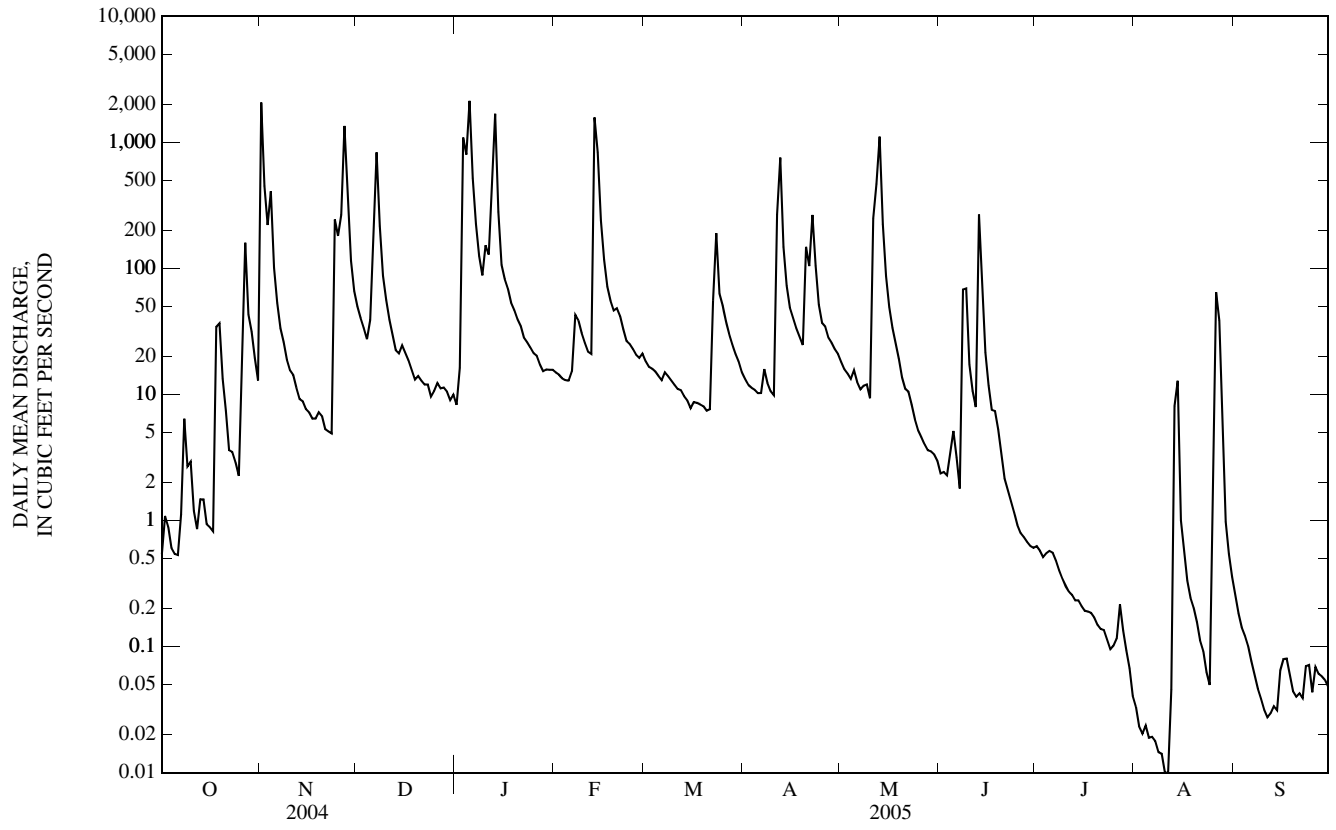
FOR 2005 WATER YEAR

FOR PERIOD OF RECORD

ANNUAL MEAN	68.4	72.9	39.9
HIGHEST ANNUAL MEAN			103
LOWEST ANNUAL MEAN			5.65
HIGHEST DAILY MEAN	2,070	Nov 1	2,140
LOWEST DAILY MEAN	0.48	Sep 30	0.01
ANNUAL SEVEN-DAY MINIMUM	0.56	Sep 25	0.01
MAXIMUM PEAK FLOW	---		2,740
MAXIMUM PEAK STAGE	---		19.88
INSTANTANEOUS LOW FLOW	---		0.00
ANNUAL RUNOFF (INCHES)	11.49		12.22
10 PERCENT EXCEEDS	104		137
50 PERCENT EXCEEDS	12		11
90 PERCENT EXCEEDS	0.88		0.07

e Estimated

06909500 MONITEAU CREEK NEAR FAYETTE, MO—Continued



06910450 MISSOURI RIVER AT JEFFERSON CITY, MO

LOCATION.--Lat 38°35'14", long 92°10'43", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 6, T.44 N., R.11 W., Cole County, Hydrologic Unit 10300102, on center pier of northbound bridge of U.S. Highways 54/63 at Jefferson City and at river mile 143.9.

DRAINAGE AREA.--507,500 mi².

PERIOD OF RECORD.--Oct. 30, 1931 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 519.71 ft above National Geodetic Vertical Datum of 1929.

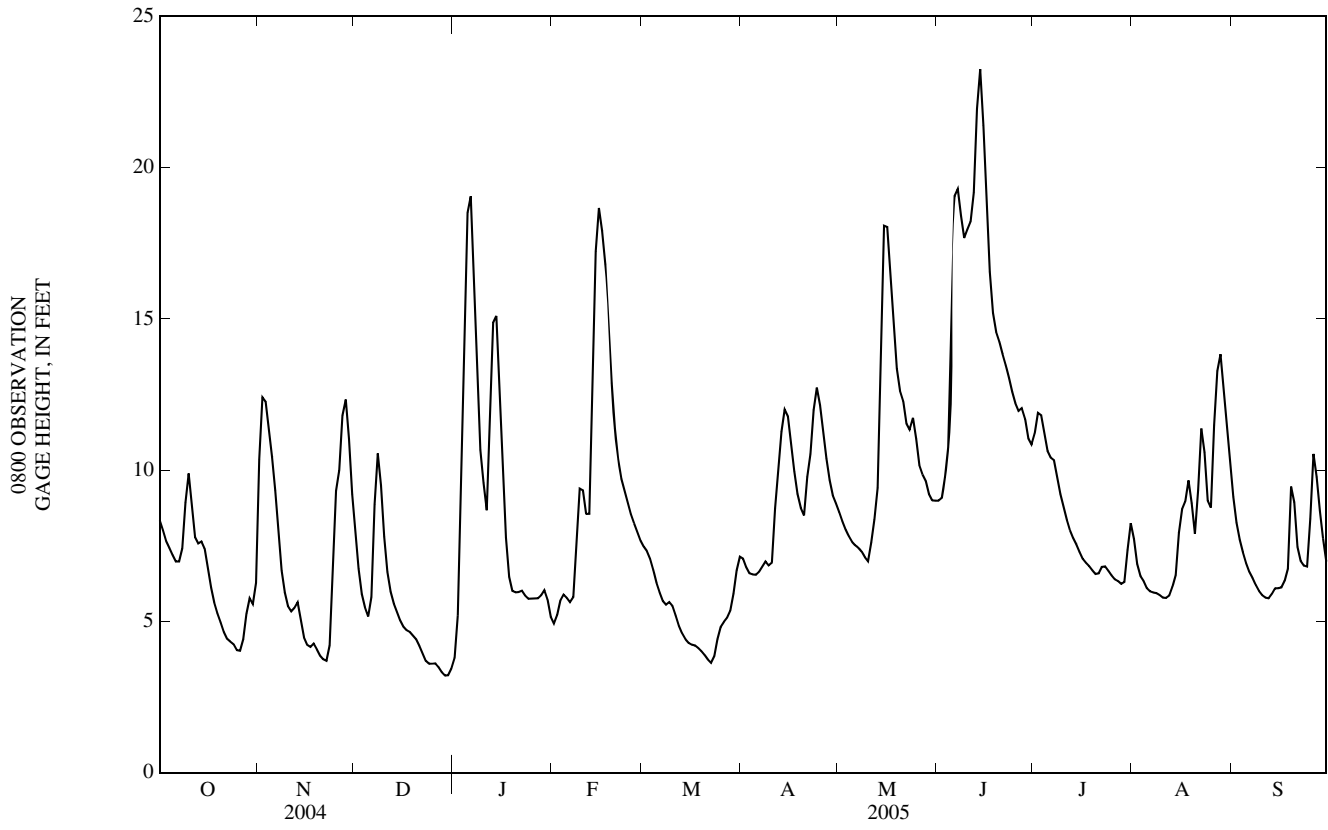
REMARKS.--U.S.G.S. satellite telemeter at station.

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	8.33	6.70	8.57	3.54	4.97	7.58	7.23	8.85	8.99	10.85	8.44	9.98
2	8.34	12.19	7.52	3.91	4.91	7.42	7.00	8.50	8.99	11.40	7.37	8.68
3	7.84	12.52	6.35	5.85	5.36	7.28	6.69	8.21	9.13	12.14	6.67	8.05
4	7.55	12.14	5.69	9.96	5.86	6.97	6.54	7.95	10.09	11.65	6.41	7.53
5	7.36	10.85	5.35	15.82	5.90	6.57	6.56	7.75	11.09	11.02	6.29	7.17
6	7.11	10.23	5.07	19.85	5.72	6.13	6.53	7.57	18.19	10.44	6.00	6.81
7	6.92	8.88	6.17	18.65	5.60	5.87	6.70	7.49	19.50	10.40	5.99	6.56
8	7.01	7.36	10.23	15.26	5.91	5.58	6.87	7.40	19.19	10.29	5.94	6.37
9	7.62	6.34	10.71	11.77	8.44	5.54	7.04	7.26	18.02	9.54	5.93	6.11
10	9.59	5.76	8.89	10.12	9.87	5.69	6.75	7.06	17.50	9.05	5.84	5.95
11	10.04	5.37	7.26	9.30	9.07	5.42	7.03	6.95	18.18	8.65	5.76	5.82
12	8.33	5.31	6.32	8.36	8.29	5.08	9.59	7.93	18.23	8.23	5.78	5.77
13	7.51	5.52	5.82	12.95	8.69	4.74	10.07	8.60	19.65	7.91	5.89	5.76
14	7.61	5.69	5.48	15.83	14.31	4.54	11.87	9.82	23.10	7.68	6.28	5.98
15	7.66	4.73	5.24	14.73	18.69	4.35	12.07	15.98	23.33	7.48	6.66	6.15
16	7.28	4.34	4.93	11.54	18.65	4.26	11.64	19.13	20.43	7.21	8.56	6.07
17	6.54	4.17	4.78	8.87	17.53	4.22	10.58	17.49	17.66	7.00	8.79	6.15
18	5.92	4.15	4.68	7.22	16.45	4.20	9.66	15.53	16.00	6.91	9.06	6.44
19	5.47	4.33	4.64	6.10	14.19	4.08	9.00	14.15	14.79	6.79	9.96	6.89
20	5.16	3.95	4.48	5.96	12.22	3.98	8.63	12.96	14.45	6.64	8.37	10.74
21	4.87	3.83	4.38	5.96	10.96	3.84	8.44	12.45	14.14	6.53	7.66	8.04
22	4.54	3.71	4.10	5.98	10.07	3.69	10.43	12.20	13.68	6.62	10.17	7.17
23	4.37	3.69	3.87	6.03	9.55	3.60	10.58	11.21	13.36	6.89	11.98	6.91
24	4.31	4.47	3.61	5.77	9.19	3.97	12.69	11.40	12.90	6.78	9.89	6.81
25	4.21	8.36	3.60	5.74	8.78	4.64	12.74	11.89	12.44	6.62	8.55	6.81
26	3.97	9.79	3.61	5.76	8.43	4.91	11.85	10.60	12.10	6.47	8.87	9.18
27	4.06	10.10	3.61	5.76	8.15	5.02	10.98	9.94	11.89	6.36	12.80	11.21
28	4.59	12.66	3.42	5.77	7.87	5.17	10.08	9.81	12.13	6.32	13.51	9.05
29	5.58	12.17	3.27	5.91	---	5.44	9.47	9.56	11.47	6.20	13.99	8.46
30	5.86	10.46	3.18	6.10	---	6.15	9.01	9.03	10.84	6.36	12.08	7.37
31	5.42	---	3.24	5.53	---	6.96	---	8.99	---	7.86	11.19	---
MEAN	6.48	7.33	5.42	9.03	9.77	5.25	9.14	10.44	15.05	8.20	8.41	7.33
MAX	10.04	12.66	10.71	19.85	18.69	7.58	12.74	19.13	23.33	12.14	13.99	11.21
MIN	3.97	3.69	3.18	3.54	4.91	3.60	6.53	6.95	8.99	6.20	5.76	5.76

MISSOURI RIVER MAIN STEM

06910450 MISSOURI RIVER AT JEFFERSON CITY, MO—Continued



06910750 MOREAU RIVER NEAR JEFFERSON CITY, MO

LOCATION.--Lat 38°31'45", long 92°11'31", SE ¼ NW ¼ SE ¼ sec.25, T.44 N., R.11 W., Cole County, Hydrologic Unit 10300102, near right bank on downstream side of right pier of bridge on Tanner Bridge Road, 3 mi south of Jefferson City, 15.8 mi downstream from confluence of North and South Moreau Creeks, and at mile 17.

DRAINAGE AREA.--561 mi².

PERIOD OF RECORD.--December 1947 to September 1974, November 13, 2000 to current year. Published as Moureau River near Jefferson City (06910500), 1948 to 1974. Discharge measurements only October 1956 to September 1957.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 546.33 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 17, 1958, nonrecording gage, and Aug. 17, 1958, to May 21, 1969, water-stage recorder at site 10 mi upstream and at datum 16.4 ft higher, drainage area 531 mi².

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1905 reached a stage of 38.2 ft, flood of 1929 reached a stage of 32.91 ft, and flood of 1943 reached a stage of 35.1 ft, present site, from information and floodmarks 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	12	2,040	772	122	211	202	106	212	33	13	3.2	94
2	11	3,620	623	123	205	192	97	179	32	12	3.2	73
3	10	776	492	5,470	203	176	90	150	30	12	3.0	60
4	9.4	815	404	11,900	206	165	86	133	29	11	3.2	52
5	9.9	800	350	16,300	204	158	83	124	29	10	11	45
6	9.1	391	410	25,000	197	151	87	109	28	9.8	15	39
7	9.7	279	3,540	6,530	242	192	596	102	26	9.4	9.4	35
8	12	216	3,080	952	393	402	995	96	26	9.0	6.7	31
9	23	176	851	722	487	304	401	92	26	8.6	5.4	28
10	21	152	573	842	444	221	271	89	199	8.6	3.8	25
11	20	1,000	444	896	381	185	330	84	569	8.6	2.8	22
12	33	2,640	368	906	337	163	5,430	79	108	8.8	2.7	20
13	48	895	315	9,240	3,690	147	1,210	74	296	8.8	14	26
14	161	449	271	10,300	6,480	134	554	78	372	8.6	25	120
15	142	319	233	1,010	1,310	125	380	80	268	8.5	58	1,100
16	96	259	209	596	697	117	296	99	176	8.1	132	1,070
17	65	225	197	454	498	112	246	109	102	7.7	209	418
18	65	224	189	383	401	108	211	93	67	7.0	326	217
19	54	401	180	346	348	105	184	77	50	6.8	2,160	165
20	48	316	169	346	322	101	163	67	40	5.9	385	2,920
21	43	261	158	363	308	98	754	59	34	6.1	160	1,550
22	40	223	146	356	281	110	1,390	62	30	6.0	93	471
23	40	205	129	305	254	129	837	57	26	5.4	1,170	261
24	34	3,210	136	253	235	131	410	51	23	4.7	900	169
25	30	9,100	118	229	224	157	283	47	21	4.2	2,450	126
26	30	2,440	110	228	214	169	241	43	19	4.3	4,590	101
27	39	3,800	104	226	200	168	230	41	18	4.7	3,420	86
28	73	4,730	103	212	198	154	224	42	16	4.5	798	120
29	217	1,080	107	203	---	140	231	39	15	4.1	372	172
30	155	874	114	203	---	132	236	36	14	4.0	213	121
31	109	---	120	212	---	117	---	34	---	3.4	136	---
MEAN	53.8	1,397	484	3,072	685	160	555	85.1	90.7	7.54	570	325
MAX	217	9,100	3,540	25,000	6,480	402	5,430	212	569	13	4,590	2,920
MIN	9.1	152	103	122	197	98	83	34	14	3.4	2.7	20
IN.	0.11	2.78	1.00	6.31	1.27	0.33	1.10	0.17	0.18	0.02	1.17	0.65

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

MEAN	294	252	234	438	449	616	549	597	588	304	132	272
MAX	2,076	1,397	1,040	3,072	1,866	3,169	2,256	2,815	2,548	2,237	570	2,987
(WY)	(1970)	(2005)	(1969)	(2005)	(1951)	(1973)	(1973)	(1970)	(1948)	(1951)	(2005)	(1965)
MIN	0.81	1.03	4.29	5.57	7.75	11.9	9.36	29.7	13.2	4.41	1.78	1.35
(WY)	(1954)	(1954)	(1954)	(1964)	(1954)	(1954)	(1956)	(1965)	(1952)	(1959)	(1953)	(1960)

SUMMARY STATISTICS

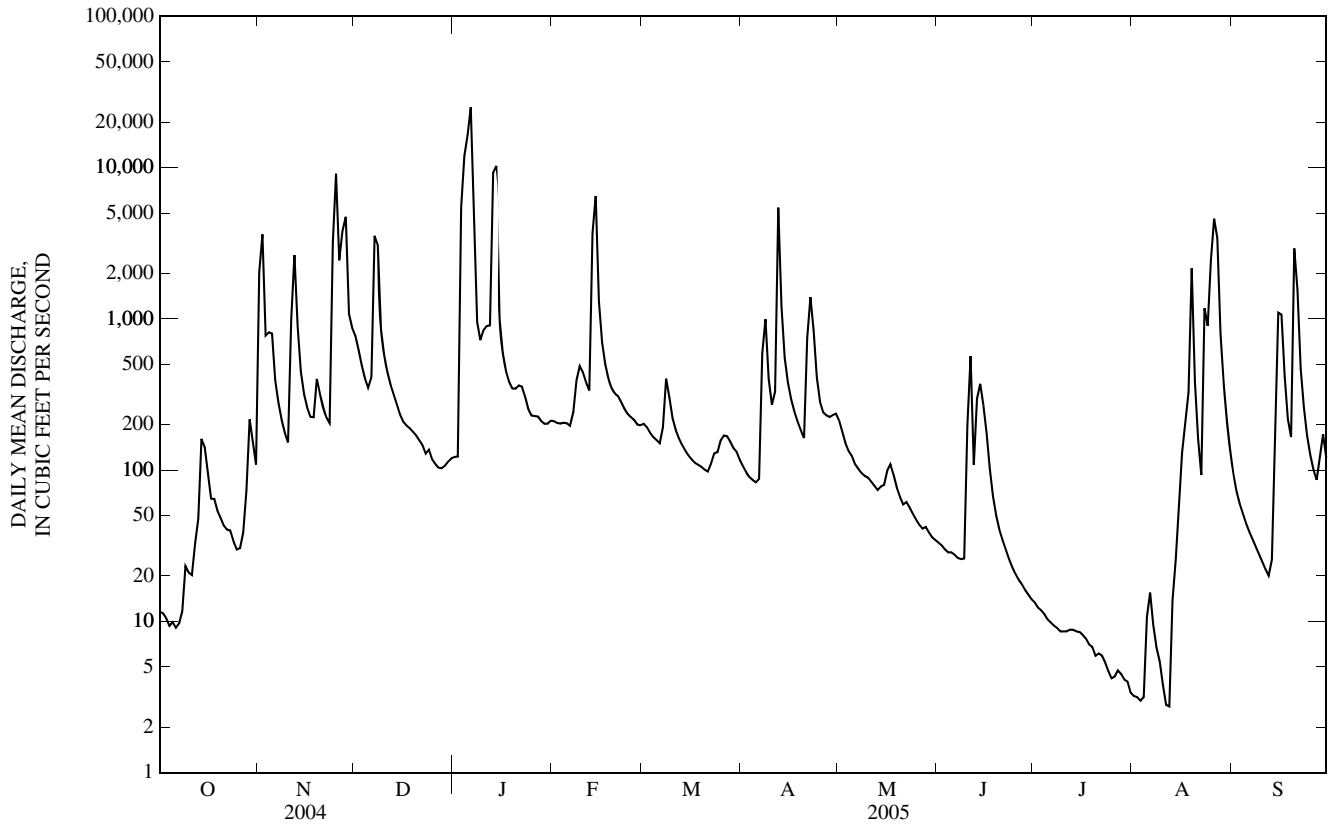
FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

FOR PERIOD OF RECORD

ANNUAL MEAN	487	624	387
HIGHEST ANNUAL MEAN			881
LOWEST ANNUAL MEAN			50.4
HIGHEST DAILY MEAN	13,700	Mar 5	25,000
LOWEST DAILY MEAN	9.1	Oct 6	2.7
ANNUAL SEVEN-DAY MINIMUM	10	Oct 1	3.4
MAXIMUM PEAK FLOW	---		27,600
MAXIMUM PEAK STAGE	---		29.93
INSTANTANEOUS LOW FLOW	---		2.3
ANNUAL RUNOFF (INCHES)	11.81		15.09
10 PERCENT EXCEEDS	873		969
50 PERCENT EXCEEDS	194		151
90 PERCENT EXCEEDS	33		9.4

06910750 MOREAU RIVER NEAR JEFFERSON CITY, MO—Continued



06916675 MIAMI CREEK NEAR BUTLER, MO

LOCATION.--Lat 38°12'41", long 94°22'40", in NW ¼ SW ¼ NE ¼ sec.6, T.39 N., R.31 W., Bates County, Hydrologic Unit 10290102, on right downstream pier on County Road SW1067 bridge, 2.25 mi southwest of junction of Highways 71 and 52.

DRAINAGE AREA.--137 mi².

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

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.97	165	160	18	39	29	13	6.9	6.0	6.4	0.37	3.0
2	0.67	137	109	18	39	26	13	6.3	4.9	5.7	0.35	2.0
3	0.77	75	81	322	37	25	13	6.3	8.7	4.0	0.36	2.3
4	0.81	269	65	555	33	26	13	5.8	422	4.2	0.55	2.2
5	0.53	99	183	2,340	30	25	12	5.6	366	4.1	2.0	0.55
6	0.55	47	771	1,820	44	23	25	5.2	78	3.3	1.2	0.31
7	1.0	34	574	307	215	22	59	5.2	39	2.7	0.60	0.25
8	1.3	27	307	151	132	20	32	5.0	30	2.5	e0.47	0.22
9	0.71	23	167	127	75	19	21	4.5	1,170	2.3	0.35	0.21
10	0.56	24	110	240	55	17	17	4.3	382	1.7	0.44	0.18
11	0.96	427	79	232	46	16	18	4.2	290	1.2	0.54	0.17
12	1.5	160	65	343	48	16	131	4.3	363	1.2	0.43	0.16
13	1.7	61	53	1,090	978	14	72	490	704	1.2	1.4	1.7
14	1.1	39	41	181	646	13	38	563	330	1.2	11	9.2
15	1.4	32	35	114	162	13	27	120	93	0.92	41	14
16	1.1	27	33	123	97	12	22	54	56	0.92	27	12
17	1.1	24	32	75	69	12	19	35	60	0.78	10	3.1
18	0.63	24	30	49	56	13	15	27	111	0.61	4.3	10
19	0.52	24	27	41	52	12	15	21	105	0.60	2.2	4.3
20	0.70	24	28	46	58	11	13	17	34	0.73	2.0	2.6
21	0.73	24	24	51	64	11	12	13	15	0.83	1.3	1.3
22	0.92	23	26	51	52	19	11	12	13	0.67	2.2	0.81
23	2.7	29	22	62	44	66	9.4	8.2	11	0.60	5.5	0.49
24	7.4	1,190	e26	32	45	64	8.4	7.3	8.5	0.53	4.1	0.39
25	5.8	939	e17	32	43	39	7.9	6.7	6.6	0.42	205	0.46
26	9.0	318	e19	37	38	30	8.1	5.4	5.1	0.43	267	0.29
27	320	597	e19	36	34	25	8.0	4.7	4.1	1.2	154	0.20
28	130	369	17	34	32	22	8.5	4.2	3.4	1.1	40	0.31
29	47	214	17	33	---	20	8.8	3.7	2.9	0.98	18	1.0
30	32	250	19	37	---	17	8.1	6.3	3.0	0.83	10	0.86
31	25	---	19	38	---	14	---	7.7	---	0.51	5.5	---
MEAN	19.3	190	102	279	117	22.3	22.6	47.4	158	1.75	26.4	2.49
MAX	320	1,190	771	2,340	978	66	131	563	1,170	6.4	267	14
MIN	0.52	23	17	18	30	11	7.9	3.7	2.9	0.42	0.35	0.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)
MEAN	27.1	49.5	34.8	84.2	43.6	75.3	44.3	129	82.3	12.4	7.77	4.00
MAX	87.3	190	102	279	117	251	92.7	380	158	46.8	26.4	8.55
(WY)	(2002)	(2005)	(2005)	(2005)	(2005)	(2004)	(2002)	(2002)	(2005)	(2004)	(2005)	(2003)
MIN	0.95	0.03	0.06	0.14	0.54	11.0	3.91	33.1	19.0	0.30	0.25	0.71
(WY)	(2004)	(2003)	(2003)	(2003)	(2003)	(2002)	(2003)	(2003)	(2002)	(2003)	(2003)	(2002)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

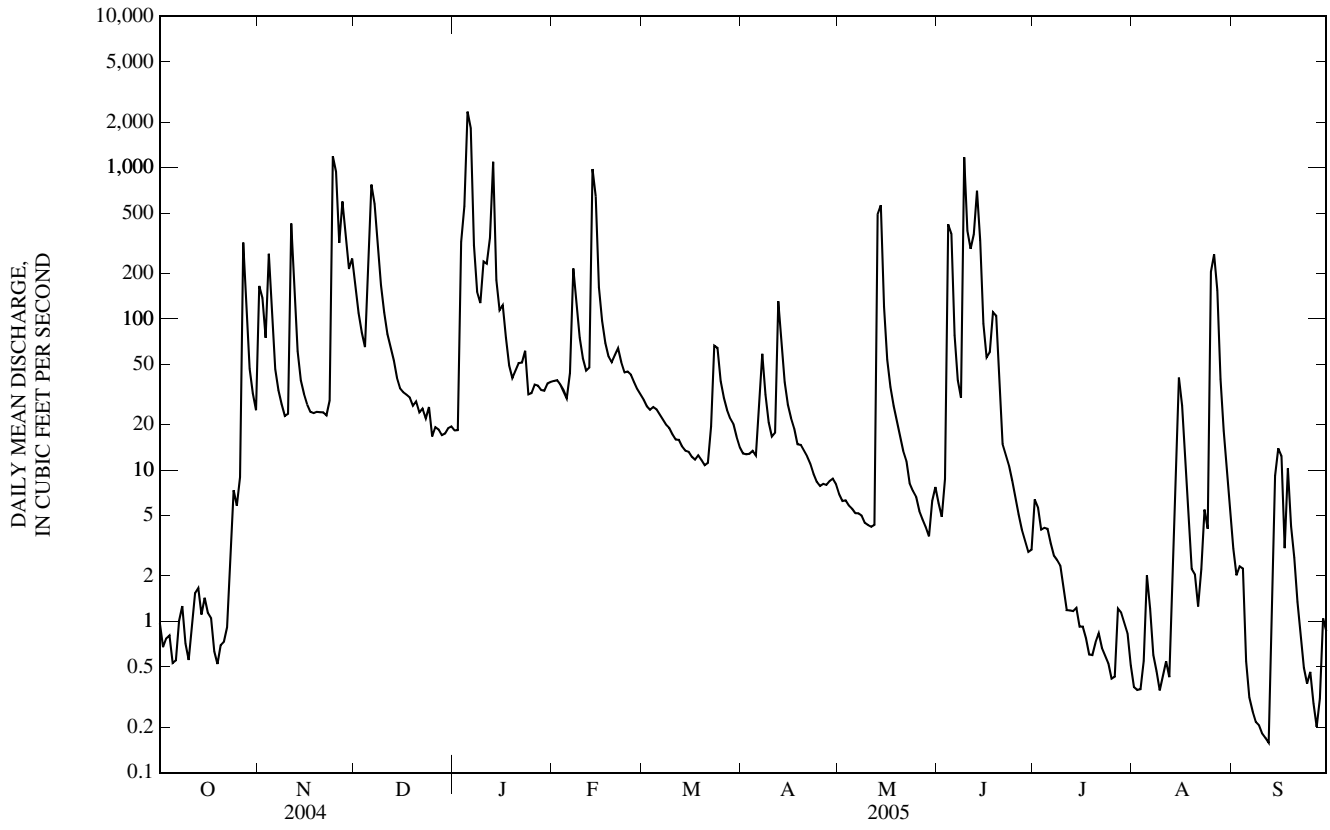
FOR 2005 WATER YEAR

WATER YEARS 2002 - 2005

ANNUAL MEAN	74.9	81.9	49.6
HIGHEST ANNUAL MEAN			81.9
LOWEST ANNUAL MEAN			9.28
HIGHEST DAILY MEAN	2,530	Mar 5	2,530
LOWEST DAILY MEAN	0.52	Oct 19	0.00
ANNUAL SEVEN-DAY MINIMUM	0.75	Sep 30	0.00
MAXIMUM PEAK FLOW	---		2,930
MAXIMUM PEAK STAGE	---		20.81
INSTANTANEOUS LOW FLOW	---		0.00
10 PERCENT EXCEEDS	165		83
50 PERCENT EXCEEDS	17		4.2
90 PERCENT EXCEEDS	1.8		0.12

e Estimated

06916675 MIAMI CREEK NEAR BUTLER, MO—Continued



06917060 LITTLE OSAGE RIVER AT HORTON, MO

LOCATION.--Lat 37°59'41", long 94°22'09", in SW ¼ NE ¼ NW ¼ sec. 17, T.37 N., R.31 W., Vernon County, Hydrologic Unit 10290103, on left bank at the upstream side of the southbound bridge of U.S. Highway 71, 4 mi above Marmaton River, and 1 mi north of Horton.

DRAINAGE AREA.--498 mi².

PERIOD OF RECORD.--October 2000 to current year. Nov. 18, 1988 to Sept. 30, 2000, stage only.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft above sea level.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of October 1986 reached a stage of 59.4 ft (by U.S. Army Corps of Engineers).

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	1.4	349	e1,010	112	196	250	124	51	31	32	3.4	e255
2	1.6	693	e628	111	203	224	114	47	31	34	3.4	e200
3	1.4	476	e471	705	192	203	107	43	e40	29	3.6	151
4	1.4	1,060	e412	e1,800	176	188	101	40	e66	29	4.4	125
5	1.0	1,080	e561	e5,530	167	182	94	37	e537	30	5.2	100
6	0.85	591	1,890	e6,080	208	169	162	35	e464	26	4.3	83
7	1.1	312	e2,770	e4,110	505	155	983	33	e299	25	3.8	71
8	2.3	217	e1,710	e2,650	663	145	871	31	e210	21	3.5	61
9	4.3	164	e958	e1,690	618	135	403	30	e662	19	3.1	51
10	4.9	137	e634	e1,090	492	129	211	29	e649	16	2.9	45
11	30	904	e471	e872	353	125	167	27	e415	14	2.8	39
12	239	1,670	e381	e927	301	118	702	26	e1,720	13	2.9	36
13	71	1,400	324	e2,770	1,170	110	375	318	e1,990	13	6.0	33
14	29	853	279	e2,240	2,190	102	240	1,750	e1,100	11	11	248
15	17	348	242	e1,360	e1,730	95	186	e1,910	e668	8.8	218	899
16	11	238	219	e845	e990	91	150	e899	e466	8.4	294	446
17	8.0	196	207	e548	e575	90	128	e368	e351	6.7	89	250
18	6.2	181	199	e419	e390	85	116	e226	e251	332	36	450
19	4.5	210	189	e367	e322	82	102	164	e182	150	21	767
20	4.3	241	172	e349	301	79	94	e108	e139	30	15	433
21	4.7	228	160	e339	298	77	87	e81	e114	18	13	259
22	7.7	218	149	330	281	211	81	e68	e93	13	63	167
23	8.6	307	137	293	260	460	72	e58	e76	10	e252	117
24	23	e2,480	150	257	352	467	64	e52	e61	9.4	e75	85
25	54	e3,630	150	235	479	361	59	52	e51	8.4	e1,350	66
26	54	e2,970	122	231	438	277	58	47	e42	7.6	e3,250	54
27	359	e1,880	108	223	336	227	58	44	34	7.5	e2,930	46
28	356	e1,340	105	210	280	194	56	44	29	7.0	e1,870	40
29	443	e1,520	107	198	---	171	55	42	25	5.9	e1,080	36
30	348	e1,540	110	196	---	153	54	40	22	4.5	e646	31
31	214	---	113	196	---	138	---	36	---	4.0	e395	---
MEAN	74.6	914	488	1,203	517	177	202	217	361	30.4	408	188
MAX	443	3,630	2,770	6,080	2,190	467	983	1,910	1,990	332	3,250	899
MIN	0.85	137	105	111	167	77	54	26	22	4.0	2.8	31

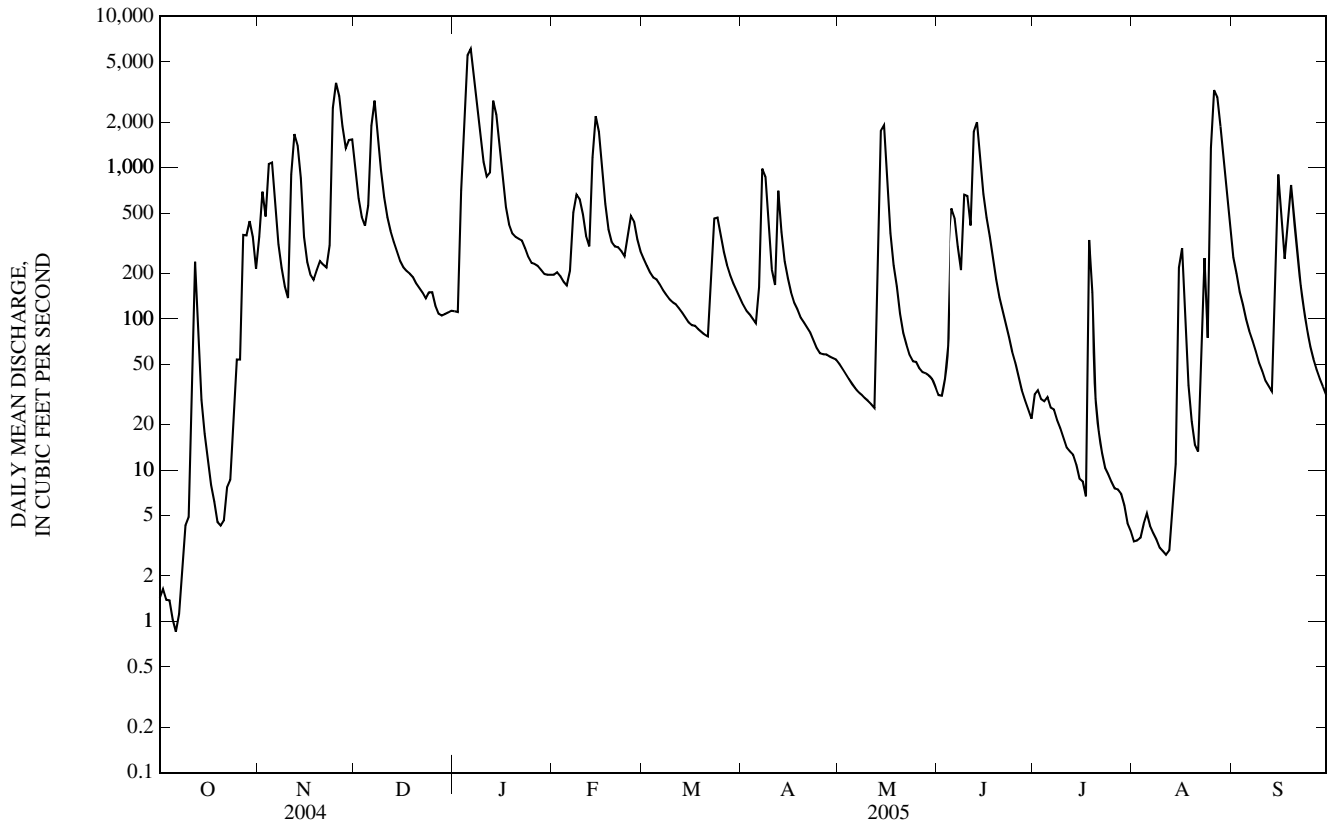
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	30.3	198	168	317	266	438	295	535	430	104	92.4	75.1
MAX	74.6	914	488	1,203	561	1,291	500	1,530	812	371	408	188
(WY)	(2005)	(2005)	(2005)	(2005)	(2001)	(2004)	(2004)	(2002)	(2001)	(2004)	(2005)	(2005)
MIN	0.00	0.04	0.60	1.16	10.3	43.8	68.8	174	256	0.05	0.17	0.00
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2003)	(2001)	(2003)	(2003)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
ANNUAL MEAN	401		397		246	
HIGHEST ANNUAL MEAN					397	
LOWEST ANNUAL MEAN					83.1	
HIGHEST DAILY MEAN	6,180	Mar 6	6,080	Jan 6	6,180	Mar 6, 2004
LOWEST DAILY MEAN	0.85	Oct 6	0.85	Oct 6	0.00	Many Days 2002-2004
ANNUAL SEVEN-DAY MINIMUM	1.2	Oct 1	1.2	Oct 1	0.00	At Times
MAXIMUM PEAK FLOW	---		6,680	Jan 5,6	8,510	Mar 7, 2004
MAXIMUM PEAK STAGE	---		44.85	Jan 5,6	45.71	Mar 7, 2004
INSTANTANEOUS LOW FLOW	---		0.83	Oct 6,7	0.00	Many Days 2001-2004
10 PERCENT EXCEEDS	1,070		1,070		630	
50 PERCENT EXCEEDS	150		153		36	
90 PERCENT EXCEEDS	7.1		8.2		0.02	

e Estimated

06917060 LITTLE OSAGE RIVER AT HORTON, MO—Continued



06917630 EAST DRYWOOD CREEK AT PRAIRIE STATE PARK, MO

LOCATION.--Lat 37°32'07", long 94°33'29", in NE ¼ NW ¼ NE ¼ sec.16, T.32 N., R.33 W., Barton County, Hydrologic Unit 10290104, on left bank in Prairie State Park on north fence line, approximately 3 mi southwest of Liberal, and 17 mi northwest of Lamar.

DRAINAGE AREA.--3.38 mi².

PERIOD OF RECORD.--November 7, 2001 to current year.

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

REMARKS.--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	0.00	e0.00	4.4	1.8	1.5	1.0	1.6	1.8	0.03	0.00	0.00	0.00
2	0.00	e0.00	3.2	2.1	1.4	0.82	1.7	0.90	0.03	0.00	0.00	0.00
3	0.00	e0.00	2.8	6.6	1.2	0.81	1.2	0.67	0.05	0.00	0.00	0.00
4	0.00	0.00	2.4	89	1.2	1.7	0.91	0.56	0.10	0.00	0.00	0.00
5	0.00	0.00	15	177	1.3	1.5	0.97	0.49	0.06	0.00	0.00	0.00
6	0.00	0.00	26	18	5.4	1.2	24	0.47	0.12	0.00	0.00	0.00
7	0.00	0.00	43	4.1	13	1.1	18	0.42	0.13	0.00	0.00	0.00
8	0.00	0.00	5.6	3.6	6.2	0.82	3.9	0.45	0.05	0.00	0.00	0.00
9	0.00	0.00	3.4	5.9	7.7	0.91	2.3	0.52	0.18	0.00	0.00	0.00
10	0.00	0.00	2.9	6.9	3.5	0.77	1.8	0.49	0.20	0.00	0.00	0.00
11	0.00	0.12	2.5	4.1	2.5	0.62	2.9	0.46	0.20	0.00	0.00	0.00
12	0.00	0.84	2.3	39	3.2	0.57	3.1	0.34	0.40	0.00	0.00	0.00
13	0.00	0.70	2.0	43	36	0.48	2.1	0.46	34	0.00	0.00	0.00
14	0.00	0.68	1.8	4.3	6.1	0.46	1.6	54	7.8	0.00	0.00	0.00
15	0.00	0.62	1.6	2.2	2.6	0.49	1.3	4.5	1.5	0.00	0.00	0.00
16	0.00	0.65	1.7	1.4	1.6	0.45	1.0	1.9	0.82	0.00	0.00	0.00
17	0.00	0.70	1.6	1.2	1.4	0.41	0.90	1.2	0.64	0.00	0.00	0.00
18	0.00	0.85	1.6	1.1	1.2	0.43	0.79	0.90	0.45	0.00	0.00	0.00
19	0.00	0.95	1.4	1.3	1.2	0.49	0.69	0.82	0.37	0.00	0.00	0.00
20	0.00	0.95	1.4	1.6	1.2	0.48	0.64	0.77	0.23	0.00	0.00	0.00
21	0.00	1.1	1.4	1.6	1.2	1.8	0.68	0.66	0.19	0.00	0.00	0.00
22	0.00	1.3	1.2	1.5	1.1	7.9	1.2	0.50	0.13	0.00	0.00	0.00
23	0.00	3.3	0.77	0.99	4.1	5.0	1.3	0.41	0.11	0.00	0.00	0.00
24	0.00	46	0.57	1.0	5.5	2.4	1.5	0.46	0.08	0.00	0.00	0.00
25	0.00	11	0.59	1.1	2.3	3.4	1.7	0.47	0.04	0.00	0.00	0.00
26	0.00	3.5	0.67	1.1	1.6	2.4	2.2	0.32	0.02	0.00	0.00	0.00
27	0.00	25	0.75	1.0	1.4	1.9	1.4	0.22	0.00	0.00	0.00	0.00
28	0.00	6.0	0.95	1.0	1.2	1.6	1.4	0.20	0.00	0.00	0.00	0.00
29	e0.00	49	1.1	1.2	---	1.3	1.7	0.17	0.00	0.00	0.00	0.00
30	e0.00	11	1.1	1.6	---	1.00	3.6	0.10	0.00	0.00	0.00	0.00
31	e0.00	---	1.3	1.6	---	0.82	---	0.05	---	0.00	0.00	---
MEAN	0.00	5.48	4.42	13.8	4.21	1.45	2.94	2.44	1.60	0.00	0.00	0.00
MAX	0.00	49	43	177	36	7.9	24	54	34	0.00	0.00	0.00
MIN	0.00	0.00	0.57	0.99	1.1	0.41	0.64	0.05	0.00	0.00	0.00	0.00
IN.	0.00	0.10	0.08	0.26	0.07	0.03	0.05	0.05	0.03	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

	2002	2003	2004	2005	2002	2003	2004	2005	2002	2003	2004	2005
MEAN	0.65	3.43	4.32	5.23	1.71	4.19	3.95	6.76	1.63	0.48	0.15	1.17
MAX	1.95	5.48	12.6	13.8	4.21	10.5	9.42	17.3	4.03	1.93	0.58	4.69
(WY)	(2004)	(2005)	(2004)	(2005)	(2005)	(2004)	(2004)	(2002)	(2002)	(2004)	(2003)	(2003)
MIN	0.00	0.00	0.00	0.00	0.43	0.85	0.43	2.44	0.33	0.00	0.00	0.00
(WY)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2005)	(2004)	(2003)	(2002)	(2002)

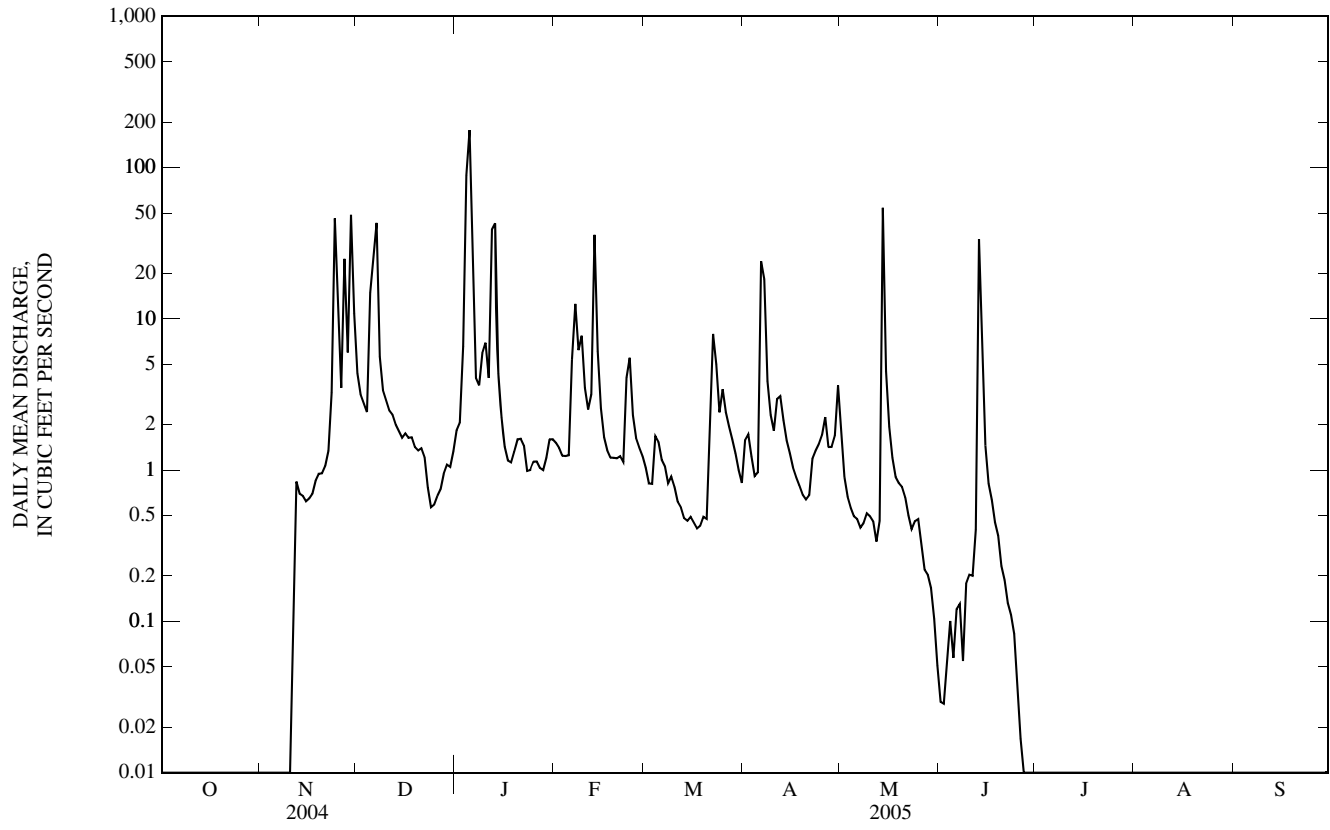
SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 2002 - 2005
ANNUAL MEAN	3.51	3.02	2.90
HIGHEST ANNUAL MEAN			4.32
LOWEST ANNUAL MEAN			1.36
HIGHEST DAILY MEAN	213	177	213
LOWEST DAILY MEAN	0.00	0.00	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	0.00	0.00
MAXIMUM PEAK FLOW	---	348 ^a	751 ^b
MAXIMUM PEAK STAGE	---	4.47	6.22
INSTANTANEOUS LOW FLOW	---	0.00	0.00
ANNUAL RUNOFF (INCHES)	0.77	0.66	0.64
10 PERCENT EXCEEDS	3.4	4.1	3.9
50 PERCENT EXCEEDS	0.53	0.49	0.44
90 PERCENT EXCEEDS	0.00	0.00	0.00

e Estimated

^a From rating extended above 198 ft³/s on basis of indirect measurement.

^b Discharge determined by indirect measurement of peak flow.

06917630 EAST DRYWOOD CREEK AT PRAIRIE STATE PARK, MO—Continued



06917680 DRY WOOD CREEK NEAR DEERFIELD, MO

LOCATION.--Lat 37°47'53", long 94°30'55", in SW ¼ SE ¼ sec.24, T.35 N., R.33 W., Vernon County, Hydrologic Unit 10290104, on left downstream pier on State Highway KK bridge, 7.2 mi southwest of Nevada.

DRAINAGE AREA.--358 mi².

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

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

REMARKS.--Records good except for estimated daily discharges, which are poor. U.S.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	5.0	72	636	74	147	156	87	122	24	25	5.5	8.2
2	6.0	137	374	72	144	136	81	85	25	25	5.4	6.0
3	4.5	167	274	114	131	126	81	65	30	24	5.2	4.8
4	3.2	606	219	1,120	120	123	79	56	53	29	4.5	4.9
5	2.8	328	329	7,550	113	141	80	50	116	42	e4.3	3.7
6	3.0	118	1,810	11,500	130	128	597	47	62	42	e4.0	e2.7
7	3.2	73	1,780	e4,950	568	114	1,680	44	49	32	e4.0	e2.6
8	4.6	55	1,330	e2,200	584	107	779	43	43	25	e3.9	3.3
9	4.3	44	534	1,090	473	101	341	41	815	21	e4.1	3.9
10	4.5	41	334	906	419	101	231	40	500	19	e4.1	3.5
11	9.4	1,530	251	674	286	97	191	39	220	17	e4.0	e2.6
12	19	2,540	205	1,010	237	88	235	37	754	15	e4.1	e2.4
13	34	920	178	4,970	1,300	83	208	41	2,100	13	e4.2	e2.6
14	26	266	148	5,420	1,540	74	152	650	2,450	12	4.5	3.7
15	19	168	127	1,990	608	70	125	814	826	12	9.1	4.8
16	15	132	117	583	338	68	111	220	235	11	15	10
17	12	113	116	333	248	68	102	131	157	9.8	18	19
18	11	103	113	272	214	66	91	95	119	21	17	15
19	11	121	106	242	193	64	84	73	92	49	14	10
20	10	132	95	245	191	60	78	60	73	38	11	7.0
21	9.0	116	89	249	186	64	73	50	61	30	8.5	5.2
22	8.3	156	86	230	164	627	69	44	52	22	7.0	4.4
23	8.8	236	78	185	167	430	64	40	46	16	6.4	3.5
24	12	2,550	84	150	380	249	57	37	42	12	15	3.3
25	13	3,940	65	149	348	199	52	37	37	9.1	51	3.2
26	18	2,020	62	154	241	210	55	43	32	7.5	853	2.8
27	37	1,150	64	147	197	167	65	38	28	7.3	1,080	e2.7
28	82	1,000	66	131	175	145	67	32	25	6.3	403	e2.7
29	48	785	69	128	---	130	67	28	23	5.7	26	e2.6
30	42	1,400	74	140	---	113	87	26	23	5.8	16	e2.6
31	48	---	76	151	---	98	---	24	---	5.8	12	---
MEAN	17.2	701	319	1,520	352	142	202	102	304	19.7	84.6	5.12
MAX	82	3,940	1,810	11,500	1,540	627	1,680	814	2,450	49	1,080	19
MIN	2.8	41	62	72	113	60	52	24	23	5.7	3.9	2.4
IN.	0.06	2.18	1.03	4.90	1.02	0.46	0.63	0.33	0.95	0.06	0.27	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	37.1	226	353	485	169	363	379	741	241	130	30.9	154
MAX	72.1	701	1,063	1,520	352	1,120	924	2,058	308	480	84.6	596
(WY)	(2002)	(2005)	(2004)	(2005)	(2005)	(2004)	(2004)	(2002)	(2002)	(2004)	(2005)	(2003)
MIN	3.02	4.64	9.05	6.60	27.5	51.9	77.3	102	120	6.34	4.18	5.12
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2003)	(2005)	(2003)	(2003)	(2002)	(2005)

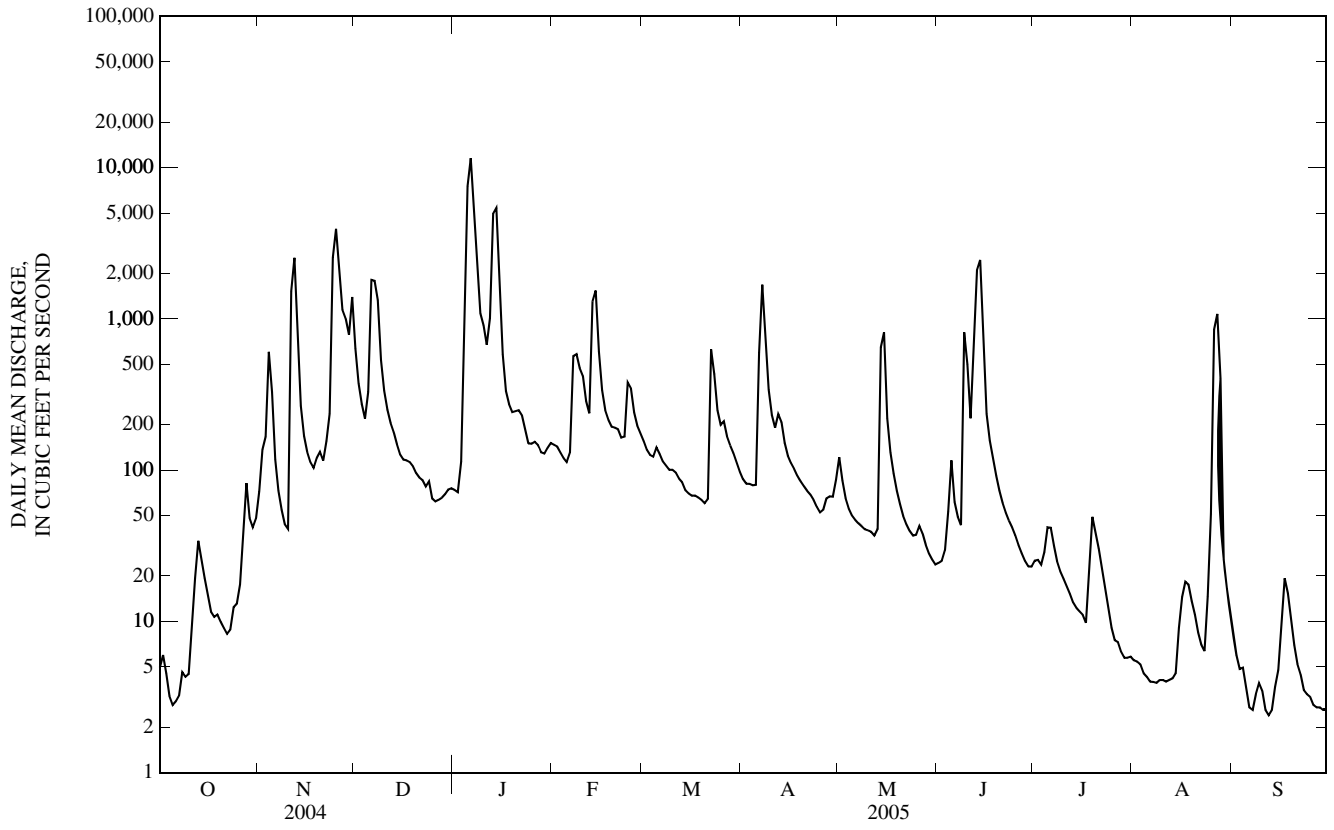
SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 2002 - 2005
ANNUAL MEAN	392	314	277
HIGHEST ANNUAL MEAN			415
LOWEST ANNUAL MEAN			116
HIGHEST DAILY MEAN	12,000	11,500	12,000
LOWEST DAILY MEAN	2.8	e2.4	2.0
ANNUAL SEVEN-DAY MINIMUM	3.7	2.8	2.2
MAXIMUM PEAK FLOW	---	12,700	14,100
MAXIMUM PEAK STAGE	---	21.94	22.56
INSTANTANEOUS LOW FLOW	---	--- ^a	1.9
ANNUAL RUNOFF (INCHES)	14.90	11.90	10.50
10 PERCENT EXCEEDS	920	706	472
50 PERCENT EXCEEDS	104	72	39
90 PERCENT EXCEEDS	9.3	4.5	4.3

e Estimated

^a Minimum not determined, may have occurred during period of estimated record.

06917680 DRY WOOD CREEK NEAR DEERFIELD, MO—Continued



06918060 MARMATON RIVER NEAR NEVADA, MO

LOCATION.--Lat 37°51'43", long 94°23'57", in NW ¼ SW ¼ NW ¼ sec.31, T.36 N., R.31 W., Vernon County, Hydrologic Unit 10290104, on left downstream wingwall of Old Pumphouse Bridge, 26 mi above Osage River, and 2.0 mi northwest of Nevada.

DRAINAGE AREA.--1,074 mi².

PERIOD OF RECORD.--October 2003 to current year. October 2000 to September 2003, records collected at site 5 mi downstream, published as Marmaton River below Nevada (06918065).

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

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of October 1986 reached a stage of 62.2 ft (by U.S. Army Corps of Engineers), at former site.

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	6.8	145	e2,960	207	397	608	247	204	51	45	6.8	177
2	8.3	414	e1,790	200	401	517	221	203	55	53	6.7	123
3	9.3	567	1,300	790	379	442	210	155	62	43	6.2	97
4	17	2,070	882	3,780	337	403	202	128	101	51	6.2	77
5	17	2,300	888	9,450	305	392	203	111	1,230	95	4.6	60
6	14	933	4,650	18,100	317	383	666	102	1,050	86	4.2	48
7	12	430	5,830	20,200	1,330	338	3,780	96	556	69	4.3	37
8	14	281	5,710	e10,100	2,350	309	3,430	89	394	56	4.1	29
9	34	215	3,700	e6,320	1,760	288	1,490	83	1,480	43	4.6	23
10	23	179	1,960	e3,780	1,520	280	782	79	2,040	34	4.6	20
11	24	2,060	1,150	e2,770	1,040	280	570	75	1,240	28	5.1	18
12	78	5,930	810	3,790	782	259	765	71	3,950	24	4.7	14
13	107	5,300	660	7,480	2,850	238	643	87	5,800	20	6.7	13
14	76	2,470	544	9,150	5,560	220	477	926	6,440	18	18	22
15	52	927	448	e6,860	3,990	203	358	3,380	5,650	15	72	26
16	38	568	393	e3,800	2,120	193	291	1,670	3,170	14	130	24
17	28	439	369	e2,040	1,230	186	260	615	1,570	12	121	28
18	20	381	357	e1,140	810	184	235	324	e865	62	62	48
19	15	398	339	e902	651	180	214	228	e523	128	37	31
20	13	455	310	778	607	172	193	181	e362	93	28	23
21	12	432	285	780	610	166	180	148	e254	55	28	19
22	11	444	270	743	544	899	167	122	e164	37	68	15
23	11	646	233	612	512	1,450	164	104	126	24	149	13
24	9.4	4,340	234	477	1,260	1,030	155	91	105	16	74	9.8
25	13	7,410	231	428	1,830	679	129	83	89	13	713	8.3
26	23	8,160	176	431	1,250	592	124	90	74	10	4,920	18
27	59	e5,790	170	426	850	502	131	90	61	8.9	5,960	29
28	135	e4,410	173	389	685	416	145	90	49	7.5	5,030	29
29	206	e3,630	183	364	---	361	145	79	40	6.8	2,800	30
30	160	e4,400	195	372	---	316	153	66	36	7.3	e1,250	30
31	117	---	207	389	---	279	---	56	---	7.1	e445	---
MEAN	44.0	2,204	1,207	3,776	1,296	412	558	317	1,253	38.1	709	38.0
MAX	206	8,160	5,830	20,200	5,560	1,450	3,780	3,380	6,440	128	5,960	177
MIN	6.8	145	170	200	305	166	124	56	36	6.8	4.1	8.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

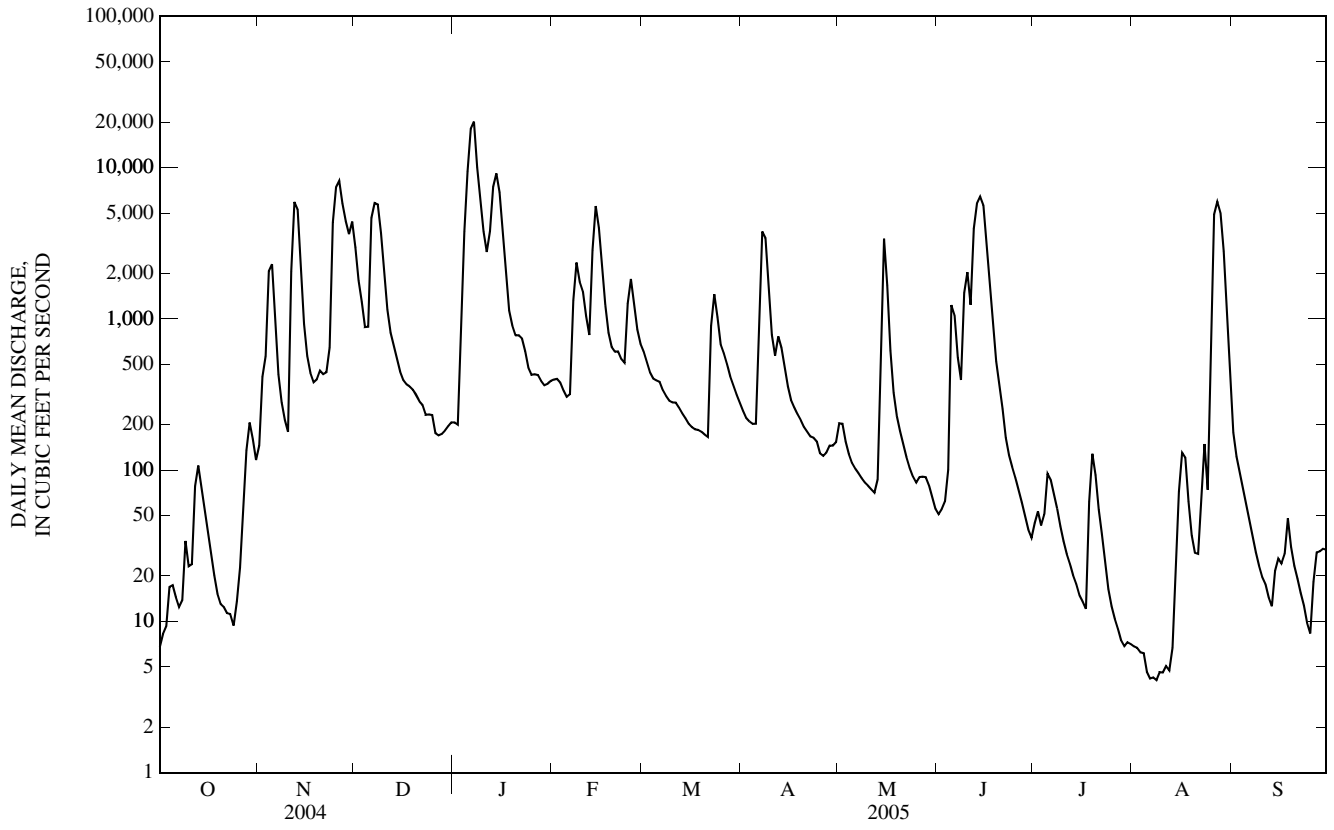
MEAN	67.4	1,270	1,863	2,387	827	1,705	1,307	772	1,023	654	370	24.7
MAX	90.8	2,204	2,519	3,776	1,296	2,998	2,056	1,227	1,253	1,269	709	38.0
(WY)	(2004)	(2005)	(2004)	(2005)	(2005)	(2004)	(2004)	(2004)	(2005)	(2004)	(2005)	(2005)
MIN	44.0	336	1,207	998	375	412	558	317	794	38.1	31.3	11.5
(WY)	(2005)	(2004)	(2005)	(2004)	(2004)	(2005)	(2005)	(2005)	(2004)	(2005)	(2004)	(2004)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005	
ANNUAL MEAN	1,103		985		1,025	
HIGHEST ANNUAL MEAN					1,065	
LOWEST ANNUAL MEAN					985	
HIGHEST DAILY MEAN	16,400	Mar 6	20,200	Jan 7	20,200	Jan 7, 2005
LOWEST DAILY MEAN	6.8	Oct 1	4.1	Aug 8	4.1	Aug 8, 2005
ANNUAL SEVEN-DAY MINIMUM	7.9	Sep 25	4.5	Aug 5	4.5	Aug 5, 2005
MAXIMUM PEAK FLOW	---		22,600	Jan 7	22,600	Jan 7, 2005
MAXIMUM PEAK STAGE	---		27.64	Jan 7	27.64	Jan 7, 2005
INSTANTANEOUS LOW FLOW	---		3.0	Aug 8	3.0	Aug 8, 2005
10 PERCENT EXCEEDS	3,740		3,400		3,490	
50 PERCENT EXCEEDS	296		207		248	
90 PERCENT EXCEEDS	14		14		15	

e Estimated

06918060 MARMATON RIVER NEAR NEVADA, MO—Continued



06918070 OSAGE RIVER ABOVE SCHELL CITY, MO

LOCATION.--Lat 38°03'21", long 94°08'43", in SE ¼ SW ¼ NW ¼ sec.20, T.38 N., R.29 W., Bates County, Hydrologic Unit 10290105, on downstream side of left pier of bridge on State Highway M, 0.8 mi downstream from Shaw Branch, 0.2 mi upstream from McKenzie Creek, and 3.0 mi northwest of Schell City.

DRAINAGE AREA.--5,410 mi², by U.S. Army Corps of Engineers.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1981 to current year.

GAGE.--Water-stage recorder and slope gage 1.7 mi downstream. Datum of gage is 700.00 ft above National Geodetic Vertical Datum of 1929.

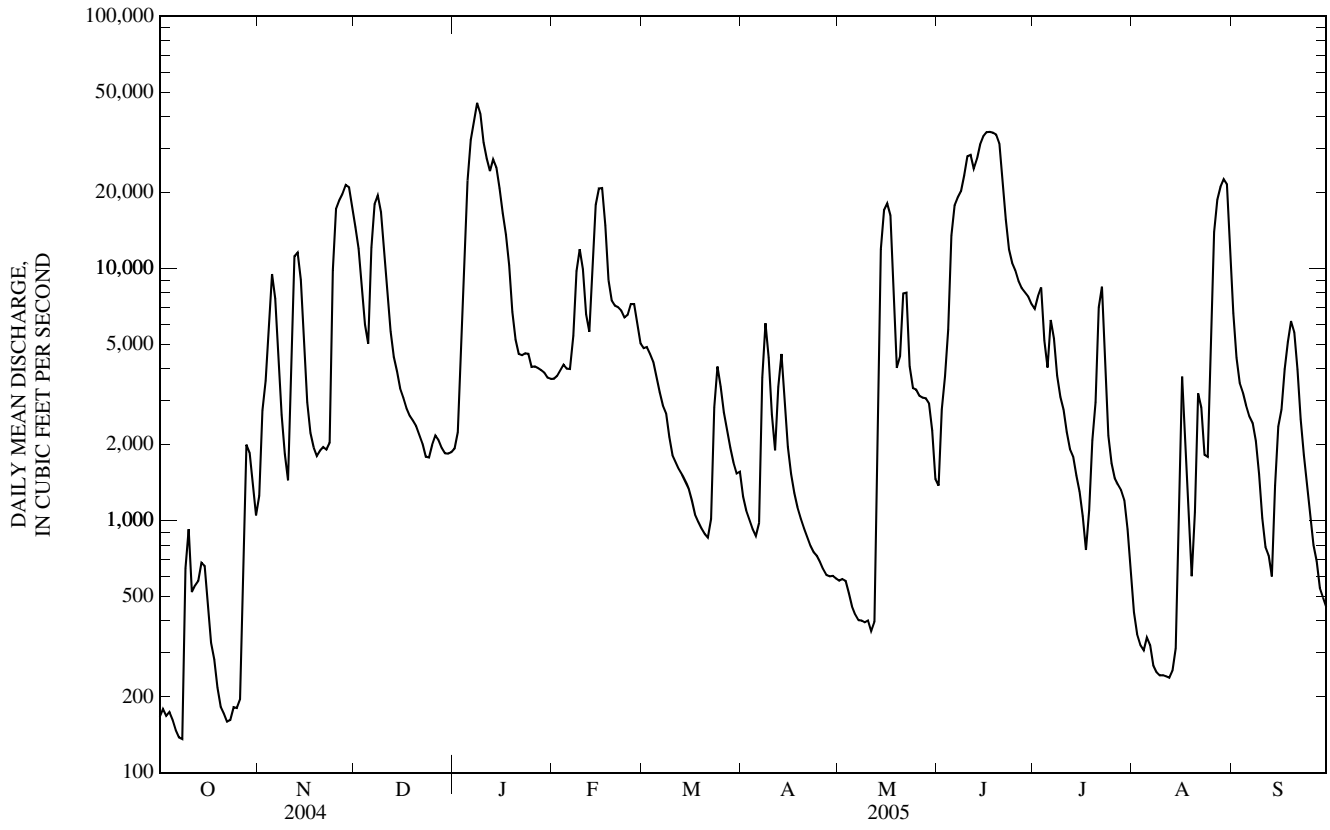
REMARKS.--No estimated daily discharges. Water-discharge records poor. Discharge is calculated using fall computations due to backwater from Harry S. Truman Reservoir. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 133,000 ft³/s, Oct. 5, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 49,200 ft³/s, Jan. 8; minimum, 136 ft³/s, Oct. 8.

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	167	1,250	14,600	1,930	3,650	4,830	1,250	577	1,380	6,910	432	6,650
2	179	2,730	12,000	2,240	3,750	4,880	1,100	586	2,760	7,750	354	4,420
3	168	3,580	8,660	4,190	3,950	4,580	1,010	577	3,730	8,410	320	3,520
4	174	5,900	5,980	9,600	4,150	4,260	926	516	5,720	5,170	306	3,220
5	162	9,500	5,030	22,300	4,000	3,720	869	457	13,500	4,050	344	2,860
6	147	7,590	12,100	32,300	3,990	3,230	979	424	17,800	6,250	321	2,600
7	138	4,440	18,000	38,600	5,400	2,860	3,690	402	19,100	5,270	266	2,440
8	136	2,630	19,500	45,400	9,750	2,660	6,060	401	20,300	3,750	250	2,070
9	647	1,830	16,700	41,200	11,900	2,140	4,430	395	23,400	3,100	243	1,530
10	925	1,440	12,000	31,700	9,920	1,820	2,640	401	27,900	2,760	243	1,020
11	521	3,580	8,040	27,300	6,570	1,710	1,900	364	28,200	2,240	241	787
12	552	11,200	5,640	24,300	5,610	1,600	3,390	396	24,900	1,920	238	727
13	577	11,600	4,460	27,100	10,500	1,520	4,580	2,120	27,200	1,800	254	600
14	680	9,010	3,910	25,200	17,900	1,430	2,980	11,900	31,100	1,510	311	1,380
15	661	5,050	3,340	20,800	20,800	1,340	1,960	17,000	33,500	1,300	1,130	2,360
16	450	2,950	3,070	16,500	20,900	1,200	1,530	18,100	34,700	1,040	3,720	2,760
17	327	2,230	2,790	13,600	14,800	1,060	1,290	16,200	34,800	765	2,150	3,980
18	281	1,950	2,600	10,300	8,990	988	1,130	8,350	34,600	1,100	1,060	5,110
19	217	1,810	2,490	6,720	7,470	932	1,020	4,030	34,000	2,080	601	6,180
20	183	1,890	2,370	5,230	7,120	887	933	4,470	31,300	2,950	1,080	5,600
21	172	1,960	2,190	4,580	7,020	857	861	7,960	22,900	7,010	3,190	3,980
22	159	1,910	2,010	4,530	6,810	1,010	796	8,020	15,600	8,460	2,810	2,520
23	162	2,030	1,790	4,610	6,400	2,820	750	4,090	11,900	4,390	1,820	1,820
24	182	9,840	1,780	4,580	6,540	4,080	726	3,350	10,500	2,170	1,790	1,400
25	181	17,200	2,000	4,070	7,220	3,400	685	3,310	9,820	1,690	4,730	1,030
26	195	18,600	2,180	4,090	7,230	2,680	641	3,130	8,920	1,470	13,900	800
27	462	19,700	2,080	4,030	6,090	2,280	608	3,070	8,360	1,390	18,700	690
28	2,000	21,400	1,940	3,950	5,040	1,950	601	3,060	8,030	1,320	21,100	540
29	1,860	21,000	1,850	3,860	---	1,700	604	2,920	7,730	1,200	22,600	495
30	1,410	17,300	1,840	3,690	---	1,540	589	2,280	7,230	924	21,600	454
31	1,050	---	1,870	3,650	---	1,560	---	1,460	---	637	12,000	---
MEAN	488	7,437	5,962	14,590	8,338	2,307	1,684	4,204	18,700	3,251	4,455	2,451
MAX	2,000	21,400	19,500	45,400	20,900	4,880	6,060	18,100	34,800	8,460	22,600	6,650
MIN	136	1,250	1,780	1,930	3,650	857	589	364	1,380	637	238	454
IN.	0.10	1.53	1.27	3.11	1.61	0.49	0.35	0.90	3.86	0.69	0.95	0.51



06918070 OSAGE RIVER ABOVE SCHELL CITY, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1979 to September 1993, November 1994 to current year. Formerly published as Osage River near Schell City (06918080).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1979 to September 1981.

WATER TEMPERATURE: March 1979 to September 1981.

SUSPENDED-SEDIMENT: February 1991 to September 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,950 microsiemens per centimeter, Oct. 11, 1980; minimum daily, 114 microsiemens per centimeter, June 12, 1981.

WATER TEMPERATURE: Maximum daily, 32.0 °C, July 11, 1980; minimum daily, 0.0 °C, Feb. 5, 1980, and Feb. 11-14, 1981.

SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean, 4,020 mg/L, Feb. 21, 1997; minimum daily mean, 8 mg/L, Aug. 4 and 5, 1993, and Jan. 10-12, 1995.

SUSPENDED-SEDIMENT LOAD: Maximum daily, 160,000 tons, Feb. 21, 1997; minimum daily, 1.7 tons, Nov. 7-13, 1991.

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 ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)			
Date			Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, field, mg/L (00450)	Carbonate, wat unfltrd, 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 15...	1430	Environmental													
MAR 28...	1245	Environmental													
APR 12...	1030	Environmental													
MAY 24...	0840	Environmental													
JUN 28...	1240	Environmental													
JUN 28...	1241	Replicate													
JUL 25...	1415	Environmental													
NOV 15...	7.96		105	104	127	<1	7.30	.2	33.3	209	109	1.0	<.04	.48	
MAR 28...	--		--	--	--	--	--	--	--	--	35	.70	<.04	.57	
APR 12...	--		--	--	--	--	--	--	--	--	432d	1.2	<.04	.11	
MAY 24...	9.71		135	134	164	<1	7.16	.2	29.2	225	256d	1.2	<.04	1.19	
JUN 28...	--		--	--	--	--	--	--	--	--	120	.97	E.02n	.54	
JUN 28...	--		--	--	--	--	--	--	--	--	129	.96	E.03n	.57	
JUL 25...	7.52		102	104	127	<1	5.98	.2	21.0	181	178d	.79	<.04	.62	

06918070 OSAGE RIVER ABOVE SCHELL 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 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	.09	.13	.31	700	940k	2	2,270d	1.2	<.04	.11	1.8	30
MAR 28...	.012	E.01n	E.04n	.08	32k	100	--	--	--	--	--	--	--
APR 12...	E.004n	<.02	E.03n	.38	2,500	2,500	--	--	--	--	--	--	--
MAY 24...	.068	.03	.08	.33	430	660k	9	3,790d	1.5	<.04	.16	2.0	6
JUN 28...	.008	.02	.06	.29	41k	41k	--	--	--	--	--	--	--
JUN 28...	.009	.02	.06	.28	<4b	50k	--	--	--	--	--	--	--
JUL 25...	.017	.05	.09	.27	380	370	2	3,070d	1.6	<.04	.12	2.0	E5n

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)	2,6-Di-ethyl-aniline water, fltrd 0.7µ GF µg/L (82660)	CIAT, water, fltrd, µg/L (04040)	Aceto-chlor, water, fltrd, µg/L (49260)	Ala-chlor, water, fltrd, µg/L (46342)	alpha-HCH, water, fltrd, µg/L (34253)	Atra-zine, water, fltrd, µg/L (39632)
NOV 15...	<.08	3.71	15.1	E.01n	.9	27.0	14	<.006	E.016	<.006	<.004	<.005	.406
MAR 28...	--	--	--	--	--	--	--	<.006	E.005mn	<.006	<.005	<.005	.076
APR 12...	--	--	--	--	--	--	--	<.006	E.015m	.025	.014	<.005	.278
MAY 24...	<.08	5.51	3.2	.01	.9	1.3	18	<.006	E.489m	.500	.147	<.005	6.75
JUN 28...	--	--	--	--	--	--	--	<.006	E.123m	.176	.128	<.005	1.32
JUN 28...	--	--	--	--	--	--	--	<.006	E.128m	.180	.130	<.005	1.31
JUL 25...	<.08	4.89	8.4	E.01n	.4	E.4n	14	<.006	E.049m	.017	.019	<.005	.608

Date	Azin-phos-methyl, water, fltrd 0.7µ GF µg/L (82686)	Ben-flur-alin, water, fltrd 0.7µ GF µg/L (82673)	Butyl-ate, water, fltrd, µg/L (04028)	Car-baryl, water, fltrd 0.7µ GF µg/L (82680)	Carbo-furan, water, fltrd 0.7µ GF µg/L (82674)	Chlor-pyri-fos water, fltrd, µg/L (38933)	cis-Per-methrin water fltrd 0.7µ GF µg/L (82687)	Cyana-zine, water, fltrd, µg/L (04041)	DCPA, water fltrd 0.7µ GF µg/L (82682)	Diazi-non, water, fltrd, µg/L (39572)	Diel-drin, water, fltrd, µg/L (39381)	Disul-foton, water, fltrd 0.7µ GF µg/L (82677)	EPTC, water, fltrd 0.7µ GF µg/L (82668)
NOV 15...	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.005	<.02	<.002
MAR 28...	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004
APR 12...	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004
MAY 24...	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004
JUN 28...	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004
JUN 28...	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004
JUL 25...	<.050m	<.010	<.004	<.041m	<.020mc	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004

06918070 OSAGE RIVER ABOVE SCHELL CITY, MO—Continued

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

Date	Ethal- flur- alin, water, fltrd 0.7µ GF (82663)	Etho- prop, water, fltrd 0.7µ GF (82672)	Fonofos water, fltrd, µg/L (04095)	Lindane water, fltrd, µg/L (39341)	Linuron water fltrd 0.7µ GF (82666)	Malathion, water, fltrd, µg/L (39532)	Methyl para- thion, water, fltrd 0.7µ GF (82667)	Metola- chlor, water, fltrd, µg/L (39415)	Metri- buzin, water, fltrd, µg/L (82630)	Moli- nate, water, fltrd 0.7µ GF (82671)	Naprop- amide, water, fltrd 0.7µ GF (82684)	p,p'- DDE, water, fltrd, µg/L (34653)	Para- thion, water, fltrd, µg/L (39542)
	NOV 15...	<.009	<.005	<.003	<.004	<.035	<.027	<.006	.016	<.006	<.002	<.007	<.003
MAR 28...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	E.005n	<.006	<.003	<.007	<.003	<.010
APR 12...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.029	<.006	<.003	<.007	<.003	<.010
MAY 24...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.957	.019	<.003	<.007	<.003	<.010
JUN 28...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.334	<.006	<.003	<.007	<.003	<.010
JUL 28...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.339	<.006	<.003	<.007	<.003	<.010
JUL 25...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.096	<.006	<.003	<.007	<.003	<.010
Date	Peb- ulate, water, fltrd 0.7µ GF (82669)	Pendi- meth- alin, water, fltrd 0.7µ GF (82683)	Phorate water fltrd 0.7µ GF (82664)	Prome- ton, water, fltrd, µg/L (04037)	Propy- zamide, water, fltrd 0.7µ GF (82676)	Propa- chlor, water, fltrd, µg/L (04024)	Pro- panil, water, fltrd 0.7µ GF (82679)	Propar- gite, water, fltrd 0.7µ GF (82685)	Sima- zine, water, fltrd, µg/L (04035)	Tebu- thiuron water fltrd 0.7µ GF (82670)	Terba- cil, water, fltrd 0.7µ GF (82665)	Terbu- fos, water, fltrd 0.7µ GF (82675)	Thio- bencarb water fltrd 0.7µ GF (82681)
	NOV 15...	<.004	<.022	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02
MAR 28...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034m	<.02	<.010
APR 12...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.20	<.005	<.02	<.034m	<.02	<.010
MAY 24...	<.004	<.022	<.011	E.01n	<.004	<.025	<.011	<.02	.023	<.02	<.034m	<.02	<.010
JUN 28...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.007	<.02	<.034m	<.02	<.010
JUL 28...	<.004	<.022	<.011	Mn	<.004	<.025	<.011	<.02	.006	<.02	<.034m	<.02	<.010
JUL 25...	<.004	<.022	<.011	.02	<.004	<.025	<.011	<.02	<.005	<.02	<.034m	<.02	<.010

OSAGE RIVER BASIN

06918070 OSAGE RIVER ABOVE SCHELL CITY, MO—Continued

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

Date	Tri- allate, water, fltrd 0.7 μ GF μ g/L (82678)	Tri- flur- alin, water, fltrd 0.7 μ GF μ g/L (82661)
NOV 15...	<.002	<.009
MAR 28...	<.006	<.009
APR 12...	<.006	<.009
MAY 24...	<.006	<.009
JUN 28...	<.006	<.009
JUL 25...	<.006	<.009

Remark codes used in this table:

- < -- 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
- m -- Value is highly variable by this method
- n -- Below the LRL and above the LT-MDL

06918440 SAC RIVER NEAR DADEVILLE, MO

LOCATION.--Lat 37°26'35", long 93°41'06", in NE ¼ NE ¼ NW ¼ sec.9, T.31 N., R.25 W., Dade County, Hydrologic Unit 10290106, on downstream side of bridge on State Highway 245, 2 mi upstream from Cave Spring Branch, and 2 mi south of Dadeville.

DRAINAGE AREA.--257 mi².

PERIOD OF RECORD.--June 1966 to current year. Annual maximum only, for water years 1965-66.

GAGE.--Water-stage recorder. Datum of gage is 869.78 ft above National Geodetic Vertical Datum of 1929 (levels by the Missouri State Highway and Transportation Commission). Prior to June 1966, crest-stage gage at same site and datum.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	1,220	845	131	e280	295	163	131	50	34	13	14
2	11	925	677	127	e268	281	161	125	49	35	12	14
3	10	521	563	145	e252	270	156	120	47	31	12	13
4	11	544	487	335	e239	262	152	115	45	30	11	13
5	11	453	444	5,090	e233	249	147	112	45	29	12	16
6	12	381	469	e3,830	e228	238	171	109	44	27	13	16
7	13	325	973	e1,680	e244	233	227	105	42	26	15	13
8	16	279	945	e1,390	e263	222	247	101	44	25	18	12
9	15	246	782	e1,040	e313	220	250	100	54	23	18	11
10	13	226	645	e816	e332	212	244	97	53	23	17	9.5
11	22	419	532	e769	e325	204	252	92	58	23	14	8.6
12	35	766	466	e606	e306	197	256	87	82	23	13	8.0
13	32	559	408	e2,900	568	186	245	85	79	22	13	7.4
14	27	450	358	e1,870	754	177	231	137	126	22	17	11
15	26	382	327	e1,200	697	171	219	121	96	21	28	23
16	26	337	304	e978	607	166	209	104	86	20	31	160
17	25	303	282	e814	534	163	200	95	77	19	25	69
18	23	283	265	e698	482	158	191	87	67	18	22	53
19	22	263	245	e634	443	150	185	82	59	20	21	44
20	21	241	230	e589	417	145	178	78	53	19	20	36
21	21	221	219	e537	392	142	172	73	49	18	20	30
22	21	214	201	e503	364	146	168	70	45	17	22	26
23	23	203	185	e476	361	154	160	68	43	15	21	23
24	24	479	172	e444	367	150	152	65	40	15	21	21
25	23	772	166	e409	348	161	150	64	38	14	25	20
26	37	635	160	e364	329	157	162	62	36	14	22	19
27	55	631	153	e323	317	162	150	60	34	17	20	19
28	57	590	149	e306	311	167	146	58	33	16	19	19
29	51	730	145	e299	---	168	144	55	32	15	19	19
30	45	1,050	142	e287	---	168	140	54	31	14	17	17
31	48	---	137	e281	---	162	---	52	---	14	15	---
MEAN	25.4	488	390	964	378	191	188	89.2	54.6	21.3	18.3	25.5
MAX	57	1,220	973	5,090	754	295	256	137	126	35	31	160
MIN	10	203	137	127	228	142	140	52	31	14	11	7.4
IN.	0.11	2.12	1.75	4.32	1.53	0.86	0.81	0.40	0.24	0.10	0.08	0.11

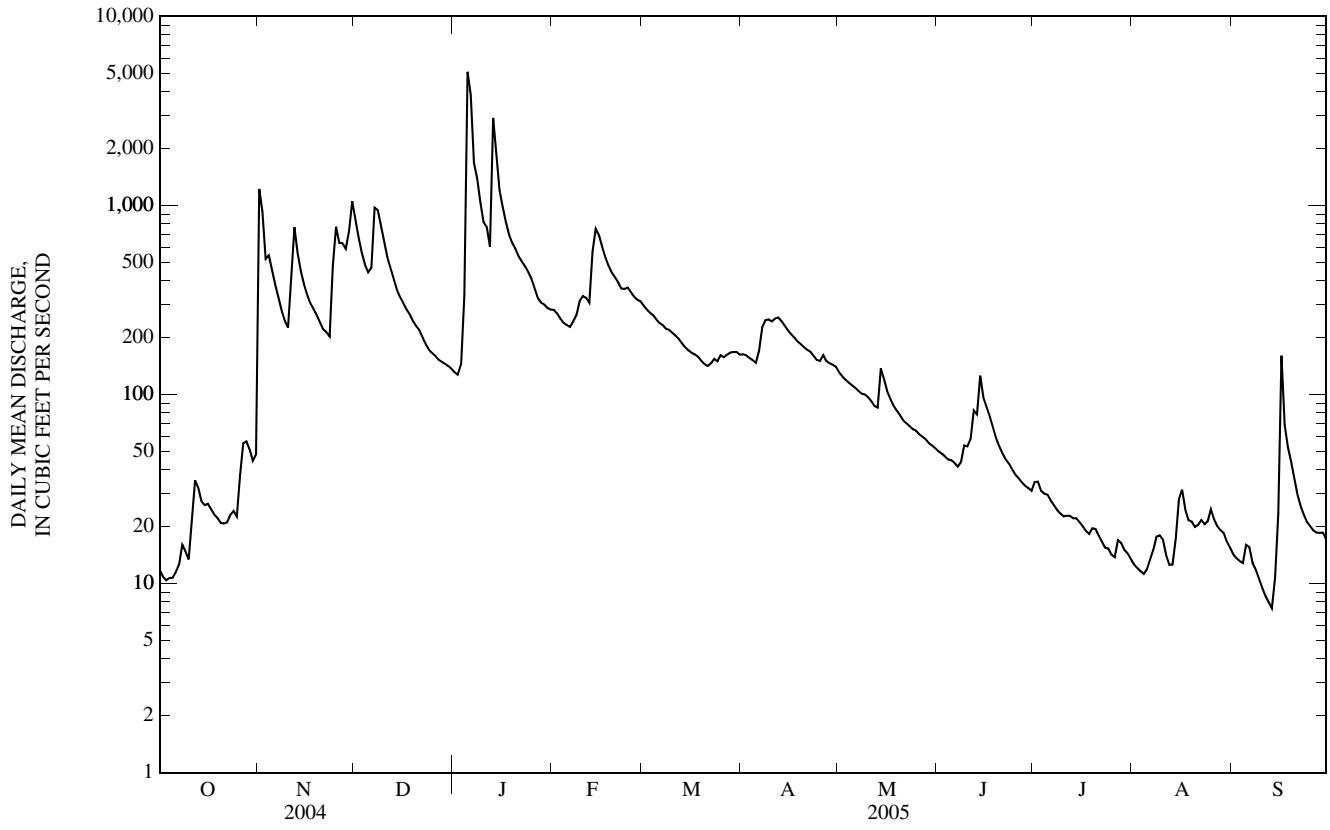
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2005, BY WATER YEAR (WY)

MEAN	129	282	287	250	285	419	385	377	207	108	59.3	101
MAX	780	1,139	1,058	964	918	1,170	1,427	1,747	820	392	205	1,545
(WY)	(1987)	(1986)	(1993)	(2005)	(1985)	(1975)	(1994)	(2002)	(1995)	(1993)	(1968)	(1993)
MIN	16.6	16.8	19.7	14.0	23.5	29.2	30.1	30.1	39.2	21.3	10.1	6.78
(WY)	(1992)	(1981)	(1977)	(1981)	(1981)	(1996)	(1981)	(1977)	(1972)	(2005)	(1980)	(1980)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1966 - 2005
ANNUAL MEAN	250	235	241
HIGHEST ANNUAL MEAN			560
LOWEST ANNUAL MEAN			50.2
HIGHEST DAILY MEAN	2,610	5,090	23,300
LOWEST DAILY MEAN	10	7.4	4.5
ANNUAL SEVEN-DAY MINIMUM	11	9.6	5.3
MAXIMUM PEAK FLOW	---	8,080	36,100
MAXIMUM PEAK STAGE	---	18.17	27.56
INSTANTANEOUS LOW FLOW	---	7.2	3.8
ANNUAL RUNOFF (INCHES)	13.27	12.44	12.73
10 PERCENT EXCEEDS	565	561	525
50 PERCENT EXCEEDS	168	131	111
90 PERCENT EXCEEDS	22	15	23

e Estimated



06918460 TURNBACK CREEK ABOVE GREENFIELD, MO

LOCATION.--Lat 37°24'09", long 93°48'07", sec.21, T.31 N., R.26 W., Dade County, Hydrologic Unit 10290106, on left downstream side of bridge pier on State Highway O, 1.5 mi downstream from Limestone Creek, and 2.0 mi southeast of Greenfield.

DRAINAGE AREA.--252 mi².

PERIOD OF RECORD.--September 1965 to current year.

REVISED RECORDS.--WDR MO-84-1: 1968, 1970, 1972-74, 1976, 1978-79, 1983 (M). WDR MO-93-1: 1987 (M).

GAGE.--Water-stage recorder. Datum of gage is 870.49 ft above National Geodetic Vertical Datum of 1929 (levels by the Missouri State Highway and Transportation Commission).

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	643	941	171	288	299	209	151	63	37	13	19
2	19	606	804	167	279	284	205	145	62	38	12	17
3	18	423	695	192	276	275	199	141	60	34	10	16
4	18	473	612	493	269	266	194	138	59	33	10	21
5	18	398	561	6,010	259	256	190	134	57	33	11	19
6	18	339	627	3,140	257	245	233	130	56	30	11	17
7	19	292	1,350	1,460	279	240	409	127	54	29	14	16
8	22	252	1,110	1,140	300	230	368	124	52	26	14	15
9	23	223	962	965	356	226	345	124	57	25	12	15
10	22	201	820	844	373	219	322	120	57	25	12	12
11	33	655	705	763	373	211	326	115	64	26	11	11
12	49	1,010	621	777	373	205	335	110	63	28	9.9	10
13	43	740	540	3,180	643	196	312	107	80	26	10	9.8
14	35	593	476	1,550	672	189	293	146	110	25	19	15
15	33	491	432	1,240	631	183	275	135	102	25	34	25
16	33	422	399	e1,020	568	179	259	123	83	25	35	102
17	30	373	368	e855	514	175	245	115	74	22	34	46
18	28	339	343	e751	470	170	233	107	66	21	32	38
19	31	313	317	e694	435	165	222	101	60	23	29	32
20	33	285	299	e644	410	160	212	96	56	21	24	28
21	34	261	282	e596	383	158	203	91	52	20	17	25
22	31	250	261	e563	357	165	202	88	49	18	31	23
23	33	243	243	e532	358	184	192	85	46	17	34	20
24	32	797	227	e498	376	181	181	83	43	16	32	19
25	30	989	219	e452	347	196	177	84	42	14	34	18
26	63	823	209	e402	329	198	183	79	41	13	29	17
27	68	867	198	e379	320	209	174	77	39	18	29	17
28	62	792	192	e356	312	222	169	74	37	16	26	19
29	53	934	188	348	---	219	165	70	35	16	24	17
30	47	1,090	184	326	---	216	160	68	33	15	22	16
31	56	---	177	305	---	208	---	66	---	14	20	---
MEAN	34.0	537	496	994	386	211	240	108	58.4	23.5	21.1	22.5
MAX	68	1,090	1,350	6,010	672	299	409	151	110	38	35	102
MIN	18	201	177	167	257	158	160	66	33	13	9.9	9.8
IN.	0.16	2.38	2.27	4.55	1.60	0.96	1.06	0.50	0.26	0.11	0.10	0.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2005, BY WATER YEAR (WY)

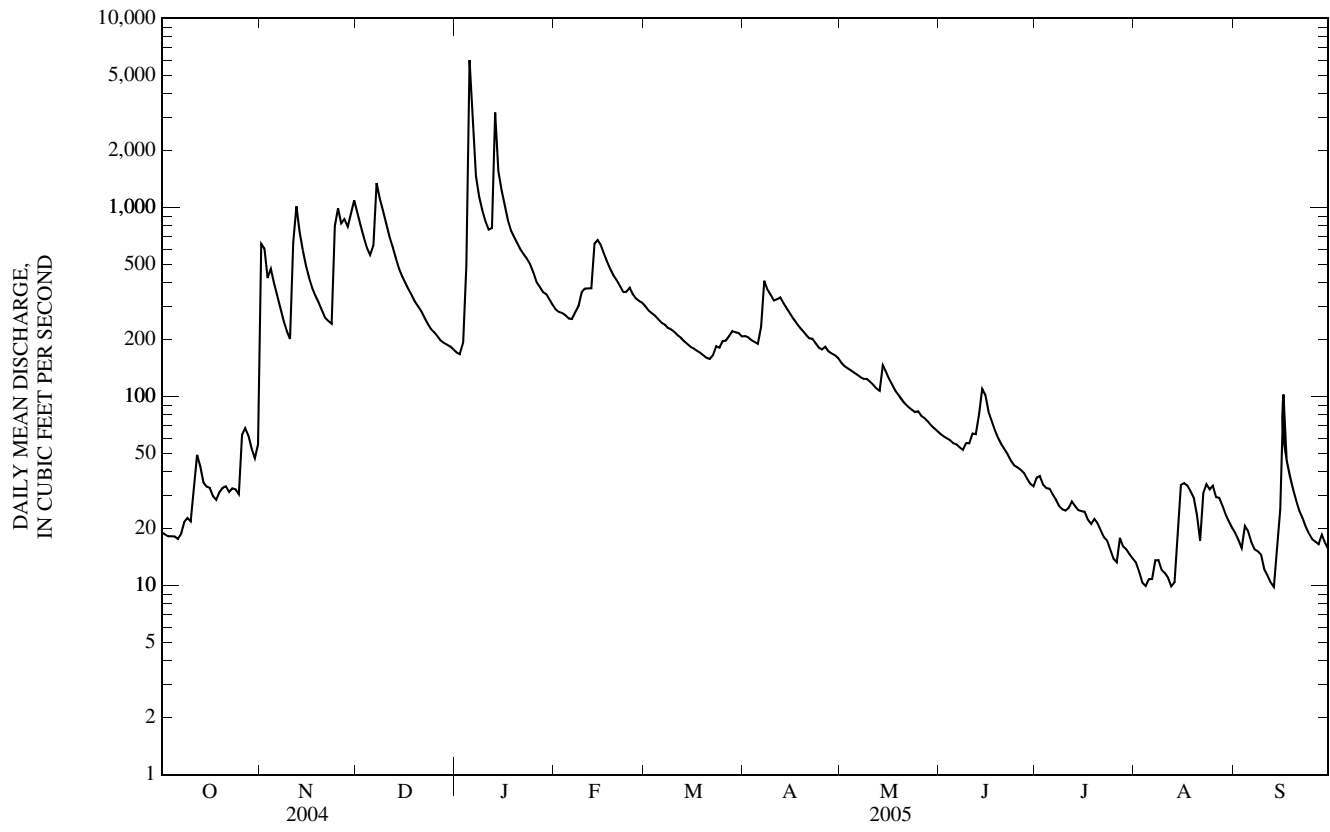
MEAN	141	299	287	260	312	446	425	384	238	151	84.1	122
MAX	921	1,385	982	994	1,020	1,377	1,410	1,797	874	636	354	1,579
(WY)	(1987)	(1986)	(1988)	(2005)	(1985)	(1973)	(1994)	(1990)	(1993)	(1992)	(1982)	(1993)
MIN	23.4	21.7	20.2	19.9	27.5	27.1	39.3	93.9	44.3	23.5	14.4	11.6
(WY)	(1979)	(1981)	(1990)	(1981)	(1981)	(1996)	(1981)	(1981)	(1972)	(2005)	(1980)	(1980)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1965 - 2005
ANNUAL MEAN	283	260	262
HIGHEST ANNUAL MEAN			612
LOWEST ANNUAL MEAN			84.1
HIGHEST DAILY MEAN	2,320	6,010	23,700
LOWEST DAILY MEAN	18	9.8	9.4
ANNUAL SEVEN-DAY MINIMUM	18	12	10
MAXIMUM PEAK FLOW	---	9,420	44,000
MAXIMUM PEAK STAGE	---	18.34	26.34
INSTANTANEOUS LOW FLOW	---	3.8	3.8
ANNUAL RUNOFF (INCHES)	15.30	14.03	14.12
10 PERCENT EXCEEDS	694	643	565
50 PERCENT EXCEEDS	194	146	127
90 PERCENT EXCEEDS	31	17	31

e Estimated

06918460 TURNBACK CREEK ABOVE GREENFIELD, MO—Continued



06918493 SOUTH DRY SAC RIVER NEAR SPRINGFILED, MO

LOCATION.--Lat 37°15'58", long 93°14'56", in SW 1/4 NW 1/4 NE 1/4 sec.5, T.29 N., R.21 W., Greene County, Hydrologic Unit 10290106, on downstream side of right wingwall on Barnes Road and 1 mile north of Springfield.

DRAINAGE AREA.--13.7 mi².

PERIOD OF RECORD.--December 2000 to current year (gage height only). Discharge published August 30, 1996 to Sept. 30, 2002. Gage height records prior to Oct. 1, 2004 available from the Missouri Water Science Center.

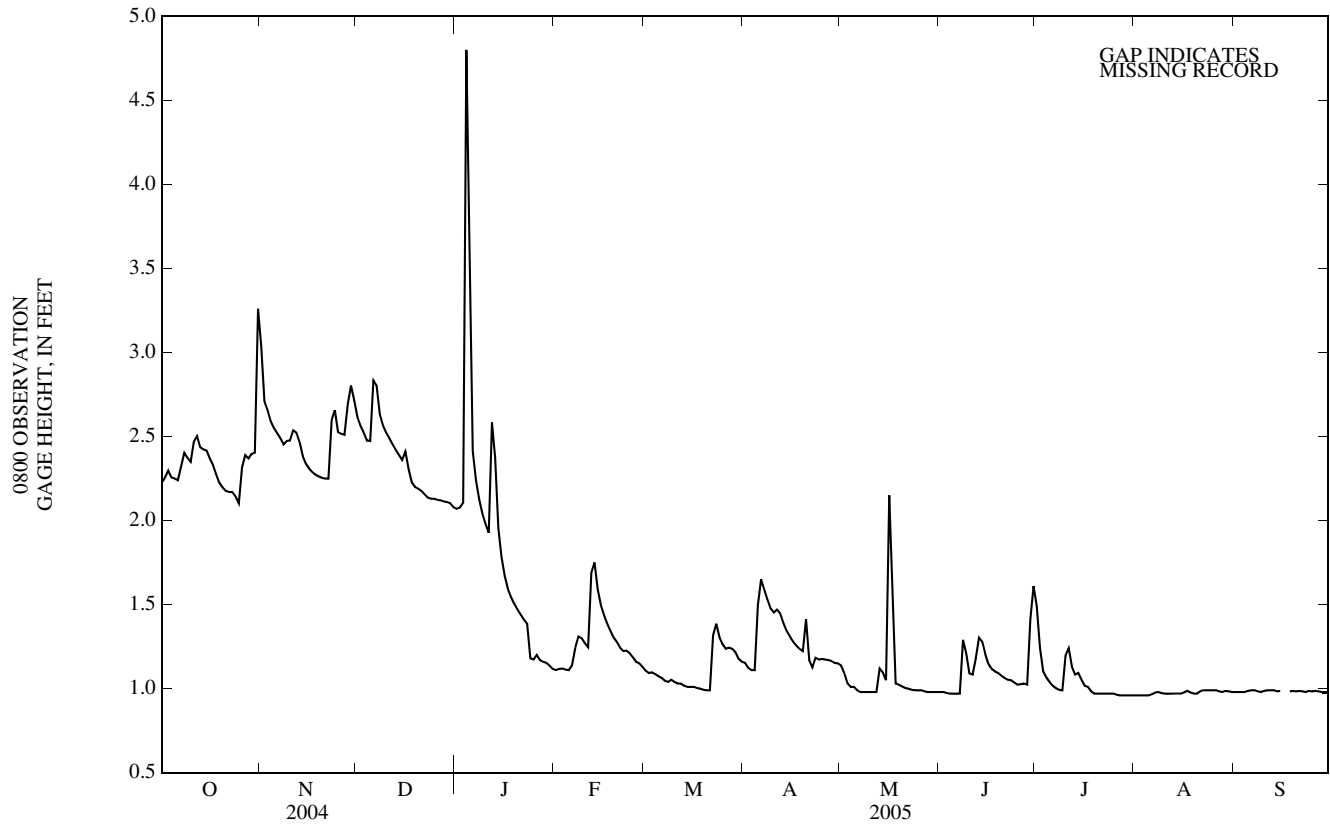
GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--U.S.G.S. 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	2.22	3.69	2.67	2.07	1.11	1.12	1.16	1.15	0.98	1.61	0.96	0.98
2	2.23	2.71	2.59	2.07	1.11	1.10	1.15	1.13	0.98	1.43	0.96	0.98
3	2.27	2.71	2.55	2.08	1.12	1.09	1.11	1.07	0.98	1.15	0.96	0.98
4	2.31	2.63	2.51	2.12	1.12	1.10	1.11	1.01	0.97	1.08	0.96	0.98
5	2.23	2.57	2.46	6.14	1.11	1.08	1.11	1.01	0.97	1.06	0.96	0.98
6	2.26	2.54	2.48	2.60	1.11	1.07	1.69	1.01	0.97	1.03	0.96	0.99
7	2.23	2.51	3.01	2.32	1.15	1.06	1.63	0.98	0.97	1.01	0.97	0.99
8	2.37	2.48	2.70	2.20	1.29	1.04	1.57	0.98	0.97	1.00	0.98	0.99
9	2.42	2.44	2.60	2.09	1.32	1.04	1.51	0.98	1.45	0.99	0.98	0.98
10	2.35	2.49	2.55	2.02	1.29	1.06	1.46	0.98	1.09	0.99	0.97	0.98
11	2.35	2.47	2.51	1.96	1.26	1.03	1.45	0.98	1.09	1.30	0.97	0.99
12	2.53	2.57	2.48	1.91	1.24	1.03	1.48	0.98	1.08	1.21	0.97	0.99
13	2.49	2.50	2.44	2.92	1.91	1.03	1.43	0.98	1.23	1.09	0.97	0.99
14	2.41	2.45	2.41	2.10	1.67	1.01	1.37	1.19	1.34	1.08	0.97	0.99
15	2.43	2.35	2.38	1.88	1.55	1.01	1.33	1.05	1.25	1.10	0.97	0.98
16	2.41	2.33	2.35	1.73	1.47	1.01	1.30	1.05	1.18	1.03	0.97	0.99
17	2.35	2.30	2.44	1.64	1.42	1.01	1.27	2.70	1.13	1.01	0.98	---
18	2.32	2.28	2.24	1.57	1.37	1.00	1.25	1.03	1.11	1.01	0.99	0.99
19	2.25	2.27	2.22	1.53	1.33	1.00	1.23	1.03	1.10	0.97	0.97	0.98
20	2.21	2.26	2.19	1.49	1.29	0.99	1.22	1.02	1.09	0.97	0.97	0.99
21	2.19	2.25	2.19	1.46	1.27	0.99	1.51	1.01	1.07	0.97	0.97	0.98
22	2.17	2.25	2.17	1.43	1.23	0.99	1.00	1.00	1.06	0.97	0.99	0.99
23	2.17	2.25	2.15	1.40	1.22	1.48	1.19	1.00	1.05	0.97	0.99	0.98
24	2.17	2.77	2.13	1.38	1.23	1.34	1.18	0.99	1.05	0.97	0.99	0.98
25	2.13	2.60	2.13	1.08	1.20	1.29	1.17	0.99	1.03	0.97	0.99	0.99
26	2.09	2.49	2.13	1.22	1.18	1.25	1.18	0.99	1.02	0.97	0.99	0.98
27	2.43	2.53	2.12	1.19	1.15	1.23	1.17	0.99	1.03	0.96	0.99	0.99
28	2.37	2.50	2.12	1.16	1.15	1.25	1.17	0.98	1.03	0.96	0.98	0.98
29	2.37	2.79	2.11	1.16	---	1.23	1.16	0.98	1.02	0.96	0.98	0.98
30	2.41	2.81	2.11	1.15	---	1.21	1.15	0.98	1.61	0.96	0.99	0.98
31	2.40	---	2.10	1.13	---	1.16	---	0.98	---	0.96	0.98	---
MEAN	2.31	2.53	2.36	1.88	1.28	1.11	1.29	1.07	1.10	1.06	0.98	---
MAX	2.53	3.69	3.01	6.14	1.91	1.48	1.69	2.70	1.61	1.61	0.99	---
MIN	2.09	2.25	2.10	1.08	1.11	0.99	1.00	0.98	0.97	0.96	0.96	---

06918493 SOUTH DRY SAC RIVER NEAR SPRINGFIELD, MO—Continued



06918600 LITTLE SAC RIVER NEAR WALNUT GROVE, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°23'55", long 93°24'36", in SW ¼ NW ¼ SE ¼ sec.24, T.31 N., R.23 W., Greene County, Hydrologic Unit 10290106, approximately 7.5 mi east of Walnut Grove at bridge on Highway BB.

DRAINAGE AREA.--119 mi².

PERIOD OF RECORD.--Water years 1974 to 1978, 1984 to 1986, 1988 to 1990, 1994 to 1996, October 1999 to current year. Published as "at Walnut Grove", for periods of record from 1994 to 2000.

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 ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 25...	1100	Environmental	12	7.4	78	7.6	666	16.1	--	--	--	--
NOV 16...	1100	Environmental	81	9.7	95	7.8	513	13.7	240	83.9	7.26	2.63
DEC 14...	1430	Environmental	130	13.8	114	8.1	479	6.5	--	--	--	--
JAN 20...	0830	Environmental	233	10.5	91	7.8	459	7.7	230	82.3	5.62	2.10
FEB 08...	1040	Environmental	42	11.9	103	8.0	477	7.6	--	--	--	--
MAR 29...	0900	Environmental	80	10.2	97	8.0	503	11.1	--	--	--	--
APR 11...	1130	Environmental	186	8.4	91	7.7	444	17.1	--	--	--	--
MAY 24...	1230	Environmental	7.3	5.5	64	7.5	499	21.2	210	72.9	6.78	3.47
JUN 14...	1230	Environmental	14	7.0	87	7.7	545	23.8	--	--	--	--
JUL 27...	0845	Blank	--	--	--	--	--	--	--	<.02	<.008	<.16
AUG 27...	0900	Environmental	52	4.3	54	7.8	629	24.8	210	72.7	6.62	6.21
AUG 09...	1630	Environmental	8.8	7.4	97	7.8	672	27.7	--	--	--	--
SEP 19...	1430	Environmental	19	10.3	125	8.1	512	23.4	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, fixed end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, incr. titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, incr. titr., field, mg/L (00450)	Carbonate, wat unfltrd, incr. 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 25...	--	--	--	--	--	--	--	--	--	<10	.36	<.04	.81
NOV 16...	14.6	213	215	262	<1	26.2	.1	13.1	305	<10	.14	<.04	1.77
DEC 14...	--	--	--	--	--	--	--	--	--	<10	.10	<.04	1.80
JAN 20...	9.89	183	184	224	<1	16.6	.1	10.8	270	<10	.20	.06	2.12
FEB 08...	--	--	--	--	--	--	--	--	--	<10	.18n	<.04	1.73
MAR 29...	--	--	--	--	--	--	--	--	--	<10	.47	<.04	1.40
APR 11...	--	--	--	--	--	--	--	--	--	10	.37	<.04	.95
MAY 24...	21.4	187	191	233	<1	30.3	.2	13.7	291	45	.52	<.04	1.02
JUN 14...	--	--	--	--	--	--	--	--	--	23	.44	<.04	1.64
JUL 27...	<.20	--	--	--	--	<.20	<.1	<.2	<10	<10	<.10	<.04	<.06
AUG 27...	45.4	171	170	208	<1	66.6	.4	20.0	358	21	.45	E.02n	.78
AUG 09...	--	--	--	--	--	--	--	--	--	12	.45	<.04	.78
SEP 19...	--	--	--	--	--	--	--	--	--	18	.35	<.04	1.28

06918600 LITTLE SAC RIVER NEAR WALNUT GROVE, 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 0.7 μ MF col/100 mL (31625)	Aluminum, water, fltrd, μ g/L (01106)	Aluminum, water, unfltrd recover-able, μ g/L (01105)	Arsenic water, fltrd, μ g/L (01000)	Cadmium water, fltrd, μ g/L (01025)	Cadmium water, unfltrd μ g/L (01027)	Copper, water, fltrd, μ g/L (01040)	Iron, water, fltrd, μ g/L (01046)
OCT 25...	<.008	.17	.19	.20	160	220	--	--	--	--	--	--	--
NOV 16...	<.008	.04	.05	.06	120	140k	E1n	30	.4	<.04	<.04	.9	E5n
DEC 14...	<.008	E.01n	<.04	<.04	35k	27k	--	--	--	--	--	--	--
JAN 20...	.012	.08	.12	.11	230	280	E1n	73	.3	E.03n	E.02n	.9	E4n
FEB 08...	E.004n	<.02	<.04	<.04	61	110	--	--	--	--	--	--	--
MAR 29...	.009	<.02	<.04	<.04	25	42	--	--	--	--	--	--	--
APR 11...	E.007n	<.02	E.02n	E.04n	140	150k	--	--	--	--	--	--	--
MAY 24...	E.006n	.03	.09	.14	110	200k	18	422	.8	.08	.09	1.8	7
JUN 14...	E.004n	.30	.32	.36	92	130k	--	--	--	--	--	--	--
JUL 27...	<.008	<.02	<.04	<.04	--	--	<2	6	<.2	<.04	<.04	<.4	<6
AUG 27...	<.008	.19	.23	.25	300	310	E1n	205	1.2	.07	.09	1.9	<6
SEP 09...	<.008	.19	.21	.23	26	95k	--	--	--	--	--	--	--
SEP 19...	.008	.11	.15	.17	420	360	--	--	--	--	--	--	--

Date	Lead, water, fltrd, μ g/L (01049)	Lead, water, unfltrd recover-able, μ g/L (01051)	Manganese, water, fltrd, μ g/L (01056)	Mercury water, unfltrd recover-able, μ g/L (71900)	Selenium, water, fltrd, μ g/L (01145)	Zinc, water, fltrd, μ g/L (01090)	Zinc, water, unfltrd recover-able, μ g/L (01092)
OCT 25...	--	--	--	--	--	--	--
NOV 16...	E.05n	.12	12.8	<.01	.4	2.2	2
DEC 14...	--	--	--	--	--	--	--
JAN 20...	.31	.41	6.8	<.01	E.3n	3.0	4
FEB 08...	--	--	--	--	--	--	--
MAR 29...	--	--	--	--	--	--	--
APR 11...	--	--	--	--	--	--	--
MAY 24...	.36	1.87	13.2	<.01	.7	6.9	11
JUN 14...	--	--	--	--	--	--	--
JUL 27...	<.08	<.06	<.6	<.01	<.4	<.6	<2
AUG 27...	.18	.87	18.5	E.01n	E.3n	7.8	9
SEP 09...	--	--	--	--	--	--	--
SEP 19...	--	--	--	--	--	--	--

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

06918740 LITTLE SAC RIVER NEAR MORRISVILLE, MO

LOCATION.--Lat 37°28'58", long 93°29'08", in SW ¼ SW ¼ sec.20, T.32 N., R.23 W., Polk County, Hydrologic Unit 10290106, on downstream side of center pier of Hamilton Bridge on State Highway 215, 0.7 mi upstream from Slagle Creek, and 3 mi west of Morrisville.

DRAINAGE AREA.--237 mi².

PERIOD OF RECORD.--October 1968 to current year.

REVISED RECORDS.--WDR MO-84-1: 1969-70, 1972-75, 1977-79, 1981, 1983 (M).

GAGE.--Water-stage recorder. Elevation of gage is 881 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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	6.4	3,560	709	61	184	197	129	84	32	17	5.5	16
2	6.3	932	486	59	181	186	127	80	29	33	5.3	12
3	6.0	462	372	125	182	174	119	77	28	40	4.5	11
4	6.1	478	309	1,560	183	214	111	75	28	33	5.4	9.9
5	5.2	329	279	9,880	178	192	108	73	27	25	4.7	9.7
6	5.0	258	314	3,410	179	175	519	72	27	19	4.9	7.6
7	7.1	213	1,710	1,570	195	164	746	66	27	14	5.0	6.5
8	8.9	177	973	1,120	236	153	425	65	45	12	5.6	6.6
9	9.1	155	599	872	297	149	309	64	62	10	6.2	6.5
10	11	138	434	700	285	145	260	61	73	9.8	4.9	5.9
11	23	651	341	593	261	136	263	59	66	9.6	4.5	5.8
12	46	658	290	1,210	257	131	281	54	57	11	4.2	5.2
13	61	339	244	4,540	1,140	121	241	53	86	18	3.9	4.8
14	53	249	208	1,630	849	117	207	366	102	17	6.1	6.4
15	47	205	184	1,060	605	109	185	202	84	13	15	43
16	46	179	169	785	443	106	167	140	65	9.6	14	276
17	42	153	159	617	359	104	155	118	52	7.7	13	123
18	37	142	150	507	315	102	142	101	44	7.9	11	87
19	34	133	128	446	284	97	133	91	37	7.9	12	71
20	34	119	117	402	261	94	126	82	31	12	9.5	57
21	28	108	110	356	240	92	124	83	27	13	7.8	43
22	25	108	101	319	221	94	118	84	24	9.1	280	31
23	27	105	93	283	239	113	102	77	22	7.6	171	26
24	22	881	86	269	295	126	95	79	19	7.1	162	22
25	24	821	80	253	257	157	91	59	18	5.9	94	19
26	61	436	75	238	228	152	104	53	32	5.3	65	16
27	158	476	71	226	211	162	103	45	86	5.8	49	15
28	128	383	69	210	208	178	95	48	23	5.8	35	17
29	112	1,180	69	208	---	164	96	43	19	5.4	29	14
30	87	1,230	66	201	---	151	93	38	16	5.8	23	14
31	96	---	63	190	---	136	---	35	---	5.2	21	---
MEAN	40.7	509	292	1,094	313	142	192	84.7	42.9	13.0	34.9	32.9
MAX	158	3,560	1,710	9,880	1,140	214	746	366	102	40	280	276
MIN	5.0	105	63	59	178	92	91	35	16	5.2	3.9	4.8
IN.	0.20	2.39	1.42	5.32	1.38	0.69	0.91	0.41	0.20	0.06	0.17	0.16

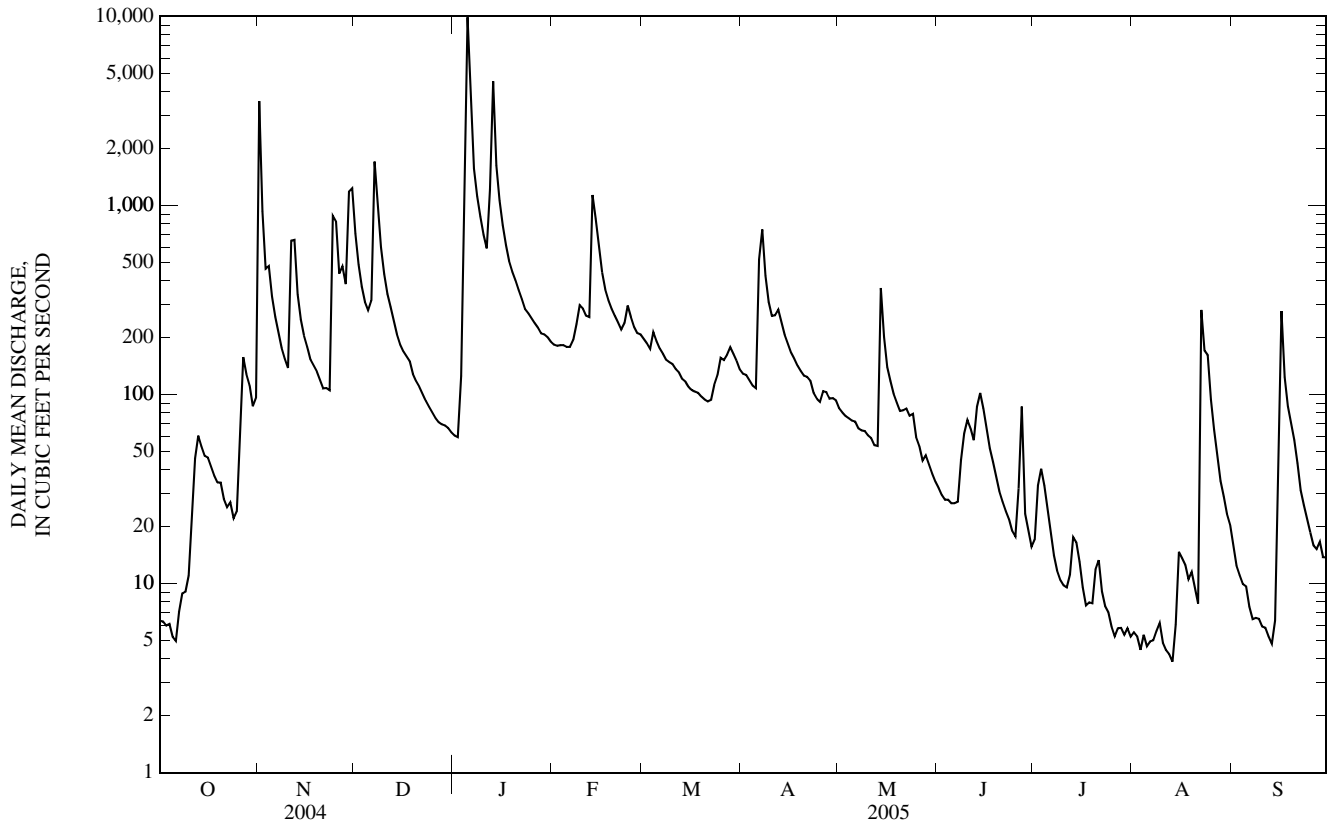
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2005, BY WATER YEAR (WY)

MEAN	116	297	271	249	279	438	392	335	193	81.0	35.9	113
MAX	809	1,256	1,045	1,094	1,139	1,290	1,409	1,359	968	387	145	1,691
(WY)	(1987)	(1986)	(1988)	(2005)	(1985)	(1973)	(1994)	(1990)	(1995)	(2000)	(1988)	(1993)
MIN	10.2	10.5	10.7	9.05	29.4	29.2	32.7	23.7	20.7	11.6	4.90	3.15
(WY)	(1996)	(2000)	(1990)	(1981)	(1996)	(1996)	(1981)	(2000)	(1972)	(1980)	(1980)	(1980)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1969 - 2005
ANNUAL MEAN	226	232	233
HIGHEST ANNUAL MEAN			516
LOWEST ANNUAL MEAN			58.6
HIGHEST DAILY MEAN	3,610	Mar 4	18,600
LOWEST DAILY MEAN	4.2	Sep 11	0.60
ANNUAL SEVEN-DAY MINIMUM	4.7	Sep 9	1.6
MAXIMUM PEAK FLOW	---	15,300	29,100
MAXIMUM PEAK STAGE	---	19.18	23.33
INSTANTANEOUS LOW FLOW	---	2.5	0.30
ANNUAL RUNOFF (INCHES)	13.00	13.31	13.34
10 PERCENT EXCEEDS	506	452	502
50 PERCENT EXCEEDS	108	94	80
90 PERCENT EXCEEDS	7.9	7.1	12

06918740 LITTLE SAC RIVER NEAR MORRISVILLE, MO—Continued



06918990 STOCKTON LAKE NEAR STOCKTON, MO

LOCATION.--Lat 37°41'39", long 93°46'11", SW ¼ SE ¼ SW ¼ sec.10, T.34 N., R.26 W., Cedar County, Hydrologic Unit 10290106, in power house at dam on Sac River, 2 mi east of Stockton.

DRAINAGE AREA.--1,160 mi².

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

GAGE.--Water-stage recorder. Nonrecording gage prior to May 30, 1973. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by a rock shell earthfill type dam. Spillway is equipped with 4 tainter gates, 40 ft by 30.5 ft, crest elevation, 861.5 ft. Embankment closed and river diverted on Sept. 23, 1968. Gates closed and storage began on Dec. 12, 1969; minimum power elevation 830.0 ft reached on May 1, 1970. Gross storage at top of flood control pool is 1,666,659 ac-ft at elevation 892.0 ft, of which 779,550 ac-ft between elevations 867.0 ft and 892.0 ft is used for flood control, and 887,109 ac-ft between elevations 760.0 ft and 867.0 ft is used for multipurpose and power. Sedimentation reserve is 25,000 ac-ft. Lake is used for flood control, power, and recreational purposes. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,450,000 ac-ft, Apr. 28, 1973, elevation, 885.94 ft; minimum, since initial filling to minimum power pool level, 352,000 ac-ft, Aug. 27 to Sept. 4, 1970, elevation, 839.60 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,183,000 ac-ft, Jan. 18, elevation, 878.27 ft; minimum, 705,000 ac-ft, Sept. 28, elevation, 859.68 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	864.86	865.39	871.26	871.48	875.92	871.10	869.07	869.17	868.45	867.21	863.52	861.04
2	864.80	866.01	871.47	871.32	875.68	870.83	869.03	869.18	868.45	867.13	863.40	860.90
3	864.80	866.23	871.59	871.14	875.50	870.51	869.08	869.20	868.45	867.13	863.23	860.80
4	864.76	866.44	871.75	870.98	875.27	870.25	869.11	869.08	868.40	867.12	863.07	860.80
5	864.75	866.60	871.88	872.21	875.04	869.92	869.16	869.01	868.41	867.00	862.87	860.80
6	864.73	866.72	872.06	874.67	874.82	869.61	869.16	868.89	868.40	866.85	862.76	860.72
7	864.71	866.80	872.44	875.37	874.60	869.32	869.28	868.84	868.34	866.84	862.75	860.60
8	864.74	866.86	872.86	875.80	874.39	869.26	869.37	868.81	868.24	866.83	862.72	860.51
9	864.73	866.94	873.13	876.05	874.14	869.09	869.40	868.86	868.21	866.71	862.53	860.41
10	864.72	866.99	873.18	876.22	873.92	868.91	869.50	868.86	868.11	866.55	862.37	860.40
11	864.73	867.11	873.20	876.31	873.66	868.70	869.59	868.89	868.06	866.42	862.20	860.37
12	864.89	867.51	873.25	876.34	873.40	868.63	869.59	868.76	868.11	866.36	862.08	860.36
13	864.90	867.74	873.21	877.00	873.29	868.54	869.46	868.69	868.26	866.24	861.92	860.33
14	864.88	867.89	873.12	877.83	873.53	868.50	869.34	868.70	868.24	866.11	861.95	860.32
15	864.91	868.02	873.03	878.10	873.71	868.49	869.24	868.77	868.15	865.96	862.10	860.45
16	864.90	868.13	872.92	878.17	873.54	868.53	869.17	868.81	868.16	865.80	861.99	860.46
17	864.88	868.21	872.78	878.23	873.43	868.57	869.23	868.83	868.15	865.68	861.80	860.49
18	864.86	868.31	872.78	878.26	873.37	868.63	869.28	868.84	868.16	865.66	861.75	860.42
19	864.85	868.39	872.81	878.22	873.28	868.64	869.23	868.76	868.15	865.49	861.54	860.40
20	864.84	868.45	872.88	878.18	873.23	868.66	869.16	868.66	868.14	865.32	861.36	860.33
21	864.85	868.51	872.71	878.11	873.11	868.71	869.10	868.69	868.07	865.18	861.35	860.17
22	864.86	868.59	872.54	877.96	873.00	868.75	869.03	868.69	867.97	864.99	861.42	860.03
23	864.90	868.64	872.35	877.89	872.75	868.79	868.92	868.69	867.90	864.81	861.47	859.93
24	864.88	868.90	872.26	877.77	872.51	868.88	868.95	868.57	867.81	864.64	861.39	859.85
25	864.87	869.45	872.32	877.55	872.26	868.92	868.99	868.46	867.72	864.50	861.23	859.73
26	864.88	869.70	872.34	877.28	871.99	868.96	869.06	868.45	867.72	864.34	861.11	859.74
27	865.03	869.96	872.37	877.08	871.71	869.03	869.08	868.46	867.60	864.21	861.10	859.72
28	865.00	870.25	872.20	876.83	871.40	869.09	869.15	868.48	867.52	864.10	861.10	859.72
29	865.02	870.49	871.97	876.62	---	869.16	869.13	868.45	867.42	863.97	861.08	859.74
30	865.04	870.94	871.83	876.37	---	869.23	869.16	868.45	867.28	863.79	861.07	859.74
31	865.03	---	871.66	876.14	---	869.10	---	868.45	---	863.64	861.07	---
MAX	865.04	870.94	873.25	878.26	875.92	871.10	869.59	869.20	868.45	867.21	863.52	861.04
MIN	864.71	865.39	871.26	870.98	871.40	868.49	868.92	868.45	867.28	863.64	861.07	859.72
(-)	827,000	976,000	995,000	1,119,000	988,000	928,000	929,000	911,000	882,000	794,000	736,000	707,000
(=)	+4,000	+149,000	+19,000	+124,000	-131,000	-60,000	+1,000	-18,000	-29,000	-88,000	-58,000	-29,000

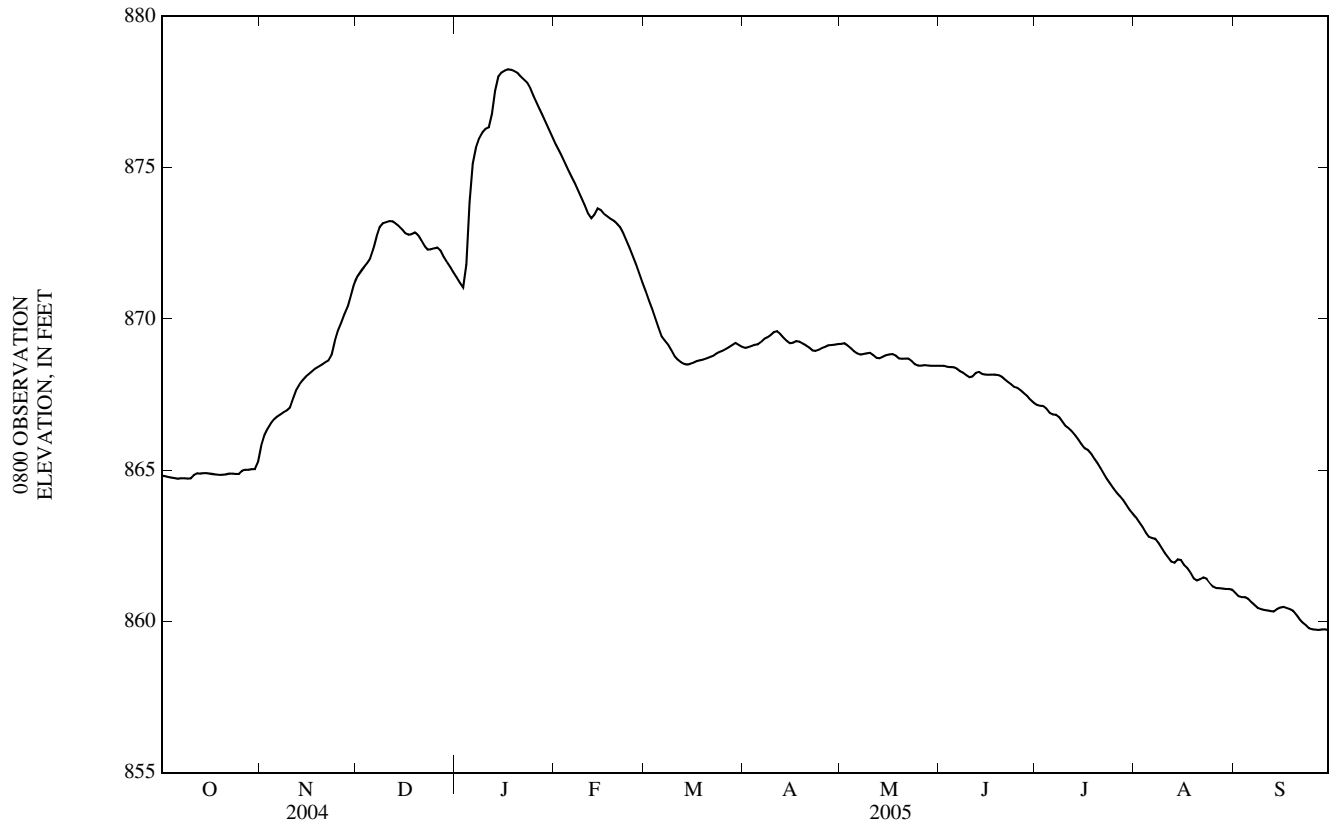
CALYR 2004.... +196,000

WTR YR 20005.... -116,000

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

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

06918990 STOCKTON LAKE NEAR STOCKTON, MO—Continued



06919000 SAC RIVER NEAR STOCKTON, MO

LOCATION.--Lat 37°41'51", long 93°45'43", in SE¹/₄NW¹/₄SE¹/₄ sec. 10, T.34 N., R. 26W., Cedar County, Hydrologic Unit 10290106, on left bank 0.5 mi upstream from State Highway 32 bridge, 2 mi upstream from Bear Creek, 2.0 mi east of Stockton, and 0.5 mi downstream from Stockton Dam, at mi 49.5.

DRAINAGE AREA.--1,160 mi², approximately.

PERIOD OF RECORD.--Dec. 1, 2000 to current year (gage height only). Discharge published June 20, 1921 to Sept. 30, 1989. Gage height records prior to Oct. 1, 2004 available from the Missouri Water Science Center.

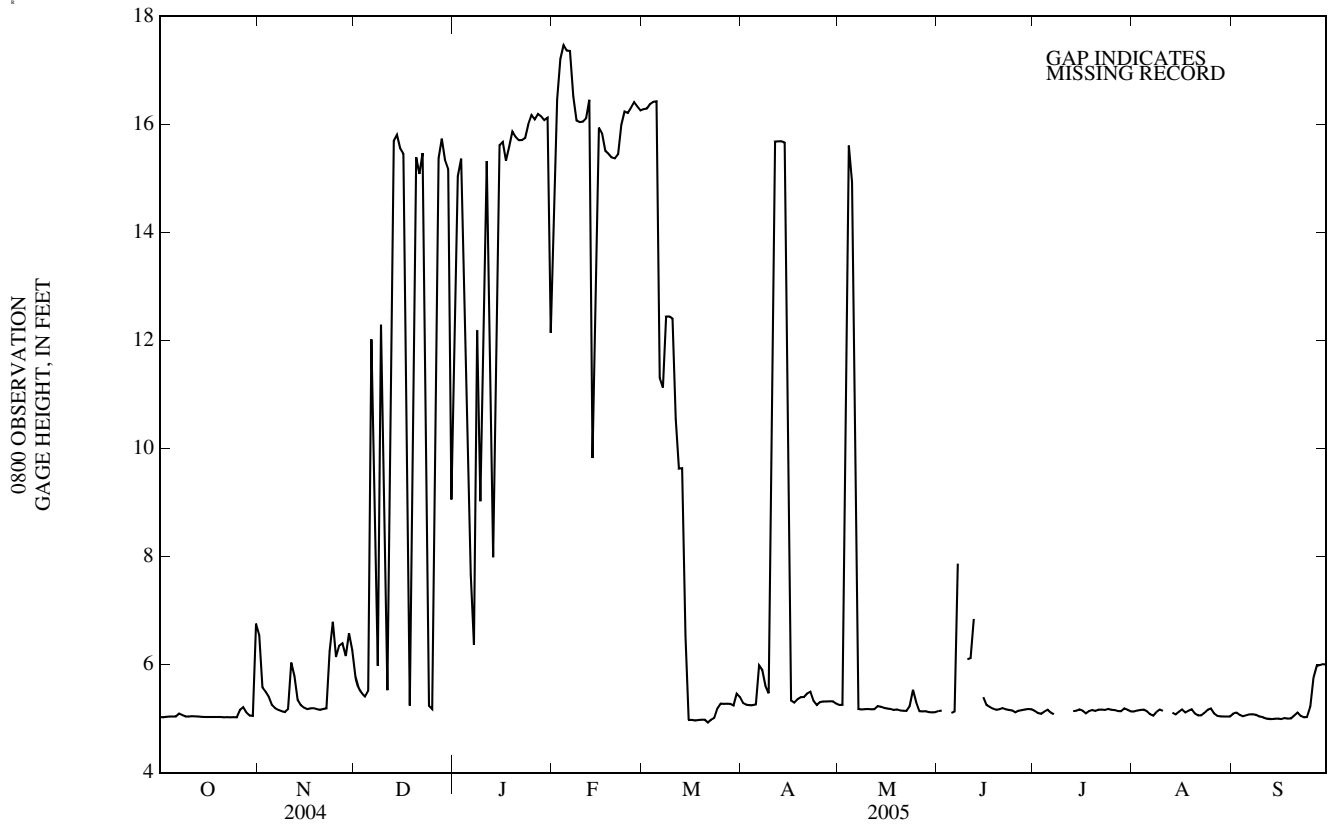
GAGE.--Water stage recorder. Datum of gage 758.12 ft above National Geodetic Vertical Datum of 1929.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 19, 1943 reached a gage height of 31.8 ft. Maximum gage height prior to 1943, 29.3 ft in July 1909.

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	5.03	7.61	6.00	5.97	10.14	16.25	5.31	5.26	5.12	5.17	5.13	5.04
2	5.03	6.02	5.67	14.46	16.04	16.30	5.28	5.25	5.15	5.13	5.13	5.12
3	5.02	5.36	5.52	15.33	16.68	16.29	5.25	5.26	5.15	5.09	5.16	5.11
4	5.04	5.57	5.45	15.38	17.48	16.42	5.25	15.58	---	5.09	5.16	5.05
5	5.04	5.32	5.39	12.54	17.46	16.42	5.25	15.62	5.09	5.15	5.17	5.04
6	5.04	5.22	5.58	9.70	17.32	16.43	5.27	14.59	5.11	5.17	5.12	5.07
7	5.04	5.18	15.24	6.65	17.38	8.75	6.34	5.20	5.14	5.08	5.06	5.08
8	5.12	5.15	6.31	6.22	16.08	12.32	5.68	5.17	9.23	5.08	5.05	5.08
9	5.04	5.13	5.81	15.17	16.07	12.50	5.57	5.17	---	---	5.16	5.07
10	5.04	5.12	15.53	5.95	16.03	12.42	5.42	5.18	6.05	5.17	5.17	5.03
11	5.04	5.21	5.70	15.24	16.06	12.40	15.56	5.18	6.12	---	5.13	5.03
12	5.05	6.45	5.44	15.36	16.14	9.63	15.74	5.17	6.12	---	---	4.99
13	5.04	5.46	15.48	10.86	16.61	9.63	15.66	5.18	7.21	5.14	5.19	5.00
14	5.04	5.29	15.80	6.55	6.43	9.64	15.70	5.26	---	5.14	5.07	4.99
15	5.03	5.23	15.81	15.15	15.36	4.98	15.64	5.20	5.59	5.15	5.08	5.00
16	5.03	5.19	15.43	15.85	16.23	4.97	5.43	5.20	5.30	5.18	5.15	5.00
17	5.03	5.17	15.47	15.59	15.63	4.98	5.29	5.18	5.23	5.13	5.18	4.99
18	5.03	5.20	5.24	15.20	15.45	4.96	5.30	5.18	5.21	5.08	5.08	5.02
19	5.03	5.19	5.24	15.78	15.46	4.98	5.39	5.15	5.17	5.17	5.18	4.99
20	5.03	5.17	15.43	15.91	15.35	4.98	5.40	5.18	5.16	5.15	5.17	5.01
21	5.03	5.16	15.37	15.70	15.38	4.98	5.40	5.14	5.18	5.14	5.06	5.08
22	5.02	5.19	14.94	15.71	15.48	4.90	5.50	5.15	5.20	5.18	5.06	5.13
23	5.03	5.19	15.73	15.71	16.25	5.02	5.50	5.14	5.16	5.16	5.06	5.01
24	5.02	6.78	5.37	15.77	16.23	5.01	5.24	5.28	5.16	5.16	5.13	5.03
25	5.03	6.80	5.17	16.12	16.20	5.28	5.26	5.66	5.15	5.19	5.18	5.03
26	5.02	5.81	5.18	16.20	16.36	5.28	5.33	5.13	5.10	5.15	5.19	5.31
27	5.23	6.62	15.36	16.04	16.44	5.27	5.31	5.14	5.17	5.16	5.05	5.98
28	5.20	6.28	15.38	16.27	16.28	5.28	5.32	5.13	5.15	5.13	5.05	5.97
29	5.07	6.10	15.91	16.09	---	5.27	5.32	5.14	5.18	5.14	5.04	6.00
30	5.05	6.82	15.06	16.07	---	5.23	5.32	5.11	5.18	5.21	5.04	6.01
31	5.05	---	15.23	16.15	---	5.58	---	5.12	---	5.14	5.04	---
MEAN	5.05	5.67	10.65	13.70	15.64	8.79	7.11	6.17	---	---	---	5.18
MAX	5.23	7.61	15.91	16.27	17.48	16.43	15.74	15.62	---	---	---	6.01
MIN	5.02	5.12	5.17	5.95	6.43	4.90	5.24	5.11	---	---	---	4.99



06919020 SAC RIVER AT HIGHWAY J BELOW STOCKTON, MO

LOCATION.--Lat 37°44'09", long 93°46'47", in NW ¼ sec.4, T.34 N., R.26 W., Cedar County, Hydrologic Unit 10290106, on right bank on downstream side of bridge on State Highway J, 4.5 mi downstream from Bear Creek, 6.3 mi downstream from Stockton Lake, 3.0 mi north of Stockton, and at mile 44.9.

DRAINAGE AREA.--1,292 mi².

PERIOD OF RECORD.--October 1973 to current year. Occasional discharge measurements in 1973 water year.

GAGE.--Water-stage recorder. Datum of gage is 750.19 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records fair. Considerable regulation by Stockton Lake (06918990), 6.3 mi upstream. 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	65	1,440	584	3,070	4,310	5,200	1,340	136	75	1,030	1,220	982
2	65	663	1,460	3,020	4,260	5,150	350	124	74	254	1,840	1,040
3	65	351	368	3,180	4,150	5,010	124	936	516	79	1,630	330
4	65	399	291	3,270	3,990	5,160	120	1,370	206	940	1,940	57
5	64	263	269	6,120	4,340	5,230	1,010	1,540	73	1,550	1,400	530
6	63	204	872	3,380	4,280	5,140	1,230	1,920	1,320	390	281	947
7	315	175	2,540	975	4,310	2,530	1,920	761	1,770	77	61	931
8	403	153	769	1,260	5,190	2,970	1,260	222	2,830	974	1,580	1,010
9	66	137	1,440	2,010	5,130	3,270	682	102	2,040	1,560	1,670	261
10	64	130	3,100	1,510	5,170	3,230	220	99	2,030	1,600	1,730	56
11	90	355	2,260	3,120	5,160	2,670	1,560	1,650	724	1,160	1,440	54
12	89	753	1,720	3,100	5,180	1,540	2,560	1,550	278	1,350	1,410	54
13	74	332	2,790	2,830	3,920	1,540	2,540	1,650	2,000	1,530	477	54
14	74	243	3,020	1,390	736	1,140	2,580	496	2,060	1,580	65	54
15	71	202	2,880	3,140	3,540	124	2,270	110	583	1,790	1,010	61
16	69	181	3,230	3,320	4,620	110	705	102	209	1,430	1,940	57
17	67	168	2,100	3,010	3,530	106	152	94	169	289	1,580	56
18	67	164	195	3,000	3,070	103	958	1,070	145	1,560	1,860	60
19	67	161	164	2,860	3,060	101	1,580	1,400	128	2,090	1,760	536
20	66	151	2,500	3,660	3,030	98	1,590	344	804	1,670	420	1,500
21	66	144	2,990	3,430	3,020	97	1,580	86	1,170	2,050	64	1,580
22	67	160	3,040	3,540	3,920	101	1,710	83	1,070	2,200	63	1,020
23	68	155	2,690	3,360	5,050	112	595	1,280	1,000	2,040	757	909
24	67	1,340	750	4,120	5,230	115	120	1,770	1,250	1,440	1,940	1,010
25	66	1,050	136	5,020	5,190	143	117	351	297	1,900	1,350	326
26	358	498	129	4,820	5,180	148	126	84	1,110	1,860	494	101
27	1,130	1,190	2,520	4,880	5,240	146	123	81	1,060	1,010	64	177
28	470	777	3,220	4,750	5,210	149	119	79	1,380	1,210	60	178
29	109	1,160	3,270	4,730	---	857	610	77	1,520	1,740	57	182
30	96	1,070	2,900	4,820	---	1,090	534	76	1,300	1,710	56	183
31	92	---	3,070	4,660	---	1,260	---	76	---	1,250	55	---
MEAN	147	472	1,847	3,399	4,251	1,763	1,013	636	973	1,333	977	477
MAX	1,130	1,440	3,270	6,120	5,240	5,230	2,580	1,920	2,830	2,200	1,940	1,580
MIN	63	130	129	975	736	97	117	76	73	77	55	54
IN.	0.13	0.41	1.65	3.03	3.43	1.57	0.87	0.57	0.84	1.19	0.87	0.41

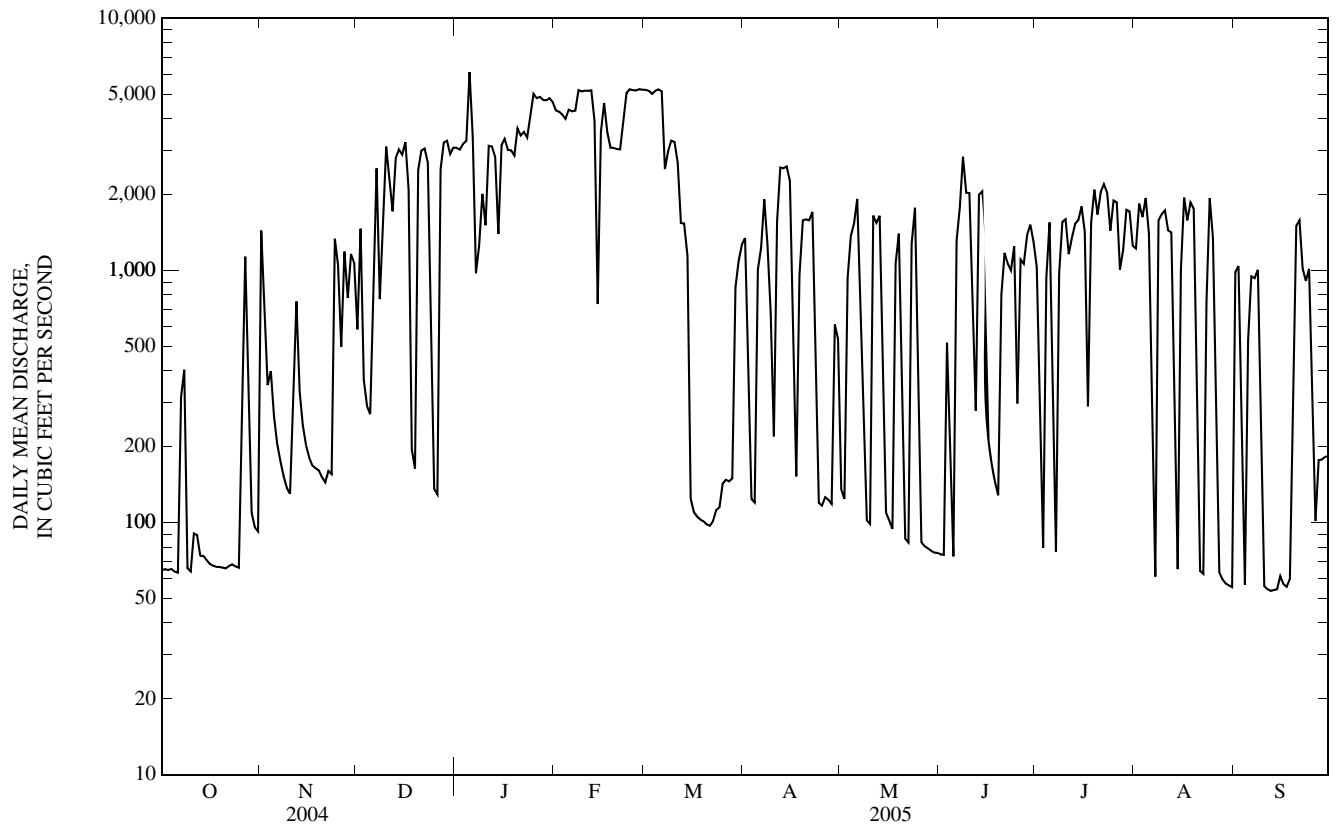
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2005, BY WATER YEAR (WY)

MEAN	590	769	1,125	1,190	1,185	1,422	1,673	1,594	1,532	1,188	961	756
MAX	4,922	4,697	3,983	4,464	4,251	4,230	4,613	3,403	4,863	4,726	2,488	1,949
(WY)	(1994)	(1994)	(1986)	(1993)	(2005)	(1975)	(1974)	(1994)	(1990)	(1995)	(1992)	(1993)
MIN	51.1	60.1	61.9	66.7	98.8	64.8	60.5	110	186	121	71.6	80.4
(WY)	(1974)	(1981)	(1981)	(1981)	(1981)	(1977)	(1981)	(2001)	(1991)	(1977)	(1991)	(1991)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1974 - 2005
ANNUAL MEAN	1,010	1,425	1,165
HIGHEST ANNUAL MEAN			2,450
LOWEST ANNUAL MEAN			256
HIGHEST DAILY MEAN	5,390	May 4	12,800
LOWEST DAILY MEAN	63	Oct 6	25
ANNUAL SEVEN-DAY MINIMUM	65	Sep 30	33
MAXIMUM PEAK FLOW	---		8,150
MAXIMUM PEAK STAGE	---		19.44
INSTANTANEOUS LOW FLOW	---		52
ANNUAL RUNOFF (INCHES)	10.65		14.98
10 PERCENT EXCEEDS	2,510		3,760
50 PERCENT EXCEEDS	698		1,010
90 PERCENT EXCEEDS	74		69

06919020 SAC RIVER AT HIGHWAY J BELOW STOCKTON, MO—Continued



06919500 CEDAR CREEK NEAR PLEASANT VIEW, MO

LOCATION.--Lat 37°50'03", long 93°52'31", in NE ¼ sec.2, T.35 N., R.27 W., Cedar County, Hydrologic Unit 10290106, on downstream side of right pier of bridge on State Highway 39, 1.5 mi north of Pleasant View, 1.8 mi downstream from Alder Creek, and 5.8 mi upstream from mouth.

DRAINAGE AREA.--420 mi².

PERIOD OF RECORD.--April 1923 to September 1926, October 1948 to current year.

REVISED RECORDS.--WSP 1146: 1923-26, drainage area. WSP 1176: 1924(M).

GAGE.--Water-stage recorder. Datum of gage is 739.46 ft above National Geodetic Vertical Datum of 1929. Apr. 22, 1923, to Sept. 30, 1926 and Oct. 1, 1948, to May 10, 1950, nonrecording gage at site 50 ft downstream at same datum; May 11, 1950, to Dec. 17, 1952, nonrecording gage, at present site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, 27.7 ft, July 20, 1909, from floodmark.

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	0.78	4,060	1,470	94	190	238	116	172	16	8.4	1.2	2.0
2	0.71	5,360	888	91	186	215	108	147	14	8.6	1.0	1.7
3	0.65	1,280	660	116	173	202	110	114	14	9.6	0.95	1.4
4	0.60	1,730	528	556	163	206	108	96	15	10	0.89	1.2
5	0.49	1,040	484	3,120	157	186	101	84	13	8.9	0.83	1.0
6	0.46	554	1,160	9,520	160	172	162	76	18	8.5	0.77	0.72
7	0.50	382	4,110	6,560	311	162	762	68	24	7.8	0.76	0.66
8	0.70	287	3,530	1,300	832	153	787	63	15	7.3	0.71	0.64
9	0.70	231	1,190	921	752	146	480	59	21	6.7	0.70	0.59
10	0.72	197	743	965	830	141	345	54	60	6.6	0.68	0.56
11	2.8	810	575	822	542	139	286	49	40	7.4	0.66	0.49
12	12	3,130	473	884	433	133	1,110	43	40	7.3	0.64	0.48
13	17	1,280	378	4,130	2,110	123	1,020	45	414	6.9	0.64	0.50
14	30	586	304	2,820	2,470	113	472	62	423	6.3	0.64	0.90
15	35	415	260	961	1,090	104	331	530	211	5.9	0.77	1.2
16	25	331	235	610	680	99	263	290	158	5.4	1.1	1.0
17	20	281	218	485	509	97	223	150	106	4.9	1.3	0.80
18	17	256	202	392	415	92	193	105	75	4.9	1.5	0.92
19	12	289	187	362	360	87	169	82	55	5.4	1.7	0.91
20	8.8	305	170	353	329	82	151	68	42	5.4	1.6	0.78
21	7.1	270	158	346	299	78	138	56	33	5.1	1.7	0.64
22	7.2	367	145	314	266	82	122	47	27	4.6	40	0.59
23	8.2	508	137	264	265	99	109	42	22	4.7	62	0.54
24	6.7	3,670	136	230	397	126	93	36	18	8.6	22	0.53
25	7.7	6,020	137	220	436	141	85	32	15	6.5	15	0.46
26	15	1,880	136	216	361	204	89	29	12	4.8	12	0.49
27	48	2,570	135	201	299	227	98	26	11	4.3	9.0	0.89
28	212	2,880	112	186	267	187	103	24	9.7	3.3	6.8	1.4
29	206	2,440	97	180	---	166	100	22	8.5	2.5	4.8	1.8
30	127	3,180	98	181	---	150	119	20	7.7	1.9	3.4	1.4
31	91	---	97	187	---	132	---	18	---	1.5	2.6	---
MEAN	29.7	1,553	618	1,212	546	145	278	87.4	64.6	6.13	6.40	0.91
MAX	212	6,020	4,110	9,520	2,470	238	1,110	530	423	10	62	2.0
MIN	0.46	197	97	91	157	78	85	18	7.7	1.5	0.64	0.46
IN.	0.08	4.13	1.70	3.33	1.35	0.40	0.74	0.24	0.17	0.02	0.02	0.00

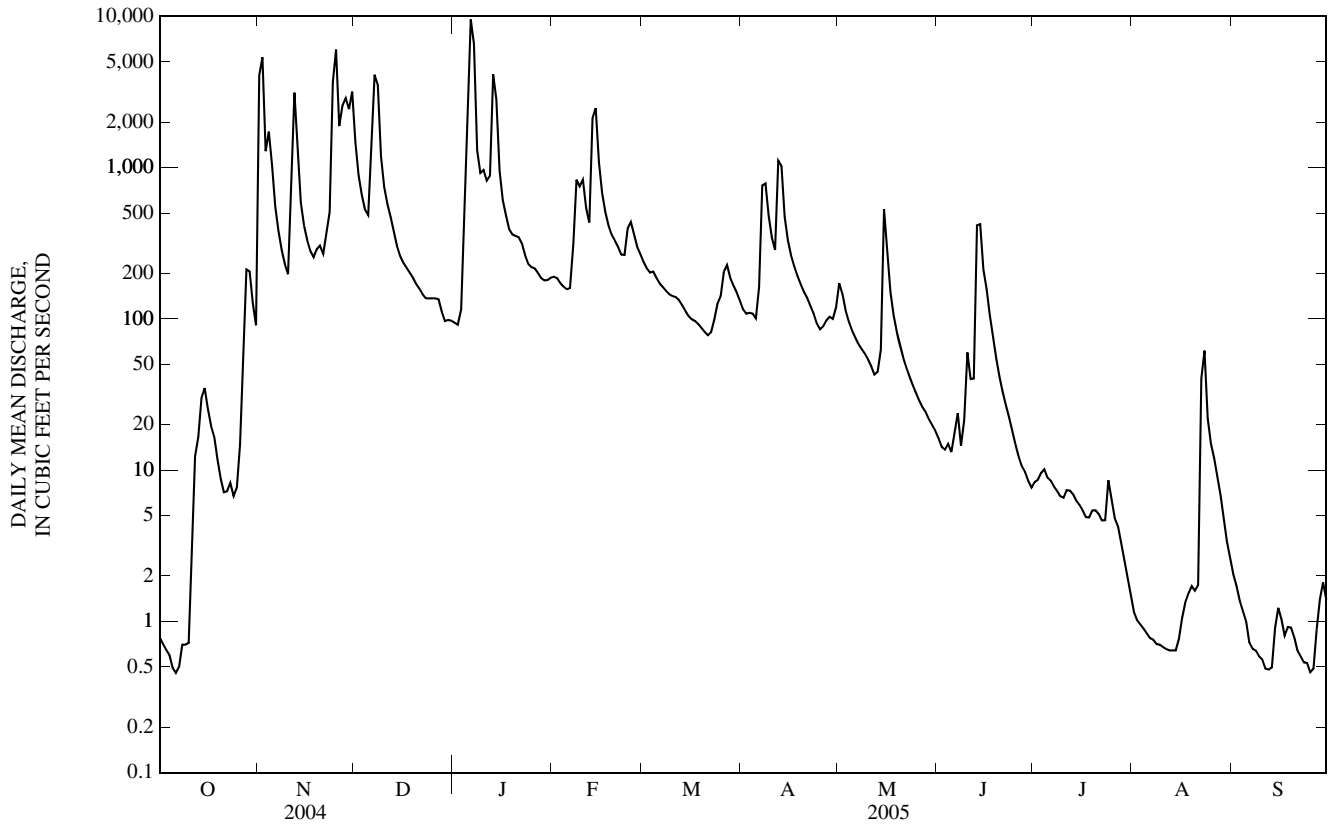
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	185	350	292	277	399	556	538	524	357	221	75.8	165
MAX	3,055	1,923	1,490	1,212	2,307	2,275	2,766	2,969	1,753	2,229	641	2,033
(WY)	(1987)	(1993)	(1993)	(2005)	(1985)	(1973)	(1994)	(1961)	(1981)	(1958)	(1950)	(1993)
MIN	0.00	0.00	0.06	0.12	0.14	0.23	4.09	39.1	4.52	0.03	0.00	0.00
(WY)	(1954)	(1954)	(1954)	(1954)	(1954)	(1954)	(1956)	(1988)	(1991)	(1954)	(1954)	(1953)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	FOR PERIOD OF RECORD
ANNUAL MEAN	452	377	327
HIGHEST ANNUAL MEAN			807
LOWEST ANNUAL MEAN			16.0
HIGHEST DAILY MEAN	8,260	Apr 25	9,520
LOWEST DAILY MEAN	0.46	Oct 6	0.46
ANNUAL SEVEN-DAY MINIMUM	0.59	Oct 3	0.56
MAXIMUM PEAK FLOW	---		11,000
MAXIMUM PEAK STAGE	---		22.09
INSTANTANEOUS LOW FLOW	---		0.40
ANNUAL RUNOFF (INCHES)	14.64		12.17
10 PERCENT EXCEEDS	921		831
50 PERCENT EXCEEDS	167		98
90 PERCENT EXCEEDS	3.6		0.82

06919500 CEDAR CREEK NEAR PLEASANT VIEW, MO—Continued



06919900 SAC RIVER NEAR CAPLINGER MILLS, MO

LOCATION.--Lat 37°52'11", long 93°48'11", in NW ¼ NE ¼ SW ¼ sec.21, T.36 N., R.26 W., St. Clair County, Hydrologic Unit 10290106, on right downstream wingwall of bridge on State Highway W, 1.5 mi downstream from Cedar Creek, and 5.0 mi north of Caplinger Mills.

DRAINAGE AREA.--1,810 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 720.82 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Some regulation from Stockton Lake (06918990). 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	89	5,500	2,730	3,300	4,680	5,670	1,590	394	120	1,350	1,290	112
2	85	7,320	2,470	3,270	4,790	5,580	1,360	356	117	924	1,600	1,170
3	84	2,340	1,510	3,630	4,380	5,470	312	297	116	152	1,800	1,050
4	81	2,550	1,010	3,970	4,530	5,530	289	2,270	616	181	1,870	137
5	77	1,680	897	14,800	4,560	5,640	488	1,120	142	1,380	1,800	113
6	75	951	1,860	18,700	4,680	5,520	1,480	2,110	467	1,440	1,170	676
7	79	693	6,690	10,800	4,650	3,860	e2,200	1,210	1,660	153	142	948
8	512	539	5,800	3,020	6,090	2,950	2,360	806	2,860	184	437	978
9	112	445	2,330	3,690	6,060	3,710	2,170	226	2,250	1,430	1,810	976
10	86	388	4,020	2,420	6,190	3,650	763	204	2,720	1,670	1,870	127
11	93	1,030	3,330	4,150	5,930	3,420	1,830	765	1,980	1,490	1,510	106
12	127	4,290	2,420	4,360	5,810	1,890	3,140	1,800	576	1,340	1,460	92
13	119	2,250	3,090	8,230	7,470	1,780	3,690	1,570	2,820	1,510	1,510	86
14	112	1,030	3,570	5,220	4,430	1,670	3,500	1,790	2,960	1,660	154	83
15	116	759	3,400	4,290	3,940	485	3,060	604	1,960	1,700	194	80
16	109	624	3,500	4,400	5,960	288	1,850	518	529	1,810	1,680	80
17	99	539	3,350	3,800	4,420	276	522	292	378	1,180	2,030	79
18	92	494	758	3,520	3,710	257	452	426	294	507	1,520	84
19	90	512	455	3,460	3,700	240	1,860	1,430	243	2,120	1,940	79
20	86	529	1,700	4,420	3,630	229	1,910	1,410	269	1,910	1,540	798
21	82	480	3,240	3,800	3,570	220	1,890	197	1,070	1,890	153	1,580
22	79	589	3,370	4,000	4,030	232	1,870	166	1,350	2,390	132	1,600
23	76	744	2,980	3,820	5,540	265	1,780	244	1,080	1,990	168	748
24	78	4,890	1,920	4,370	5,790	287	307	2,040	1,200	1,710	1,400	1,030
25	84	8,510	322	5,410	5,870	353	267	1,410	1,170	1,860	1,720	1,020
26	93	3,470	281	5,260	5,790	427	278	174	285	1,920	1,470	114
27	847	4,030	1,620	5,400	5,700	476	282	146	1,380	1,550	165	152
28	1,350	4,900	3,290	5,010	5,680	433	285	136	1,140	1,050	134	194
29	388	4,100	3,710	5,100	---	500	279	129	1,580	1,470	119	191
30	260	5,440	3,070	5,120	---	1,170	1,330	124	1,470	1,960	106	192
31	207	---	3,380	4,970	---	1,510	---	121	---	1,520	97	---
MEAN	189	2,387	2,648	5,345	5,056	2,064	1,446	790	1,160	1,400	1,064	489
MAX	1,350	8,510	6,690	18,700	7,470	5,670	3,690	2,270	2,960	2,390	2,030	1,600
MIN	75	388	281	2,420	3,570	220	267	121	116	152	97	79
IN.	0.12	1.47	1.69	3.41	2.91	1.32	0.89	0.50	0.72	0.89	0.68	0.30

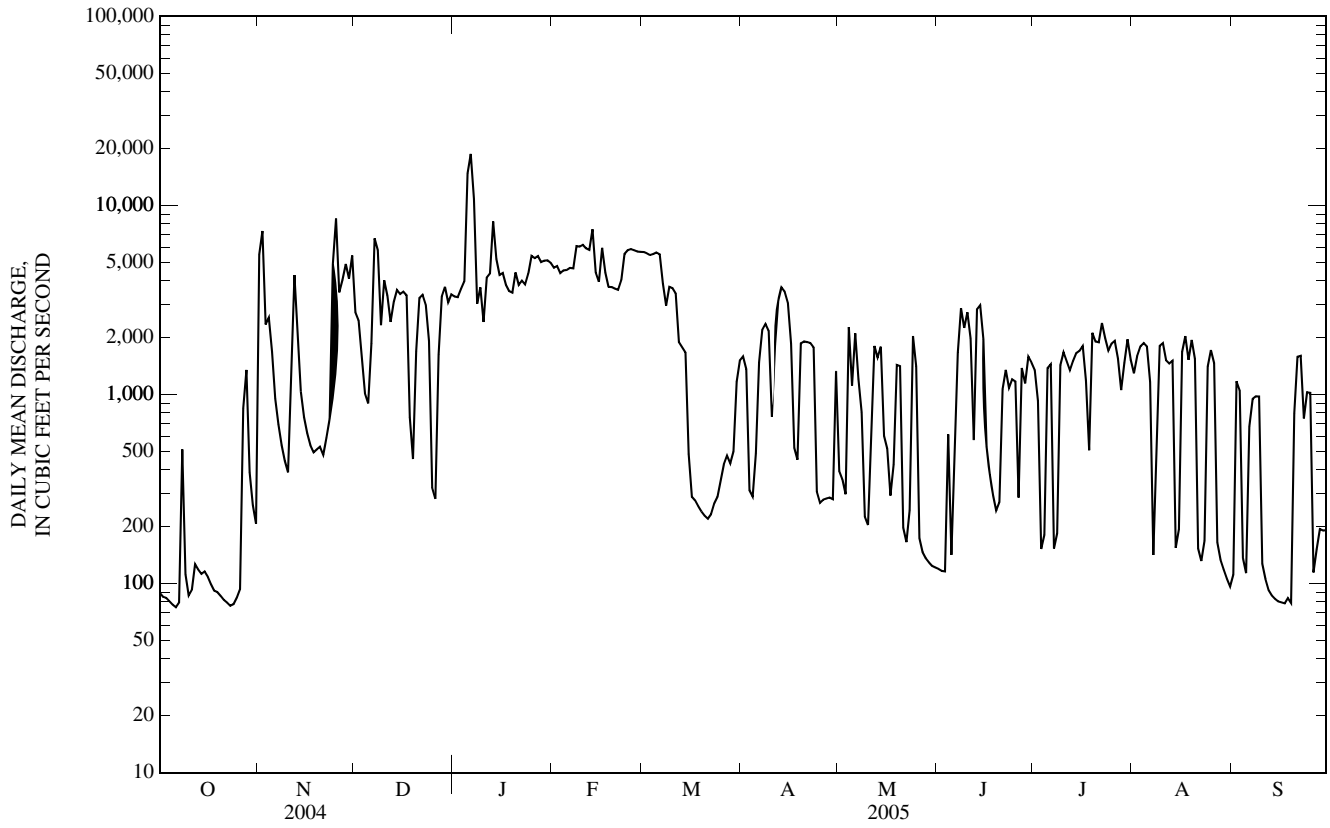
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2005, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005				
MEAN	1,115	1,370	1,612	1,542	1,766	2,164	2,379	2,403	2,020	1,418	1,057	947																							
MAX	11,070	5,392	5,838	5,487	5,202	5,630	6,805	5,782	7,046	5,283	2,850	5,283																							
(WY)	(1987)	(1994)	(1986)	(1993)	(1985)	(1985)	(1994)	(1995)	(1995)	(1995)	(1992)	(1993)																							
MIN	61.1	66.7	56.6	53.5	101	82.7	76.3	278	241	170	77.3	103																							
(WY)	(1981)	(1981)	(1981)	(1981)	(1981)	(1981)	(1981)	(2001)	(1991)	(1988)	(1991)	(1991)																							

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1975 - 2005
ANNUAL MEAN	1,581	1,985	1,648
HIGHEST ANNUAL MEAN			3,267
LOWEST ANNUAL MEAN			399
HIGHEST DAILY MEAN	11,400	Mar 5	18,700
LOWEST DAILY MEAN	75	Oct 6	75
ANNUAL SEVEN-DAY MINIMUM	81	Oct 1	81
MAXIMUM PEAK FLOW	---		20,500
MAXIMUM PEAK STAGE	---		24.95
INSTANTANEOUS LOW FLOW	---		74
ANNUAL RUNOFF (INCHES)	11.89		14.89
10 PERCENT EXCEEDS	3,930		4,990
50 PERCENT EXCEEDS	1,030		1,430
90 PERCENT EXCEEDS	114		115

e Estimated

06919900 SAC RIVER NEAR CAPLINGER MILLS, MO—Continued



06921070 POMME DE TERRE RIVER NEAR POLK, MO

LOCATION.--Lat 37°40'58", long 93°22'13", in NE ¼ NW ¼ NW ¼ sec.17, T.34 N., R.22 W., Polk County, Hydrologic Unit 10290107, on right bank 150 ft upstream from Jefferson Bridge on State Highway D, and 5 mi southwest of Polk.

DRAINAGE AREA.--276 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 872.61 ft above National Geodetic Vertical Datum of 1929.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	3,940	833	84	162	229	150	100	17	16	9.2	12
2	3.0	991	587	83	157	200	141	87	16	14	8.9	12
3	3.2	537	461	110	164	187	130	79	16	17	8.7	12
4	3.4	541	380	1,600	165	223	121	74	15	15	9.0	11
5	3.8	367	341	15,200	161	227	113	70	15	14	8.8	11
6	3.6	282	513	5,010	160	196	861	70	17	13	8.4	11
7	3.8	227	2,630	1,210	191	182	2,420	67	401	12	7.9	11
8	7.4	185	1,040	915	263	169	775	63	153	12	8.0	11
9	11	157	672	763	426	158	526	63	116	11	32	11
10	10	140	516	630	354	152	405	60	103	11	22	10
11	13	885	412	552	300	143	383	56	157	12	15	10
12	22	888	350	1,510	286	134	386	52	106	11	13	11
13	21	477	295	7,890	1,500	126	323	52	303	11	14	11
14	21	330	246	1,370	971	117	266	269	190	11	13	11
15	18	255	217	848	620	111	224	228	90	11	20	152
16	20	214	199	625	473	107	194	124	53	11	23	29
17	16	187	184	503	388	103	171	90	38	10	19	18
18	12	169	172	428	333	99	155	74	31	10	16	75
19	9.8	161	158	393	295	95	141	63	27	10	13	66
20	8.9	147	144	377	274	90	130	56	25	9.9	12	74
21	7.7	130	137	353	247	87	123	50	23	9.8	12	60
22	7.5	128	129	311	223	90	117	46	22	9.8	12	33
23	10	130	114	258	238	173	106	43	21	10	12	21
24	11	1,340	e108	235	350	270	96	39	18	10	21	15
25	8.4	1,230	e104	228	307	245	93	34	19	9.7	101	12
26	83	624	e101	219	263	221	119	27	25	9.7	56	10
27	145	808	96	196	239	229	111	21	16	11	32	9.1
28	77	643	94	181	247	260	100	20	15	11	21	8.3
29	57	1,920	94	181	---	221	99	19	15	10	17	7.6
30	37	1,630	93	181	---	190	113	18	14	9.9	14	6.6
31	31	---	90	171	---	162	---	18	---	9.4	13	---
MEAN	22.2	655	371	1,375	348	168	303	68.8	69.2	11.4	19.1	25.1
MAX	145	3,940	2,630	15,200	1,500	270	2,420	269	401	17	101	152
MIN	3.0	128	90	83	157	87	93	18	14	9.4	7.9	6.6
IN.	0.09	2.65	1.55	5.74	1.32	0.70	1.23	0.29	0.28	0.05	0.08	0.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2005, BY WATER YEAR (WY)

MEAN	143	344	318	299	334	514	500	398	213	88.8	39.1	142
MAX	1,094	1,408	1,488	1,375	1,496	1,673	1,978	1,658	1,252	450	154	2,348
(WY)	(1987)	(1986)	(1983)	(2005)	(1985)	(1973)	(1994)	(2002)	(1995)	(2000)	(1985)	(1993)
MIN	8.07	9.94	8.94	10.8	42.5	43.4	26.8	23.5	15.9	4.16	2.72	1.70
(WY)	(2003)	(1990)	(1990)	(1977)	(1981)	(1996)	(1981)	(2000)	(1988)	(1980)	(1980)	(1980)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

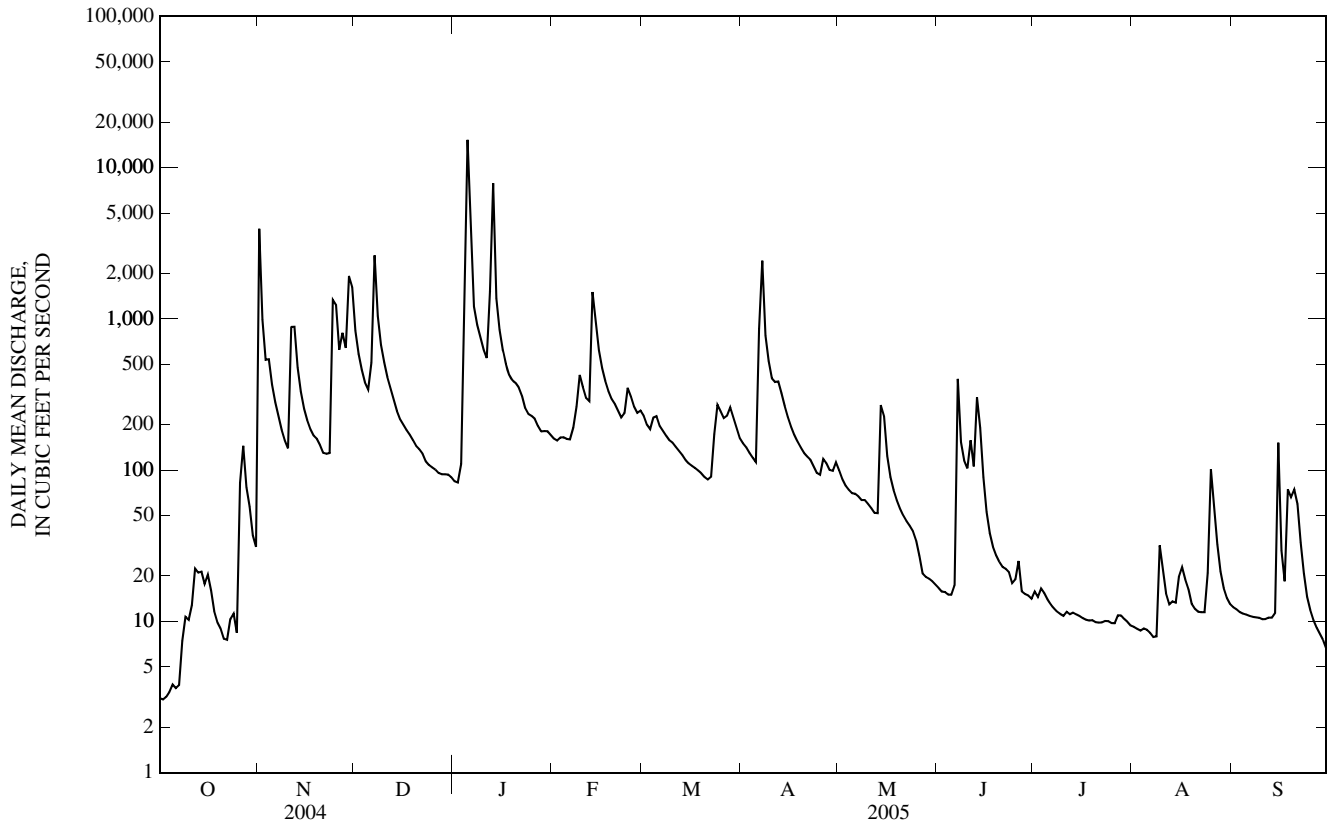
FOR 2005 WATER YEAR

WATER YEARS 1969 - 2005

ANNUAL MEAN	273	286	277
HIGHEST ANNUAL MEAN			554
LOWEST ANNUAL MEAN			85.6
HIGHEST DAILY MEAN	5,220	Mar 4	15,200
LOWEST DAILY MEAN	3.0	Sep 26-30, Oct 2	3.0
ANNUAL SEVEN-DAY MINIMUM	3.0	Sep 26	3.4
MAXIMUM PEAK FLOW	---		18,900
MAXIMUM PEAK STAGE	---		20.99
INSTANTANEOUS LOW FLOW	---		2.7
ANNUAL RUNOFF (INCHES)	13.46		14.07
10 PERCENT EXCEEDS	657		539
50 PERCENT EXCEEDS	107		99
90 PERCENT EXCEEDS	8.2		10

e Estimated

06921070 POMME DE TERRE RIVER NEAR POLK, MO—Continued



06921070 POMME DE TERRE RIVER NEAR POLK, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1983 to February 1986, 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 μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 16...	0900	Environmental	221	9.6	91	7.6	392	11.5	200	43.9	23.0	3.81
JAN 20...	1045	Environmental	377	13.2	105	7.7	361	4.5	--	--	--	--
MAR 28...	1530	Environmental	256	14.2	131	8.2	390	9.9	--	--	--	--
MAY 23...	1400	Environmental	44	6.7	84	7.5	426	25.1	220	43.6	27.4	3.37
JUL 27...	1120	Environmental	11	5.1	66	7.5	411	26.7	--	--	--	--
SEP 19...	1300	Environmental	62	6.7	80	8.0	264	22.7	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd incrm. titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd incrm. titr., field, mg/L (00450)	Carbonate, wat unfltrd incrm. titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
NOV 16...	5.61	174	172	210	<1	12.2	E.1n	10.6	233	<10	.22	<.04	1.35
JAN 20...	--	--	--	--	--	--	--	--	--	<10	.19	<.04	1.71
MAR 28...	--	--	--	--	--	--	--	--	--	<10	.30	<.04	.48
MAY 23...	5.81	197	197	240	<1	10.4	E.1n	7.3	242	11	.41	E.02n	.15
JUL 27...	--	--	--	--	--	--	--	--	--	15	.73	.05	.11
SEP 19...	--	--	--	--	--	--	--	--	--	22	.72	<.04	.29

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, μ g/L (01106)	Aluminum, water, unfltrd recoverable, μ g/L (01105)	Arsenic water, fltrd, μ g/L (01000)	Cadmium water, fltrd, μ g/L (01025)	Cadmium water, unfltrd μ g/L (01027)	Copper, water, fltrd, μ g/L (01040)	Iron, water, fltrd, μ g/L (01046)
NOV 16...	<.008	<.02	.06	.07	300	210	2	53	.4	<.04	<.04	.7	8
JAN 20...	E.005n	.03	.04	.05	160k	280	--	--	--	--	--	--	--
MAR 28...	E.007n	<.02	<.04	<.04	74	180k	--	--	--	--	--	--	--
MAY 23...	.010	<.02	.04	E.03n	27	60	2	111	1.0	<.04	<.04	.8	E3n
JUL 27...	E.005n	.02	.09	.13	670	830k	--	--	--	--	--	--	--
SEP 19...	.009	.09	.14	.19	640k	520k	--	--	--	--	--	--	--

06921070 POMME DE TERRE RIVER NEAR POLK, 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 16...	<.08	.10	11.6	<.01	E.2n	E.5n	<2
JAN 20...	--	--	--	--	--	--	--
MAR 28...	--	--	--	--	--	--	--
MAY 23...	<.08	.35	24.7	<.01	.4	.7	<2
JUL 27...	--	--	--	--	--	--	--
SEP 19...	--	--	--	--	--	--	--

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

06921200 LINDLEY CREEK NEAR POLK, MO

LOCATION.--Lat 37°45'02", long 93°15'58", in NE ¼ SE ¼ sec.29, T.35 N., R.21 W., Polk County, Hydrologic Unit 10290107, on left bank 30 ft upstream from county highway bridge, 0.5 mi downstream from Panther Creek, 2.5 mi northeast of Polk, and 11 mi upstream from Ingalls Creek.

DRAINAGE AREA.--112 mi².

PERIOD OF RECORD.--April 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 884.08 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 25, 1957, nonrecording gage at site 30 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records fair except for discharges below 5 ft³/s, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.04	2,640	320	32	64	107	51	75	2.6	1.9	0.57	1.5
2	0.03	374	232	32	62	95	52	50	2.4	1.8	0.56	1.3
3	0.02	255	184	52	71	89	44	38	2.2	2.0	0.52	1.1
4	0.02	285	155	1,600	70	113	40	32	2.9	1.8	0.52	1.0
5	0.02	165	155	7,750	63	100	37	28	2.3	1.4	0.52	0.93
6	0.01	126	354	924	63	87	511	26	8.8	1.2	0.51	0.92
7	0.02	97	1,940	346	107	83	484	24	143	1.0	0.50	0.83
8	0.06	74	380	282	119	75	215	22	118	0.88	0.49	0.78
9	0.05	61	257	296	263	71	149	22	58	0.80	0.48	0.78
10	0.05	53	197	266	165	69	116	19	96	0.74	0.48	0.79
11	0.70	727	158	216	137	62	119	17	249	0.83	0.47	0.84
12	4.3	408	138	1,530	139	57	124	14	97	0.84	0.47	0.88
13	2.1	197	114	3,470	1,410	50	99	16	320	1.1	0.56	0.97
14	1.3	141	94	409	438	44	81	33	169	1.1	0.80	2.1
15	0.76	114	84	238	246	42	68	35	61	0.92	1.1	202
16	0.48	97	81	180	177	40	57	19	32	0.76	3.7	40
17	0.41	85	74	147	148	39	49	14	22	0.73	5.7	10
18	0.36	78	70	130	130	37	43	12	16	0.78	3.5	42
19	0.25	79	61	130	120	34	39	10	11	0.95	2.6	59
20	0.23	71	54	134	116	31	35	9.0	8.5	0.85	2.5	14
21	0.53	63	53	129	105	30	33	7.6	6.7	0.74	1.7	6.2
22	0.80	75	47	113	95	36	36	6.7	5.6	0.65	6.0	3.5
23	1.1	76	44	86	126	62	32	6.0	4.8	0.55	3.1	2.2
24	1.4	1,380	36	86	195	54	27	5.5	3.8	0.50	1.6	1.5
25	1.2	558	36	88	156	86	27	5.0	3.0	0.44	107	1.2
26	174	286	35	87	128	75	60	4.5	2.6	0.45	30	1.0
27	160	870	34	74	116	102	45	4.1	2.2	0.60	9.4	0.82
28	46	339	34	69	124	109	38	3.9	1.8	0.60	4.9	0.94
29	16	1,900	36	74	---	82	44	3.6	1.6	0.58	3.3	1.1
30	9.3	553	36	76	---	67	111	3.2	1.5	0.57	2.5	0.81
31	26	---	34	69	---	51	---	2.8	---	0.57	1.8	---
MEAN	14.4	408	178	617	184	67.1	95.5	18.3	48.5	0.92	6.38	13.4
MAX	174	2,640	1,940	7,750	1,410	113	511	75	320	2.0	107	202
MIN	0.01	53	34	32	62	30	27	2.8	1.5	0.44	0.47	0.78
IN.	0.15	4.06	1.84	6.35	1.71	0.69	0.95	0.19	0.48	0.01	0.07	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2005, BY WATER YEAR (WY)

MEAN	75.9	109	113	108	127	190	176	167	78.6	35.7	13.6	50.4
MAX	812	566	526	617	764	855	903	854	421	534	100	1,134
(WY)	(1987)	(1986)	(1983)	(2005)	(1985)	(1973)	(1994)	(2002)	(1985)	(1958)	(1958)	(1993)
MIN	0.00	0.04	0.38	0.75	1.49	15.9	4.86	6.04	0.73	0.08	0.00	0.00
(WY)	(1977)	(1964)	(1964)	(1964)	(1964)	(1996)	(1981)	(2000)	(1988)	(1980)	(1980)	(1960)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

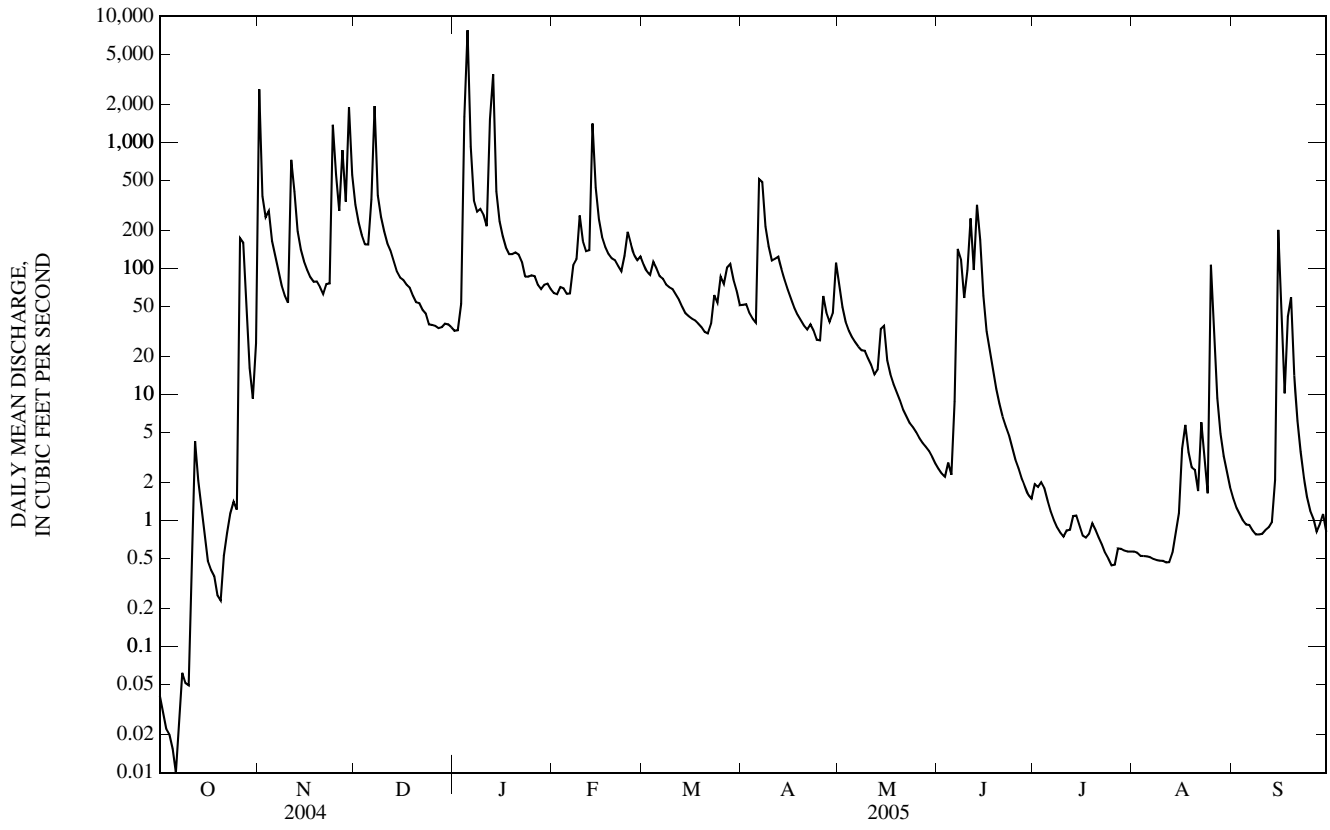
FOR 2005 WATER YEAR

WATER YEARS 1957 - 2005

ANNUAL MEAN	122	137	103
HIGHEST ANNUAL MEAN			247
LOWEST ANNUAL MEAN			18.8
HIGHEST DAILY MEAN	2,640	Nov 1	7,750
LOWEST DAILY MEAN	0.01	Oct 6	0.01
ANNUAL SEVEN-DAY MINIMUM	0.02	Oct 1	0.02
MAXIMUM PEAK FLOW	---		12,500
MAXIMUM PEAK STAGE	---		18.90
INSTANTANEOUS LOW FLOW	---		0.01
ANNUAL RUNOFF (INCHES)	14.86		16.63
10 PERCENT EXCEEDS	249		241
50 PERCENT EXCEEDS	35		36
90 PERCENT EXCEEDS	0.29		0.59

12,000 Oct 1, 1986
0.00 Many Years
0.00 Many Years
31,900 Oct 1, 1986
23.60 May 5, 1961
0.00 Many Years

06921200 LINDLEY CREEK NEAR POLK, MO—Continued



06921325 POMME DE TERRE LAKE NEAR HERMITAGE, MO

LOCATION.--Lat 37°54'11", long 93°19'01", in NE ¼ sec.2, T.36 N., R.22 W., Hickory County, Hydrologic Unit 10290107, in intake tower at dam on Pomme de Terre River, 3.0 mi southwest of Hermitage.

DRAINAGE AREA.--611 mi².

PERIOD OF RECORD.--June 1960 to current year.

GAGE.--Water-stage recorder. Nonrecording gage prior to Nov. 9, 1961. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by earthfill embankment with a concrete gravity section-type dam. Closure operation began on June 28, 1960; conservation pool level reached June 15, 1963. Capacity at top of flood control pool, 648,700 ac-ft at elevation 874.0 ft, crest of spillway, of which 407,200 ac-ft between elevations 839.0 ft and 874.0 ft is used for flood control, and 228,700 ac-ft between elevation 783.0 ft and 839.0 ft is used for conservation and 12,840 ac-ft below elevation 783.0 ft is sediment storage. 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, 506,000 ac-ft, Sept. 27, 1993, elevation, 864.58 ft; minimum, since initial filling to conservation pool level, 216,000 ac-ft, Mar. 3, 1964, elevation, 835.61 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 370,000 ac-ft, Jan. 14, elevation 853.38 ft; minimum, 234,000 ac-ft, Aug. 13, elevation, 838.55 ft.

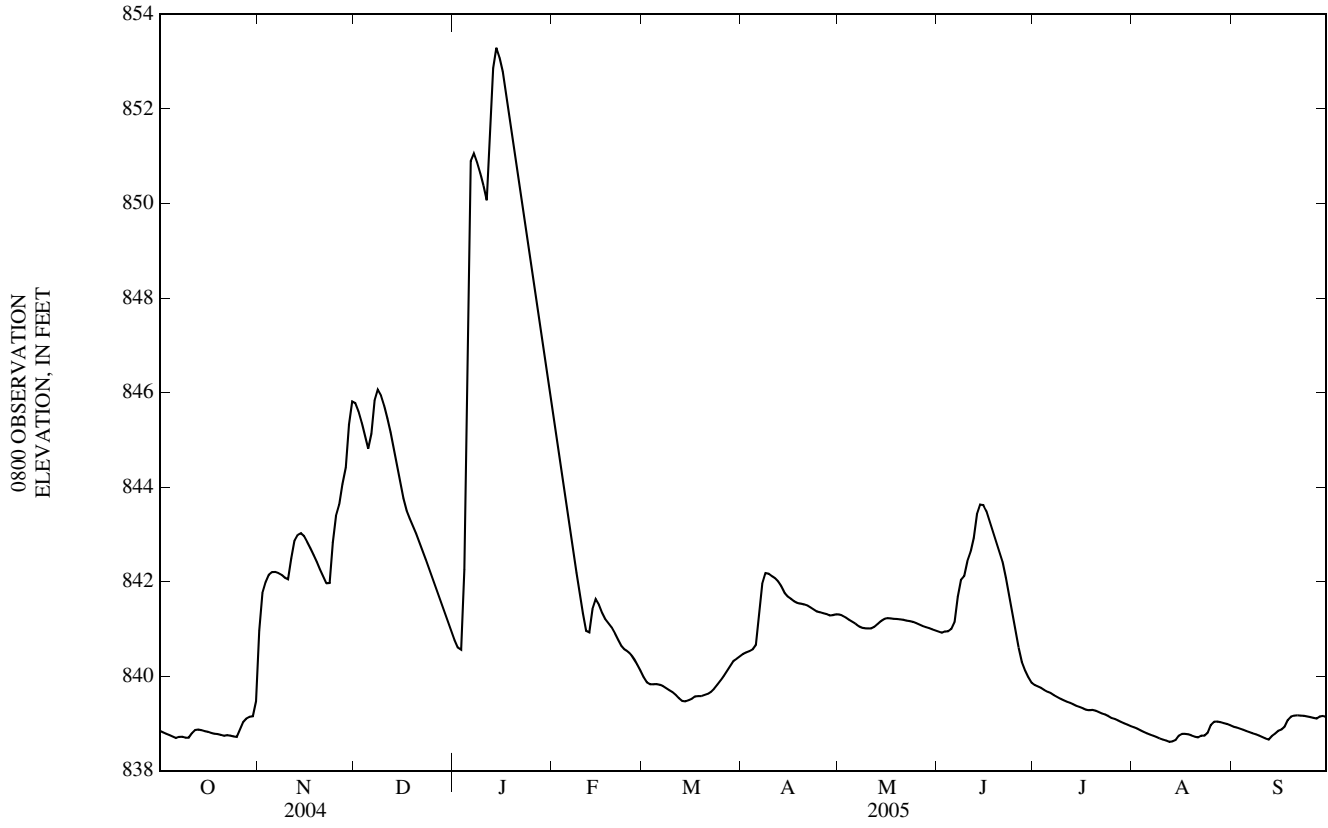
ELEVATION, IN FEET, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	838.87	839.63	845.85	840.89	846.13	840.07	840.44	841.31	840.96	839.83	838.93	838.95
2	838.83	841.63	845.74	840.70	845.64	839.93	840.48	841.30	840.93	839.80	838.91	838.92
3	838.80	841.82	845.53	840.56	845.14	839.84	840.51	841.27	840.91	839.77	838.88	838.91
4	838.77	842.07	845.28	840.56	844.60	839.82	840.54	841.23	840.96	839.74	838.84	838.88
5	838.74	842.18	844.98	843.10	844.07	839.83	840.58	841.18	840.94	839.69	838.81	838.86
6	838.71	842.21	844.73	850.41	843.49	839.83	840.70	841.14	841.03	839.66	838.78	838.83
7	838.68	842.20	845.33	851.14	843.00	839.81	841.58	841.10	841.20	839.63	838.75	838.81
8	838.73	842.17	846.08	851.02	842.49	839.78	842.14	841.04	841.92	839.58	838.73	838.78
9	838.71	842.13	846.05	850.79	842.03	839.73	842.20	841.02	842.09	839.55	838.70	838.76
10	838.69	842.06	845.88	850.56	841.64	839.69	842.15	841.01	842.13	839.51	838.67	838.73
11	838.70	842.04	845.64	850.28	841.17	839.65	842.10	841.01	842.58	839.48	838.65	838.70
12	838.84	842.71	845.36	849.96	840.85	839.58	842.06	841.01	842.65	839.45	838.63	838.67
13	838.87	842.94	845.06	851.86	840.96	839.51	841.97	841.06	843.06	839.43	838.60	838.65
14	838.87	843.01	844.72	853.36	841.65	839.46	841.86	841.12	843.61	839.39	838.63	838.77
15	838.85	843.03	844.38	853.26	841.62	839.47	841.71	841.18	843.64	839.36	838.66	838.79
16	838.83	842.93	844.01	853.00	841.46	839.50	841.67	841.22	843.61	839.34	838.78	838.87
17	838.82	842.79	843.64	852.69	841.28	839.53	841.62	841.23	843.42	839.31	838.78	838.87
18	838.79	842.66	843.44	852.31	841.17	839.59	841.56	841.22	843.22	839.28	838.78	838.96
19	838.78	842.52	843.28	851.95	841.09	839.57	841.54	841.21	843.01	839.28	838.76	839.13
20	838.77	842.37	843.13	851.56	841.00	839.58	841.53	841.21	842.79	839.29	838.73	839.15
21	838.75	842.20	842.96	851.18	840.86	839.61	841.51	841.20	842.57	839.26	838.71	839.17
22	838.73	842.07	842.77	850.78	840.73	839.63	841.49	841.19	842.34	839.23	838.70	839.17
23	838.76	841.91	842.59	850.35	840.60	839.69	841.44	841.17	841.97	839.20	838.76	839.16
24	838.73	842.00	842.41	849.90	840.55	839.76	841.40	841.16	841.61	839.18	838.73	839.16
25	838.72	843.24	842.22	849.44	840.51	839.85	841.35	841.14	841.23	839.14	838.84	839.14
26	838.71	843.47	842.03	848.98	840.43	839.94	841.35	841.11	840.86	839.10	839.03	839.13
27	838.95	843.71	841.84	848.53	840.31	840.04	841.32	841.08	840.48	839.09	839.04	839.11
28	839.07	844.24	841.64	848.06	840.21	840.15	841.31	841.05	840.22	839.05	839.04	839.10
29	839.12	844.50	841.45	847.60	---	840.25	841.27	841.03	840.07	839.02	839.02	839.17
30	839.15	845.73	841.26	847.11	---	840.36	841.30	841.01	839.93	838.99	839.00	839.15
31	839.15	---	841.07	846.62	---	840.37	---	840.98	---	838.96	838.98	---
MAX	839.15	845.73	846.08	853.36	846.13	840.37	842.20	841.31	843.64	839.83	839.04	839.17
MIN	838.68	839.63	841.07	840.56	840.21	839.46	840.44	840.98	839.93	838.96	838.60	838.65
(-)	238,000	294,000	254,000	303,000	247,000	248,000	256,000	253,000	245,000	237,000	237,000	239,000
(=)	+2,000	+56,000	-40,000	+49,000	-56,000	+1,000	+8,000	-3,000	-8,000	-8,000	0	+2,000

CAL YR 2004... +6,000
WTR YR 2005.... +3,000

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

06921325 POMME DE TERRE LAKE NEAR HERMITAGE, MO—Continued



06921350 POMME DE TERRE RIVER NEAR HERMITAGE, MO

LOCATION.--Lat 37°54'22", long 93°19'44", in NW ¼ NW ¼ sec.2, T.36 N., R.22 W., Hickory County, Hydrologic Unit 10290107, on right bank 2,000 ft downstream from outlet of Pomme de Terre Lake, 2.5 mi southwest of Hermitage, 4.5 mi upstream from Green Branch, and at mile 43.4.

DRAINAGE AREA.--615 mi².

PERIOD OF RECORD.--August 1960 to current year.

GAGE.-- Water-stage recorder. Datum of gage is 749.33 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Pomme de Terre Lake (06921325), 0.5 mi upstream. 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	40	231	2,070	938	2,540	988	106	312	83	281	50	50
2	40	506	2,060	937	2,540	846	106	313	83	94	50	51
3	40	503	2,050	938	2,610	620	107	315	84	94	50	51
4	40	500	2,050	959	2,660	460	108	316	83	94	50	51
5	39	497	2,050	702	2,650	460	109	312	83	94	50	51
6	39	496	2,050	464	2,640	460	117	321	100	94	50	50
7	40	493	2,060	1,760	2,630	463	543	322	86	94	50	50
8	39	491	2,050	2,650	2,630	463	1,050	324	227	95	50	50
9	39	490	2,050	2,630	2,630	463	1,040	212	477	95	50	50
10	39	490	2,050	2,630	2,620	465	1,040	98	478	95	50	50
11	40	494	2,050	2,620	2,210	466	1,040	98	478	95	50	50
12	40	490	2,040	2,630	1,920	465	1,040	98	479	95	50	49
13	39	490	2,040	2,650	1,930	466	1,040	99	503	95	50	50
14	40	489	2,030	2,650	1,930	282	1,040	99	484	95	51	50
15	39	741	2,020	2,640	1,930	95	792	97	484	73	52	50
16	39	975	2,020	2,640	1,790	95	515	96	778	50	51	50
17	39	973	1,640	2,640	1,330	96	514	95	1,000	50	50	49
18	39	969	947	2,630	986	96	445	94	999	50	50	50
19	39	967	948	2,630	986	97	307	93	999	50	50	49
20	39	965	947	2,620	986	98	307	92	999	50	50	49
21	39	964	947	2,620	986	99	307	91	999	50	50	49
22	38	961	948	2,620	986	99	308	91	1,380	50	50	49
23	40	961	947	2,620	987	100	307	90	1,610	50	50	49
24	39	987	945	2,610	987	100	307	89	1,610	50	50	49
25	39	972	943	2,600	987	103	308	89	1,610	50	52	49
26	40	970	942	2,590	986	103	308	88	1,600	50	50	48
27	43	983	940	2,580	986	103	309	145	1,270	50	50	48
28	40	973	940	2,580	990	103	310	82	814	50	50	49
29	39	1,560	939	2,570	---	103	312	82	536	50	50	48
30	40	2,080	939	2,570	---	104	312	82	539	50	50	48
31	40	---	939	2,550	---	105	---	83	---	50	50	---
MEAN	39.5	789	1,535	2,241	1,787	292	482	155	698	76.9	50.2	49.5
MAX	43	2,080	2,070	2,650	2,660	988	1,050	324	1,610	281	52	51
MIN	38	231	939	464	986	95	106	82	83	50	50	48
IN.	0.07	1.43	2.88	4.20	3.03	0.55	0.87	0.29	1.27	0.14	0.09	0.09

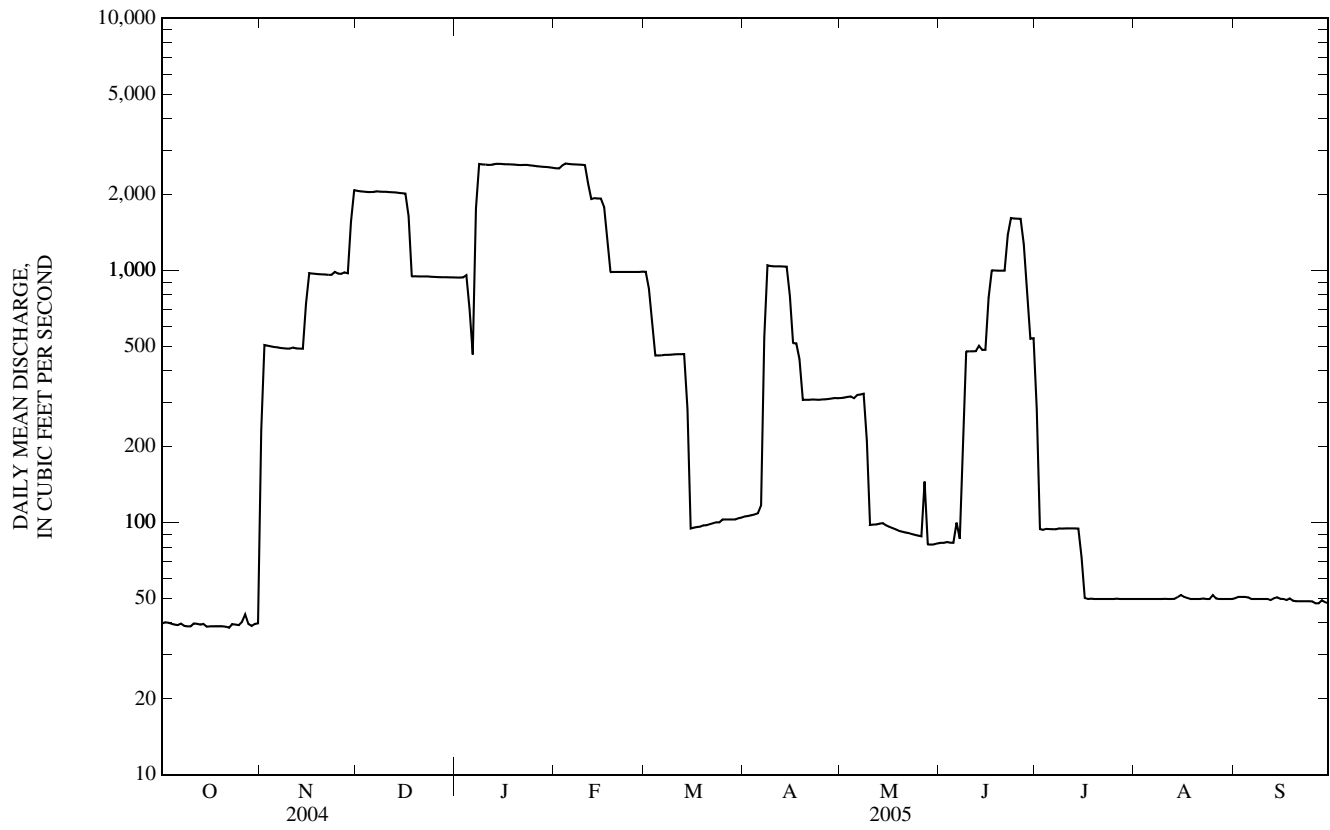
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2005, BY WATER YEAR (WY)

MEAN	309	530	625	538	594	842	836	886	626	339	115	127
MAX	3,116	2,872	2,886	2,241	2,100	3,487	2,948	4,799	2,397	2,349	480	1,110
(WY)	(1994)	(1987)	(1986)	(2005)	(1975)	(1985)	(1984)	(1961)	(2002)	(1995)	(1978)	(1993)
MIN	13.1	7.50	20.5	20.4	21.5	24.6	26.8	26.4	31.9	26.0	18.6	1.27
(WY)	(1969)	(1977)	(1963)	(1962)	(1963)	(1963)	(1963)	(1963)	(1969)	(1970)	(1961)	(1960)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1960 - 2005
ANNUAL MEAN	591	676	530
HIGHEST ANNUAL MEAN			1,163
LOWEST ANNUAL MEAN			67.8
HIGHEST DAILY MEAN	2,380	Apr 28	9,000
LOWEST DAILY MEAN	38	Oct 22	0.00
ANNUAL SEVEN-DAY MINIMUM	39	Oct 16	0.00
MAXIMUM PEAK FLOW	---		5,910
MAXIMUM PEAK STAGE	---		12.15
INSTANTANEOUS LOW FLOW	---		0.00
ANNUAL RUNOFF (INCHES)	13.08	14.92	11.72
10 PERCENT EXCEEDS	1,580	2,070	1,920
50 PERCENT EXCEEDS	349	307	103
90 PERCENT EXCEEDS	40	49	44

06921350 POMME DE TERRE RIVER NEAR HERMITAGE, MO—Continued



06921582 SOUTH GRAND RIVER BELOW FREEMAN, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 38°35'20", long 94°26'30", in NW ¼ NW ¼ NE ¼ sec.27, T.44N., R.32 W., Cass County, Hydrologic Unit 10290108, on the left bank on upstream side of bridge on gravel road, approximately 2 mi south of State Highway 2, approximately 6.1 mi southwest of Harrisonville, and 4 mi southeast of Freeman.

DRAINAGE AREA.--150 mi².

PERIOD OF RECORD.--October 1997 to current year. October 1997 to September 2000 published as South Grand River at Grand River Church (06921881).

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 ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	
NOV 03...	1115	Environmental	105	8.1	77	8.1	427	13.0	200	68.4	7.73	5.70	
JAN 11...	1330	Environmental	412	13.8	101	7.1	419	3.0	--	--	--	--	
JAN 11...	1331	Replicate	--	--	--	--	--	--	--	--	--	--	
MAR 22...	1050	Environmental	39	12.2	104	8.4	514	8.5	--	--	--	--	
MAY 06...	1100	Environmental	16	10.7	106	8.2	686	15.0	300	97.1	13.7	3.56	
JUL 22...	0910	Environmental	12	4.1	54	7.9	883	28.0	--	--	--	--	
SEP 30...	1133	Environmental	8.0	7.0	71	7.7	427	16.5	--	--	--	--	
Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
NOV 03...	13.7	168	171	208	<1	13.5	.2	28.7	290	38	.88	<.04	.35
JAN 11...	--	--	--	--	--	--	--	--	--	56	.72	<.04	.85
JAN 11...	--	--	--	--	--	--	--	--	--	58	.74	<.04	.86
MAR 22...	--	--	--	--	--	--	--	--	--	13	.74	<.04	<.06
MAY 06...	39.8	220	219	267	<1	19.6	.2	114	429	16	.46	<.04	E.05n
JUL 22...	--	--	--	--	--	--	--	--	--	44d	.56	.05	.14
SEP 30...	--	--	--	--	--	--	--	--	--	25	.60	<.04	.78
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 0.7µ MF 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 03...	E.005n	.10d	.13	.21	550k	640	2	786	1.5	E.03n	.07	2.9	31
JAN 11...	E.005n	.06	.08	.16	720	1,200	--	--	--	--	--	--	--
JAN 11...	E.005n	.06	.08	.18	--	--	--	--	--	--	--	--	--
MAR 22...	<.008	<.02	<.04	.10	40k	160	--	--	--	--	--	--	--
MAY 06...	<.008	<.02	<.04	.07	110	100	3	333	1.2	E.03n	.07	1.3	7
JUL 22...	<.008	.05	.07	.11	180	170	--	--	--	--	--	--	--
SEP 30...	.012	.07	.10	.16	120	340	--	--	--	--	--	--	--

06921582 SOUTH GRAND RIVER BELOW FREEMAN, 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 03...	.15	1.13	34.2	<.01	.4	2.4	6
JAN 11...	--	--	--	--	--	--	--
JAN 11...	--	--	--	--	--	--	--
MAR 22...	--	--	--	--	--	--	--
MAY 06...	<.08	.61	111	<.01	.6	.7	4
JUL 22...	--	--	--	--	--	--	--
SEP 30...	--	--	--	--	--	--	--

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

06921760 SOUTH GRAND RIVER NEAR CLINTON, MO

LOCATION.--Lat 38°22'12", long 93°51'29", in NW ¼ SW ¼ SE ¼ sec.1, T.41 N., R.27 W., Henry County, Hydrologic Unit 10290108, at right upstream end of bridge on State Highway 18, 4.4 mi west of Clinton, and 5.4 mi downstream from Big Creek.

DRAINAGE AREA.--1,270 mi².

PERIOD OF RECORD.--October 1986 to current year.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft above National Geodetic Vertical Datum of 1929. Auxiliary water-stage recorder 3.3 mi upstream from base gage at same datum.

REMARKS.--Records poor. Discharge is calculated using fall computations due to backwater from Harry S. Truman Reservoir. U.S. Army Corps of Engineers satellite telemeter at base and auxiliary gage.

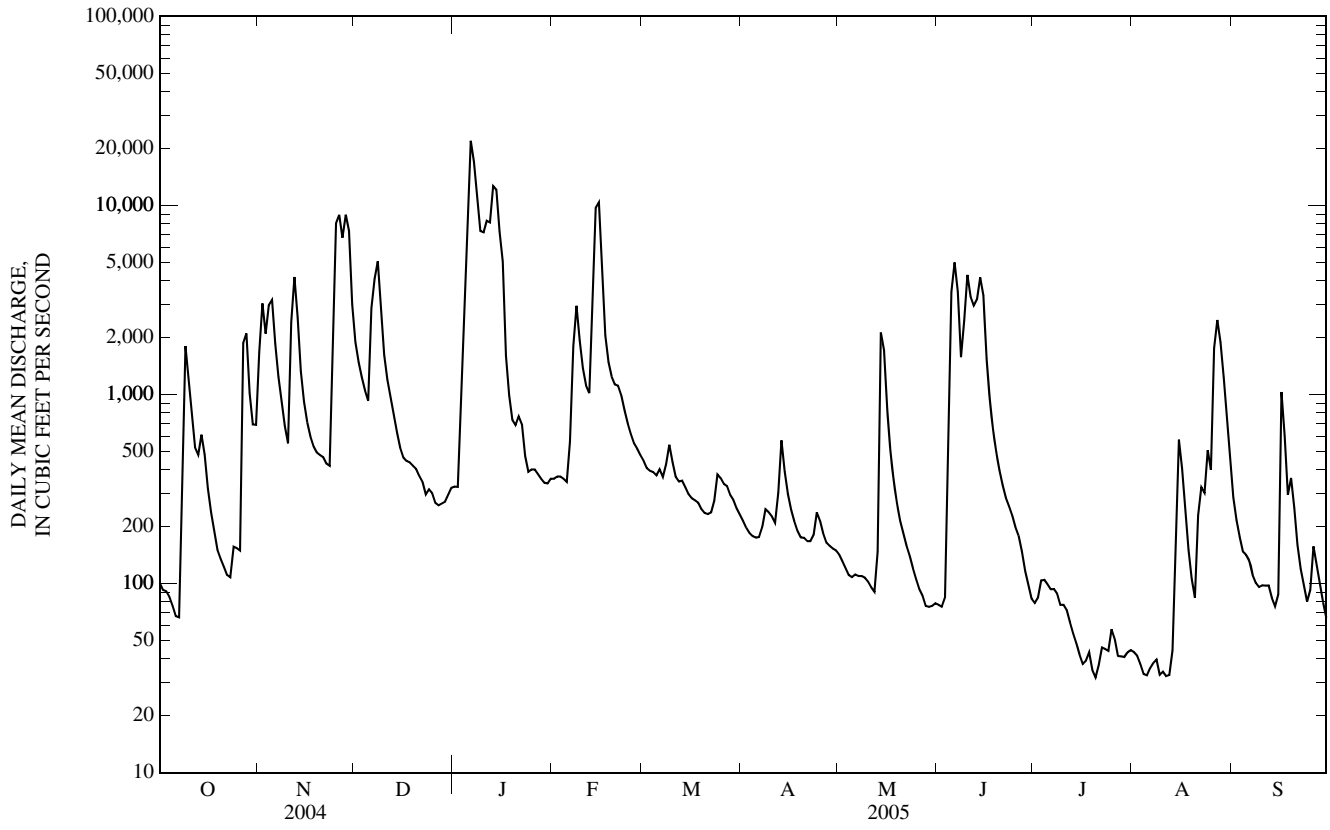
EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 23,900 ft³/s, Jan. 6; minimum 32 ft³/s, July 20 and Aug. 11.

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	101	1,680	1,890	326	e358	445	215	142	77	79	43	285
2	93	3,030	1,490	325	e369	408	198	131	75	84	42	216
3	91	2,100	1,240	918	e369	394	185	121	84	104	37	176
4	85	2,980	1,050	3,930	e358	389	178	111	500	105	33	148
5	76	3,170	926	10,200	e345	374	175	108	3,500	99	33	142
6	67	1,860	2,860	22,000	563	402	176	112	4,990	93	36	132
7	66	1,240	4,090	17,000	1,800	367	199	110	3,500	94	38	111
8	238	911	5,070	11,200	2,950	429	247	110	1,580	88	40	101
9	1,800	681	3,010	7,310	1,930	542	239	108	2,460	77	33	96
10	1,210	551	1,620	7,200	1,380	440	227	102	4,290	77	34	98
11	774	2,420	1,200	8,300	1,110	367	210	95	3,290	72	e32	97
12	525	4,180	968	8,120	1,020	347	302	90	2,950	63	e33	98
13	480	2,570	785	12,700	2,980	350	572	147	3,190	55	44	84
14	613	1,330	630	12,100	9,740	323	392	2,130	4,160	48	152	76
15	481	913	523	7,270	10,400	297	298	1,710	3,340	42	577	88
16	318	713	464	5,050	4,590	282	247	839	1,550	38	405	1,030
17	238	600	445	e1,600	2,050	276	214	501	945	39	241	604
18	188	531	438	e991	1,480	268	190	354	654	43	151	295
19	151	494	420	e734	1,240	247	175	268	497	35	106	362
20	135	479	404	e688	1,130	236	175	216	399	32	84	252
21	123	466	370	e766	1,110	233	168	185	333	37	230	160
22	111	431	344	e695	989	237	168	159	285	46	323	120
23	108	420	296	e473	826	275	181	141	258	45	301	97
24	157	2,680	315	e390	704	378	238	120	230	44	507	80
25	154	8,040	301	e402	618	362	215	105	200	57	399	93
26	149	8,910	267	e402	552	337	184	93	180	51	1,760	157
27	1,870	6,750	259	e379	516	328	165	86	149	41	2,480	126
28	2,100	8,930	265	e358	476	294	159	76	117	41	1,890	100
29	1,020	7,350	271	e342	---	277	153	75	98	41	1,230	80
30	696	3,000	294	e339	---	250	150	76	83	43	729	66
31	692	---	321	e358	---	232	---	79	---	44	438	---
MEAN	481	2,647	1,059	4,609	1,855	335	220	281	1,465	59.9	403	186
MAX	2,100	8,930	5,070	22,000	10,400	542	572	2,130	4,990	105	2,480	1,030
MIN	66	420	259	325	345	232	150	75	75	32	32	66
IN.	0.44	2.33	0.96	4.18	1.52	0.30	0.19	0.25	1.29	0.05	0.37	0.16

e Estimated

06921760 SOUTH GRAND RIVER NEAR CLINTON, MO—Continued



06922440 HARRY S. TRUMAN RESERVOIR AT WARSAW, MO

LOCATION.-- Lat 38°15'24", long 93°23'43", in NW ¼ NE ¼ sec.7, T.40 N., R.22 W., Benton County, Hydrologic Unit 10290105, in control room near middle of dam on Osage River, 1.5 mi northwest of Warsaw, and at mile 175.

DRAINAGE AREA.--11,500 mi², with 7,856 mi² uncontrolled area below other reservoirs.

PERIOD OF RECORD.--October 1981 to current year. Records collected at same site since 1977 available from U.S. Army Corps of Engineers.

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

REMARKS.--Lake is formed by a rolled earthfill type dam. Storage began on July 21, 1977. Spillway is equipped with 4 tainter gates 40 ft wide by 47.3 ft high. Capacity of surcharge pool 2,911,000 ac-ft (elevation 739.6 ft to 751.1 ft); of flood control pool 4,006,000 ac-ft (elevation 706.0 ft to 739.6 ft); and of multipurpose pool 1,203,000 ac-ft (elevation 635.0 ft to 706.0). Lake is used for flood control, power, recreation, and fish and wildlife enhancement. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 5,020,000 ac-ft, Oct. 11, 12, 1986, elevation, 738.69 ft, Oct. 11, 1986; minimum, 41,700 ac-ft, Nov. 14, 1978, elevation, 661.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,357,000 ac-ft, Jan. 15, elevation, 720.94 ft; minimum, 1,158,000 ac-ft, Oct. 7, elevation, 705.58 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	706.05	707.53	713.03	708.63	712.84	707.55	707.04	706.99	707.37	707.59	706.32	708.20
2	706.05	708.22	713.21	708.61	712.27	707.14	706.99	706.88	707.33	707.65	706.34	708.04
3	706.03	708.56	713.28	708.86	711.70	706.81	706.92	706.73	707.36	707.86	706.27	707.94
4	706.00	708.91	713.22	709.27	711.08	706.66	706.81	706.60	707.51	708.09	706.22	708.00
5	705.83	709.13	712.93	711.27	710.45	706.85	706.71	706.52	707.78	708.07	706.18	708.09
6	705.68	709.42	712.69	714.25	709.77	707.24	706.67	706.58	708.17	707.90	706.22	708.04
7	705.64	709.74	712.84	716.34	709.17	707.45	707.06	706.68	708.43	707.82	706.24	707.97
8	705.65	709.73	713.21	717.94	708.87	707.39	707.39	706.75	708.66	707.71	706.22	707.90
9	705.68	709.59	713.55	718.50	708.80	707.11	707.66	706.82	708.76	707.49	706.15	707.83
10	705.77	709.36	713.72	718.70	708.69	707.12	707.84	706.80	708.80	707.53	706.18	707.79
11	705.85	709.18	713.78	718.84	708.62	707.17	707.90	706.50	708.88	707.51	706.22	707.78
12	706.01	709.51	713.73	718.95	708.57	707.37	708.00	706.53	708.96	707.35	706.24	707.80
13	706.10	710.01	713.51	719.96	709.00	707.48	708.03	706.28	709.33	707.22	706.24	707.66
14	706.16	710.32	713.14	720.87	709.98	707.43	708.12	706.31	710.10	707.07	706.38	707.55
15	706.20	710.43	712.79	720.93	710.68	707.30	708.07	706.91	710.33	706.79	706.45	707.56
16	706.16	710.03	712.42	720.82	711.13	707.30	708.01	707.54	710.37	706.73	706.69	707.62
17	706.14	709.50	712.02	720.57	711.32	707.16	708.02	707.71	710.36	706.80	706.79	707.68
18	706.15	708.94	711.59	720.24	711.24	707.16	707.96	708.19	710.25	706.69	706.63	707.88
19	706.07	708.53	710.98	719.70	711.04	707.27	707.89	708.07	710.21	706.35	706.41	708.07
20	706.01	708.27	710.36	719.22	710.66	707.27	707.87	707.72	710.27	706.20	706.18	708.11
21	705.98	708.22	709.89	718.58	710.18	707.30	707.83	707.41	710.18	706.32	706.27	707.92
22	705.97	708.24	709.55	717.97	709.66	707.21	707.82	707.69	710.05	706.51	706.41	707.53
23	706.03	708.19	709.24	717.15	709.08	707.22	707.74	707.96	709.86	706.45	706.40	707.24
24	706.02	708.66	708.99	716.51	708.47	707.18	707.68	707.73	709.50	706.62	706.48	706.98
25	706.03	709.44	709.00	716.11	708.04	707.24	707.55	707.59	709.03	706.61	707.01	706.77
26	706.02	710.00	708.92	715.70	707.80	707.24	707.50	707.43	708.67	706.42	707.48	706.87
27	706.16	710.69	708.87	715.26	707.78	707.23	707.40	707.21	708.37	706.10	707.94	706.64
28	706.27	711.61	708.79	714.80	707.71	707.21	707.25	707.10	707.88	706.16	708.28	706.67
29	706.51	712.07	708.74	714.37	---	707.15	707.15	707.20	707.58	706.18	708.49	706.60
30	706.71	712.67	708.74	713.88	---	707.10	707.07	707.30	707.41	706.22	708.44	706.60
31	706.77	---	708.73	713.37	---	707.07	---	707.34	---	706.29	708.17	---
MAX	706.77	712.67	713.78	720.93	712.84	707.55	708.12	708.19	710.37	708.09	708.49	708.20
MIN	705.64	707.53	708.73	708.61	707.71	706.66	706.67	706.28	707.33	706.10	706.15	706.60
(-)	1,230,000	1,617,000	1,343,000	1,671,000	1,281,000	1,242,000	1,242,000	1,258,000	1,262,000	1,197,000	1,309,000	1,215,000
(=)	+50,000	+387,000	-274,000	+328,000	-390,000	-39,000	0	+16,000	+4,000	-65,000	+112,000	-94,000

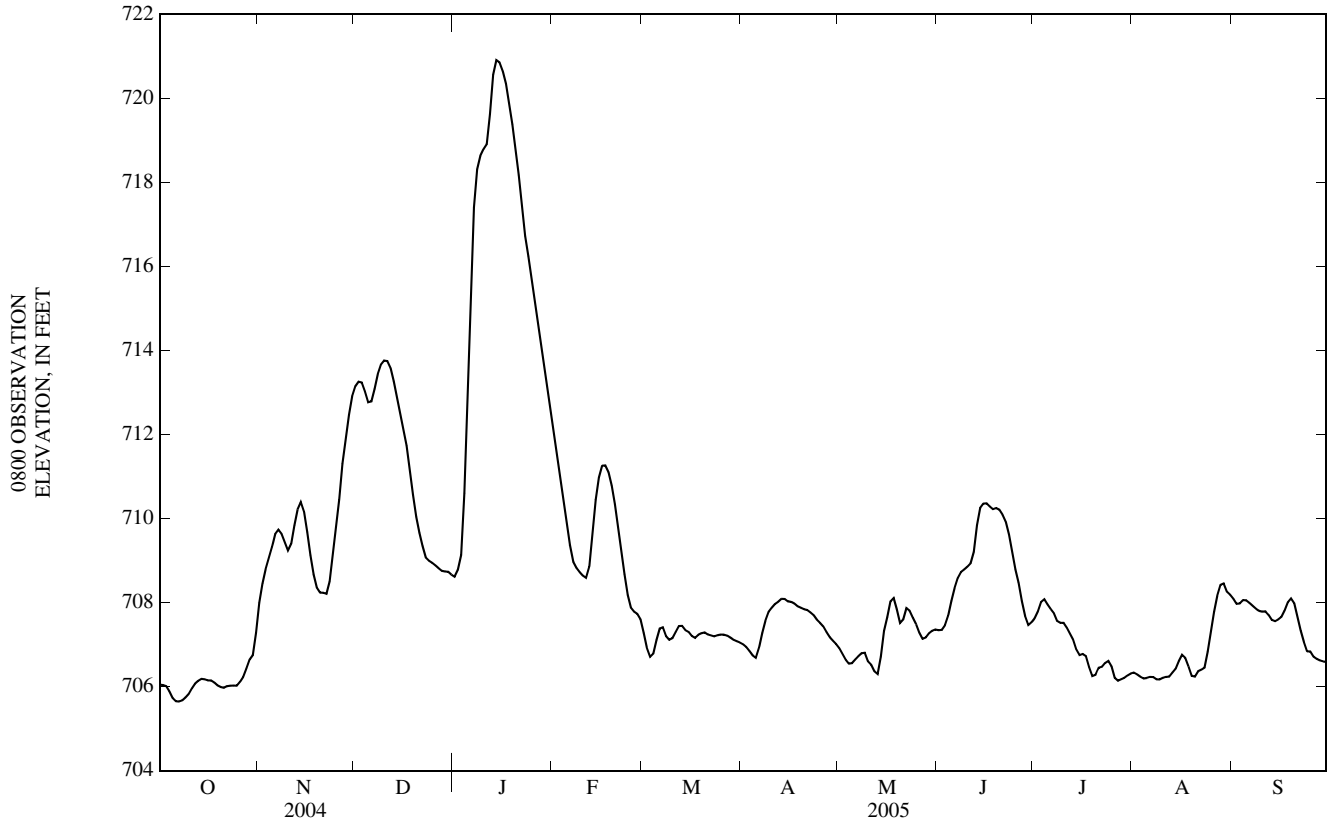
CAL YR 2004.... +23,000

WTR YR 2005.... +35,000

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

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

06922440 HARRY S. TRUMAN RESERVOIR AT WARSAW, MO—Continued



06922500 OSAGE RIVER AT WARSAW, MO

LOCATION.--Lat 38°14'39", long 93°23'15", in NE ¼SW ¼ sec. 17, T.40 N., R.22 W., 1.5 mi downstream from Truman Dam, on the left bank at the Old Highway 7 suspension bridge, at Warsaw.

DRAINAGE AREA.--11,500 mi², approximately.

PERIOD OF RECORD.--July 2002 to current year (gage height only). Discharge published Oct. 1, 1925 to April 30, 1931. Gage height records prior to Oct. 1, 2004 available from the Missouri Water Science Center

GAGE.--Water stage recorder. Datum of gage is 631.80 above National Geodetic Vertical Datum of 1929.

REMARKS.-- Flow regulated by Truman Dam 1.5 mi upstream. U.S. Army Corps of Engineers satellite telemeter at station.

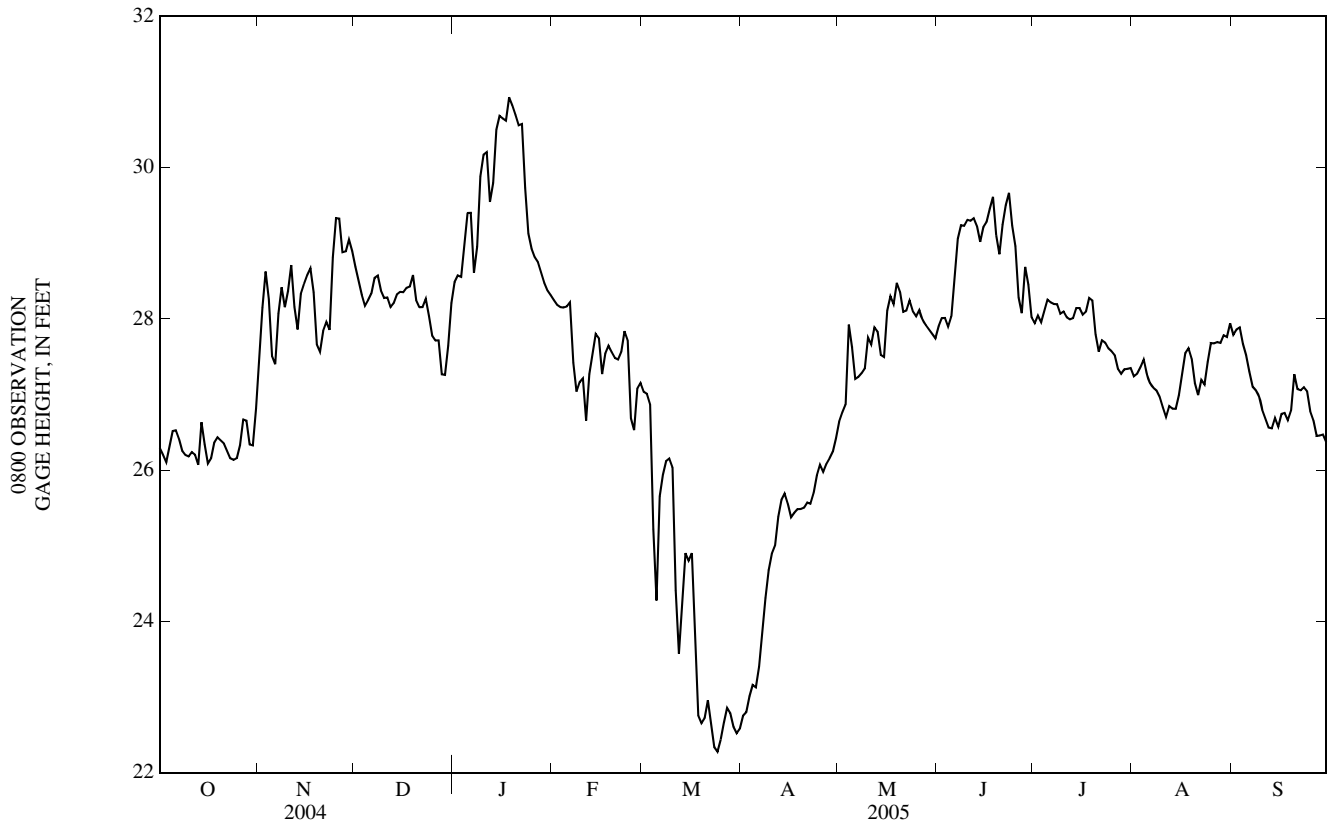
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height known, 44.54 ft, May 21, 22, 1943. Maximum gage height prior to 1943, 44.46 ft in June 1844.

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	26.29	27.03	28.81	28.42	28.30	27.09	22.62	26.49	27.72	27.93	27.36	28.05
2	26.29	27.73	28.63	28.52	28.22	27.01	22.82	26.72	27.99	27.95	27.18	27.66
3	26.16	28.36	28.44	28.60	28.17	27.01	22.79	26.79	28.02	28.09	27.32	27.96
4	26.08	28.76	28.26	28.53	28.15	26.80	23.12	26.91	28.01	27.89	27.38	27.85
5	26.43	28.01	28.13	29.18	28.15	24.43	23.18	28.43	27.84	28.22	27.50	27.58
6	26.56	27.26	28.31	29.51	28.17	24.20	23.10	27.22	28.13	28.27	27.15	27.49
7	26.51	27.47	28.35	29.35	28.24	26.38	23.55	27.20	28.68	28.19	27.15	27.21
8	26.36	28.37	28.64	28.24	27.01	25.72	24.03	27.25	29.25	28.20	27.06	27.05
9	26.20	28.44	28.54	29.31	27.05	26.32	24.45	27.30	29.23	28.19	27.05	27.06
10	26.20	28.01	28.29	30.17	27.22	26.07	24.79	27.37	29.23	28.01	26.93	26.93
11	26.17	28.55	28.27	30.17	27.21	26.02	24.95	27.95	29.35	28.14	26.78	26.73
12	26.27	28.79	28.29	30.22	26.38	23.60	25.03	27.52	29.27	27.96	26.66	26.65
13	26.17	27.84	28.09	29.21	27.71	23.56	25.56	28.07	29.36	28.01	26.94	26.52
14	26.02	27.87	28.27	30.09	27.46	24.65	25.63	27.71	29.16	28.01	26.75	26.57
15	26.94	28.56	28.35	30.71	27.97	25.03	25.72	27.43	28.95	28.21	26.84	26.75
16	26.04	28.41	28.36	30.67	27.63	24.69	25.47	27.53	29.35	28.11	27.07	26.49
17	26.11	28.66	28.35	30.64	27.09	25.01	25.33	28.40	29.25	28.03	27.37	26.87
18	26.18	28.67	28.44	30.61	27.77	23.01	25.49	28.25	29.56	28.13	27.64	26.70
19	26.46	28.19	28.42	31.09	27.58	22.63	25.48	28.17	29.64	28.35	27.60	26.64
20	26.42	27.40	28.66	30.69	27.55	22.67	25.49	28.63	28.84	28.19	27.41	26.86
21	26.38	27.65	28.04	30.70	27.45	22.75	25.51	28.22	28.86	27.60	27.02	27.47
22	26.34	27.94	28.21	30.49	27.47	23.06	25.60	28.03	29.44	27.55	26.98	26.87
23	26.21	27.97	28.13	30.62	27.61	22.43	25.53	28.15	29.54	27.80	27.30	27.15
24	26.13	27.80	28.33	29.29	27.95	22.29	25.78	28.29	29.73	27.63	27.05	27.07
25	26.14	29.32	27.89	29.05	27.60	22.27	26.00	28.00	28.98	27.60	27.62	27.03
26	26.17	29.34	27.72	28.87	26.23	22.52	26.11	28.05	28.95	27.56	27.71	26.65
27	26.41	29.32	27.71	28.79	26.68	22.73	25.91	28.15	27.95	27.50	27.66	26.66
28	26.80	28.66	27.72	28.73	27.28	22.92	26.17	27.91	28.14	27.26	27.71	26.35
29	26.58	29.01	27.04	28.55	---	22.72	26.15	27.92	28.96	27.28	27.67	26.51
30	26.22	29.07	27.37	28.44	---	22.55	26.29	27.83	28.20	27.36	27.84	26.45
31	26.38	---	27.78	28.34	---	22.51	---	27.79	---	27.33	27.72	---
MEAN	26.31	28.28	28.19	29.54	27.55	24.21	24.92	27.73	28.85	27.89	27.27	26.99
MAX	26.94	29.34	28.81	31.09	28.30	27.09	26.29	28.63	29.73	28.35	27.84	28.05
MIN	26.02	27.03	27.04	28.24	26.23	22.27	22.62	26.49	27.72	27.26	26.66	26.35

OSAGE RIVER BASIN

06922500 OSAGE RIVER AT WARSAW, MO—Continued



06923700 NIANGUA RIVER BELOW BENNETT SPRINGS, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°44'17", long 92°51'37", in NE ¼ SE ¼ sec.25, T.35 N., R.18 W., Dallas County, Hydrologic Unit 10290110, at bridge on Highway 64, 1,200 ft downstream from inflow of Bennett Spring Branch.

DRAINAGE AREA.--4,370 mi².

PERIOD OF RECORD.--October 1983 to September 1988, July 1991 to current year.

REMARKS.--Ambient Water-Quality Monitoring Network station October 1983 to September 1988, November 1993 to current year. Special project station July 1991 to October 1995.

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 ₃ (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 17...	1445	Environmental	283	10.7	107	7.6	353	13.7	180	37.4	22.1	2.42
JAN 18...	1200	Blank	--	--	--	--	--	--	--	--	--	--
JAN 18...	1215	Environmental	760	13.2	110	7.5	236	6.8	--	--	--	--
MAR 21...	1045	Environmental	325	12.8	122	7.9	348	11.8	--	--	--	--
MAY 23...	1200	Environmental	153	10.1	112	7.5	375	18.6	200	39.1	24.8	1.81
JUL 25...	1030	Environmental	137	9.2	99	7.6	395	17.5	--	--	--	--
SEP 19...	1030	Environmental	261	11.4	125	7.9	364	18.5	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)
NOV 17...	3.84	166	166	202	<1	7.12	E.1n	6.6	212	<10	.24	<.04	.95
JAN 18...	--	--	--	--	--	--	--	--	--	<10	<.10	<.04	<.06
JAN 18...	--	--	--	--	--	--	--	--	--	<10	.23	<.04	1.35
MAR 21...	--	--	--	--	--	--	--	--	--	<10	.16	<.04	.69
MAY 23...	3.65	178	178	217	<1	6.16	E.1n	4.9	212	<10	.18	<.04	.72
JUL 25...	--	--	--	--	--	--	--	--	--	<10	.11	<.04	.85
SEP 19...	--	--	--	--	--	--	--	--	--	12	.25	<.04	.75

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 0.7µ MF 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 17...	<.008	.02	E.04n	.05	27	58	2	67	E.2n	<.04	<.04	.6	E4n
JAN 18...	<.008	<.02	<.04	<.04	--	--	--	--	--	--	--	--	--
JAN 18...	<.008	E.01n	E.02n	E.04n	280	390k	--	--	--	--	--	--	--
MAR 21...	<.008	<.02	<.04	<.04	3k	3k	--	--	--	--	--	--	--
MAY 23...	<.008	<.02	E.03n	<.04	3k	14k	2	61	.3	<.04	<.04	1.3	<6
JUL 25...	E.007n	<.02	<.04	E.03n	120	25	--	--	--	--	--	--	--
SEP 19...	.008	E.01n	.05	.05	190	180	--	--	--	--	--	--	--

06923700 NIANGUA RIVER BELOW BENNETT SPRINGS, 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 17...	<.08	.17	7.9	<.01	E.3n	1.2	E1n
JAN 18...	--	--	--	--	--	--	--
JAN 18...	--	--	--	--	--	--	--
MAR 21...	--	--	--	--	--	--	--
MAY 23...	<.08	.19	9.3	<.01	.4	.8	E1n
JUL 25...	--	--	--	--	--	--	--
SEP 19...	--	--	--	--	--	--	--

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

06923950 NIANGUA RIVER AT TUNNEL DAM NEAR MACKS CREEK, MO

LOCATION.--Lat 37°56'13", long 92°51'05", in SE ¼ SW ¼ SW ¼ sec.19, T.37 N., R.17 W., Camden County, Hydrologic Unit 10290110, at left end of concrete structure on top of Tunnel Dam, 6.5 mi southeast of Macks Creek.

DRAINAGE AREA.--598 mi².

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

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

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversion upstream through tunnel for power generation. 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	134	1,810	2,800	147	295	381	574	367	251	197	174	185
2	131	3,400	1,050	141	278	358	541	299	247	188	189	175
3	130	1,980	723	158	267	330	518	241	245	182	174	166
4	127	770	506	822	273	321	506	226	244	180	148	159
5	128	263	376	10,700	263	313	490	196	235	180	146	155
6	128	160	306	24,100	260	314	527	199	260	175	148	150
7	132	326	1,460	9,250	267	300	959	182	290	171	146	143
8	142	254	2,990	2,730	315	288	2,160	171	349	168	147	139
9	139	179	2,100	2,000	443	291	1,020	165	356	165	149	139
10	139	169	1,470	1,430	542	285	608	171	624	164	162	137
11	146	320	919	1,110	534	272	453	161	354	163	146	134
12	173	554	432	1,010	481	259	481	146	311	165	145	132
13	194	955	367	5,120	1,150	249	627	134	392	165	151	134
14	202	594	235	9,260	2,030	232	357	142	220	162	174	167
15	203	390	268	3,060	1,310	214	255	124	178	162	197	309
16	196	273	342	1,940	994	197	387	286	301	157	200	1,080
17	192	191	300	1,200	746	188	332	232	285	155	186	583
18	187	135	264	724	628	183	334	173	261	154	181	491
19	182	121	234	705	547	173	346	139	245	158	183	279
20	177	197	222	455	489	164	315	112	234	160	172	277
21	172	208	221	404	451	208	302	127	226	156	164	268
22	169	192	198	350	410	203	470	150	222	150	177	135
23	169	187	173	357	385	253	352	305	222	151	283	93
24	163	1,100	146	403	391	290	285	228	201	150	539	70
25	161	2,460	128	455	450	403	252	272	e197	146	269	214
26	248	2,500	127	434	462	401	279	272	e194	141	100	214
27	397	1,650	116	405	428	445	301	277	190	164	107	203
28	249	1,010	116	374	402	537	283	271	190	157	63	197
29	356	2,100	117	353	---	694	251	266	183	153	85	193
30	351	3,790	158	333	---	659	355	260	181	153	216	179
31	341	---	150	316	---	611	---	256	---	148	203	---
MEAN	192	941	613	2,589	553	323	497	211	263	163	178	230
MAX	397	3,790	2,990	24,100	2,030	694	2,160	367	624	197	539	1,080
MIN	127	121	116	141	260	164	251	112	178	141	63	70
IN.	0.37	1.76	1.18	4.99	0.96	0.62	0.93	0.41	0.49	0.31	0.34	0.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2005, BY WATER YEAR (WY)

MEAN	212	384	296	462	437	523	563	723	247	172	173	186
MAX	492	1,345	613	2,589	845	1,458	1,696	2,819	370	248	385	462
(WY)	(1999)	(1997)	(2005)	(2005)	(2001)	(1998)	(1999)	(2002)	(1999)	(2001)	(1997)	(1996)
MIN	59.8	66.8	130	56.9	39.2	47.9	106	28.1	55.4	54.8	43.9	110
(WY)	(1998)	(1998)	(1998)	(1997)	(1996)	(1996)	(2000)	(1997)	(1996)	(1997)	(1996)	(1999)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

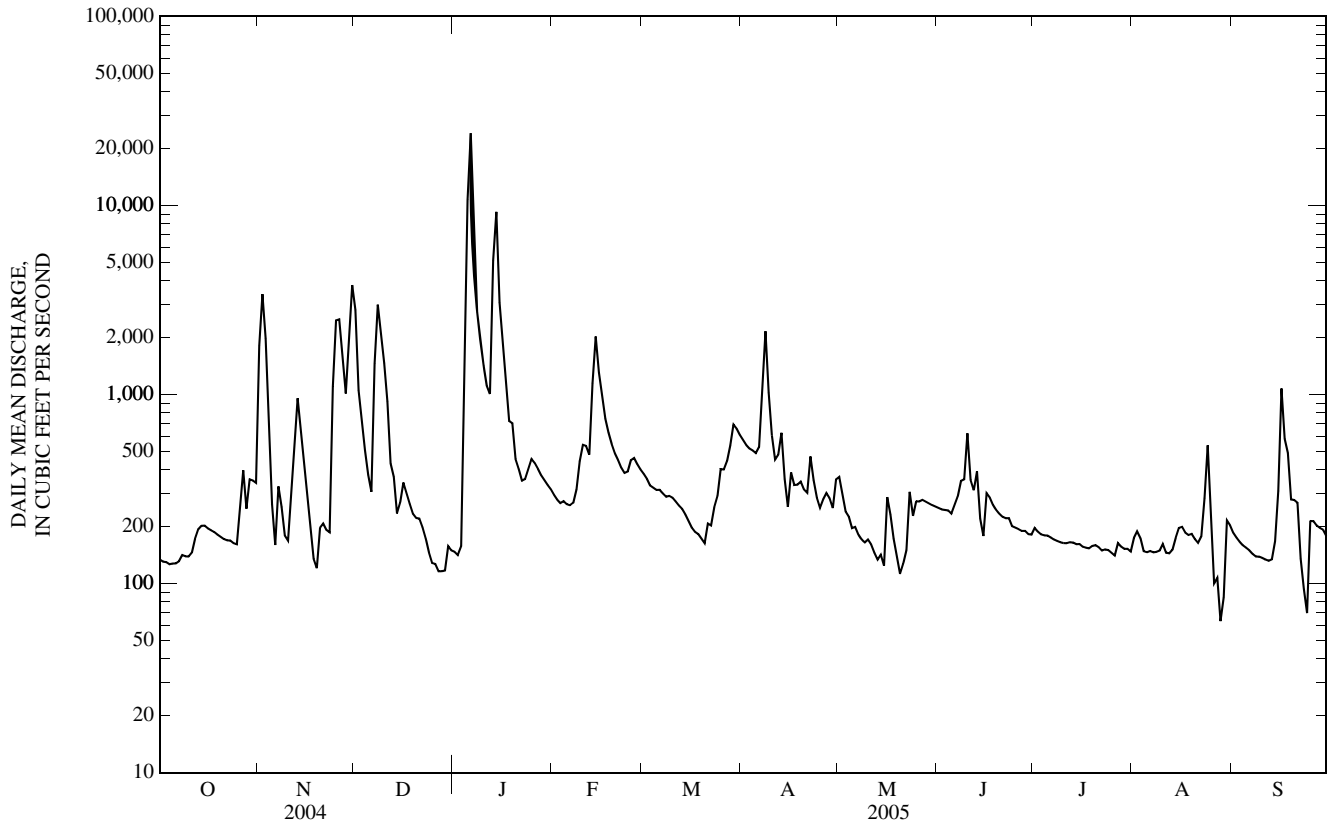
FOR 2005 WATER YEAR

WATER YEARS 1995 - 2005

ANNUAL MEAN	445	564	369
HIGHEST ANNUAL MEAN			564
LOWEST ANNUAL MEAN			143
HIGHEST DAILY MEAN	7,990	Mar 5	24,100
LOWEST DAILY MEAN	82	Aug 28	63
ANNUAL SEVEN-DAY MINIMUM	126	Feb 26	130
MAXIMUM PEAK FLOW	---		28,800
MAXIMUM PEAK STAGE	---		16.33
INSTANTANEOUS LOW FLOW	---		40
ANNUAL RUNOFF (INCHES)	10.14		12.80
10 PERCENT EXCEEDS	872		973
50 PERCENT EXCEEDS	222		249
90 PERCENT EXCEEDS	135		142

e Estimated

06923950 NIANGUA RIVER AT TUNNEL DAM NEAR MACKS CREEK, MO—Continued



06925500 LAKE OF THE OZARKS NEAR BAGNELL, MO

LOCATION.--Lat 38°12'19", long 92°37'21", in SE ¼ sec.19, T.40 N., R.15 W., Miller County, Hydrologic Unit 10290111, at left end of powerhouse section near left end of Bagnell Dam on Osage River, 2 mi southwest of Bagnell, and at mile 81.7.

DRAINAGE AREA.--14,000 mi².

PERIOD OF RECORD.--April 1931 to current year. Gage-height records collected at same site since 1932 are in reports of the National Weather Service, published as "Osage River at Bagnell Dam, Lakeside".

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum, adjustment of 1912. To obtain National Geodetic Vertical Datum of 1929, subtract 0.88 ft.

REMARKS.--Lake is formed by concrete gravity dam. Spillway is equipped with 12 tainter gates 34 ft wide by 22 ft high. Storage began in 1931. Usable capacity 1,218,000 ac-ft between elevation 630.00 ft (maximum draw-down) and 660.00 ft (top of gates). Dead storage, 708,800 ac-ft. Figures given herein are usable contents. Lake is used for flood control, power, and recreational purposes.

COOPERATION.--Records furnished by the AmerenUE of Missouri.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,527,000 ac-ft, May 22, 1943, elevation, 665.45 ft; minimum, 322,100 ac-ft, Feb. 13, 1948, elevation, 639.95 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,298,000 ac-ft, Jan. 5, elevation, 661.50 ft; minimum, 890,000 ac-ft, March 23, elevation, 653.88 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
OBSERVATION AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	657.97	659.27	659.29	659.54	657.85	656.54	654.55	658.26	659.24	659.30	658.98	659.58
2	657.94	659.43	659.08	659.83	657.74	656.32	654.46	658.34	659.29	659.37	658.99	659.56
3	657.91	659.38	658.90	659.78	657.63	656.18	654.52	658.46	659.34	659.43	659.03	659.39
4	657.96	659.20	658.91	660.17	657.54	656.05	654.50	658.64	659.40	659.41	659.04	659.26
5	658.08	658.88	658.91	661.50	657.44	656.05	654.74	658.72	659.43	659.75	658.98	659.12
6	658.12	658.97	658.93	661.09	657.43	656.10	655.11	658.78	659.55	659.70	658.95	658.90
7	658.05	659.12	659.20	660.12	657.40	655.78	655.68	658.80	659.75	659.68	658.84	658.78
8	657.96	658.83	659.12	658.98	657.32	655.60	656.07	658.86	659.87	659.68	658.78	658.71
9	657.91	658.75	659.07	658.62	657.52	655.24	656.37	658.85	659.68	659.72	658.67	658.59
10	657.89	659.05	658.99	658.62	657.48	655.41	656.59	659.20	659.50	659.68	658.57	658.45
11	657.87	659.23	658.84	658.64	657.49	655.38	656.56	659.13	659.50	659.60	658.54	658.24
12	657.96	659.03	658.95	659.03	657.62	655.30	656.64	659.31	659.47	659.62	658.45	658.14
13	657.94	659.00	658.89	659.53	658.18	655.44	656.63	659.12	659.49	659.58	658.52	658.15
14	657.94	658.95	658.98	659.60	657.98	655.58	656.74	659.14	659.23	659.81	658.62	658.20
15	657.89	659.05	659.00	659.61	657.72	655.34	656.96	659.14	659.14	659.77	658.94	658.34
16	657.89	659.05	658.90	659.53	657.40	654.92	657.03	659.37	659.27	659.78	658.98	658.35
17	657.90	659.11	659.00	659.42	657.25	654.57	657.12	659.20	659.35	659.72	659.20	658.36
18	657.92	659.11	659.00	659.42	657.22	654.55	657.15	659.23	659.38	659.84	659.24	658.46
19	657.97	659.00	659.00	659.41	657.16	654.51	657.10	659.29	659.36	659.80	659.07	658.48
20	657.97	659.24	659.13	659.27	657.08	654.47	657.18	659.53	659.38	659.45	658.85	658.68
21	657.97	659.42	659.25	659.19	657.01	654.47	657.29	659.54	659.47	659.17	658.73	658.81
22	657.98	659.11	659.30	659.05	656.91	654.21	657.45	659.45	659.57	659.31	658.67	658.70
23	657.95	659.29	659.25	659.26	656.94	653.88	657.55	659.23	659.73	659.35	658.79	658.64
24	657.93	659.67	658.90	659.22	657.02	653.97	657.71	659.27	659.88	659.21	659.01	658.48
25	657.94	659.76	658.54	659.05	656.89	654.20	657.74	659.29	659.69	659.17	659.15	658.38
26	658.16	659.72	658.55	658.85	656.97	654.36	657.61	659.35	659.50	659.25	659.17	658.28
27	658.20	659.88	658.58	658.64	656.90	654.61	657.67	659.46	659.32	659.20	659.32	658.09
28	658.26	659.53	658.59	658.48	656.67	654.27	657.70	659.44	659.54	659.18	659.31	658.12
29	658.12	659.52	658.80	658.32	---	654.15	657.87	659.42	659.55	659.15	659.31	658.15
30	658.11	659.51	659.04	658.15	---	654.29	658.04	659.36	659.43	659.12	659.36	658.15
31	658.20	---	659.34	658.00	---	654.32	---	659.27	---	659.07	659.44	---
MEAN	658.00	659.24	658.98	659.29	657.35	655.03	656.61	659.11	659.48	659.48	658.95	658.58
MAX	658.26	659.88	659.34	661.50	658.18	656.54	658.04	659.54	659.88	659.84	659.44	659.58
MIN	657.87	658.75	658.54	658.00	656.67	653.88	654.46	658.26	659.14	659.07	658.45	658.09
(-)	1,116,000	1,190,000	1,180,000	1,104,000	1,032,000	912,000	1,106,000	1,176,000	1,185,000	1,165,000	1,186,000	1,112,000
(=)	+14,000	+74,000	-10,000	-76,000	-72,000	-120,000	+194,000	+70,000	+9,000	-20,000	+21,000	-74,000

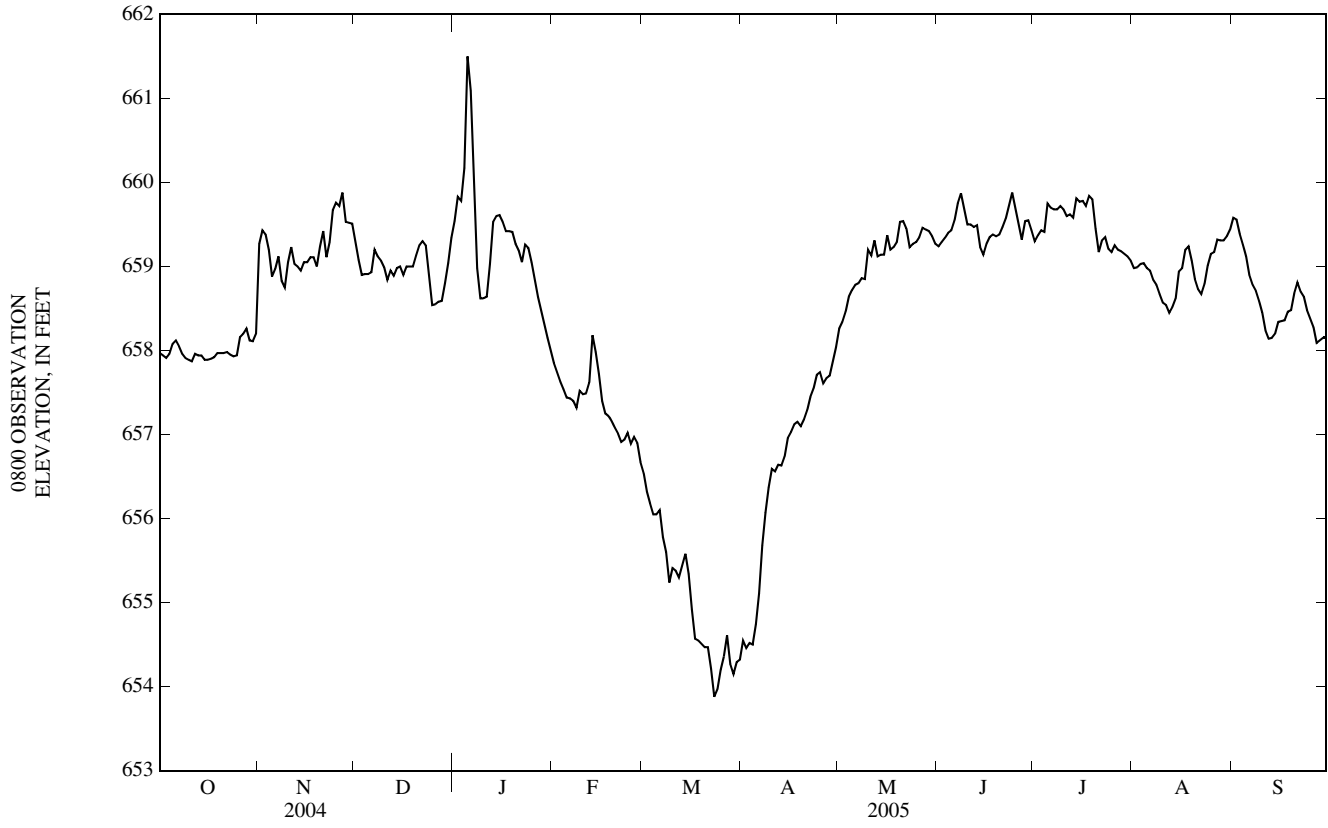
CALYR 2004.... -30,000

WTR YR 2005.... +10,000

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

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

06925500 LAKE OF THE OZARKS NEAR BAGNELL, MO—Continued



06926000 OSAGE RIVER NEAR BAGNELL, MO

LOCATION.--Lat 38°11'29", long 92°36'26", in NW ¼ NE ¼ SE ¼ sec.29, T.40 N., R.15 W., Miller County, Hydrologic Unit 10290111, on center pier of U.S. Highway 54 bridge, 1.3 mi downstream from hydroelectric plant of AmerenUE of Missouri, and at mile 80.5.

DRAINAGE AREA.--14,000 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1880 to current year. Monthly discharge only for some periods published in WSP 1310. Gage-height records collected in this vicinity 1880-1931 are contained in reports of the Missouri River Commission or the National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 549.13 ft above National Geodetic Vertical Datum of 1929 (levels by the Missouri State Highway and Transportation Commission). Nonrecording gage from October 1880 to Oct. 15, 1930, and recording gage from Oct. 15, 1930, to Sept. 30, 1979, at site 1.7 mi downstream at datum 0.56 ft lower.

REMARKS.--No estimated daily discharges. Water-discharge records fair. Flow regulated by Lake of the Ozarks (06925500), 1.3 mi upstream. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximim stage prior to 1943, 43.1 ft in June 1844 (former site and datum), discharge, 164,000 ft³/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	1,100	2,430	35,600	2,260	36,700	28,500	1,480	445	2,060	6,160	3,120	13,300
2	990	6,300	33,700	2,790	36,600	27,500	6,070	2,960	577	1,820	2,960	10,400
3	983	13,700	32,500	21,800	36,400	23,400	2,830	2,730	708	911	2,220	8,220
4	992	19,000	30,900	34,900	36,400	20,300	6,640	504	913	787	1,830	5,460
5	755	21,100	24,700	55,000	36,400	3,610	1,480	439	928	5,630	2,430	6,340
6	947	5,540	24,800	60,000	36,400	511	817	419	3,890	9,400	939	9,890
7	4,220	2,110	26,600	50,200	34,800	12,000	663	416	12,400	8,830	2,640	9,520
8	4,460	10,600	35,200	47,600	32,100	19,600	403	421	21,500	8,930	3,980	6,950
9	2,450	19,700	30,600	47,000	26,200	17,700	395	426	21,800	4,380	2,980	5,730
10	955	12,000	29,800	46,800	28,900	6,180	2,010	421	35,200	3,830	2,930	4,820
11	2,550	10,700	29,700	46,900	26,600	5,460	10,300	3,350	30,900	7,610	1,420	4,350
12	1,100	16,300	23,200	47,700	21,300	1,170	10,600	3,540	31,000	7,330	2,450	6,300
13	1,300	15,100	26,500	51,600	19,900	1,500	10,100	14,400	32,000	5,170	1,630	10,500
14	1,250	14,100	23,100	50,500	32,300	4,560	8,870	2,130	35,300	5,390	888	2,040
15	2,330	17,400	22,900	49,900	31,800	9,630	7,140	464	32,800	5,200	897	909
16	446	17,500	28,100	49,600	35,000	14,900	3,310	1,160	29,300	1,250	2,600	1,310
17	407	22,400	22,900	48,600	35,000	14,800	2,080	8,240	29,900	3,600	3,230	900
18	1,420	22,300	24,800	49,300	34,900	3,870	4,640	12,300	30,500	6,580	7,100	2,330
19	593	21,800	24,100	49,600	34,900	1,160	5,650	16,000	32,400	8,670	11,200	5,460
20	1,390	2,270	25,100	49,800	34,800	1,510	5,910	13,100	31,000	10,600	9,690	6,340
21	1,390	448	14,200	49,800	34,200	2,240	4,820	1,310	31,000	10,000	2,930	9,630
22	1,550	10,200	16,600	49,800	34,000	11,500	3,740	2,270	32,400	7,050	3,770	15,700
23	1,690	6,650	17,300	43,600	33,500	13,100	2,160	13,800	32,000	2,330	1,100	13,000
24	1,160	17,200	14,400	37,000	33,100	3,770	514	8,980	31,900	5,080	774	8,600
25	1,070	33,700	19,500	36,900	33,800	1,040	3,150	8,380	34,100	8,340	8,710	7,160
26	644	34,500	4,440	36,800	22,100	1,900	6,320	7,620	31,700	9,060	17,100	8,480
27	1,200	36,100	9,160	36,800	19,400	493	2,600	4,740	30,400	3,020	11,400	5,080
28	1,020	35,800	8,910	36,800	22,100	11,300	4,410	671	18,200	857	11,400	2,690
29	5,320	35,700	3,140	36,800	---	9,820	2,200	457	17,800	802	17,500	1,310
30	912	35,700	2,430	36,700	---	2,480	1,020	2,060	13,100	800	22,800	924
31	474	---	737	36,700	---	4,130	---	2,620	---	2,470	24,900	---
MEAN	1,518	17,280	21,470	41,920	31,410	9,020	4,077	4,412	22,920	5,222	6,113	6,455
MAX	5,320	36,100	35,600	60,000	36,700	28,500	10,600	16,000	35,300	10,600	24,900	15,700
MIN	407	448	737	2,260	19,400	493	395	416	577	787	774	900
IN.	0.13	1.38	1.77	3.45	2.34	0.74	0.33	0.36	1.83	0.43	0.50	0.51

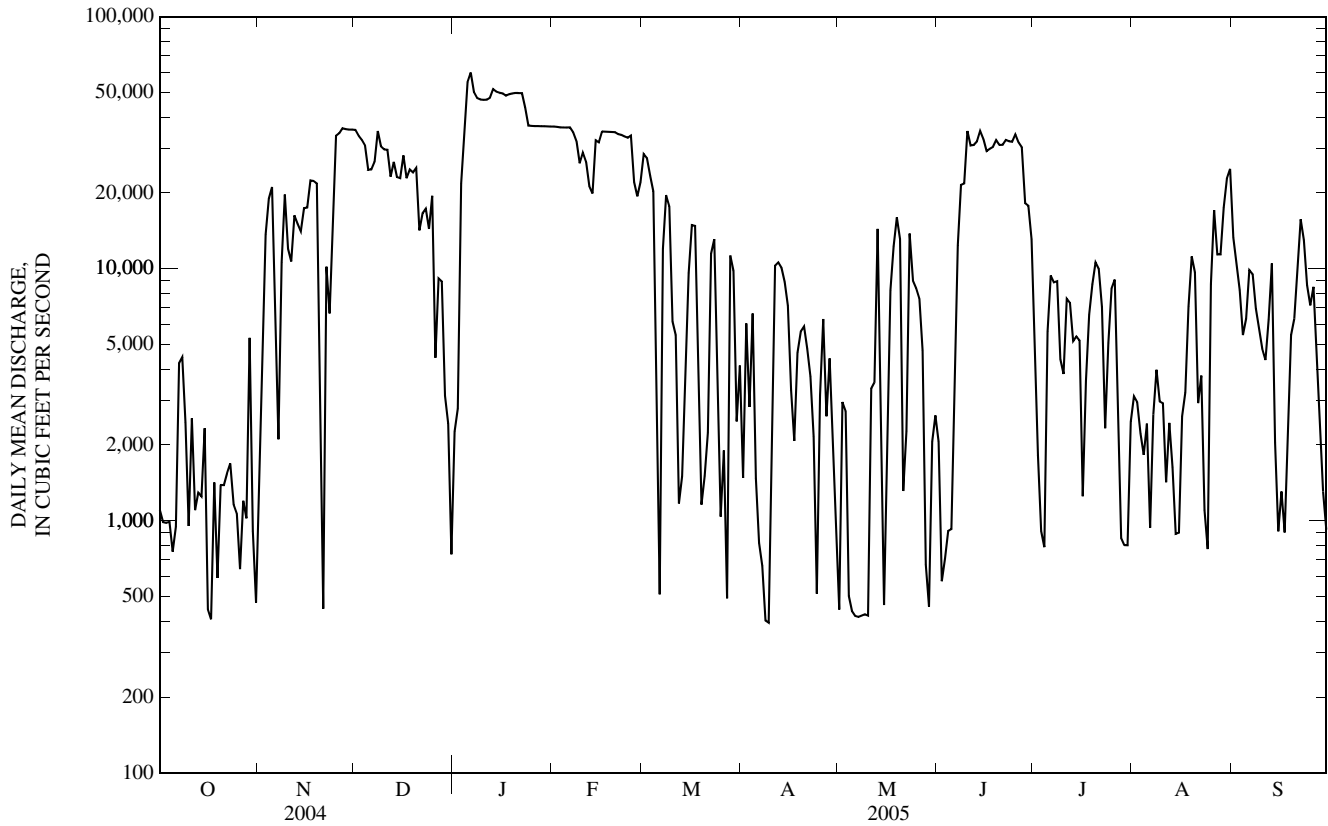
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2005^a, BY WATER YEAR (WY)

MEAN	6,963	8,438	8,196	8,475	10,150	13,580	15,300	15,760	15,430	9,495	4,955	5,686
MAX	67,300	45,270	45,050	41,920	34,720	57,300	70,040	92,260	78,160	96,780	26,560	54,540
(WY)	(1987)	(1987)	(1993)	(2005)	(1949)	(1973)	(1973)	(1943)	(1935)	(1951)	(1993)	(1951)
MIN	471	538	542	554	535	359	452	516	515	492	510	486
(WY)	(1957)	(1957)	(2003)	(2001)	(1964)	(1931)	(1931)	(1956)	(1931)	(1931)	(1956)	(1954)

06926000 OSAGE RIVER NEAR BAGNELL, MO—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1931 - 2005 ^a	
ANNUAL MEAN	12,940		14,200		10,190	
HIGHEST ANNUAL MEAN					23,360	1973
LOWEST ANNUAL MEAN					1,046	1954
HIGHEST DAILY MEAN	36,100	Nov 27	60,000	Jan 6	212,000	May 19, 1943
LOWEST DAILY MEAN	407	Oct 17	395	Apr 9	235	Apr 23, 1971
ANNUAL SEVEN-DAY MINIMUM	981	Sep 30	435	May 4	320	Mar 3, 1931
MAXIMUM PEAK FLOW	---		65,800	Jan 6	220,000	May 19, 1943
MAXIMUM PEAK STAGE	---		24.53	Jan 6	48.80	May 19, 1943
INSTANTANEOUS LOW FLOW	---		379	Apr 9	183	Sep 9, 1969
ANNUAL RUNOFF (INCHES)	12.58		13.77		9.89	
10 PERCENT EXCEEDS	32,100		35,700		30,300	
50 PERCENT EXCEEDS	9,580		8,340		4,000	
90 PERCENT EXCEEDS	1,100		905		505	

^a Post-regulation period.



06926510 OSAGE RIVER BELOW ST. THOMAS, MO

LOCATION.--Lat 38°25'17", long 92°12'30", in NW ¼ NW ¼ sec.1, T.42 N., R.12 W., Cole County, Hydrologic Unit 10290111, on downstream bridge pier of State Highway B, 3.8 mi north of St. Thomas, and at mile 34.5.

DRAINAGE AREA.--14,584 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1, 1996 to current year. August 1931 to Sept. 30, 1996, records collected at site 8.6 mi upstream, published as Osage River near St. Thomas (06926500).

GAGE.--Water-stage recorder. Datum of gage is 525.72 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Water-discharge records fair. Considerable regulation by Lake of the Ozarks (06925500), 47.2 mi upstream. 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	1,290	2,910	37,200	1,340	36,600	27,200	4,240	1,790	3,670	11,100	2,580	18,600
2	1,260	5,050	36,100	2,950	36,500	27,600	3,100	1,330	2,210	5,560	3,130	12,600
3	1,130	8,680	33,900	11,000	36,400	26,800	5,360	3,490	1,080	1,940	2,960	10,100
4	1,110	18,600	31,900	35,500	36,300	21,600	4,110	2,980	862	1,140	2,230	8,370
5	1,110	19,300	26,800	67,700	36,300	15,700	5,350	1,150	1,130	875	1,740	5,590
6	931	19,000	24,600	79,600	36,300	3,450	1,800	847	1,160	7,050	2,120	7,070
7	934	4,770	30,800	62,100	35,400	2,470	1,240	772	5,010	10,000	1,120	10,100
8	5,200	2,580	36,700	51,300	34,500	17,400	1,230	737	19,800	9,150	2,710	9,510
9	4,110	18,000	33,300	48,300	28,800	19,900	823	718	19,200	9,070	4,060	6,620
10	2,350	13,200	32,000	47,600	27,200	16,400	742	697	31,900	4,380	3,120	6,170
11	1,230	15,000	30,100	47,400	27,900	6,760	3,760	683	32,700	4,180	3,030	5,130
12	3,490	15,600	25,800	47,900	24,000	4,410	13,600	4,070	31,100	9,060	1,530	4,830
13	1,650	18,100	27,200	58,900	22,800	1,730	11,000	6,370	31,500	6,510	2,570	7,300
14	1,350	14,900	24,700	56,400	33,800	1,930	10,300	13,300	36,700	5,400	1,760	11,100
15	1,830	16,200	23,000	52,100	33,600	6,210	9,120	2,340	37,800	5,800	1,140	3,760
16	2,140	17,000	25,000	50,600	36,200	10,400	6,720	962	32,000	4,580	2,220	3,180
17	836	21,300	24,000	49,300	36,200	16,600	3,270	2,070	29,700	1,480	3,230	1,970
18	679	23,000	23,400	49,400	35,700	11,300	2,560	9,660	29,500	4,450	4,010	1,380
19	1,400	24,900	24,800	49,500	35,300	3,610	4,720	14,900	31,100	6,610	8,850	3,060
20	850	15,000	25,600	49,900	35,100	1,610	6,270	15,000	30,700	10,000	10,800	9,660
21	1,290	2,480	18,100	49,900	34,900	1,790	6,600	10,200	30,200	11,200	9,090	8,520
22	1,590	1,960	15,600	49,800	34,100	4,030	5,740	1,850	30,900	10,100	2,940	12,400
23	1,570	11,500	17,200	48,400	33,800	13,200	4,470	5,530	31,300	7,080	5,630	16,200
24	1,770	12,300	16,700	39,300	32,900	11,500	2,620	12,500	31,300	2,300	3,170	10,800
25	1,240	34,400	19,500	37,000	33,500	3,540	1,820	9,280	32,200	6,330	6,290	9,900
26	1,420	36,200	12,900	36,800	31,400	1,670	5,830	9,300	31,600	8,960	19,100	8,010
27	1,380	37,900	6,360	36,800	16,800	2,150	5,500	7,970	30,900	8,560	17,600	7,900
28	1,610	38,400	8,970	36,700	20,200	3,320	3,140	5,140	22,000	2,640	11,100	5,170
29	1,640	37,300	7,320	36,700	---	12,000	4,920	1,320	17,000	1,070	13,800	2,950
30	5,270	38,300	3,640	36,600	---	7,770	2,840	770	16,600	840	19,200	1,760
31	1,510	---	2,850	36,600	---	3,180	---	1,910	---	806	23,600	---
MEAN	1,780	18,130	22,780	43,980	32,230	9,911	4,760	4,827	22,760	5,749	6,336	7,657
MAX	5,270	38,400	37,200	79,600	36,600	27,600	13,600	15,000	37,800	11,200	23,600	18,600
MIN	679	1,960	2,850	1,340	16,800	1,610	742	683	862	806	1,120	1,380
IN.	0.14	1.39	1.80	3.48	2.30	0.78	0.36	0.38	1.74	0.45	0.50	0.59

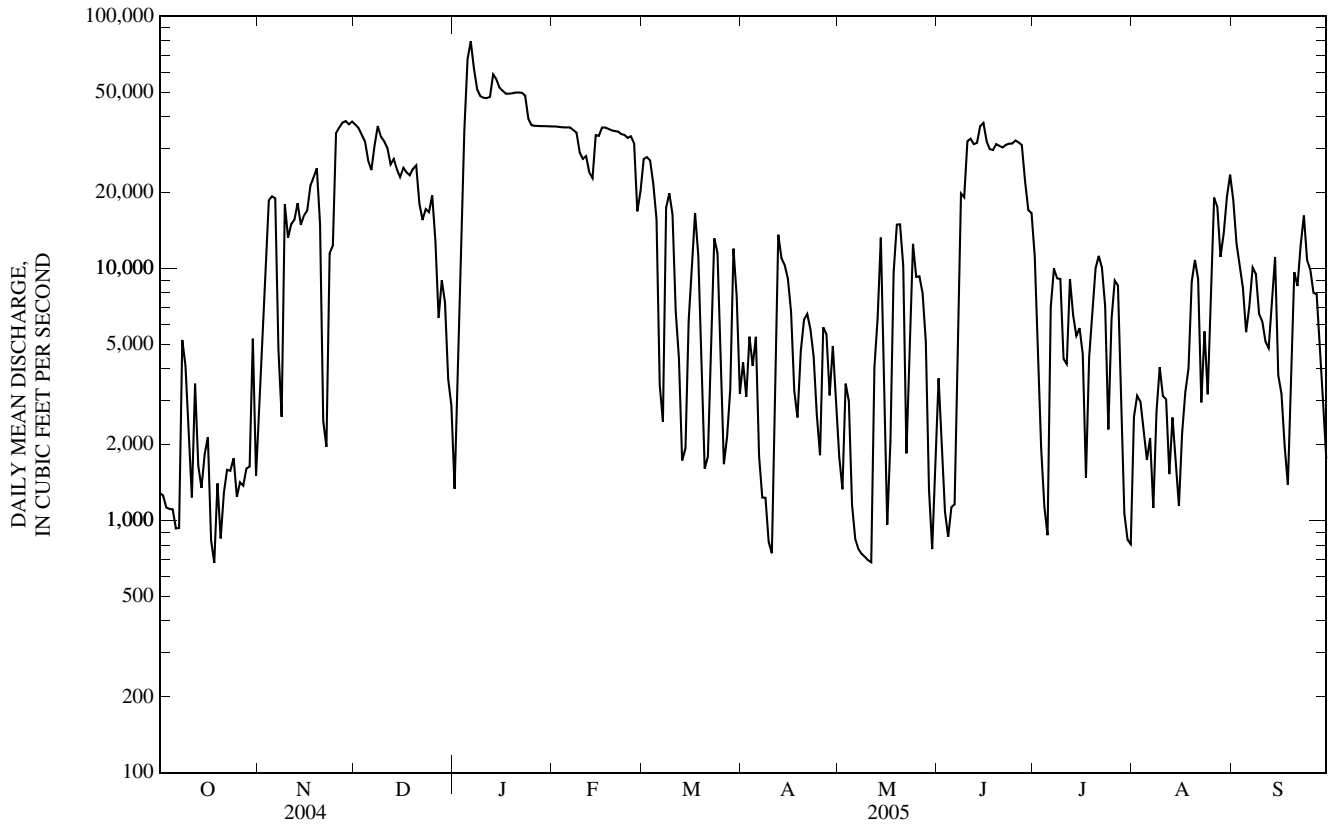
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)

MEAN	7,050	9,033	9,562	11,980	13,870	17,100	13,380	16,630	19,930	9,718	4,937	4,661
MAX	41,410	35,360	22,780	43,980	32,230	35,430	32,900	43,010	37,210	21,200	8,775	14,790
(WY)	(1999)	(1999)	(2005)	(2005)	(2005)	(1997)	(1998)	(1999)	(1999)	(1999)	(1998)	(1998)
MIN	661	629	647	687	2,229	4,305	1,814	1,334	6,089	2,761	2,257	1,263
(WY)	(2001)	(2001)	(2003)	(2001)	(2003)	(2003)	(2000)	(2000)	(2000)	(2003)	(2002)	(2001)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1996 - 2005
ANNUAL MEAN	13,700	14,950	11,490
HIGHEST ANNUAL MEAN			22,740
LOWEST ANNUAL MEAN			3,281
HIGHEST DAILY MEAN	38,400	Nov 28	79,600
LOWEST DAILY MEAN	679	Oct 18	679
ANNUAL SEVEN-DAY MINIMUM	1,110	Oct 1	801
MAXIMUM PEAK FLOW	---		82,600
MAXIMUM PEAK STAGE	---		23.37
INSTANTANEOUS LOW FLOW	---		640
ANNUAL RUNOFF (INCHES)	12.79		13.92
10 PERCENT EXCEEDS	32,700		36,500
50 PERCENT EXCEEDS	10,200		8,970
90 PERCENT EXCEEDS	1,560		1,290

06926510 OSAGE RIVER BELOW ST. THOMAS, MO—Continued



06926510 OSAGE RIVER BELOW ST. THOMAS, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1981.

WATER TEMPERATURE: October 1974 to September 1981.

REMARKS.--National Stream-Quality Accounting Network station October 1975 to September 1995. Ambient Water-Quality Monitoring Network station October 1995 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 398 microsiemens per centimeter, Jan. 1, 1981; minimum daily, 140 microsiemens per centimeter, Sept. 3, 1981.

WATER TEMPERATURE: Maximum daily, 30.0 °C, July 29, 1977, July 25 and Aug. 11, 1980; minimum daily, 0.0 °C, Jan. 21, 1978.

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 μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 29...	1230	Environmental	37,200	9.8	95	7.3	274	12.9	130	35.2	9.39	3.88
JAN 26...	1110	Environmental	36,800	12.7	97	7.6	240	3.5	--	--	--	--
MAR 09...	0910	Environmental	20,500	10.8	90	7.9	259	6.6	--	--	--	--
MAY 02...	1020	Environmental	1,160	11.5	114	8.5	299	13.4	150	39.6	12.7	3.00
JUL 13...	0840	Environmental	8,470	5.2	64	7.7	314	24.9	--	--	--	--
SEP 01...	0945	Blank	--	--	--	--	--	--	--	--	--	--
SEP 01...	0950	Environmental	20,300	6.0	78	7.5	286	26.5	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd titr., mg/L as CaCO ₃ (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)
NOV 29...	6.16	103	103	126	<1	8.76	.1	21.5	164	10	.45	<.04	.21
JAN 26...	--	--	--	--	--	--	--	--	--	11	.50	.04	.46
MAR 09...	--	--	--	--	--	--	--	--	--	<10	.42	<.04	.55
MAY 02...	5.68	121	121	143	2	7.29	.1	19.9	181	<10	.35	<.04	.33
JUL 13...	--	--	--	--	--	--	--	--	--	14	.39	<.04	.27
SEP 01...	--	--	--	--	--	--	--	--	--	<10	<.10	<.04	<.06
SEP 01...	--	--	--	--	--	--	--	--	--	24	.51	.06	.07

06926510 OSAGE RIVER BELOW ST. THOMAS, MO—Continued

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

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7 μ MF col/ 100 mL (31625)	Alum- inum, water, fltrd, μ g/L (01106)	Alum- inum, water, unfltrd recover- able, μ g/L (01105)	Arsenic water, fltrd, μ g/L (01000)	Cadmium water, fltrd, μ g/L (01025)	Cadmium water, unfltrd μ g/L (01027)	Copper, water, fltrd, μ g/L (01040)	Iron, water, fltrd, μ g/L (01046)
NOV 29...	.011	<.02	E.03n	.05	680	600	2	203	1.4	<.04	E.02n	1.4	E3n
JAN 26...	.023	<.02	.05	.08	50k	120k	--	--	--	--	--	--	--
MAR 09...	<.008	.03	.06	.07	6k	11k	--	--	--	--	--	--	--
MAY 02...	<.008	<.02	<.04	E.03n	6k	4k	E2n	127	.6	<.04	<.04	1.3	E4n
JUL 13...	.021	<.02	<.04	.06	38	53	--	--	--	--	--	--	--
SEP 01...	<.008	<.02	E.03n	<.04	--	--	--	--	--	--	--	--	--
SEP 01...	.009	.02	.05	.08	20	22	--	--	--	--	--	--	--

Date	Lead, water, fltrd, μ g/L (01049)	Lead, water, unfltrd recover- able, μ g/L (01051)	Mangan- ese, water, fltrd, μ g/L (01056)	Mercury water, unfltrd recover- able, μ g/L (71900)	Selen- ium, water, fltrd, μ g/L (01145)	Zinc, water, fltrd, μ g/L (01090)	Zinc, water, unfltrd recover- able, μ g/L (01092)
NOV 29...	.10	1.59	2.7	<.01	.5	2.4	4
JAN 26...	--	--	--	--	--	--	--
MAR 09...	--	--	--	--	--	--	--
MAY 02...	<.08	.27	17.8	<.01	E.4n	E.5n	E2n
JUL 13...	--	--	--	--	--	--	--
SEP 01...	--	--	--	--	--	--	--
SEP 01...	--	--	--	--	--	--	--

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

06927000 MARIES RIVER AT WESTPHALIA, MO

LOCATION.--Lat 38°25'55", long 91°59'19", in SW ¼ NE ¼ NE ¼ sec.35, T.43 N., R.10 W., Osage County, Hydrologic Unit 10290111, on the downstream side of bridge on U.S. Highway 63, 0.8 mi southeast of Westphalia, 1.2 mi downstream from Little Maries Creek, and at mile 9.9.

DRAINAGE AREA.--257 mi².

PERIOD OF RECORD.--December 1947 to September 1970, Oct. 1, 2002 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 542.74 ft above National Geodetic Vertical Datum of 1929. Prior to June 8, 1951, nonrecording gage at site 200 ft downstream at same datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 26, 1998 reached a stage of 24.84 ft from crest-stage gage, discharge, 56,000 ft³/s, from rating extended above 35,000 ft³/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	8.8	1,310	894	76	101	112	95	256	15	34	2.0	53
2	8.3	1,030	509	75	97	106	84	167	13	24	1.8	43
3	8.2	409	346	2,000	95	100	78	124	12	18	1.7	35
4	7.9	597	268	3,330	94	97	72	100	11	14	1.6	29
5	7.3	340	224	19,900	91	93	68	85	10	12	2.0	24
6	7.3	211	243	4,970	91	89	66	76	10	10	1.9	20
7	8.0	165	4,230	1,030	97	91	68	69	10	8.8	1.6	18
8	11	137	1,370	561	113	87	63	62	9.9	7.4	1.6	15
9	9.7	120	580	400	130	82	59	56	9.7	6.4	1.6	14
10	9.4	110	369	333	150	79	56	51	11	5.3	1.5	12
11	9.4	1,620	278	290	155	75	62	47	305	4.6	1.3	11
12	17	1,960	230	373	159	71	83	44	186	4.9	1.3	8.6
13	38	560	198	4,710	2,330	68	89	40	107	4.0	2.8	9.5
14	35	295	170	1,470	1,570	65	93	41	693	4.4	3.7	126
15	32	217	151	612	648	62	83	40	294	4.1	9.8	1,560
16	29	185	139	372	369	61	73	41	131	3.7	26	986
17	25	173	131	273	260	58	66	37	82	3.8	91	279
18	117	164	124	224	208	56	61	34	59	3.2	320	158
19	58	212	116	201	177	55	57	31	44	3.1	147	383
20	39	211	109	195	162	53	54	28	35	3.0	61	4,760
21	35	180	104	195	150	51	273	26	29	2.7	37	705
22	34	166	98	181	135	62	332	43	24	2.4	26	289
23	38	200	88	153	123	88	323	113	21	2.2	495	176
24	e32	2,920	84	135	118	104	182	55	18	1.6	536	126
25	e28	2,540	84	129	118	126	131	38	15	1.2	1,050	101
26	311	1,330	80	127	117	221	112	30	13	1.3	1,190	86
27	215	1,810	77	121	113	183	114	26	12	2.5	901	77
28	139	1,370	76	113	114	172	120	25	15	2.9	266	81
29	106	837	76	109	---	155	157	22	100	2.9	142	145
30	91	1,520	76	106	---	130	203	20	53	2.5	94	232
31	84	---	77	105	---	111	---	18	---	2.3	69	---
MEAN	51.6	763	374	1,383	289	95.6	113	59.5	78.3	6.55	177	352
MAX	311	2,920	4,230	19,900	2,330	221	332	256	693	34	1,190	4,760
MIN	7.3	110	76	75	91	51	54	18	9.7	1.2	1.3	8.6
IN.	0.23	3.31	1.68	6.21	1.17	0.43	0.49	0.27	0.34	0.03	0.79	1.53

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

MEAN	111	110	150	240	239	354	333	389	339	138	69.5	107
MAX	1,034	763	815	1,383	623	752	997	1,335	1,304	793	363	661
(WY)	(1970)	(2005)	(1968)	(2005)	(1951)	(1962)	(1966)	(1961)	(1949)	(1951)	(2004)	(1965)
MIN	0.24	2.24	4.12	4.27	6.97	9.92	37.4	24.0	8.16	3.99	0.85	0.43
(WY)	(1957)	(1954)	(1954)	(1956)	(1954)	(1954)	(1956)	(1965)	(1952)	(1959)	(1959)	(1953)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

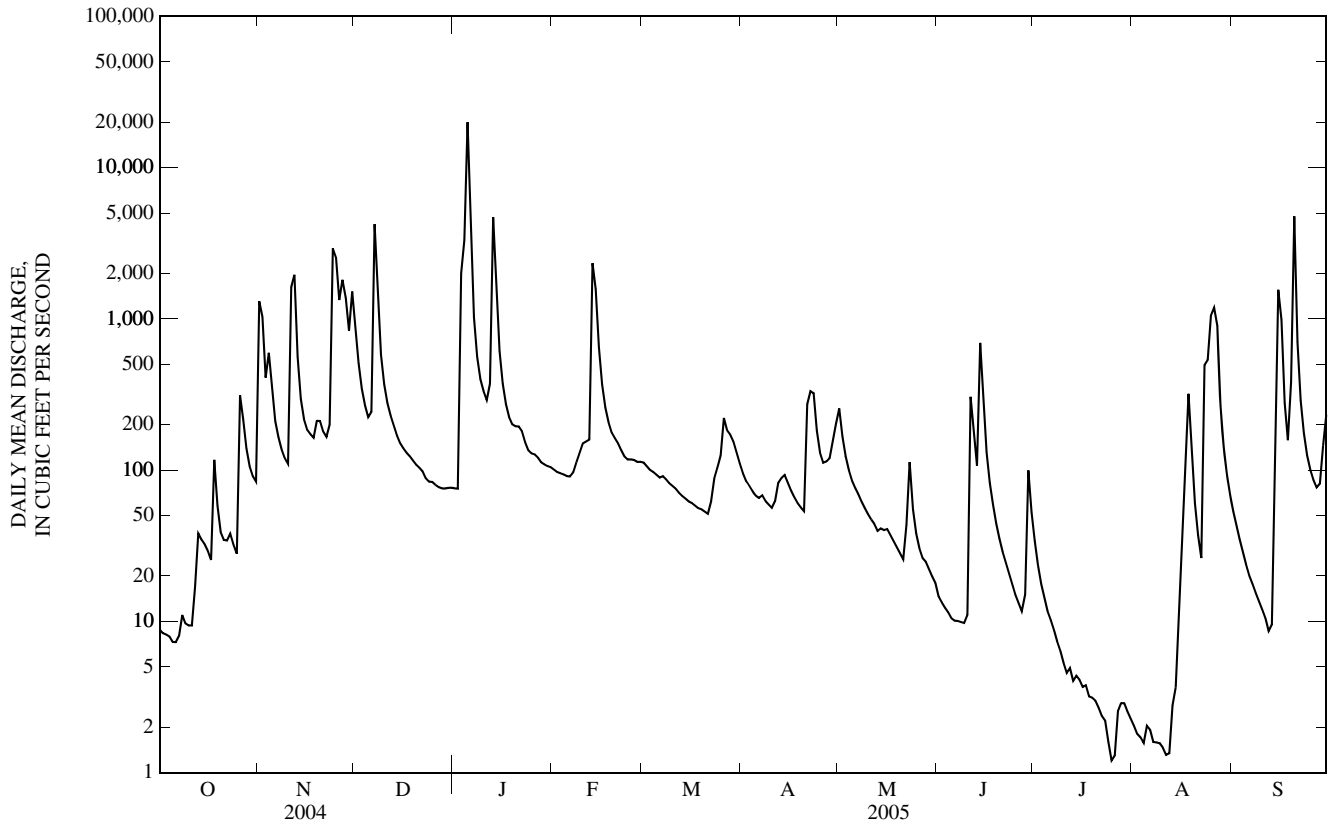
FOR 2005 WATER YEAR

FOR PERIOD OF RECORD

ANNUAL MEAN	313	312	214
HIGHEST ANNUAL MEAN			435
LOWEST ANNUAL MEAN			40.7
HIGHEST DAILY MEAN	4,230	Dec 7	19,900
LOWEST DAILY MEAN	6.1	Jul 15	1.2
ANNUAL SEVEN-DAY MINIMUM	7.6	Jul 11	1.5
MAXIMUM PEAK FLOW	---		25,500
MAXIMUM PEAK STAGE	---		19.55
INSTANTANEOUS LOW FLOW	---		0.97
ANNUAL RUNOFF (INCHES)	16.59		16.48
10 PERCENT EXCEEDS	831		560
50 PERCENT EXCEEDS	113		87
90 PERCENT EXCEEDS	17		6.0
			3.6

e Estimated

06927000 MARIES RIVER AT WESTPHALIA, MO—Continued



06928000 GASCONADE RIVER NEAR HAZELGREEN, MO

LOCATION.--Lat 37°45'33", long 92°27'06", in SW ¼ SE ¼ SE ¼ sec.15, T.35 N., R.14 W., Laclede County, Hydrologic Unit 10290201 on downstream end of center pier of bridge on south outer road, 400 ft upstream from eastbound bridge of Interstate 44, 1 mi downstream from Osage Fork, 1.5 mi west of Hazelgreen, and at mile 180.

DRAINAGE AREA.--1,250 mi².

PERIOD OF RECORD.--October 1928 to September 1971, October 2000 to current year. Prior to April 1929 monthly discharge only published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 844.75 ft above National Geodetic Vertical Datum of 1929. Prior to March 6, 1956, nonrecording gage at present site and datum. March 6, 1956 to Dec. 17, 1957, nonrecording gage at site 750 ft downstream at present datum and Dec. 18, 1957 to Aug. 20, 1958, nonrecording gage at present site and datum. Aug. 20, 1958 to September 1971, water-stage recorder at present site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 4-5, 1982 reached a stage of 34.46 ft, discharge 87,000 ft³/s from rating extended above 74,400 ft³/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	57	748	5,810	370	682	846	653	514	159	95	50	114
2	56	1,640	4,090	363	655	798	606	478	150	103	49	100
3	55	2,560	2,740	375	635	750	572	442	143	250	47	90
4	54	1,580	2,080	1,060	619	779	544	417	135	239	46	82
5	54	1,320	1,680	15,100	610	790	519	397	127	192	50	74
6	53	1,150	1,440	28,400	604	787	508	379	127	187	62	67
7	58	930	2,880	15,200	614	764	604	365	146	167	65	62
8	68	769	5,700	5,470	655	730	1,150	355	195	142	57	57
9	68	648	4,160	3,760	790	702	1,110	346	175	123	51	53
10	73	559	2,760	2,890	1,050	670	1,000	333	280	110	48	50
11	90	672	2,120	2,410	1,070	644	1,670	323	180	100	47	46
12	109	1,510	1,700	2,410	1,020	621	4,410	310	172	104	45	43
13	126	3,470	1,400	9,130	2,000	598	6,440	295	199	103	50	42
14	130	2,010	1,170	15,400	3,720	567	3,230	322	183	97	54	77
15	128	1,410	1,010	7,490	3,620	539	2,260	346	166	89	63	236
16	144	1,110	893	4,110	2,590	514	1,750	402	150	82	77	252
17	153	913	811	2,990	2,030	493	1,440	459	148	78	81	192
18	145	781	747	2,370	1,670	477	1,210	404	169	77	94	223
19	136	687	693	2,010	1,430	463	1,050	363	176	112	72	233
20	131	615	642	1,770	1,260	449	942	333	161	150	63	219
21	125	561	602	1,590	1,140	434	858	307	144	104	60	300
22	119	522	568	1,420	1,050	440	793	285	132	91	64	387
23	116	483	531	1,250	989	450	738	267	121	85	181	328
24	112	610	507	1,110	972	514	734	250	112	71	354	275
25	107	1,160	465	1,020	996	721	667	236	104	71	400	247
26	124	1,510	445	963	972	803	641	223	98	69	282	221
27	157	1,510	425	898	921	793	600	210	96	68	236	199
28	151	1,490	407	832	887	768	586	199	103	63	205	180
29	143	2,120	395	785	---	770	558	187	96	58	175	180
30	258	4,190	384	744	---	740	549	177	90	55	149	207
31	261	---	376	715	---	696	---	168	---	53	129	---
MEAN	115	1,308	1,601	4,336	1,259	649	1,280	326	148	109	110	161
MAX	261	4,190	5,810	28,400	3,720	846	6,440	514	280	250	400	387
MIN	53	483	376	363	604	434	508	168	90	53	45	42
IN.	0.11	1.17	1.48	4.00	1.05	0.60	1.14	0.30	0.13	0.10	0.10	0.14

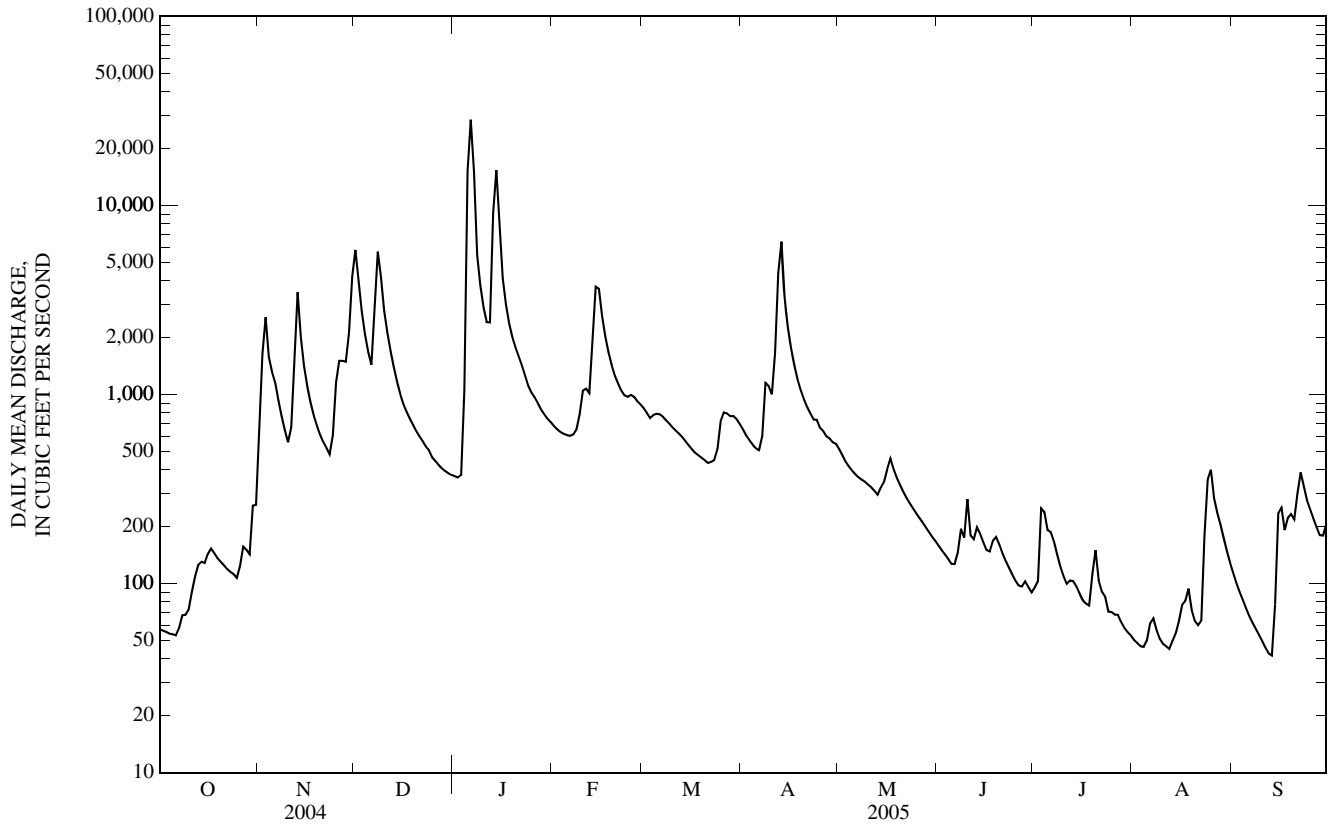
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	472	658	735	1,012	1,187	1,555	1,719	1,848	1,066	516	279	355
MAX	4,943	4,273	3,361	4,805	3,209	6,584	10,180	7,340	8,710	5,322	1,467	2,519
(WY)	(1950)	(1952)	(1943)	(1950)	(1938)	(1945)	(1945)	(1943)	(1935)	(1958)	(1946)	(1970)
MIN	31.6	65.8	72.6	68.0	91.2	141	130	202	83.2	41.8	30.8	25.6
(WY)	(1957)	(1954)	(1956)	(1956)	(1964)	(1956)	(1956)	(1932)	(1936)	(1934)	(1936)	(1954)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	FOR PERIOD OF RECORD
ANNUAL MEAN	986	950	948
HIGHEST ANNUAL MEAN			2,236
LOWEST ANNUAL MEAN			123
HIGHEST DAILY MEAN	14,800	Mar 5	28,400
LOWEST DAILY MEAN	53	Oct 6	42
ANNUAL SEVEN-DAY MINIMUM	55	Sep 30	50
MAXIMUM PEAK FLOW	---		31,200
MAXIMUM PEAK STAGE	---		21.05
INSTANTANEOUS LOW FLOW	---		38
ANNUAL RUNOFF (INCHES)	10.74		10.32
10 PERCENT EXCEEDS	2,120		2,000
50 PERCENT EXCEEDS	515		400
90 PERCENT EXCEEDS	109		66

06928000 GASCONADE RIVER NEAR HAZELGREEN, MO—Continued



06928300 ROUBIDOUX CREEK ABOVE FT. LEONARD WOOD, MO

LOCATION.--Lat 37°36'04", long 92°14'02", in NE ¼ SW ¼ NE ¼ sec.3, T.33 N., R.12 W., Pulaski County, Hydrologic Unit 10290201, on State Highway 17 bridge, 12 mi south of Ft. Leonard Wood.

DRAINAGE AREA.--165 mi².

PERIOD OF RECORD.--Dec. 29, 1999 to current year.

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

REMARKS.--No estimated daily discharges. Records 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	3.4	67	718	20	58	98	58	42	9.9	5.4	3.3	5.1
2	3.4	307	415	20	56	86	50	38	9.1	6.1	3.1	4.8
3	3.3	156	288	21	57	78	44	35	8.5	7.2	3.3	4.4
4	3.3	127	219	86	56	95	40	33	8.1	6.2	4.2	4.2
5	3.1	120	177	4,370	59	111	38	31	7.5	5.6	6.4	4.0
6	2.9	89	158	1,920	62	107	39	30	7.4	5.2	6.9	3.8
7	3.1	65	894	750	73	102	56	28	7.7	4.9	6.5	3.6
8	4.3	46	607	491	116	92	54	28	15	4.4	5.7	3.7
9	3.9	35	381	369	206	81	48	28	15	4.3	5.4	3.7
10	3.4	24	280	301	206	71	44	26	11	4.0	5.2	3.7
11	4.7	280	216	258	182	64	186	24	9.4	4.1	5.0	3.3
12	7.8	795	176	232	163	57	721	22	9.3	5.7	4.8	3.2
13	8.3	325	144	2,790	752	52	416	21	10	6.2	4.9	3.2
14	7.8	203	117	1,110	682	45	285	33	8.7	6.3	6.3	8.1
15	6.8	145	98	610	436	40	217	42	7.6	6.0	6.9	24
16	6.2	111	85	436	316	37	177	41	7.1	5.5	9.9	35
17	6.0	86	74	335	238	34	151	38	6.9	5.1	14	34
18	6.3	68	65	275	192	32	131	33	6.5	6.3	17	25
19	6.3	56	56	239	164	30	116	29	6.0	7.9	18	24
20	6.2	45	48	213	144	28	105	27	5.7	6.1	16	23
21	6.3	38	44	193	128	26	95	23	5.4	5.5	17	20
22	6.2	32	39	169	112	29	86	22	5.0	5.3	21	16
23	6.2	28	34	140	103	51	75	20	4.7	4.8	24	13
24	5.9	38	30	123	108	98	63	18	4.5	4.3	56	11
25	5.5	142	27	113	121	101	60	17	4.3	3.8	22	13
26	5.8	190	25	104	120	95	62	15	4.9	3.5	13	42
27	6.2	162	23	93	111	91	56	14	7.2	3.8	9.6	78
28	6.8	172	22	80	108	90	52	14	6.6	3.5	7.8	50
29	7.2	337	21	77	---	85	53	13	5.5	3.4	6.6	98
30	7.2	1,210	21	72	---	79	48	12	5.1	3.5	6.1	52
31	7.2	---	21	65	---	68	---	11	---	3.5	5.6	---
MEAN	5.52	183	178	519	183	69.5	121	26.1	7.65	5.08	11.0	20.6
MAX	8.3	1,210	894	4,370	752	111	721	42	15	7.9	56	98
MIN	2.9	24	21	20	56	26	38	11	4.3	3.4	3.1	3.2
IN.	0.04	1.24	1.25	3.62	1.16	0.49	0.82	0.18	0.05	0.04	0.08	0.14

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

MEAN	7.97	97.3	140	161	179	183	140	226	31.0	8.13	6.14	30.5
MAX	18.4	251	298	519	401	423	296	1,027	73.6	10.5	11.0	141
(WY)	(2004)	(2004)	(2002)	(2005)	(2001)	(2002)	(2002)	(2002)	(2001)	(2002)	(2005)	(2003)
MIN	4.60	7.48	8.49	17.2	35.2	43.4	18.0	8.17	7.65	5.08	3.36	2.31
(WY)	(2001)	(2003)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)	(2005)	(2005)	(2003)	(2000)

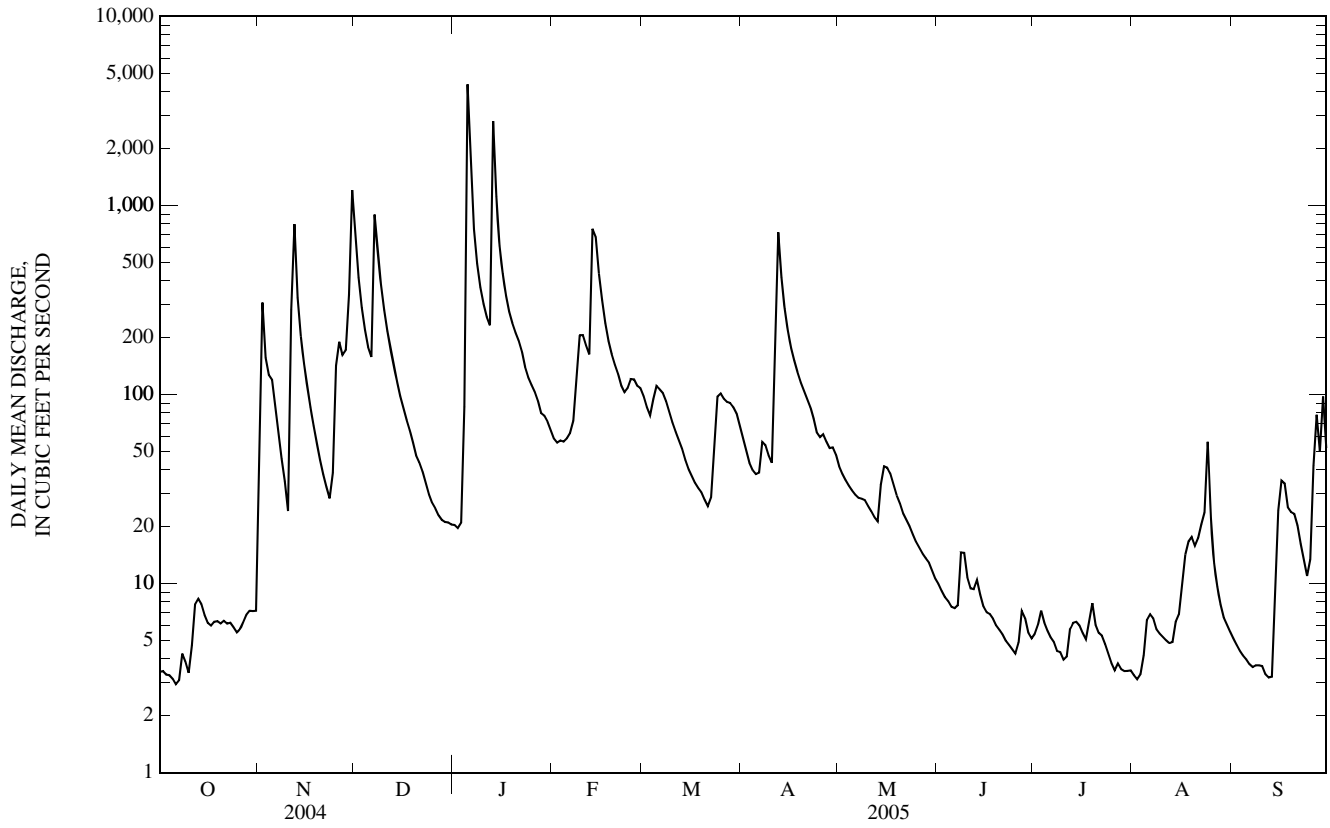
SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 2000 - 2005

ANNUAL MEAN	125	110	114
HIGHEST ANNUAL MEAN			214
LOWEST ANNUAL MEAN			54.5
HIGHEST DAILY MEAN	3,130	Mar 4	7,580
LOWEST DAILY MEAN	2.9	Oct 6	1.0
ANNUAL SEVEN-DAY MINIMUM	3.2	Oct 1	1.3
MAXIMUM PEAK FLOW	---		12,900
MAXIMUM PEAK STAGE	---		14.86
INSTANTANEOUS LOW FLOW	---		0.82
ANNUAL RUNOFF (INCHES)	10.31		9.40
10 PERCENT EXCEEDS	276		231
50 PERCENT EXCEEDS	38		22
90 PERCENT EXCEEDS	4.1		4.2



06928430 ROUBIDOUX CREEK BELOW FT. LEONARD WOOD, MO

LOCATION.--Lat 37°49'10", long 92°11'40", in SE ¼ SW ¼ SW ¼ sec.24, T.36 N., R.12 W., Pulaski County, Hydrologic Unit 10290201, on right bank 400 ft downstream from Interstate 44 bridge, on Superior Road, 0.9 mi south of Business 44, and 0.6 mi upstream from Roubidoux Spring.

DRAINAGE AREA.--287 mi².

PERIOD OF RECORD.--Feb. 23, 2000 to current year.

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.37	e5.5	822	2.5	6.5	12	6.7	9.2	1.0	5.2	1.1	2.1
2	e0.36	33	479	2.6	6.3	10	6.4	8.2	0.99	4.8	1.0	2.0
3	e0.35	14	285	4.3	6.1	9.4	6.2	7.3	1.1	4.4	1.0	2.2
4	e0.34	11	165	21	5.6	9.4	6.2	6.5	1.0	4.0	0.83	2.1
5	e0.33	13	95	5,250	5.2	9.1	6.0	6.3	0.95	3.5	0.67	1.9
6	0.34	9.2	56	5,400	5.7	8.4	6.2	5.9	1.1	2.9	0.78	1.9
7	0.44	6.9	288	1,140	6.6	8.5	6.4	5.6	2.7	2.6	1.2	1.9
8	e0.40	5.5	867	589	8.7	8.2	5.9	5.2	3.2	2.2	1.3	1.8
9	e0.39	3.7	435	388	9.7	8.0	5.8	4.8	32	2.0	1.2	1.7
10	e0.38	3.2	268	279	8.4	7.9	5.0	5.1	243	2.0	1.1	1.8
11	e0.48	10	165	205	40	7.6	5.7	5.0	197	1.9	1.2	2.0
12	e0.71	192	95	157	47	7.1	213	4.6	51	3.1	1.4	1.9
13	e0.73	382	51	2,340	276	7.1	432	3.8	39	2.9	2.3	2.3
14	e0.68	157	26	2,430	863	6.8	256	4.9	28	2.3	4.5	8.4
15	e0.67	59	14	e1,020	470	6.5	155	4.6	21	1.8	7.1	76
16	e0.64	21	9.2	e540	311	6.1	90	4.1	17	1.6	17	53
17	e0.63	10	8.5	e267	208	6.2	48	3.7	14	1.3	10	17
18	e0.64	6.9	7.7	220	142	6.0	24	3.1	12	1.2	7.2	41
19	e0.65	5.3	7.2	170	98	6.0	11	2.9	10	1.1	5.7	25
20	e0.64	5.4	6.2	130	67	6.0	6.8	2.7	8.8	1.0	4.8	16
21	e0.65	4.7	6.0	98	46	6.0	6.3	2.4	7.7	1.0	3.8	11
22	e0.64	4.9	5.6	71	29	6.3	7.8	2.7	7.1	0.87	79	9.2
23	e0.65	4.1	7.2	45	20	6.5	7.0	2.4	6.2	0.87	54	7.7
24	e0.63	14	4.5	28	14	6.3	6.4	2.0	5.5	0.88	17	6.6
25	e0.60	20	3.9	18	11	6.9	5.7	1.9	5.6	0.97	12	9.8
26	e0.63	19	3.8	12	11	6.8	6.3	1.8	5.5	1.00	9.6	13
27	e0.65	21	4.3	7.2	10	6.9	5.8	1.7	5.4	1.5	9.2	9.1
28	e0.68	18	3.1	7.8	14	6.7	6.8	1.6	6.5	1.5	7.3	7.1
29	e0.70	41	3.0	8.4	---	6.5	8.1	1.5	6.1	1.5	5.9	6.8
30	e0.69	666	2.7	7.6	---	6.2	10	1.5	5.3	1.3	4.9	5.7
31	e0.68	---	2.5	6.9	---	6.2	---	1.1	---	1.2	3.9	---
MEAN	0.56	58.9	135	673	98.1	7.34	45.8	4.00	24.9	2.08	8.97	11.6
MAX	0.73	666	867	5,400	863	12	432	9.2	243	5.2	79	76
MIN	0.33	3.2	2.5	2.5	5.2	6.0	5.0	1.1	0.95	0.87	0.67	1.7
IN.	0.00	0.23	0.54	2.70	0.36	0.03	0.18	0.02	0.10	0.01	0.04	0.05

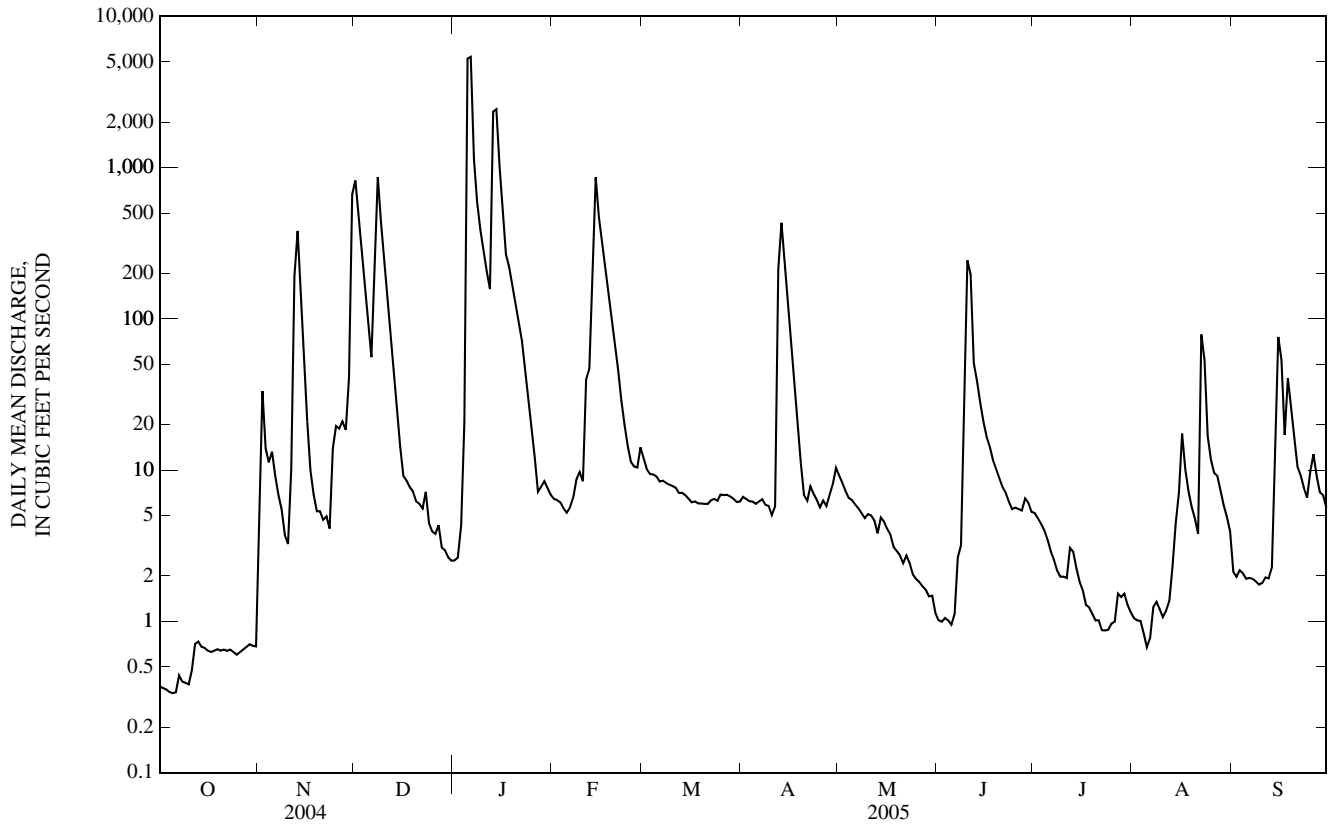
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

MEAN	1.71	46.1	92.3	170	154	143	91.9	226	21.7	2.15	3.30	11.7
MAX	4.60	168	260	673	350	412	245	1,204	94.5	8.57	8.97	56.8
(WY)	(2004)	(2004)	(2002)	(2005)	(2001)	(2002)	(2004)	(2002)	(2001)	(2004)	(2005)	(2003)
MIN	0.16	0.46	0.52	0.61	15.6	2.55	1.76	0.87	0.70	0.16	0.24	0.19
(WY)	(2003)	(2003)	(2003)	(2001)	(2003)	(2000)	(2000)	(2000)	(2000)	(2003)	(2000)	(2000)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 2000 - 2005
ANNUAL MEAN	90.3	89.7	88.4
HIGHEST ANNUAL MEAN			206
LOWEST ANNUAL MEAN			13.3
HIGHEST DAILY MEAN	3,810	5,400	7,240
LOWEST DAILY MEAN	0.32	0.33	0.01
ANNUAL SEVEN-DAY MINIMUM	0.34	0.36	0.05
MAXIMUM PEAK FLOW	---	9,700	14,000
MAXIMUM PEAK STAGE	---	12.42	14.13
INSTANTANEOUS LOW FLOW	---	0.29	0.01
ANNUAL RUNOFF (INCHES)	4.29	4.25	4.19
10 PERCENT EXCEEDS	211	160	143
50 PERCENT EXCEEDS	5.9	6.3	2.3
90 PERCENT EXCEEDS	0.64	0.88	0.32

e Estimated

06928430 ROUBIDOUX CREEK BELOW FT. LEONARD WOOD, MO—Continued



06928440 ROUBIDOUX SPRING AT WAYNESVILLE, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°49'30", long 92°11'53", in SW 1/4 NW 1/4 NE 1/4 sec.25, T.36 N., R.12 W., Pulaski County, Hydrologic Unit 10290201, from I-44 Exit 159 at Waynesville to Business 44, approximately 1.5 mi to Superior Road, south on Superior Road 0.3 mi to spring.

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, μS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 08...	1015	Environmental	89	7.4	74	7.2	388	15.1	210	42.9	24.9	1.66
JAN 03...	1040	Environmental	47	9.3	86	7.0	334	10.8	--	--	--	--
MAR 02...	0950	Environmental	139	10.1	91	7.4	312	9.9	--	--	--	--
MAY 19...	1200	Environmental	65	7.4	74	7.6	368	13.9	200	38.8	24.6	1.40
JUL 13...	1130	Environmental	69	4.2	42	7.2	385	14.3	--	--	--	--
SEP 01...	1010	Environmental	14	5.8	59	7.0	423	14.5	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC, wat fltrd, mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)
NOV 08...	2.32	198	203	247	<1	3.37	E.1n	4.8	220	<10	E.07n	<.04	.48
JAN 03...	--	--	--	--	--	--	--	--	--	<10	E.09n	<.04	.42
MAR 02...	--	--	--	--	--	--	--	--	--	<10	E.07n	<.04	.25
MAY 19...	2.37	186	187	228	<1	3.93	<.1	6.3	216	<10	E.07n	<.04	.22
JUL 13...	--	--	--	--	--	--	--	--	--	<10	<.10	<.04	.45
SEP 01...	--	--	--	--	--	--	--	--	--	<10	<.10	<.04	.54

Date	Nitrite, water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC, col/100 mL (31625)	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 08...	<.008	<.02	E.02n	<.04	25k	18k	<2	36	.3	<.04	<.04	E.4n	<6
JAN 03...	<.008	<.02	<.04	<.04	2k	6k	--	--	--	--	--	--	--
MAR 02...	<.008	<.02	<.04	<.04	1k	3k	--	--	--	--	--	--	--
MAY 19...	<.008	<.02	<.04	<.04	10k	8k	<2	21	<.2	<.04	E.02n	.5	<6
JUL 13...	<.008	<.02	<.04	E.03n	32	20	--	--	--	--	--	--	--
SEP 01...	<.008	<.02	<.04	<.04	31	68k	--	--	--	--	--	--	--

06928440 ROUBIDOUX SPRING AT WAYNESVILLE, 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 08...	E.06n	E.05n	<.6	E.01n	.4	1.9	<2
JAN 03...	--	--	--	--	--	--	--
MAR 02...	--	--	--	--	--	--	--
MAY 19...	E.05n	.10	<.6	<.01	<.4	.7	E1n
JUL 13...	--	--	--	--	--	--	--
SEP 01...	--	--	--	--	--	--	--

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

06930000 BIG PINEY RIVER NEAR BIG PINEY, MO

LOCATION.--Lat 37°39'56", long 92°03'00", in NE ¼ SE ¼ sec. 8, T.34 N., R.10 W., Pulaski County, Hydrologic Unit 10290202, on downstream side of left pier of Ross bridge, 3.0 mi east of Big Piney, 14.8 mi upstream from Spring Creek, and at river mile 22.

DRAINAGE AREA.--560 mi².

PERIOD OF RECORD.--October 1921 to Sept. 30, 1982, April 4 1988 to Sept. 30, 1996, Nov. 23, 1999 to current year.

REVISED RECORDS.--WSP 826: 1935. WSP 1176: 1943, 1945. WSP 1340: 1922-23, 1927-28(M), 1933(M), 1935(M).

GAGE.--Water-stage recorder. Datum of gage is 800.99 ft above National Geodetic Vertical Datum of 1929. Prior to July 12, 1961, nonrecording gage at same site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, 24.54 ft, Dec. 4, 1982, from floodmark, present datum, discharge, 81,200 ft³/s, by indirect measurement of peak flow.

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	115	265	e2,500	228	393	450	362	273	158	129	104	113
2	114	1,630	e1,680	225	379	427	340	260	154	132	103	112
3	112	1,090	e1,200	227	370	407	324	249	152	137	102	110
4	112	684	e923	255	364	409	309	242	149	136	107	106
5	112	627	e762	3,690	357	412	298	235	146	127	107	105
6	111	524	e700	7,420	356	402	298	229	143	121	121	103
7	113	432	e1,000	3,250	362	394	304	225	145	117	110	101
8	124	367	2,120	1,970	388	388	308	221	151	116	106	101
9	124	321	1,390	1,500	489	373	315	217	155	113	105	101
10	126	287	1,070	1,230	556	357	307	213	150	112	104	99
11	141	374	863	1,050	553	345	321	208	150	113	104	98
12	154	1,110	717	931	529	335	1,210	202	162	129	104	97
13	154	1,130	620	4,370	741	325	1,670	196	154	127	108	97
14	155	764	543	6,530	1,750	312	1,080	264	144	131	113	134
15	156	586	487	2,510	1,460	299	826	667	148	129	115	159
16	152	485	448	1,720	1,130	288	673	440	155	123	122	176
17	148	419	419	1,340	911	281	576	341	148	118	121	169
18	146	377	391	1,110	770	275	512	292	140	117	127	173
19	144	342	363	964	681	271	467	261	135	122	123	168
20	141	317	342	875	619	264	436	241	132	121	117	158
21	140	297	325	814	579	258	411	225	125	146	115	149
22	138	279	310	733	538	262	390	213	123	133	123	147
23	139	264	296	654	508	277	368	204	122	124	116	139
24	138	284	281	588	494	302	344	197	122	118	167	133
25	138	377	267	552	495	338	327	189	119	113	215	180
26	147	667	260	526	486	342	322	183	119	110	172	286
27	155	602	252	495	469	342	312	178	124	114	150	260
28	178	526	244	461	463	359	302	174	128	112	134	248
29	193	526	238	443	---	420	294	171	129	109	126	229
30	195	e1,500	234	430	---	413	286	165	123	109	121	206
31	210	---	231	415	---	390	---	161	---	106	117	---
MEAN	143	582	693	1,532	614	346	476	243	140	121	122	149
MAX	210	1,630	2,500	7,420	1,750	450	1,670	667	162	146	215	286
MIN	111	264	231	225	356	258	286	161	119	106	102	97
IN.	0.29	1.16	1.43	3.16	1.14	0.71	0.95	0.50	0.28	0.25	0.25	0.30

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

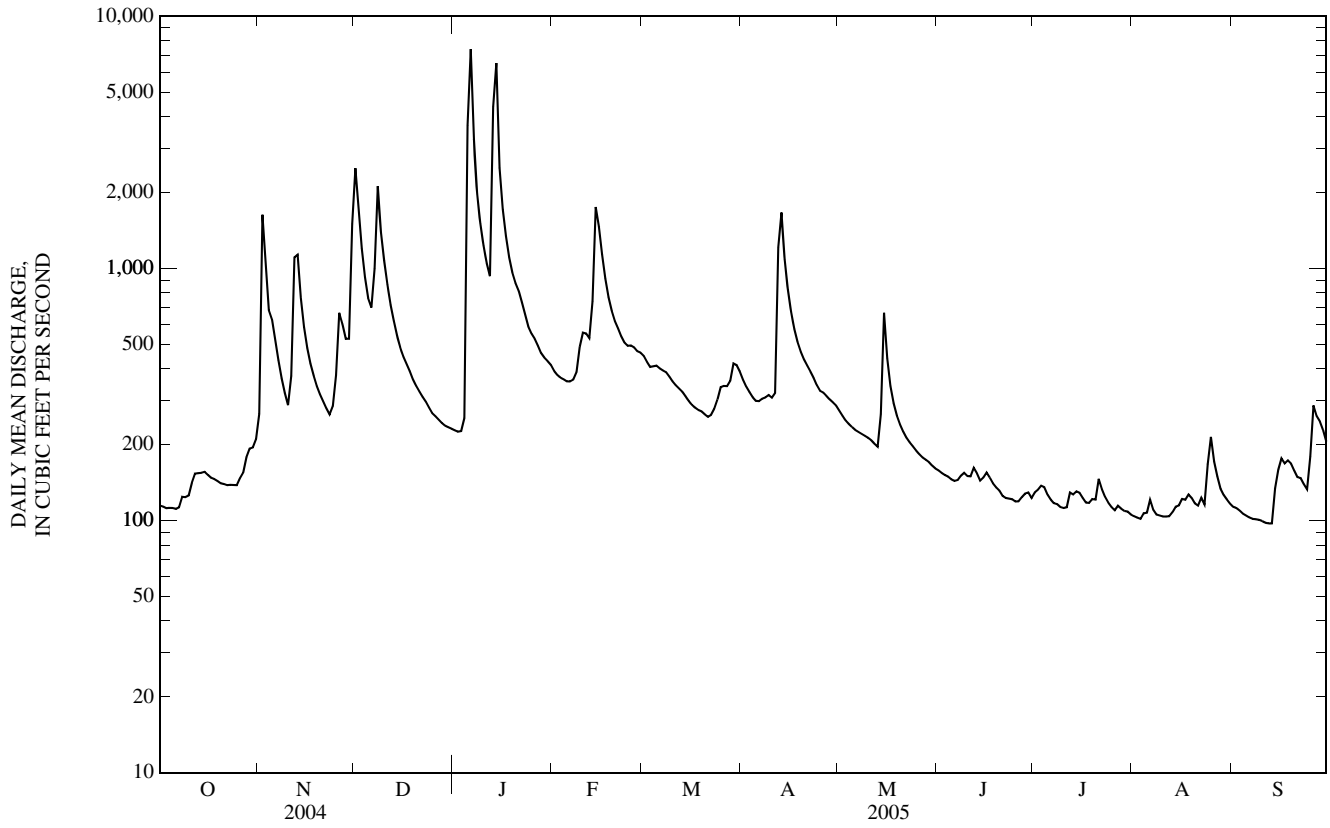
MEAN	262	482	456	561	628	817	974	922	586	283	234	257
MAX	1,261	2,127	1,940	2,554	2,237	2,565	3,637	3,324	4,490	1,969	1,947	1,959
(WY)	(1950)	(1952)	(1943)	(1950)	(1982)	(1945)	(1927)	(1990)	(1983)	(1951)	(1927)	(1993)
MIN	82.3	106	98.5	98.5	127	154	168	132	111	89.3	80.7	72.9
(WY)	(1957)	(1965)	(1956)	(1956)	(1934)	(1981)	(2000)	(2000)	(1934)	(1934)	(2001)	(1954)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	FOR PERIOD OF RECORD
ANNUAL MEAN	486	430	539
HIGHEST ANNUAL MEAN			1,179
LOWEST ANNUAL MEAN			149
HIGHEST DAILY MEAN	11,500	7,420	22,900
LOWEST DAILY MEAN	110	97	60
ANNUAL SEVEN-DAY MINIMUM	111	99	63
MAXIMUM PEAK FLOW	---	9,260	38,300
MAXIMUM PEAK STAGE	---	12.37	20.70
INSTANTANEOUS LOW FLOW	---	95	58
ANNUAL RUNOFF (INCHES)	11.81	10.42	13.08
10 PERCENT EXCEEDS	912	868	1,050
50 PERCENT EXCEEDS	331	255	257
90 PERCENT EXCEEDS	128	113	122

e Estimated

06930000 BIG PINEY RIVER NEAR BIG PINEY, MO—Continued



06930060 BIG PINEY RIVER BELOW FT. LEONARD WOOD, MO

LOCATION.--Lat 37°45'37", long 92°03'29", in SE 1/4 SW 1/4 NW 1/4 sec.17, T.35 N. R.10 W., Pulaski County, Hydrologic Unit 10290202, on right downstream wingwall of bridge on East Gate Ft. Leonard Wood road, 1.8 mi west of Highway J, 8.5 mi south of Interstate 44.

DRAINAGE AREA.--593 mi².

PERIOD OF RECORD.--Dec. 3, 1999 to current year.

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

REMARKS.--Records good except for estimated daily discharges, 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	148	296	2,890	282	483	557	450	348	204	152	135	141
2	149	1,240	2,040	276	465	531	422	332	197	156	131	138
3	148	1,370	1,360	283	453	507	402	319	195	161	130	138
4	148	814	1,060	313	443	505	385	308	194	164	128	135
5	149	693	893	3,360	437	503	372	300	190	164	143	134
6	147	608	786	10,000	434	498	369	293	188	156	144	131
7	146	507	1,020	e3,080	443	490	375	288	184	151	155	130
8	161	431	2,230	e2,060	465	480	e378	285	192	148	137	130
9	160	374	1,610	e1,650	551	466	e384	282	192	147	133	127
10	158	336	1,230	1,410	655	446	e374	274	192	146	130	126
11	171	366	1,010	1,230	666	433	387	269	190	147	130	125
12	190	898	862	1,090	643	422	826	260	194	164	130	123
13	185	1,280	754	3,550	879	410	2,110	256	197	163	133	126
14	186	896	666	8,390	1,900	393	1,270	277	184	161	140	162
15	187	686	601	3,300	1,840	376	966	632	180	160	154	227
16	183	569	553	2,190	1,370	365	793	541	188	157	159	220
17	180	489	518	1,630	1,110	357	680	416	183	150	148	208
18	177	438	489	1,350	946	349	603	356	176	146	154	214
19	175	400	454	1,170	837	343	549	322	170	152	150	222
20	173	365	429	1,060	764	334	519	299	167	147	144	196
21	171	345	404	975	713	326	518	283	159	162	142	184
22	170	325	386	894	664	330	488	270	159	165	153	177
23	170	307	368	795	627	345	455	261	152	154	153	171
24	169	335	349	718	607	363	426	252	153	147	156	162
25	169	419	331	673	602	408	405	243	150	141	225	198
26	188	679	320	643	599	424	401	237	150	138	209	302
27	193	717	311	602	583	428	386	229	150	138	182	308
28	189	632	301	562	574	433	379	223	156	141	167	283
29	231	618	294	540	---	496	369	220	156	137	153	279
30	214	1,260	288	519	---	506	361	214	152	136	148	245
31	235	---	284	506	---	479	---	211	---	134	144	---
MEAN	175	623	809	1,777	741	429	560	300	176	151	150	182
MAX	235	1,370	2,890	10,000	1,900	557	2,110	632	204	165	225	308
MIN	146	296	284	276	434	326	361	211	150	134	128	123
IN.	0.34	1.17	1.57	3.46	1.30	0.83	1.05	0.58	0.33	0.29	0.29	0.34

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

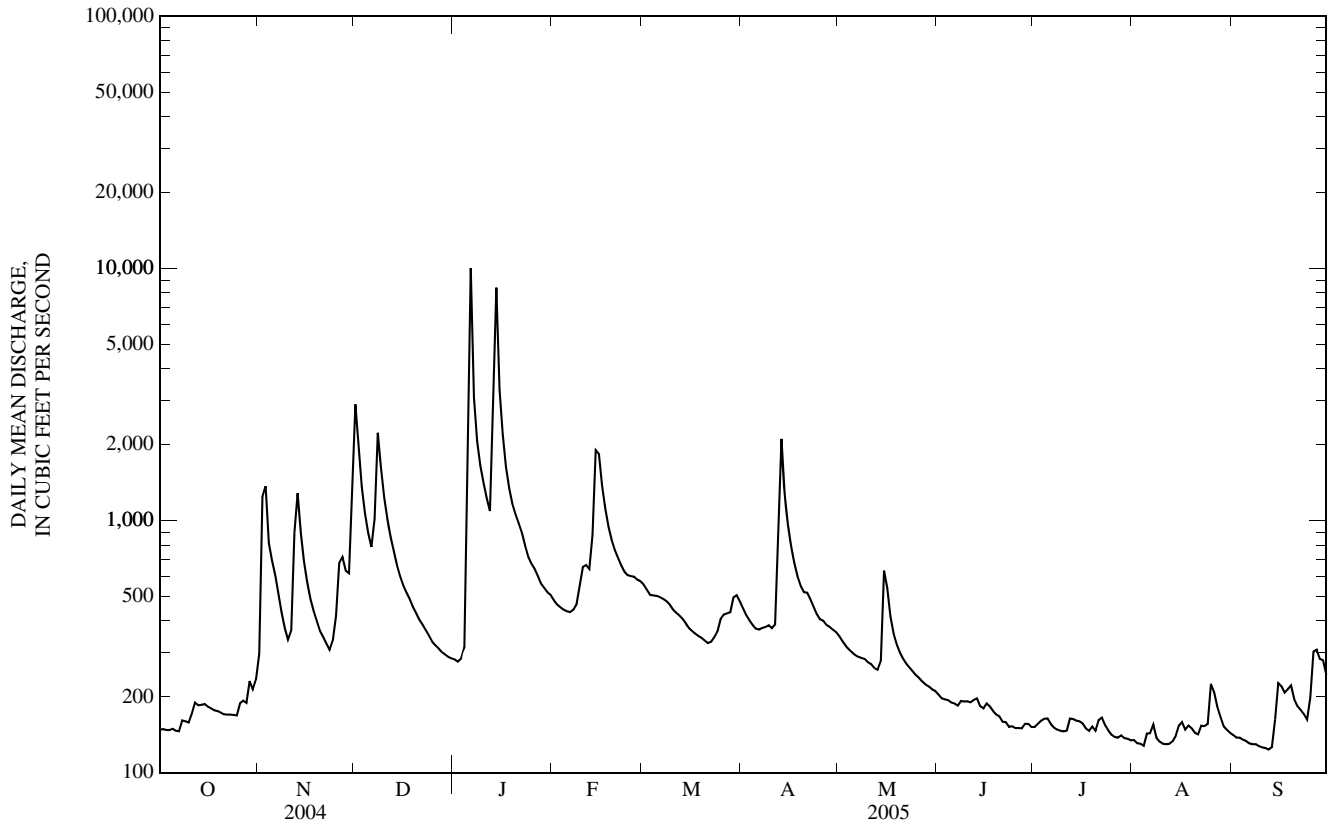
MEAN	167	475	556	601	778	659	631	960	264	187	165	233
MAX	227	1,202	809	1,777	1,798	1,117	1,221	3,628	377	264	224	615
(WY)	(2004)	(2004)	(2005)	(2005)	(2001)	(2004)	(2004)	(2002)	(2002)	(2002)	(2002)	(2003)
MIN	129	158	164	195	269	305	200	160	168	147	121	124
(WY)	(2001)	(2001)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2001)	(2000)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 2000 - 2005
ANNUAL MEAN	580	506	518
HIGHEST ANNUAL MEAN			758
LOWEST ANNUAL MEAN			329
HIGHEST DAILY MEAN	10,900	Apr 25	10,000
LOWEST DAILY MEAN	145	Sep 22-24,26,27	123
ANNUAL SEVEN-DAY MINIMUM	145	Sep 21	127
MAXIMUM PEAK FLOW	---		11,500
MAXIMUM PEAK STAGE	---		11.51
INSTANTANEOUS LOW FLOW	---		120
ANNUAL RUNOFF (INCHES)	13.32		11.58
10 PERCENT EXCEEDS	1,070		970
50 PERCENT EXCEEDS	396		307
90 PERCENT EXCEEDS	167		145

e Estimated

06930060 BIG PINEY RIVER BELOW FT. LEONARD WOOD, MO—Continued



06930450 BIG PINEY RIVER AT DEVIL'S ELBOW, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°50'53", long 92°03'44, in NW ¼ SE ¼ NE ¼ sec.18, T.36 N., R.10 W., Pulaski County, Hydrologic Unit 10290202, at bridge on County Highway V at Devil's Elbow.

DRAINAGE AREA.--746 mi².

PERIOD OF RECORD.--July 1977 to October 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, µS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 08...	1330	Environmental	427	10.2	97	7.5	329	12.5	180	37.0	20.1	2.04
JAN 20...	1030	Environmental	713	11.0	92	7.7	239	6.4	--	--	--	--
MAR 02...	1155	Environmental	267	13.7	118	7.8	292	7.8	--	--	--	--
MAY 23...	1025	Environmental	267	8.3	98	7.4	322	21.5	--	--	--	--
JUL 07...	1055	Environmental	158	11.1	137	7.7	348	24.7	200	37.1	25.2	1.22
SEP 01...	0850	Environmental	158	6.4	78	7.6	350	23.6	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC, wat fltrd, mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)
NOV 08...	3.39	161	162	197	<1	5.50	E.1n	6.2	194	<10	.15	<.04	.63
JAN 20...	--	--	--	--	--	--	--	--	--	<10	.15	<.04	.76
MAR 02...	--	--	--	--	--	--	--	--	--	<10	.11	<.04	.30
MAY 23...	--	--	--	--	--	--	--	--	--	<10	.20	<.04	.17
JUL 07...	3.17	171	168	209	<1	4.66	E.1n	4.5	192	<10	.16	<.04	.18
SEP 01...	--	--	--	--	--	--	--	--	--	<10	.16	<.04	.20

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, 0.7µ MF, 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 08...	E.005n	E.01n	E.03n	E.03n	25k	46	Mn	46	.4	<.04	<.04	.5	6
JAN 20...	<.008	E.01n	<.04	E.03n	25	71k	--	--	--	--	--	--	--
MAR 02...	<.008	<.02	<.04	<.04	1k	2k	--	--	--	--	--	--	--
MAY 23...	<.008	<.02	<.04	E.03n	28	34	--	--	--	--	--	--	--
JUL 07...	<.008	<.02	E.03n	E.03n	78	13k	2	63	.5	<.04	<.04	.4	E5n
SEP 01...	<.008	.02	E.03n	.05	25	23	--	--	--	--	--	--	--

06930450 BIG PINEY RIVER AT DEVIL'S ELBOW, 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 08...	<.08	.17	7.3	E.01n	E.3n	.6	E2n
JAN 20...	--	--	--	--	--	--	--
MAR 02...	--	--	--	--	--	--	--
MAY 23...	--	--	--	--	--	--	--
JUL 07...	E.07n	.14	10.5	<.01	<.4	1.8	<2
SEP 01...	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than.

E -- Estimated.

M-- Presence verified but not quantified.

Value qualifier codes used in this table:

k -- Counts outside acceptable range

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

06930800 GASCONADE RIVER ABOVE JEROME, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°55'12", long 91°58'33", in SW ¼ NW ¼ NE ¼ sec.24, T.37 N., R.10 W., Phelps County, Hydrologic Unit 10290203, at bridge on State Highway D at Jerome, 150 ft upstream from Little Piney Creek, and 0.7 mi upstream from gaging station.

DRAINAGE AREA.--2,570 mi².

PERIOD OF RECORD.--January 1978 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1978 to September 1981.

WATER TEMPERATURE: March 1978 to September 1981.

REMARKS.--National Stream-Quality Accounting Network station January 1978 to September 1993. Ambient Water-Quality Monitoring Network station November 1993 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 588 microsiemens per centimeter, Sept. 23, 1981; minimum, 133 microsiemens per centimeter, Sept. 1, 1981.

WATER TEMPERATURE: Maximum daily, 34.0 °C, Aug. 11 and 17, 1980; minimum, 0.0 °C on many days during winter period.

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 ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 13...	1125	Environmental	467	7.9	81	7.6	356	15.1	--	--	--	--
NOV 18...	1130	Environmental	1,820	8.9	87	7.5	324	13.1	170	34.2	20.1	2.60
NOV 18...	1230	Blank	--	--	--	--	--	--	--	<.02	<.008	<.16
DEC 10...	0930	Environmental	7,740	10.6	96	8.0	262	9.5	--	--	--	--
JAN 19...	1355	Environmental	5,130	13.6	109	7.6	251	5.4	140	28.7	16.5	1.90
FEB 01...	0930	Environmental	1,710	12.0	96	7.4	292	5.4	--	--	--	--
MAR 02...	1330	Environmental	1,990	13.6	118	8.2	317	8.2	--	--	--	--
APR 05...	1040	Environmental	1,320	9.1	95	8.2	344	15.4	--	--	--	--
MAY 23...	0905	Environmental	763	5.4	63	7.5	344	21.9	180	34.1	23.6	1.81
JUN 09...	0855	Environmental	580	5.5	68	7.5	331	23.7	--	--	--	--
JUL 07...	0900	Environmental	484	6.5	80	7.8	357	24.5	200	38.5	26.1	1.47
AUG 01...	0920	Environmental	344	5.9	73	8.0	334	25.0	--	--	--	--
AUG 11...	1025	Environmental	343	6.0	75	7.7	358	25.3	--	--	--	--
SEP 01...	1200	Environmental	473	7.2	89	7.8	343	24.5	--	--	--	--

06930800 GASCONADE RIVER ABOVE JEROME, MO—Continued

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

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfixed end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfixed, field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfixed, field, mg/L (00450)	Carbonate, wat unfixed, field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
Date	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)
OCT 13...	--	--	--	--	--	--	--	--	--	<10	.13	<.04	.22
NOV 18...	3.25	150	151	184	<1	6.67	E.1n	6.4	184d	10	.25	<.04	.91
NOV 18...	<.20	--	--	--	--	<.20	<.1	E.1n	<13d	<10	<.10	.18	<.06
DEC 10...	--	--	--	--	--	--	--	--	--	39	.46	<.04	.96
JAN 19...	2.58	116	117	142	<1	5.12	E.1n	6.1	142	<10	.18	<.04	1.07
FEB 01...	--	--	--	--	--	--	--	--	--	<10	.12	<.04	.93
MAR 02...	--	--	--	--	--	--	--	--	--	<10	.12	<.04	.37
APR 05...	--	--	--	--	--	--	--	--	--	<10	.17	<.04	.10
MAY 23...	3.23	165	168	205	<1	5.30	E.1n	5.3	191	<10	.20	<.04	.11
JUN 09...	--	--	--	--	--	--	--	--	--	<10	.20	E.02n	.26
JUL 07...	3.22	180	180	219	<1	5.23	E.1n	4.8	181	<10	.19	<.04	.09
AUG 01...	--	--	--	--	--	--	--	--	--	<10	.18	<.04	E.05n
AUG 11...	--	--	--	--	--	--	--	--	--	<10	.20	<.04	.07
SEP 01...	--	--	--	--	--	--	--	--	--	<10	.23	<.04	.07
OCT 13...	<.008	E.01n	<.04	E.04n	4k	17k	--	--	--	--	--	--	--
NOV 18...	<.008	<.02	E.04n	.05	49	35	E1n	119	.3	<.04	E.03n	1.0	12
NOV 18...	<.008	<.02	<.04	<.04	--	--	<2	<2	<.2	<.04	<.04	<.4	<6
DEC 10...	E.004n	.05	.06	.10	>800a	>600a	--	--	--	--	--	--	--
JAN 19...	<.008	E.01n	E.03n	E.04n	170	280	2	226	.2	<.04	<.04	.5	E5n
FEB 01...	E.004n	E.01n	E.03n	E.03n	10k	24	--	--	--	--	--	--	--
MAR 02...	<.008	<.02	<.04	<.04	1k	1k	--	--	--	--	--	--	--
APR 05...	<.008	<.02	<.04	<.04	9k	7k	--	--	--	--	--	--	--
MAY 23...	<.008	<.02	<.04	<.04	14k	15k	E1n	35	.4	<.04	<.04	1.2	9
JUN 09...	E.004n	E.01n	E.02n	E.03n	19k	25	--	--	--	--	--	--	--
JUL 07...	<.008	<.02	<.04	<.04	180	20	2	66	.6	<.04	<.04	.5	<6
AUG 01...	<.008	<.02	E.02n	E.02n	11k	10k	--	--	--	--	--	--	--
AUG 11...	<.008	<.02	<.04	E.02n	13k	3k	--	--	--	--	--	--	--
SEP 01...	<.008	<.02	E.04n	<.04	5k	13k	--	--	--	--	--	--	--

06930800 GASCONADE RIVER ABOVE JEROME, 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)
OCT 13...	--	--	--	--	--	--	--
NOV 18...	.09	1.07	6.2	E.01n	E.2n	1.5	2
18...	<.08	.07	<.6	E.01n	<.4	<.6	<2
DEC 10...	--	--	--	--	--	--	--
JAN 19...	<.08	.40	5.0	<.01	E.2n	.9	E2n
FEB 01...	--	--	--	--	--	--	--
MAR 02...	--	--	--	--	--	--	--
APR 05...	--	--	--	--	--	--	--
MAY 23...	<.08	.11	11.4	<.01	E.3n	1.4	E1n
JUN 09...	--	--	--	--	--	--	--
JUL 07...	E.05n	.19	9.8	<.01	<.4	E.5n	<2
AUG 01...	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--
SEP 01...	--	--	--	--	--	--	--

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

06932000 LITTLE PINEY CREEK AT NEWBURG, MO

LOCATION.--Lat 37°54'34", long 91°54'12", in NW ¼ SW ¼ SE ¼ sec.22, T.37 N., R.9 W., Phelps County, Hydrologic Unit 10290203, on downstream side of bridge pier on State Highway P and T at Newburg, and 2 mi upstream from Mill Creek.

DRAINAGE AREA.--200 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 693.40 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1951, all gages at datum 3.0 ft higher. Prior to Nov. 21, 1963, nonrecording gage at site 100 ft downstream; Nov. 21, 1963 to May 9, 1966, nonrecording gage at present site.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, 16.7 ft, Aug. 20, 1915, from floodmark, present datum; discharge, 30,000 ft³/s, from rating curve based on discharge measurements made in 1935 and extended above 25,000 ft³/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	51	318	408	96	141	156	131	173	63	60	45	53
2	51	268	326	94	138	147	124	153	63	58	44	52
3	50	183	275	113	136	144	119	140	62	57	44	51
4	50	180	244	317	137	147	117	129	61	57	44	50
5	49	146	219	5,210	134	140	115	121	60	56	46	50
6	50	128	209	1,730	135	135	115	114	60	55	61	50
7	52	112	757	796	170	137	115	109	61	54	66	49
8	59	96	444	595	197	132	110	105	63	54	52	49
9	54	87	354	493	192	129	107	103	61	54	49	49
10	52	81	293	426	179	127	104	101	65	53	47	49
11	57	186	248	391	167	126	147	98	165	54	47	48
12	66	238	219	375	161	125	192	95	127	89	45	48
13	62	187	187	3,250	712	121	176	91	96	68	49	50
14	58	157	165	1,050	461	116	161	108	82	60	50	95
15	56	138	152	653	352	113	148	100	74	57	126	127
16	54	127	144	523	283	110	138	94	70	55	258	82
17	53	115	136	443	241	110	132	93	70	54	88	60
18	54	111	131	390	215	109	127	91	67	52	79	118
19	54	107	122	360	201	108	123	90	65	51	64	100
20	53	100	117	321	195	105	226	88	63	49	59	88
21	52	93	115	294	183	104	371	85	62	48	58	71
22	52	105	107	264	169	118	319	108	62	48	74	64
23	53	103	100	234	168	127	230	87	61	47	67	60
24	52	406	96	223	168	131	181	78	60	47	60	58
25	52	393	96	215	170	180	163	74	60	46	63	94
26	73	274	97	202	169	159	181	71	59	46	93	144
27	81	312	96	184	166	157	159	69	62	49	72	129
28	83	267	95	171	168	158	183	69	68	47	62	126
29	76	449	97	170	---	147	193	70	61	46	58	145
30	73	490	96	159	---	145	203	66	61	46	56	112
31	67	---	95	149	---	139	---	65	---	45	55	---
MEAN	58.0	199	201	642	211	132	164	98.0	70.5	53.6	67.1	77.4
MAX	83	490	757	5,210	712	180	371	173	165	89	258	145
MIN	49	81	95	94	134	104	104	65	59	45	44	48
IN.	0.33	1.11	1.16	3.70	1.10	0.76	0.91	0.57	0.39	0.31	0.39	0.43

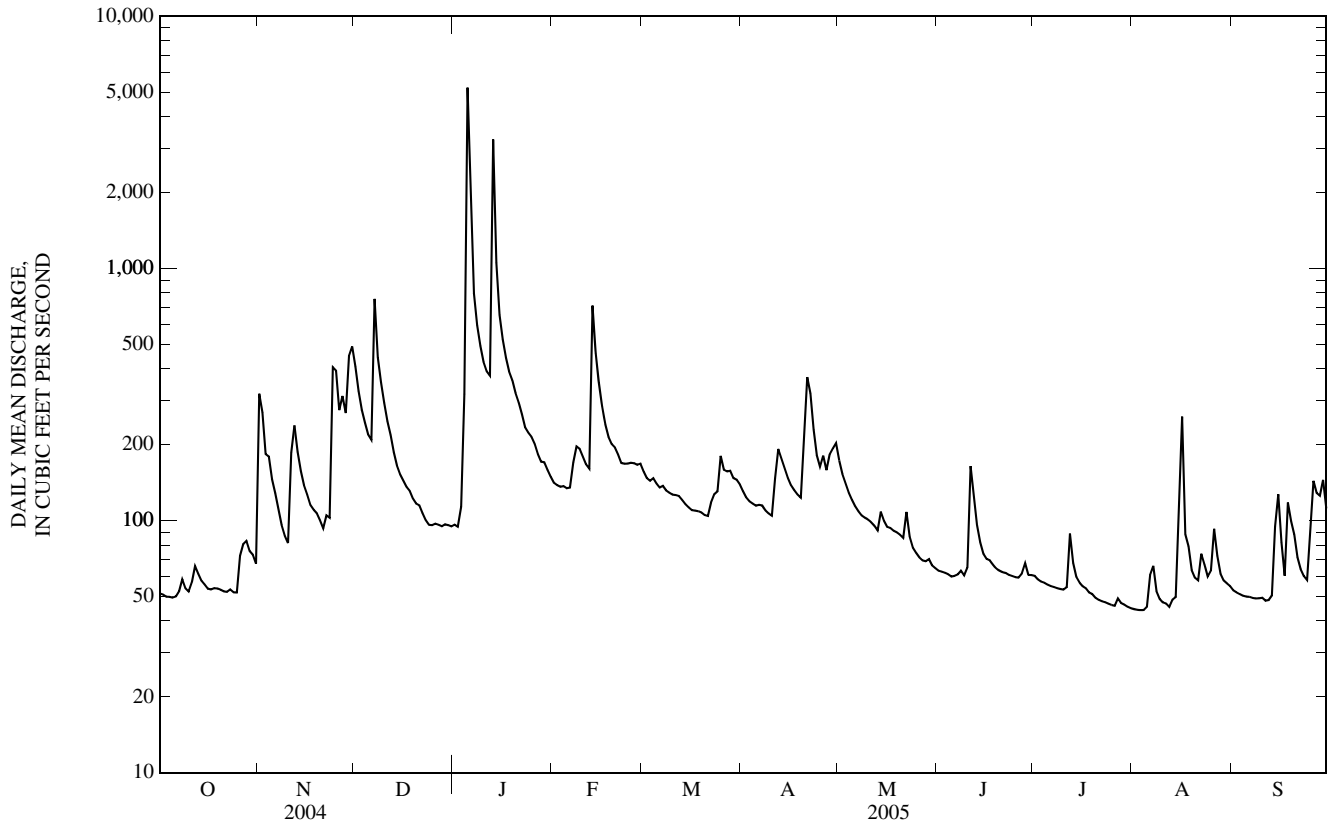
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2005, BY WATER YEAR (WY)

	MEAN	1950	1994	1983	1950	1985	1945	1945	1945	1935	1998	1946	1993
MEAN	95.7	139	151	157	177	235	267	273	197	106	82.0	86.4	
MAX	913	694	1,300	770	678	822	1,335	1,346	1,545	684	493	706	
(WY)	(1950)	(1994)	(1983)	(1950)	(1985)	(1945)	(1945)	(2002)	(1935)	(1998)	(1946)	(1993)	
MIN	26.9	33.1	35.7	34.9	35.6	42.8	42.0	43.7	32.2	27.6	27.6	28.1	
(WY)	(1957)	(1957)	(1956)	(1956)	(1934)	(1956)	(1956)	(1932)	(1934)	(1934)	(1936)	(1954)	

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1929 - 2005
ANNUAL MEAN	167	164	163
HIGHEST ANNUAL MEAN			391
LOWEST ANNUAL MEAN			47.0
HIGHEST DAILY MEAN	1,690	Mar 5	19,600
LOWEST DAILY MEAN	49	Oct 5	24
ANNUAL SEVEN-DAY MINIMUM	50	Sep 30	24
MAXIMUM PEAK FLOW	---		8,040
MAXIMUM PEAK STAGE	---		11.02
INSTANTANEOUS LOW FLOW	---		43
ANNUAL RUNOFF (INCHES)	11.38		11.16
10 PERCENT EXCEEDS	320		278
50 PERCENT EXCEEDS	121		105
90 PERCENT EXCEEDS	56		50

06932000 LITTLE PINEY CREEK AT NEWBURG, MO—Continued



06933500 GASCONADE RIVER AT JEROME, MO

LOCATION.--Lat 37°55'48", long 91°58'38", in NE ¼ NE ¼ SE ¼ sec.13, T.37 N., R.10 W., Phelps County, Hydrologic Unit 10290203, on left bank at Jerome, 0.5 mi downstream from Little Piney Creek, and at mile 107.

DRAINAGE AREA.--2,840 mi².

PERIOD OF RECORD.--April 1903 to July 1906, January 1923 to current year. April 1903 to July 1906 published as "at Arlington". October to December 1922 monthly discharge only, published in WSP 1310. Gage-height records collected intermittently in the vicinity 1885-1926 and at same site since 1938 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 172: 1904. WSP 566: Drainage area. WSP 1340: 1903-04, 1928(M).

GAGE.--Water-stage recorder. Datum of gage is 657.64 ft above National Geodetic Vertical Datum of 1929. Prior to July 26, 1904, nonrecording gage at site 0.8 mi downstream at different datum; July 26, 1904, to July 21, 1906, nonrecording gage at site 0.5 mi upstream from present site at datum about 0.85 ft higher than present gage; Jan. 3, 1923, to Sept. 29, 1928, nonrecording gage at site 400 ft downstream from present site at datum 0.14 ft lower than present datum; Sept. 30, 1928, to Jan. 17, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. National Weather Service gage-height and U.S.G.S. satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 6, 1897, reached a stage of about 29.0 ft, discharge, 120,000 ft³/s. A stage of 28.6 ft was reached on Aug. 20 and 22, 1915, discharge, 114,000 ft³/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	462	1,240	9,440	1,120	1,910	2,320	1,800	1,670	682	546	405	549
2	460	1,700	11,100	1,100	1,850	2,210	1,710	1,540	664	533	397	523
3	458	3,140	8,390	1,180	1,800	2,110	1,620	1,420	653	527	393	501
4	456	3,860	6,170	1,690	1,740	2,050	1,550	1,320	643	525	389	486
5	453	3,300	4,890	14,600	1,690	2,020	1,500	1,240	633	523	392	472
6	451	2,640	4,110	30,500	1,670	2,020	1,470	1,180	626	570	404	457
7	456	2,300	5,910	37,300	1,720	2,020	1,450	1,130	642	567	433	442
8	487	1,940	7,690	32,900	1,830	1,990	1,460	1,090	703	546	431	431
9	483	1,620	9,740	11,900	1,890	1,920	1,740	1,060	689	541	405	424
10	473	1,410	7,970	8,060	2,050	1,850	2,020	1,030	1,050	530	391	416
11	495	1,590	5,890	6,610	2,330	1,780	2,030	998	1,890	515	411	409
12	562	2,080	4,770	5,730	2,500	1,730	3,160	964	1,340	569	412	399
13	560	3,320	3,940	12,100	4,270	1,680	7,140	933	1,040	557	420	399
14	548	4,940	3,290	23,100	6,260	1,610	8,940	974	955	525	479	582
15	547	4,070	2,840	23,400	7,810	1,540	5,780	1,010	842	512	509	967
16	542	2,940	2,530	14,800	7,180	1,480	4,310	1,240	764	506	961	1,020
17	538	2,350	2,270	8,620	5,660	1,430	3,410	1,110	723	492	609	868
18	537	1,980	2,090	6,770	4,650	1,400	2,850	1,070	683	482	532	e1,630
19	543	1,730	1,950	5,710	3,920	1,360	2,480	1,080	650	485	507	e1,090
20	547	1,540	1,800	5,010	3,460	1,320	2,300	1,010	629	482	495	909
21	541	1,390	1,710	4,440	3,110	1,290	2,490	954	619	481	485	804
22	535	1,330	1,610	4,000	2,820	1,310	2,440	946	603	485	516	736
23	535	1,260	1,520	3,510	2,630	1,350	2,130	893	591	503	667	710
24	528	1,900	1,440	3,160	2,510	1,340	1,860	849	573	498	601	782
25	518	2,530	1,360	2,880	2,440	1,500	1,750	817	565	472	561	852
26	570	2,520	1,330	2,680	2,450	1,660	1,750	787	553	454	701	957
27	678	3,620	1,270	2,480	2,460	1,840	1,650	766	548	459	831	947
28	654	3,820	1,220	2,300	2,420	1,900	1,620	750	562	448	748	887
29	645	4,460	1,190	2,210	---	1,890	1,650	739	542	434	673	900
30	674	6,150	1,160	2,090	---	1,920	1,720	717	537	421	618	828
31	644	---	1,140	1,990	---	1,880	---	697	---	414	580	---
MEAN	535	2,622	3,927	9,159	3,108	1,733	2,593	1,032	740	503	528	713
MAX	678	6,150	11,100	37,300	7,810	2,320	8,940	1,670	1,890	570	961	1,630
MIN	451	1,240	1,140	1,100	1,670	1,290	1,450	697	537	414	389	399
IN.	0.22	1.03	1.59	3.72	1.14	0.70	1.02	0.42	0.29	0.20	0.21	0.28

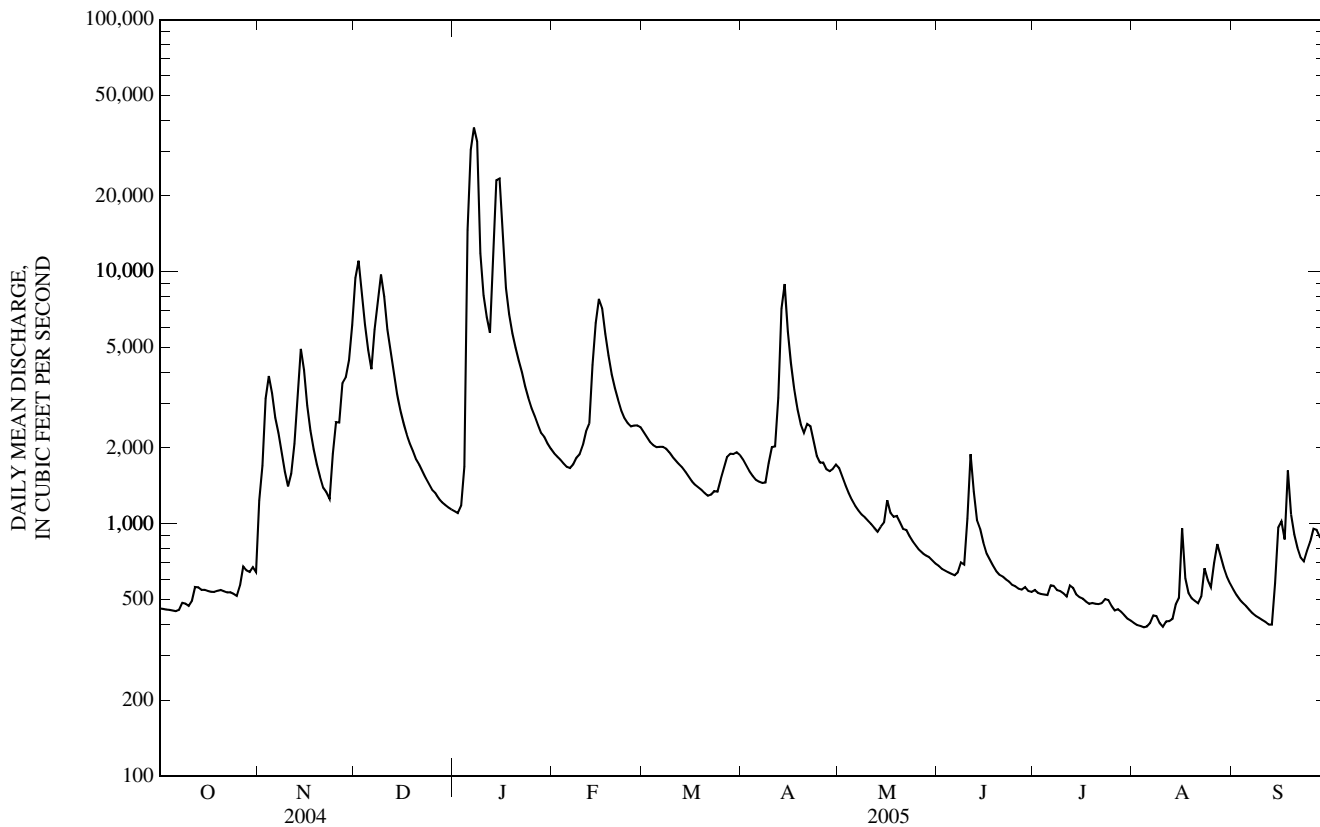
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	1,343	2,300	2,476	2,485	2,987	4,011	4,566	4,362	2,949	1,498	1,147	1,247
MAX	10,390	10,400	17,740	10,980	11,540	13,110	20,450	15,390	18,500	10,730	9,244	12,580
(WY)	(1950)	(1994)	(1983)	(1950)	(1985)	(1945)	(1945)	(1990)	(1935)	(1951)	(1927)	(1993)
MIN	289	368	392	368	491	597	504	532	518	339	324	293
(WY)	(1957)	(1957)	(1956)	(1956)	(1964)	(1956)	(1956)	(2000)	(1934)	(1934)	(1936)	(1956)

06933500 GASCONADE RIVER AT JEROME, MO—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	2,441		2,266		2,601	
HIGHEST ANNUAL MEAN					6,491	1985
LOWEST ANNUAL MEAN					544	1954
HIGHEST DAILY MEAN	24,900	Mar 6	37,300	Jan 7	121,000	Dec 5, 1982
LOWEST DAILY MEAN	451	Oct 6	389	Aug 4	259	Sep 21, 1956
ANNUAL SEVEN-DAY MINIMUM	457	Oct 1	399	Jul 31	266	Sep 16, 1956
MAXIMUM PEAK FLOW	---		37,800	Jan 8	136,000	Dec 5, 1982
MAXIMUM PEAK STAGE	---		17.26	Jan 8	31.34	Dec 5, 1982
INSTANTANEOUS LOW FLOW	---		386	Aug 4,5	254	Sep 21, 1956
ANNUAL RUNOFF (INCHES)	11.70		10.83		12.45	
10 PERCENT EXCEEDS	5,150		4,700		5,430	
50 PERCENT EXCEEDS	1,540		1,240		1,230	
90 PERCENT EXCEEDS	542		473		513	

e Estimated



06934000 GASCONADE RIVER NEAR RICH FOUNTAIN, MO

LOCATION.--Lat 38°23'20", long 91°49'12", in SE 1/4 sec.16, T.41 N., R.8 W., Osage County, Hydrologic Unit 10290203, on downstream side of State Highway 89 bridge, 100 ft downstream from Brush Creek Slough, 800 ft upstream from Swan Creek, and 4 mi east of Rich Fountain.

DRAINAGE AREA.--3,180 mi² (by U.S. Army Corps of Engineers).

PERIOD OF RECORD.--Nov. 1, 1921 to Sept. 30, 1959, Oct. 1, 1986 to current year. Annual peaks only for water years 1959 to 1986.

GAGE.--Water-stage recorder. Datum of gage 553.70 ft above National Geodetic Vertical Datum of 1929. From Oct. 10, 1921, to Sept. 13, 1932, chain gage on former bridge, 50 ft downstream; Sept. 14, 1932, to Mar. 9, 1934, wire-weight gage on former bridge; Mar. 10, 1934, to Aug. 26, 1956, water-stage recorder on former bridge; Aug. 26, 1956, to May 11, 1966, gage readings were obtained by measuring from a reference point on present bridge; May 11, 1966, to Oct. 31, 1986, Type-A wire-weight gage on present bridge. All gages have been maintained at present 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	493	1,620	7,390	1,190	2,270	2,620	2,080	2,450	824	604	463	692
2	492	2,640	10,400	1,170	2,200	2,520	1,990	2,220	802	605	455	652
3	488	2,450	10,100	2,930	2,130	2,420	1,890	2,020	779	592	451	616
4	477	3,810	7,310	4,920	2,070	2,360	1,800	1,860	761	583	443	587
5	472	4,150	5,500	25,900	2,000	2,290	1,720	1,710	748	578	440	564
6	469	3,300	4,580	30,500	1,960	2,260	1,660	1,600	737	573	446	546
7	479	2,830	9,550	34,100	1,970	2,260	1,630	1,500	728	609	463	532
8	521	2,520	7,430	38,900	2,200	2,240	1,590	1,430	753	627	488	521
9	538	2,210	8,910	34,200	2,310	2,180	1,590	1,380	813	606	490	511
10	522	1,940	9,760	11,700	2,350	2,120	1,890	1,320	1,590	592	466	502
11	513	3,150	7,240	7,960	2,460	2,050	2,110	1,270	2,010	583	465	493
12	565	3,860	5,480	6,780	2,710	1,990	2,290	1,230	2,560	618	473	484
13	666	2,990	4,460	13,900	5,410	1,930	4,010	1,170	1,810	649	482	480
14	637	3,990	3,770	19,600	6,450	1,880	8,410	1,180	2,100	644	525	552
15	608	4,970	3,270	26,600	7,540	1,800	7,610	1,180	1,470	603	613	2,170
16	596	3,810	2,910	24,900	8,130	1,730	5,110	1,220	1,170	578	772	2,090
17	589	3,090	2,640	13,000	6,670	1,670	4,070	1,460	1,020	565	1,170	1,360
18	705	2,650	2,420	8,270	5,320	1,620	3,450	1,320	934	549	963	1,130
19	608	2,400	2,240	6,540	4,460	1,570	3,030	1,280	860	538	686	1,680
20	596	2,150	2,080	5,570	3,930	1,530	2,720	1,270	803	545	613	4,080
21	596	1,950	1,960	4,920	3,540	1,490	2,950	1,200	764	533	582	1,660
22	594	1,850	1,850	4,390	3,230	1,530	3,570	1,390	746	526	569	1,170
23	590	1,840	1,730	3,990	2,980	1,660	3,180	1,290	724	533	608	987
24	580	3,730	1,630	3,600	2,870	1,710	2,630	1,120	704	555	801	897
25	573	5,340	1,540	3,320	2,750	1,830	2,330	1,040	674	546	821	957
26	697	4,080	1,470	3,110	2,690	2,040	2,270	989	652	516	932	1,020
27	769	4,590	1,410	2,920	2,700	2,090	2,260	956	637	516	962	1,130
28	859	5,330	1,350	2,720	2,680	2,220	2,140	929	649	504	1,030	1,160
29	820	4,810	1,300	2,590	---	2,210	2,360	908	643	489	923	1,470
30	791	6,840	1,260	2,480	---	2,180	2,410	885	621	480	824	1,310
31	783	---	1,220	2,370	---	2,140	---	854	---	469	742	---
MEAN	603	3,363	4,328	11,450	3,499	2,005	2,892	1,343	1,003	565	650	1,067
MAX	859	6,840	10,400	38,900	8,130	2,620	8,410	2,450	2,560	649	1,170	4,080
MIN	469	1,620	1,220	1,170	1,960	1,490	1,590	854	621	469	440	480
IN.	0.22	1.18	1.57	4.15	1.15	0.73	1.01	0.49	0.35	0.20	0.24	0.37

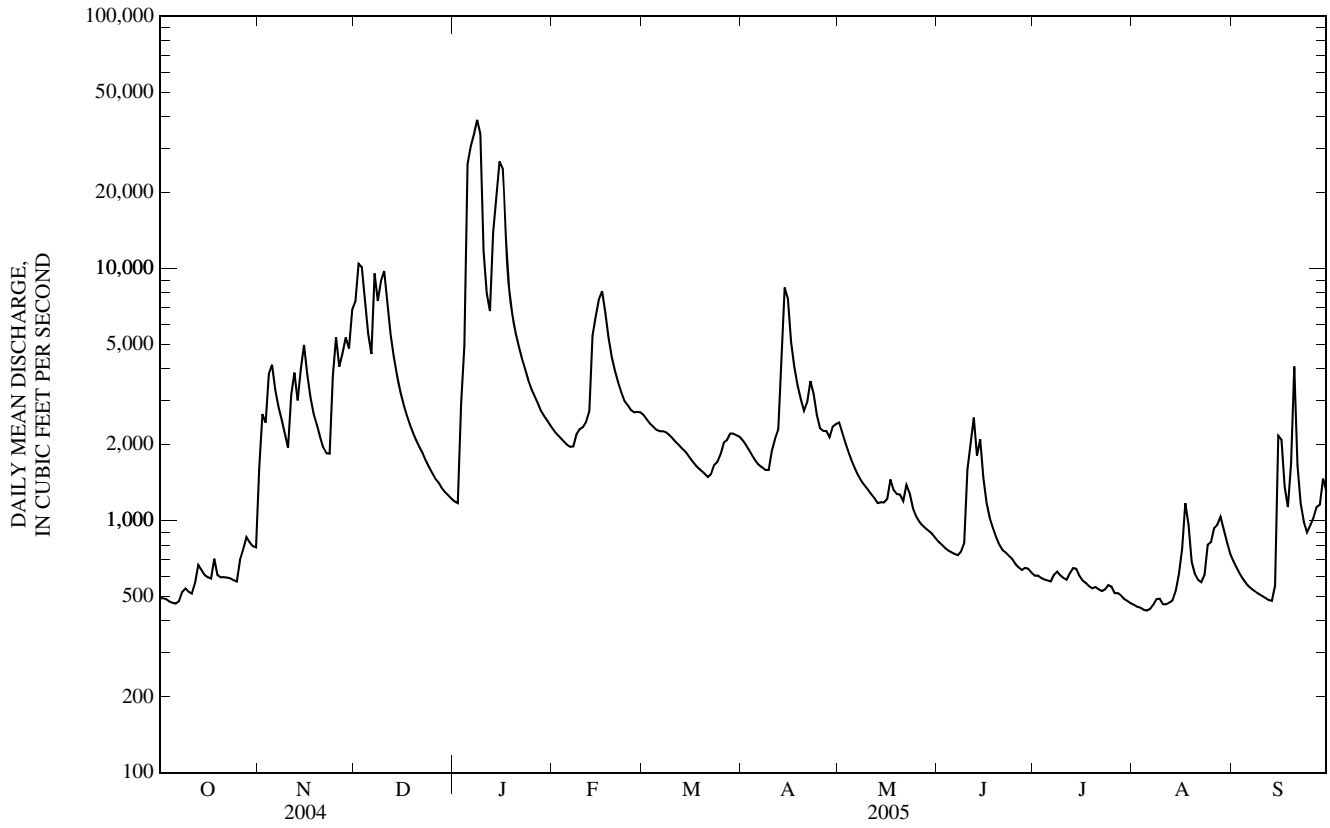
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	1,584	2,448	2,522	2,988	3,264	4,497	5,466	5,283	3,620	1,741	1,321	1,373
MAX	12,060	12,230	12,750	12,700	7,637	14,640	22,720	18,300	19,810	12,630	9,365	15,330
(WY)	(1950)	(1994)	(1988)	(1950)	(1949)	(1945)	(1945)	(1990)	(1935)	(1951)	(1927)	(1993)
MIN	288	394	403	374	558	620	531	670	647	385	334	295
(WY)	(1957)	(1957)	(1956)	(1956)	(1954)	(1956)	(1956)	(2000)	(1934)	(1954)	(1936)	(1954)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	FOR PERIOD OF RECORD
ANNUAL MEAN	2,856	2,732	3,004
HIGHEST ANNUAL MEAN			6,560
LOWEST ANNUAL MEAN			629
HIGHEST DAILY MEAN	25,800	Mar 7	38,900
LOWEST DAILY MEAN	469	Oct 6	440
ANNUAL SEVEN-DAY MINIMUM	481	Oct 1	452
MAXIMUM PEAK FLOW	---		39,900
MAXIMUM PEAK STAGE	---		19.86
INSTANTANEOUS LOW FLOW	---		438
ANNUAL RUNOFF (INCHES)	12.23		11.66
10 PERCENT EXCEEDS	6,160		5,330
50 PERCENT EXCEEDS	2,040		1,590
90 PERCENT EXCEEDS	608		526

06934000 GASCONADE RIVER NEAR RICH FOUNTAIN, MO—Continued



MISSOURI RIVER MAIN STEM

06934500 MISSOURI RIVER AT HERMANN, MO

LOCATION.--Lat 38°42'35", long 91°26'19", in SW $\frac{1}{4}$ sec.25, T.46 N., R.5 W., Montgomery County, Hydrologic Unit 10300200, on downstream side of third pier from right abutment of bridge on State Highway 19 at Hermann, and at mile 97.9.

DRAINAGE AREA.--522,500 mi². The 3,959 mi² in Great Divide basin are not included.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1897 to current year. Prior to August 1928 monthly discharge only published in WSP 1310. Gage-height records 1873-99 collected at site 480 ft downstream are contained in reports of Missouri River Commission; since 1900 in reports of the National Weather Service.

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

GAGE.--Water-stage recorder and nonrecording gage. Datum of gage is 481.56 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 26, 1930, nonrecording gage at site 480 ft downstream at datum 0.07 ft lower; Sept. 26, 1930, to Mar. 27, 1932, nonrecording gage; Mar. 28, 1932, to June 12, 1945, water-stage recorder; June 13, 1945, to Apr. 2, 1946, May 13 to Sept. 30, 1978, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Water-discharge records good. Some regulation from many upstream reservoirs. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1844 reached a stage of 35.5 ft, discharge, about 700,000 ft³/s, computed by the U.S. Army Corps of Engineers.

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	50,000	46,500	99,700	31,700	73,100	71,000	47,700	60,200	55,500	81,700	48,700	87,200
2	50,500	83,200	91,700	31,600	71,700	75,100	48,600	57,700	57,300	78,200	48,800	72,000
3	49,100	95,300	86,200	53,600	72,500	73,800	46,300	54,700	56,600	79,300	45,200	62,200
4	46,800	97,200	79,200	102,000	74,100	70,100	46,900	53,700	59,100	77,200	42,600	56,700
5	45,400	92,700	73,000	206,000	74,700	64,500	45,200	52,100	66,100	72,400	41,300	52,400
6	44,300	87,300	66,200	261,000	74,300	55,400	46,200	49,500	121,000	67,400	40,000	48,600
7	43,300	74,200	84,300	240,000	73,900	45,500	43,900	47,800	164,000	70,600	39,000	48,600
8	43,000	56,900	106,000	200,000	73,900	44,300	43,700	47,000	166,000	72,800	38,600	49,600
9	46,700	49,200	106,000	167,000	79,700	55,500	44,600	46,100	155,000	69,000	38,700	47,900
10	53,600	56,800	96,900	148,000	90,800	58,200	43,700	44,900	150,000	63,600	40,300	44,600
11	62,300	53,900	86,400	124,000	90,100	52,400	43,300	43,800	165,000	57,900	39,300	43,000
12	56,700	62,700	76,800	110,000	84,200	43,900	57,300	44,400	164,000	55,900	39,000	41,600
13	50,100	59,300	68,200	159,000	92,800	40,200	79,800	53,400	176,000	57,000	39,100	41,400
14	47,500	57,500	66,300	194,000	142,000	36,200	89,400	64,500	215,000	53,500	39,900	45,300
15	46,900	53,000	62,100	179,000	184,000	34,800	98,200	103,000	228,000	51,300	41,400	50,200
16	46,600	52,800	59,200	156,000	192,000	37,300	93,800	158,000	204,000	50,100	46,000	48,600
17	44,200	51,300	60,100	132,000	181,000	42,800	83,000	145,000	167,000	47,800	53,400	44,800
18	41,000	54,200	57,300	109,000	166,000	47,500	70,900	123,000	144,000	44,800	56,500	42,400
19	39,100	56,200	56,700	98,500	145,000	42,100	63,800	112,000	131,000	45,600	64,900	43,300
20	36,500	57,000	57,000	94,800	122,000	35,200	61,500	103,000	125,000	48,000	64,900	71,600
21	35,000	45,500	56,600	94,000	109,000	32,100	60,700	94,500	122,000	50,200	58,300	75,400
22	33,400	35,500	48,900	92,900	100,000	31,800	77,900	86,900	119,000	51,100	58,600	59,000
23	32,800	33,800	46,900	91,500	95,200	35,600	79,900	76,800	116,000	50,500	74,900	57,900
24	32,000	51,000	47,200	87,000	91,700	43,600	86,100	77,900	113,000	48,400	74,500	57,900
25	31,900	91,300	45,500	79,500	88,500	43,400	95,000	85,800	109,000	44,100	60,400	52,900
26	31,500	102,000	47,200	77,900	86,100	38,700	88,800	78,600	107,000	46,000	66,300	56,400
27	34,600	109,000	41,300	77,500	78,200	37,200	83,000	71,400	104,000	48,100	92,400	73,700
28	33,100	124,000	36,300	77,000	69,500	37,200	73,900	67,200	103,000	46,900	101,000	70,900
29	35,100	119,000	37,700	76,800	---	39,400	66,800	63,300	92,900	42,300	105,000	63,600
30	38,200	110,000	35,800	77,200	---	49,400	64,000	57,800	85,700	40,200	97,900	52,900
31	40,500	---	32,200	75,900	---	48,900	---	54,500	---	42,000	91,300	---
MEAN	42,640	70,610	65,000	119,500	102,700	47,200	65,800	73,500	128,000	56,580	57,680	55,420
MAX	62,300	124,000	106,000	261,000	192,000	75,100	98,200	158,000	228,000	81,700	105,000	87,200
MIN	31,500	33,800	32,200	31,600	69,500	31,800	43,300	43,800	55,500	40,200	38,600	41,400
IN.	0.09	0.15	0.14	0.26	0.20	0.10	0.14	0.16	0.27	0.12	0.13	0.12

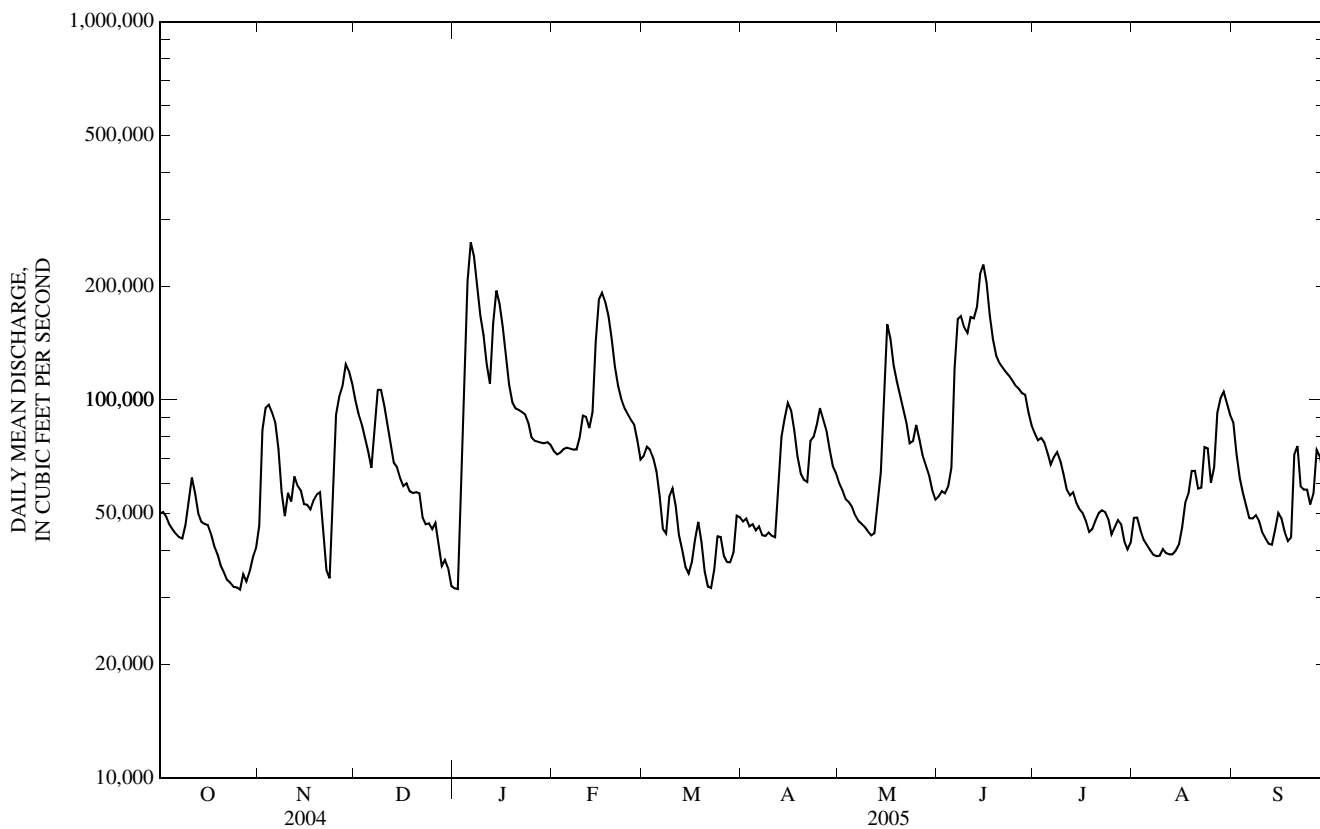
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2005^a, BY WATER YEAR (WY)

MEAN	77,050	77,720	62,400	51,880	68,200	95,380	118,300	121,100	120,100	98,780	73,660	75,300
MAX	286,700	174,800	178,900	129,000	136,800	267,500	333,400	313,000	282,300	376,300	306,600	243,500
(WY)	(1987)	(1999)	(1983)	(1973)	(1982)	(1973)	(1973)	(1995)	(1995)	(1993)	(1993)	(1993)
MIN	36,680	29,400	17,060	17,350	19,250	22,810	45,800	47,710	46,150	44,010	37,920	37,800
(WY)	(1964)	(1991)	(1964)	(1963)	(1964)	(1964)	(1963)	(1989)	(1988)	(1988)	(2003)	(1963)

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1958 - 2005 ^a	
ANNUAL MEAN	72,340		73,420		86,670	
HIGHEST ANNUAL MEAN					181,800	1993
LOWEST ANNUAL MEAN					44,980	1963
HIGHEST DAILY MEAN	210,000	Mar 7	261,000	Jan 6	739,000	Jul 31, 1993
LOWEST DAILY MEAN	31,100	Feb 17	31,500	Oct 26	6,210	Dec 23, 1963
ANNUAL SEVEN-DAY MINIMUM	32,800	Oct 22	32,800	Oct 22	7,400	Dec 20, 1963
MAXIMUM PEAK FLOW	---		267,000	Jan 6	750,000	Jul 31, 1993
MAXIMUM PEAK STAGE	---		25.81	Jan 6	36.97	Jul 31, 1993
INSTANTANEOUS LOW FLOW	---		31,200	Oct 26	602	Dec 23, 1963
ANNUAL RUNOFF (INCHES)	1.89		1.91		2.25	
10 PERCENT EXCEEDS	117,000		122,000		162,000	
50 PERCENT EXCEEDS	62,000		59,200		67,200	
90 PERCENT EXCEEDS	38,400		39,400		36,700	

^a Post-regulation period.



06934500 MISSOURI RIVER AT HERMANN, MO—Continued
(National Stream-Quality Accounting Network)

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1996.

WATER TEMPERATURE: October 1974 to September 1996.

DISSOLVED OXYGEN: June 1984 to September 1984, April 1985 to September 1985, April 1986 to September 1986.

INSTRUMENTATION.--Water-quality monitor, June 1984 to September 1984, April 1985 to September 1985, April 1986 to September 1986.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: (water years 1976 to 1996): Maximum daily, 2,150 microsiemens per centimeter, Dec. 9, 1978; minimum daily, 205 microsiemens per centimeter, Apr. 16, 1979.

WATER TEMPERATURE: (water years 1976 to 1996): Maximum daily, 32.5 °C, July 31, 1987; minimum daily, 0.0 °C on many days during winter period.

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

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf μS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)
OCT 28...	1055	Environmental	32,700	.093	.069	8.4	89	7.9	702	17.2	280	72.1
DEC 09...	1055	Environmental	107,000	.149	.113	11.8	104	7.6	387	8.2	150	41.2
DEC 09...	1103	Blank	--	--	--	--	--	--	--	--	--	<.02
JAN 11...	1030	Environmental	124,000	.135	.100	12.7	98	7.4	359	3.8	150	40.7
FEB 18...	1100	Environmental	167,000	.165	.124	11.5	93	7.4	335	5.9	130	38.4
MAR 10...	1145	Environmental	57,700	.095	.070	11.2	97	7.7	527	7.9	210	59.1
APR 08...	1015	Environmental	43,400	.069	.049	14.3	146	7.9	636	15.1	--i	--i
APR 08...	1023	Blank	--	<.004	<.004	--	--	--	--	--	--	--
APR 14...	1045	Environmental	88,800	.143	.106	7.1	73	7.7	519	15.8	200	53.2
MAY 11...	1010	Environmental	43,800	.096	.069	9.3	105	8.1	685	20.3	280	72.1
MAY 16...	1135	Environmental	162,000	.150	.112	4.9	78	7.7	529	19.3	190	50.8
JUN 08...	1140	Environmental	167,000	.150	.112	5.4	65	7.5	410	23.2	160	43.7
JUN 28...	1025	Environmental	103,000	.124	.091	5.8	76	7.7	549	27.9	240	64.1
JUL 13...	1120	Environmental	57,400	.108	.079	7.0	92	8.1	650	27.6	260	67.6
JUL 13...	1130	Replicate	--	.108	.078	--	--	--	--	--	260	66.7
AUG 16...	1125	Environmental	45,700	.096	.069	6.8	86	8.0	721	26.3	240	59.0
AUG 16...	1133	Blank	--	--	--	--	--	--	--	--	--	--
SEP 13...	0955	Environmental	41,400	.087	.060	7.7	99	8.2	677	26.9	240	60.8

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

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

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt fxd end field, mg/L as CaCO ₃ (39036)	Alkalinity, wat flt inc tit field, mg/L as CaCO ₃ (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
OCT 28...	24.5	6.09	43.4	243	203	247	<1	26.1	.5	12.3	109	430	.31
DEC 09...	12.5	4.48	16.2	114	115	141	<1	13.1	.2	9.86	42.5	224	.43
09...	<.008	--	<.20	--	--	--	--	--	--	<.04	--	--	--
JAN 11...	11.1	4.60	16.9	122	126	154	<1	14.7	.2	9.94	38.1	216	.40
FEB 18...	8.41	4.50	14.7	97	96	117	<1	15.0	.2	9.62	33.0	203	.51
MAR 10...	16.2	4.90	24.6	150	151	184	<1	18.5	.2	11.5	59.2	309	.32
APR 08...	--i	--i	--i	--i	154	191	<1	22.2	.5	--i	117	393	.24
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	16.9	5.25	34.0	140	141	172	<1	17.4	.4	9.50	91.7	338	.40
MAY 11...	23.9	5.74	41.9	184	185	226	<1	23.4	.5	10.7	120	432	.28
16...	16.1	5.64	32.1	143	143	174	<1	18.3	.4	9.79	84.4	328	.48
JUN 08...	12.7	5.36	21.0	112	113	138	<1	14.3	.3	10.0	56.2	246	.42
28...	20.3	5.94	26.9	149	150	183	<1	15.6	.4	12.3	92.5	354	.40
JUL 13...	21.6	6.16	35.2	179	180	220	<1	19.6	.4	12.5	109	393	.37
13...	21.4	6.09	34.9	--	--	--	--	19.6	.4	12.5	109	395	.42
AUG 16...	21.4	6.48	57.2	168	171	208	<1	29.4	.5	9.20	140	446	.38
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 13...	20.6	6.22	54.0	151	153	187	<1	20.6	.5	6.68	143	436	.31

Date	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Phaeophytin a, phytoplankton, µg/L (62360)
OCT 28...	.64	<.04	1.41	.012	.40	.095	.105	.20o	3.2	<.1	3.2	85.0d	15.5
DEC 09...	.84	<.04	.99	E.004n	.39	.075	.092	.29o	3.7	<.1	3.7	4.7	4.8
09...	--	<.010	<.016	<.002	--	<.006	--	--	--	--	--	--	--
JAN 11...	.67	E.03n	.98	.015	.30	.068	.086	.23o	2.7	.2	2.5	4.6	2.6
FEB 18...	2.0	.06	1.21	.011	1.42	.055	.069	.65o	13.8	<.1	13.7	5.6	9.4
MAR 10...	.59	<.04	1.35	E.006n	.19	.069	.083	.188	1.8	<.1	1.8	3.5	2.1
APR 08...	.74	<.04	.98	E.005n	.36	.076	.085	.20o	2.6	<.1	2.6	2.8	8.8
08...	--	--	--	--	.04	--	--	--	<.1	<.1	<.1	.4	--
14...	1.8	E.02n	1.25	.033	.76	.077	E.090	.44o	7.9	.2	7.7	4.6	4.8
MAY 11...	.96	<.04	2.04	E.004n	.72	.099	.119	.23o	5.6	<.1	5.5	3.8	19.5
16...	4.5	<.04	2.57	.120	2.57	.071	.094	1.36@o	19.7	.5	19.2	4.8	25.8
JUN 08...	3.1	<.04	2.42	.070	1.87	.080	.094	.88o	15.3	.6	14.7	4.7	20.7
28...	.85	<.04	1.94	E.005n	.38	.120	.137	.32o	3.4	<.1	3.4	3.9	8.9
JUL 13...	.56	<.04	1.93	E.004n	.33	.133	.160	.20o	2.0	<.1	2.0	3.7	8.0
13...	.60	<.04	1.93	E.004n	.31	.130	.162	.21o	2.4	<.1	2.4	3.6	7.7
AUG 16...	.74	<.04	.61	.011	.42	.120	.149	.25o	4.5	<.1	4.5	4.4	23.3
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 13...	.72	<.04	E.04n	E.004n	.39	.082	.101	.20o	2.7	<.1	2.7	3.9	21.1

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

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

Date	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC col/ 0.7µ MF 100 mL (31625)	Chloro- phyll a phyto- plank- ton, fluoro, µg/L (70953)	Alum- inum, water, fltrd, µg/L (01106)	Anti- mony, water, fltrd, µg/L (01095)	Arsenic water, fltrd, µg/L (01000)	Barium, water, fltrd, µg/L (01005)	Beryll- ium, water, fltrd, µg/L (01010)	Boron, water, fltrd, µg/L (01020)	Cadmium water, fltrd, µg/L (01025)	Chrom- ium, water, fltrd, µg/L (01030)	Cobalt water, fltrd, µg/L (01035)	Copper, water, fltrd, µg/L (01040)
OCT 28...	360	400k	24.3	--	--	2.7	--	--	100	--	--	--	--
DEC 09...	2,600	2,400	8.8	3	E.14n	1.5	70	<.06	38	E.03n	<.8	.216	1.7
09...	--	--	--	<2	<.20	<.2	<.2	<.06	<8	<.04	<.8	<.014	<.4
JAN 11...	850	1,000	4.1	--	--	1.2	--	--	28	--	--	--	--
FEB 18...	540	860	12.5	--	--	1.2	--	--	24	--	--	--	--
MAR 10...	48	32k	8.1	3	E.18n	1.8	86	<.06	43	E.03n	<.8	.243	1.4
APR 08...	33k	46	36.6	--	--	--i	--	--	--i	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	1,800k	1,800k	6.5	--	--	1.8	--	--	65	--	--	--	--
MAY 11...	39	56	52.4	3	.36	3.2	123	<.06	107	E.04n	<.8	.235	2.1
16...	1,700	2,200	23.3	3	.39	2.2	111	<.06	89	E.03n	<.8	.249	2.3
JUN 08...	800k	800k	11.3	2	.37	2.1	91	<.06	49	<.04	<.8	.150	2.3
28...	53k	80	8.1	--	--	3.6	--	--	64	--	--	--	--
JUL 13...	35k	27k	18.2	4	.47	4.1	117	<.06	73	E.03n	<.8	.191	3.4
13...	--	--	17.8	--	--	4.1	--	--	74	--	--	--	--
AUG 16...	44k	120	--	5	.54	4.3	106	<.06	140	E.04n	<.8	.229	3.4
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 13...	10k	7k	40.3	--	--	3.5o	--	--	117	--	--	--	--

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lithium water, fltrd, µg/L (01130)	Mangan- ese, water, fltrd, µg/L (01056)	Molyb- denum, water, fltrd, µg/L (01060)	Nickel, water, fltrd, µg/L (01065)	Selen- ium, water, fltrd, µg/L (01145)	Silver, water, fltrd, µg/L (01075)	Stront- ium, water, fltrd, µg/L (01080)	Vanad- ium, water, fltrd, µg/L (01085)	Zinc, water, fltrd, µg/L (01090)	2,6-Di- ethyl- aniline water fltrd 0.7µ GF (82660)	CIAT, water, fltrd, µg/L (04040)
OCT 28...	<6	--	30.7	--	--	--	1.7	--	442	3.1	--	<.006	E.009
DEC 09...	14	E.07n	8.7	2.6	1.3	2.98	.9	<.2	203	1.4	1.8	<.006	E.027
09...	<6	<.08	<.6	<.2	<.4	<.06	<.4	<.2	<.40	<.1	<.6	--	--
JAN 11...	7	--	6.3	--	--	--	1.1	--	176	1.4	--	<.006	E.011
FEB 18...	17	--	7.0	--	--	--	.9	--	206	1.7	--	<.006	E.008
MAR 10...	16	<.08	12.5	3.8	1.7	3.93	1.8	<.2	284	1.7	.9	<.006	E.008m
APR 08...	--i	--	--i	--	--	--	--i	--	--i	--i	--	<.006	E.006m
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	7	--	18.5	--	--	--	1.3	--	344	3.7	--	<.006	E.027m
MAY 11...	E3n	<.08	28.2	.8	3.5	2.47	2.6	<.2	449	5.3	1.2	<.006	E.014m
16...	E5n	<.08	24.8	.8	3.2	4.87	2.2	<.2	315	3.7	.6	<.006	E.552m
JUN 08...	<6	<.08	13.1	.7	2.4	3.64	1.3	<.2	270	3.5	1.7	<.006	E.183m
28...	<6	--	18.8	--	--	--	1.9	--	363	5.4	--	<.006	E.065m
JUL 13...	<6	<.08	22.3	.6	3.6	3.23	2.1	<.2	397	5.8	1.9	<.006	E.062m
13...	<6	--	22.8	--	--	--	2.2	--	394	5.8	--	<.006	E.063m
AUG 16...	E5n	<.08	37.0	1.0	4.6	3.78	2.0	<.2	450	5.1	1.7	<.006	E.038m
16...	--	--	--	--	--	--	--	--	--	--	--	<.006	<.006m
SEP 13...	<6	--	36.5	--	--	--	1.5o	--	437	4.1o	--	<.006	E.029m

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

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

Date	Aceto- chlor, water, fltrd, µg/L (49260)	Ala- chlor, water, fltrd, µg/L (46342)	alpha- HCH, water, fltrd, µg/L (34253)	Atra- zine, water, fltrd, µg/L (39632)	Azin- phos- methyl, water, fltrd, 0.7µ GF µg/L (82686)	Ben- flur- alin, water, fltrd, 0.7µ GF µg/L (82673)	Butyl- ate, water, fltrd, µg/L (04028)	Car- baryl, water, fltrd, 0.7µ GF µg/L (82680)	Carbo- furan, water, fltrd, 0.7µ GF µg/L (82674)	Chlor- pyrifos water, fltrd, µg/L (38933)	cis- Per- methrin water fltrd 0.7µ GF µg/L (82687)	Cyana- zine, water, fltrd, µg/L (04041)	DCPA, water fltrd 0.7µ GF µg/L (82682)
OCT 28...	E.005n	<.004	<.005	.460	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003
DEC 09...	.010	<.004	<.005	.187	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 11...	<.010	<.004	<.005	.126	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003
FEB 18...	.011	<.010	<.005	.107	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003
MAR 10...	<.006	<.005	<.005	.101	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003
APR 08...	.011	<.005	<.005	.076	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	.483	.128	<.005	1.35	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003
MAY 11...	.045	.007	<.005	.464	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003
16...	1.03	.266	<.005	7.82	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003
JUN 08...	.511	.177	<.005	3.35	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003
28...	.087	.033	<.005	1.02	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003
JUL 13...	.039	.013	<.005	.729	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003
13...	.040	.014	<.005	.775	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003
AUG 16...	.018	<.005	<.005	.257	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003
16...	<.010	<.005	<.005	<.007	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003
SEP 13...	.008	<.005	<.005	.230	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003
Date	Diazi- non, water, fltrd, µg/L (39572)	Diel- drin, water, fltrd, µg/L (39381)	Disul- foton, water, fltrd 0.7µ GF µg/L (82677)	EPTC, water, fltrd 0.7µ GF µg/L (82668)	Ethal- flur- alin, water, fltrd 0.7µ GF µg/L (82663)	Etho- prop, water, fltrd 0.7µ GF µg/L (82672)	Fonofos water, fltrd, µg/L (04095)	Lindane water, fltrd, µg/L (39341)	Linuron water, fltrd 0.7µ GF µg/L (82666)	Malathion, water, fltrd, µg/L (39532)	Methyl para- thion, water, fltrd 0.7µ GF µg/L (82667)	Metola- chlor, water, fltrd, µg/L (39415)	Metri- buzin, water, fltrd, µg/L (82630)
OCT 28...	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006	.052	<.006
DEC 09...	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006	.030	<.006
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 11...	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006	.018	<.006
FEB 18...	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006	.040	<.006
MAR 10...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.064	<.006
APR 08...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.019	<.006
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.248	<.010
MAY 11...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.104	<.006
16...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	1.50	.054
JUN 08...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.780	.023
28...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.466	<.006
JUL 13...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.237	<.006
13...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.251	<.006
AUG 16...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.114	<.006
16...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	<.006	<.006
SEP 13...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.051	<.006

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

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

Date	Molinate, water, fltrd 0.7µ GF (82671)	Naprop- amide, water, fltrd 0.7µ GF (82684)	p,p'- DDE, water, fltrd, µg/L (34653)	Para- thion, water, fltrd, µg/L (39542)	Peb- ulate, water, fltrd 0.7µ GF (82669)	Pendi- meth- alin, water, fltrd 0.7µ GF (82683)	Phorate water fltrd 0.7µ GF (82664)	Prome- ton, water, fltrd, µg/L (04037)	Propy- zamide, water, fltrd 0.7µ GF (82676)	Propa- chlor, water, fltrd, µg/L (04024)	Pro- panil, water, fltrd 0.7µ GF (82679)	Propar- gite, water, fltrd 0.7µ GF (82685)	Sima- zine, water, fltrd, µg/L (04035)
OCT 28...	<.002	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.010	<.011	<.02	.079
DEC 09...	<.002	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.010	<.011	<.02	.119
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 11...	<.002	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.010	<.011	<.02	.118
FEB 18...	<.002	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.010	<.011	<.02	.093
MAR 10...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.019
APR 08...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.010
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.025
MAY 11...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.017
16...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	.02	<.004	<.025	<.011	<.02	.237
JUN 08...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	.02	<.004	<.025	<.011	<.02	.074
28...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.010
JUL 13...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	E.01n	<.004	<.025	<.011	<.02	.009
13...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	E.01n	<.004	<.025	<.011	<.02	.009
AUG 16...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.006
16...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.013	<.02	<.005
SEP 13...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	E.01n	<.004	<.025	<.011	<.02	<.005

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

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

Date	Tebu- thiuron water fltrd 0.7µ GF µg/L (82670)	Terba- cil, water, fltrd 0.7µ GF µg/L (82665)	Terbu- fos, water, fltrd 0.7µ GF µg/L (82675)	Thio- bencarb water fltrd 0.7µ GF µg/L (82681)	Tri- allate, water, fltrd 0.7µ GF µg/L (82678)	Tri- flur- alin, water, fltrd 0.7µ GF µg/L (82661)	Uranium natural water, fltrd, µg/L (22703)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT									
28...	<.02	<.034	<.02	<.005	<.002	<.009	--	98	113
DEC									
09...	<.02	<.034	<.02	<.005	<.002	<.009	1.49	52	318
09...	--	--	--	--	--	--	<.04	--	--
JAN									
11...	<.02	<.034	<.02	<.005	<.002	<.009	--	36	259
FEB									
18...	<.02	<.034	<.02	<.005	<.002	<.009	--	76	1,050
MAR									
10...	<.02	<.034m	<.02	<.010	<.006	<.009	2.30	67	110
APR									
08...	<.02	<.034m	<.02	<.010	<.006	<.009	--	69	111
08...	--	--	--	--	--	--	--	--	--
14...	<.02	<.034m	<.02	<.010	<.006	<.009	--	98	873
MAY									
11...	<.02	<.034m	<.02	<.010	<.006	<.009	5.02	86	132
16...	<.02	<.034m	<.02	<.010	<.006	<.009	2.64	91	2,740
JUN									
08...	<.02	<.034m	<.02	<.010	<.006	<.009	1.76	89	1,880
28...	<.02	<.034m	<.02	<.010	<.006	<.009	--	76	210
JUL									
13...	<.02	<.034m	<.02	<.010	<.006	<.009	4.01	81	105
13...	<.02	<.034m	<.02	<.010	<.006	<.009	--	--	--
AUG									
16...	<.02	<.034m	<.02	<.010	<.006	<.009	3.29	66	137
16...	<.02	<.119m	<.02	<.010	<.006	<.009	--	--	--
SEP									
13...	<.02	<.034m	<.02	<.010	<.006	<.009	--	100	47

Remark codes used in this table:

< -- Less than.
E -- Estimated.

Value qualifier codes used in this table:

@ -- Holding time exceeded
d -- Diluted sample: method hi range exceeded
k -- Counts outside acceptable range
m -- Value is highly variable by this method
n -- Below the LRL and above the LT-MDL
o -- Result determined by alternate method

Null value qualifier codes used in this table:

i -- Required sample type not received

06935715 MISSOURI RIVER NEAR CHESTERFIELD, MO
(Metropolitan St. Louis Sewer District Network)

LOCATION.--Lat 38°39'46", long 90°43'40", St. Louis County, Hydrologic Unit 10300200, at Weldon Spring river access ramp at mile 48, off of Highway 94, south of Interstate 64/Highway 40.

DRAINAGE AREA.--529,900 mi².

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)	Carbon dioxide water, unfltrd mg/L (00405)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfltrd μS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	
OCT 18...	1235	Environmental	44,400	2.2	9.4	97	8.2	601	15.0	230	61.3	19.6	
APR 06...	1200	Environmental	44,700	2.0	14.2	142	8.2	629	14.2	240	63.6	19.9	
13...	0915	Environmental	73,800	4.1	8.6	92	7.9	631	16.9	230	59.9	19.7	
MAY 02...	1150	Environmental	58,800	9.2	8.8	89	7.5	572	15.3	230	60.8	19.6	
JUN 06...	1115	Environmental	65,300	4.1	7.8	96	7.9	685	24.8	270	67.0	24.1	
12...	1120	Environmental	153,000	12	5.3	63	7.3	395	23.5	160	42.0	12.2	
JUL 18...	1215	Environmental	48,400	1.8	7.5	101	8.2	676	30.6	270	69.1	22.6	
AUG 01...	1105	Blank	--	--	--	--	--	--	--	--	E.02n	E.007n	
01...	1210	Environmental	41,900	1.2	8.3	111	8.5	718	29.8	270	68.1	23.8	
14...	1115	Environmental	40,200	3.6	6.5	85	8.0	743	28.0	280	69.8	24.5	
Date	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	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)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	COD, high level, water, unfltrd mg/L (00340)	E coli, m-TEC MF, water, col/100 mL (31633)
OCT 18...	175	175	214	<1	73	.70	<.04	1.20	E.005n	.10	.26	<10	120
APR 06...	162	164	200	<1	68	.79	<.04	.90	E.004n	.05	.18	20	2k
13...	166	168	205	<1	132	1.0	<.04	.97	E.006n	.04	.27	20	1,500
MAY 02...	157	160	195	<1	316d	1.4	<.04	2.78	E.006n	.09	.51	30	1,900
JUN 06...	168	168	205	<1	162	.96	<.04	2.55	.012	.12	.34	20	60k
12...	116	118	144	<1	325d	1.4	<.04	1.86	E.005n	.03	.50	30	1,300
JUL 18...	161	160	196	<1	26	.67	<.04	1.28	E.005n	.10	.19	20	23k
AUG 01...	--	--	--	--	<10	E.06n	<.04	<.06	<.008	<.02	<.04	<10	--
01...	186	188	E221	E4	28	.64	<.04	.57	.009	.08	.14	20	13k
14...	179	181	220	<1	63	.68	<.04	.58	E.005n	.10	.21	10	26k

06935715 MISSOURI RIVER NEAR CHESTERFIELD, MO—Continued

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

Date	Fecal coli-form, M-FC 0.7µ MF col/100 mL (31625)	Aluminum, water, fltrd, µg/L (01106)	Arsenic water, fltrd, µg/L (01000)	Beryllium, water, fltrd, µg/L (01010)	Cadmium water, fltrd, µg/L (01025)	Chromium, water, fltrd, µg/L (01030)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Manganese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover-able, µg/L (71900)	Nickel, water, fltrd, µg/L (01065)	Selenium, water, fltrd, µg/L (01145)
OCT 18...	140k	E1n	3.0	<.06	.06	<.8	2.1	<6	E.06n	2.1	<.01	2.47	1.7
APR 06...	7k	6	2.6	<.06	.04	2.2	1.7	11	.45	.9	<.01	5.87	2.4
13...	1,400k	3	2.6	<.06	E.03n	<.8	1.9	E4n	<.08	1.6	E.01n	3.29	2.3
MAY 02...	570	2	2.7	<.06	E.03n	1.1	2.2	E4n	.35	E.4n	.01	1.45	2.5
JUN 06...	83k	4	3.6	<.06	E.03n	1.2	2.1	<6	.14	E.4n	E.01n	3.55	2.6
12...	1,600	3	1.8	<.06	<.04	<.8	2.1	<6	<.08	E.3n	.01	3.54	1.2
JUL 18...	12k	6	4.4	<.06	E.04n	1.0	2.5	E4n	.13	1.0	<.01	3.59	2.5
AUG 01...	--	<2	<.2	<.06	<.04	<.8	E.2n	<6	<.08	<.6	<.01	E.06n	<.4
01...	36	5	4.5	<.06	E.03n	<.8	2.5	<6	<.08	.8	<.01	2.87	2.4
14...	38k	3	4.5	<.06	E.02n	<.8	1.9	<6	<.08	E.4n	<.01	4.15	1.5

Date	Silver, water, fltrd, µg/L (01075)	Zinc, water, fltrd, µg/L (01090)
OCT 18...	<.2	1.3
APR 06...	<.2	1.0
13...	<.2	1.0
MAY 02...	<.2	.8
JUN 06...	<.2	.7
12...	<.2	1.1
JUL 18...	<.2	1.6
AUG 01...	<.2	E.3n
01...	<.2	.7
14...	<.2	.7

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

06935755 BONHOMME CREEK NEAR ELLISVILLE, MO

LOCATION.--Lat 38°36'35", long 90°40'21", St. Louis County, Hydrologic Unit 10300200, on right downstream side of Rieger Road bridge, 0.14 mi southwest of State Road 109, 1.56 mi north of State Road 100 (Manchester Road), 1.25 mi west of St. Louis County Highway C, and 9.55 mi upstream of Missouri River.

DRAINAGE AREA.--4.44 mi².

PERIOD OF RECORD.--September 1997 to current year. Annual peaks only for 1972-1974 water years published in WRD MO 1974.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 568.56 ft above National Geodetic Vertical Datum of 1929. Prior to September 1997, at datum of 570.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except discharges below 0.5 ft³/s and above 500 ft³/s, which are poor. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 23, 1973 reached a stage of 8.64 ft, former datum, discharge, 2,640 ft³/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	0.05	9.7	6.5	0.72	1.1	1.2	1.2	1.0	0.11	0.04	0.01	0.13
2	0.05	2.1	2.8	0.76	1.1	1.2	1.3	0.73	0.09	0.04	0.01	0.12
3	0.04	1.2	1.7	e112	1.1	1.1	1.0	0.60	0.09	0.04	0.00	0.10
4	0.04	1.7	1.2	e167	1.1	0.99	0.94	0.56	0.08	0.03	0.00	0.09
5	0.04	0.64	1.2	245	1.00	0.93	0.92	0.62	0.08	0.04	0.00	0.08
6	0.04	0.45	5.7	33	0.98	1.1	0.83	0.58	0.14	0.03	0.00	e0.07
7	0.05	0.39	81	11	3.3	1.2	0.78	0.54	0.16	0.02	0.00	0.06
8	0.05	0.33	5.4	6.5	3.5	1.1	0.76	0.48	0.11	0.02	0.00	0.07
9	0.07	0.29	3.2	5.2	2.5	0.98	0.71	0.47	0.14	0.03	0.00	0.06
10	0.07	0.28	2.2	4.1	1.8	0.92	0.70	0.45	0.41	0.03	0.00	0.06
11	0.07	49	1.8	3.8	1.5	0.93	1.5	0.39	1.3	0.03	0.01	0.06
12	1.0	4.2	1.5	68	1.4	0.95	43	0.32	0.67	1.8	0.03	0.05
13	0.28	1.0	1.3	158	55	1.0	18	0.28	2.1	0.45	0.11	0.04
14	0.34	0.57	1.1	15	13	0.91	5.1	0.46	1.6	0.15	0.54	0.06
15	0.78	0.42	0.97	7.1	6.8	0.74	2.9	0.31	0.24	0.50	0.69	38
16	0.19	0.38	0.96	4.8	4.2	0.69	1.9	0.25	0.12	0.18	0.58	4.2
17	0.13	0.31	0.96	3.6	3.1	0.72	1.5	0.20	0.11	0.05	0.25	0.76
18	2.1	0.55	0.95	3.0	2.4	0.69	1.2	0.24	0.09	0.05	0.27	0.37
19	0.35	2.1	0.79	3.2	2.0	0.69	1.0	0.20	0.07	0.04	0.27	10
20	0.16	0.56	0.71	3.2	2.0	0.69	1.2	0.20	0.07	0.03	0.13	22
21	0.12	0.35	0.69	2.8	1.9	1.0	3.7	0.15	0.06	0.02	0.11	0.94
22	0.10	1.0	0.66	2.5	1.9	26	22	0.26	0.07	0.02	0.10	0.65
23	0.13	0.57	0.58	2.2	1.7	8.4	1.8	0.18	0.08	0.01	0.10	0.43
24	0.15	49	0.54	2.2	2.1	4.0	1.1	0.15	0.05	0.01	0.12	0.35
25	0.12	9.9	0.61	2.4	1.7	5.3	0.92	0.13	0.07	0.00	e0.20	e18
26	0.64	11	0.67	2.4	1.3	3.1	1.1	0.12	0.06	0.00	e2.1	e2.3
27	3.7	9.1	0.61	2.0	1.3	2.6	0.88	0.13	0.05	0.07	e1.0	0.55
28	0.37	3.2	0.62	1.7	1.3	2.3	0.93	0.15	0.06	0.04	e0.40	27
29	0.20	5.6	0.64	1.5	---	2.1	1.1	0.12	0.04	0.02	0.15	2.2
30	0.16	14	0.68	1.6	---	1.8	1.0	0.22	0.03	0.01	0.16	0.68
31	0.14	---	0.69	1.4	---	1.3	---	0.14	---	0.05	0.15	---
MEAN	0.38	6.00	4.16	28.3	4.36	2.47	4.03	0.34	0.28	0.12	0.24	4.32
MAX	3.7	49	81	245	55	26	43	1.0	2.1	1.8	2.1	38
MIN	0.04	0.28	0.54	0.72	0.98	0.69	0.70	0.12	0.03	0.00	0.00	0.04
IN.	0.10	1.51	1.08	7.35	1.02	0.64	1.01	0.09	0.07	0.03	0.06	1.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

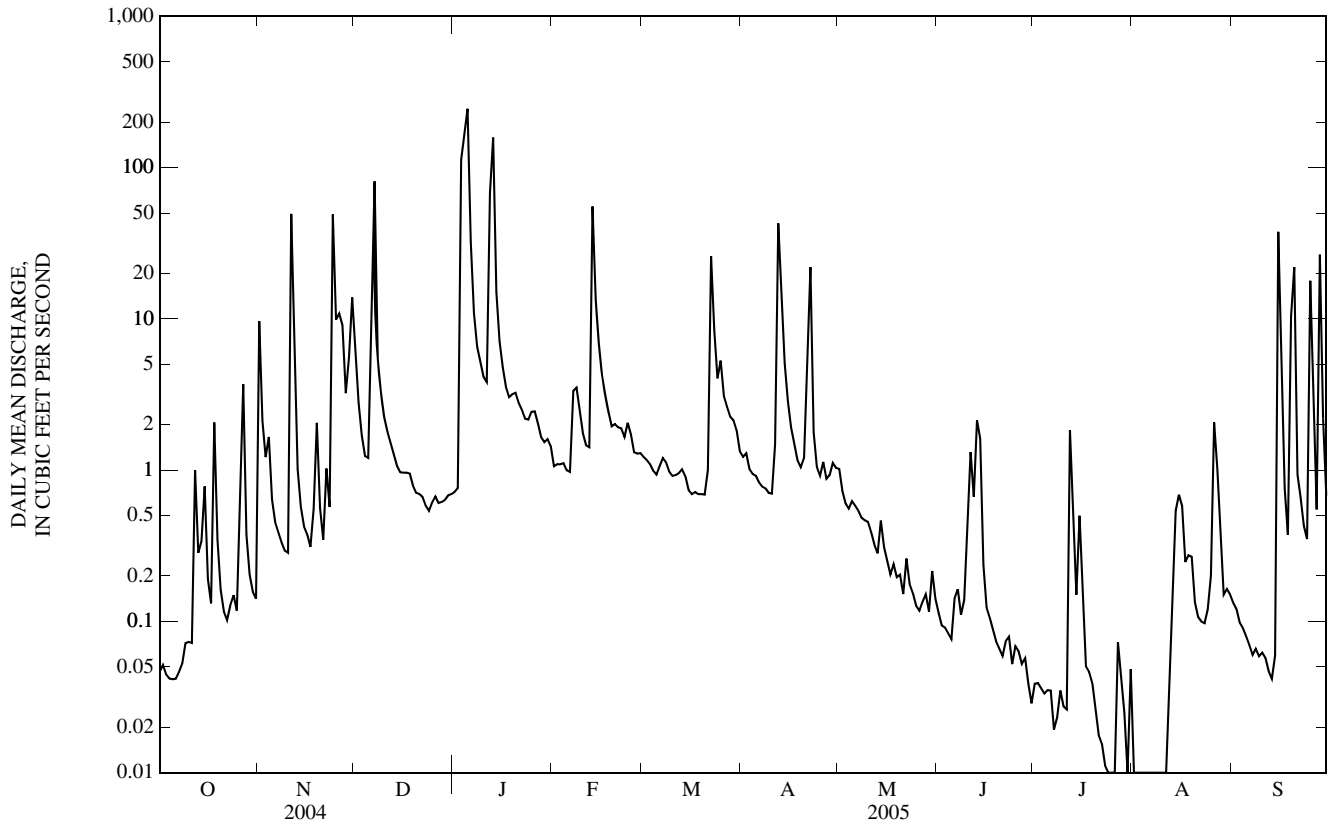
MEAN	1.28	2.50	2.17	7.59	4.31	5.61	3.10	7.60	4.74	1.79	0.51	1.17
MAX	3.21	6.76	5.87	28.3	11.2	13.2	4.47	26.2	13.7	6.29	1.26	4.32
(WY)	(2002)	(2004)	(2002)	(2005)	(1999)	(1998)	(1998)	(2004)	(1998)	(2004)	(2004)	(2005)
MIN	0.22	0.13	0.36	0.13	1.58	1.03	0.39	0.34	0.28	0.12	0.09	0.01
(WY)	(2000)	(2000)	(2001)	(2000)	(2003)	(2000)	(2000)	(2005)	(2005)	(2005)	(2003)	(1999)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1997 - 2005
ANNUAL MEAN	6.01	4.60	3.54
HIGHEST ANNUAL MEAN			6.03
LOWEST ANNUAL MEAN			1.11
HIGHEST DAILY MEAN	349	May 26	349
LOWEST DAILY MEAN	0.04	Sep 21-23,27,28,30,Oct 3-6	0.00
ANNUAL SEVEN-DAY MINIMUM	0.04	Sep 30	0.00
MAXIMUM PEAK FLOW	---	Unknown	Unknown
MAXIMUM PEAK STAGE	---	7.04	9.93
INSTANTANEOUS LOW FLOW	---	0.00	0.00
ANNUAL RUNOFF (INCHES)	18.42	14.06	10.83
10 PERCENT EXCEEDS	6.9	5.2	4.7
50 PERCENT EXCEEDS	1.1	0.68	0.59
90 PERCENT EXCEEDS	0.08	0.04	0.08

e Estimated

06935755 BONHOMME CREEK NEAR ELLISVILLE, MO—Continued



06935770 BONHOMME CREEK NEAR CLARKSON VALLEY, MO

LOCATION.--Lat 38°39'28", long 90°37'09", St. Louis County, Hydrologic Unit 10300200, on right downstream wingwall of Highway CC Bridge, 0.96 mi south of U.S. Highway 40, 3.3 mi west of State Highway 340, 1.48 mi east of County Highway C, and 1.48 mi upstream from Missouri River.

DRAINAGE AREA.--11.3 mi²

PERIOD OF RECORD.--June 1997 to current year. Annual peaks only for 1972-1974 water years published in WRD MO 1974.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 449.19 ft above National Geodetic Vertical Datum of 1929. Prior to June 1997, at datum 450.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 11, 1979 reached a stage of 20.10 ft, former datum, discharge 5,620 ft³/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	0.79	41	29	4.3	e5.9	4.5	4.7	4.8	2.3	1.7	0.96	1.1
2	0.87	8.2	13	4.5	e6.0	4.4	4.6	4.4	2.2	1.7	0.93	1.1
3	0.78	3.9	e7.0	323	e5.8	4.4	4.6	4.3	2.0	1.7	0.93	1.1
4	0.67	4.3	e5.1	335	e6.0	4.3	4.5	4.2	2.0	1.8	1.1	1.0
5	0.62	3.2	e4.9	820	e5.7	4.2	4.4	4.1	2.0	1.8	2.6	1.0
6	0.67	2.6	13	167	e5.6	4.1	4.3	3.9	1.9	1.7	1.1	0.98
7	0.86	2.4	253	41	14	4.5	4.1	3.9	1.9	1.6	0.93	0.98
8	e0.94	2.3	28	23	25	4.4	4.0	3.8	2.0	1.5	0.93	1.0
9	e1.0	2.1	15	17	21	4.1	4.0	3.8	2.2	1.5	0.90	1.1
10	e0.98	2.0	7.0	14	15	4.1	4.0	3.8	2.3	1.4	1.1	1.1
11	e0.97	163	4.9	12	12	4.1	5.2	3.7	4.1	1.8	0.99	1.1
12	2.5	36	4.4	31	12	4.2	148	3.6	3.9	4.5	0.89	1.1
13	e1.9	5.1	3.9	516	121	4.6	82	3.5	2.9	3.4	1.7	1.1
14	e2.5	3.7	3.6	62	e48	e4.3	20	4.0	4.4	2.1	1.7	2.0
15	5.8	3.2	3.4	26	e23	e3.9	14	3.4	2.6	2.8	2.0	28
16	e1.8	2.9	3.4	19	e13	e3.8	12	3.1	2.1	1.8	2.5	12
17	e1.3	2.8	3.4	e15	e9.6	e4.0	10	3.0	2.0	1.7	1.6	2.1
18	14	3.3	3.3	12	e7.3	e3.9	9.6	3.0	1.8	2.1	1.7	1.5
19	3.8	5.4	3.3	13	e5.9	e3.8	8.9	3.0	1.8	1.9	1.3	6.2
20	2.8	3.8	3.1	17	e6.1	e3.7	8.5	3.2	1.8	1.4	1.2	42
21	2.6	3.1	3.2	15	e5.9	4.4	11	2.9	1.8	1.3	1.1	2.5
22	e2.5	4.7	3.2	e12	e5.6	51	29	3.3	1.8	1.2	1.2	1.6
23	e3.2	4.1	3.2	e10	5.0	36	7.6	3.0	1.8	1.1	0.97	1.4
24	e3.8	164	3.2	e9.9	7.3	21	6.1	2.8	1.8	1.1	0.89	1.3
25	e2.7	52	3.1	e10	5.1	25	5.5	2.6	1.8	1.0	1.1	14
26	5.9	33	3.0	9.5	4.4	16	5.9	2.5	1.8	1.0	5.6	5.7
27	9.6	28	2.9	e9.5	4.3	8.2	5.2	2.6	1.9	1.4	3.1	2.1
28	3.7	14	2.8	e8.9	4.3	5.8	5.1	2.7	1.9	1.1	1.6	18
29	2.8	15	2.9	e8.4	---	5.2	5.4	2.4	1.9	1.00	1.3	5.8
30	2.5	39	3.2	7.7	---	4.9	5.3	2.6	1.8	0.98	1.2	2.1
31	2.5	---	3.8	6.6	---	4.8	---	2.5	---	0.98	1.1	---
MEAN	2.82	21.9	14.4	83.2	14.6	8.57	14.9	3.37	2.22	1.68	1.49	5.40
MAX	14	164	253	820	121	51	148	4.8	4.4	4.5	5.6	42
MIN	0.62	2.0	2.8	4.3	4.3	3.7	4.0	2.4	1.8	0.98	0.89	0.98
IN.	0.29	2.17	1.47	8.49	1.35	0.87	1.47	0.34	0.22	0.17	0.15	0.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

MEAN	3.76	7.79	7.22	21.7	14.6	17.0	9.75	22.6	13.8	5.48	2.58	3.06
MAX	8.87	21.9	14.4	83.2	36.6	40.9	14.9	67.1	28.9	20.5	7.74	7.16
(WY)	(2003)	(2005)	(2005)	(2005)	(1999)	(1998)	(2005)	(2004)	(2000)	(2004)	(2004)	(2003)
MIN	0.79	0.96	0.63	0.96	5.44	3.09	1.72	3.37	2.22	1.08	0.95	0.69
(WY)	(2000)	(2000)	(2001)	(2000)	(2003)	(2000)	(2000)	(2005)	(2005)	(1997)	(2003)	(1999)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

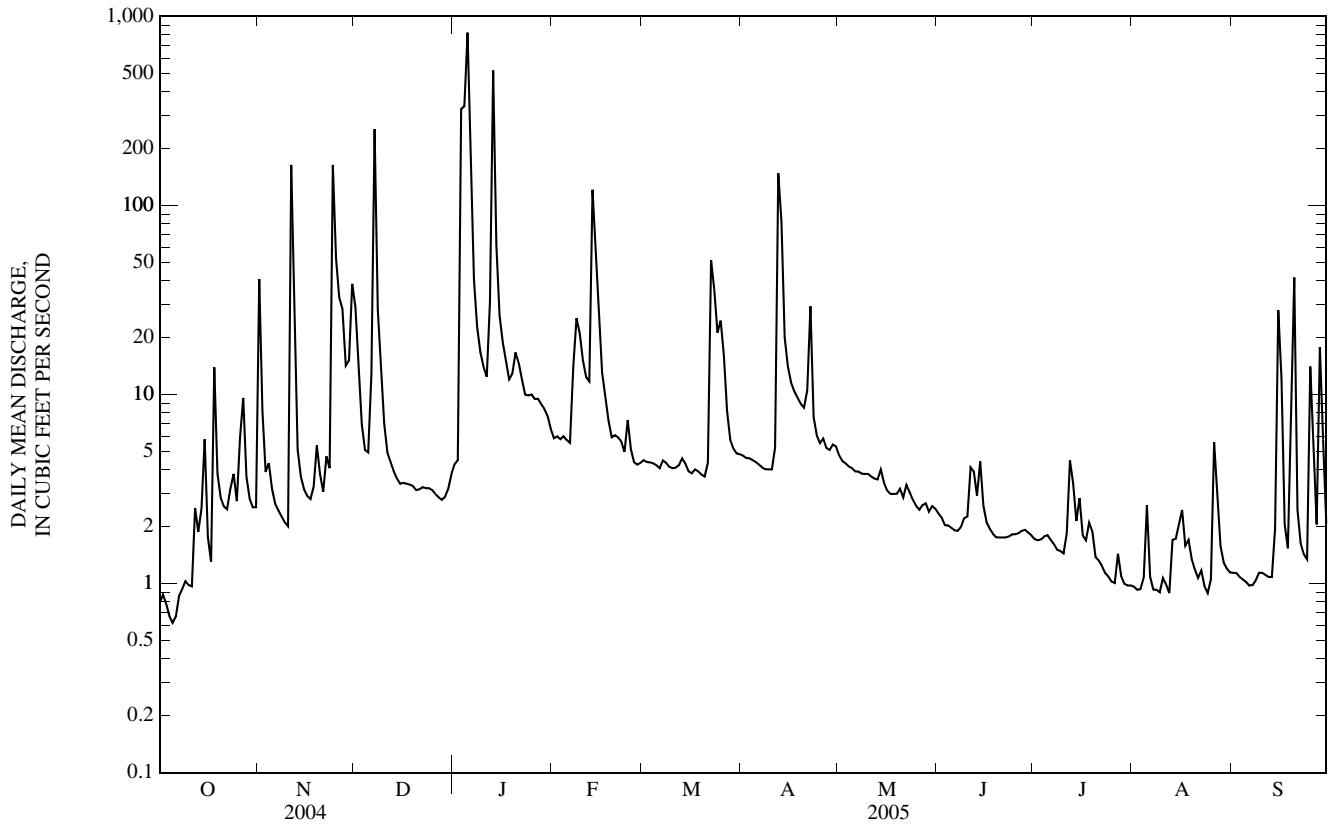
FOR 2005 WATER YEAR

WATER YEARS 1997 - 2005

ANNUAL MEAN	19.6	14.6	10.8
HIGHEST ANNUAL MEAN			19.7
LOWEST ANNUAL MEAN			3.54
HIGHEST DAILY MEAN	529	Jan 4	820
LOWEST DAILY MEAN	0.53	Sep 29	0.62
ANNUAL SEVEN-DAY MINIMUM	0.71	Sep 29	0.75
MAXIMUM PEAK FLOW	---	Unknown	Unknown
MAXIMUM PEAK STAGE	---	17.40	19.62
INSTANTANEOUS LOW FLOW	---	0.60	0.14
ANNUAL RUNOFF (INCHES)	23.65	17.53	13.00
10 PERCENT EXCEEDS	32	19	14
50 PERCENT EXCEEDS	4.8	3.7	2.8
90 PERCENT EXCEEDS	1.8	1.1	0.67

e Estimated

06935770 BONHOMME CREEK NEAR CLARKSON VALLEY, MO—Continued



06935830 CAULKS CREEK AT CHESTERFIELD, MO

LOCATION.--Lat 38°39'17", long 90°35'42", St. Louis County, Hydrologic Unit 10300200, on downstream side of middle pier of Highway CC bridge, 2.0 mi west of State Highway 340, 1.1 mi south of U.S. Route 40, and 1.09 mi upstream of Bonhomme Creek.

DRAINAGE AREA.--17.1 mi².

PERIOD OF RECORD.--July 1996 to current year. Annual peaks only for the 1972-1974 water years published in WRD MO 1974.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 453.98 ft above National Geodetic Vertical Datum of 1929. Prior to July 1996, at datum 450.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for estimated daily discharges and discharges above 1,100 ft³/s, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 11, 1979 reached a stage of 19.97 ft, former datum, discharge 7,940 ft³/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	5.7	53	47	9.5	12	11	9.6	12	7.5	6.7	5.7	e13
2	5.9	34	26	8.5	11	10	9.3	11	7.3	6.7	5.6	e9.3
3	5.8	15	18	393	11	9.8	9.1	10	7.1	6.6	5.6	e8.0
4	5.7	20	15	765	11	9.7	9.2	9.7	7.2	6.7	5.5	e7.6
5	5.4	12	13	1,250	11	9.6	9.1	9.3	7.0	7.2	7.4	e7.3
6	5.3	9.8	23	162	11	9.5	8.9	9.2	7.2	6.5	5.9	8.8
7	5.3	9.0	340	74	17	11	8.9	9.1	8.1	6.5	5.7	6.6
8	6.1	7.9	44	53	37	9.8	8.6	8.9	7.3	6.3	5.8	6.3
9	6.8	7.6	28	40	25	9.2	8.6	8.6	8.2	6.4	5.9	6.5
10	5.6	7.0	20	32	20	9.2	8.5	8.5	7.4	6.3	6.2	6.5
11	5.6	174	17	28	16	8.9	10	8.4	16	7.2	6.3	6.7
12	16	64	15	149	15	8.9	226	8.1	19	35	8.9	6.3
13	14	27	12	1,150	120	8.4	119	8.1	18	19	8.4	5.8
14	12	15	11	112	58	8.1	43	9.9	29	9.0	18	11
15	22	11	10	57	34	8.1	25	8.9	11	8.1	13	132
16	11	10	9.7	41	28	8.1	19	8.2	9.0	12	17	48
17	8.1	9.4	9.3	33	23	8.2	17	8.0	8.0	13	9.7	14
18	28	11	9.3	26	18	8.4	15	8.0	7.5	14	11	9.3
19	17	31	8.9	24	16	8.6	14	7.8	7.2	11	10	12
20	10	16	8.6	24	16	8.1	13	8.3	7.0	8.2	7.9	191
21	8.4	11	8.9	21	14	8.1	20	7.7	6.8	7.2	7.0	18
22	7.8	18	8.2	19	13	49	57	9.8	6.8	6.8	6.8	11
23	9.2	14	8.0	16	12	40	26	8.8	6.7	6.6	6.5	9.2
24	9.0	254	7.8	16	12	20	17	8.1	6.7	6.5	6.2	8.5
25	7.7	78	7.8	15	12	24	15	7.6	6.6	6.3	17	70
26	10	52	7.8	14	11	16	17	7.3	6.8	6.4	48	44
27	35	49	7.6	13	11	13	13	7.5	6.8	11	21	17
28	14	32	7.6	12	11	12	14	8.3	6.7	7.8	10	71
29	9.6	29	7.7	13	---	11	17	7.6	6.6	6.6	8.4	36
30	8.5	57	7.6	14	---	11	17	8.7	6.7	6.3	8.7	15
31	7.7	---	7.6	13	---	10	---	8.1	---	5.9	9.5	---
MEAN	10.6	37.9	24.9	148	21.6	12.8	26.8	8.69	9.11	9.03	10.3	27.2
MAX	35	254	340	1,250	120	49	226	12	29	35	48	191
MIN	5.3	7.0	7.6	8.5	11	8.1	8.5	7.3	6.6	5.9	5.5	5.8
IN.	0.71	2.47	1.68	10.00	1.32	0.86	1.75	0.59	0.59	0.61	0.69	1.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)

MEAN	14.6	24.5	14.4	36.2	33.2	28.8	19.7	40.1	34.2	17.2	11.8	14.3
MAX	28.9	62.0	27.7	148	72.6	78.1	29.2	102	59.3	42.9	20.2	36.7
(WY)	(2003)	(1997)	(2002)	(2005)	(1999)	(1998)	(1998)	(2004)	(1998)	(2004)	(1996)	(2003)
MIN	8.15	6.33	5.76	5.33	11.5	9.70	6.64	8.69	8.40	7.52	7.11	4.33
(WY)	(2000)	(2000)	(1999)	(2000)	(2003)	(2000)	(2000)	(2005)	(1999)	(2002)	(2002)	(1999)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

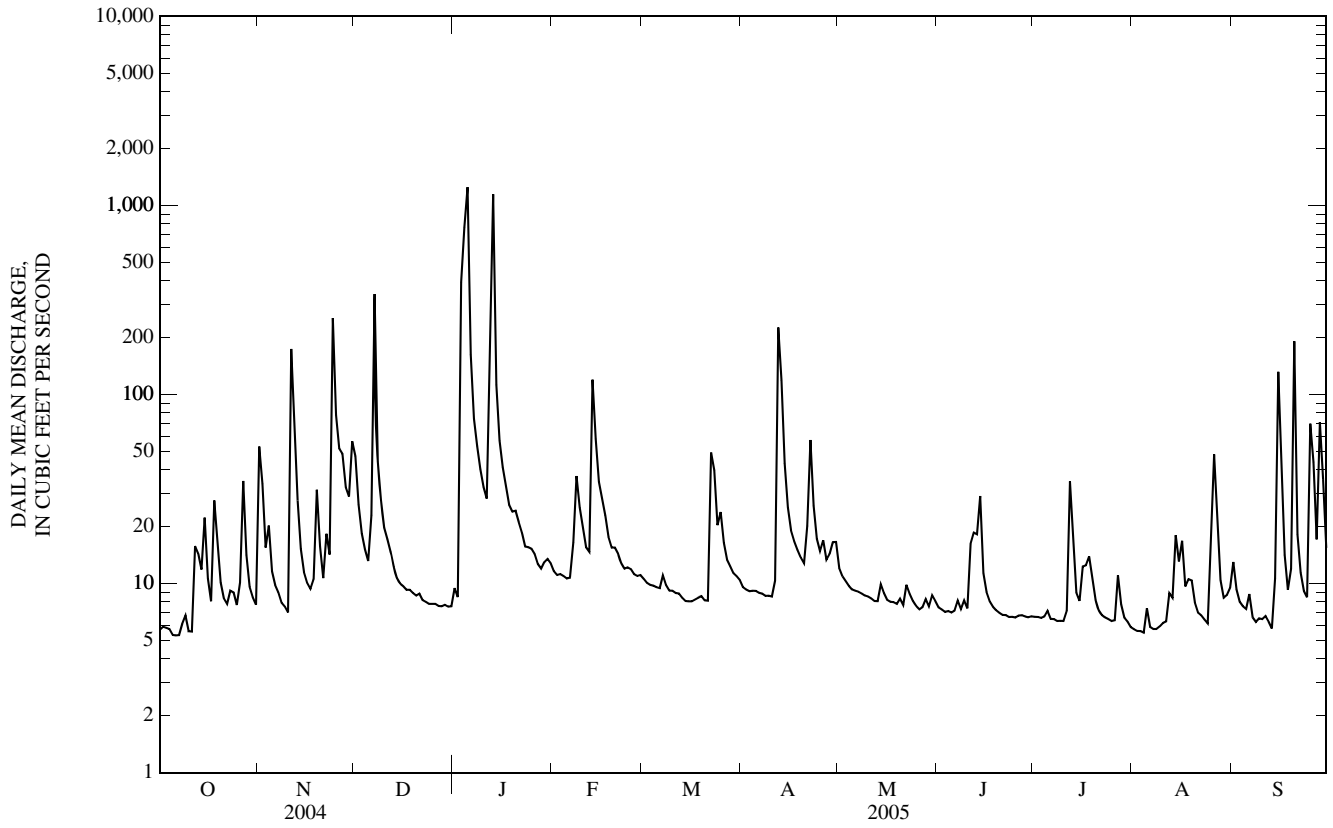
WATER YEARS 1996 - 2005

ANNUAL MEAN	31.8	29.0	23.9
HIGHEST ANNUAL MEAN			32.1
LOWEST ANNUAL MEAN			13.2
HIGHEST DAILY MEAN	807	May 26	1,250
LOWEST DAILY MEAN	5.3	Oct 6,7	5.3
ANNUAL SEVEN-DAY MINIMUM	5.6	Oct 1	5.6
MAXIMUM PEAK FLOW	---	Unknown	Jan 13
MAXIMUM PEAK STAGE	---	13.29	Jan 13
INSTANTANEOUS LOW FLOW	---	5.1	Oct 6,7
ANNUAL RUNOFF (INCHES)	25.30	23.05	18.97
10 PERCENT EXCEEDS	50	40	35
50 PERCENT EXCEEDS	11	9.8	9.3
90 PERCENT EXCEEDS	6.5	6.5	5.5

e Estimated

^a Occurred during period of construction upstream. Verified by field visit.

06935830 CAULKS CREEK AT CHESTERFIELD, MO—Continued



06935850 CREVE COEUR CREEK AT CHESTERFIELD, MO

LOCATION.--Lat 38°38'47", long 90°31'37", in SW ¼ NW ¼ NW ¼ sec.13, T.45 N., R.4 E., St. Louis County, Hydrologic Unit 10300200, on left downstream abutment of Highway 40 bridge, 3.71 mi north of State Highway 100 (Manchester Road), 0.75 mi west of State Highway 141, and 10.33 mi upstream of Missouri River.

DRAINAGE AREA.--5.62 mi².

PERIOD OF RECORD.--June 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 495.20 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for estimated daily discharges and discharges below 1 ft³/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	0.18	38	10	4.8	1.5	1.4	0.86	e1.6	0.29	0.34	0.11	0.45
2	1.0	6.6	3.7	5.7	1.3	1.1	0.74	e1.3	0.30	0.34	0.09	0.38
3	0.14	5.1	2.3	167	e1.6	0.98	0.61	e1.2	e0.29	0.32	0.09	0.37
4	0.14	4.9	1.8	229	1.4	0.91	0.68	e1.1	e0.31	0.33	0.09	0.36
5	0.13	1.1	4.9	341	1.4	0.78	0.52	e1.1	e0.30	0.33	9.9	0.35
6	0.14	0.69	12	21	2.8	0.65	0.51	e1.0	0.49	0.38	0.72	e0.32
7	0.17	0.57	128	6.1	19	3.7	0.55	e0.94	0.41	0.32	0.39	0.29
8	1.1	0.49	6.0	5.0	9.2	0.68	0.44	e0.90	0.68	0.32	0.33	0.31
9	0.54	0.41	3.8	3.1	9.8	0.51	0.43	e0.92	2.1	0.35	0.27	0.29
10	0.26	0.43	3.2	2.5	3.6	0.54	0.47	0.99	1.8	0.32	8.2	0.47
11	0.39	98	3.6	3.8	2.3	0.59	3.8	e0.86	5.9	5.7	2.5	0.47
12	8.6	8.7	1.9	64	2.0	0.54	286	e0.81	0.87	19	1.6	0.42
13	1.3	2.0	1.1	299	71	0.46	39	e0.78	8.3	2.4	13	0.36
14	7.9	1.0	0.76	12	9.6	0.36	7.4	5.3	6.6	0.90	7.9	8.8
15	3.9	0.81	0.90	5.2	4.9	0.35	3.3	0.62	0.67	0.76	9.2	125
16	0.32	0.76	0.76	4.3	2.7	0.35	2.3	0.45	0.47	0.70	4.6	8.6
17	0.22	0.87	0.67	2.6	1.7	0.44	1.9	0.48	0.39	0.56	0.99	1.7
18	22	6.6	0.77	1.9	1.4	0.34	1.8	0.54	0.39	3.0	4.5	0.83
19	1.5	11	0.54	4.4	1.2	0.39	2.0	0.72	0.39	1.5	1.4	24
20	0.41	1.9	0.65	4.7	1.6	0.33	3.8	3.1	0.39	0.49	0.62	84
21	0.30	0.89	0.52	2.7	1.2	0.40	4.0	0.46	0.39	0.45	0.41	2.8
22	0.42	7.8	0.46	1.7	1.1	41	23	3.9	0.40	0.42	0.40	1.4
23	2.5	1.8	0.40	1.4	1.1	8.5	4.1	0.68	0.41	0.30	0.33	1.1
24	0.45	130	0.33	1.5	2.0	4.8	1.4	0.35	0.50	0.30	0.27	0.93
25	0.25	e20	0.35	1.2	1.2	6.2	1.1	0.32	0.47	0.23	13	51
26	8.3	e8.6	0.39	1.4	1.1	1.8	4.9	e0.34	0.44	0.69	25	8.2
27	7.1	e11	0.41	1.3	1.0	1.2	1.4	0.69	0.39	4.8	2.6	2.1
28	0.49	e3.3	0.48	e1.2	2.1	0.98	5.1	1.2	0.41	0.27	0.84	28
29	0.34	e5.5	0.53	e2.7	---	0.82	5.0	0.32	0.38	0.15	1.3	5.5
30	0.35	45	0.49	e2.4	---	0.89	2.8	0.49	0.35	0.13	2.2	1.5
31	0.35	---	0.60	1.9	---	0.71	---	0.39	---	0.13	0.48	---
MEAN	2.30	14.1	6.20	38.9	5.74	2.67	13.7	1.09	1.18	1.49	3.66	12.0
MAX	22	130	128	341	71	41	286	5.3	8.3	19	25	125
MIN	0.13	0.41	0.33	1.2	1.0	0.33	0.43	0.32	0.29	0.13	0.09	0.29
IN.	0.47	2.81	1.27	7.99	1.06	0.55	2.71	0.22	0.23	0.31	0.75	2.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
MEAN	4.79	7.22	3.98	10.0	6.83	7.46	6.67	12.4	10.9	5.24	2.82	4.20
MAX	9.55	15.7	10.3	38.9	14.9	15.5	13.7	26.2	20.5	14.2	5.45	15.1
(WY)	(2003)	(2004)	(2002)	(2005)	(1998)	(1998)	(2005)	(2004)	(2000)	(2004)	(1998)	(2003)
MIN	2.14	0.77	0.93	0.85	3.38	2.67	1.62	1.09	1.18	0.54	0.44	0.33
(WY)	(1998)	(2000)	(2001)	(2000)	(2003)	(2005)	(2000)	(2005)	(2005)	(2002)	(2001)	(1999)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

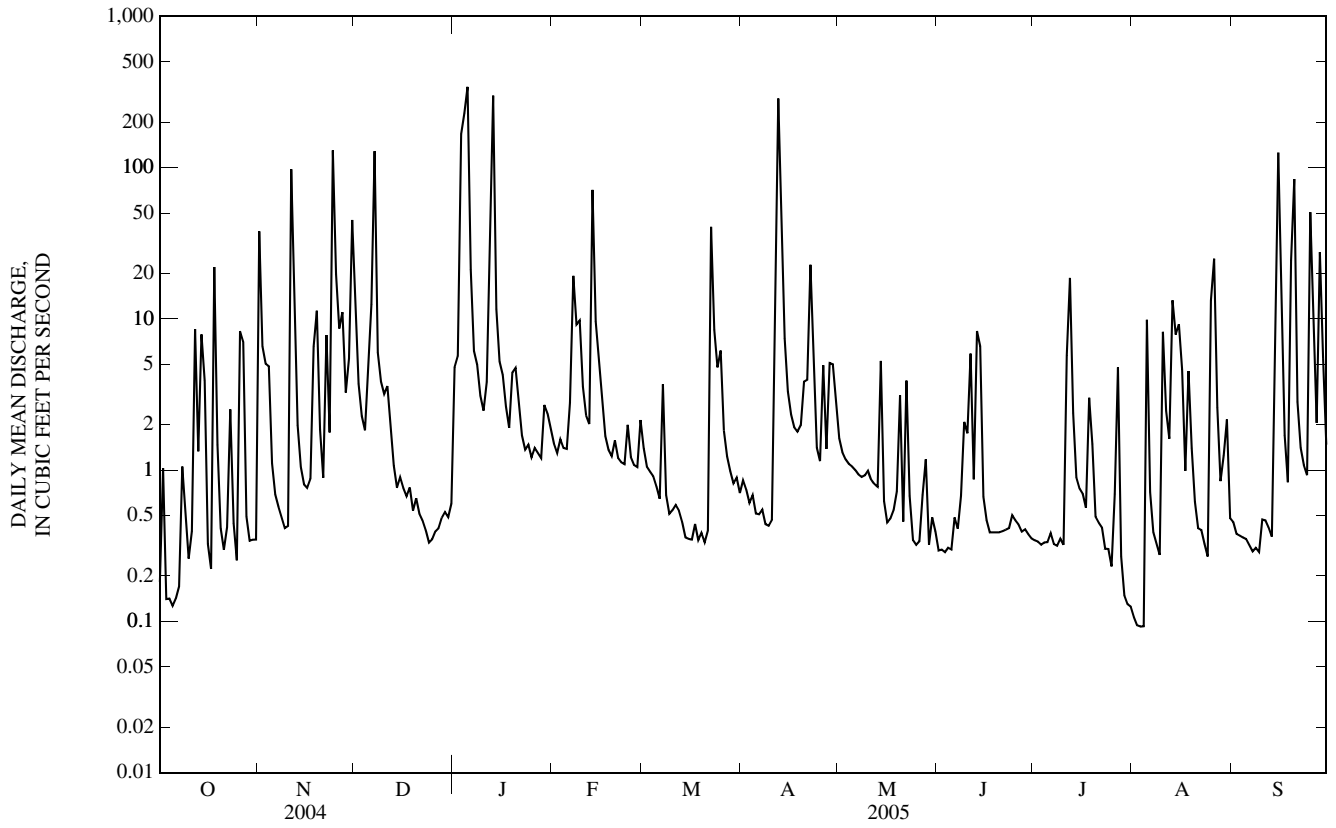
WATER YEARS 1997 - 2005

ANNUAL MEAN	8.53	8.59	6.94
HIGHEST ANNUAL MEAN			8.59
LOWEST ANNUAL MEAN			4.54
HIGHEST DAILY MEAN	237	Jan 4	341
LOWEST DAILY MEAN	0.13	Oct 5	0.09
ANNUAL SEVEN-DAY MINIMUM	0.16	Sep 25	0.11
MAXIMUM PEAK FLOW	---		1,710 ^a
MAXIMUM PEAK STAGE	---		15.03
INSTANTANEOUS LOW FLOW	---		0.09
ANNUAL RUNOFF (INCHES)	20.67		20.76
10 PERCENT EXCEEDS	11		9.4
50 PERCENT EXCEEDS	1.2		1.0
90 PERCENT EXCEEDS	0.35		0.32

e Estimated

^a From rating extended above 509 ft³/s on basis of indirect measurement.

06935850 CREVE COEUR CREEK AT CHESTERFIELD, MO—Continued



06935890 CREVE COEUR CREEK NEAR CREVE COEUR, MO

LOCATION.--Lat 38°40'58", long 90°29'20", St. Louis County, Hydrologic Unit 10300200, 200 ft downstream of Highway 340 bridge, 2.10 mi west of Interstate 270, 2.95 mi north U.S. Route 40, and 5.80 mi upstream of Missouri River.

DRAINAGE AREA.--22.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1997 to current year. Annual peaks only for 1972-1974 water years published in WRD MO 1974.

REVISED RECORDS.--WDR MO-03-1: 1997-2002 (P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 449.43 ft above National Geodetic Vertical Datum of 1929. Prior to June 1997, at datum 451.10 ft above National Geodetic Vertical Datum of 1929.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 11, 1979 reached a stage of 14.78 ft, former datum, discharge 4,820 ft³/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	2.8	128	46	19	11	10	8.0	7.6	4.9	3.1	1.2	2.6
2	5.0	29	15	8.5	11	8.9	8.2	6.3	4.2	3.0	1.1	2.3
3	3.5	16	11	716	13	8.8	7.7	5.8	4.0	2.5	1.1	2.0
4	2.7	23	8.5	577	11	8.8	8.2	5.6	4.2	2.6	1.0	1.9
5	2.6	9.1	11	1,680	10	8.4	7.8	5.4	3.8	2.9	27	1.8
6	2.8	6.7	34	126	11	7.9	7.6	5.0	6.2	2.9	4.9	1.7
7	2.9	5.9	537	32	52	16	7.9	4.6	6.1	3.0	2.1	1.6
8	5.0	5.0	26	27	56	9.3	7.4	4.3	4.9	2.6	1.6	1.6
9	6.1	4.7	15	20	38	7.8	7.1	4.5	22	2.5	1.3	1.6
10	3.0	4.6	12	18	20	7.6	7.1	5.2	17	2.4	5.5	1.6
11	2.7	322	15	20	15	7.7	16	4.3	77	14	7.3	1.7
12	45	42	9.7	e198	14	7.6	e1,000	4.1	22	77	5.5	1.7
13	15	12	7.8	e1,300	259	7.2	e171	4.0	22	13	65	1.8
14	27	8.2	6.9	e84	46	6.9	e40	18	36	4.9	44	25
15	28	7.0	7.0	e35	23	6.7	e17	6.1	6.9	26	41	357
16	4.6	6.4	7.2	e31	17	6.7	12	4.1	4.9	7.2	37	28
17	2.9	6.1	6.9	e23	14	6.8	10	3.8	4.3	3.6	7.2	e5.1
18	102	20	7.3	20	13	6.9	9.2	e4.3	3.9	11	16	e3.5
19	18	56	6.9	26	12	6.8	8.5	e5.1	3.7	9.9	7.9	e91
20	9.3	12	6.5	22	13	6.3	17	12	3.4	3.3	4.0	e210
21	7.2	8.1	7.4	18	12	6.4	20	4.8	3.4	2.3	3.1	12
22	6.3	28	6.9	15	11	136	121	15	3.4	2.0	2.6	7.7
23	13	12	6.1	12	11	48	19	7.9	3.4	1.8	2.5	e6.1
24	8.9	540	5.7	12	13	21	9.5	5.7	3.2	1.9	2.2	e5.1
25	5.9	62	6.0	13	11	33	7.4	5.0	3.3	1.7	71	e146
26	35	30	6.3	13	9.9	15	16	5.2	5.3	1.9	96	25
27	38	37	6.0	11	9.7	12	7.5	5.2	3.2	19	16	8.0
28	11	16	6.3	10	12	11	19	8.1	3.2	3.3	5.7	92
29	7.5	35	7.1	19	---	9.8	17	5.4	3.0	1.9	4.2	29
30	6.1	105	7.1	16	---	9.4	15	5.7	2.8	1.3	5.8	7.9
31	5.7	---	7.3	13	---	8.3	---	5.4	---	1.2	3.3	---
MEAN	14.0	53.2	28.0	166	26.7	15.3	54.3	6.24	9.85	7.60	15.9	36.1
MAX	102	540	537	1,680	259	136	1,000	18	77	77	96	357
MIN	2.6	4.6	5.7	8.5	9.7	6.3	7.1	3.8	2.8	1.2	1.0	1.6
IN.	0.74	2.70	1.47	8.68	1.27	0.80	2.75	0.33	0.50	0.40	0.84	1.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

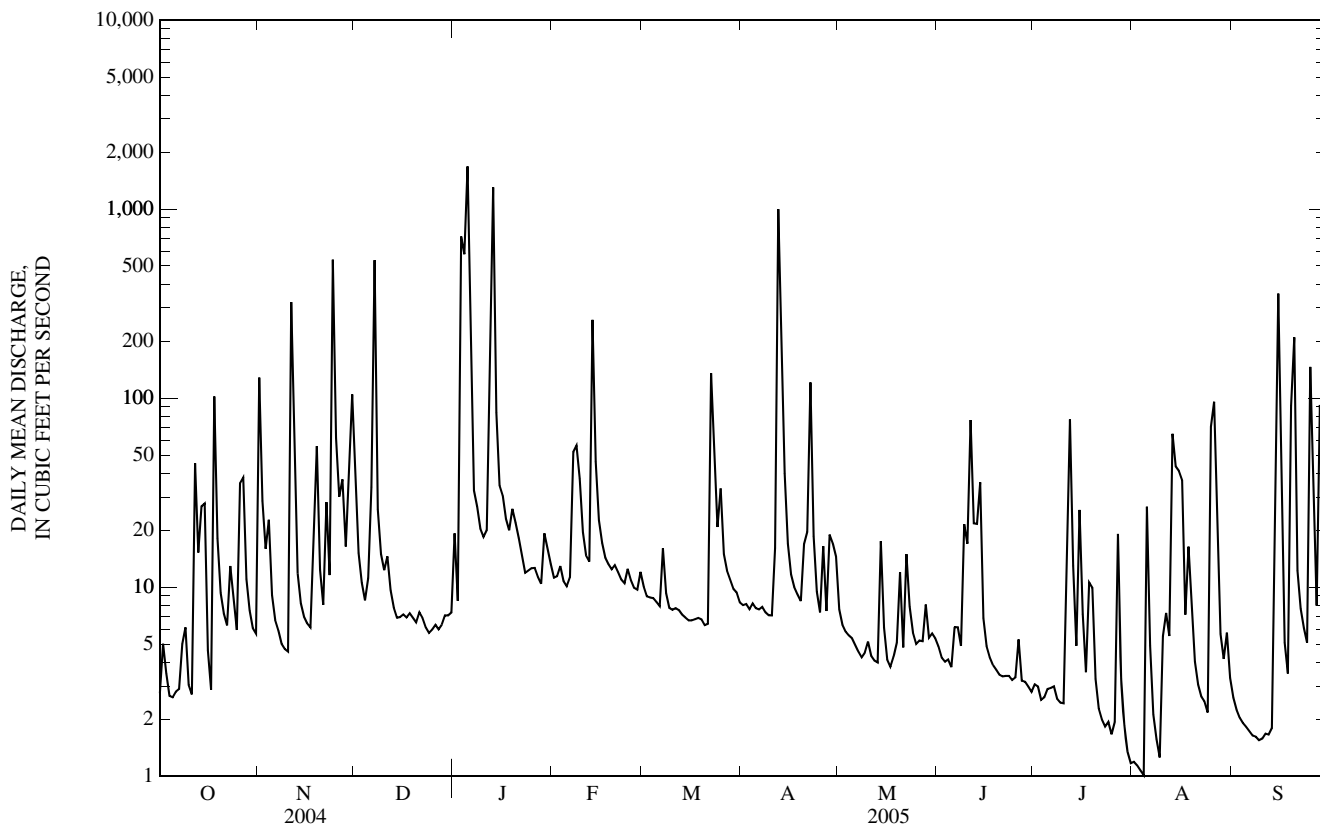
MEAN	17.3	25.6	15.6	45.5	33.2	35.8	28.1	51.2	52.6	19.5	12.4	16.3
MAX	36.2	67.4	35.3	166	80.0	96.2	54.3	118	103	67.5	28.6	63.6
(WY)	(2003)	(2004)	(2002)	(2005)	(1999)	(1998)	(2005)	(2004)	(2003)	(2004)	(1998)	(2003)
MIN	6.51	4.16	5.43	3.40	10.3	9.31	6.56	6.24	9.85	4.05	1.70	1.16
(WY)	(1998)	(2000)	(1999)	(2000)	(2002)	(2000)	(2000)	(2005)	(2005)	(1997)	(2001)	(1999)

06935890 CREVE COEUR CREEK NEAR CREVE COEUR, MO—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL MEAN	38.9		36.1		29.6	
HIGHEST ANNUAL MEAN					39.8	
LOWEST ANNUAL MEAN					13.3	
HIGHEST DAILY MEAN	933	Jan 4	1,680	Jan 5	2,050	Jun 24, 2000
LOWEST DAILY MEAN	2.6	Sep 29, Oct 5	1.0	Aug 4	0.20	Sep 17, 1999
ANNUAL SEVEN-DAY MINIMUM	2.8	Sep 25	1.3	Jul 29	0.30	Sep 15, 1999
MAXIMUM PEAK FLOW	---		3,160 ^a	Jan 5	6,560 ^a	Jun 24, 2000
MAXIMUM PEAK STAGE	---		13.68	Jan 5	16.43	Jun 24, 2000
INSTANTANEOUS LOW FLOW	---		0.96	Aug 2-5, 10	0.16	Sep 17, 1999
ANNUAL RUNOFF (INCHES)	24.09		22.30		18.30	
10 PERCENT EXCEEDS	49		44		41	
50 PERCENT EXCEEDS	9.1		7.9		6.3	
90 PERCENT EXCEEDS	3.7		2.6		2.2	

^e Estimated

^a From rating extended above 588 ft³/s on basis of indirect measurement.



06935890 CREVE COEUR CREEK NEAR CREVE COEUR, MO—Continued
(Metropolitan St. Louis Sewer District Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1997 to current year.

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

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Carbon dioxide water, unfltrd mg/L (00405)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
OCT 05...	1505	Environmental	2.7	6.3	7.8	76	7.8	884	13.9	330	92.5	24.7
12...	1003	Environmental	64	4.4	8.0	81	7.8	597	14.9	260	69.2	20.4
MAR 22...	1404	Environmental	249	4.7	10.0	85	7.8	880	7.1	300	79.9	23.4
22...	1410	Blank	--	--	--	--	--	--	--	--	.04	<.008
APR 20...	1110	Environmental	7.8	13	7.9	88	7.6	926	19.2	380	107	26.8
JUN 20...	1545	Environmental	3.6	11	5.4	66	7.6	882	24.5	330	90.7	24.1
AUG 10...	0827	Environmental	1.1	10	3.3	42	7.4	657	26.0	230	65.0	15.9

Date	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd incrm. titr., mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd incrm. titr., mg/L (00450)	Carbonate, wat unfltrd incrm. titr., mg/L (00447)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd 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)	Phosphorus, water, unfltrd mg/L (00665)	COD, high level, water, unfltrd mg/L (00340)	E coli, m-TEC MF, water, col/100 mL (31633)
OCT 05...	216	217	265	<1	<10	.44	<.04	.50	E.007n	.05	.12	30	20k
12...	163	165	201	<1	93	.91	.05	.96	.034	.13	.28	30	2,000k
MAR 22...	168	167	204	<1	265	1.3	.24	.41	.018	.03	.34	30	4,800
22...	--	--	--	--	<10	<.10	<.04	<.06	<.008	<.02	<.04	<10	--
APR 20...	244	246	300	<1	11	.54	.11	.52	.044	<.02	.09	10	110
JUN 20...	211	209	255	<1	<10	.60	<.04	.56	.027	.03	.14	20	250
AUG 10...	146	146	178	<1	16	.54	.06	.38	.015	.08	.15	20	320

Date	Fecal coliform, M-FC 0.7 μ MF col/100 mL (31625)	Aluminum, water, fltrd, μ g/L (01106)	Arsenic, water, fltrd, μ g/L (01000)	Beryllium, water, fltrd, μ g/L (01010)	Cadmium, water, fltrd, μ g/L (01025)	Chromium, water, fltrd, μ g/L (01030)	Copper, water, fltrd, μ g/L (01040)	Iron, water, fltrd, μ g/L (01046)	Lead, water, fltrd, μ g/L (01049)	Manganese, water, fltrd, μ g/L (01056)	Mercury water, unfltrd recoverable, μ g/L (71900)	Nickel, water, fltrd, μ g/L (01065)	Selenium, water, fltrd, μ g/L (01145)
OCT 05...	130k	E1n	2.1	<.06	E.03n	<.8	2.2	E4n	<.08	94.6	<.01	2.46	.6
12...	8,000	<2	2.3	<.06	.11	E.6n	2.5	21	<.08	95.5	E.01n	2.48	1.0
MAR 22...	2,200k	2	1.2	<.06	.17	.9	3.5	8	<.08	345	.02	5.47	1.0
22...	--	<2	<.2	<.06	<.04	<.8	<.4	<6	<.08	<.6	<.01	<.06	<.4
APR 20...	220	2	2.0	<.06	E.04n	<.8	1.6	16	<.08	331	<.01	3.24	1.0
JUN 20...	330	2	3.5	<.06	E.02n	<.8	1.3	<6	<.08	455	<.01	5.54	.8
AUG 10...	840k	2	3.9	<.06	E.02n	<.8	1.7	<6	E.05n	400	<.01	4.26	.7

06935890 CREVE COEUR CREEK NEAR CREVE COEUR, MO--Continued

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

Date	Silver, water, fltrd, µg/L (01075)	Zinc, water, fltrd, µg/L (01090)
OCT		
05...	<.2	1.2
12...	<.2	2.0
MAR		
22...	<.2	2.5
22...	<.2	<.6
APR		
20...	<.2	1.4
JUN		
20...	<.2	.7
AUG		
10...	<.2	1.0

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

06935955 FEE FEE CREEK NEAR BRIDGETON, MO

LOCATION.--Lat 38°43'41", long 90°26'51", St. Louis County, Hydrologic Unit 10300200, on left abutment of old bridge at McKelvey Road, 0.17 mi west of Interstate 270, 0.92 mi north of Dorsett Road, and 0.65 mi upstream of Creve Coeur Creek.

DRAINAGE AREA.--11.7 mi².

PERIOD OF RECORD.--July 1996 to current year. Annual peaks only for 1972-1974 water years published in WRD MO 1974.

REVISED RECORDS.--WDR MO-03-1: 1996-2002(P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 451.99 ft above National Geodetic Vertical Datum of 1929. Prior to 1996 datum of gage 450.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 11, 1979 reached a stage of 21.62 ft, former datum, discharge 3,810 ft³/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	e3.5	e17	e8.7	e5.9	5.3	3.3	3.9	3.4	1.7	1.1	0.77	1.0
2	e1.0	e3.4	e4.4	e21	5.6	3.0	3.5	3.5	1.3	1.7	0.68	0.88
3	e0.58	e15	e4.2	e140	6.8	3.3	3.3	2.9	1.2	0.85	0.68	0.81
4	e0.58	e7.5	e4.0	e434	e5.6	3.6	3.4	2.9	0.88	1.1	1.4	0.76
5	0.55	e4.7	e63	e280	e5.3	3.7	3.5	3.1	0.89	1.7	1.3	0.80
6	e0.54	e3.3	e9.5	53	e7.7	3.7	3.3	3.1	1.8	0.95	1.1	0.78
7	e0.55	e3.0	e200	22	e38	8.9	3.3	3.1	1.9	0.82	0.84	0.67
8	e6.0	e2.6	e7.2	16	e9.1	3.5	3.0	2.9	14	1.0	0.83	0.71
9	1.6	e2.7	e3.5	13	e18	3.0	3.0	6.3	140	0.69	0.62	0.86
10	0.78	e123	e3.0	11	e9.0	3.8	2.9	4.9	13	0.68	0.51	0.86
11	11	e39	e3.5	11	6.8	4.7	10	2.6	320	41	0.75	1.3
12	51	e9.5	e2.5	108	6.5	3.5	31	2.7	15	53	3.1	1.3
13	7.2	e6.8	e2.3	e228	114	3.2	12	2.6	23	5.0	55	1.3
14	21	e4.9	e2.2	e9.5	14	3.3	3.7	16	21	1.9	15	31
15	10	e3.7	e2.4	e6.5	7.1	3.3	3.0	3.6	3.1	84	55	99
16	1.7	e3.4	e2.4	e7.0	5.3	3.1	2.8	1.9	2.1	6.1	26	5.0
17	1.2	e3.7	e2.3	e7.5	4.4	3.9	2.7	1.9	1.7	2.4	3.1	2.1
18	44	e63	e2.3	e8.8	4.1	2.8	2.7	1.5	1.5	38	11	1.8
19	4.0	e21	e2.3	e11	3.7	3.2	2.5	1.6	1.4	5.8	2.9	41
20	2.1	e4.4	e2.4	e6.8	4.1	2.6	19	18	1.3	2.0	1.5	89
21	1.7	e8.3	e2.4	e6.7	3.7	2.8	7.9	2.1	1.8	1.4	1.3	3.1
22	1.5	e31	e2.4	e6.1	3.3	92	52	6.2	19	1.1	1.2	1.8
23	7.2	e4.4	e2.3	e6.3	3.3	32	12	1.9	18	0.92	0.90	1.4
24	1.9	e185	e2.4	e7.0	5.8	13	4.7	1.3	1.1	0.90	0.76	1.1
25	1.3	e11	e2.5	e6.0	3.8	15	4.6	1.4	1.2	0.75	31	137
26	e11	e18	e3.2	e4.7	3.3	6.3	17	1.2	1.3	3.0	33	11
27	e5.1	e52	e3.7	e5.5	3.3	5.2	4.5	1.3	0.99	14	4.2	3.4
28	e1.7	e5.9	e3.3	e5.1	6.8	4.7	10	4.1	1.2	1.4	1.8	69
29	e1.5	e35	e3.0	e23	---	4.2	9.6	1.2	1.1	0.91	1.3	7.7
30	e1.8	e82	e2.6	e8.4	---	4.2	5.8	1.9	1.4	0.85	2.7	2.6
31	e1.6	---	e3.1	e4.2	---	3.9	---	1.2	---	0.94	1.3	---
MEAN	6.62	25.8	11.7	47.8	11.2	8.28	8.35	3.62	20.5	8.90	8.44	17.3
MAX	51	185	200	434	114	92	52	18	320	84	55	137
MIN	0.54	2.6	2.2	4.2	3.3	2.6	2.5	1.2	0.88	0.68	0.51	0.67
IN.	0.65	2.46	1.15	4.72	1.00	0.82	0.80	0.36	1.95	0.88	0.83	1.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)

MEAN	10.6	18.0	8.18	19.0	18.3	17.0	14.7	22.6	23.8	10.7	9.08	9.81
MAX	20.2	49.1	17.4	47.8	39.6	34.2	26.6	56.9	51.4	22.0	15.7	25.7
(WY)	(2002)	(1997)	(2002)	(2005)	(1997)	(1998)	(1998)	(2004)	(2003)	(2004)	(1997)	(2003)
MIN	1.86	1.47	3.09	2.99	5.15	6.58	5.30	3.62	5.54	2.83	2.53	1.31
(WY)	(2000)	(2000)	(1999)	(2000)	(2002)	(2000)	(2000)	(2005)	(2004)	(2000)	(2001)	(2004)

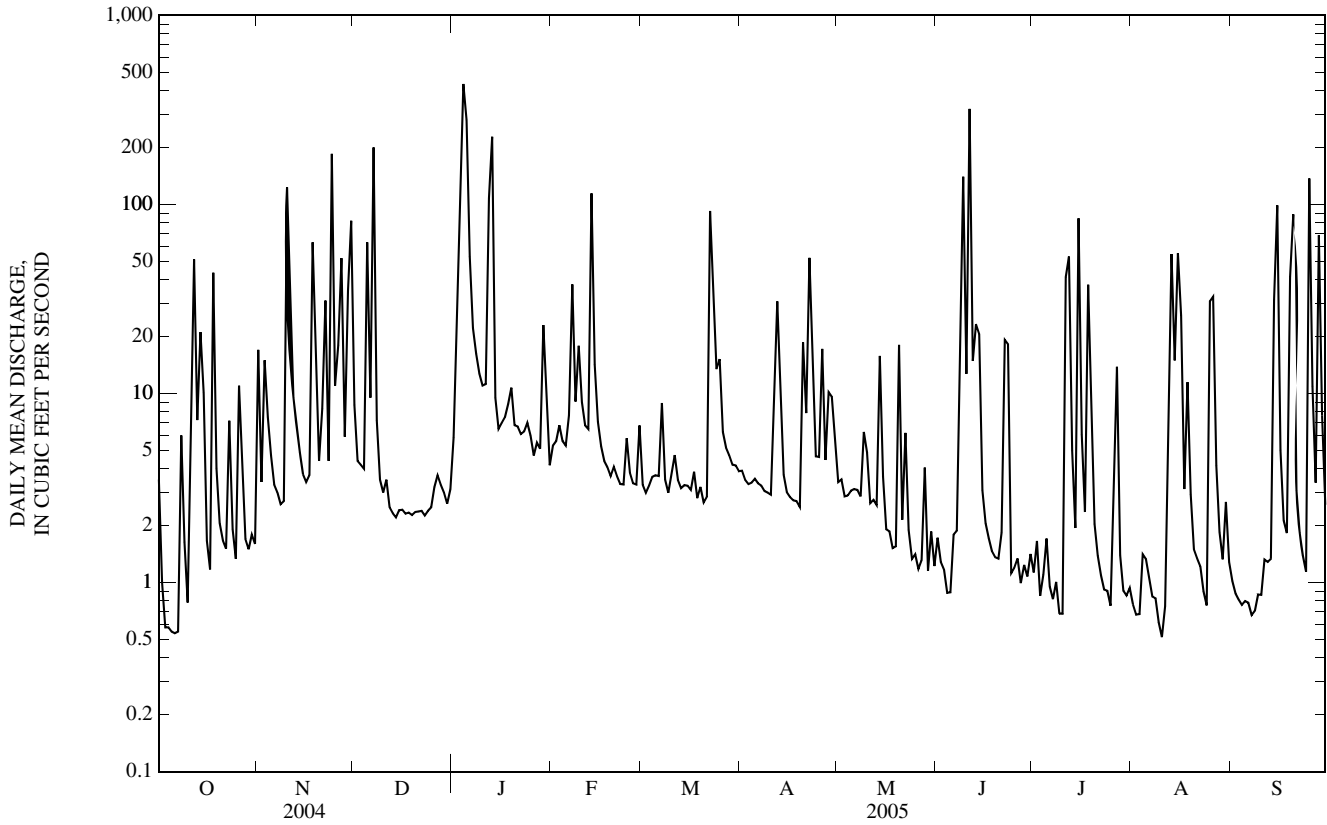
06935955 FEE FEE CREEK NEAR BRIDGETON, MO—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1996 - 2005	
ANNUAL MEAN	18.3		14.9		15.0	
HIGHEST ANNUAL MEAN					19.1	2004
LOWEST ANNUAL MEAN					8.31	2000
HIGHEST DAILY MEAN	570	May 27	434	Jan 4	665	Feb 7, 1999
LOWEST DAILY MEAN	0.54	Oct 6	0.51	Aug 10	0.28	Sep 22, 1999
ANNUAL SEVEN-DAY MINIMUM	0.99	Sep 24	0.77	Sep 3	0.30	Sep 21, 1999
MAXIMUM PEAK FLOW	---		2,870 ^a	Jan 13	3,730 ^b	Jun 26, 2003
MAXIMUM PEAK STAGE	---		16.17	Jan 13	18.30	Jun 26, 2003
INSTANTANEOUS LOW FLOW	---		0.41	Aug 10	0.26	Aug 11, 2003
ANNUAL RUNOFF (INCHES)	21.27		17.26		17.44	
10 PERCENT EXCEEDS	33		31		30	
50 PERCENT EXCEEDS	4.0		3.4		2.9	
90 PERCENT EXCEEDS	1.3		0.93		0.94	

^c Estimated

^a From rating extended above 1,130 ft³/s on basis of indirect measurement.

^b Discharge determined by indirect measurement of peak flow.



06935965 MISSOURI RIVER AT ST. CHARLES, MO

LOCATION.--Lat 38°47'20", long 90°28'15", SE ¼ sec. 29, T.47 N., R.5 E., St. Louis County, Hydrologic Unit 10300200, on right bank approximately ¼ mi downstream from State Highway A, on the St. Charles Sand Company property, and at mile 27.9.

DRAINAGE AREA.--524,000 mi². The 3,959 mi² in Great Divide basin are not included.

PERIOD OF RECORD.--April 1, 2000 to current year. April 15, 1932 to October 1944 recording gage; Feb. 16, 1984 to Sept. 30, 1997 stage only operated by U.S.G.S.; Oct. 1, 1997 to April 1, 2000, stage only operated by U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage 413.472 ft above North American Vertical Datum of 1988. Prior to March 4, 1994 datum of gage was 413.585 ft above National Geodetic Vertical Datum of 1929.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 2-3, 1993 reached a stage of 40.04 ft. by levels of good highwater mark.

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	49,700	40,500	109,000	32,800	74,600	69,500	50,400	64,200	55,800	85,700	42,200	89,700
2	48,800	51,800	98,800	32,000	72,300	71,700	49,000	60,800	56,400	81,500	48,400	83,800
3	49,100	88,200	92,200	39,200	71,400	74,600	49,600	58,200	57,900	78,800	49,000	70,700
4	47,900	94,400	85,900	77,500	72,200	72,900	47,900	55,400	57,300	79,900	45,800	62,400
5	45,600	94,600	79,100	168,000	73,600	68,700	47,900	54,300	60,000	77,200	43,500	57,100
6	44,200	87,900	73,200	241,000	73,800	63,700	46,700	52,700	73,100	72,300	42,000	52,900
7	43,100	83,100	80,200	235,000	73,600	55,300	47,400	50,300	137,000	68,500	40,700	49,400
8	42,600	68,500	104,000	201,000	74,100	47,300	45,500	48,800	155,000	71,800	39,400	49,200
9	42,100	55,300	111,000	166,000	75,300	46,200	45,000	48,000	150,000	72,900	39,000	49,900
10	45,500	49,500	106,000	148,000	82,700	55,700	45,700	47,100	142,000	68,800	39,100	48,300
11	53,000	57,000	95,800	132,000	90,800	58,800	45,200	45,800	150,000	63,500	40,500	45,400
12	60,800	61,700	85,500	113,000	87,900	53,000	46,900	44,800	154,000	59,200	39,800	43,600
13	55,600	63,400	76,500	133,000	86,800	45,500	65,300	45,700	156,000	57,200	39,800	42,200
14	49,400	58,800	69,600	179,000	116,000	41,600	83,300	54,200	181,000	57,400	40,200	42,300
15	47,000	56,300	67,100	175,000	158,000	37,700	93,900	67,800	207,000	54,300	40,600	46,900
16	46,100	52,400	63,100	157,000	177,000	36,000	98,300	123,000	201,000	52,200	42,600	51,800
17	45,600	51,800	60,600	136,000	170,000	37,800	91,200	146,000	171,000	50,700	46,500	49,700
18	43,900	51,000	61,200	117,000	159,000	43,200	80,300	126,000	149,000	48,400	53,800	45,800
19	42,100	53,800	58,600	101,000	147,000	47,800	70,300	114,000	134,000	45,800	57,900	43,400
20	39,000	56,100	58,100	94,800	128,000	43,700	64,600	106,000	126,000	46,100	65,300	46,600
21	36,000	55,100	58,100	93,200	113,000	36,800	62,800	98,500	122,000	48,400	64,400	75,000
22	34,400	44,900	56,700	92,500	103,000	34,100	66,300	92,200	119,000	50,500	58,600	72,500
23	32,800	36,000	49,600	91,100	97,100	35,600	84,300	84,400	116,000	51,500	60,500	59,700
24	31,900	35,700	47,600	89,100	92,700	38,500	81,200	76,000	114,000	50,900	75,300	58,900
25	31,200	66,200	47,800	83,000	89,200	45,000	89,600	80,500	111,000	48,600	72,900	58,700
26	31,200	99,800	46,400	77,800	86,600	46,100	93,600	84,700	108,000	44,800	61,500	54,400
27	32,200	104,000	47,300	76,800	84,100	41,400	86,600	76,900	105,000	46,300	70,000	58,500
28	35,200	117,000	41,500	76,400	74,700	39,200	81,400	71,100	104,000	48,100	96,500	74,400
29	33,200	123,000	37,000	76,200	---	38,800	72,900	67,200	100,000	47,000	101,000	71,700
30	33,800	117,000	37,700	76,100	---	40,800	67,200	63,400	90,800	42,900	102,000	63,300
31	37,100	---	36,200	76,200	---	49,600	---	58,500	---	40,700	94,100	---
MEAN	42.260	69.160	69.080	115.700	100.200	48.920	66.680	73.110	122.100	58.450	56.550	57.270
MAX	60.800	123.000	111.000	241.000	177.000	74.600	98.300	146.000	207.000	85.700	102.000	89.700
MIN	31.200	35.700	36.200	32.000	71.400	34.100	45.000	44.800	55.800	40.700	39.000	42.200
IN.	0.09	0.15	0.15	0.25	0.20	0.11	0.14	0.16	0.26	0.13	0.12	0.12

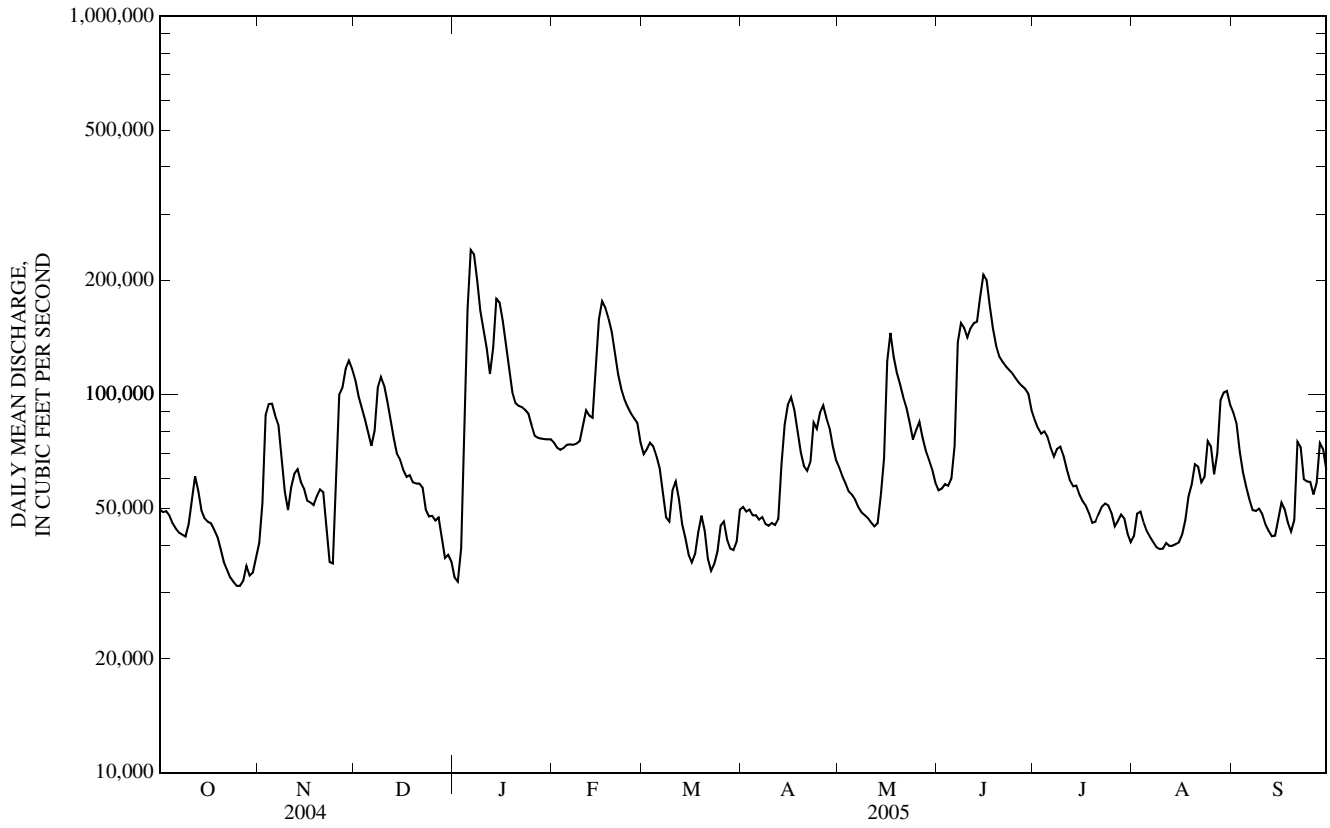
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

	2000	2001	2002	2003	2004	2005
MEAN	46,550	50,470	45,010	51,960	62,570	73,560
MAX	60,810	69,160	69,080	115,700	100,200	129,000
(WY)	(2002)	(2005)	(2005)	(2005)	(2005)	(2001)
MIN	38,560	40,760	29,200	25,290	28,700	39,360
(WY)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 2000 - 2005
ANNUAL MEAN	74,330	73,010	68,780
HIGHEST ANNUAL MEAN			87,470
LOWEST ANNUAL MEAN			45,820
HIGHEST DAILY MEAN	201,000	Mar 8	241,000
LOWEST DAILY MEAN	31,200	Oct 25	31,200
ANNUAL SEVEN-DAY MINIMUM	32,500	Oct 23	32,500
MAXIMUM PEAK FLOW	---		247,000
MAXIMUM PEAK STAGE	---		27.09
INSTANTANEOUS LOW FLOW	---		30,900
ANNUAL RUNOFF (INCHES)	1.93	1.89	1.78
10 PERCENT EXCEEDS	119,000	122,000	126,000
50 PERCENT EXCEEDS	63,400	61,200	52,200
90 PERCENT EXCEEDS	39,900	40,500	34,400

06935965 MISSOURI RIVER AT ST. CHARLES, MO—Continued



06935972 MISSOURI RIVER BELOW ST. CHARLES, MO
(Metropolitan St. Louis Sewer District Network)

LOCATION.--Lat 38°49'28", long 90°26'42", St. Louis County, Hydrologic Unit 10300200, at Blanchette Landing, downstream of Highway 370 at mile 24.5.

DRAINAGE AREA.--530,100 mi².

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)	Carbon dioxide water, unfltrd mg/L (00405)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)				
Date			ANC, wat unfltrd, end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, incrm. titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, incrm. titr., field, mg/L (00450)	Carbonate, wat unfltrd, incrm. titr., field, mg/L (00447)	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)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	COD, high level, water, unfltrd mg/L (00340)	E coli, m-TEC MF, water, col/100 mL (31633)	
OCT 18...	1540	Environmental														
APR 06...	1325	Environmental														
13...	1100	Environmental														
MAY 02...	1350	Environmental														
JUN 06...	1350	Environmental														
12...	1340	Environmental														
JUL 18...	1330	Environmental														
AUG 01...	1320	Environmental														
14...	1345	Environmental														
OCT 18...	175	173	211	<1	83	.67	<.04	1.23	E.006n	.10	.25	<10	290			
APR 06...	164	167	204	<1	74	.81	<.04	.89	E.004n	.06	.20	20	100			
13...	165	166	203	<1	109	1.1	<.04	.98	E.007n	.04	.08	10	1,100			
MAY 02...	160	160	195	<1	324d	1.4	<.04	2.65	E.004n	.12	.51	<10+	760			
JUN 06...	180	180	220	<1	152	1.0	<.04	2.57	.008	.13	.34	20	140k			
12...	121	127	154	<1	900d	2.5	<.04	1.90	E.005n	.06	1.04	50	720k			
JUL 18...	179	182	215	3	46	.59	<.04	1.30	E.006n	.11	.18	20	100			
AUG 01...	192	197	E231	E4	87	.80	<.04	.61	.009	.09	.21	20	20			
14...	173	172	210	<1	83d	.67	<.04	.59	E.006n	.10	.21	20	80			

0935972 MISSOURI RIVER BELOW ST. CHARLES, MO—Continued

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

Date	Fecal coli-form, M-FC 0.7 μ MF col/100 mL (31625)	Aluminum, water, fltrd, μ g/L (01106)	Arsenic, water, fltrd, μ g/L (01000)	Beryllium, water, fltrd, μ g/L (01010)	Cadmium, water, fltrd, μ g/L (01025)	Chromium, water, fltrd, μ g/L (01030)	Copper, water, fltrd, μ g/L (01040)	Iron, water, fltrd, μ g/L (01046)	Lead, water, fltrd, μ g/L (01049)	Manganese, water, fltrd, μ g/L (01056)	Mercury, water, unfltrd recover-able, μ g/L (71900)	Nickel, water, fltrd, μ g/L (01065)	Selenium, water, fltrd, μ g/L (01145)
OCT 18...	400	Mn	3.0	<.06	E.03n	<.8	2.0	<6	<.08	2.8	<.01	2.47	1.7
APR 06...	140	4	2.5	<.06	.04	2.0	1.7	7	.41	1.6	<.01	5.73	2.3
13...	1,100	2	2.5	<.06	E.03n	<.8	1.6	E4n	<.08	1.9	E.01n	2.58	2.3
MAY 02...	570	4	2.7	<.06	E.03n	1.1	2.1	<6	.15	E.4n	.01	1.42	2.4
JUN 06...	<20b	3	3.6	<.06	E.04n	1.2	2.1	<6	.24	<.6	E.01n	3.58	2.6
12...	1,000	3	1.8	<.06	E.02n	<.8	2.1	6	<.08	E.3n	.04	3.52	1.0
JUL 18...	44	5	4.3	<.06	E.04n	<.8	2.9	<6	<.08	.9	<.01	3.45	2.3
AUG 01...	28	5	4.4	<.06	E.03n	<.8	2.4	E5n	<.08	.8	<.01	2.90	2.3
14...	160k	9	4.5	<.06	E.03n	<.8	1.8	<6	E.05n	E.6n	<.01	4.06	1.6

Date	Silver, water, fltrd, μ g/L (01075)	Zinc, water, fltrd, μ g/L (01090)
OCT 18...	<.2	1.0
APR 06...	<.2	.8
13...	<.2	E.6n
MAY 02...	<.2	1.5
JUN 06...	<.2	.7
12...	<.2	2.6
JUL 18...	<.2	.6
AUG 01...	<.2	.6
14...	<.2	1.0

Remark codes used in this table:

< -- Less than.

E -- Estimated.

M-- Presence verified but not quantified.

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

06935980 COWMIRE CREEK AT BRIDGETON, MO

LOCATION.--Lat 38°45'51", long 90°25'58", St. Louis County, Hydrologic Unit 10300200, on left bank of bridge at Kirchner Brick Co., 1.11 mi west of Interstate 70 and 270 interchange, 1.7 mi south of State Highway 370, 0.16 mi north of County Highway A (St Charles Rock Road), and 6.29 mi upstream of the Missouri River.

DRAINAGE AREA.--3.74 mi².

PERIOD OF RECORD.--May 1997 to current year. Annual peaks only for 1972-1974 water years published in WRD MO 1974.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 464.46 ft above National Geodetic Vertical Datum of 1929. Prior to May 1997, at datum 464.55 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for estimated daily discharges and discharges below 0.5 ft³/s and above 300 ft³/s, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 11, 1979 reached a stage of 13.86 ft, former datum, discharge, 2,500 ft³/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	1.1	28	4.2	4.8	e2.0	1.5	1.2	1.0	0.57	0.21	0.15	0.28
2	0.35	2.4	1.7	8.1	e2.1	1.5	1.2	0.95	0.64	0.18	0.12	1.2
3	0.20	4.5	1.4	119	2.5	1.5	1.2	0.83	0.68	0.17	0.12	0.17
4	0.20	2.4	1.3	144	2.1	1.5	1.2	0.76	0.58	0.33	0.18	0.16
5	0.19	1.0	5.4	136	2.0	1.4	1.2	0.77	0.47	0.30	1.1	0.17
6	0.21	0.92	22	7.5	4.3	1.3	1.2	0.78	0.69	0.16	0.22	0.19
7	0.21	0.90	82	3.7	15	2.8	1.2	0.77	0.53	0.19	0.15	0.17
8	1.7	0.83	2.4	3.2	4.9	1.3	1.1	0.73	4.3	0.12	0.13	0.17
9	0.36	0.79	1.7	2.8	9.0	1.2	1.2	0.79	20	0.11	0.10	0.48
10	0.23	0.79	1.4	2.6	3.1	1.2	1.2	0.75	1.8	0.10	0.09	0.11
11	2.2	47	1.6	3.0	2.3	1.2	3.4	0.66	90	17	4.1	0.10
12	13	2.7	1.1	129	2.1	1.2	8.5	0.58	4.1	17	0.99	0.12
13	1.4	1.2	0.94	129	34	1.3	5.0	0.62	12	1.1	87	0.14
14	8.0	0.99	0.91	5.1	3.8	1.2	1.5	5.6	19	0.43	6.4	17
15	1.8	0.94	0.94	e2.0	2.5	1.2	1.3	0.81	1.0	4.6	38	37
16	0.38	0.94	0.98	e2.1	2.2	1.2	1.3	0.73	0.70	0.58	15	1.4
17	0.36	0.94	0.93	e2.3	1.9	1.6	1.3	0.70	0.62	0.26	0.95	0.58
18	19	9.9	0.92	e2.8	1.8	1.3	1.3	0.68	0.50	14	4.9	2.8
19	0.77	7.4	0.91	3.6	1.7	1.1	1.3	0.77	0.45	1.1	0.78	53
20	0.47	1.3	0.91	2.9	1.8	1.1	1.9	5.1	0.41	0.33	0.48	17
21	0.40	1.1	0.90	2.6	1.7	1.1	1.5	0.62	0.37	0.29	0.45	0.75
22	0.41	6.9	0.91	2.4	1.6	31	13	4.0	0.37	0.25	0.33	0.49
23	2.4	1.4	0.91	e2.6	1.8	7.2	2.6	0.65	0.37	0.24	0.32	0.44
24	0.50	80	0.91	e2.8	2.5	3.1	1.3	0.76	0.36	0.23	0.33	0.44
25	0.50	4.5	1.0	2.5	e1.7	3.5	2.9	0.84	1.4	0.19	26	29
26	11	5.6	1.2	2.3	1.4	1.6	7.0	0.63	0.46	2.4	8.4	2.9
27	1.9	7.3	0.98	2.3	1.5	1.4	1.3	0.79	0.35	3.3	0.95	0.90
28	0.72	1.6	1.1	2.1	2.3	1.3	3.4	1.1	0.37	0.23	0.47	17
29	0.65	8.4	1.7	4.3	---	1.3	3.5	0.61	0.67	0.19	0.36	3.0
30	0.63	16	1.1	2.9	---	1.2	1.5	2.1	1.1	0.16	0.31	0.89
31	0.71	---	2.0	e1.7	---	1.2	---	0.59	---	0.15	0.37	---
MEAN	2.32	8.29	4.72	23.9	4.13	2.63	2.56	1.20	5.50	2.13	6.43	6.27
MAX	19	80	82	144	34	31	13	5.6	90	17	87	53
MIN	0.19	0.79	0.90	1.7	1.4	1.1	1.1	0.58	0.35	0.10	0.09	0.10
IN.	0.72	2.47	1.46	7.38	1.15	0.81	0.76	0.37	1.64	0.66	1.98	1.87

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)
	3.27	6.78	1.44	(2003)	4.02	9.85	0.84	(2004)	2.63	4.75	0.75	(2002)	6.73	23.9	0.84	(2005)	4.62	11.3	1.46	(1999)
	4.02	9.85	0.84	(2004)	2.63	4.75	0.75	(2002)	6.73	23.9	0.84	(2005)	4.62	11.3	1.46	(1999)	4.35	9.35	1.57	(1998)
	6.78	19.8	1.80	(2005)	4.75	11.3	1.46	(2002)	23.9	11.3	1.46	(1999)	4.62	11.3	1.46	(1999)	5.31	12.9	1.66	(2000)
	4.06	10.4	0.73	(1998)	3.63	7.23	1.14	(2002)	2.89	6.27	0.57	(1999)	4.35	9.35	1.57	(1998)	5.31	12.9	1.66	(2000)
	3.27	6.78	1.44	(2003)	4.02	9.85	0.84	(2004)	2.63	4.75	0.75	(2002)	6.73	23.9	0.84	(2005)	4.62	11.3	1.46	(1999)

SUMMARY STATISTICS

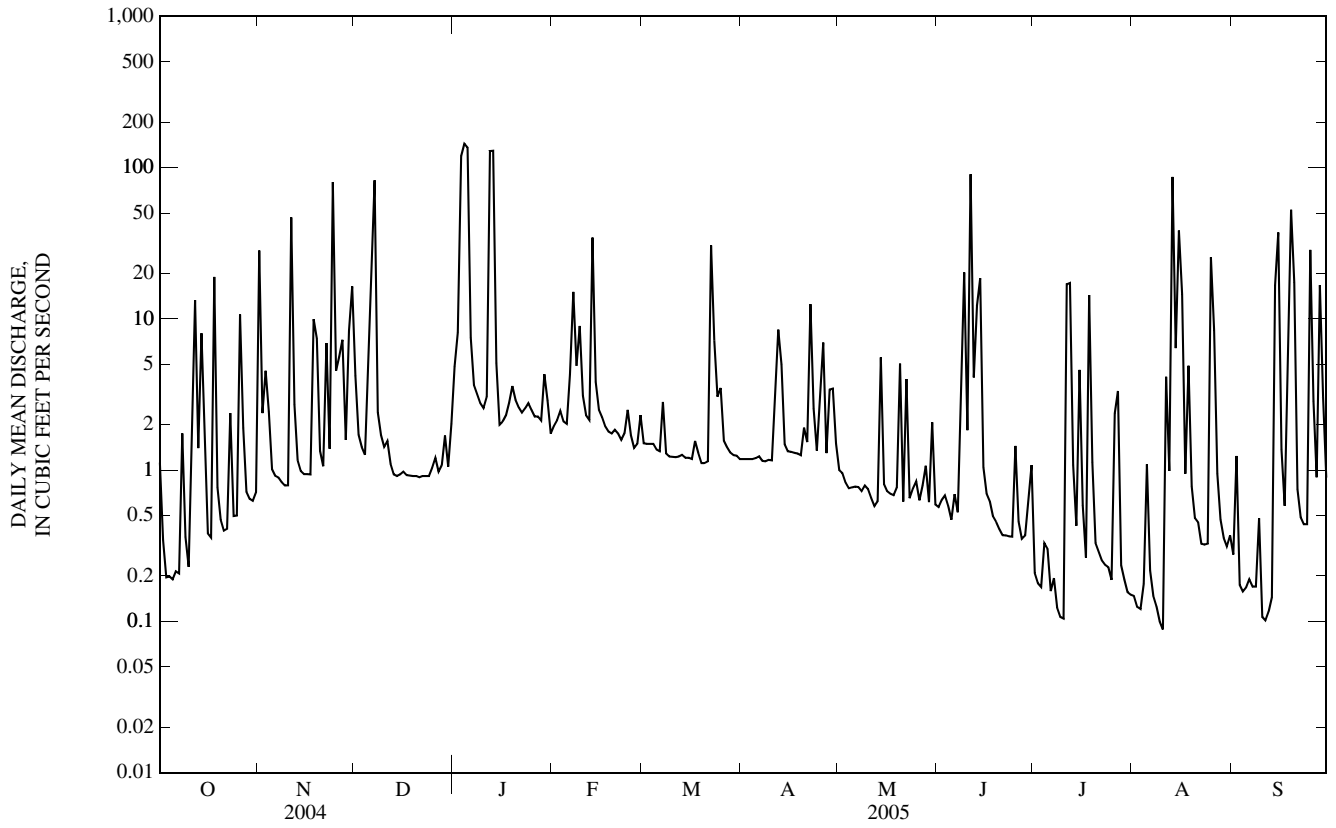
	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1997 - 2005
ANNUAL MEAN	5.23	5.86	4.81
HIGHEST ANNUAL MEAN			5.91
LOWEST ANNUAL MEAN			2.63
HIGHEST DAILY MEAN	178	Jan 4	240
LOWEST DAILY MEAN	0.19	Oct 5	0.05
ANNUAL SEVEN-DAY MINIMUM	0.35	Oct 1	0.07
MAXIMUM PEAK FLOW	---	2,500 ^a	3,490 ^b
MAXIMUM PEAK STAGE	---	13.99	16.04
INSTANTANEOUS LOW FLOW	---	0.07	0.04
ANNUAL RUNOFF (INCHES)	19.04	21.26	17.49
10 PERCENT EXCEEDS	7.9	9.4	8.0
50 PERCENT EXCEEDS	1.1	1.2	0.85
90 PERCENT EXCEEDS	0.58	0.23	0.20

e Estimated

^a From rating extended above 100 ft³/s on basis of indirect measurement.

^b Discharge determined by indirect measurement of peak flow.

06935980 COWMIRE CREEK AT BRIDGETON, MO—Continued



06935997 MILL CREEK NEAR FLORISSANT, MO

LOCATION.--Lat 38°50'54", long 90°17'10", St. Louis County, Hydrologic Unit 10300200, on right downstream wingwall of Old Jamestown Road bridge, 2.50 mi west of U.S. 367 and 67 (Lewis and Clark Blvd.), 2.08 mi north of U.S. Route 67 (Lindbergh Blvd.), and 1.70 mi upstream of the Missouri River.

DRAINAGE AREA.--2.12 mi².

PERIOD OF RECORD.--May 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 432.34 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for estimated daily discharges, which are 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	0.21	2.6	1.5	0.76	1.3	1.1	0.97	0.95	0.34	0.21	0.11	0.19
2	0.24	0.71	0.88	0.77	1.4	1.1	0.96	0.88	0.29	0.17	0.10	0.18
3	0.18	0.70	0.72	11	1.4	1.1	0.92	0.85	0.28	0.17	0.09	0.18
4	0.18	0.81	0.66	60	1.3	1.1	0.92	0.78	0.26	0.21	0.09	0.21
5	0.18	0.45	1.0	54	1.3	1.1	0.93	0.75	0.25	0.20	0.10	0.18
6	0.25	0.38	3.2	4.1	1.5	1.0	1.0	0.76	0.24	0.17	0.11	0.17
7	0.21	0.35	49	2.3	4.1	1.2	1.0	0.70	0.25	0.16	0.09	0.15
8	0.55	0.28	1.4	2.0	2.2	1.0	0.99	0.67	0.48	0.15	0.09	0.13
9	0.40	0.22	1.1	1.9	2.0	0.97	0.97	0.68	1.9	0.13	0.09	0.13
10	0.35	0.22	0.93	1.7	1.4	0.99	0.98	0.66	0.73	0.13	0.08	0.13
11	0.33	4.3	0.89	1.8	1.4	1.0	1.1	0.63	5.9	0.62	0.71	0.14
12	0.98	0.85	0.81	58	1.3	1.0	1.3	0.60	1.2	1.3	0.18	0.13
13	0.93	0.45	0.75	99	7.9	0.91	1.0	0.56	1.8	0.34	7.6	0.12
14	1.3	0.37	0.72	3.2	2.1	0.89	0.84	0.71	2.9	0.22	1.0	0.74
15	1.1	0.32	0.72	2.2	1.6	0.87	0.80	0.52	0.81	0.27	0.51	1.7
16	0.58	0.32	0.73	e1.8	1.4	0.87	0.85	0.51	0.55	0.23	23	0.34
17	0.52	0.30	0.72	e1.4	1.3	0.84	0.87	0.49	0.45	0.17	0.48	0.23
18	3.4	0.53	0.72	e1.2	1.3	0.91	0.82	0.47	0.34	0.37	0.36	0.20
19	0.54	0.95	0.69	2.0	1.3	0.96	0.81	0.46	0.31	0.27	0.26	5.6
20	0.40	0.42	0.74	1.8	1.3	0.90	0.93	1.7	0.30	0.19	0.24	3.4
21	0.37	0.35	0.81	1.7	1.3	0.90	0.93	0.51	0.29	0.18	0.17	0.47
22	0.38	0.78	0.78	1.6	1.2	6.1	1.9	0.50	0.27	0.15	0.22	0.33
23	0.91	0.45	0.78	1.5	1.2	1.6	1.2	0.48	0.25	0.13	0.19	0.28
24	0.53	25	0.78	1.5	1.3	1.1	1.1	0.41	0.23	0.13	0.12	0.27
25	0.44	1.6	0.75	1.5	1.3	1.1	1.1	0.38	0.52	0.12	2.7	2.0
26	1.7	0.87	0.72	1.5	1.2	1.1	1.4	0.37	0.31	0.14	1.5	0.66
27	0.91	1.3	0.71	1.4	1.2	1.1	1.0	0.37	0.27	0.21	0.55	0.37
28	0.59	0.75	0.75	1.4	1.3	0.90	1.1	0.43	0.25	0.11	0.35	2.8
29	0.65	1.3	0.76	1.6	---	0.84	1.2	0.35	0.23	0.12	0.35	0.76
30	0.67	2.6	0.76	1.5	---	0.94	1.0	0.44	0.21	0.11	0.25	0.40
31	0.64	---	0.76	1.4	---	0.97	---	0.35	---	0.11	0.22	---
MEAN	0.67	1.68	2.46	10.6	1.74	1.18	1.03	0.61	0.75	0.23	1.35	0.75
MAX	3.4	25	49	99	7.9	6.1	1.9	1.7	5.9	1.3	23	5.6
MIN	0.18	0.22	0.66	0.76	1.2	0.84	0.80	0.35	0.21	0.11	0.08	0.12
IN.	0.36	0.89	1.34	5.75	0.86	0.64	0.54	0.33	0.39	0.13	0.74	0.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

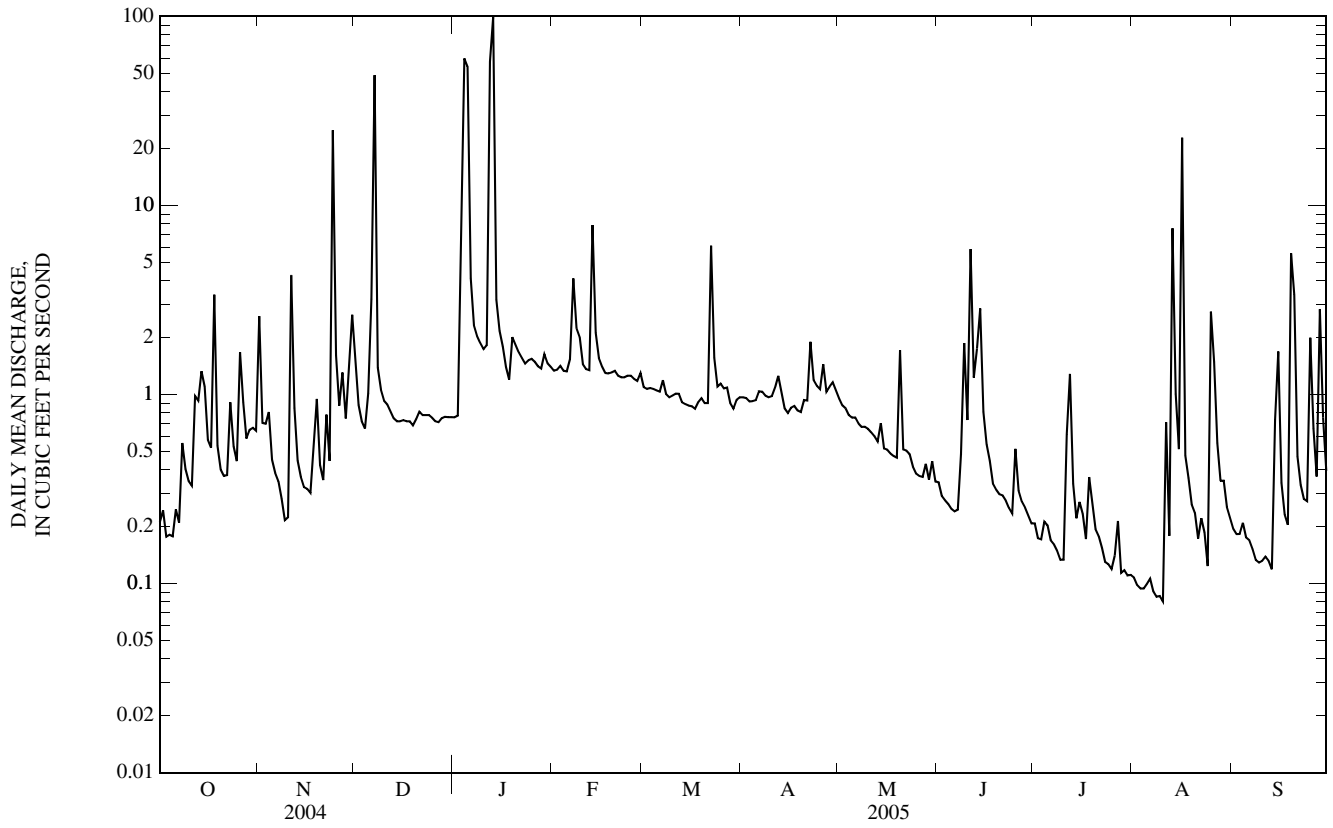
MEAN	1.03	1.14	0.94	3.04	2.12	1.74	2.01	3.93	2.63	1.06	1.01	0.71
MAX	3.05	2.34	2.46	10.6	6.73	4.56	5.02	11.3	5.92	3.28	1.72	1.11
(WY)	(2001)	(2002)	(2005)	(2005)	(1999)	(1998)	(1998)	(2002)	(1998)	(1998)	(1998)	(2002)
MIN	0.24	0.32	0.42	0.30	1.03	0.57	0.52	0.46	0.72	0.23	0.34	0.22
(WY)	(1998)	(2000)	(2001)	(2000)	(2003)	(2000)	(2000)	(2001)	(2001)	(2005)	(2003)	(2004)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1997 - 2005
ANNUAL MEAN	1.82	1.93	1.78
HIGHEST ANNUAL MEAN			2.65
LOWEST ANNUAL MEAN			1.18
HIGHEST DAILY MEAN			215
LOWEST DAILY MEAN	0.15	0.08	0.03
ANNUAL SEVEN-DAY MINIMUM	0.16	0.09	0.05
MAXIMUM PEAK FLOW	---	1,530 ^a	Unknown
MAXIMUM PEAK STAGE	---	7.92	10.53
INSTANTANEOUS LOW FLOW	---	0.08	0.02
ANNUAL RUNOFF (INCHES)	11.67	12.35	11.43
10 PERCENT EXCEEDS	2.1	1.8	2.3
50 PERCENT EXCEEDS	0.84	0.75	0.51
90 PERCENT EXCEEDS	0.21	0.17	0.17

e Estimated

^a From rating extended above 80.2 ft³/s on basis of indirect measurement.

06935997 MILL CREEK NEAR FLORISSANT, MO—Continued



MISSOURI RIVER BASIN

06936475 COLDWATER CREEK NEAR BLACK JACK, MO

LOCATION.--Lat 38°49'05", long 90°15'04", in NE ¼ SE ¼ NW ¼ sec.17, T.47 N., R.7 E., St. Louis County, Hydrologic Unit 10300200, on right downstream abutment of Old Jamestown Road bridge, 0.36 mi south of U.S. Route 67 (Lindbergh Blvd.), 1.1 mi west of Highway 367 (Lewis and Clark Blvd.), and 3.8 mi upstream of the Missouri River.

DRAINAGE AREA.--40.4 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR MO-03-1: 1997-2002 (P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage unknown.

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

REVISIONS.--The maximum discharge for the 1996 water year has been revised to 4,590 ft³/s, July 29, gage height 9.62 ft. This supersedes figure published in WDR-MO-98-1.

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	2.8	191	69	26	12	14	10	7.1	4.8	5.4	4.8	3.9
2	9.7	34	21	20	11	11	10	6.1	4.6	5.8	4.1	3.8
3	3.8	20	16	846	20	11	9.9	6.1	4.5	3.1	5.5	3.8
4	3.2	39	13	712	12	11	11	6.1	4.5	5.9	11	3.3
5	3.5	8.6	23	1,850	11	10	9.7	5.8	4.1	6.6	20	3.4
6	2.6	5.5	62	186	13	9.6	11	5.7	3.7	3.7	8.5	3.5
7	2.5	4.5	740	46	92	26	10	5.5	7.6	3.0	4.3	3.1
8	13	3.6	33	33	84	12	9.6	5.3	26	2.9	4.3	4.1
9	11	3.4	21	25	65	10	11	5.2	346	3.1	3.3	4.3
10	4.0	3.1	17	21	24	9.5	8.5	11	96	2.8	3.5	3.7
11	2.9	370	23	25	18	10	14	5.6	364	49	8.5	6.9
12	100	41	12	93	17	9.7	77	4.8	59	185	21	4.2
13	41	10	9.4	2,210	316	8.8	32	4.7	62	22	251	3.2
14	52	6.9	8.4	90	56	8.8	12	29	134	8.5	116	119
15	45	5.5	8.0	40	31	8.7	9.1	8.7	11	21	33	216
16	7.9	5.2	8.6	29	26	8.7	8.6	4.7	6.8	15	594	16
17	3.6	5.1	7.9	29	21	9.0	8.1	4.5	6.1	4.6	16	5.3
18	184	23	8.2	28	19	13	8.2	4.3	5.2	39	26	7.6
19	16	78	6.3	32	17	8.4	7.5	4.5	4.8	28	14	71
20	6.8	11	5.5	27	18	8.2	7.6	77	4.2	5.0	6.8	366
21	4.7	6.2	6.2	20	16	8.4	19	9.0	4.5	3.6	5.5	9.7
22	3.7	48	6.2	15	14	318	101	11	4.3	3.5	4.9	6.0
23	37	10	6.1	12	13	62	24	9.0	4.9	4.1	4.8	4.4
24	8.0	616	6.1	13	16	24	9.3	5.5	4.7	3.7	4.3	3.5
25	3.6	66	6.1	13	14	51	6.7	5.0	91	5.0	139	267
26	84	26	6.2	12	12	19	49	4.7	18	6.9	85	46
27	37	61	6.4	11	12	15	12	7.0	5.8	37	21	7.9
28	7.9	21	6.1	9.9	25	14	13	12	6.0	7.8	7.8	201
29	4.5	64	6.6	27	---	13	20	8.1	4.3	4.8	5.6	48
30	3.1	151	6.6	22	---	12	17	5.7	5.2	3.7	7.2	7.8
31	2.9	---	5.4	15	---	12	---	6.7	---	4.1	4.8	---
MEAN	23.0	64.6	38.1	211	35.9	24.7	18.5	9.53	43.6	16.2	46.6	48.4
MAX	184	616	740	2,210	316	318	101	77	364	185	594	366
MIN	2.5	3.1	5.4	9.9	11	8.2	6.7	4.3	3.7	2.8	3.3	3.1
IN.	0.66	1.78	1.09	6.02	0.93	0.71	0.51	0.27	1.20	0.46	1.33	1.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)

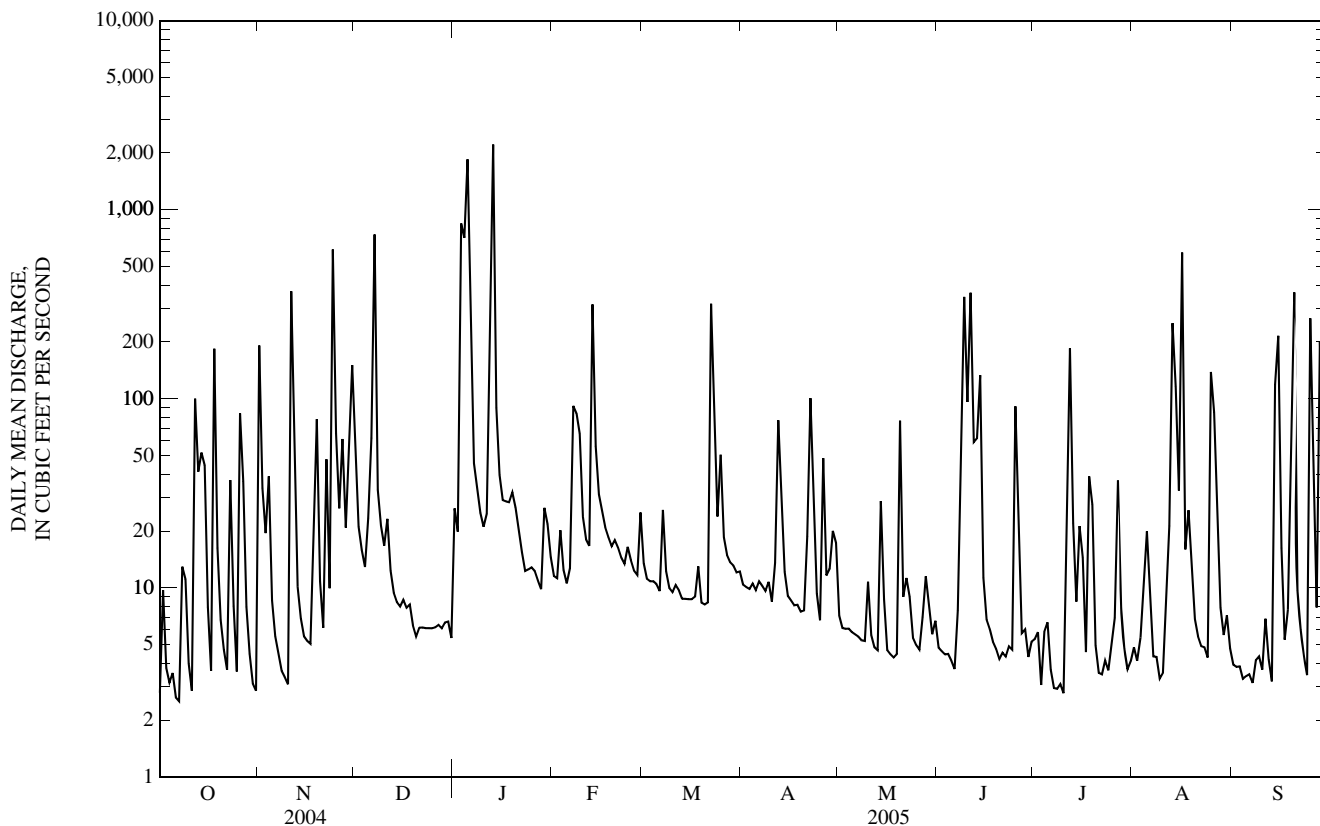
MEAN	30.7	42.7	24.2	59.8	57.9	45.5	45.5	76.3	84.1	37.8	30.3	24.3
MAX	60.6	95.6	57.6	211	173	118	82.3	185	201	109	46.6	48.4
(WY)	(2002)	(1997)	(2002)	(2005)	(1999)	(1998)	(1998)	(2002)	(2003)	(1998)	(2005)	(2005)
MIN	14.8	7.37	8.59	8.25	18.6	14.9	17.3	9.53	23.1	10.6	16.1	4.80
(WY)	(2000)	(2000)	(1999)	(2000)	(2002)	(2000)	(2000)	(2005)	(2004)	(2002)	(2003)	(2004)

06936475 COLDWATER CREEK NEAR BLACK JACK, MO—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1996 - 2005	
ANNUAL MEAN	48.9		48.5		46.6	
HIGHEST ANNUAL MEAN					59.7	2002
LOWEST ANNUAL MEAN					30.3	2001
HIGHEST DAILY MEAN	1,650	Jan 4	2,210	Jan 13	4,030	Feb 7, 1999
LOWEST DAILY MEAN	2.3	Sep 21,22	2.5	Oct 7	1.2	Oct 16, 2002
ANNUAL SEVEN-DAY MINIMUM	2.6	Sep 20	3.5	Sep 1	1.8	Sep 4, 2002
MAXIMUM PEAK FLOW	---		6,670 ^a	Jan 13	7,670 ^b	Jun 26, 2003
MAXIMUM PEAK STAGE	---		11.72	Jan 13	12.59	Jun 26, 2003
INSTANTANEOUS LOW FLOW	---		2.2	Oct 6,7	0.75	Sep 29, 1997
ANNUAL RUNOFF (INCHES)	16.47		16.30		15.67	
10 PERCENT EXCEEDS	86		80		84	
50 PERCENT EXCEEDS	12		10		9.3	
90 PERCENT EXCEEDS	3.9		3.8		3.3	

^a From rating extended above 1,250 ft³/s, on basis of indirect measurement.

^b Discharge determined by indirect measurement of peak flow.



06936475 COLDWATER CREEK NEAR BLACK JACK, MO—Continued
(Metropolitan St. Louis Sewer District Network)

WATER-QUALITY RECORDS

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

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

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Carbon dioxide water, unfltrd mg/L (00405)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfltrd μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium water, mg/L (00915)	Magnesium, water, mg/L (00925)	
OCT 05...	1000	Environmental	3.5	9.5	5.5	53	7.5	848	13.2	280	69.0	26.1	
05...	1001	Replicate	--	--	5.5	53	7.5	848	13.2	280	68.3	26.3	
12...	2002	Environmental	339	5.1	6.1	62	7.7	815	15.3	220	54.2	21.3	
MAR 22...	1452	Environmental	1,150	3.0	11.7	98	7.8	436	6.9	160	37.0	16.5	
APR 20...	1250	Environmental	7.1	4.2	10.3	118	8.0	827	21.3	300	72.1	28.4	
JUN 20...	1200	Environmental	4.2	3.6	6.6	81	7.8	423	25.3	160	44.5	12.3	
AUG 08...	1113	Environmental	3.5	6.2	6.4	81	7.6	780	26.6	250	60.9	22.9	
Date	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd incrm. titr., mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd incrm. titr., mg/L (00450)	Carbonate, wat unfltrd incrm. titr., mg/L (00447)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, mg/L as N (00608)	Nitrite + nitrate water, mg/L as N (00613)	Nitrite water, mg/L as N (00613)	Orthophosphate, water, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	COD, high level, water, unfltrd mg/L (00340)	E coli, m-TEC MF, water, col/100 mL (31633)
OCT 05...	159	160	195	<1	<10	.72	E.03n	.26	.012	.07d	.12	20	164
05...	--	--	--	--	<10	.71	E.03n	.26	.013	.05	.12	20	110
12...	142	142	173	<1	182	1.4	.06	.71	.052	.09	.40	50	1,000k
MAR 22...	97	95	116	<1	1,280d	3.8	.24	.51	.020	.05	1.69	90	1,000k
APR 20...	193	195	238	<1	17	.90	<.04	.29	.023	<.02	.14	30	27k
JUN 20...	117	117	143	<1	21	.91	.04	.46	.057	.05	.23	30	500
AUG 08...	127	127	155	<1	20	.86	.05	.93	.076	.03	.16	20	400
Date	Fecal coliform, M-FC 0.7 μ MF col/100 mL (31625)	Aluminum, water, fltrd, μ g/L (01106)	Arsenic, water, fltrd, μ g/L (01000)	Beryllium, water, fltrd, μ g/L (01010)	Cadmium, water, fltrd, μ g/L (01025)	Chromium, water, fltrd, μ g/L (01030)	Copper, water, fltrd, μ g/L (01040)	Iron, water, fltrd, μ g/L (01046)	Lead, water, fltrd, μ g/L (01049)	Manganese, water, fltrd, μ g/L (01056)	Mercury water, unfltrd recoverable, μ g/L (71900)	Nickel, water, fltrd, μ g/L (01065)	Selenium, water, fltrd, μ g/L (01145)
OCT 05...	210	E1n	2.3	<.06	.05	<.8	2.3	E5n	E.06n	210	<.01	4.12	.7
05...	240	E1n	2.3	<.06	.05	<.8	2.4	E4n	E.07n	211	<.01	4.13	.5
12...	2,700k	<2	2.6	<.06	.21	E.4n	3.0	25	.10	142	.01	4.67	1.2
MAR 22...	5,200	3	1.5	<.06	.23	.8	1.7	20	.09	205	.05	3.85	1.1
APR 20...	50k	2	2.5	<.06	E.03n	<.8	1.8	29	.13	347	<.01	3.83	1.2
JUN 20...	420	5	3.6	<.06	E.04n	<.8	1.8	E4n	<.08	284	<.01	4.21	1.0
AUG 08...	270k	2	2.3	<.06	.08	<.8	1.6	E6n	.16	299	<.01	4.23	1.2

06936475 COLDWATER CREEK NEAR BLACK JACK, MO—Continued

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

Date	Silver, water, fltrd, µg/L (01075)	Zinc, water, fltrd, µg/L (01090)
OCT		
05...	<.2	2.2
05...	<.2	2.2
12...	<.2	5.9
MAR		
22...	<.2	4.5
APR		
20...	<.2	1.2
JUN		
20...	<.2	1.9
AUG		
08...	<.2	1.4

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

06936530 SPANISH LAKE TRIBUTARY NEAR BLACK JACK, MO

LOCATION.--Lat 38°48'04", long 90°12'59", in SE ¼ SE ¼ NW ¼ sec.22, T.47 N., R.7 E., St. Louis County, Hydrologic Unit 10300200, on left downstream wingwall of Bellefontaine Ave. bridge, 2.14 mi north of Interstate 270, 0.65 mi east of Highway 367 (Lewis and Clark Blvd.), and 1.9 mi upstream of the Missouri River.

DRAINAGE AREA.--0.25 mi².

PERIOD OF RECORD.--August 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 502.33 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. 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	0.00	2.9	0.79	0.40	0.36	0.24	0.16	0.13	0.00	0.00	0.00	0.00
2	0.00	0.26	0.33	0.50	0.37	0.21	0.16	0.12	0.01	0.00	0.00	0.00
3	0.00	0.80	0.28	11	0.47	0.21	0.15	0.11	0.01	0.00	0.00	0.00
4	0.00	0.39	0.25	13	0.37	0.21	0.14	0.10	0.00	0.00	0.00	0.00
5	0.00	0.12	0.81	17	0.32	0.21	0.14	0.09	0.00	0.00	0.00	0.00
6	0.00	0.08	2.5	1.8	0.64	0.21	0.15	0.08	0.00	0.00	0.00	0.00
7	0.00	0.07	8.1	0.72	2.1	0.41	0.16	0.08	0.00	0.00	0.00	0.00
8	0.01	0.05	0.47	0.65	1.1	0.21	0.14	0.07	0.31	0.00	0.00	0.00
9	0.00	0.05	0.37	0.57	1.5	0.20	0.12	0.07	1.3	0.00	0.00	0.00
10	0.00	0.06	0.31	0.52	0.50	0.18	0.12	0.07	0.23	0.00	0.00	0.00
11	0.00	6.4	0.31	0.71	0.44	0.22	0.15	0.06	1.5	0.18	0.02	0.00
12	0.30	0.49	0.27	7.1	0.44	0.21	1.3	0.17	0.20	0.71	0.09	0.00
13	0.07	0.20	0.27	16	6.5	0.18	0.20	0.05	0.09	0.02	0.72	0.01
14	0.51	0.15	0.25	1.1	1.1	0.18	0.15	0.21	0.26	0.01	0.12	0.63
15	0.17	0.14	0.24	0.82	0.59	0.16	0.14	0.05	0.03	0.20	0.25	1.3
16	0.04	0.12	0.24	0.68	0.43	0.18	0.13	0.08	0.01	0.01	2.8	0.05
17	0.01	0.10	0.24	0.68	0.35	0.18	0.12	0.07	0.00	0.00	0.03	0.02
18	1.9	0.37	0.24	0.68	0.32	0.18	0.11	0.04	0.00	0.01	0.06	0.00
19	0.10	0.74	0.24	0.73	0.31	0.18	0.10	0.03	0.00	0.00	0.02	2.4
20	0.06	0.19	0.25	0.66	0.35	0.16	0.62	0.62	0.00	0.00	0.00	2.0
21	0.04	0.16	0.27	0.58	0.31	0.16	0.15	0.07	0.00	0.00	0.00	0.04
22	0.03	0.71	0.24	0.44	0.25	7.1	1.9	0.05	0.00	0.00	0.00	0.02
23	0.57	0.21	0.24	0.40	0.24	1.6	0.21	0.03	0.00	0.00	0.00	0.01
24	0.06	9.7	0.24	0.37	0.31	0.89	0.15	0.02	0.00	0.00	0.00	0.00
25	0.04	0.71	0.24	0.41	0.26	1.0	0.16	0.01	0.00	0.00	1.6	4.6
26	1.3	0.35	0.25	0.41	0.24	0.38	0.68	0.01	0.00	0.00	0.66	0.21
27	0.21	0.72	0.27	0.36	0.24	0.30	0.14	0.01	0.00	0.00	0.06	0.06
28	0.08	0.28	0.28	0.33	0.45	0.27	0.28	0.02	0.00	0.00	0.02	1.6
29	0.07	0.97	0.23	0.61	---	0.21	0.35	0.01	0.00	0.00	0.00	0.16
30	0.07	2.6	0.26	0.53	---	0.20	0.20	0.01	0.00	0.00	0.00	0.05
31	0.06	---	0.27	0.41	---	0.17	---	0.01	---	0.00	0.00	---
MEAN	0.18	1.00	0.63	2.59	0.74	0.53	0.29	0.08	0.13	0.04	0.21	0.44
MAX	1.9	9.7	8.1	17	6.5	7.1	1.9	0.62	1.5	0.71	2.8	4.6
MIN	0.00	0.05	0.23	0.33	0.24	0.16	0.10	0.01	0.00	0.00	0.00	0.00
IN.	0.85	4.48	2.91	11.93	3.10	2.44	1.29	0.38	0.59	0.17	0.96	1.96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

MEAN	0.23	0.44	0.32	0.73	0.58	0.59	0.46	0.85	0.55	0.46	0.17	0.18
MAX	0.45	1.12	0.70	2.59	1.81	1.28	0.74	2.05	1.51	1.25	0.26	0.62
(WY)	(2001)	(2004)	(2002)	(2005)	(1999)	(1998)	(1998)	(2004)	(2003)	(1998)	(1998)	(2003)
MIN	0.06	0.02	0.13	0.13	0.18	0.23	0.12	0.08	0.13	0.00	0.07	0.00
(WY)	(2000)	(2000)	(1999)	(2003)	(2002)	(2001)	(2000)	(2005)	(2005)	(2002)	(2003)	(1999)

SUMMARY STATISTICS

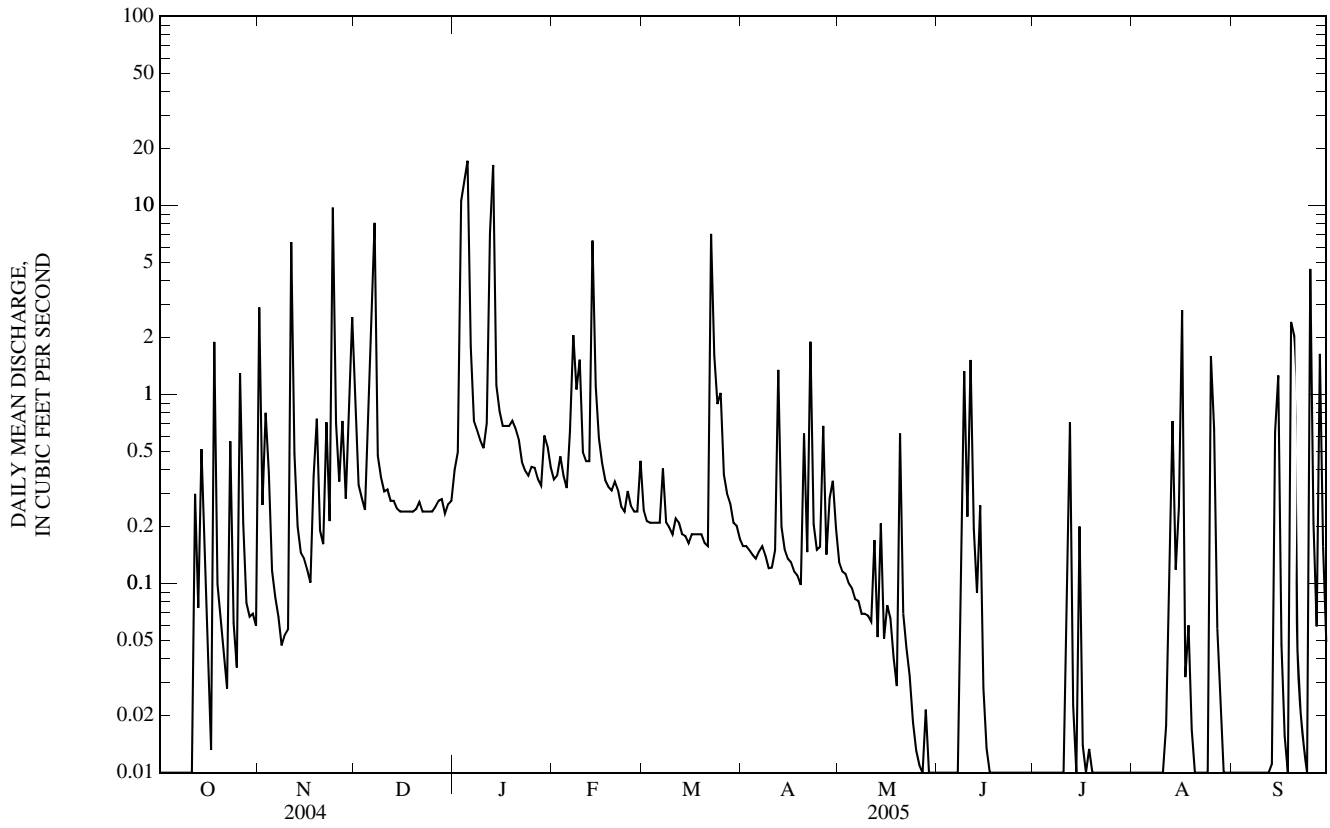
FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1997 - 2005

ANNUAL MEAN	0.63	0.57	0.47
HIGHEST ANNUAL MEAN			0.62
LOWEST ANNUAL MEAN			0.28
HIGHEST DAILY MEAN	17	Jan 4	31
LOWEST DAILY MEAN	0.00	Many Days	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Sep 3,18	0.00
MAXIMUM PEAK FLOW	---	177	710
MAXIMUM PEAK STAGE	---	3.81	5.39
INSTANTANEOUS LOW FLOW	---	0.00	0.00
ANNUAL RUNOFF (INCHES)	34.47	31.05	25.31
10 PERCENT EXCEEDS	1.1	0.85	0.87
50 PERCENT EXCEEDS	0.19	0.16	0.11
90 PERCENT EXCEEDS	0.00	0.00	0.00

06936530 SPANISH LAKE TRIBUTARY NEAR BLACK JACK, MO—Continued



06937000 MISSOURI RIVER AT COLUMBIA BOTTOM STATE CONSERVATION AREA
(Metropolitan St. Louis Sewer District Network)

LOCATION.--Lat 38°48'33", long 90°09'51", St. Louis County, Hydrologic Unit 10300200, off Riverview Road at Columbia Bottom Road to conservation area boat ramp, at mile 4.

DRAINAGE AREA.-- 530,300 mi².

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)	Carbon dioxide water, unfltrd mg/L (00405)	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 ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
OCT 19...	0910	Environmental	44,400	2.6	9.7	98	8.1	625	14.8	230	60.6	19.4
APR 07...	0850	Environmental	44,700	3.7	15.2	156	7.9	622	15.4	230	61.5	19.4
13...	1230	Environmental	66,700	3.4	8.6	90	8.0	634	16.9	230	59.9	19.7
MAY 03...	0900	Environmental	56,500	7.2	8.6	86	7.6	575	14.9	230	61.0	19.6
JUN 07...	0900	Environmental	134,000	4.3	7.5	93	7.9	633	24.8	260	65.5	23.4
12...	1520	Environmental	152,000	13	5.7	69	7.3	378	24.0	150	40.8	11.9
JUL 19...	0845	Environmental	48,400	2.2	7.3	98	8.2	672	30.3	260	66.9	22.0
AUG 02...	0900	Environmental	47,900	2.0	8.7	115	8.2	720	29.2	260	66.5	23.1
14...	1535	Environmental	40,200	3.2	6.8	91	8.0	726	29.1	270	68.5	23.8

Date	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	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)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	COD, high level, water, unfltrd mg/L (00340)	E coli, m-TEC MF, water, col/100 mL (31633)
OCT 19...	179	179	218	<1	81	.66	E.03n	1.22	E.006n	.10	.23	<10	220
APR 07...	167	171	209	<1	68	.74	E.02n	.92	E.004n	.06	.18	10	43k
13...	178	179	219	<1	125	1.7	<.04	.96	.008	.03	.23	20	840
MAY 03...	159	160	195	<1	274d	1.3	E.02n	2.70	.011	.12	.48	20	270
JUN 07...	176	176	215	<1	526d	1.6	<.04	2.56	.019	.13	.70	20	77k
12...	122	122	149	<1	1,280d	2.5	<.04	1.96	E.004n	.05	1.12	60	280k
JUL 19...	181	183	223	<1	63	.69	<.04	1.25	E.006n	.07	.23	10	92
AUG 02...	189	196	238	<1	51	.83	<.04	.56	.008	.09	.19	20	220
14...	167	171	209	<1	71	.84	E.02n	.58	E.007n	.11	.23	20	70

06937000 MISSOURI RIVER AT COLUMBIA BOTTOM STATE CONSERVATION AREA—Continued

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

Date	Fecal coli-form, M-FC 0.7µ MF col/100 mL (31625)	Aluminum, water, fltrd, µg/L (01106)	Arsenic water, fltrd, µg/L (01000)	Beryllium, water, fltrd, µg/L (01010)	Cadmium water, fltrd, µg/L (01025)	Chromium, water, fltrd, µg/L (01030)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Manganese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover-able, µg/L (71900)	Nickel, water, fltrd, µg/L (01065)	Selenium, water, fltrd, µg/L (01145)
OCT 19...	500	Mn	2.9	<.06	E.04n	<.8	1.9	E4n	<.08	.9	<.01	2.38	1.5
APR 07...	12k	4	2.5	<.06	.05	2.6	1.8	8	.90	1.1	<.01	5.80	2.3
13...	620	2	2.5	<.06	E.03n	<.8	1.5	<6	<.08	.9	E.01n	2.28	2.4
MAY 03...	510	3	2.8	<.06	.08	1.1	2.3	E4n	.22	E.3n	.01	1.54	2.6
JUN 07...	96k	4	3.3	<.06	E.03n	1.0	2.0	<6	.20	E.4n	.02	3.62	2.3
12...	800k	2	1.8	<.06	<.04	<.8	2.1	E4n	<.08	E.4n	.04	3.52	1.1
JUL 19...	300	6	4.4	<.06	E.04n	<.8	2.1	<6	<.08	.8	<.01	3.39	2.4
AUG 02...	200	11	4.4	<.06	E.04n	<.8	2.3	14	<.08	2.4	<.01	2.82	2.2
14...	120	5	4.5	<.06	E.03n	<.8	1.8	<6	<.08	E.4n	<.01	3.97	1.6

Date	Silver, water, fltrd, µg/L (01075)	Zinc, water, fltrd, µg/L (01090)
OCT 19...	<.2	E.6n
APR 07...	<.2	1.6
13...	<.2	.7
MAY 03...	<.2	1.7
JUN 07...	<.2	.6
12...	<.2	E.4n
JUL 19...	<.2	.7
AUG 02...	<.2	.8
14...	<.2	E.5n

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