

MISSISSIPPI RIVER BASIN BELOW MISSOURI RIVER

07001985 WATKINS CREEK AT BELLEFONTAINE NEIGHBORS, MO

LOCATION.--Lat 38°45'44", long 90°11'49", St. Louis County, Hydrologic Unit 07140101, on left downstream wingwall of Fry Lane bridge, 0.34 mi south of Interstate 270, 2.34 mi east of Highway 367 (Lewis and Clark Blvd.), and 1.76 mi upstream of Mississippi River.

DRAINAGE AREA.--5.19 mi².

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 431.94 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for discharges below 1 ft³/s and above 800 ft³/s, 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	0.05	26	7.6	5.0	2.1	1.9	1.7	1.2	0.82	0.44	0.09	0.12
2	0.16	2.8	2.9	2.8	2.2	1.7	1.7	1.0	0.51	0.28	0.09	0.08
3	0.17	5.6	2.2	129	3.4	1.7	1.7	1.0	0.51	0.15	0.09	0.09
4	0.14	4.5	1.8	166	2.4	1.7	1.7	0.99	0.50	0.16	0.09	0.07
5	0.13	1.1	5.4	188	2.2	1.8	1.7	0.96	0.44	0.35	2.1	0.05
6	0.12	0.88	24	17	4.0	1.7	1.8	0.91	0.40	0.19	0.52	0.06
7	0.11	0.78	81	6.2	15	3.4	1.7	0.89	0.42	0.17	0.15	0.08
8	1.4	0.68	4.2	5.7	7.1	1.7	1.5	0.80	8.4	0.12	0.69	0.33
9	0.55	0.62	3.0	4.5	9.5	1.6	1.4	0.76	70	0.21	0.38	0.50
10	0.18	1.4	2.3	3.5	3.5	1.6	1.5	0.79	5.4	0.15	0.21	0.06
11	0.13	51	2.5	4.6	2.8	1.9	1.6	0.75	12	5.3	1.7	0.05
12	4.1	4.3	1.8	57	2.6	1.8	8.3	0.71	2.7	14	1.7	0.09
13	1.4	1.5	1.5	216	47	1.6	1.9	0.71	0.93	1.1	8.5	0.87
14	6.0	1.6	1.3	15	8.3	1.5	1.4	3.0	4.4	0.39	4.5	11
15	2.7	1.1	1.3	e7.9	4.6	1.5	1.3	1.1	0.60	15	6.2	19
16	0.44	0.98	1.3	e5.5	3.4	1.6	1.2	0.90	0.47	1.2	25	2.5
17	0.28	0.92	1.2	e4.1	2.9	1.6	1.2	0.84	0.44	0.37	0.67	0.67
18	17	4.1	1.3	3.2	2.6	1.6	1.2	0.85	0.40	0.34	1.5	0.33
19	1.00	7.5	1.4	4.5	2.5	1.5	1.1	0.82	0.38	0.93	0.59	19
20	0.43	1.5	1.3	3.8	2.7	1.4	1.8	8.8	0.37	0.26	0.26	28
21	0.32	1.1	1.4	3.1	2.3	1.4	2.7	1.1	0.28	0.18	0.17	0.48
22	0.31	6.1	1.1	2.6	2.1	60	14	0.93	0.22	0.15	0.15	0.26
23	6.5	1.4	1.1	2.3	2.1	7.2	2.2	0.87	0.20	0.15	0.15	0.18
24	0.67	96	0.94	2.2	2.5	4.8	1.3	0.81	0.19	0.16	0.15	0.18
25	0.37	6.5	0.89	2.3	2.0	5.5	1.4	0.74	0.20	0.13	16	56
26	12	2.7	1.0	2.4	1.9	2.9	5.1	1.5	0.21	0.37	12	3.1
27	2.3	6.6	0.97	2.1	2.0	2.6	1.4	1.4	0.19	3.3	1.2	0.59
28	0.74	2.2	1.0	1.9	3.7	2.4	2.6	1.1	0.18	0.30	0.33	20
29	0.57	7.8	1.1	5.4	---	2.1	2.6	0.72	0.20	0.14	0.19	2.3
30	0.59	20	1.2	3.4	---	2.0	2.2	0.62	0.88	0.11	0.23	0.96
31	0.65	---	1.3	2.4	---	1.8	---	1.1	---	0.10	0.17	---
MEAN	1.98	8.98	5.20	28.4	5.34	4.11	2.43	1.25	3.76	1.49	2.77	5.57
MAX	17	96	81	216	47	60	14	8.8	70	15	25	56
MIN	0.05	0.62	0.89	1.9	1.9	1.4	1.1	0.62	0.18	0.10	0.09	0.05
IN.	0.44	1.93	1.16	6.30	1.07	0.91	0.52	0.28	0.81	0.33	0.61	1.20

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

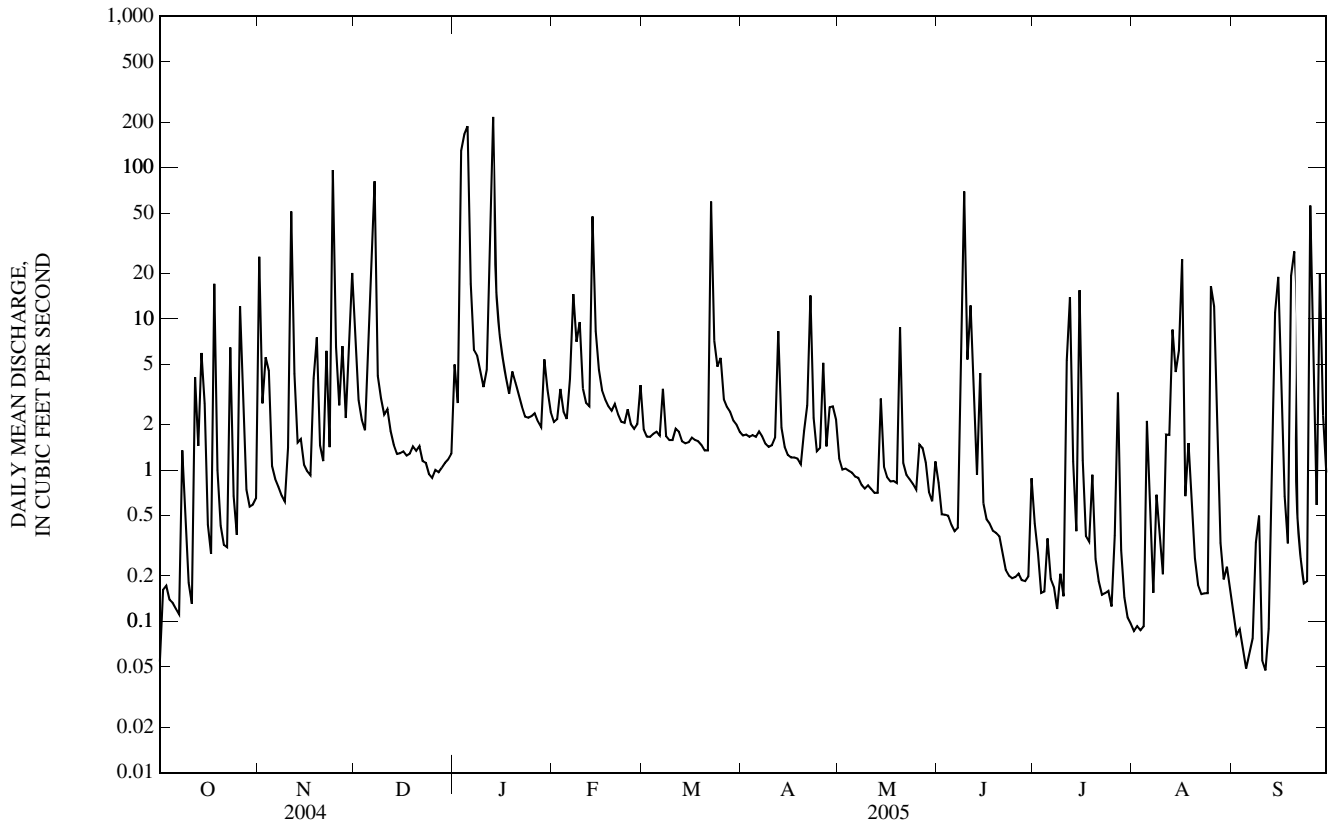
MEAN	3.00	3.71	3.00	8.16	6.19	6.61	5.68	10.5	7.42	5.57	3.17	2.46
MAX	5.38	8.98	8.45	28.4	17.1	18.5	11.3	24.5	18.0	18.5	10.9	5.66
(WY)	(2001)	(2005)	(2002)	(2005)	(1999)	(1998)	(1998)	(2004)	(2003)	(1998)	(1998)	(2003)
MIN	0.50	0.95	1.22	0.90	3.62	1.71	1.23	1.25	1.66	0.32	1.05	0.18
(WY)	(1998)	(2000)	(2001)	(2000)	(2003)	(2000)	(2000)	(2005)	(1997)	(1997)	(2001)	(2004)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1997 - 2005
ANNUAL MEAN	6.44	5.95	5.60
HIGHEST ANNUAL MEAN			8.19
LOWEST ANNUAL MEAN			2.89
HIGHEST DAILY MEAN			381
LOWEST DAILY MEAN	0.03	0.05	0.03
ANNUAL SEVEN-DAY MINIMUM	0.04	0.08	0.04
MAXIMUM PEAK FLOW	---	Unknown	Unknown
MAXIMUM PEAK STAGE	---	9.90	13.10
INSTANTANEOUS LOW FLOW	---	0.03	0.01
ANNUAL RUNOFF (INCHES)	16.90	15.57	14.66
10 PERCENT EXCEEDS	8.4	8.3	8.9
50 PERCENT EXCEEDS	1.5	1.4	1.1
90 PERCENT EXCEEDS	0.17	0.17	0.23

e Estimated

07001985 WATKINS CREEK AT BELLEFONTAINE NEIGHBORS, MO—Continued



07005000 MALINE CREEK AT BELLEFONTAINE NEIGHBORS, MO

LOCATION.--Lat 38°44'12", long 90°13'34", in SE ¼ NE ¼ NE ¼ sec.9, T.46 N., R.7 E., St. Louis County, Hydrologic Unit 07140101, on left downstream wingwall of Bellefontaine Road bridge, 2.32 mi south of Interstate 270, 0.80 mi east of Highway 367 (Lewis and Clark Blvd.), and 1.03 mi upstream of Mississippi River.

DRAINAGE AREA.--24.4 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1996 to current year. Annual peaks only for 1968-1974 water years published in WRD MO 1974.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 409.96 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records fair except for estimated daily discharges and discharges less than 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	1.1	72	22	15	6.7	6.2	9.4	5.1	4.6	1.3	2.0	1.7
2	4.5	20	9.9	5.1	5.4	5.6	10	4.7	4.5	1.7	1.5	1.6
3	1.9	e11	8.2	515	11	5.4	9.3	5.0	4.6	1.6	1.3	1.4
4	0.71	5.0	7.9	500	6.6	5.6	9.8	5.0	4.6	1.5	2.1	2.3
5	0.27	1.3	16	647	5.5	5.3	11	5.3	4.8	3.9	11	4.8
6	0.16	0.73	35	75	7.8	5.2	10	5.3	8.5	2.9	3.1	3.9
7	0.09	0.51	226	33	44	11	10	5.2	7.3	3.4	1.6	1.4
8	5.0	0.41	11	22	27	11	9.2	4.9	31	2.0	2.2	1.4
9	5.8	0.43	6.1	18	31	10	9.3	5.4	170	1.2	2.1	1.3
10	2.1	0.67	4.2	13	12	9.0	9.6	6.5	21	0.95	1.5	1.5
11	1.1	122	7.7	17	9.5	11	13	4.8	41	22	8.8	1.6
12	19	13	3.3	13	8.8	10	40	4.8	15	49	11	1.5
13	10	2.5	2.5	e980	112	9.0	10	4.8	5.9	8.9	40	1.9
14	20	1.4	2.2	43	29	8.5	9.6	17	23	4.2	32	36
15	15	1.2	2.5	24	16	8.6	7.5	5.2	4.4	27	34	63
16	5.4	1.2	2.4	17	12	8.7	7.1	5.0	2.9	6.2	59	8.0
17	0.28	1.2	2.1	15	9.5	8.9	7.0	4.0	2.7	2.8	5.5	3.7
18	61	9.4	2.2	12	8.5	8.7	6.3	4.5	3.6	13	9.5	2.3
19	3.4	26	1.7	17	7.7	8.8	5.9	4.8	2.3	8.1	5.0	46
20	0.59	3.0	1.8	16	8.8	8.7	7.8	35	2.3	2.3	3.0	102
21	0.36	1.5	2.2	11	7.4	8.8	11	6.0	2.2	1.6	2.1	6.2
22	0.29	19	1.6	8.9	6.7	129	52	6.8	2.2	1.5	1.9	4.7
23	25	2.8	3.1	6.7	6.5	32	11	6.2	2.6	1.4	1.8	3.1
24	1.7	238	1.5	8.7	8.4	19	5.3	4.2	2.1	1.3	2.0	2.5
25	0.30	25	1.7	9.2	6.8	27	5.3	4.0	2.2	1.4	45	162
26	48	10	2.8	9.5	6.1	13	24	4.3	2.2	1.8	42	21
27	11	20	3.0	6.5	5.9	11	5.8	4.9	1.7	16	8.1	6.9
28	1.3	8.5	2.7	5.2	11	11	11	6.6	6.0	2.9	3.2	60
29	0.93	22	3.3	18	---	11	12	4.5	4.5	1.5	2.2	17
30	0.72	55	3.3	13	---	10	10	4.2	2.6	1.7	1.9	5.2
31	0.78	---	2.5	8.6	---	9.8	---	5.3	---	1.4	2.0	---
MEAN	7.99	23.2	13.0	100	15.6	14.4	12.0	6.43	13.1	6.34	11.2	19.2
MAX	61	238	226	980	112	129	52	35	170	49	59	162
MIN	0.09	0.41	1.5	5.1	5.4	5.2	5.3	4.0	1.7	0.95	1.3	1.3
IN.	0.38	1.06	0.61	4.73	0.67	0.68	0.55	0.30	0.60	0.30	0.53	0.88

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

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005		
MEAN	11.2	19.9	10.3	28.1	23.0	23.3	17.4	28.2	28.0	15.0	13.5	10.3
MAX	20.6	51.7	17.2	100	55.5	69.3	31.0	81.8	67.0	42.7	32.9	22.2
(WY)	(2002)	(1997)	(2000)	(2005)	(1999)	(1998)	(1998)	(2004)	(2003)	(1998)	(1998)	(2003)
MIN	6.56	7.54	2.89	7.54	7.18	7.12	7.57	6.43	6.96	1.16	4.14	0.95
(WY)	(2000)	(2003)	(2001)	(2001)	(2002)	(2000)	(2000)	(2005)	(2001)	(1997)	(2001)	(2004)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

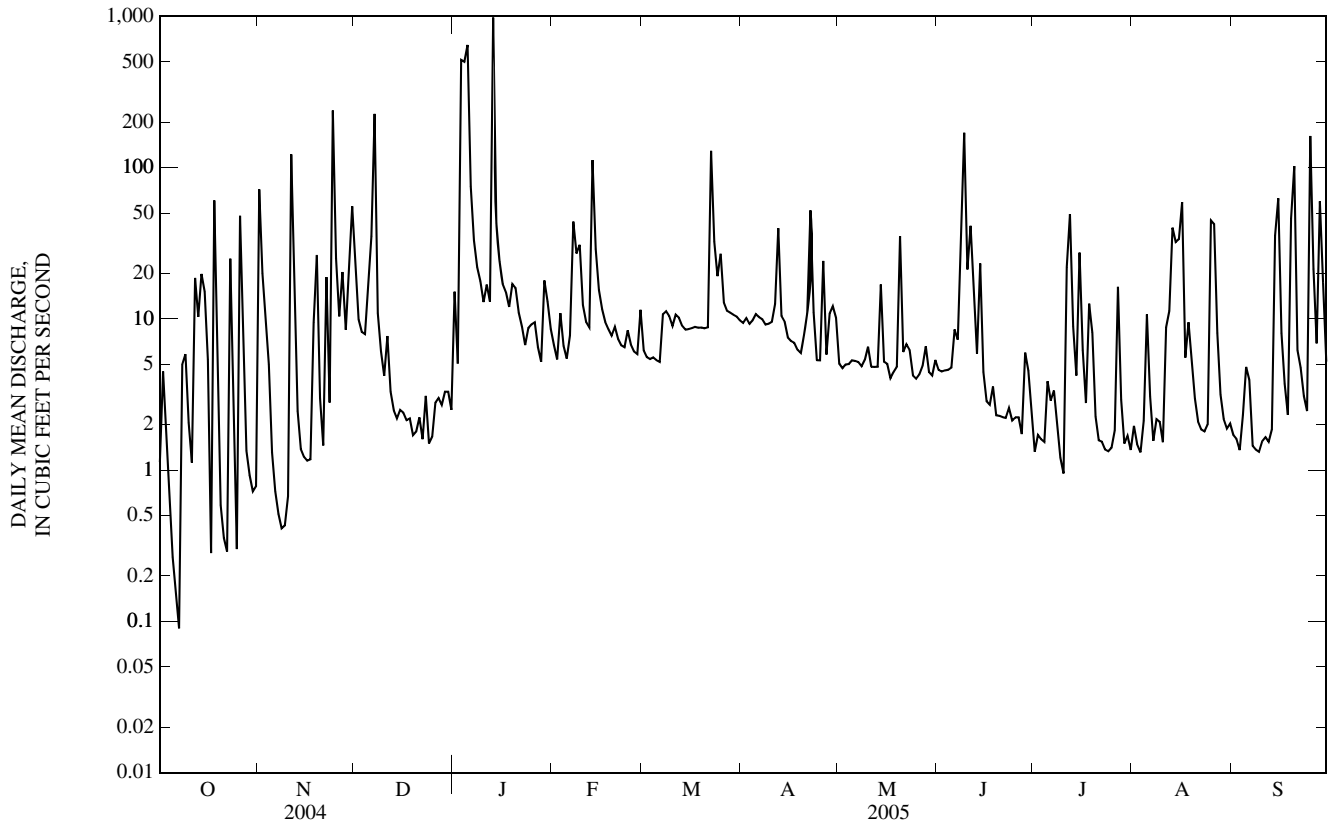
WATER YEARS 1996 - 2005

ANNUAL MEAN	22.0	20.3	18.9
HIGHEST ANNUAL MEAN			27.7
LOWEST ANNUAL MEAN			7.25
HIGHEST DAILY MEAN	836	May 27	980
LOWEST DAILY MEAN	0.09	Oct 7	0.09
ANNUAL SEVEN-DAY MINIMUM	0.46	Sep 9	1.2
MAXIMUM PEAK FLOW	---		4,950 ^a
MAXIMUM PEAK STAGE	---		11.29
INSTANTANEOUS LOW FLOW	---		0.03
ANNUAL RUNOFF (INCHES)	12.26		11.29
10 PERCENT EXCEEDS	37		32
50 PERCENT EXCEEDS	6.6		6.1
90 PERCENT EXCEEDS	0.68		1.4

e Estimated

^a From rating extended above 1,270 ft³/s on basis of indirect measurement.

07005000 MALINE CREEK AT BELLEFONTAINE NEIGHBORS, MO—Continued



07005000 MALINE CREEK AT BELLEFONTAINE NEIGHBORS, 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)	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, mg/L (00915)	Magnesium, water, mg/L (00925)
OCT 05...	1200	Environmental	.35	12	3.1	30	7.4	780	14.2	280	74.5	22.2
05...	1700	Environmental	127	5.2	7.8	82	7.5	310	17.5	110	30.6	7.68
MAR 22...	1322	Environmental	398	3.1	12.1	102	7.6	386	7.1	120	32.7	10.1
APR 25...	1430	Environmental	5.2	7.5	7.0	73	7.5	755	15.3	230	64.1	16.5
JUN 20...	1350	Environmental	2.4	1.2	10.2	134	8.3	561	29.0	200	54.9	14.9
AUG 08...	1213	Environmental	3	8.8	7.0	92	7.4	643	28.9	200	54.7	15.5

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, mg/L as N (00608)	Nitrite + nitrate water, mg/L as N (00631)	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...	168	169	206	<1	.25	.83	.05	<.06	<.008	.07	.19	30	670
05...	87	87	106	<1	465d	1.8	<.04	.24	.018	.19	.92	60	2,800
MAR 22...	65	63	77	<1	872d	3.3	.28	.54	.022	.05	1.22	80	10,000
APR 25...	138	140	171	<1	<10	.93	.32	.36	.041	.07	.14	20	2,100
JUN 20...	125	125	152	<1	20	.81	<.04	<.06	<.008	E.01n	.18	30	2,100
AUG 08...	109	110	134	<1	14	.73	<.04	.20	.022	.02	.17	30	5,200k

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...	5,400	E1n	2.7	<.06	E.04n	<.8	2.3	E6n	E.04n	121	<.01	3.92	E.4n
05...	8,400	3	1.8	<.06	E.03n	<.8	1.7	47	.16	251	.04	2.42	.5
MAR 22...	27,000	15	1.3	<.06	E.02n	.9	1.3	38	.14	218	.04	3.01	.6
APR 25...	170k	7	2.6	<.06	E.03n	<.8	2.3	49	.12	438	<.01	3.31	1.0
JUN 20...	2,200	5	3.5	<.06	E.03n	<.8	2.0	E4n	E.06n	7.1	<.01	4.78	.6
AUG 08...	4,200k	2	3.6	<.06	E.03n	<.8	1.9	E3n	E.07n	155	<.01	4.28	.4

07005000 MALINE CREEK AT BELLEFONTAINE NEIGHBORS, 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	2.4
26...	<.2	4.3
MAR		
22...	<.2	4.3
APR		
25...	<.2	3.1
JUN		
20...	<.2	1.9
AUG		
08...	<.2	1.2

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

07005500 MISSISSIPPI RIVER ABOVE ST. LOUIS, MO
(Metropolitan St. Louis Sewer District Network)

LOCATION.--Lat 38°42'03", long 90°12'29", St. Louis County, Hydrologic Unit 07140101, site can be reached by boat 4.5 miles upstream of the St. Louis Arch, upstream of diversion channel and Mosenstein Island, at mile 184.5.

DRAINAGE AREA.--697,000 mi², approximately.

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 26...	1010	Environmental	105,000	2.6	11.1	113	8.1	524	15.9	220	53.0	21.1	
APR 12...	1425	Environmental	203,000	2.9	9.0	94	8.0	520	16.0	210	51.2	20.2	
22...	0950	Environmental	232,000	2.6	8.1	89	8.0	476	18.7	190	49.0	16.6	
MAY 10...	0930	Environmental	139,000	3.4	10.2	111	8.0	558	18.5	240	59.8	22.0	
JUN 10...	1525	Environmental	262,000	3.4	5.4	65	7.9	442	23.4	190	48.1	16.4	
21...	1005	Environmental	237,000	5.5	6.5	81	7.8	493	25.5	230	58.5	21.1	
JUL 12...	0950	Environmental	153,000	5.3	6.7	86	7.8	539	27.5	230	57.2	20.0	
20...	1540	Environmental	96,300	1.0	9.6	131	8.5	627	30.9	270	66.9	24.0	
AUG 09...	1015	Environmental	77,700	2.7	7.3	97	8.1	614	29.5	230	56.8	22.4	
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 26...	169	170	207	<1	45	.70	<.04	1.66	.018	.07	.18	<10	20k
APR 12...	162	162	197	<1	136	.59	.05	2.48	.040	.06	<.04	20	12k
22...	139	138	168	<1	149d	1.0	E.04n	2.26	.032	.07	.27	20	10k
MAY 10...	167	168	205	<1	67	.94	<.04	3.08	.009	.06	.20	20	22
JUN 10...	139	141	171	<1	456d	1.7	<.04	3.19	.016	.08	.57	30	230
21...	159	156	194	<1	388d	1.5	<.04	3.27	.026	.06	.51	30	280
JUL 12...	162	160	197	<1	50	.87	E.02n	3.76	.028	.09	.26	10	28k
20...	171	172	200	5	15	.74	E.02n	2.50	.029	.11	.16	30	21
AUG 09...	168	171	208	<1	52	.87	<.04	.71	.019	.09	.23	20	13k

07005500 MISSISSIPPI RIVER ABOVE ST. LOUIS, MO—Continued

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

Date	Fecal coliform, 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 recoverable, µg/L (71900)	Nickel, water, fltrd, µg/L (01065)	Selenium, water, fltrd, µg/L (01145)
OCT 26...	48k	2	2.0	<.06	E.03n	<.8	1.8	<6	<.08	.9	<.01	2.60	.9
APR 12...	6k	E1n	1.5	<.06	E.02n	<.8	1.7	7	E.05n	.8	E.01n	2.65	1.1
22...	20k	2	1.6	E.03n	<.04	<.8	1.9	E5n	E.05n	E.6n	E.01n	2.15	1.2
MAY 10...	25	2	2.2	<.06	E.03n	<.8	1.7	E4n	<.08	.7	<.01	2.63	2.1
JUN 10...	390	3	1.9	<.06	<.04	E.5n	2.0	E5n	<.08	E.3n	.02	3.54	1.1
21...	490	5	2.2	<.06	E.02n	E.4n	2.3	E4n	<.08	1.0	.02	4.26	1.4
JUL 12...	58	2	3.1	<.06	E.03n	<.8	3.2	E4n	<.08	E.5n	E.01n	3.49	1.5
20...	27	5	3.4	<.06	E.03n	<.8	2.1	<6	<.08	.9	<.01	3.69	1.9
AUG 09...	140	9	3.8	<.06	E.03n	<.8	1.9	9	E.06n	2.2	<.01	3.28	1.4

Date	Silver, water, fltrd, µg/L (01075)	Zinc, water, fltrd, µg/L (01090)
OCT 26...	<.2	1.8
APR 12...	<.2	1.1
22...	<.2	1.9
MAY 10...	<.2	2.7
JUN 10...	<.2	.6
21...	<.2	1.4
JUL 12...	<.2	.9
20...	<.2	.7
AUG 09...	<.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

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO

LOCATION.--Lat 38°37'51", long 90°10'40", Hydrologic Unit 07140101, on downstream side of west pier of Eads Bridge at St. Louis, 15.0 mi downstream from Missouri River, 19.2 mi upstream from Meramec River, and at mile 180.0 above the Ohio River.

DRAINAGE AREA.--697,000 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--

DISCHARGE: January 1861 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE HEIGHT: March 1933 to current year. Since January 1861 in reports of Mississippi River Commission. Since January 1890 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. Datum of gage is 379.94 ft above National Geodetic Vertical Datum of 1929. Prior to May 5, 1934, nonrecording gage 0.4 mi downstream; May 5, 1934, to Dec. 9, 1952, water-stage recorder at site 20 ft downstream at present datum.

REMARKS.--Water-discharge records good. Natural flow of stream affected by many reservoirs and navigation dams in upper Mississippi River Basin and by many reservoirs and diversions for irrigation in Missouri River Basin. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 27, 1844, reached a stage of 41.32 ft, from floodmarks, discharge, 1,000,000 ft³/s, computed by U.S. Army Corps of Engineers. Flood in April 1785 may have reached a stage of 42.0 ft. Minimum flow, 18,000 ft³/s, Dec. 23, 1863.

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	123,000	125,000	242,000	111,000	193,000	198,000	155,000	228,000	183,000	201,000	98,800	127,000
2	121,000	200,000	240,000	105,000	185,000	195,000	160,000	218,000	176,000	194,000	99,800	128,000
3	121,000	232,000	228,000	133,000	179,000	194,000	170,000	205,000	173,000	194,000	95,700	113,000
4	119,000	232,000	216,000	205,000	176,000	189,000	186,000	202,000	173,000	197,000	84,900	94,100
5	117,000	225,000	198,000	342,000	173,000	179,000	191,000	195,000	168,000	196,000	86,300	84,500
6	117,000	226,000	194,000	461,000	174,000	169,000	189,000	180,000	172,000	193,000	78,900	83,400
7	112,000	218,000	236,000	461,000	181,000	161,000	187,000	162,000	220,000	189,000	81,500	78,400
8	112,000	207,000	286,000	386,000	200,000	153,000	189,000	148,000	273,000	185,000	86,900	78,000
9	110,000	191,000	283,000	344,000	203,000	145,000	192,000	144,000	276,000	184,000	78,500	85,600
10	112,000	178,000	270,000	309,000	214,000	154,000	194,000	142,000	269,000	173,000	77,400	92,000
11	111,000	179,000	248,000	284,000	227,000	166,000	201,000	140,000	277,000	160,000	73,900	86,700
12	120,000	187,000	226,000	270,000	225,000	163,000	211,000	141,000	288,000	154,000	73,400	80,700
13	129,000	179,000	217,000	322,000	228,000	155,000	229,000	140,000	277,000	146,000	83,200	76,800
14	121,000	164,000	209,000	404,000	283,000	150,000	263,000	161,000	300,000	136,000	90,100	82,300
15	115,000	160,000	202,000	399,000	345,000	145,000	289,000	179,000	332,000	134,000	89,200	82,100
16	111,000	149,000	198,000	344,000	379,000	142,000	305,000	204,000	339,000	126,000	92,000	84,900
17	102,000	141,000	192,000	319,000	376,000	133,000	302,000	266,000	315,000	115,000	86,300	89,500
18	102,000	137,000	180,000	286,000	359,000	127,000	286,000	264,000	286,000	106,000	81,100	90,400
19	114,000	135,000	180,000	263,000	347,000	133,000	266,000	248,000	270,000	103,000	85,600	86,600
20	109,000	137,000	169,000	255,000	329,000	134,000	249,000	236,000	253,000	96,800	95,100	93,900
21	101,000	139,000	163,000	252,000	307,000	122,000	239,000	231,000	243,000	97,000	106,000	98,900
22	95,900	135,000	152,000	249,000	285,000	118,000	237,000	229,000	235,000	98,700	109,000	112,000
23	96,600	124,000	129,000	236,000	276,000	127,000	242,000	227,000	229,000	93,200	105,000	107,000
24	106,000	129,000	114,000	229,000	260,000	121,000	261,000	216,000	226,000	92,500	116,000	102,000
25	111,000	158,000	117,000	229,000	241,000	123,000	261,000	212,000	220,000	103,000	117,000	103,000
26	111,000	203,000	121,000	222,000	227,000	126,000	264,000	220,000	216,000	109,000	109,000	106,000
27	116,000	223,000	120,000	213,000	223,000	126,000	262,000	216,000	210,000	106,000	98,100	103,000
28	126,000	260,000	121,000	205,000	215,000	123,000	255,000	206,000	203,000	101,000	111,000	113,000
29	129,000	265,000	117,000	204,000	---	124,000	245,000	198,000	205,000	107,000	127,000	131,000
30	129,000	244,000	116,000	202,000	---	135,000	234,000	195,000	205,000	104,000	134,000	126,000
31	120,000	---	109,000	198,000	---	146,000	---	190,000	---	97,300	129,000	---
MEAN	114,200	182,700	186,900	272,300	250,400	147,600	230,500	198,200	240,400	138,400	96,120	97,330
MAX	129,000	265,000	286,000	461,000	379,000	198,000	305,000	266,000	339,000	201,000	134,000	131,000
MIN	95,900	124,000	109,000	105,000	173,000	118,000	155,000	140,000	168,000	92,500	73,400	76,800
IN.	0.19	0.29	0.31	0.45	0.37	0.24	0.37	0.33	0.38	0.23	0.16	0.16

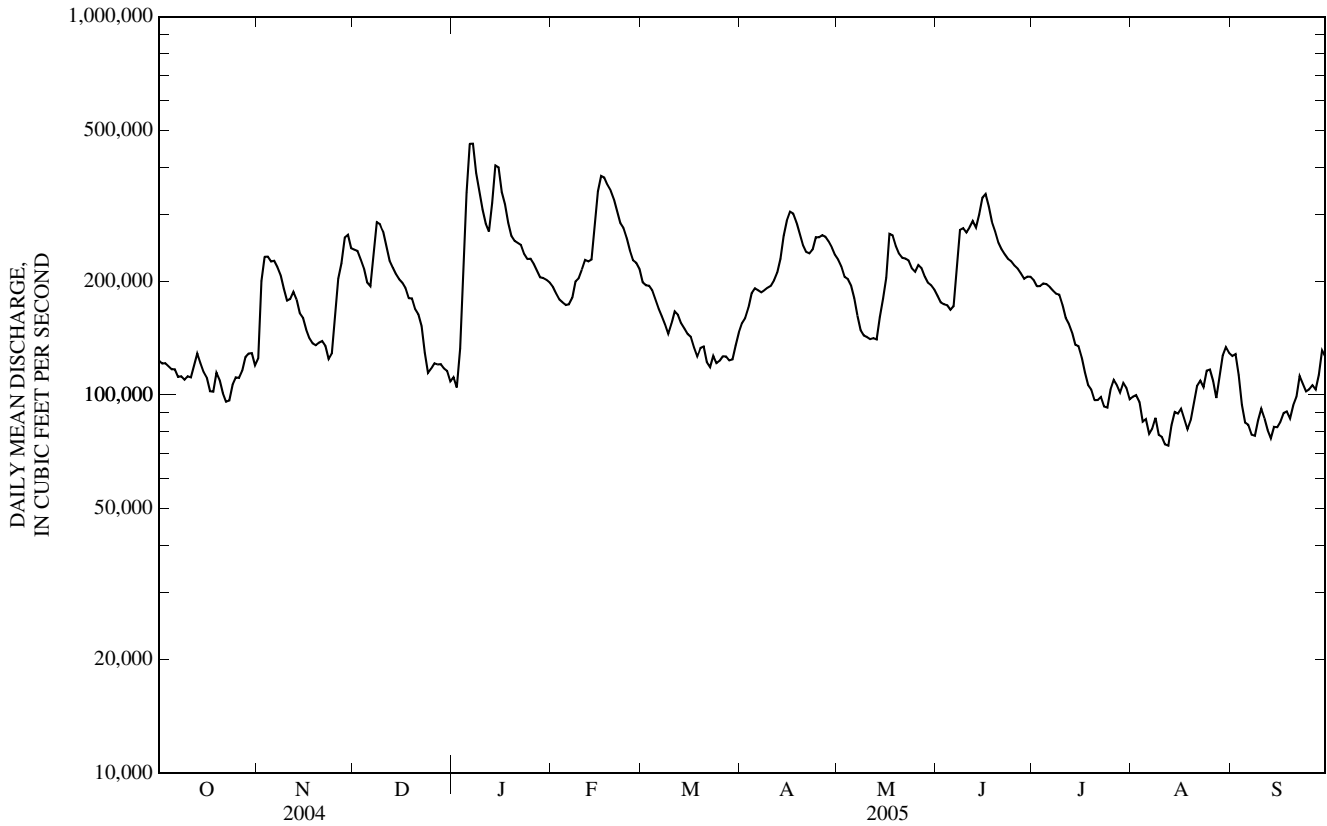
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2005, BY WATER YEAR (WY)

MEAN	138,000	143,500	124,400	116,900	145,700	227,700	301,400	294,100	273,400	221,500	144,400	136,000
MAX	575,300	359,200	452,400	307,800	301,400	521,800	692,500	588,700	600,600	808,800	700,200	531,800
(WY)	(1987)	(1986)	(1983)	(1973)	(1974)	(1973)	(1973)	(1995)	(1947)	(1993)	(1993)	(1993)
MIN	44,170	47,920	42,130	31,340	41,900	74,550	110,100	79,500	70,260	67,130	43,510	54,640
(WY)	(1940)	(1940)	(1938)	(1940)	(1940)	(1964)	(1934)	(1934)	(1934)	(1936)	(1936)	(1939)

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1933 - 2005	
ANNUAL MEAN	193,500		178,900		189,000	
HIGHEST ANNUAL MEAN					429,700	1993
LOWEST ANNUAL MEAN					67,700	1934
HIGHEST DAILY MEAN	460,000	May 29	461,000	Jan 6,7	1,050,000	Aug 1, 1993
LOWEST DAILY MEAN	75,000	Feb 18	73,400	Aug 12	27,800	Dec 12, 1937
ANNUAL SEVEN-DAY MINIMUM	79,400	Feb 14	78,600	Aug 6	28,200	Jan 18, 1940
MAXIMUM PEAK FLOW	---		479,000	Jan 7	1,080,000	Aug 1, 1993
MAXIMUM PEAK STAGE	---		28.80	Jan 7	49.58	Aug 1, 1993
INSTANTANEOUS LOW FLOW	---		71,000	Aug 12	27,800	Dec 12, 1937
ANNUAL RUNOFF (INCHES)	3.78		3.49		3.68	
10 PERCENT EXCEEDS	365,000		276,000		368,000	
50 PERCENT EXCEEDS	170,000		173,000		152,000	
90 PERCENT EXCEEDS	100,000		95,500		69,800	

e Estimated



07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO—Continued
(Metropolitan St. Louis Sewer District Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

WATER TEMPERATURE: October 1951 to September 1992.

SEDIMENT RECORDS: April 1948 to current year.

Metropolitan St. Louis Sewer District Network station: October 2004 to current year.

REMARKS.--Sediment discharge computed from turbidity readings. Sediment records fair.

EXTREMES FOR PERIOD OF RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 6,720 mg/L, Feb. 24, 1985; minimum daily mean, 19 mg/L, Jan. 21 and 22, 1967.

SEDIMENT LOADS: Maximum daily, 9,830,000 tons, Feb. 24, 1985; minimum daily, 2,800 tons, Jan. 21, 1967.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 986 mg/L, May 19; minimum daily mean 71 mg/L, July 21 and 24.

SEDIMENT LOADS: Maximum daily, 914,000 tons, Jan. 6; minimum daily, 17,600 tons, July 24.

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 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
OCT 26...	0915	Environmental	105,000	3.0	10.8	112	8.1	579	16.3	230	56.3	21.8
APR 12...	1335	Environmental	203,000	2.7	11.3	119	8.1	559	16.5	220	54.1	20.7
22...	0910	Environmental	232,000	3.1	8.1	89	7.9	482	18.6	190	48.9	17.6
MAY 10...	0855	Environmental	139,000	5.2	10.1	110	7.8	558	18.4	240	61.0	22.0
JUN 10...	1440	Environmental	262,000	8.8	6.1	75	7.5	447	24.9	190	47.9	16.5
21...	0920	Environmental	238,000	3.0	6.4	79	8.0	491	25.5	230	58.2	21.4
JUL 12...	0910	Environmental	153,000	5.8	6.6	84	7.7	535	26.8	230	58.4	20.2
20...	1510	Environmental	96,300	1.1	9.4	130	8.5	604	31.4	260	66.0	24.0
AUG 09...	0930	Environmental	77,700	3.0	7.0	93	8.0	629	29.4	240	58.2	22.1
09...	0931	Replicate	--	--	7.0	93	8.0	629	29.4	240	57.8	22.1

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

Date	ANC, wat unfltrd end pt, field, mg/L as CaCO3 (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO3 (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 26...	189	189	231	<1	44	.81	.08	1.61	.020	.11	.22	<10	42
APR 12...	163	162	197	<1	139	.29	.05	2.16	.033	.06	.12	20	E15k
22...	138	139	170	--	144d	1.1	E.04n	2.51	.035	.07	.30	20	E33k
MAY 10...	165	167	204	<1	71	.97	<.04	3.11	.010	.07	.20	20	E12k
JUN 10...	141	144	175	<1	527d	1.9	E.02n	3.21	.019	.08	.66	30	190
21...	154	156	188	<1	350d	1.4	E.02n	3.29	.033	.07	.49	30	620
JUL 12...	161	161	196	<1	77	.80	<.04	3.86	.033	.13	.26	10	44
20...	177	175	209	2	26	.86	E.02n	2.81	.031	.10	.19	20	40
AUG 09...	172	175	213	<1	68	.86	<.04	.77	.018	.11	.25	20	E13k
09...	--	--	--	--	60	.87	.07	.87	.013	.09	.24	20	E15k

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO—Continued

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

Date	Fecal coli-form, M-FC 0.7u MF col/100 mL (31625)	Aluminum, water, fltrd, ug/L (01106)	Arsenic, water, fltrd, ug/L (01000)	Beryllium, water, fltrd, ug/L (01010)	Cadmium, water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury, water, unfltrd recover-able, ug/L (71900)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)
OCT 26...	40	2	2.2	<.06	.04	<.8	1.8	E4n	<.08	1.1	<.01	3.09	1.1
APR 12...	E17k	E1n	1.4	<.06	E.02n	<.8	1.6	E5n	<.08	.7	E.01n	4.04	.7
22...	E92k	2	1.3	<.06	E.02n	<.8	1.7	E5n	E.05n	.6	E.01n	1.64	.9
MAY 10...	E8k	2	2.2	<.06	E.03n	<.8	1.7	E4n	E.07n	1.6	<.01	2.56	2.0
JUN 10...	590	2	1.9	<.06	E.02n	<.8	2.1	<6	E.05n	<.6	.02	3.43	1.2
21...	E700k	2	2.2	<.06	E.02n	<.8	3.9	<6	<.08	E.4n	.01	4.25	1.5
JUL 12...	60	4	3.0	<.06	E.03n	4.1	2.9	7	E.06n	1.5	E.01n	3.44	1.6
20...	59	3	3.2	<.06	E.03n	<.8	2.1	<6	E.08n	.8	<.01	3.60	1.7
AUG 09...	45	5	3.8	<.06	E.03n	<.8	2.8	9	E.08n	1.3	<.01	3.06	1.4
09...	52	5	3.8	<.06	E.03n	<.8	2.9	E4n	E.04n	1.0	<.01	3.20	1.5

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

Date	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Data base number
OCT 26...	<.2	1.4	01
APR 12...	<.2	.8	01
22...	<.2	.9	01
MAY 10...	<.2	.8	01
JUN 10...	<.2	1.3	01
21...	<.2	E.5n	01
JUL 12...	<.2	1.0	01
20...	<.2	.8	01
AUG 09...	<.2	1.5	01
09...	<.2	1.2	02

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

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
1	123,000	148	49,000	125,000	134	45,100	e242,000	292	191,000
2	121,000	174	56,800	200,000	242	131,000	240,000	245	158,000
3	121,000	190	62,100	232,000	398	250,000	228,000	222	136,000
4	119,000	158	50,900	232,000	462	289,000	216,000	184	107,000
5	117,000	178	56,200	225,000	390	237,000	198,000	167	89,100
6	117,000	182	57,600	226,000	358	219,000	194,000	158	82,500
7	112,000	170	51,500	218,000	281	165,000	236,000	265	169,000
8	112,000	183	55,500	207,000	246	138,000	286,000	372	287,000
9	110,000	157	46,600	191,000	236	122,000	283,000	329	251,000
10	112,000	124	37,400	178,000	202	97,300	270,000	230	168,000
11	111,000	146	43,600	179,000	181	87,200	248,000	244	163,000
12	120,000	169	54,700	187,000	191	96,400	226,000	306	187,000
13	129,000	206	71,700	179,000	175	84,800	217,000	230	135,000
14	121,000	169	55,300	164,000	175	77,500	209,000	191	108,000
15	115,000	139	43,200	160,000	135	58,200	202,000	175	95,700
16	111,000	129	38,600	149,000	115	46,300	198,000	168	90,000
17	102,000	115	31,600	141,000	106	40,300	192,000	149	77,300
18	102,000	118	32,600	137,000	93	34,300	180,000	139	67,600
19	114,000	131	40,400	135,000	87	31,700	180,000	144	70,000
20	109,000	135	39,700	137,000	87	32,200	169,000	147	67,000
21	101,000	116	31,500	139,000	83	31,300	163,000	138	60,600
22	95,900	114	29,400	135,000	84	30,800	152,000	133	54,500
23	96,600	125	32,700	124,000	82	27,500	129,000	105	36,400
24	106,000	102	29,100	129,000	114	39,500	114,000	94	29,000
25	111,000	101	30,300	158,000	228	97,400	117,000	85	27,000
26	111,000	99	29,600	203,000	228	125,000	121,000	73	23,900
27	116,000	115	36,000	223,000	268	161,000	120,000	100	32,300
28	126,000	131	44,700	260,000	448	315,000	121,000	87	28,500
29	129,000	148	51,500	265,000	349	250,000	117,000	84	26,600
30	129,000	136	47,300	244,000	261	172,000	116,000	122	38,300
31	120,000	145	47,100	---	---	---	109,000	99	29,100
TOTAL	3,539,500	---	1,384,200	5,482,000	---	3,531,800	5,793,000	---	3,085,400
			JANUARY			FEBRUARY			MARCH
1	111,000	72	21,500	193,000	149	77,500	198,000	163	87,100
2	105,000	81	23,000	185,000	177	88,600	195,000	166	87,200
3	133,000	207	74,400	179,000	146	70,600	194,000	137	72,000
4	205,000	363	201,000	176,000	135	64,200	189,000	129	66,000
5	342,000	506	467,000	173,000	120	55,800	179,000	125	60,300
6	461,000	734	914,000	174,000	101	47,500	169,000	117	53,400
7	461,000	694	864,000	181,000	116	56,500	161,000	138	60,000
8	386,000	639	666,000	200,000	147	79,600	153,000	105	43,500
9	344,000	580	539,000	203,000	142	77,700	145,000	91	35,800
10	309,000	414	345,000	214,000	140	80,900	154,000	96	39,900
11	284,000	320	245,000	227,000	130	79,800	166,000	94	42,200
12	270,000	238	174,000	225,000	192	116,000	163,000	92	40,500
13	322,000	388	337,000	228,000	216	133,000	155,000	94	39,300
14	404,000	518	566,000	283,000	293	224,000	150,000	94	38,100
15	399,000	558	601,000	345,000	371	345,000	145,000	113	44,400
16	344,000	576	535,000	379,000	672	688,000	142,000	111	42,500
17	319,000	540	465,000	376,000	824	836,000	133,000	77	27,700
18	286,000	444	343,000	359,000	589	571,000	127,000	95	32,500
19	263,000	374	266,000	347,000	530	497,000	133,000	101	36,300
20	255,000	382	263,000	329,000	482	428,000	134,000	84	30,500
21	252,000	347	236,000	307,000	438	363,000	122,000	81	26,500
22	249,000	319	214,000	285,000	406	312,000	118,000	86	27,600
23	236,000	327	208,000	276,000	269	200,000	127,000	110	37,800
24	229,000	286	177,000	260,000	338	237,000	121,000	98	31,900
25	229,000	267	165,000	241,000	268	174,000	123,000	94	31,300
26	222,000	238	143,000	227,000	235	144,000	126,000	74	25,000
27	213,000	226	130,000	223,000	230	139,000	126,000	88	30,000
28	205,000	204	113,000	215,000	275	160,000	123,000	83	27,400
29	204,000	177	97,700	---	---	---	124,000	87	29,000
30	202,000	158	86,000	---	---	---	135,000	94	34,400
31	198,000	145	77,400	---	---	---	146,000	125	49,300
TOTAL	8,442,000	---	9,557,000	7,010,000	---	6,345,700	4,576,000	---	1,329,400

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	
		APRIL			MAY			JUNE		
1	155,000	100	41,600	228,000	263	162,000	183,000	157	77,500	
2	160,000	89	38,500	218,000	248	146,000	176,000	165	78,300	
3	170,000	85	38,900	205,000	250	139,000	173,000	146	68,300	
4	186,000	205	103,000	202,000	213	116,000	173,000	145	67,700	
5	191,000	195	101,000	195,000	210	110,000	168,000	132	59,900	
6	189,000	152	77,600	180,000	196	95,200	172,000	155	71,900	
7	187,000	151	76,200	162,000	184	80,400	220,000	184	109,000	
8	189,000	157	80,000	148,000	155	61,900	273,000	744	548,000	
9	192,000	164	84,900	144,000	164	63,600	276,000	693	517,000	
10	194,000	151	79,100	142,000	169	64,800	269,000	645	468,000	
11	201,000	148	80,200	140,000	135	51,200	277,000	721	539,000	
12	211,000	159	90,800	141,000	125	47,800	288,000	821	638,000	
13	229,000	214	132,000	140,000	104	39,300	277,000	668	500,000	
14	263,000	240	171,000	161,000	115	50,000	300,000	606	491,000	
15	289,000	290	226,000	179,000	172	82,900	332,000	787	705,000	
16	305,000	518	427,000	204,000	248	137,000	339,000	967	885,000	
17	302,000	577	471,000	266,000	642	461,000	315,000	877	746,000	
18	286,000	439	339,000	264,000	969	691,000	286,000	676	522,000	
19	266,000	345	248,000	248,000	986	660,000	270,000	463	338,000	
20	249,000	265	178,000	236,000	883	563,000	253,000	514	351,000	
21	239,000	251	162,000	231,000	661	412,000	243,000	422	277,000	
22	237,000	249	159,000	229,000	597	369,000	235,000	353	224,000	
23	242,000	218	142,000	227,000	519	318,000	229,000	269	167,000	
24	261,000	228	161,000	216,000	319	186,000	226,000	297	181,000	
25	261,000	229	162,000	212,000	336	192,000	220,000	245	146,000	
26	264,000	335	239,000	220,000	325	193,000	216,000	209	122,000	
27	262,000	493	349,000	216,000	297	173,000	210,000	200	113,000	
28	255,000	370	255,000	206,000	283	158,000	203,000	152	83,400	
29	245,000	357	236,000	198,000	246	131,000	205,000	171	94,400	
30	234,000	296	187,000	195,000	221	116,000	205,000	153	84,900	
31	---	---	---	190,000	179	91,800	---	---	---	
TOTAL	6,914,000	---	5,135,800	6,143,000	---	6,161,900	7,212,000	---	9,273,300	
		JULY			AUGUST			SEPTEMBER		
1	201,000	207	112,000	98,800	103	27,400	127,000	283	97,200	
2	194,000	210	110,000	99,800	102	27,600	128,000	238	82,300	
3	194,000	166	87,100	95,700	101	26,000	113,000	168	51,200	
4	197,000	250	133,000	84,900	130	29,700	94,100	199	50,400	
5	196,000	249	132,000	86,300	172	40,000	84,500	190	43,400	
6	193,000	242	126,000	78,900	167	35,500	83,400	181	40,800	
7	189,000	235	120,000	81,500	175	38,500	78,400	149	31,600	
8	185,000	246	123,000	86,900	137	32,200	78,000	135	28,500	
9	184,000	232	115,000	78,500	109	23,100	85,600	112	25,800	
10	173,000	189	88,100	77,400	95	19,900	92,000	103	25,700	
11	160,000	173	74,500	73,900	96	19,200	86,700	83	19,300	
12	154,000	163	67,700	73,400	104	20,700	80,700	88	19,300	
13	146,000	154	60,700	83,200	87	19,500	76,800	104	21,500	
14	136,000	132	48,500	90,100	123	29,900	82,300	100	22,300	
15	134,000	114	41,200	89,200	100	24,100	82,100	129	28,600	
16	126,000	110	37,400	92,000	110	27,400	84,900	94	21,500	
17	115,000	95	29,400	86,300	105	24,500	89,500	103	25,000	
18	106,000	104	29,800	81,100	104	22,900	90,400	164	40,000	
19	103,000	79	22,000	85,600	128	29,500	86,600	107	25,000	
20	96,800	73	19,100	95,100	153	39,400	93,900	127	32,300	
21	97,000	71	18,700	106,000	189	54,000	98,900	117	31,100	
22	98,700	74	19,600	109,000	184	54,100	112,000	238	71,900	
23	93,200	80	20,100	105,000	187	53,100	107,000	272	78,700	
24	92,500	226	56,500	116,000	200	62,700	102,000	165	45,500	
25	103,000	74	20,600	117,000	242	76,600	103,000	126	35,100	
26	109,000	72	21,100	109,000	294	86,600	106,000	122	34,900	
27	106,000	83	23,900	98,100	304	80,400	103,000	102	28,300	
28	101,000	101	27,500	111,000	328	98,400	113,000	120	36,700	
29	107,000	103	29,700	127,000	342	117,000	131,000	139	49,200	
30	104,000	95	26,800	134,000	431	156,000	126,000	---	---	
31	97,300	83	21,800	129,000	306	107,000	---	---	---	
TOTAL	4,291,500	---	1,862,800	2,979,700	---	1,502,900	2,919,800	---	1,143,100	

e Estimated

07010022 RIVER DES PERES NEAR UNIVERSITY CITY, MO

LOCATION.--Lat 38°40'06", long 90°19'25", St. Louis County, Hydrologic Unit 07140101, on top of left downstream abutment of Purdue Ave. bridge, 3.78 mi south of Interstate 70, and 2.01 mi east of Interstate 170.

DRAINAGE AREA.--8.94 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 491.97 ft above National Geodetic Vertical Datum of 1929.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	60	11	18	1.5	1.8	0.77	1.0	0.66	0.12	0.15	e0.17
2	0.07	3.5	2.6	18	1.8	1.7	0.75	0.89	0.60	0.11	0.16	e0.16
3	0.08	10	1.4	227	3.6	1.4	0.76	0.87	0.63	0.10	0.16	e0.14
4	0.40	4.1	1.1	312	1.6	1.5	0.74	0.80	0.57	0.18	0.15	e0.14
5	0.08	0.99	15	390	1.6	1.3	0.73	0.80	0.56	0.21	3.3	e0.14
6	0.09	0.83	39	30	5.7	1.3	0.86	0.76	4.1	0.17	0.16	e0.15
7	0.11	0.73	104	9.5	34	6.5	0.76	0.74	2.6	0.19	0.15	e0.17
8	2.4	0.70	4.3	9.6	8.5	1.7	0.66	0.70	52	0.16	0.12	e0.19
9	0.08	0.75	3.8	6.7	15	1.4	0.65	0.69	147	0.12	0.06	e0.19
10	0.07	0.87	3.1	4.6	3.2	1.4	0.65	0.94	7.3	0.07	0.01	e0.19
11	7.1	115	7.0	11	2.2	1.4	4.1	0.65	36	39	2.6	e0.18
12	40	4.9	1.9	134	2.3	1.4	19	0.65	4.4	37	0.55	e0.18
13	2.1	1.2	1.6	305	93	1.2	3.8	0.61	5.0	0.56	72	e0.17
14	25	0.87	1.4	16	9.1	1.2	0.87	8.7	6.1	1.3	12	e4.1
15	4.7	0.65	1.4	7.0	4.5	1.2	0.69	0.68	0.84	10	57	103
16	0.84	0.68	1.5	4.9	3.0	2.8	0.65	0.57	0.57	0.30	12	1.2
17	0.80	0.71	1.5	3.8	2.2	1.4	0.61	0.53	0.81	0.15	0.26	0.40
18	56	19	1.4	3.2	1.9	1.4	0.60	0.52	0.42	17	9.7	0.38
19	1.4	20	1.0	7.3	1.5	2.8	0.57	0.72	0.42	0.70	0.24	e17
20	0.91	1.1	0.69	3.7	1.9	2.8	34	16	0.35	0.17	0.15	53
21	0.86	0.80	1.1	2.5	1.5	2.6	5.3	0.63	0.24	0.15	0.14	0.50
22	0.81	15	0.97	1.4	1.2	85	51	4.1	0.26	0.15	0.14	0.41
23	21	1.2	0.55	1.4	1.2	14	4.6	0.64	0.24	0.15	0.14	0.37
24	0.95	170	1.2	1.8	2.9	9.3	1.3	0.54	0.22	0.14	0.15	0.39
25	0.84	13	1.4	2.5	1.8	7.9	1.5	0.53	0.26	0.13	117	126
26	46	5.1	1.1	2.0	1.5	1.6	13	0.53	0.23	0.62	33	3.6
27	5.7	19	0.76	1.4	1.4	1.3	1.5	0.63	0.20	5.5	0.79	0.29
28	0.97	2.2	1.4	1.3	4.4	1.2	6.1	0.90	0.16	0.19	0.30	58
29	0.87	23	1.9	8.1	---	1.1	8.1	0.75	0.14	0.18	0.71	1.8
30	1.1	51	1.0	4.1	---	1.1	1.8	0.55	0.13	0.25	0.36	0.31
31	0.86	---	1.6	2.1	---	0.80	---	0.58	---	0.85	0.22	---
MEAN	7.20	18.2	7.02	50.0	7.64	5.27	5.55	1.55	9.10	3.74	10.4	12.4
MAX	56	170	104	390	93	85	51	16	147	39	117	126
MIN	0.07	0.65	0.55	1.3	1.2	0.80	0.57	0.52	0.13	0.07	0.01	0.14
IN.	0.93	2.28	0.91	6.45	0.89	0.68	0.69	0.20	1.14	0.48	1.35	1.55

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

MEAN	7.56	8.52	5.76	13.6	10.0	12.5	10.5	17.9	21.3	8.88	6.16	7.79
MAX	18.5	18.2	13.3	50.0	27.7	33.4	18.4	41.1	39.0	20.1	10.4	26.4
(WY)	(2002)	(2005)	(2002)	(2005)	(1999)	(1998)	(2002)	(2004)	(2003)	(1998)	(2005)	(2003)
MIN	3.11	1.17	1.23	2.36	2.78	3.61	3.81	1.55	4.87	0.87	0.95	0.26
(WY)	(1998)	(2000)	(1999)	(2000)	(2002)	(2000)	(2000)	(2005)	(2004)	(2001)	(2001)	(2004)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1997 - 2005

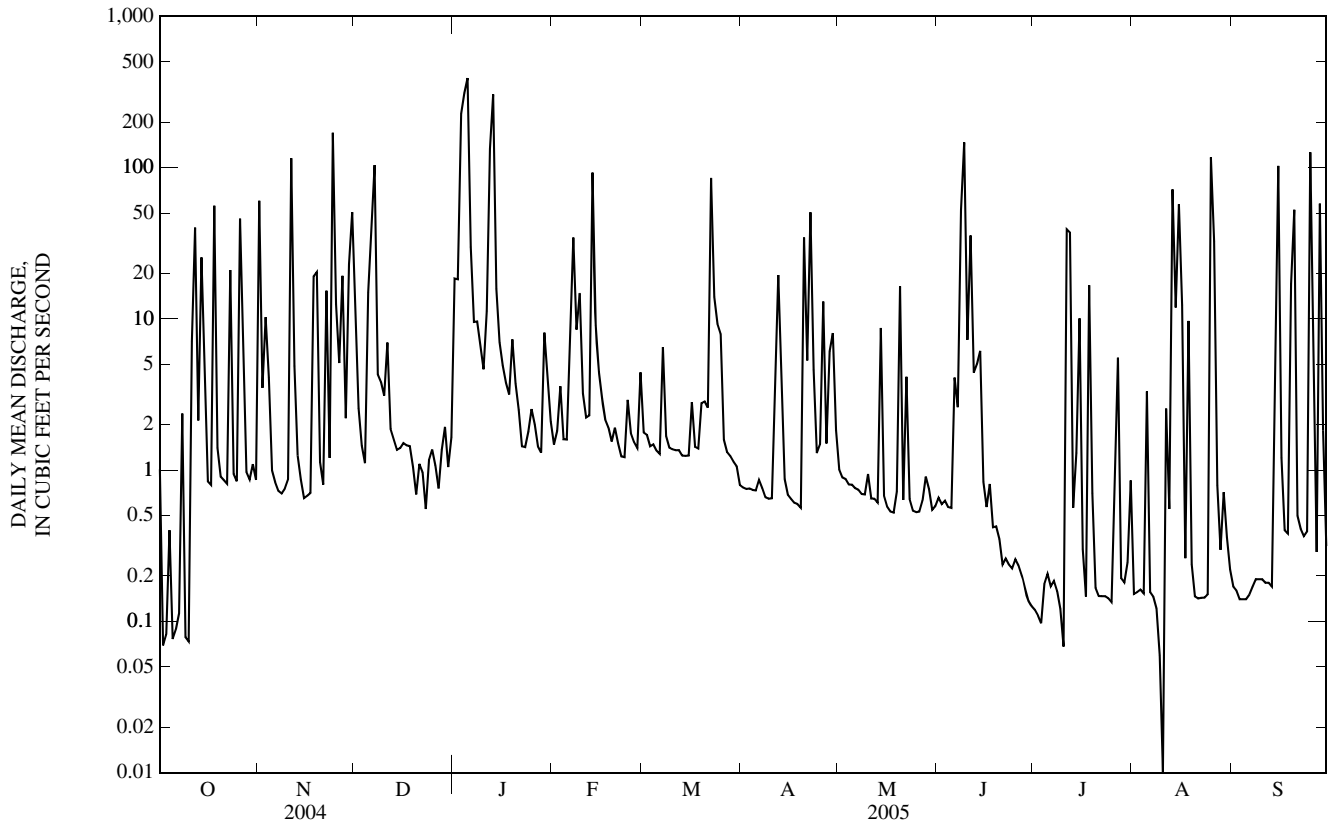
ANNUAL MEAN	12.3	11.5	10.9
HIGHEST ANNUAL MEAN			13.7
LOWEST ANNUAL MEAN			5.55
HIGHEST DAILY MEAN	320	Mar 26	390
LOWEST DAILY MEAN	0.00	Jul 1	0.01
ANNUAL SEVEN-DAY MINIMUM	0.05	Jun 25	0.13
MAXIMUM PEAK FLOW	---		3,340 ^a
MAXIMUM PEAK STAGE	---		14.20
INSTANTANEOUS LOW FLOW	---		0.00
ANNUAL RUNOFF (INCHES)	18.68		17.54
10 PERCENT EXCEEDS	23		20
50 PERCENT EXCEEDS	1.2		0.53
90 PERCENT EXCEEDS	0.11		0.00

e Estimated

^a From rating extended above 563 ft³/s on basis of indirect measurement.

^b Discharge determined by indirect measurement of peak flow.

07010022 RIVER DES PERES NEAR UNIVERSITY CITY, MO—Continued



07010022 RIVER DES PERES NEAR UNIVERSITY CITY, 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, mg/L (00915)	Magnesium, water, mg/L (00925)
OCT 05...	1345	Environmental	.07	.9	11.7	118	8.3	618	15.6	180	47.6	15.5
12...	1614	Environmental	177	5.4	7.0	73	7.3	223	15.8	61	19.4	3.15
MAR 22...	0949	Environmental	109	2.3	12.3	103	7.8	315	6.4	120	33.6	9.31
APR 25...	1300	Environmental	1	6.7	9.5	98	7.6	927	15.5	240	69.7	17.0
JUN 22...	1100	Environmental	.26	7.5	4.4	53	7.3	900	23.9	270	75.1	19.1
AUG 08...	1325	Blank	--	--	--	--	--	--	--	--	<.02	<.008
08...	1330	Environmental	1.3	10	2.2	27	7.4	625	25.7	200	60.5	12.4

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, ftrd, mg/L as N (00608)	Nitrite + nitrate water ftrd, mg/L as N (00631)	Nitrite water, ftrd, mg/L as N (00613)	Orthophosphate, water, ftrd, 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...	100	100	108	7	<10	.92	.05	.49	.078	.04	.16	20	220
12...	53	49	60	<1	383	4.6	.24	.53	.031	.20	1.24	140	110,000
MAR 22...	82	78	E95	<1	375d	6.4d	.51	.72	.061	<.02	1.24	150	7,800
APR 25...	144	146	178	<1	13	4.2	2.06d	.46	.055	.35	.51	60	9,800
JUN 22...	87	89	109	<1	<10	.59	.14	.14	.036	.02	.11	<10	4,200
AUG 08...	--	--	--	--	<10	<.10	E.03n	<.06	<.008	<.02	<.04	<10	--
08...	129	131	160	<1	<10	1.3	.18	E.03n	.010	.14	.41	30	11,000

Date	Fecal coliform, M-FC 0.7 μ MF col/100 mL (31625)	Aluminum, water, ftrd, μ g/L (01106)	Arsenic, water, ftrd, μ g/L (01000)	Beryllium, water, ftrd, μ g/L (01010)	Cadmium, water, ftrd, μ g/L (01025)	Chromium, water, ftrd, μ g/L (01030)	Copper, water, ftrd, μ g/L (01040)	Iron, water, ftrd, μ g/L (01046)	Lead, water, ftrd, μ g/L (01049)	Manganese, water, ftrd, μ g/L (01056)	Mercury water, unfltrd recoverable, μ g/L (71900)	Nickel, water, ftrd, μ g/L (01065)	Selenium, water, ftrd, μ g/L (01145)
OCT 05...	2,000	7	1.7	<.06	<.04	<.8	2.2	16	<.08	57.6	<.01	2.40	.7
12...	100,000	9	1.4	<.06	E.02n	E.7n	2.5	88	.39	224	.37d	1.76	.6
MAR 22...	33,000	9	.9	<.06	.06	2.8	3.2	31	.20	216	.04	3.59	.9
APR 25...	7,700k	9	1.3	<.06	E.03n	<.8	2.8	129	.24	167	<.01	2.44	1.2
JUN 22...	4,200	6	2.2	<.06	E.02n	<.8	2.1	44	E.05n	105	<.01	4.66	.9
AUG 08...	--	2	<.2	<.06	<.04	<.8	<.4	E3n	<.08	<.6	<.01	<.06	<.4
08...	6,000	9	3.4	<.06	E.03n	<.8	1.4	76	.08	668	<.01	3.48	E.4n

07010022 RIVER DES PERES NEAR UNIVERSITY CITY, 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
12...	<.2	6.9
MAR		
22...	<.2	9.5
APR		
25...	<.2	8.9
JUN		
22...	<.2	3.0
AUG		
08...	<.2	<.6
08...	<.2	3.6

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

07010030 RIVER DES PERES TRIBUTARY AT PAGEDALE, MO

LOCATION.--Lat 38°40'37", long 90°18'53", St. Louis County, Hydrologic Unit 07140101, on right culvert wall next to sidewalk handrail at Page Ave., 3.04 mi south of Interstate 70, and 2.37 mi east of Interstate 170.

DRAINAGE AREA.--2.01 mi².

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 504.56 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Record 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	0.01	7.9	2.5	3.8	0.73	0.48	0.46	e0.46	0.09	0.03	0.02	0.04
2	0.02	0.63	1.2	4.6	e1.0	0.44	0.43	e0.32	0.10	0.04	0.00	0.03
3	0.15	1.1	0.91	101	0.72	0.43	0.41	e0.26	0.16	0.04	0.00	0.03
4	0.00	0.63	0.74	121	0.69	0.44	0.39	e0.24	0.08	0.17	0.00	0.03
5	0.00	0.24	2.0	165	1.4	0.41	0.37	e0.22	0.07	0.04	0.84	0.03
6	0.62	0.16	18	26	1.4	0.39	0.42	e0.20	0.83	0.03	0.00	0.03
7	0.01	0.17	46	6.9	7.2	1.5	0.34	e0.19	0.06	0.02	0.00	0.03
8	0.34	0.26	1.8	4.1	2.5	0.45	0.29	e0.17	7.8	0.02	0.00	0.04
9	0.06	0.13	1.2	3.3	3.7	0.43	0.28	e0.15	19	0.02	0.00	0.04
10	0.01	0.11	1.0	1.6	1.2	0.45	0.26	0.33	1.1	0.02	0.00	0.04
11	0.03	17	1.4	3.1	0.96	0.46	0.30	0.17	0.76	6.1	0.61	0.04
12	2.7	1.3	0.80	44	0.89	0.46	e8.2	0.14	0.28	7.7	0.04	0.04
13	0.32	0.55	0.73	91	30	0.43	e1.0	0.13	0.42	1.0	11	0.04
14	2.0	0.43	0.72	8.0	4.4	0.39	e0.59	1.6	0.81	0.23	3.5	2.2
15	0.63	0.32	0.76	2.1	2.3	0.34	e0.42	0.24	2.1	0.37	8.8	17
16	0.18	0.25	0.73	1.7	1.6	0.35	e0.33	0.16	0.08	0.07	2.5	0.65
17	0.12	0.21	0.72	1.1	1.1	0.38	e0.29	0.16	0.03	0.05	0.18	0.24
18	5.2	1.4	0.72	1.0	0.93	0.38	e0.25	0.16	0.02	2.5	1.0	0.19
19	1.1	2.0	0.71	1.4	0.79	0.43	e0.22	0.15	0.01	0.14	0.25	14
20	0.17	0.42	0.70	1.2	0.87	0.43	e12	5.9	0.00	0.05	0.08	10
21	0.11	0.28	0.72	1.1	0.70	0.43	e2.0	0.42	0.00	0.02	0.06	0.54
22	0.08	1.7	0.55	1.0	0.59	26	e21	1.2	0.00	0.02	0.05	0.28
23	2.3	0.40	0.48	0.96	0.57	4.8	e2.1	0.35	0.00	0.02	0.06	0.18
24	0.20	42	0.48	0.96	0.80	4.1	e0.70	0.29	0.00	0.02	0.05	0.13
25	0.13	2.2	0.50	1.0	0.56	3.6	e0.82	0.25	0.01	0.02	24	26
26	5.7	1.0	0.50	1.1	0.50	1.3	e5.0	0.21	4.5	1.1	5.5	2.0
27	0.87	2.9	0.50	0.89	0.48	1.0	e0.75	0.20	0.81	0.50	0.30	0.68
28	0.29	1.1	0.58	0.87	1.1	0.79	e2.9	0.19	0.48	0.01	0.07	12
29	0.21	3.1	0.65	1.6	---	0.64	e3.5	0.16	0.08	0.02	0.65	1.6
30	0.26	7.1	0.66	1.3	---	0.56	e0.76	0.15	0.04	0.01	0.10	0.64
31	0.19	---	0.81	0.91	---	0.48	---	0.10	---	0.01	0.06	---
MEAN	0.77	3.23	2.90	19.5	2.49	1.72	2.23	0.48	1.32	0.66	1.93	2.96
MAX	5.7	42	46	165	30	26	21	5.9	19	7.7	24	26
MIN	0.00	0.11	0.48	0.87	0.48	0.34	0.22	0.10	0.00	0.01	0.00	0.03
IN.	0.44	1.80	1.66	11.17	1.29	0.98	1.24	0.28	0.74	0.38	1.11	1.64

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

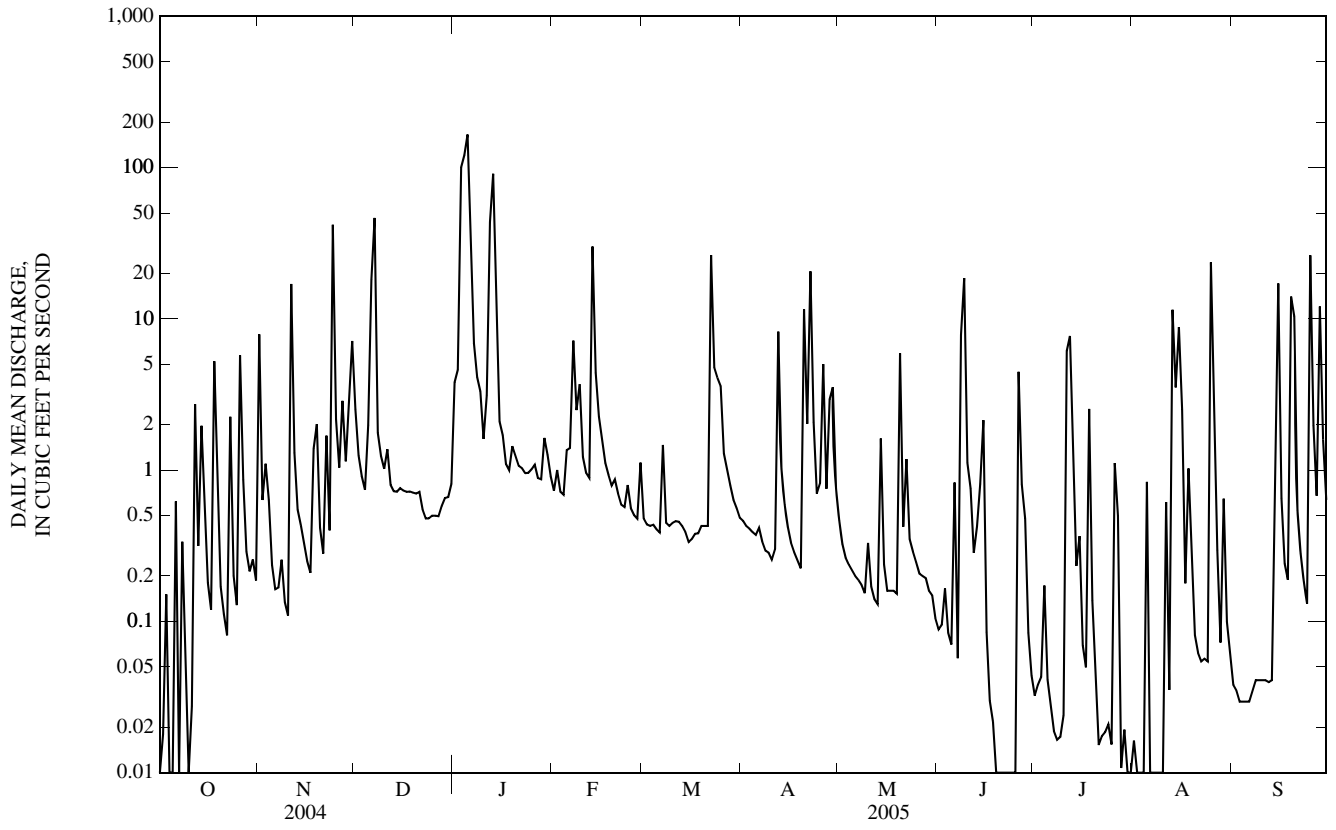
MEAN	0.97	1.45	1.09	3.85	2.10	2.36	1.75	2.99	3.48	1.45	1.27	1.12
MAX	2.59	3.40	2.90	19.5	7.35	6.56	3.06	7.63	6.10	6.51	2.79	2.99
(WY)	(2002)	(2004)	(2005)	(2005)	(1999)	(1998)	(1998)	(2004)	(2003)	(1998)	(2002)	(2003)
MIN	0.39	0.12	0.33	0.22	0.50	0.37	0.48	0.48	0.45	0.25	0.12	0.14
(WY)	(2000)	(2000)	(1999)	(2003)	(2002)	(2000)	(2000)	(2005)	(2001)	(1997)	(2001)	(1999)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1997 - 2005
ANNUAL MEAN	2.40	3.36	2.01
HIGHEST ANNUAL MEAN			3.36
LOWEST ANNUAL MEAN			0.69
HIGHEST DAILY MEAN	61	May 27	165
LOWEST DAILY MEAN	0.00	Oct 4,5	0.00
		Jan 5	165
		Oct 4,5,Jun 20-24,	0.00
		Aug 2-4,6-10	2001,2002,2005
ANNUAL SEVEN-DAY MINIMUM	0.02	Sep 26	0.00
MAXIMUM PEAK FLOW	---	903 ^a	1,290 ^a
MAXIMUM PEAK STAGE	---	7.95	8.84
INSTANTANEOUS LOW FLOW	---	0.00	0.00
ANNUAL RUNOFF (INCHES)	16.24	22.72	13.55
10 PERCENT EXCEEDS	3.1	5.1	3.0
50 PERCENT EXCEEDS	0.58	0.48	0.27
90 PERCENT EXCEEDS	0.13	0.03	0.05

e Estimated

^a From rating extended above 48 ft³/s on basis of indirect measurement.

07010030 RIVER DES PERES TRIBUTARY AT PAGEDALE, MO—Continued



07010035 ENGELHOLM CREEK NEAR WELLSTON, MO

LOCATION.--Lat 38°40'58", long 90°18'10", in NW ¼ NE ¼ SE ¼ sec.3, T.45 N., R.6 E., St. Louis County, Hydrologic Unit 07140101, on right downstream wingwall of Kingsland Ave. bridge, 0.25 mi south of St. Charles Rock Road, and 2.78 mi east of Interstate 170.

DRAINAGE AREA.--1.40 mi².

PERIOD OF RECORD.--June 1998 to current year. May 1997 to April 1998 published as Engelholm Creek at Pagedale (07010034).

REVISED RECORDS.--WDR MO-03-1: 1998-2002(P).

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

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	0.11	3.8	0.89	1.4	0.76	0.59	0.38	0.22	0.17	e0.10	0.11	0.20
2	0.12	0.50	0.46	1.2	0.81	0.57	0.38	0.22	0.19	e0.12	0.11	0.20
3	0.12	0.63	0.39	17	0.89	0.57	0.38	0.20	0.19	e0.10	0.11	0.20
4	0.13	0.50	0.35	33	0.78	0.59	0.39	0.20	0.19	e3.4	0.11	0.20
5	0.13	0.32	0.69	38	0.74	0.55	0.38	0.20	0.17	e0.36	0.12	0.20
6	0.13	0.31	4.6	3.1	0.98	0.57	0.40	0.20	0.25	0.10	0.13	0.22
7	0.13	0.35	11	1.6	2.2	0.77	0.39	0.17	0.12	0.09	0.13	0.22
8	0.25	0.40	0.99	1.5	1.0	0.56	0.38	0.17	e0.70	0.09	0.13	0.22
9	0.19	0.42	0.84	1.3	1.3	0.55	0.38	0.23	e4.8	0.09	0.13	0.22
10	0.15	0.42	0.80	1.2	0.72	0.80	0.40	0.27	e0.40	0.09	0.15	0.23
11	0.18	7.2	0.92	1.4	0.67	0.55	0.54	0.25	e0.74	0.91	0.28	0.25
12	1.3	0.56	0.74	24	0.64	0.55	0.90	0.27	e0.41	1.2	0.14	0.25
13	0.38	0.30	0.73	29	6.9	0.55	0.36	0.27	e0.33	0.16	1.9	0.25
14	1.0	0.26	0.69	1.7	1.3	0.55	0.31	0.38	e0.41	0.14	0.46	0.69
15	0.46	0.25	0.69	1.1	0.96	0.59	0.28	0.17	e0.28	0.27	2.1	6.4
16	0.39	0.26	0.69	0.88	0.80	0.57	0.28	0.20	e0.18	0.13	0.65	0.25
17	0.46	0.35	0.69	0.80	0.74	0.55	0.28	0.22	e0.13	0.13	0.23	0.21
18	2.1	0.79	0.69	0.70	0.69	0.55	0.28	0.22	e0.11	0.23	0.41	0.24
19	0.28	1.1	0.70	0.94	0.66	0.59	0.28	0.22	e0.10	0.13	0.23	5.9
20	0.25	0.43	0.71	0.86	0.72	0.55	0.68	0.72	e0.15	0.12	0.22	2.5
21	0.30	0.42	0.70	0.74	0.65	0.57	0.40	0.13	e0.13	0.11	0.22	0.26
22	0.33	0.91	0.69	0.78	0.60	5.8	2.1	0.16	e0.11	0.11	0.22	0.25
23	1.0	0.43	0.69	0.80	0.61	0.90	0.39	0.13	e0.10	0.11	0.25	0.25
24	0.36	13	0.69	0.84	0.70	0.71	0.25	0.14	e0.25	0.11	0.23	0.25
25	0.41	0.81	0.70	0.88	0.62	0.64	0.27	0.15	e0.85	0.11	3.4	8.9
26	2.7	0.49	0.73	0.82	0.59	0.43	0.45	0.15	e3.0	0.12	2.2	0.53
27	0.51	0.96	0.67	0.74	0.59	0.38	0.23	0.15	e0.51	0.23	0.32	0.27
28	0.42	0.41	0.68	0.75	0.77	0.37	0.35	0.17	e0.31	0.12	0.25	3.5
29	0.51	1.1	0.71	1.1	---	0.36	0.44	0.17	e0.15	0.11	0.28	0.43
30	0.64	2.7	0.76	1.0	---	0.36	0.25	0.17	e0.12	0.11	0.22	0.26
31	0.67	---	0.79	0.85	---	0.38	---	0.17	---	0.11	0.20	---
MEAN	0.52	1.35	1.16	5.48	1.05	0.73	0.44	0.22	0.52	0.30	0.50	1.13
MAX	2.7	13	11	38	6.9	5.8	2.1	0.72	4.8	3.4	3.4	8.9
MIN	0.11	0.25	0.35	0.70	0.59	0.36	0.23	0.13	0.10	0.09	0.11	0.20
IN.	0.43	1.07	0.96	4.52	0.78	0.60	0.35	0.18	0.41	0.25	0.42	0.90

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2005, BY WATER YEAR (WY)

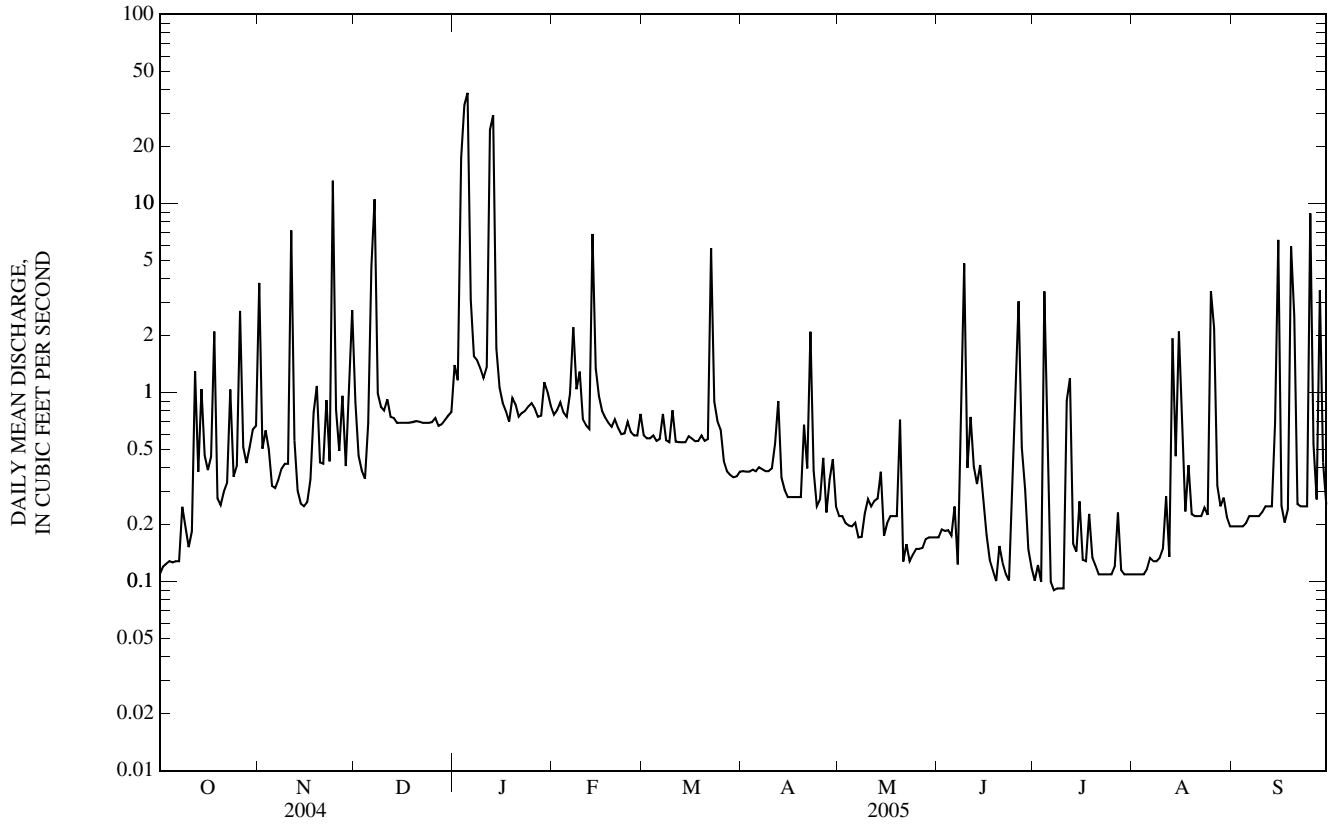
MEAN	0.72	0.99	0.78	1.80	1.26	1.31	1.08	1.85	1.66	0.99	0.64	0.64
MAX	1.15	2.13	1.51	5.48	3.65	3.22	2.04	4.63	4.80	3.80	1.40	1.63
(WY)	(2002)	(2004)	(2002)	(2005)	(1999)	(2004)	(2002)	(2004)	(2003)	(1998)	(1998)	(2003)
MIN	0.42	0.22	0.30	0.29	0.62	0.38	0.36	0.22	0.28	0.22	0.10	0.11
(WY)	(2001)	(2000)	(2001)	(2003)	(2002)	(2000)	(2000)	(2005)	(2001)	(2001)	(2001)	(2004)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1998 - 2005
ANNUAL MEAN	1.51	1.12	1.10
HIGHEST ANNUAL MEAN			1.58
LOWEST ANNUAL MEAN			0.40
HIGHEST DAILY MEAN		Mar 26	58
LOWEST DAILY MEAN	0.09	Sep 3-6,10,12,28	0.04
ANNUAL SEVEN-DAY MINIMUM	0.09	Aug 31	0.04
MAXIMUM PEAK FLOW	---	669 ^a	1,090 ^a
MAXIMUM PEAK STAGE	---	7.45	8.88
INSTANTANEOUS LOW FLOW	---	0.09	0.03
ANNUAL RUNOFF (INCHES)	14.69	10.86	10.67
10 PERCENT EXCEEDS	2.1	1.3	1.7
50 PERCENT EXCEEDS	0.58	0.40	0.30
90 PERCENT EXCEEDS	0.13	0.13	0.11

e Estimated

^a From rating extended above 52 ft³/s on basis of indirect measurement.

07010035 ENGELHOLM CREEK NEAR WELLSTON, MO—Continued



07010055 DEER CREEK AT LITZINGER ROAD, AT LADUE, MO

LOCATION.--Lat 38°37'20", long 90°22'31", St. Louis County, Hydrologic Unit 07140101, on left downstream side of bridge on Litzinger Rd., 0.60 mi south of I-40, 0.7 mi west of Hanley Road, and 1.1 mi north of Manchester Road.

DRAINAGE AREA.--12.0 mi².

PERIOD OF RECORD.--June 6, 2001 to current year.

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

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

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	51	20	6.4	0.82	1.2	1.1	0.52	0.00	0.00	0.00	0.00
2	0.00	5.0	6.2	7.8	0.65	0.95	0.50	0.16	0.00	0.00	0.00	0.00
3	0.00	2.7	4.7	256	1.6	0.84	0.43	0.03	0.00	0.00	0.00	0.00
4	0.00	4.0	1.8	587	0.94	1.1	0.36	0.00	0.00	0.00	0.00	0.00
5	0.00	1.4	8.0	619	0.66	0.89	0.34	0.00	0.00	3.6	22	0.00
6	0.00	0.38	24	54	1.4	0.65	0.28	0.00	0.00	0.11	1.1	0.00
7	0.00	0.00	175	9.4	29	4.6	0.13	0.00	0.00	0.00	0.03	0.00
8	0.00	0.00	8.6	6.0	13	0.97	0.16	0.00	2.2	0.04	0.00	0.00
9	0.00	0.00	3.9	3.5	13	0.55	0.10	0.00	192	0.00	0.00	0.00
10	0.00	0.00	2.5	2.4	4.0	0.52	0.02	0.00	8.4	0.00	0.00	0.00
11	3.1	121	4.2	9.6	2.7	0.70	1.8	0.00	60	14	0.00	0.00
12	33	8.6	1.4	133	2.4	0.75	21	0.00	8.8	27	0.00	0.00
13	2.5	1.3	0.54	863	122	0.62	5.7	0.00	4.6	0.90	71	0.00
14	13	0.26	0.21	27	18	0.44	1.0	3.7	6.3	2.7	17	6.2
15	6.6	0.01	0.16	7.3	6.6	0.52	0.21	0.13	0.48	44	28	96
16	0.05	0.00	0.12	4.1	4.2	0.53	0.04	0.01	0.04	3.8	17	2.2
17	0.00	0.00	0.10	2.6	3.1	0.42	0.00	0.00	0.00	0.39	0.64	0.03
18	31	11	0.09	2.2	2.6	0.79	0.00	0.00	0.00	5.8	8.1	0.00
19	1.9	22	0.07	4.2	2.1	0.63	0.00	0.00	0.00	1.8	0.46	39
20	0.03	2.1	0.06	3.7	2.4	0.26	8.5	13	0.00	0.07	0.01	157
21	0.00	0.40	0.06	2.4	1.8	0.18	3.1	1.00	0.00	0.00	0.00	0.99
22	0.00	11	0.05	1.6	1.5	63	47	1.7	0.00	0.00	0.14	0.06
23	11	1.5	0.04	0.99	1.3	32	5.8	0.13	0.00	0.00	0.24	0.03
24	0.22	240	0.03	1.1	2.6	7.4	1.3	0.00	6.2	0.00	0.00	0.01
25	0.00	21	0.03	1.2	1.7	10	0.41	0.00	7.6	0.00	165	111
26	21	7.6	0.03	1.4	1.3	3.2	6.0	0.00	7.7	0.00	38	9.3
27	9.4	20	0.03	0.92	1.0	2.1	0.77	0.00	7.6	1.9	2.6	0.52
28	0.30	4.2	0.04	0.69	2.6	1.6	4.7	0.05	8.0	0.04	0.10	70
29	0.01	19	0.05	4.3	---	1.8	7.5	0.46	5.9	0.00	0.00	6.0
30	0.00	63	0.04	2.7	---	1.6	2.9	0.00	0.17	0.00	0.00	0.42
31	0.00	---	0.05	1.6	---	0.96	---	0.00	---	0.00	0.00	---
MEAN	4.29	20.6	8.45	84.7	8.75	4.57	4.04	0.67	10.9	3.42	12.0	16.6
MAX	33	240	175	863	122	63	47	13	192	44	165	157
MIN	0.00	0.00	0.03	0.69	0.65	0.18	0.00	0.00	0.00	0.00	0.00	0.00
IN.	0.41	1.92	0.81	8.14	0.76	0.44	0.38	0.06	1.01	0.33	1.15	1.55

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

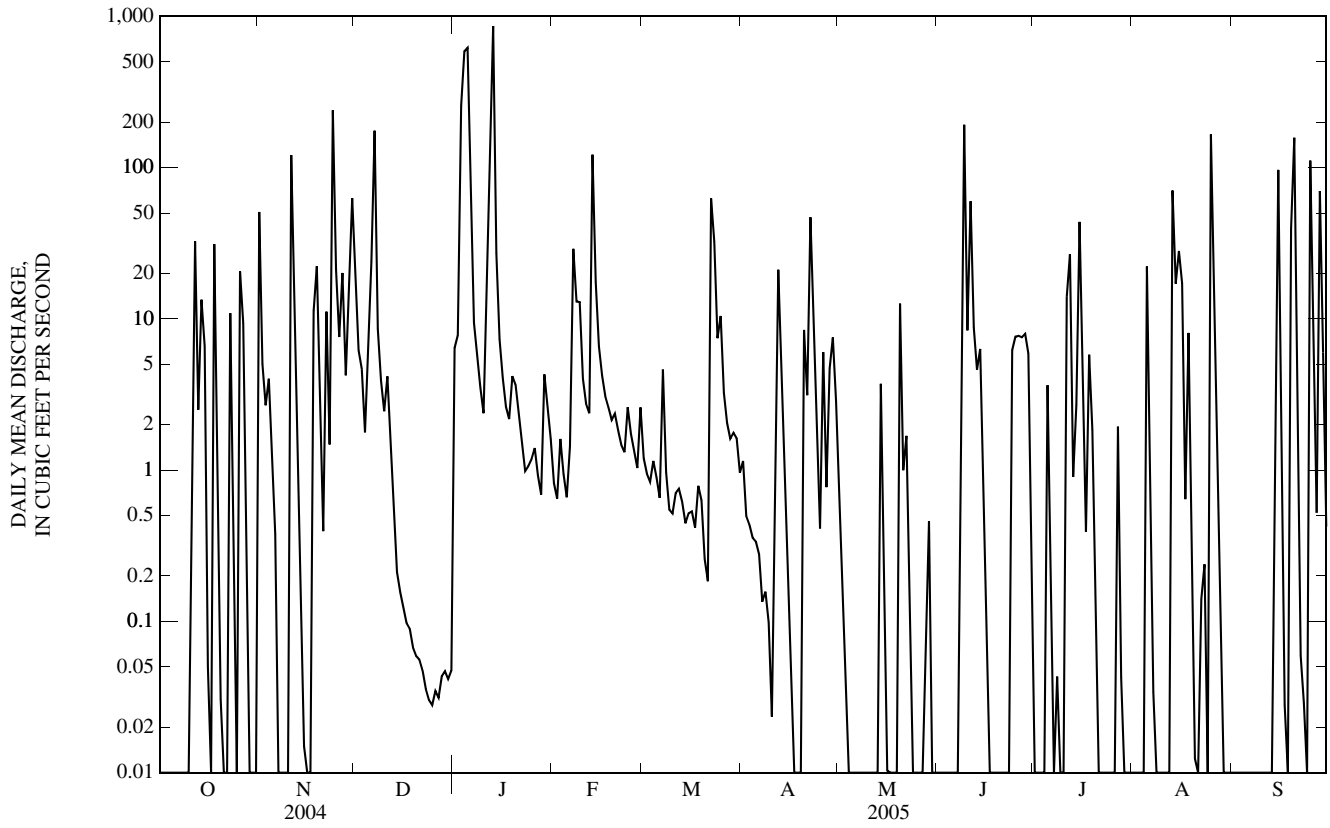
MEAN	7.79	16.0	7.69	29.4	5.24	13.5	7.42	24.8	23.5	10.2	4.45	12.4
MAX	12.7	32.5	13.6	84.7	8.75	26.6	10.3	56.5	50.7	37.7	12.0	36.4
(WY)	(2002)	(2004)	(2002)	(2005)	(2005)	(2004)	(2003)	(2004)	(2003)	(2004)	(2005)	(2003)
MIN	4.29	2.27	2.48	1.03	2.16	4.57	4.04	0.67	5.89	1.25	0.67	0.00
(WY)	(2005)	(2003)	(2003)	(2003)	(2002)	(2005)	(2005)	(2005)	(2004)	(2002)	(2001)	(2004)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 2001 - 2005
ANNUAL MEAN	16.5	15.0	13.9
HIGHEST ANNUAL MEAN			17.4
LOWEST ANNUAL MEAN			11.4
HIGHEST DAILY MEAN	573	863	863
LOWEST DAILY MEAN	0.00	0.00	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	0.00	0.00
MAXIMUM PEAK FLOW	---	6,130 ^a	6,130 ^a
MAXIMUM PEAK STAGE	---	13.71	13.71
INSTANTANEOUS LOW FLOW	---	0.00	0.00
ANNUAL RUNOFF (INCHES)	18.71	16.96	15.77
10 PERCENT EXCEEDS	21	21	21
50 PERCENT EXCEEDS	0.90	0.65	0.75
90 PERCENT EXCEEDS	0.00	0.00	0.00

^a From rating extended above 391 ft³/s on basis of indirect measurement.

07010055 DEER CREEK AT LITZINGER ROAD, AT LADUE, MO—Continued



MISSISSIPPI RIVER BASIN BELOW MISSOURI RIVER

07010070 SEBAGO CREEK NEAR ROCK HILL, MO

LOCATION.--Lat 38°36'54", long 90°22'35", St. Louis County, Hydrologic Unit 07140101, on left downstream side of bridge on Old Warson Road, 1.1 mi south of I-40, 0.75 mi west of Hanley Road, and 0.60 mi north of Manchester

DRAINAGE AREA.--1.87 mi².

PERIOD OF RECORD.--July 27, 2001 to current year.

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

REMARKS.--Records fair except for estimated daily discharges and discharges above 40 ft³/s, 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	e0.00	e15	0.68	0.46	0.11	0.09	0.06	0.14	0.00	0.00	0.00	0.00
2	e0.00	e1.9	0.31	0.66	0.21	0.08	0.05	0.10	0.02	0.00	0.00	0.00
3	e0.00	e0.50	0.16	e33	0.26	0.08	0.05	0.09	0.01	0.00	0.00	0.00
4	e0.00	e0.70	0.10	e95	0.17	0.08	0.05	0.09	0.00	1.3	0.00	0.00
5	e0.00	e0.15	1.5	e60	0.11	0.07	0.16	0.07	0.00	0.01	1.1	0.00
6	e0.00	e0.03	5.0	1.7	0.85	0.07	0.06	0.06	0.61	0.00	0.00	0.00
7	0.00	e0.00	32	0.91	3.6	0.64	0.05	0.06	0.02	0.00	0.00	0.05
8	0.88	e0.00	0.43	1.2	0.78	0.08	0.05	0.05	1.3	0.00	0.00	0.00
9	0.00	e0.00	0.24	0.90	2.3	0.07	0.04	0.06	25	0.00	0.00	0.11
10	0.00	e0.00	0.18	0.53	0.34	0.06	0.04	0.05	0.32	0.00	0.00	0.00
11	1.1	e30	0.23	2.6	0.25	0.07	0.72	0.04	5.0	5.0	0.25	0.00
12	11	e0.90	0.10	19	0.22	0.06	8.8	0.04	0.07	3.8	0.01	0.00
13	0.02	e0.20	0.08	65	18	0.06	0.83	0.04	2.9	0.04	13	0.00
14	6.3	e0.02	0.08	1.5	1.2	0.05	0.10	1.2	0.29	0.30	3.9	1.4
15	0.02	e0.00	0.07	0.72	0.53	0.06	0.06	0.03	0.03	1.1	4.4	26
16	0.00	e0.00	0.07	0.56	0.32	0.06	0.05	0.02	0.02	0.02	0.28	0.25
17	0.00	e0.00	0.06	0.67	0.23	0.06	0.05	0.02	0.01	0.00	0.01	0.01
18	4.9	e1.7	0.06	e0.49	0.18	0.06	0.04	0.01	0.00	4.8	1.3	0.00
19	0.00	e3.5	0.05	3.0	0.15	0.06	0.04	0.49	0.00	0.10	0.01	15
20	0.00	e0.30	0.06	0.41	0.18	0.06	0.42	2.7	0.00	0.02	0.00	4.5
21	0.00	e0.00	0.06	0.30	0.12	0.06	5.0	0.05	0.00	0.00	0.00	2.5
22	0.00	0.50	0.04	0.23	0.10	13	11	0.65	0.00	0.00	3.4	0.02
23	0.20	0.06	e0.04	0.19	0.11	4.0	1.0	0.04	0.00	0.00	0.07	0.00
24	0.00	e55	e0.03	0.20	0.26	0.82	0.17	0.03	0.00	0.00	0.00	0.00
25	0.00	1.1	0.04	0.17	0.10	1.1	0.39	0.02	0.00	0.00	8.1	28
26	3.0	0.53	0.03	0.13	0.08	0.24	1.6	0.01	0.00	0.59	8.8	0.37
27	2.6	0.21	0.02	0.10	0.08	0.18	0.57	0.50	0.02	1.2	0.27	0.20
28	0.08	0.14	0.02	0.11	0.38	0.14	2.0	0.07	0.04	0.00	0.06	22
29	0.03	0.10	0.05	1.1	---	0.10	1.5	0.02	0.04	0.01	0.31	0.42
30	0.00	e19	0.06	0.28	---	0.08	0.35	0.05	0.00	0.00	0.01	0.20
31	0.00	---	e0.04	0.13	---	0.06	---	0.01	---	0.00	0.00	---
MEAN	0.97	4.38	1.35	9.40	1.11	0.70	1.18	0.22	1.19	0.59	1.46	3.37
MAX	11	55	32	95	18	13	11	2.7	25	5.0	13	28
MIN	0.00	0.00	0.02	0.10	0.08	0.05	0.04	0.01	0.00	0.00	0.00	0.00

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

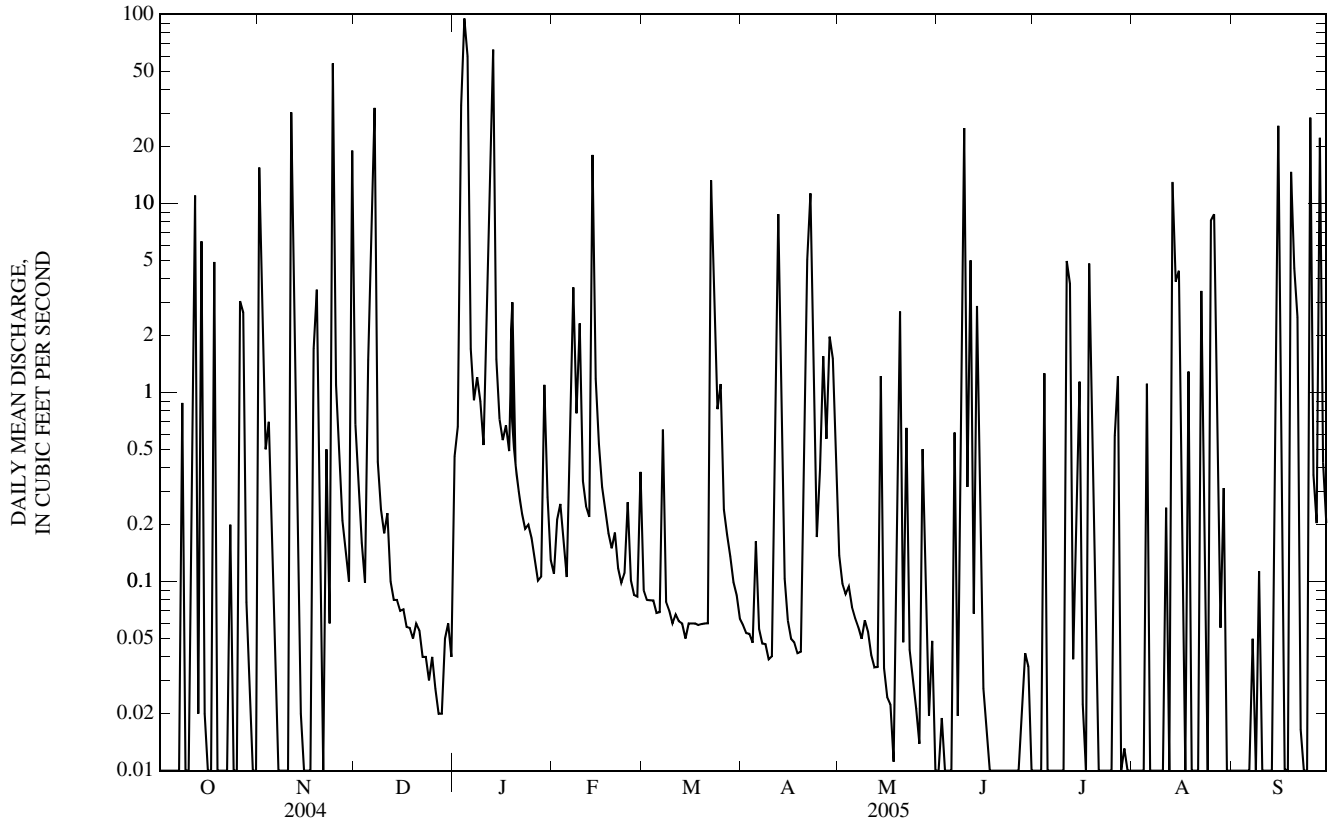
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
MEAN	1.32	2.11	1.17	3.42	0.72	1.78	1.95	3.98	2.48	2.18	0.68	1.77
MAX	1.93	4.38	2.15	9.40	1.11	3.15	2.81	7.35	5.28	6.53	1.46	4.23
(WY)	(2002)	(2005)	(2002)	(2005)	(2005)	(2004)	(2003)	(2004)	(2003)	(2004)	(2005)	(2003)
MIN	0.97	0.17	0.34	0.13	0.32	0.70	1.18	0.22	0.74	0.02	0.19	0.01
(WY)	(2005)	(2003)	(2003)	(2003)	(2002)	(2005)	(2005)	(2005)	(2004)	(2002)	(2001)	(2004)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 2001 - 2005
ANNUAL MEAN	2.53	2.16	2.00
HIGHEST ANNUAL MEAN			2.33
LOWEST ANNUAL MEAN			1.73
HIGHEST DAILY MEAN	114	95	114
LOWEST DAILY MEAN	0.00	0.00	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	0.00	0.00
MAXIMUM PEAK FLOW	---	642 ^a	Unknown
MAXIMUM PEAK STAGE	---	5.33	9.17
INSTANTANEOUS LOW FLOW	---	0.00	0.00
10 PERCENT EXCEEDS	3.6	3.5	3.8
50 PERCENT EXCEEDS	0.05	0.07	0.03
90 PERCENT EXCEEDS	0.00	0.00	0.00

e Estimated

^a From rating extended above 103 ft³/s on basis of indirect measurement.



07010075 DEER CREEK AT LADUE, MO

LOCATION.--Lat 38°36'59", long 90°21'51", St. Louis County, Hydrologic Unit 07140101, on left upstream bank at bridge to Rock Hill Quarry, on McCarthy Construction Company complex, 5 mi east of I-270, 0.93 mi south of Highway 64/40, 0.17 mi west of McKnight.

DRAINAGE AREA.--21.4 mi².

PERIOD OF RECORD.--May 31, 2001 to current year.

REVISED RECORDS.--WDR MO-03-1: 2001(M).

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

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

REVISIONS.--The maximum discharge for water year 2002 has been revised to 5,230 ft³/s, June 12, 2002, gage height, 16.30 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	0.00	e94	27	8.3	0.69	0.47	0.39	0.73	0.00	0.08	0.00	0.00
2	0.00	e7.8	6.1	12	0.60	0.28	0.14	0.23	0.26	0.00	0.00	0.00
3	0.00	3.5	4.6	484	3.7	0.23	0.04	0.21	0.00	0.00	0.00	0.00
4	0.00	6.3	2.0	792	1.5	0.34	0.03	0.22	0.00	1.3	0.00	0.00
5	0.00	1.2	7.9	1,270	0.36	0.24	0.10	e0.16	0.00	2.5	16	0.00
6	0.00	0.78	49	90	2.2	0.11	0.01	0.18	0.45	0.33	0.30	0.00
7	0.00	0.00	325	9.1	51	3.6	0.01	0.13	0.00	0.03	0.00	0.00
8	1.2	0.00	6.4	4.9	26	0.36	0.01	0.10	1.00	0.00	0.00	0.00
9	0.16	0.00	1.7	2.2	27	0.10	0.00	0.11	302	0.00	e0.00	0.00
10	0.00	0.00	0.77	0.62	7.6	0.13	0.00	0.10	12	0.00	0.00	0.00
11	2.9	262	2.2	16	3.6	0.26	1.4	0.08	83	14	0.00	0.00
12	58	10	0.30	121	2.6	0.35	107	0.01	8.6	28	0.00	0.00
13	5.0	0.70	0.19	1,280	228	0.29	17	0.00	5.8	0.99	130	0.00
14	20	0.05	1.7	44	27	0.27	1.5	2.4	6.8	0.76	e30	24
15	12	0.00	0.63	9.3	9.6	0.26	0.26	0.10	0.59	46	52	232
16	0.14	0.00	0.19	3.5	5.1	0.26	0.09	0.01	0.24	1.7	13	9.7
17	0.00	0.00	0.16	1.7	3.3	0.26	0.07	0.02	0.21	0.01	0.22	0.78
18	39	13	0.15	2.5	2.5	0.24	0.07	0.00	0.14	6.2	5.6	0.42
19	3.2	30	0.13	5.4	1.7	0.46	0.08	0.04	0.03	0.88	0.21	38
20	0.01	1.3	0.17	5.1	2.0	0.17	7.1	11	0.00	0.00	0.00	246
21	0.00	0.14	e0.15	2.5	0.95	0.17	8.4	0.52	0.01	0.00	0.00	6.9
22	0.00	12	0.17	1.3	0.61	115	92	1.0	0.00	0.00	3.5	0.31
23	16	0.67	0.08	0.61	0.95	48	8.3	0.12	0.00	0.00	0.46	0.18
24	0.43	476	0.09	0.71	1.2	6.6	1.8	0.01	3.5	0.00	0.00	0.04
25	0.00	32	e0.07	0.80	0.74	13	0.81	0.00	5.7	0.00	236	262
26	29	11	e0.08	0.77	0.50	2.1	8.2	0.00	5.8	0.00	59	17
27	15	32	e0.10	0.37	0.34	1.00	1.6	0.33	5.8	1.2	2.2	0.79
28	0.60	6.7	0.14	0.17	1.2	0.74	6.7	0.10	6.2	0.00	0.03	191
29	0.00	30	0.13	7.6	---	0.84	11	0.00	4.9	0.00	0.17	12
30	1.6	109	0.17	4.3	---	0.76	4.8	0.01	0.38	0.00	0.00	0.54
31	e0.00	---	0.12	2.2	---	0.33	---	0.02	---	0.00	0.00	---
MEAN	6.59	38.0	14.1	135	14.7	6.36	9.30	0.58	15.1	3.35	17.7	34.7
MAX	58	476	325	1,280	228	115	107	11	302	46	236	262
MIN	0.00	0.00	0.07	0.17	0.34	0.10	0.00	0.00	0.00	0.00	0.00	0.00
IN.	0.36	1.98	0.76	7.27	0.72	0.34	0.48	0.03	0.79	0.18	0.95	1.81

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

MEAN	14.0	26.6	13.6	49.6	7.91	21.4	14.7	44.2	29.4	16.2	6.59	22.1
MAX	25.1	50.7	26.0	135	14.7	41.3	20.1	92.2	71.8	60.5	17.7	61.0
(WY)	(2002)	(2004)	(2002)	(2005)	(2005)	(2004)	(2003)	(2004)	(2003)	(2004)	(2005)	(2003)
MIN	6.59	2.12	3.85	1.11	3.47	6.36	9.30	0.58	8.41	0.59	0.73	0.00
(WY)	(2005)	(2003)	(2003)	(2003)	(2002)	(2005)	(2005)	(2005)	(2001)	(2002)	(2001)	(2004)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

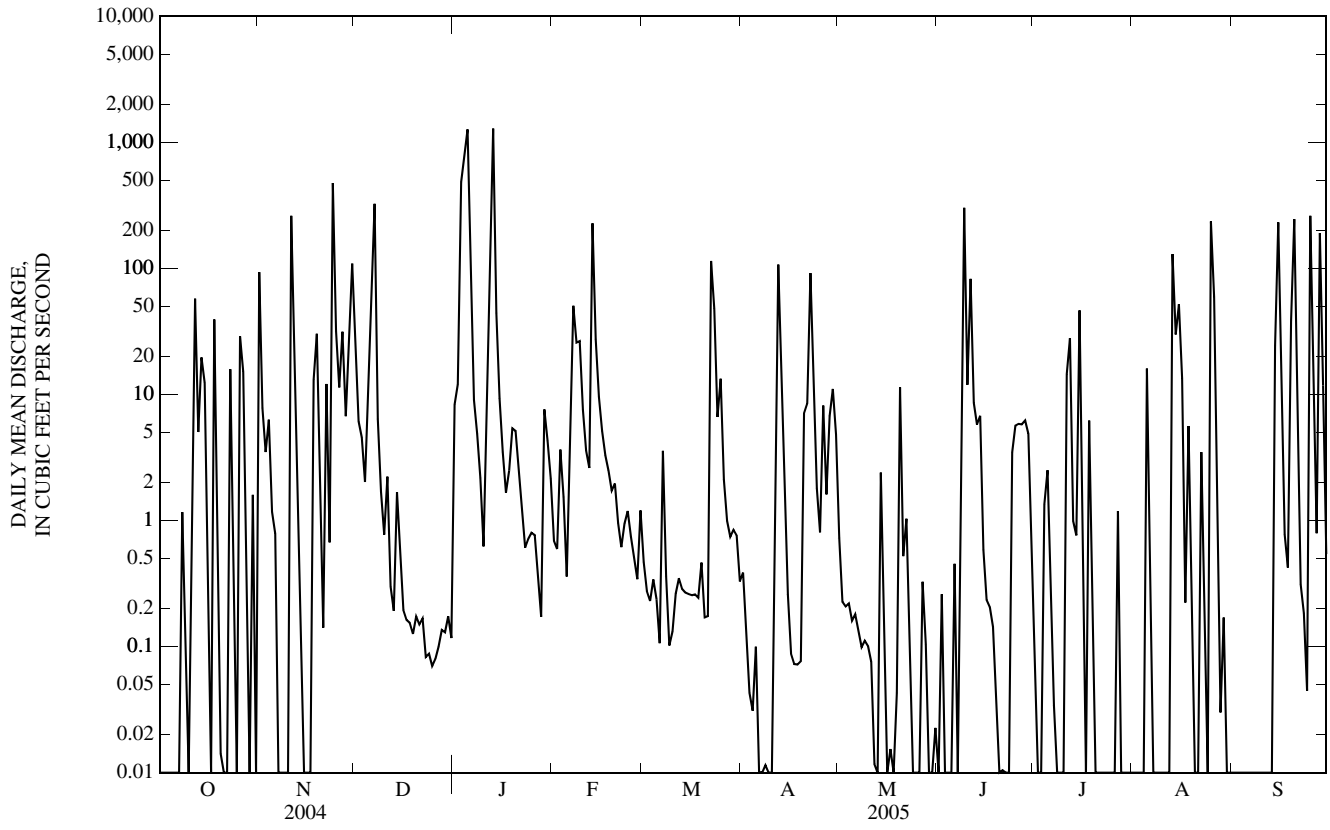
WATER YEARS 2001 - 2005

ANNUAL MEAN	27.5	24.7	23.3
HIGHEST ANNUAL MEAN			28.5
LOWEST ANNUAL MEAN			19.2
HIGHEST DAILY MEAN	840	Jan 4	1,280
LOWEST DAILY MEAN	0.00	Many Days	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	At Times	0.00
MAXIMUM PEAK FLOW	---		6,000 ^a
MAXIMUM PEAK STAGE	---		17.68
INSTANTANEOUS LOW FLOW	---		0.00
ANNUAL RUNOFF (INCHES)	17.50		15.68
10 PERCENT EXCEEDS	32		30
50 PERCENT EXCEEDS	0.31		0.46
90 PERCENT EXCEEDS	0.00		0.00

e Estimated

^a From rating extended above 364 ft³/s on basis of indirect measurement.

07010075 DEER CREEK AT LADUE, MO—Continued



07010082 BLACK CREEK NEAR BRENTWOOD, MO

LOCATION.--Lat 38°37'00", long 90°20'14", St. Louis County, Hydrologic Unit 07140101, on right upstream abutment on Litzinger Road, 0.9 mi south of I-40, 0.16 mi west of Hanley Road, and 0.35 mi north of Manchester Road.

DRAINAGE AREA.--5.8 mi².

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

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

REMARKS.--No estimated daily discharges. 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	0.57	36	7.9	4.7	1.5	0.58	0.59	0.83	0.48	0.36	0.32	0.42
2	2.8	3.1	2.6	7.9	1.3	0.58	0.48	0.83	0.44	0.40	0.46	0.59
3	0.50	6.6	1.6	116	2.2	0.55	0.39	0.64	0.40	0.29	0.31	0.30
4	0.62	3.2	1.2	306	1.8	0.86	0.46	0.59	0.36	2.7	0.34	0.34
5	0.48	1.2	5.9	378	0.90	0.47	0.48	0.51	0.27	0.69	3.7	0.25
6	0.44	1.0	19	17	2.1	0.37	0.53	0.55	4.5	0.72	0.62	0.33
7	0.48	0.96	86	4.3	11	4.2	1.1	0.56	0.65	0.34	0.39	0.36
8	3.8	0.94	3.0	4.9	4.8	0.63	0.43	0.49	18	0.26	0.39	0.35
9	0.70	0.97	1.9	3.7	8.4	0.47	0.46	0.47	263	0.31	0.43	0.27
10	0.46	1.1	1.8	2.6	2.9	0.44	0.54	0.50	3.9	0.27	0.37	0.28
11	3.4	69	3.8	9.0	1.6	0.44	2.0	0.46	8.7	16	1.2	0.26
12	19	5.2	1.2	4.7	0.97	0.43	11	0.49	1.7	16	1.0	0.29
13	1.5	2.2	1.1	597	48	0.38	2.2	0.47	5.5	1.2	53	0.75
14	9.5	2.2	1.4	12	5.5	0.44	0.66	4.7	2.3	0.79	14	7.4
15	2.4	1.6	1.0	2.9	2.7	0.62	0.52	1.8	0.76	1.1	18	117
16	0.65	1.9	1.0	2.3	2.1	0.71	0.56	0.72	0.57	0.50	8.0	2.5
17	0.82	1.5	0.95	1.4	1.2	0.93	0.42	0.67	0.57	0.42	1.1	0.68
18	15	11	0.88	0.90	0.99	0.47	0.46	0.52	0.46	16	6.6	1.6
19	0.96	13	0.72	2.0	0.89	0.26	0.42	1.1	0.49	1.1	0.99	4.0
20	0.61	2.4	0.67	1.2	1.2	0.22	24	10	0.70	0.63	0.56	139
21	0.60	1.7	0.75	0.91	0.94	0.24	7.3	0.63	0.54	0.53	0.56	0.85
22	0.63	11	0.68	0.72	0.76	47	42	2.4	0.42	0.49	0.91	0.40
23	11	2.3	0.54	0.53	0.74	8.6	3.3	0.58	0.38	0.40	0.65	0.34
24	0.60	130	0.49	1.3	1.8	3.8	1.1	0.48	0.46	0.42	0.53	0.37
25	0.82	8.2	0.59	1.8	0.75	4.7	1.2	0.44	0.43	0.48	132	87
26	16	2.9	0.66	0.56	0.57	1.3	5.3	0.42	0.41	1.1	24	4.6
27	4.9	11	0.62	0.59	0.58	1.3	0.96	2.1	0.58	4.1	1.6	1.4
28	0.81	2.4	0.83	0.44	2.0	1.1	5.6	0.91	0.50	0.53	0.77	45
29	0.70	14	0.87	5.0	---	0.74	6.4	0.48	0.38	0.36	0.63	3.2
30	2.2	29	0.78	2.2	---	0.64	1.9	0.59	0.35	0.35	0.61	1.2
31	1.1	---	0.92	1.8	---	1.0	---	0.44	---	0.33	0.49	---
MEAN	3.36	12.6	4.88	48.2	3.94	2.72	4.09	1.17	10.6	2.23	8.86	14.0
MAX	19	130	86	597	48	47	42	10	263	16	132	139
MIN	0.44	0.94	0.49	0.44	0.57	0.22	0.39	0.42	0.27	0.26	0.31	0.25
IN.	0.67	2.42	0.97	9.57	0.71	0.54	0.79	0.23	2.04	0.44	1.76	2.70

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

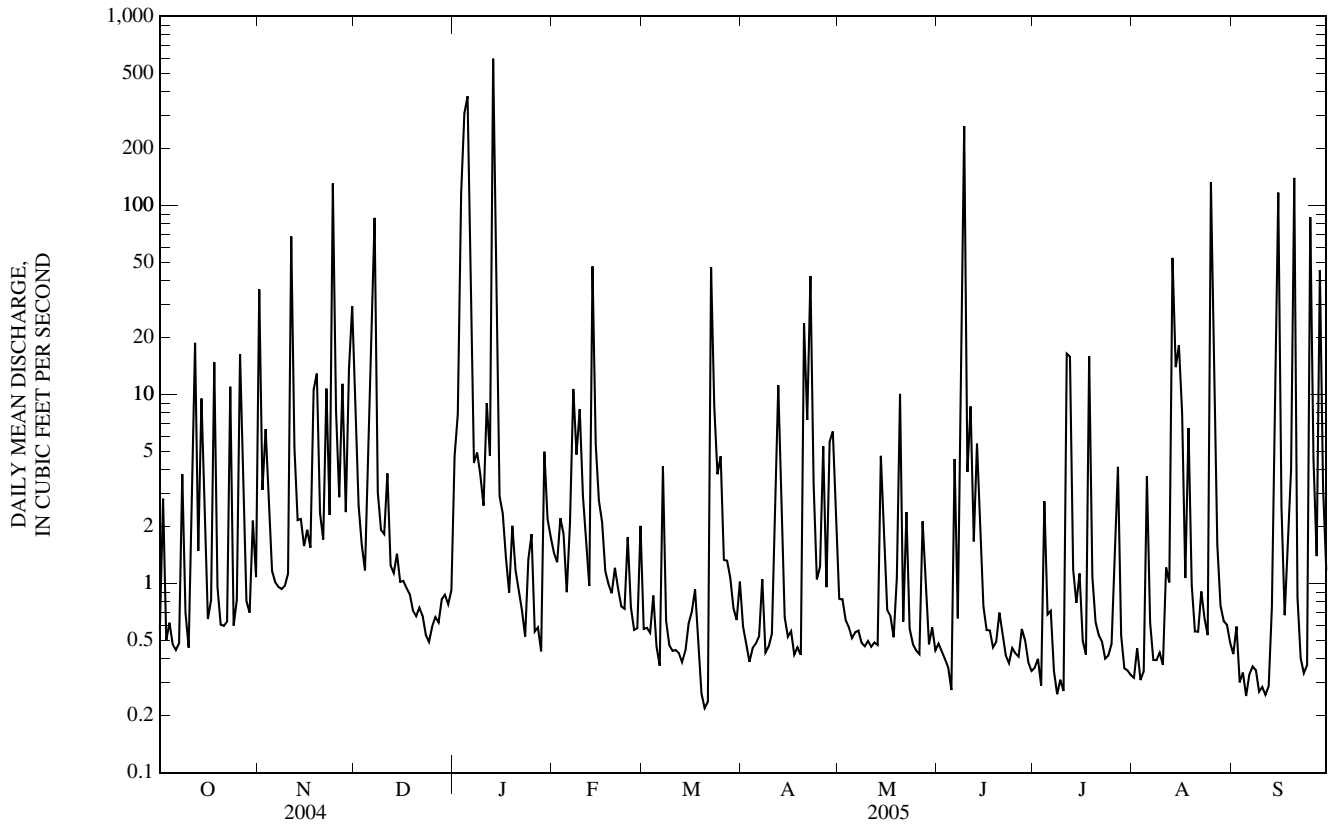
MEAN	3.36	12.6	4.88	48.2	3.94	2.72	5.11	21.2	6.80	16.8	7.37	7.37
MAX	3.36	12.6	4.88	48.2	3.94	2.72	6.13	41.3	10.6	31.4	8.86	14.0
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2005)	(2004)	(2005)	(2005)
MIN	3.36	12.6	4.88	48.2	3.94	2.72	4.09	1.17	3.00	2.23	5.89	0.69
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2005)	(2004)	(2004)

SUMMARY STATISTICS

	FOR 2005 WATER YEAR	WATER YEARS 2004 - 2005
ANNUAL MEAN	9.77	9.77
HIGHEST ANNUAL MEAN		9.77
LOWEST ANNUAL MEAN		9.77
HIGHEST DAILY MEAN	597	597
LOWEST DAILY MEAN	0.22	0.22
ANNUAL SEVEN-DAY MINIMUM	0.30	0.30
MAXIMUM PEAK FLOW	3,900 ^a	5,110 ^a
MAXIMUM PEAK STAGE	12.82	14.27
INSTANTANEOUS LOW FLOW	0.04	0.04
ANNUAL RUNOFF (INCHES)	22.82	22.84
10 PERCENT EXCEEDS	11	11
50 PERCENT EXCEEDS	0.91	0.91
90 PERCENT EXCEEDS	0.39	0.39

^a From rating extended above 913 ft³/s on basis of indirect measurement.

07010082 BLACK CREEK NEAR BRENTWOOD, MO—Continued



07010086 DEER CREEK AT MAPLEWOOD, MO

LOCATION.--Lat 38°36'03", long 90°19'34", St. Louis County, Hydrologic Unit 07140101, on right downstream pier of Big Bend Road bridge, 0.44 mi north of Interstate 44, 4.35 mi east of U.S. 67 (Lindbergh Blvd.), and 0.63 mi upstream of River Des Peres Drainage Channel.

DRAINAGE AREA.--36.5 mi².

PERIOD OF RECORD.--July 1996 to current year. Annual peaks only for 1969-1974 water years published in WRD MO 1974.

REVISED RECORDS.--WDR MO-03-1: 1996-2001(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 415.75 ft above National Geodetic Vertical Datum of 1929.

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

REVISIONS.--The maximum discharge for the water year 2002 has been revised to 4,280 ft³/s, June 12, 2002, gage height, 14.44 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	1.1	180	56	12	2.9	3.2	2.1	3.0	0.88	0.73	0.67	0.97
2	3.1	21	12	28	2.4	2.1	2.2	1.9	0.78	0.75	0.63	1.2
3	0.83	14	9.4	653	4.3	2.0	1.7	1.6	1.1	0.58	0.63	0.80
4	0.72	15	5.6	859	3.4	2.0	1.3	1.4	0.75	9.1	0.55	0.70
5	0.81	4.0	16	1,670	2.3	2.1	1.4	1.3	0.59	4.3	27	0.76
6	0.63	3.8	94	169	3.4	1.5	1.4	1.2	8.2	3.0	4.4	0.65
7	0.70	2.6	463	34	60	11	1.8	1.2	2.0	0.96	1.2	0.91
8	6.2	2.2	23	23	46	3.0	1.1	1.2	38	0.56	0.75	1.3
9	1.5	2.2	9.8	13	39	1.7	1.1	1.0	537	0.54	0.65	0.69
10	0.78	1.9	6.6	9.5	11	1.4	1.1	1.00	45	0.54	0.64	0.66
11	4.6	411	11	43	6.2	1.3	2.7	0.95	102	49	1.1	0.87
12	104	32	5.2	82	4.8	1.4	136	0.95	24	96	2.1	1.1
13	14	5.7	3.6	1,550	324	1.3	41	0.93	21	6.9	233	0.93
14	34	4.1	3.6	82	47	1.5	3.7	13	21	1.5	89	25
15	27	2.9	6.6	24	14	1.5	1.7	3.8	3.1	52	68	401
16	1.7	2.7	2.7	12	9.1	1.2	1.3	1.3	1.7	8.5	52	15
17	1.3	2.8	2.5	7.4	6.1	1.9	1.0	1.3	1.2	1.5	4.2	2.6
18	89	25	2.4	5.8	5.2	1.2	0.95	0.98	0.96	56	21	2.9
19	6.5	71	2.2	8.3	4.5	1.1	0.92	1.8	0.92	9.1	4.6	60
20	1.7	6.4	2.0	9.0	4.8	1.2	40	51	1.1	3.2	1.4	336
21	1.1	3.7	2.1	6.4	4.3	0.95	38	2.9	0.92	1.1	1.3	10
22	1.0	34	2.1	4.3	3.3	259	209	5.7	0.78	0.92	23	2.9
23	55	5.6	1.9	2.8	3.7	84	17	2.5	0.80	0.80	6.6	1.5
24	2.6	618	2.1	3.1	5.2	13	4.6	1.3	2.0	0.70	1.6	1.3
25	1.1	61	2.0	3.9	3.8	31	2.8	0.94	6.7	0.73	336	400
26	66	18	2.1	2.6	2.8	7.1	20	0.85	6.8	1.3	140	32
27	32	53	2.0	2.2	2.4	4.6	4.4	3.5	6.8	14	11	4.3
28	3.1	13	2.3	1.7	5.2	3.9	17	3.2	7.5	1.9	3.3	296
29	1.5	53	2.3	10	---	3.1	25	1.1	6.5	0.81	1.7	26
30	6.3	176	2.1	7.4	---	3.1	12	1.2	2.3	0.64	1.6	4.0
31	1.5	---	2.1	4.2	---	3.1	---	0.91	---	0.70	1.2	---
MEAN	15.2	61.5	24.5	172	22.5	14.7	19.8	3.71	28.4	10.6	33.6	54.4
MAX	104	618	463	1,670	324	259	209	51	537	96	336	401
MIN	0.63	1.9	1.9	1.7	2.3	0.95	0.92	0.85	0.59	0.54	0.55	0.65
IN.	0.48	1.88	0.77	5.45	0.64	0.47	0.61	0.12	0.87	0.33	1.06	1.66

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

MEAN	17.1	32.2	13.7	43.3	31.5	35.4	25.5	45.1	52.0	30.1	18.2	22.1
MAX	40.0	82.3	40.8	172	77.0	108	46.9	134	101	87.7	35.3	87.0
(WY)	(2002)	(1997)	(2002)	(2005)	(1999)	(1998)	(1998)	(2004)	(1998)	(2004)	(1996)	(2003)
MIN	8.23	1.93	2.09	2.85	9.52	7.92	9.27	3.71	14.1	2.23	3.67	1.23
(WY)	(1998)	(2000)	(1999)	(2003)	(2002)	(2000)	(2000)	(2005)	(2004)	(1997)	(2001)	(2004)

SUMMARY STATISTICS

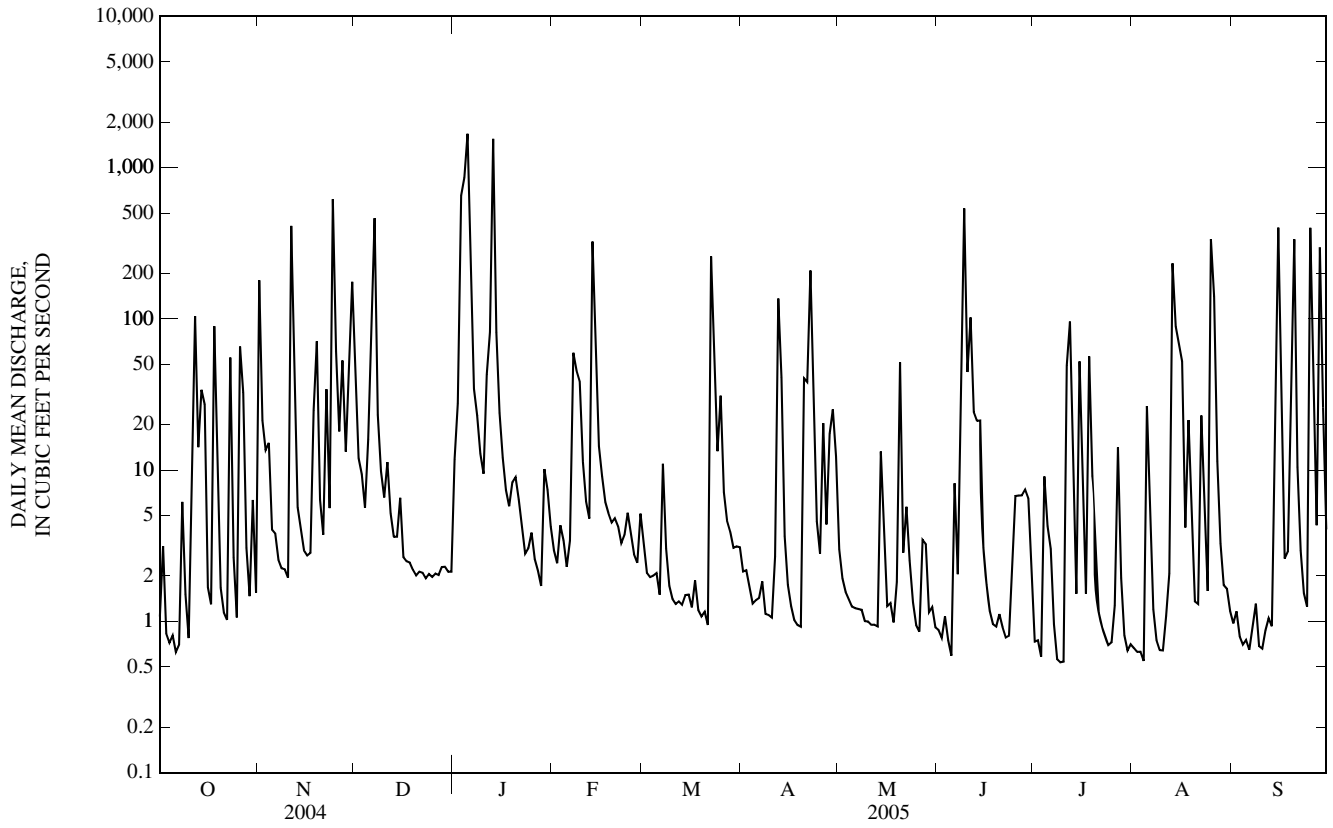
FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1996 - 2005

ANNUAL MEAN	42.8	38.5	30.3
HIGHEST ANNUAL MEAN			43.3
LOWEST ANNUAL MEAN			15.7
HIGHEST DAILY MEAN	1,100	Jan 4	1,980
LOWEST DAILY MEAN	0.63	Oct 6	0.24
ANNUAL SEVEN-DAY MINIMUM	0.83	Sep 23	0.30
MAXIMUM PEAK FLOW	---		5,560 ^a
MAXIMUM PEAK STAGE	---		16.57
INSTANTANEOUS LOW FLOW	---		0.09
ANNUAL RUNOFF (INCHES)	15.98		11.27
10 PERCENT EXCEEDS	71		53
50 PERCENT EXCEEDS	3.2		2.5
90 PERCENT EXCEEDS	1.3		0.85

^a From rating extended above 1,050 ft³/s on basis of indirect measurement.



MISSISSIPPI RIVER BASIN BELOW MISSOURI RIVER

07010090 MACKENZIE CREEK NEAR SHREWSBURY, MO

LOCATION.--Lat 38°34'36", long 90°19'25", St. Louis County, Hydrologic Unit 07140101, on right downstream bridge abutment at Resurrection Cemetery, 1.24 mi south of Interstate 44, 4.48 mi east of U.S. 67 (Lindbergh Blvd.), and 0.85 mi upstream of River Des Peres Drainage Channel.

DRAINAGE AREA.--3.49 mi².

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

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

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

REMARKS.--No estimated daily discharges. Records fair except for discharges below 0.5 ft³/s, 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	0.39	25	4.2	3.8	0.73	0.47	0.46	0.34	0.03	0.20	0.08	0.18
2	0.15	2.2	2.7	23	1.0	0.39	0.46	0.27	0.03	0.21	0.05	0.12
3	0.12	3.5	1.2	54	1.1	0.39	0.46	0.22	0.03	0.23	0.05	0.12
4	0.32	1.9	1.0	63	0.72	0.39	0.41	0.21	0.03	5.1	0.05	0.12
5	0.21	0.88	4.4	116	0.64	0.34	0.39	0.19	0.03	0.72	1.4	0.12
6	0.13	0.63	22	10	1.5	0.35	0.39	0.16	1.1	0.12	0.08	0.15
7	0.12	0.82	33	4.6	5.9	1.6	0.39	0.16	0.05	0.08	0.05	0.15
8	3.1	0.46	2.8	4.1	1.8	0.34	0.39	0.16	1.9	0.08	0.05	0.16
9	0.21	0.40	1.7	2.9	4.8	0.32	0.39	0.16	55	0.08	0.04	0.16
10	0.15	0.39	1.4	1.9	1.1	0.32	0.66	0.18	4.8	0.10	0.05	0.16
11	1.5	42	1.8	4.8	0.92	0.32	1.5	0.57	7.5	10	0.08	0.19
12	11	2.9	0.88	16	0.87	0.32	9.6	0.17	1.2	8.1	0.09	0.21
13	0.56	1.4	0.73	74	26	0.28	1.3	0.12	4.1	0.40	15	0.95
14	6.3	1.0	0.65	6.6	3.0	0.26	0.49	2.2	0.74	0.21	11	6.5
15	1.2	0.79	0.63	3.9	1.8	0.30	0.27	0.13	0.33	5.6	4.6	47
16	0.28	0.56	0.59	3.0	1.2	0.27	0.21	0.12	0.32	0.42	1.4	1.9
17	0.21	0.46	0.54	2.6	1.4	0.45	0.21	0.12	0.26	0.19	0.26	0.50
18	30	4.4	0.51	2.0	0.88	0.28	0.21	0.11	0.26	2.3	4.2	0.31
19	0.74	5.0	0.42	2.2	0.85	0.26	0.21	0.10	0.28	0.25	0.29	23
20	0.40	0.89	0.42	1.8	0.88	0.26	2.3	7.2	0.26	0.12	0.16	10
21	0.23	0.65	0.45	1.6	0.71	0.26	6.2	0.12	0.25	0.11	0.12	0.65
22	0.25	3.6	0.38	1.4	0.63	26	13	1.0	0.21	0.11	0.73	0.43
23	16	0.75	0.32	1.3	0.61	4.9	1.9	0.10	0.21	0.08	0.22	0.38
24	0.47	55	0.32	1.2	0.79	1.8	0.50	0.08	0.62	0.08	1.1	0.32
25	0.35	4.1	0.34	1.7	0.55	4.7	0.61	0.05	0.24	0.08	23	46
26	6.5	1.6	0.39	1.2	0.54	1.0	3.4	0.05	0.22	0.09	11	2.5
27	1.4	4.2	0.34	0.94	0.55	0.88	0.58	0.50	0.12	1.6	1.2	0.91
28	0.42	1.0	0.34	0.85	0.83	0.73	3.6	0.11	0.12	0.13	0.68	30
29	0.39	6.7	0.32	3.0	---	0.64	2.8	0.05	0.15	0.09	0.24	2.2
30	1.7	16	0.32	1.5	---	0.63	0.69	0.03	0.16	0.14	0.21	0.92
31	0.40	---	0.32	0.92	---	0.52	---	0.03	---	0.09	0.92	---
MEAN	2.75	6.31	2.76	13.4	2.23	1.61	1.80	0.48	2.69	1.20	2.53	5.88
MAX	30	55	33	116	26	26	13	7.2	55	10	23	47
MIN	0.12	0.39	0.32	0.85	0.54	0.26	0.21	0.03	0.03	0.08	0.04	0.12
IN.	0.91	2.02	0.91	4.43	0.66	0.53	0.58	0.16	0.86	0.40	0.84	1.88

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

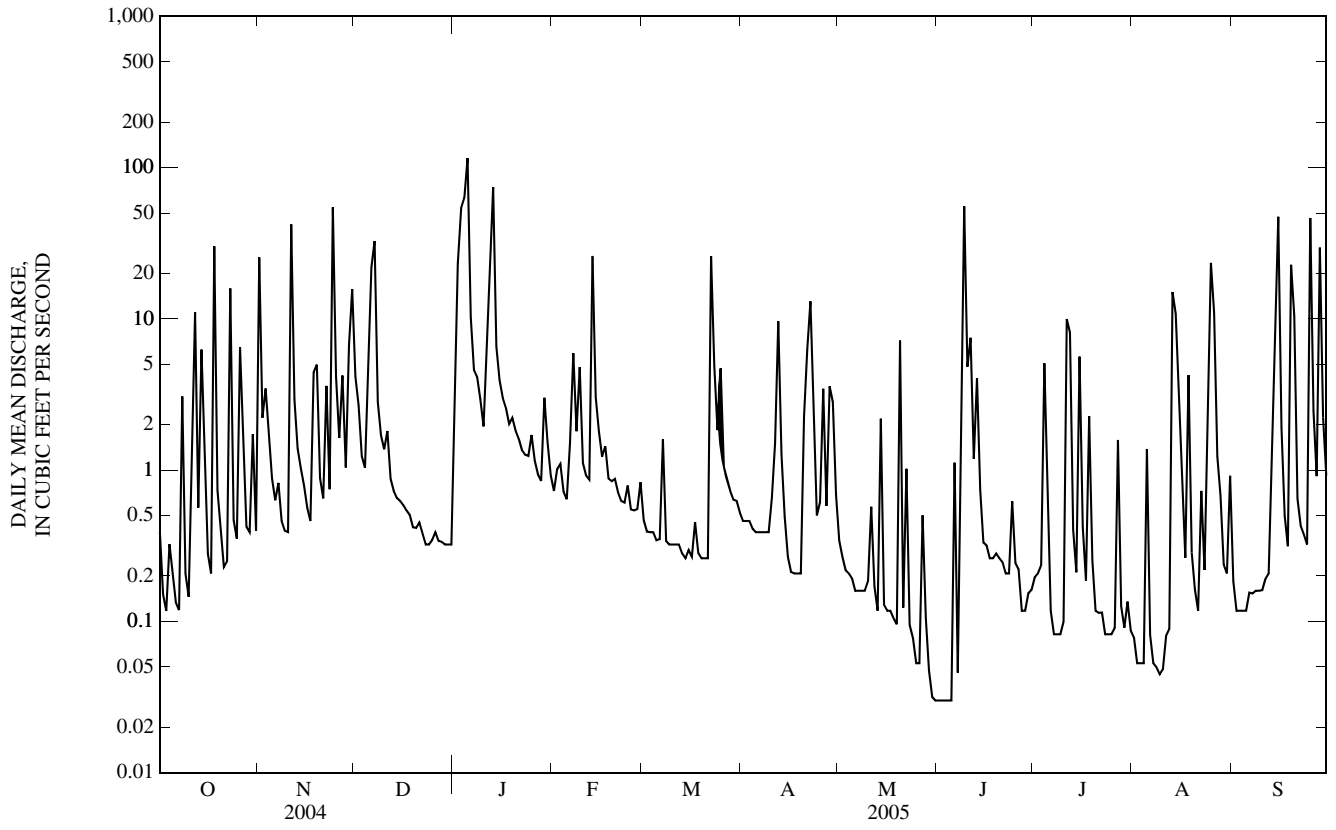
MEAN	2.08	2.56	1.86	4.02	3.07	3.65	3.42	5.55	5.46	3.60	2.22	1.96
MAX	3.42	6.31	4.41	13.4	7.01	11.4	5.68	11.1	11.3	8.24	5.55	5.88
(WY)	(2002)	(2005)	(2002)	(2005)	(1999)	(1998)	(1998)	(2004)	(1998)	(2004)	(1998)	(2005)
MIN	1.10	0.32	0.43	0.78	1.33	0.85	1.05	0.48	2.31	0.38	0.32	0.14
(WY)	(2001)	(2000)	(1999)	(2003)	(2002)	(2000)	(2000)	(2005)	(2004)	(2002)	(2003)	(2004)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1997 - 2005
ANNUAL MEAN	4.01	3.64	3.32
HIGHEST ANNUAL MEAN			4.96
LOWEST ANNUAL MEAN			2.04
HIGHEST DAILY MEAN		116	200
LOWEST DAILY MEAN	0.05	0.03	0.03
ANNUAL SEVEN-DAY MINIMUM	0.06	0.03	0.03
MAXIMUM PEAK FLOW	---	1,390 ^a	1,730 ^a
MAXIMUM PEAK STAGE	---	9.98	10.80
INSTANTANEOUS LOW FLOW	---	0.03	0.03
ANNUAL RUNOFF (INCHES)	15.64	14.17	12.94
10 PERCENT EXCEEDS	6.8	6.5	6.3
50 PERCENT EXCEEDS	0.72	0.54	0.65
90 PERCENT EXCEEDS	0.16	0.11	0.17

^a From rating extended above 156 ft³/s on basis of indirect measurement.

07010090 MACKENZIE CREEK NEAR SHREWSBURY, MO—Continued



07010097 RIVER DES PERES AT ST. LOUIS, MO

LOCATION.--Lat 38°33'34", long 90°17'00", City of St. Louis, Hydrologic Unit 07140101, on right downstream abutment of Morganford Bridge, 0.6 mi north of I-55, 2.1 mi east of Mackenzie Road, and 2.4 mi upstream from confluence to the Mississippi River.

DRAINAGE AREA.--82.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Feb. 8, 2002 to current year.

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

REMARKS.--Water-discharge 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	0.60	501	99	35	8.4	6.6	5.8	6.7	0.65	1.6	0.47	3.2
2	1.2	51	19	126	7.6	5.4	5.2	5.2	0.75	0.63	0.41	1.8
3	0.74	18	14	1,450	8.3	5.2	5.3	e4.0	0.64	0.85	0.31	2.2
4	1.2	38	11	1,480	7.5	5.2	5.0	e3.0	5.9	51	0.86	1.3
5	1.0	8.3	79	3,860	7.2	5.4	7.4	e2.6	9.1	19	27	1.1
6	1.9	6.7	166	e271	7.1	4.8	12	2.3	51	6.3	24	1.5
7	1.9	5.9	1,130	e91	69	12	5.6	1.9	17	3.5	6.4	1.7
8	24	5.1	e33	e57	113	7.1	5.1	1.5	123	1.8	3.5	1.3
9	9.2	4.9	e15	e39	30	5.4	4.5	1.4	1,130	1.2	3.1	1.6
10	5.3	4.7	e10	e29	14	5.1	5.7	1.1	191	1.00	3.2	1.5
11	5.7	919	17	e25	9.0	5.0	7.8	0.95	139	122	13	1.0
12	145	88	12	85	8.3	4.9	151	1.6	e22	338	18	1.1
13	50	15	8.6	2,660	492	4.7	85	0.61	e31	23	498	6.2
14	50	11	8.2	e184	66	4.8	10	59	e12	4.6	379	101
15	65	8.9	9.4	e69	e31	5.1	e7.5	17	e6.4	86	129	1,500
16	7.6	7.9	7.5	e41	e22	4.9	e7.1	4.6	e3.7	19	248	126
17	5.3	7.9	6.6	e29	e16	5.0	e6.8	4.6	e2.6	9.6	12	41
18	512	27	6.6	e20	e14	4.8	e6.7	3.4	e2.1	140	47	e45
19	18	161	8.3	16	e12	4.5	e6.2	3.0	e1.8	46	19	404
20	5.6	15	12	16	e13	4.4	71	206	1.3	6.5	4.7	1,070
21	4.2	9.2	6.9	12	e12	4.3	81	11	1.4	3.0	3.6	16
22	4.3	62	9.2	11	e9.8	505	364	18	1.1	1.4	106	4.6
23	217	15	17	16	e7.2	111	21	9.0	0.96	0.85	40	2.9
24	12	1,310	9.0	11	e10	16	10	4.0	0.94	2.1	11	2.3
25	5.1	136	8.7	8.9	6.5	43	6.7	2.3	5.2	5.5	1,030	1,170
26	166	29	5.7	8.4	5.9	13	30	1.9	5.0	7.3	426	114
27	70	78	13	7.5	5.7	9.0	9.3	3.6	2.8	28	45	13
28	8.4	26	5.5	7.1	6.6	8.0	23	18	3.5	5.3	8.9	774
29	5.0	87	5.7	11	---	7.1	31	3.6	3.0	1.8	4.3	e88
30	18	338	5.6	11	---	6.8	23	1.7	2.2	0.98	11	e7.0
31	4.7	---	5.6	9.1	---	6.7	---	1.2	---	0.70	2.5	---
MEAN	46.0	133	56.9	345	36.4	27.1	34.0	13.1	59.2	30.3	101	183
MAX	512	1,310	1,130	3,860	492	505	364	206	1,130	338	1,030	1,500
MIN	0.60	4.7	5.5	7.1	5.7	4.3	4.5	0.61	0.64	0.63	0.31	1.0
IN.	0.64	1.80	0.80	4.82	0.46	0.38	0.46	0.18	0.80	0.42	1.41	2.48

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

MEAN	54.4	110	35.2	157	29.5	68.3	53.0	112	99.8	64.3	50.3	102
MAX	77.7	188	56.9	345	36.4	132	79.2	207	231	175	101	206
(WY)	(2003)	(2004)	(2005)	(2005)	(2005)	(2004)	(2003)	(2004)	(2003)	(2004)	(2005)	(2003)
MIN	39.6	8.85	18.2	7.39	24.2	27.1	34.0	13.1	20.1	10.3	14.5	0.58
(WY)	(2004)	(2003)	(2003)	(2003)	(2004)	(2005)	(2005)	(2005)	(2004)	(2002)	(2003)	(2004)

SUMMARY STATISTICS

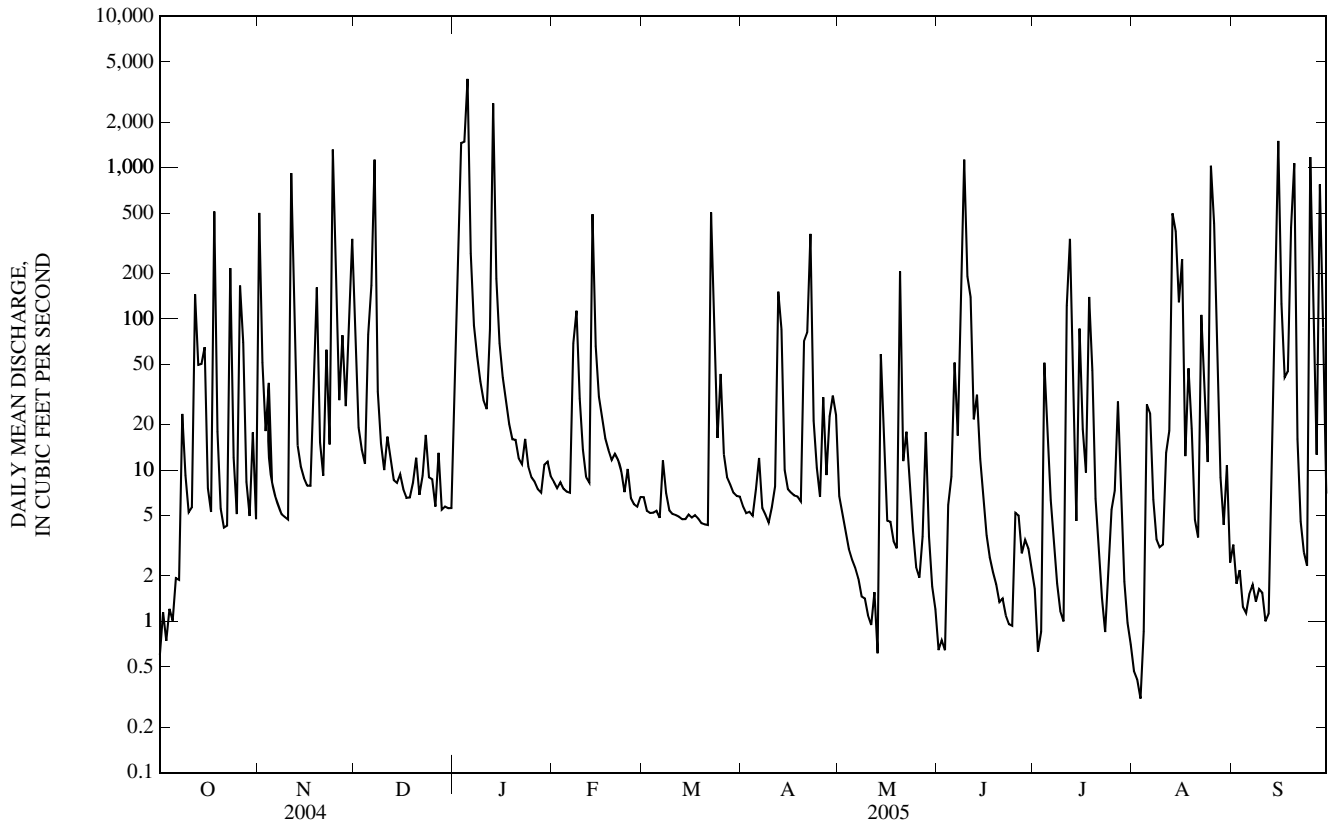
	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 2002 - 2005
ANNUAL MEAN	84.6	89.1	82.2
HIGHEST ANNUAL MEAN			89.1
LOWEST ANNUAL MEAN			71.2
HIGHEST DAILY MEAN	2,490	Jan 4	4,330
LOWEST DAILY MEAN	0.31	Sep 25	0.28
ANNUAL SEVEN-DAY MINIMUM	0.37	Sep 22	0.37
MAXIMUM PEAK FLOW	---	9,820 ^a	19,900 ^b
MAXIMUM PEAK STAGE	---	14.67	19.85
INSTANTANEOUS LOW FLOW	---	0.24	0.22
ANNUAL RUNOFF (INCHES)	13.97	14.66	13.54
10 PERCENT EXCEEDS	169	139	140
50 PERCENT EXCEEDS	7.6	8.4	6.2
90 PERCENT EXCEEDS	0.74	1.5	1.1

e Estimated

^a From rating extended above 3,400 ft³/s on basis of indirect measurement.

^b Discharge determined by indirect measurement of peak flow.

07010097 RIVER DES PERES AT ST. LOUIS, MO—Continued



MISSISSIPPI RIVER BASIN BELOW MISSOURI RIVER
07010097 RIVER DES PERES AT ST. LOUIS, MO—Continued
(Metropolitan St. Louis Sewer District Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2002 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, mg/L (00915)	Magnesium, water, mg/L (00925)	
OCT 04...	1255	Environmental	14	.2	16.3	182	8.9	647	20.4	190	47.1	16.6	
12...	1730	Environmental	177	4.5	624	6,510	7.5	345	16.1	110	33.3	5.80	
12...	1731	Replicate	--	--	--	--	--	--	--	110	32.9	5.70	
MAR 22...	0955	Environmental	--	2.5	10.6	90	7.8	378	7.4	120	31.7	8.92	
APR 25...	1140	Environmental	3.2	3.9	12.7	132	7.9	771	15.8	240	72.9	13.4	
JUN 21...	1505	Environmental	23	.1	15.2	220	9.2	629	34.4	180	46.5	15.1	
AUG 10...	0830	Environmental	26	2.6	5.1	66	7.9	595	26.9	200	49.7	17.6	
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 (00613)	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 04...	89	92	73	19	<10	.62	<.04	.32	.099	.04	.08	30	20k
12...	80	75	92	<1	145	3.0	.36	.72	.047	.14	.69	80	3,700
12...	--	--	--	--	149	2.9	.36	.72	.047	.14	.68	60	2,800
MAR 22...	81	77	93	<1	120d	2.7	.35	.82	.038	.04	.58	70	41,000
APR 25...	148	149	182	<1	14	.68	.06	.57	.071	.04	.12	20	750k
JUN 21...	82	79	48	24	27	.87	<.04	<.06	<.008	<.02	.13	20	40k
AUG 10...	113	112	138	<1	11	.68	<.04	<.06	E.004n	.12	.20	20	150
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 04...	96	9	1.4	<.06	.04	<.8	3.5	14	.12	7.0	<.01	1.93	.9
12...	100,000	6	1.4	<.06	E.03n	E.5n	2.2	47	.20	99.5	.05	1.76	.8
12...	78,000	6	1.4	<.06	E.03n	E.5n	2.2	47	.20	116	.07	2.13	.7
MAR 22...	59,000	6	1.0	<.06	E.03n	4.9	2.7	26	.23	72.1	.05	2.88	1.1
APR 25...	140	11	1.6	E.06n	E.03n	<.8	3.1	28	.25	103	<.01	2.66	1.2
JUN 21...	63k	9	3.1	<.06	E.03n	<.8	3.8	33	.19	8.4	E.01n	3.73	1.1
AUG 10...	270k	6	4.4	<.06	E.02n	<.8	2.4	32	.22	106	<.01	3.29	1.1

07010097 RIVER DES PERES AT ST. LOUIS, 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		
04...	<.2	1.7
12...	<.2	4.6
12...	<.2	4.9
MAR		
22...	<.2	7.8
APR		
25...	<.2	4.0
JUN		
21...	<.2	.9
AUG		
10...	<.2	1.5

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

07010180 GRAVOIS CREEK NEAR MEHLVILLE, MO

LOCATION.--Lat 38°31'37", long 90°17'59", St. Louis County, Hydrologic Unit 07140101, on center downstream pier of Green Park Road bridge, 1.10 mi south of Interstate 55, 0.24 mi west of Highway 267 (Lemay Ferry Road), and 3.48 mi upstream of River Des Peres Drainage Channel.

DRAINAGE AREA.--18.1 mi².

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 422.15 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--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	0.38	207	30	13	4.3	5.0	5.9	e4.3	3.9	6.4	e2.1	1.1
2	0.35	20	12	143	4.4	4.5	5.5	e3.6	3.9	6.1	1.9	1.0
3	0.34	17	8.9	487	9.9	4.4	5.4	10	3.9	6.0	1.8	0.95
4	0.40	19	7.7	349	5.0	4.4	5.3	8.7	3.9	45	1.7	0.87
5	0.78	7.3	22	1,040	4.1	4.4	5.2	e4.5	3.9	13	e36	1.0
6	0.53	5.6	103	74	4.4	4.2	5.2	e3.4	3.9	8.8	e7.1	0.86
7	0.39	4.8	338	26	35	8.5	5.2	e3.4	3.9	6.1	e2.8	0.85
8	27	4.1	18	25	15	4.0	5.1	4.9	7.6	5.0	e1.8	0.79
9	5.1	3.8	12	20	19	3.9	4.9	4.5	294	4.5	1.6	0.91
10	1.3	3.7	9.7	17	5.0	4.3	4.9	4.3	25	4.3	2.6	0.83
11	1.9	278	12	29	3.3	3.9	7.4	4.1	38	35	1.7	0.76
12	111	24	8.4	28	3.2	3.9	299	4.1	13	41	1.6	0.77
13	8.5	9.9	6.4	723	164	3.9	38	4.1	18	5.5	79	0.88
14	33	7.2	6.0	e34	20	3.9	e9.5	11	23	4.2	37	28
15	16	6.1	5.8	e15	11	3.9	e6.8	4.2	17	9.1	8.2	290
16	2.2	5.6	6.5	e9.9	8.5	3.9	e5.4	4.0	14	10	7.4	25
17	1.3	5.1	5.8	e7.8	7.2	3.9	e4.7	3.9	11	4.3	1.9	4.3
18	260	28	5.4	7.9	6.2	3.9	e4.1	3.9	9.3	6.6	8.9	2.6
19	13	43	5.1	10	5.7	3.9	e3.9	4.0	8.6	4.3	3.2	20
20	6.6	8.4	5.4	9.3	5.7	3.9	14	24	8.1	3.9	1.2	201
21	6.1	6.1	4.9	7.9	5.5	3.9	52	7.3	7.7	3.5	1.1	5.6
22	4.3	25	4.4	6.9	5.2	154	145	12	7.7	3.4	0.99	3.7
23	97	7.4	4.1	5.6	4.9	32	e15	e4.9	7.1	3.2	0.93	2.8
24	6.8	438	3.8	5.4	5.8	19	e6.7	e4.5	7.0	e3.5	0.93	2.2
25	4.2	30	3.7	5.4	5.3	34	e4.3	e4.2	7.0	3.0	144	294
26	44	13	5.1	5.9	4.7	19	21	e4.1	6.7	e3.2	53	19
27	16	21	4.6	5.1	4.6	13	e5.5	e4.0	6.7	e22	2.4	6.0
28	5.6	9.8	3.9	4.6	6.0	10	21	4.4	6.7	e4.4	1.3	241
29	4.4	41	3.9	19	---	8.3	19	4.1	6.7	2.3	1.3	20
30	12	108	3.6	9.8	---	7.3	e14	4.1	6.7	2.2	e2.1	6.3
31	4.4	---	3.4	6.1	---	6.6	---	4.1	---	2.1	e1.3	---
MEAN	22.4	46.9	21.7	102	13.7	12.7	25.0	5.70	19.5	9.09	13.5	39.4
MAX	260	438	338	1,040	164	154	299	24	294	45	144	294
MIN	0.34	3.7	3.4	4.6	3.2	3.9	3.9	3.4	3.9	2.1	0.93	0.76
IN.	1.43	2.89	1.38	6.47	0.79	0.81	1.54	0.36	1.20	0.58	0.86	2.43

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

MEAN	13.1	23.1	11.6	32.1	21.9	24.2	20.2	30.2	35.0	22.4	12.7	18.4
MAX	22.4	55.2	34.1	102	49.5	69.8	32.0	73.4	65.6	54.0	27.3	70.9
(WY)	(2005)	(2004)	(2002)	(2005)	(1999)	(1998)	(1998)	(2004)	(1998)	(2004)	(2000)	(2003)
MIN	7.44	2.04	4.02	2.42	8.53	7.19	6.43	5.70	15.4	3.57	1.63	0.87
(WY)	(1998)	(2000)	(2001)	(2003)	(2002)	(2000)	(2000)	(2005)	(2001)	(2002)	(2001)	(2004)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

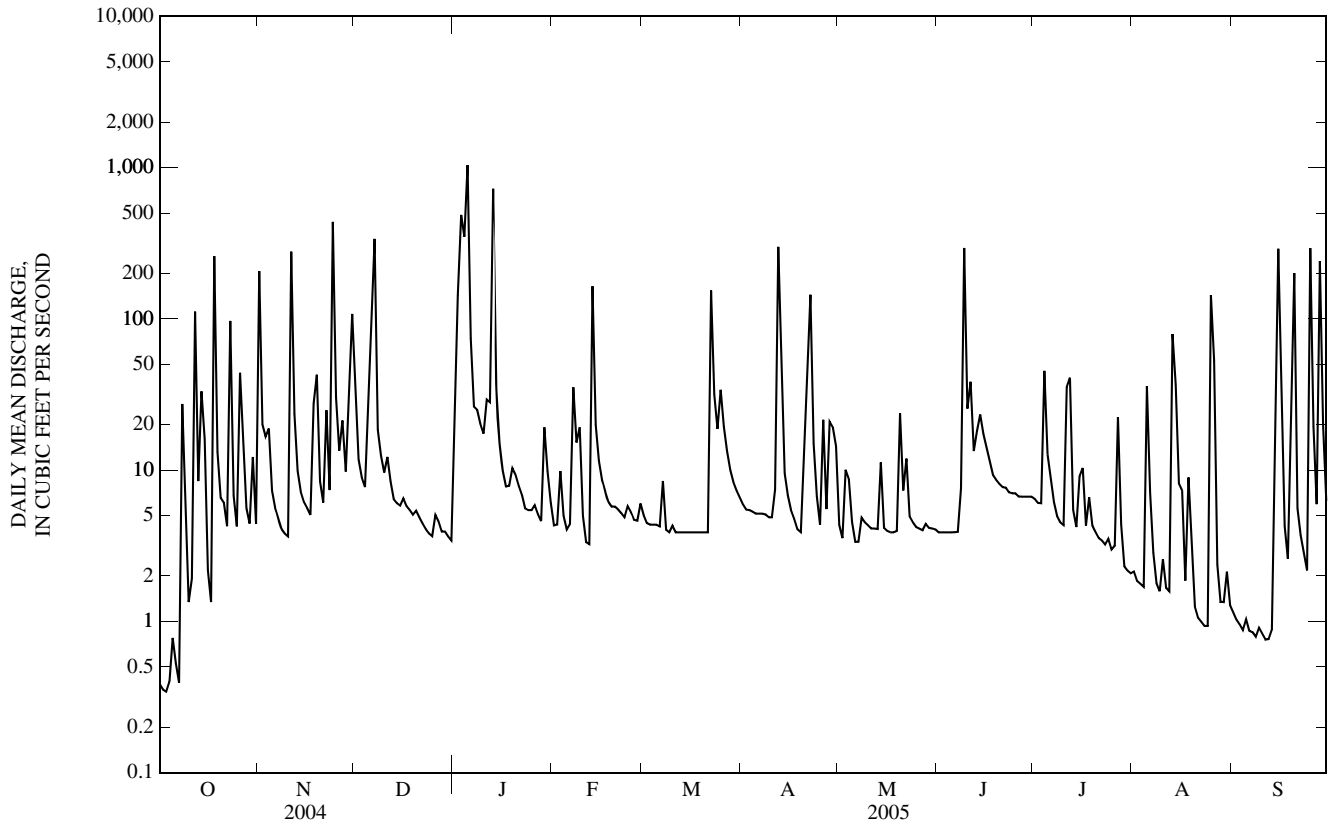
WATER YEARS 1996 - 2005

ANNUAL MEAN	30.2	27.7	22.0
HIGHEST ANNUAL MEAN			28.7
LOWEST ANNUAL MEAN			12.2
HIGHEST DAILY MEAN	1,040	Jan 4	1,290
LOWEST DAILY MEAN	0.34	Oct 3	0.14
ANNUAL SEVEN-DAY MINIMUM	0.38	Sep 28	0.45
MAXIMUM PEAK FLOW	---		2,690 ^a
MAXIMUM PEAK STAGE	---		13.00
INSTANTANEOUS LOW FLOW	---		0.34
ANNUAL RUNOFF (INCHES)	22.73		20.75
10 PERCENT EXCEEDS	53		36
50 PERCENT EXCEEDS	5.1		5.6
90 PERCENT EXCEEDS	1.4		1.9

e Estimated

^a From rating extended above 1,150 ft³/s on basis of indirect measurement.

07010180 GRAVOIS CREEK NEAR MEHLVILLE, MO—Continued



MISSISSIPPI RIVER BASIN BELOW MISSOURI RIVER

07010208 MARTIGNEY CREEK NEAR ARNOLD, MO

LOCATION.--Lat 38°29'27", long 90°17'35", St. Louis County, Hydrologic Unit 07140101, on left downstream abutment of Sunrise Height Drive bridge, 0.1 mi south of Interstate 255, 0.5 mi east of Highway 231 (Telegraph Road), and 1.04 mi upstream of Mississippi River.

DRAINAGE AREA.--2.64 mi².

PERIOD OF RECORD.--May 1997 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	0.45	e50	4.1	3.7	1.5	1.5	1.1	1.1	0.45	0.60	1.1	1.1
2	0.31	e2.0	2.3	20	1.9	1.6	1.1	1.00	0.36	0.44	1.1	1.1
3	0.42	e1.6	2.0	45	2.3	1.5	1.1	0.94	0.43	0.39	1.1	1.1
4	0.39	1.9	1.7	e60	1.5	1.5	1.0	0.92	0.32	4.3	1.2	0.94
5	0.30	1.4	7.5	e80	1.3	1.4	1.0	0.89	0.61	1.4	0.77	0.67
6	0.30	1.2	30	8.0	1.8	1.4	1.1	0.87	0.42	0.89	0.32	0.62
7	0.35	1.2	31	3.8	4.9	2.4	1.1	1.1	0.39	0.80	0.39	0.61
8	4.3	1.5	2.6	3.9	2.8	1.5	0.94	1.2	3.7	0.77	0.47	0.62
9	1.1	1.5	2.0	3.4	4.2	1.4	0.88	1.1	4.5	0.76	0.44	0.74
10	e0.41	1.2	1.7	2.5	2.0	1.4	0.89	1.0	2.5	0.89	2.0	0.65
11	e3.0	38	1.9	10	1.6	1.4	1.2	0.98	4.2	7.0	0.79	0.60
12	e50	3.1	1.4	11	1.7	1.4	7.0	1.0	2.1	8.6	0.63	0.55
13	e6.3	1.8	1.4	70	16	1.2	2.0	1.0	4.0	1.3	4.6	0.55
14	e17	1.5	1.4	4.5	3.8	1.3	0.99	2.2	1.9	2.6	5.8	4.4
15	1.4	1.3	1.3	e2.7	2.7	1.2	0.89	0.86	1.0	3.0	1.9	12
16	0.77	1.1	1.2	e2.1	2.2	1.3	0.84	0.76	1.0	1.1	3.3	4.1
17	0.57	1.1	1.2	e1.9	2.1	1.3	0.82	0.74	0.89	0.73	0.96	1.3
18	24	5.0	1.2	e1.8	1.9	1.3	0.82	0.70	0.64	3.1	6.1	1.2
19	e4.0	10	1.3	2.1	1.8	1.3	0.87	0.66	0.49	1.2	1.1	3.7
20	e1.0	1.7	1.3	2.5	1.9	1.3	3.5	1.6	0.42	0.73	0.80	7.5
21	e0.76	1.4	1.3	2.3	1.7	1.3	6.8	0.58	0.39	0.63	0.72	1.5
22	1.0	5.0	1.2	2.1	1.6	15	7.7	1.2	0.31	0.57	0.67	1.2
23	e13	1.5	1.1	2.3	1.6	5.7	2.1	0.56	0.33	0.53	0.66	1.1
24	e1.3	55	1.1	2.2	1.9	1.8	1.4	0.48	0.32	0.56	0.73	1.8
25	1.7	5.1	1.1	2.1	1.5	5.3	1.6	0.44	0.34	0.59	8.1	16
26	e17	1.5	1.1	2.0	1.4	1.5	3.6	0.42	0.33	1.8	5.6	3.1
27	e11	6.1	1.0	1.8	1.4	1.4	1.2	0.53	0.35	4.0	1.3	1.6
28	1.4	1.4	1.0	1.7	1.8	1.2	3.4	0.44	0.39	1.5	1.1	7.3
29	e0.88	4.0	1.0	3.6	---	1.1	2.4	0.46	0.40	1.4	1.2	3.3
30	e3.1	e20	1.1	2.4	---	1.0	1.4	0.42	0.42	1.2	1.2	1.6
31	e0.97	---	1.1	1.8	---	1.2	---	0.35	---	1.2	1.1	---
MEAN	5.43	7.64	3.57	11.7	2.60	2.10	2.02	0.85	1.13	1.76	1.85	2.75
MAX	50	55	31	80	16	15	7.7	2.2	4.5	8.6	8.1	16
MIN	0.30	1.1	1.0	1.7	1.3	1.0	0.82	0.35	0.31	0.39	0.32	0.55
IN.	2.37	3.23	1.56	5.12	1.03	0.92	0.86	0.37	0.48	0.77	0.81	1.16

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

	2005	2004	2002	2005	1999	1998	2003	2003	2003	1998	2000	2003
MEAN	2.20	3.40	2.26	3.96	3.08	3.61	3.24	5.38	4.76	2.80	2.06	1.80
MAX	5.43	7.87	5.45	11.7	5.65	8.47	5.59	9.10	10.2	6.53	4.25	3.87
(WY)	(2005)	(2004)	(2002)	(2005)	(1999)	(1998)	(2003)	(2003)	(2003)	(1998)	(2000)	(2003)
MIN	1.21	0.74	0.38	1.23	1.49	1.69	1.30	0.85	1.13	0.71	0.87	0.38
(WY)	(1998)	(2000)	(1999)	(2003)	(2002)	(2000)	(2000)	(2005)	(2005)	(1997)	(2003)	(2004)

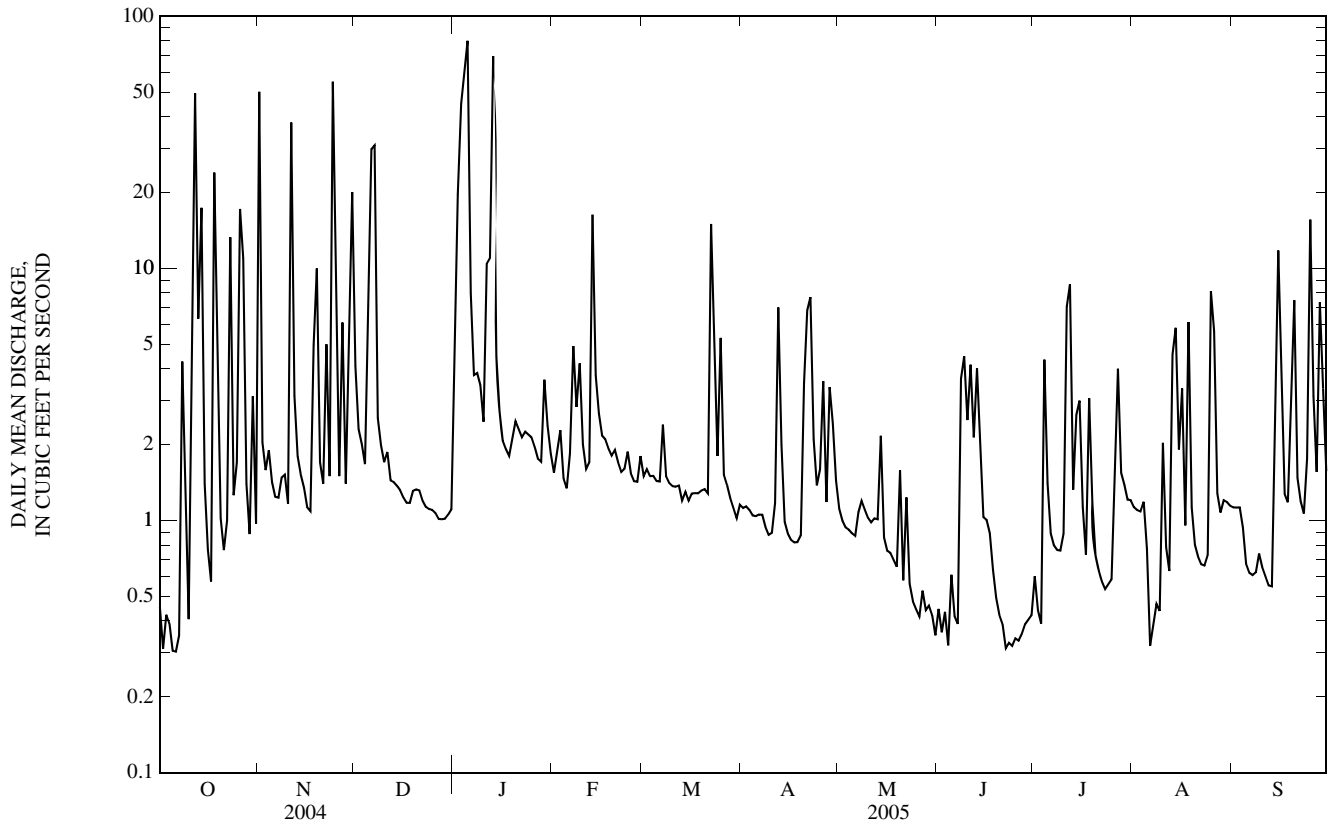
SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1997 - 2005
ANNUAL MEAN	4.03	3.63	3.27
HIGHEST ANNUAL MEAN			3.97
LOWEST ANNUAL MEAN			2.19
HIGHEST DAILY MEAN	92	Jan 4	80
LOWEST DAILY MEAN	0.25	Sep 23	0.30
ANNUAL SEVEN-DAY MINIMUM	0.30	Sep 19	0.34
MAXIMUM PEAK FLOW	---	Unknown	Jan 5
MAXIMUM PEAK STAGE	---	Unknown	Jan 5
INSTANTANEOUS LOW FLOW	---	0.19	Oct 2
ANNUAL RUNOFF (INCHES)	20.77	18.67	16.80
10 PERCENT EXCEEDS	8.6	6.1	6.1
50 PERCENT EXCEEDS	1.1	1.3	0.82
90 PERCENT EXCEEDS	0.41	0.47	0.38

e Estimated

^a Discharge determined by indirect measurement of peak flow.

07010208 MARTIGNEY CREEK NEAR ARNOLD, MO—Continued



07010220 MISSISSIPPI RIVER AT OAKVILLE, MO
(Metropolitan St. Louis Sewer District Network)

LOCATION.--Lat 38°25'33", long 90°17'39", St. Louis County, Hydrologic Unit 07140101, site can be reached by boat 15.5 miles downstream of the St. Louis Arch, at mile 164.5.

DRAINAGE AREA.--697,000 mi², approximatley.

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 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 26...	1230	Environmental	105,000	3.1	10.9	112	8.0	544	16.1	220	53.7	21.1
APR 12...	1620	Environmental	203,000	3.3	8.7	91	8.0	551	16.2	220	53.5	20.8
22...	1105	Environmental	228,000	3.7	7.8	86	7.9	491	18.7	190	48.8	17.6
MAY 10...	1050	Environmental	139,000	4.9	9.6	105	7.8	570	18.8	240	60.4	21.7
JUN 10...	1630	Environmental	264,000	2.8	5.1	63	8.0	450	24.8	180	46.7	15.8
21...	1115	Environmental	237,000	4.3	6.3	78	7.8	485	25.7	220	57.6	19.6
JUL 12...	1100	Environmental	153,000	3.2	6.3	81	8.0	550	26.9	220	57.6	19.7
20...	1650	Environmental	96,300	1.1	8.9	122	8.5	614	30.9	260	66.8	23.4
AUG 09...	1125	Environmental	78,300	2.5	6.8	90	8.1	633	29.5	230	58.2	21.5

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 26...	162	162	198	<1	43	.85	.14	1.65	.019	.11	.20	10	64
APR 12...	159	161	196	<1	140	.30	.11	2.25	.034	.04	.11	20	24k
22...	140	143	174	<1	143d	1.2	.13	2.46	.040	.06	.30	20	1,600
MAY 10...	168	170	207	<1	76	.98	<.04	3.18	.009	.07	.22	20	240
JUN 10...	158	160	195	<1	952d	2.4	.05	3.10	.029	.08	.95	50	330
21...	153	153	187	<1	468d	1.6	E.03n	2.97	.024	.07	.57	30	940
JUL 12...	159	156	193	<1	102	1.0	.08	3.37	.033	.10	.31	20	1,200
20...	189	188	221	4	24	.84	E.04n	2.70	.030	.06	.20	30	400k
AUG 09...	168	171	208	<1	72	1.2	.26	.87	.023	.13	.29	20	250

07010220 MISSISSIPPI RIVER AT OAKVILLE, 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 26...	64	2	2.0	<.06	E.03n	<.8	1.9	<6	<.08	.9	<.01	2.63	.9
APR 12...	82	2	1.3	<.06	E.02n	<.8	1.6	E6n	<.08	.7	E.01n	4.08	.5
22...	3,500	3	1.4	<.06	E.02n	<.8	2.2	E4n	<.08	1.4	E.01n	2.19	1.1
MAY 10...	480k	2	2.0	<.06	E.03n	<.8	1.7	E4n	<.08	.6	<.01	2.45	2.1
JUN 10...	370	4	2.0	<.06	E.02n	<.8	2.1	E3n	E.05n	<.6	.04	3.52	1.2
21...	1,400k	4	2.4	<.06	E.02n	<.8	2.2	<6	<.08	E.6n	.02	4.25	1.5
JUL 12...	960	3	3.2	<.06	E.03n	<.8	2.1	E6n	<.08	.8	E.01n	3.45	1.6
20...	480k	4	3.2	<.06	E.02n	<.8	2.1	<6	<.08	.6	<.01	3.62	1.8
AUG 09...	370	6	3.8	<.06	E.04n	<.8	2.2	E3n	<.08	1.0	<.01	3.31	1.5

Date	Silver, water, fltrd, µg/L (01075)	Zinc, water, fltrd, µg/L (01090)
OCT 26...	<.2	1.4
APR 12...	<.2	1.0
22...	<.2	1.2
MAY 10...	<.2	.8
JUN 10...	<.2	1.4
21...	<.2	.6
JUL 12...	<.2	.7
20...	<.2	1.2
AUG 09...	<.2	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

07013000 MERAMEC RIVER NEAR STEELVILLE, MO

LOCATION.--Lat 37°59'55", long 91°21'39", in NE 1/4 sec.21, T.38 N., R.4 W., Crawford County, Hydrologic Unit 07140102, on left bank 20 ft downstream from railroad bridge, 400 ft upstream from highway bridge, 0.8 mi upstream from Whittenburg Creek, 1.5 mi north of Steelville, and at mile 146.4.

DRAINAGE AREA.--781 mi².

PERIOD OF RECORD.--October 1922 to current year. Prior to January 1923 monthly discharges only, published in WSP 1311. Gage-height records for 1916-33 at site 1.0 mi upstream in reports of the National Weather Service.

REVISED RECORDS.--WSP 897: 1939. WSP 1007: Drainage Area.

GAGE.--Water-stage recorder. Datum of gage is 681.68 ft above National Geodetic Vertical Datum of 1929. Prior to May 24, 1934, and from July 20, 1966 to July 20, 1967, nonrecording gage, 400 ft downstream, same datum; May 24, 1934 to July 20, 1966, water-stage recorder at present site and datum; July 20, 1967 to Feb. 13, 1973, water-stage recorder at site 1,900 ft downstream and at datum 1.8 ft lower; Feb. 14, 1973 to current year, water-stage recorder at present site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 20, 1915, reached a stage of 26.5 ft, discharge, 60,000 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	132	315	2,400	192	421	455	405	567	197	150	129	148
2	131	1,050	1,820	189	406	434	386	493	190	147	126	144
3	129	647	1,230	203	399	414	372	441	185	146	125	139
4	131	469	932	261	393	404	364	407	184	148	133	135
5	129	397	751	5,130	387	399	360	375	180	143	132	131
6	130	320	653	e9,010	382	385	360	353	175	141	125	127
7	131	272	1,440	3,600	382	377	366	340	177	141	123	125
8	140	237	1,650	2,070	407	368	367	328	183	139	127	123
9	142	210	1,250	1,490	468	354	364	315	177	135	129	122
10	157	192	996	1,190	474	339	356	303	211	133	133	120
11	155	265	805	1,010	455	328	405	292	305	134	132	118
12	167	1,280	672	922	438	322	837	279	654	169	147	116
13	190	1,040	573	e8,260	1,070	315	852	270	392	223	138	122
14	208	705	490	e11,400	1,620	303	749	279	290	262	140	148
15	189	536	432	3,560	1,240	292	655	297	244	219	150	181
16	172	434	395	1,890	1,010	286	579	298	212	195	448	259
17	165	371	363	1,410	834	282	519	274	199	176	407	224
18	164	330	340	1,150	722	281	472	263	185	173	271	239
19	157	306	314	1,000	641	276	437	253	176	169	226	496
20	154	291	291	904	597	270	409	244	169	176	193	748
21	153	272	278	831	557	266	472	234	164	184	173	589
22	153	260	260	758	516	288	1,320	242	160	179	162	349
23	155	273	241	674	479	327	927	258	157	166	160	266
24	153	369	226	615	471	374	686	257	155	155	191	223
25	154	1,610	223	581	471	429	571	232	153	146	196	235
26	168	1,150	215	553	475	533	534	221	151	142	210	497
27	225	864	205	517	472	480	528	215	165	142	238	537
28	281	873	200	481	466	495	510	211	156	135	220	414
29	287	757	200	470	---	494	605	213	161	135	185	455
30	261	1,790	200	457	---	468	590	208	158	133	167	582
31	222	---	198	443	---	439	---	202	---	131	156	---
MEAN	170	596	653	1,975	595	370	545	296	209	160	180	270
MAX	287	1,790	2,400	11,400	1,620	533	1,320	567	654	262	448	748
MIN	129	192	198	189	382	266	356	202	151	131	123	116
IN.	0.25	0.85	0.96	2.92	0.79	0.55	0.78	0.44	0.30	0.24	0.27	0.39

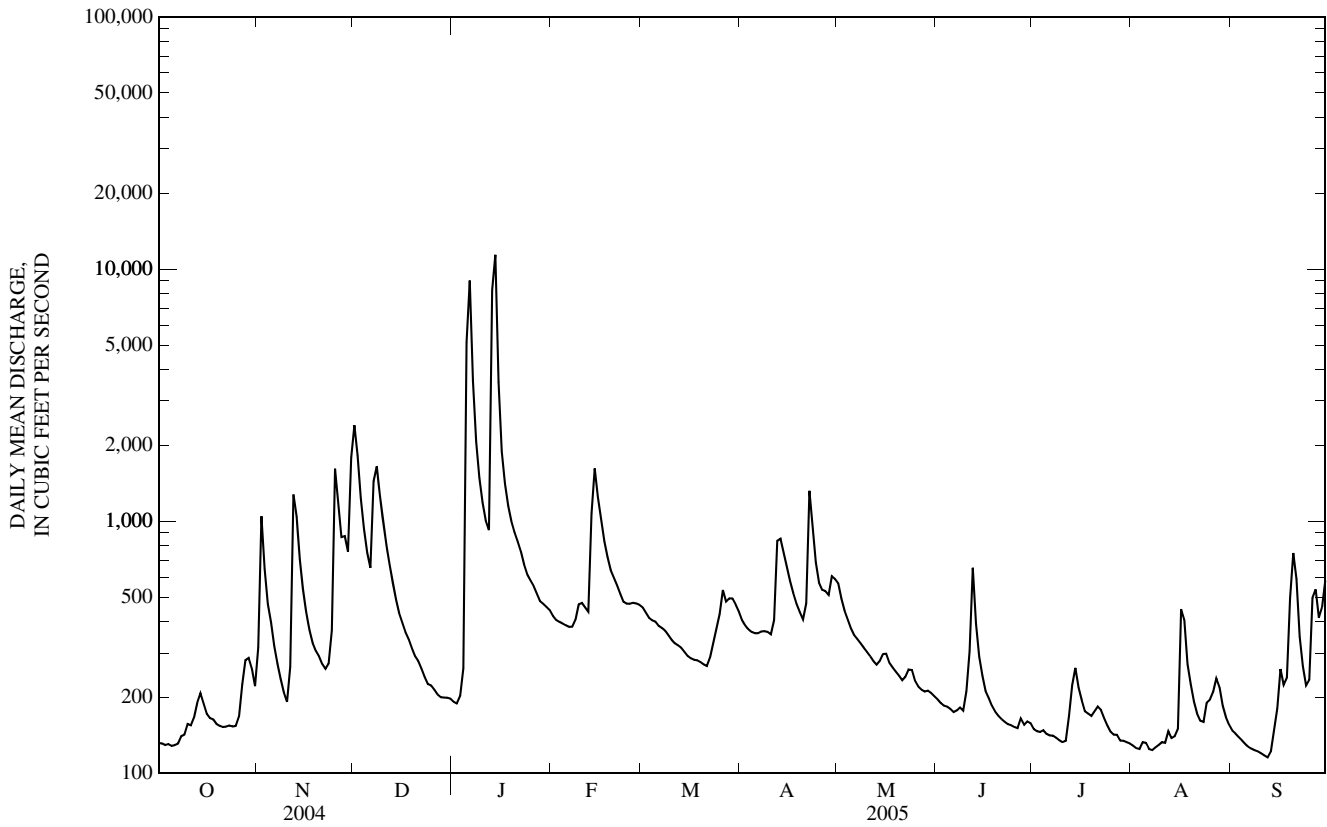
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2005, BY WATER YEAR (WY)

MEAN	279	492	564	580	653	874	1,072	991	712	373	264	276
MAX	2,562	2,995	4,712	3,155	2,397	2,842	4,954	4,370	4,644	3,461	1,181	2,664
(WY)	(1950)	(1994)	(1983)	(1950)	(1985)	(1945)	(1994)	(2002)	(1935)	(1998)	(1982)	(1993)
MIN	85.2	118	116	114	126	141	138	131	134	92.9	104	82.2
(WY)	(1957)	(1965)	(1965)	(1956)	(1934)	(1954)	(1954)	(1977)	(1932)	(1934)	(1936)	(1956)

07013000 MERAMEC RIVER NEAR STEELVILLE, MO—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1923 - 2005	
ANNUAL MEAN	512		502		593	
HIGHEST ANNUAL MEAN					1,473	1985
LOWEST ANNUAL MEAN					177	1954
HIGHEST DAILY MEAN	6,260	Mar 5	11,400	Jan 14	44,600	Jul 27, 1998
LOWEST DAILY MEAN	129	Oct 3,5	116	Sep 12	76	Jul 22, 1934
ANNUAL SEVEN-DAY MINIMUM	130	Oct 1	121	Sep 7	78	Oct 5, 1956
MAXIMUM PEAK FLOW	---		16,100	Jan 13	55,800	Jul 27, 1998
MAXIMUM PEAK STAGE	---		14.92 ^a	Jan 13	27.22	Jul 27, 1998
INSTANTANEOUS LOW FLOW	---		114	Sep 11-13	74	Jul 22, 1934
ANNUAL RUNOFF (INCHES)	8.93		8.73		10.32	
10 PERCENT EXCEEDS	1,040		885		1,090	
50 PERCENT EXCEEDS	307		282		266	
90 PERCENT EXCEEDS	153		139		132	

e Estimated
^a From floodmark.



07014000 HUZDAH CREEK NEAR STEELVILLE, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°58'29", long 91°12'16", in SW ¼ SW ¼ SE ¼ sec.25, T.38 N., R.3 W., Crawford County, Hydrologic Unit 07140102, at bridge on State Highway 8 at Huzzah Valley Resort, approximately 9 mi east of Steelville.

DRAINAGE AREA.--259 mi².

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 09...	1145	Environmental	101	12.1	114	7.7	418	12.3	220	44.4	25.9	1.20		
JAN 04...	1210	Environmental	115	11.1	100	7.6	369	10.1	--	--	--	--		
MAR 01...	1315	Environmental	175	13.6	116	8.0	365	7.7	--	--	--	--		
MAY 18...	1045	Environmental	135	9.1	97	8.2	395	17.2	200	39.7	24.1	1.20		
JUL 06...	1100	Environmental	58	7.7	92	7.8	403	23.0	--	--	--	--		
SEP 07...	1145	Environmental	67	8.5	100	7.6	421	22.4	--	--	--	--		
07...	1146	Replicate	--	8.6	100	7.7	423	22.3	--	--	--	--		
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)	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 09...	9.82	190	192	234	<1	3.67	E.1n	24.9	255	<10	E.06n	<.04	.22	
JAN 04...	--	--	--	--	--	--	--	--	--	<10	<.10	<.04	.21	
MAR 01...	--	--	--	--	--	--	--	--	--	<10	E.08n	<.04	.20	
MAY 18...	9.19	180	181	221	<1	2.88	<.1	21.0	236	<10	E.09n	<.04	.13	
JUL 06...	--	--	--	--	--	--	--	--	--	<10	E.07n	E.03n	.15	
SEP 07...	--	--	--	--	--	--	--	--	--	<10	E.08n	<.04	.19	
07...	--	--	--	--	--	--	--	--	--	<10	E.07n	<.04	.19	
Date		Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, col/100 mL (31633)	Fecal coliform, M-FC col/100 mL (31625)	Aluminum, water, fltrd, µg/L (01106)	Aluminum, water, unfltrd recoverable, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Cadmium water, fltrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)
NOV 09...	<.008	<.02	<.04	<.04	8k	9k	<2	10	.3	<.04	<.04	.5	<6	
JAN 04...	<.008	<.02	<.04	<.04	110	100	--	--	--	--	--	--	--	
MAR 01...	<.008	<.02	<.04	<.04	2k	2k	--	--	--	--	--	--	--	
MAY 18...	<.008	--u	<.04	<.04	8k	22	2	13	<.2	<.04	E.03n	.6	E4n	
JUL 06...	<.008	<.02	<.04	<.04	29	54k	--	--	--	--	--	--	--	
SEP 07...	<.008	<.09d	<.04	<.04	3k	32	--	--	--	--	--	--	--	
07...	<.008	<.09d	<.04	<.04	2k	41	--	--	--	--	--	--	--	

07014000 HUZAZH CREEK NEAR STEELVILLE, 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 09...	<.08	.08	2.4	<.01	.5	E.6n	<2
JAN 04...	--	--	--	--	--	--	--
MAR 01...	--	--	--	--	--	--	--
MAY 18...	E.07n	.13	3.6	<.01	<.4	1.0	E1n
JUL 06...	--	--	--	--	--	--	--
SEP 07...	--	--	--	--	--	--	--
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

Null value qualifier codes used in this table:

u -- Unable to determine-matrix interference

07014200 COURTOIS CREEK AT BERRYMAN, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°55'05", long 91°06'04", in NE ¼ SW ¼ SW ¼ sec.13, T.37 N., R.2 W., Crawford County, Hydrologic Unit 07140102, at bridge on State Highway 8, approximately 13 mi east of Steelville.

DRAINAGE AREA.--173 mi².

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, 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 09...	1000	Environmental	68	11.9	111	7.5	386	11.6	220	44.7	26.0	1.03	
JAN 04...	1000	Environmental	61	13.1	118	7.4	351	9.8	--	--	--	--	
MAR 01...	1115	Environmental	117	13.5	111	8.1	332	5.9	--	--	--	--	
MAR 01...	1116	Replicate	--	13.5	111	8.2	332	5.9	--	--	--	--	
MAY 18...	1400	Environmental	89	9.6	108	8.1	348	19.8	190	37.7	23.2	.94	
JUL 06...	0925	Environmental	22	7.2	85	7.5	390	22.1	--	--	--	--	
SEP 07...	1040	Environmental	16	7.8	92	7.6	400	22.6	--	--	--	--	
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 09...	2.38	191	191	233	<1	2.96	E.1n	15.7	226	<10	E.07n	<.04	.11
JAN 04...	--	--	--	--	--	--	--	--	--	<10	E.06n	<.04	.09
MAR 01...	--	--	--	--	--	--	--	--	--	<10	E.07n	<.04	.08
MAR 01...	--	--	--	--	--	--	--	--	--	<10	E.07n	<.04	.08
MAY 18...	1.80	168	168	205	<1	2.01	<.1	8.2	202	<10	<.10	<.04	E.05n
JUL 06...	--	--	--	--	--	--	--	--	--	<10	E.07n	E.03n	.10
SEP 07...	--	--	--	--	--	--	--	--	--	<10	E.06n	<.04	.08
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 09...	<.008	<.02	<.04	<.04	28	41	<2	4	.3	<.04	<.04	.5	E4n
JAN 04...	<.008	<.02	<.04	<.04	37	40	--	--	--	--	--	--	--
MAR 01...	<.008	<.02	<.04	<.04	1k	1k	--	--	--	--	--	--	--
MAR 01...	<.008	<.02	<.04	<.04	1k	2k	--	--	--	--	--	--	--
MAY 18...	<.008	--u	<.04	<.04	8k	16k	E1n	12	.2	<.04	<.04	.5	<6
JUL 06...	<.008	<.02	<.04	<.04	13k	27	--	--	--	--	--	--	--
SEP 07...	<.008	<.04d	<.04	<.04	6k	22	--	--	--	--	--	--	--

07014200 COURTOIS CREEK AT BERRYMAN, 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 09...	<.08	E.05n	1.2	<.01	E.4n	2.5	2
JAN 04...	--	--	--	--	--	--	--
MAR 01...	--	--	--	--	--	--	--
MAY 18...	E.06n	.15	3.7	<.01	<.4	1.8	E2n
JUL 06...	--	--	--	--	--	--	--
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

Null value qualifier codes used in this table:

- u -- Unable to determine-matrix interference

MERAMEC RIVER BASIN

07014500 MERAMEC RIVER NEAR SULLIVAN, MO

LOCATION.--Lat 38°09'31", long 91°06'30", in SE ¼ NE ¼ sec.35, T.40 N., R.2 W., Crawford County, Hydrologic Unit 07140102, on right bank at upstream side of Sappington Bridge, 3.8 mi downstream from Brazil Creek, 4.0 mi southeast of Sullivan, and at mile 117.0.

DRAINAGE AREA.--1,475 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1921 to September 1933, October 1943 to current year. Monthly discharge only for October 1943, published in WSP 1311.

REVISED RECORDS.--WSP 1007: 1922(M), 1924-30, 1933: Drainage area. WDR MO-02-1: 1982 peak stage.

GAGE.--Water-stage recorder. Datum of gage is 581.82 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 21, 1952, nonrecording gage at present site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1915 reached a stage of 33.5 ft, from information by local residents, discharge, 90,000 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	272	770	5,290	430	915	981	947	1,460	420	305	265	283
2	272	1,550	4,240	422	882	946	881	1,310	408	293	258	273
3	270	1,700	2,870	461	868	907	830	1,160	398	287	251	262
4	270	1,240	2,150	783	846	886	789	1,050	389	295	249	254
5	269	990	1,760	7,650	828	872	762	969	383	301	264	247
6	268	841	1,550	17,500	810	848	746	902	373	285	248	241
7	269	731	2,280	11,500	810	827	746	852	377	280	251	237
8	280	646	3,280	4,810	858	805	744	804	387	274	254	234
9	289	583	2,580	3,390	942	783	736	766	406	268	254	232
10	294	534	2,100	2,700	967	756	709	734	401	262	257	228
11	309	869	1,760	2,310	960	737	712	703	453	264	252	224
12	325	2,750	1,510	2,140	924	723	1,050	669	540	337	245	220
13	341	2,750	1,330	10,700	1,740	708	1,590	636	783	396	256	219
14	368	1,810	1,160	18,200	3,300	683	1,600	685	534	499	272	306
15	383	1,390	1,030	9,200	2,830	660	1,450	746	454	459	275	400
16	362	1,140	936	4,430	2,320	642	1,290	730	406	397	413	560
17	349	967	861	3,290	1,950	631	1,150	673	378	357	727	650
18	348	856	800	2,690	1,670	623	1,050	623	358	333	562	602
19	343	819	744	2,350	1,480	616	972	595	343	792	446	742
20	328	796	681	2,140	1,360	601	970	580	330	1,090	379	1,480
21	322	751	642	1,960	1,270	587	5,330	553	320	697	337	1,550
22	318	722	605	1,780	1,170	737	8,120	556	313	532	311	1,040
23	327	697	564	1,570	1,090	1,000	3,690	555	306	444	300	766
24	336	1,190	523	1,420	1,060	1,080	2,490	553	299	390	330	623
25	354	2,810	497	1,320	1,030	1,160	1,950	522	294	351	329	626
26	369	2,780	484	1,250	1,020	1,240	1,740	492	291	324	346	728
27	438	2,060	465	1,160	1,010	1,210	1,560	475	299	310	365	1,050
28	487	1,770	451	1,070	1,000	1,170	1,510	469	354	301	377	1,130
29	515	1,770	445	1,040	---	1,160	1,670	463	326	292	354	1,040
30	524	3,370	442	996	---	1,100	1,630	458	318	283	318	1,130
31	468	---	438	956	---	1,020	---	436	---	274	297	---
MEAN	344	1,388	1,434	3,923	1,282	861	1,647	715	388	386	324	586
MAX	524	3,370	5,290	18,200	3,300	1,240	8,120	1,460	783	1,090	727	1,550
MIN	268	534	438	422	810	587	709	436	291	262	245	219
IN.	0.27	1.05	1.12	3.07	0.91	0.67	1.25	0.56	0.29	0.30	0.25	0.44

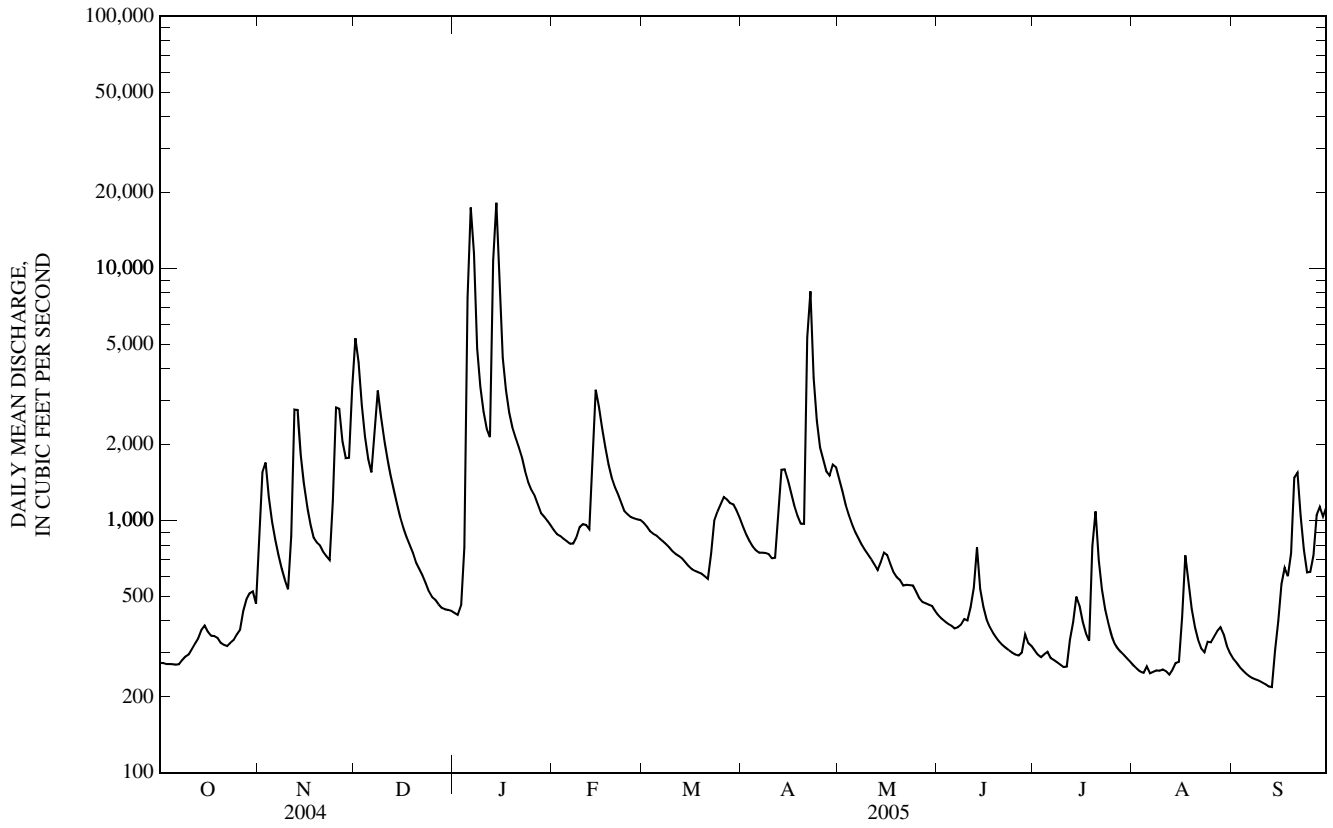
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	577	1,041	1,213	1,251	1,437	1,920	2,359	2,016	1,308	745	537	534
MAX	4,307	5,692	8,307	6,304	5,264	5,786	9,435	7,348	8,742	6,142	2,030	5,489
(WY)	(1950)	(1986)	(1983)	(1950)	(1982)	(1945)	(1994)	(2002)	(1945)	(1951)	(1982)	(1993)
MIN	156	249	232	216	281	295	347	292	263	205	199	146
(WY)	(1957)	(1957)	(1956)	(1956)	(1954)	(1954)	(1954)	(1932)	(1932)	(1954)	(1964)	(1956)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	FOR PERIOD OF RECORD
ANNUAL MEAN	1,079	1,106	1,243
HIGHEST ANNUAL MEAN			3,014
LOWEST ANNUAL MEAN			341
HIGHEST DAILY MEAN	9,830	Mar 5	18,200
LOWEST DAILY MEAN	268	Oct 6	219
ANNUAL SEVEN-DAY MINIMUM	270	Oct 1	228
MAXIMUM PEAK FLOW	---		19,900
MAXIMUM PEAK STAGE	---		16.34
INSTANTANEOUS LOW FLOW	---		214
ANNUAL RUNOFF (INCHES)	9.96		10.18
10 PERCENT EXCEEDS	2,240		2,080
50 PERCENT EXCEEDS	706		697
90 PERCENT EXCEEDS	326		274

07014500 MERAMEC RIVER NEAR SULLIVAN, MO—Continued



07014500 MERAMEC RIVER NEAR SULLIVAN, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1963 to July 1975, July 1977 to June 1990, November 1992 to current year.

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

Date	Time	Sample type	Instan- taneous dis- charge, cfs (00061)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unfl- trd μ S/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	
Date		ANC, wat unfl- xed end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfl- incrm. titr., field, mg/L as CaCO ₃ (00419)	Bicar- bonate, wat unfl- incrm. titr., field, mg/L (00450)	Carbon- ate, wat unfl- incrm. titr., field, mg/L (00447)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT 14...	1200	Environmental	367	8.9	91	7.6	371	15.1	--	--	--	--	
NOV 03...	1525	Environmental	1,570	8.6	85	7.7	349	13.7	170	36.2	20.4	2.18	
DEC 14...	0930	Environmental	1,180	12.8	101	7.9	275	5.3	--	--	--	--	
JAN 03...	1200	Environmental	465	10.5	102	7.9	323	13.0	170	33.8	21.7	1.25	
FEB 02...	1105	Environmental	877	12.8	106	7.5	297	6.1	--	--	--	--	
MAR 10...	0930	Environmental	754	10.9	95	8.0	317	8.1	--	--	--	--	
APR 05...	1310	Environmental	760	9.4	98	8.1	334	15.6	--	--	--	--	
MAY 04...	1220	Environmental	1,050	9.7	96	8.0	303	14.8	170	33.5	19.9	1.19	
JUN 08...	0920	Blank	--	--	--	--	--	--	--	--	--	--	
JUN 08...	0930	Environmental	386	6.1	76	8.0	354	25.1	--	--	--	--	
JUL 25...	1000	Environmental	353	5.9	80	8.1	374	29.8	200	40.3	25.0	1.31	
AUG 01...	1120	Environmental	266	7.4	95	8.1	349	27.1	--	--	--	--	
AUG 17...	1230	Environmental	896	7.3	89	7.6	340	24.4	--	--	--	--	
SEP 01...	0925	Environmental	283	6.0	76	8.2	365	25.9	--	--	--	--	
OCT 14...	--	--	--	--	--	--	--	--	<10	E.10n	<.04	.17	
NOV 03...	7.27	155	156	190	<1	8.41	E.1n	13.2	183	36	.34	<.04	.33
DEC 14...	--	--	--	--	--	--	--	--	<10	.12	<.04	.35	
JAN 03...	4.42	164	165	201	<1	4.37	.1	10.6	178	<10	.10	<.04	.21
FEB 02...	--	--	--	--	--	--	--	--	<10	E.08n	<.04	.52	
MAR 10...	--	--	--	--	--	--	--	--	<10	.11	<.04	.12	
APR 05...	--	--	--	--	--	--	--	--	<10	.13	<.04	E.04n	
MAY 04...	4.26	144	144	176	<1	3.72	E.1n	9.5	173	<10	.11	<.04	E.04n
JUN 08...	--	--	--	--	--	--	--	--	<10	<.10	<.04	<.06	
JUN 08...	--	--	--	--	--	--	--	--	<10	.15	<.04	.23	
JUL 25...	4.97	171	170	208	<1	4.22	<.1	11.5	206	<10	.13	<.04	.07
AUG 01...	--	--	--	--	--	--	--	--	<10	.13	<.04	<.06	
AUG 17...	--	--	--	--	--	--	--	--	15	.22	<.04	.17	
SEP 01...	--	--	--	--	--	--	--	--	<10	.18	<.04	E.04n	

07014500 MERAMEC RIVER NEAR SULLIVAN, MO—Continued

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

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli-form, M-FC 0.7µ MF col/ 100 mL (31625)	Aluminum, water, fltrd, µg/L (01106)	Aluminum, water, unfltrd recover-able, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Cadmium water, fltrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)
OCT 14...	<.008	<.02	<.04	<.04	29	28	--	--	--	--	--	--	--
NOV 03...	<.008	<.02	.04	.07	410k	490k	E1n	331	.4	<.04	E.03n	.8	7
DEC 14...	<.008	<.02	<.04	E.02n	18k	21	--	--	--	--	--	--	--
JAN 03...	<.008	<.02	<.04	<.04	66	56	E1n	44	.3	<.04	<.04	.5	6
FEB 02...	<.008	<.02	<.04	<.04	6k	6k	--	--	--	--	--	--	--
MAR 10...	<.008	<.02	<.04	<.04	3k	2k	--	--	--	--	--	--	--
APR 05...	<.008	<.02	<.04	<.04	3k	2k	--	--	--	--	--	--	--
MAY 04...	<.008	<.02	<.04	<.04	21	22	E1n	80	.2	<.04	<.04	.4	9
JUN 08...	<.008	<.02	<.04	<.04	--	--	--	--	--	--	--	--	--
JUN 08...	E.004n	<.02	<.04	<.04	18k	20	--	--	--	--	--	--	--
JUL 25...	<.008	<.02	<.04	<.04	30	41	2	72	.6	<.04	<.04	.5	15
AUG 01...	<.008	.14	.15	<.04	4k	34	--	--	--	--	--	--	--
AUG 17...	<.008	<.02	<.04	<.04	110k	120k	--	--	--	--	--	--	--
SEP 01...	<.008	<.02	E.02n	<.04	13k	21	--	--	--	--	--	--	--

Date	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover-able, µg/L (01051)	Manganese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover-able, µg/L (71900)	Selenium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover-able, µg/L (01092)
OCT 14...	--	--	--	--	--	--	--
NOV 03...	E.07n	1.41	2.7	<.01	<.4	2.8	3
DEC 14...	--	--	--	--	--	--	--
JAN 03...	.11	.27	5.4	<.01	E.3n	.8	E1n
FEB 02...	--	--	--	--	--	--	--
MAR 10...	--	--	--	--	--	--	--
APR 05...	--	--	--	--	--	--	--
MAY 04...	<.08	.37	12.7	<.01	<.4	.6	E2n
JUN 08...	--	--	--	--	--	--	--
JUN 08...	--	--	--	--	--	--	--
JUL 25...	<.08	.49	8.4	E.01n	E.2n	.6	E1n
AUG 01...	--	--	--	--	--	--	--
AUG 17...	--	--	--	--	--	--	--
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

07015720 BOURBEUSE RIVER NEAR HIGH GATE, MO

LOCATION.--Lat 38°08'49", long 91°34'51", in SW 1/4 NE 1/4 sec.4, T.39 N., R.6 W., Phelps County, Hydrologic Unit 07140103, on downstream side of right bridge pier on State Highway B, 1.8 mi downstream from Lanes Fork, 5.0 mi east of High Gate, and 11.0 mi north of St. James.

DRAINAGE AREA.--135 mi².

PERIOD OF RECORD.--July 1965 to current year. Occasional low-flow measurements 1963, 1964.

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

GAGE.--Water-stage recorder. Datum of gage is 802.1 ft above National Geodetic Vertical Datum of 1929 (levels by Missouri State Highway and Transportation Commission). Datum of gage prior to Oct. 1, 1987 was 2 ft higher. Prior to Aug. 17, 1966, nonrecording gage at present site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1957 reached a stage of about 23 ft, 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	3.7	500	622	11	52	66	43	251	3.3	2.5	0.46	1.9
2	3.6	284	326	304	53	59	36	141	3.1	2.3	0.44	1.2
3	3.4	110	196	949	63	55	31	95	2.9	2.0	0.42	0.69
4	3.8	134	139	1,840	63	54	27	70	2.8	1.9	0.35	0.49
5	3.4	82	110	8,050	57	50	25	59	2.7	2.0	0.36	0.32
6	3.2	54	143	1,220	54	47	24	49	2.9	1.9	0.34	0.18
7	4.0	40	2,150	474	161	46	23	41	2.7	1.7	0.27	0.12
8	6.7	30	513	271	579	41	22	35	2.9	1.6	0.22	0.10
9	6.1	25	277	188	357	38	20	31	3.1	2.1	0.22	0.08
10	6.3	20	173	149	187	37	19	27	30	2.5	0.19	0.05
11	6.6	e700	122	148	125	34	199	24	76	2.6	0.18	0.04
12	11	578	96	176	102	31	488	21	236	6.8	0.15	0.03
13	9.9	212	74	2,920	1,800	30	292	19	67	12	0.14	0.08
14	9.5	113	59	698	618	28	174	31	86	8.4	0.27	0.75
15	6.3	77	51	285	311	25	95	30	41	5.6	3.5	21
16	5.1	58	46	158	189	23	65	22	19	3.3	30	93
17	4.4	54	42	117	136	22	49	12	11	1.7	31	17
18	4.0	48	37	95	109	21	40	6.5	6.4	0.82	22	23
19	3.9	55	33	85	95	21	34	5.4	4.9	0.74	13	107
20	3.8	53	27	94	92	19	30	4.5	3.8	1.3	6.4	566
21	3.9	43	22	94	82	17	178	3.7	3.8	1.6	3.3	118
22	3.8	128	20	80	75	27	859	19	3.3	1.5	2.0	40
23	3.8	138	20	62	70	66	292	38	3.0	1.3	1.2	16
24	3.7	1,600	20	55	76	75	136	11	2.8	1.2	0.91	9.2
25	3.6	943	19	53	80	412	86	5.9	2.5	0.98	3.7	9.2
26	4.9	698	18	53	75	257	130	4.4	2.4	0.77	12	70
27	42	1,160	15	49	69	183	158	3.7	2.4	1.5	24	36
28	30	598	13	45	69	168	395	3.6	2.4	0.98	16	68
29	18	1,380	13	48	---	105	467	3.8	2.7	0.76	11	410
30	13	983	11	54	---	74	474	4.2	2.8	0.60	6.3	102
31	11	---	11	53	---	52	---	3.7	---	0.48	3.4	---
MEAN	7.95	363	175	609	207	70.4	164	34.7	21.2	2.43	6.25	57.0
MAX	42	1,600	2,150	8,050	1,800	412	859	251	236	12	31	566
MIN	3.2	20	11	11	52	17	19	3.6	2.4	0.48	0.14	0.03
IN.	0.07	3.00	1.49	5.20	1.60	0.60	1.35	0.30	0.18	0.02	0.05	0.47

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

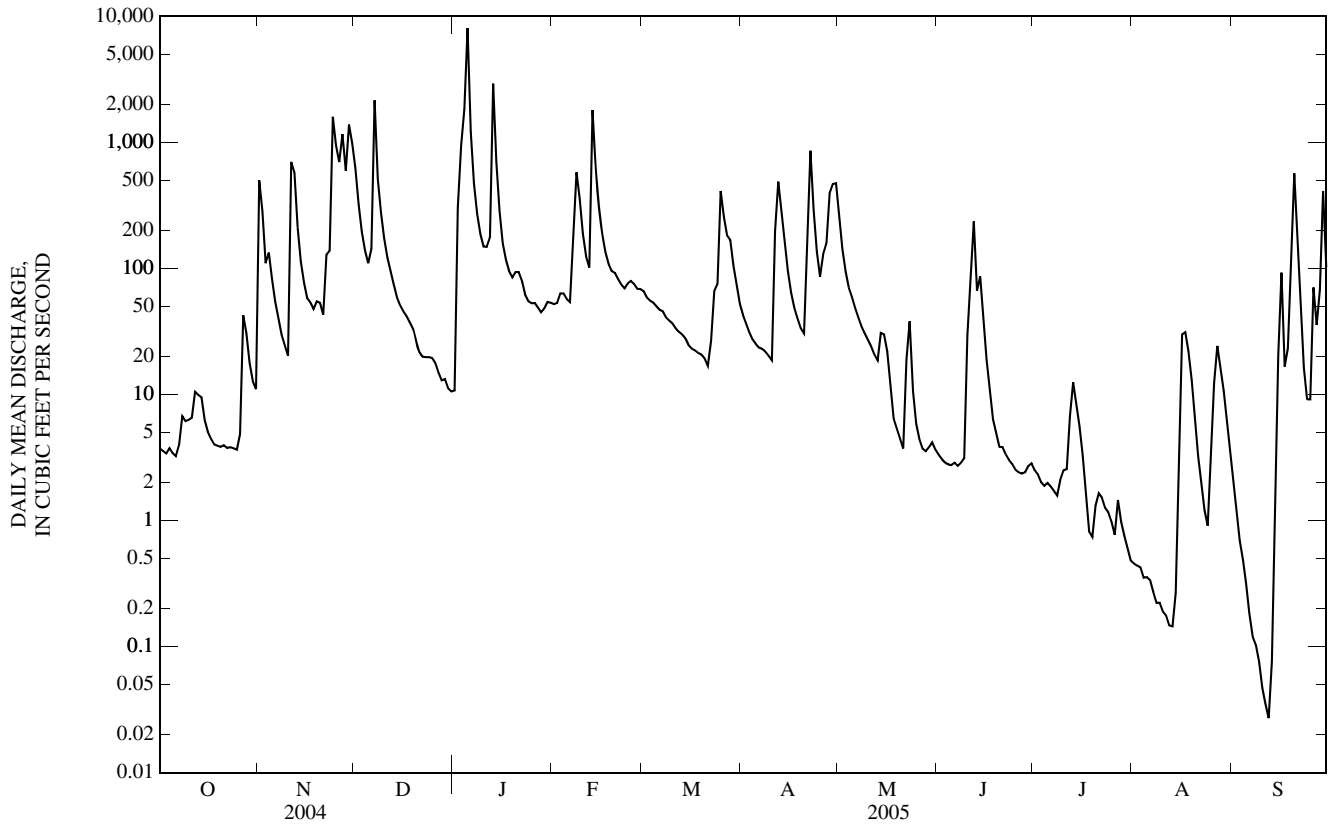
MEAN	41.8	155	176	161	174	233	258	190	133	50.6	36.8	43.7
MAX	552	799	1,213	609	634	747	1,191	894	963	546	373	865
(WY)	(1987)	(1986)	(1983)	(2005)	(1985)	(1984)	(1994)	(1995)	(1985)	(1998)	(1982)	(1993)
MIN	0.34	0.94	1.68	0.65	12.4	1.32	1.57	3.88	0.95	0.25	0.19	0.14
(WY)	(1967)	(1981)	(1990)	(1977)	(1981)	(1981)	(1981)	(1977)	(1972)	(1972)	(1971)	(1971)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1965 - 2005
ANNUAL MEAN	181	143	137
HIGHEST ANNUAL MEAN			315
LOWEST ANNUAL MEAN			15.6
HIGHEST DAILY MEAN	5,920	8,050	21,000
LOWEST DAILY MEAN	1.1	0.03	0.00
ANNUAL SEVEN-DAY MINIMUM	1.5	0.07	0.00
MAXIMUM PEAK FLOW	---	13,500	49,300
MAXIMUM PEAK STAGE	---	18.68	23.65
INSTANTANEOUS LOW FLOW	---	0.02	0.00
ANNUAL RUNOFF (INCHES)	18.24	14.34	13.77
10 PERCENT EXCEEDS	473	292	226
50 PERCENT EXCEEDS	42	28	20
90 PERCENT EXCEEDS	3.2	1.2	0.83

e Estimated

07015720 BOURBEUSE RIVER NEAR HIGH GATE, MO—Continued



07016400 BOURBEUSE RIVER ABOVE UNION, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 38°25'55", long 91°01'11", in NE ¼ NE ¼ SW ¼ sec.34, T.43 N., R.1 W., Franklin County, Hydrologic Unit 07140103, at bridge on North Bend Drive, 0.5 mi southwest of Union, 5.5 mi upstream from the Bourbeuse River near Union gaging station.

DRAINAGE AREA.--808 mi², approximately.

PERIOD OF RECORD.--November 1983 to October 1987, 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 03...	1250	Environmental	2,050	8.9	89	7.1	222	14.6	100	20.9	12.0	4.63
JAN 06...	1300	Environmental	17,100	11.4	93	6.8	75	5.9	--	--	--	--
MAR 10...	1120	Blank	--	--	--	--	--	--	--	--	--	--
MAR 10...	1130	Environmental	358	11.3	99	7.9	276	8.2	--	--	--	--
MAY 03...	1155	Blank	--	--	--	--	--	--	--	<.02	<.008	<.16
MAY 03...	1200	Environmental	863	9.3	91	7.4	190	13.9	88	17.3	10.9	1.85
JUL 25...	1205	Environmental	133	7.6	108	8.1	336	32.4	--	--	--	--
SEP 07...	1415	Environmental	109	7.1	89	7.6	270	26.3	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, incrm. titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, incrm. titr., field, mg/L (00450)	Carbonate, wat unfltrd, incrm. titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC, wat fltrd, mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)
NOV 03...	4.90	80	83	101	<1	6.95	E.1n	14.1	130	110	1.1	<.04	.14
JAN 06...	--	--	--	--	--	--	--	--	--	278d	1.2	E.03n	.20
MAR 10...	--	--	--	--	--	--	--	--	--	11	<.10	<.04	<.06
MAR 10...	--	--	--	--	--	--	--	--	--	14	.18	<.04	E.05n
MAY 03...	<.20	--	--	--	--	<.20	<.1	<.2	<10	<10	<.10	.05	<.06
MAY 03...	4.39	71	70	87	<1	4.69	E.1n	13.6	113	24	.40	<.04	.17
JUL 25...	--	--	--	--	--	--	--	--	--	<10	.22	<.04	<.06
SEP 07...	--	--	--	--	--	--	--	--	--	31	.30	<.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, water, col/100 mL (31633)	Fecal coliform, M-FC, col/100 mL (31625)	Aluminum, water, fltrd, μg/L (01106)	Aluminum, water, unfltrd recover-able, μg/L (01105)	Arsenic water, fltrd, μg/L (01000)	Cadmium water, fltrd, μg/L (01025)	Cadmium water, unfltrd, μg/L (01027)	Copper, water, fltrd, μg/L (01040)	Iron, water, fltrd, μg/L (01046)
NOV 03...	E.004n	.02	.08	.20	1,500	1,800k	5	1,070d	.8	<.04	.06	1.5	48
JAN 06...	E.004n	.02	.05	.32	6,300	8,600	--	--	--	--	--	--	--
MAR 10...	<.008	<.02	<.04	<.04	--	--	--	--	--	--	--	--	--
MAR 10...	<.008	<.02	<.04	<.04	2k	5k	--	--	--	--	--	--	--
MAY 03...	<.008	<.02	<.04	<.04	--	--	<2	2	<.2	<.04	<.04	<.4	<6
MAY 03...	<.008	<.02	E.02n	.06	74	120	4	415	.4	<.04	<.04	.9	24
JUL 25...	<.008	<.02	E.03n	E.03n	6k	11k	--	--	--	--	--	--	--
SEP 07...	<.008	<.04d	<.04	<.04	6k	11k	--	--	--	--	--	--	--

07016400 BOURBEUSE RIVER ABOVE UNION, 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...	.13	3.74	4.1	E.01n	<.4	1.3	7
JAN 06...	--	--	--	--	--	--	--
MAR 10...	--	--	--	--	--	--	--
MAY 03...	<.08	<.06	<.6	<.01	<.4	1.2	<2
03...	<.08	1.00	26.8	<.01	<.4	.7	4
JUL 25...	--	--	--	--	--	--	--
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

MERAMEC RIVER BASIN

07016500 BOURBEUSE RIVER AT UNION, MO

LOCATION.--Lat 38°26'39", long 90°59'44", in SW ¼ NW ¼ SE ¼ sec.26, T.43 N., R.1 W., Franklin County, Hydrologic Unit 07140103, on left bank at upstream side of the bridge on U.S. Highway 50, 800 ft upstream from Flat Creek, 0.5 mi east of Union, 7.0 mi upstream from Birch Creek, and at mile 13.4.

DRAINAGE AREA.--808 mi².

PERIOD OF RECORD.--June 1921 to current year. October 1916 to June 1921 gage heights only in reports of the National Weather Service.

REVISED RECORDS.--WSP 957: 1941. WSP 1147: Drainage area. WSP 1281: 1924.

GAGE.--Water-stage recorder. Datum of gage is 488.58 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1948, datum of all gages 3.00 ft higher. Prior to Oct. 21, 1933, nonrecording gage, at site 30 ft upstream; Oct. 21, 1933, to June 11, 1944, nonrecording gage, at present site.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 22, 1915, reached a stage of 28.5 ft, present datum, from floodmarks, discharge, about 50,000 ft³/s, determined from extension of rating curve for main channel based on measurements made since 1921 and study of overflow areas in vicinity of gaging station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	458	5,330	264	372	329	491	1,310	88	49	e38	29
2	46	938	3,410	323	378	311	414	1,170	82	58	e31	25
3	45	2,010	1,950	2,220	372	296	359	819	79	94	e27	24
4	44	1,080	1,310	7,040	356	283	317	625	75	73	e23	21
5	43	729	1,010	12,700	361	270	289	516	72	59	e21	18
6	41	622	887	17,200	366	257	270	440	71	48	e21	e15
7	44	547	2,750	26,700	387	251	249	381	68	40	e18	e15
8	44	467	7,200	18,100	463	243	233	337	80	36	e18	e15
9	41	399	5,120	2,150	1,270	238	222	304	79	33	e19	e14
10	43	342	1,850	1,540	1,550	232	214	276	83	29	e19	e13
11	45	709	1,300	1,270	1,250	220	228	251	85	31	e17	e13
12	59	1,710	1,000	1,120	937	212	419	230	86	e56	e18	17
13	46	4,120	830	4,190	1,620	202	2,330	212	112	e179	e22	16
14	81	1,700	716	8,920	5,640	193	1,770	206	122	e623	25	37
15	233	958	636	8,420	5,120	184	1,130	186	90	e266	41	121
16	156	708	571	2,220	1,920	177	807	172	160	e143	62	49
17	120	583	522	1,420	1,220	172	610	163	207	e81	68	111
18	117	534	487	1,070	900	166	489	153	181	e55	68	232
19	97	541	457	889	728	161	409	145	154	e46	62	133
20	85	633	430	804	630	154	355	137	130	e72	313	199
21	77	677	407	747	553	148	348	127	105	e147	243	339
22	89	585	383	710	503	323	4,960	130	91	e169	148	1,110
23	82	519	360	666	457	498	8,440	134	78	e131	117	621
24	69	1,040	349	605	425	814	2,610	127	70	e99	84	369
25	61	3,780	319	541	393	962	1,270	122	64	e72	106	274
26	74	6,740	304	489	371	1,240	895	120	66	e56	90	201
27	76	3,730	291	452	354	1,430	724	113	72	e88	60	162
28	67	3,920	280	420	348	1,020	670	112	65	e141	66	300
29	94	3,940	274	402	---	846	691	113	56	e90	83	649
30	145	3,060	270	380	---	748	1,100	103	55	e58	58	1,310
31	123	---	266	366	---	602	---	94	---	e40	42	---
MEAN	78.5	1,593	1,331	4,011	1,044	425	1,110	301	94.2	102	65.4	215
MAX	233	6,740	7,200	26,700	5,640	1,430	8,440	1,310	207	623	313	1,310
MIN	41	342	266	264	348	148	214	94	55	29	17	13
IN.	0.11	2.20	1.90	5.72	1.35	0.61	1.53	0.43	0.13	0.15	0.09	0.30

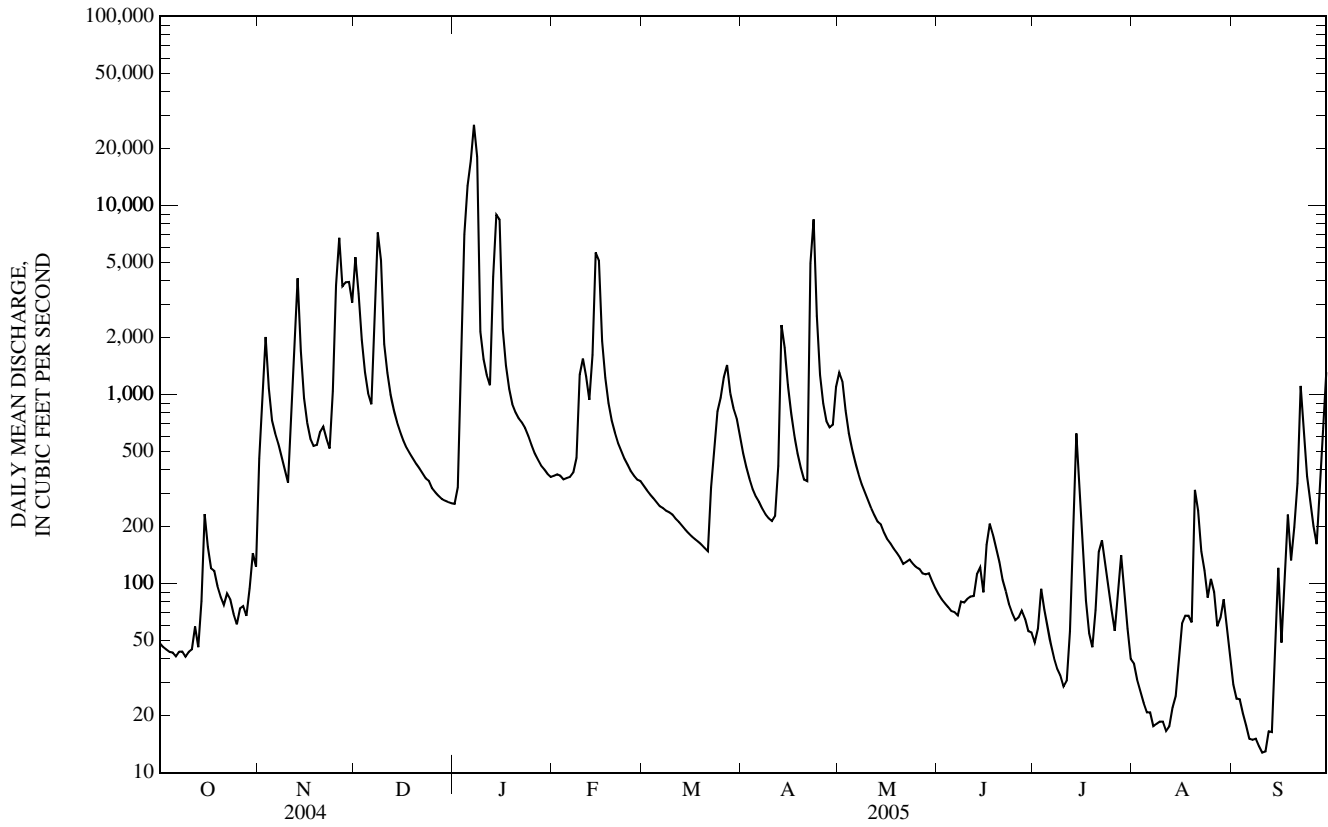
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2005, BY WATER YEAR (WY)

MEAN	289	539	652	689	792	1,125	1,277	1,167	838	331	198	243
MAX	4,575	3,320	6,107	4,011	3,214	4,207	5,303	4,578	4,583	3,650	1,927	4,859
(WY)	(1950)	(1986)	(1983)	(2005)	(1985)	(1984)	(1994)	(1995)	(1942)	(1993)	(1993)	(1993)
MIN	15.0	28.0	35.4	30.7	41.1	42.0	94.9	66.6	33.7	23.9	21.0	19.2
(WY)	(1957)	(1954)	(1954)	(1956)	(1963)	(1954)	(1956)	(1932)	(1936)	(1936)	(1936)	(1956)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1921 - 2005
ANNUAL MEAN	1,019	864	677
HIGHEST ANNUAL MEAN			1,771
LOWEST ANNUAL MEAN			106
HIGHEST DAILY MEAN	11,600	26,700	63,000
LOWEST DAILY MEAN	41	13	12
ANNUAL SEVEN-DAY MINIMUM			13
MAXIMUM PEAK FLOW	---	29,700	73,300
MAXIMUM PEAK STAGE	---	23.89	33.80
INSTANTANEOUS LOW FLOW	---	13	11
ANNUAL RUNOFF (INCHES)	17.18	14.52	11.38
10 PERCENT EXCEEDS	2,630	1,650	1,320
50 PERCENT EXCEEDS	395	251	173
90 PERCENT EXCEEDS	75	41	41

07016500 BOURBEUSE RIVER AT UNION, MO—Continued



07017200 BIG RIVER AT IRONDALE, MO

LOCATION.--Lat 37°49'48", long 90°41'27", in SE ¼ SW ¼ sec.15, T.36 N., R.3 E., Washington County, Hydrologic Unit 07140104, on right bank 50 ft upstream from bridge on State Highway U, 0.2 mi upstream from Mill Creek, and 0.8 mi west of Irondale.

DRAINAGE AREA.--175 mi².

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 753.28 ft above National Geodetic Vertical Datum of 1929 (Missouri State Highway and Transportation Commission bench mark).

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	8.7	173	1,080	53	96	102	118	121	26	10	9.3	9.5
2	8.9	513	471	54	97	92	103	103	25	9.8	8.8	8.6
3	8.7	192	330	55	111	87	91	90	25	8.9	8.3	7.9
4	8.6	165	266	75	106	87	83	80	24	11	7.9	7.3
5	8.6	115	226	3,090	101	81	76	71	23	13	7.4	6.9
6	8.8	81	239	1,740	98	74	72	65	21	11	7.7	6.5
7	9.0	61	792	690	112	72	72	59	20	11	9.4	6.2
8	11	47	419	442	172	68	70	55	21	9.7	8.8	6.1
9	15	39	308	343	197	63	64	53	21	9.0	8.3	5.9
10	14	34	252	281	190	61	61	50	20	9.0	7.7	5.8
11	13	1,890	214	247	168	58	61	79	19	9.0	7.2	5.5
12	17	816	187	223	155	56	96	145	19	20	6.7	5.3
13	19	308	160	e4,500	392	53	128	71	19	34	6.4	5.5
14	17	208	134	1,270	387	50	136	159	18	24	8.7	12
15	19	159	117	580	269	49	113	139	16	19	14	53
16	17	128	108	396	220	47	97	87	16	16	19	225
17	16	106	98	314	184	46	86	69	15	15	25	87
18	15	94	91	256	161	45	77	59	14	18	17	50
19	15	e134	81	220	145	44	71	53	14	26	14	39
20	15	e168	73	199	138	43	69	48	13	29	12	200
21	18	e137	71	185	124	42	220	44	13	24	10	85
22	18	124	67	166	110	312	389	44	12	20	9.9	47
23	26	118	59	140	105	697	274	43	12	17	9.9	34
24	41	1,230	54	130	124	359	210	38	11	15	e9.8	29
25	30	903	52	124	136	287	170	36	11	14	e9.7	32
26	25	379	52	117	126	239	168	34	11	12	e9.6	81
27	68	277	50	105	116	232	155	32	11	13	e11	61
28	177	226	49	97	112	231	146	34	9.8	13	e13	47
29	77	611	51	108	---	188	155	32	9.6	12	e12	185
30	50	1,880	53	113	---	163	143	30	9.5	11	e11	96
31	39	---	52	104	---	138	---	27	---	9.8	10	---
MEAN	26.9	377	202	530	159	134	126	66.1	16.6	15.3	10.6	48.3
MAX	177	1,890	1,080	4,500	392	697	389	159	26	34	25	225
MIN	8.6	34	49	53	96	42	61	27	9.5	8.9	6.4	5.3
IN.	0.18	2.41	1.33	3.49	0.95	0.89	0.80	0.44	0.11	0.10	0.07	0.31

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

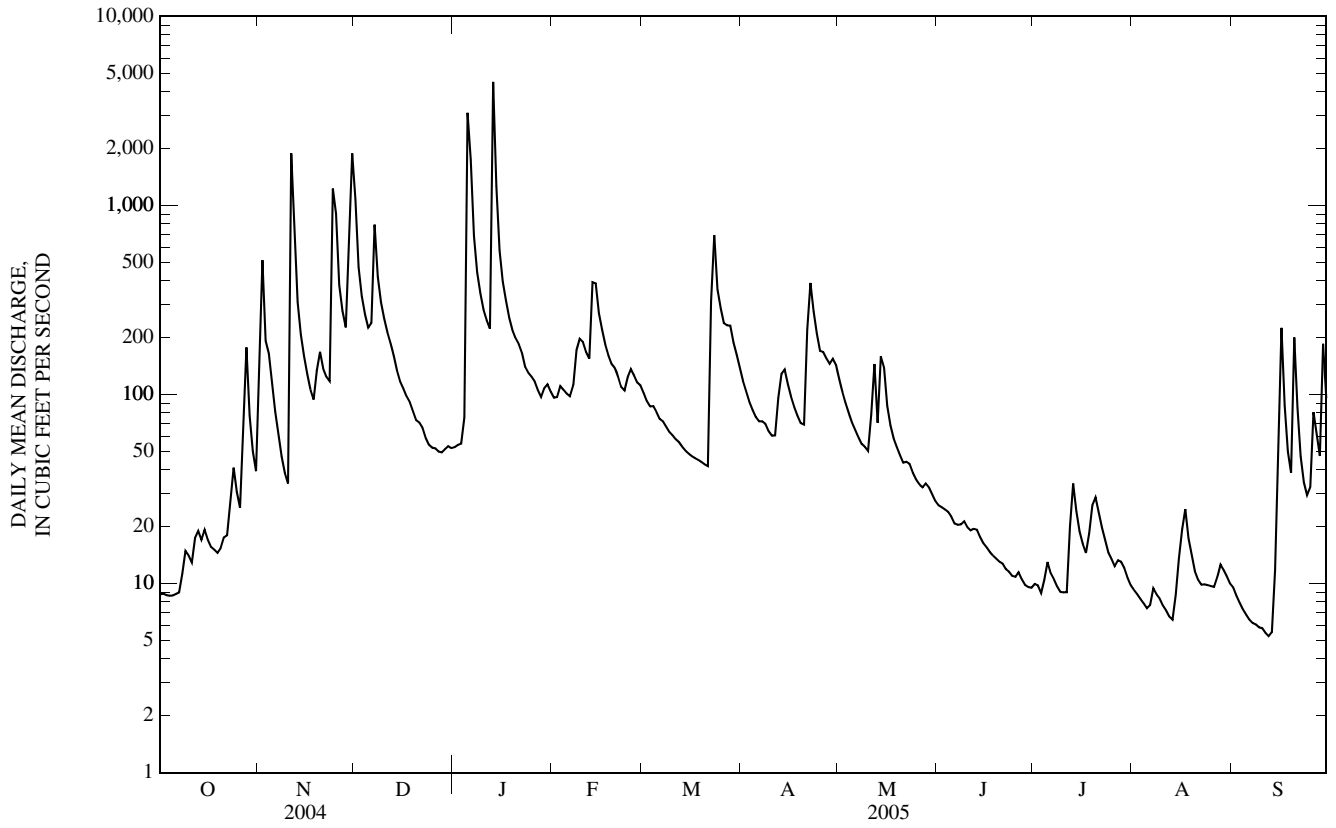
	MEAN	MAX	MIN	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)
MEAN	56.9	221	255	212	250	319	345	270	113	48.5	53.6	59.4
MAX	339	1,147	1,027	734	695	867	1,329	1,788	872	262	393	669
(WY)	(1971)	(1994)	(1983)	(1969)	(1985)	(1978)	(1994)	(2002)	(1985)	(1981)	(1970)	(1993)
MIN	6.95	10.5	13.7	11.1	24.9	38.9	39.7	17.3	9.95	4.69	4.27	3.10
(WY)	(1981)	(1981)	(1977)	(1981)	(1977)	(1981)	(2000)	(2000)	(1980)	(1980)	(2000)	(2000)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1965 - 2005
ANNUAL MEAN	153	143	183
HIGHEST ANNUAL MEAN			449
LOWEST ANNUAL MEAN			33.9
HIGHEST DAILY MEAN	2,320	May 1	21,300
LOWEST DAILY MEAN	8.6	Sep 28,29,Oct 4,5	1.2
ANNUAL SEVEN-DAY MINIMUM	8.7	Sep 28	1.5
MAXIMUM PEAK FLOW	---	11,400	49,100
MAXIMUM PEAK STAGE	---	13.60	28.95
INSTANTANEOUS LOW FLOW	---	5.0	0.72
ANNUAL RUNOFF (INCHES)	11.89	11.06	14.22
10 PERCENT EXCEEDS	324	267	361
50 PERCENT EXCEEDS	66	58	56
90 PERCENT EXCEEDS	12	9.4	10

e Estimated

07017200 BIG RIVER AT IRONDALE, MO—Continued



07018100 BIG RIVER NEAR RICHWOODS, MO

LOCATION.--Lat 38°09'35", long 90°42'22", in sec.33, T.40 N., R.3 E., Jefferson County, Hydrologic Unit 07140104, on left bank on downstream side of bridge on State Highway H, 1.8 mi east of Fletcher, 6.8 mi east of Richwoods, and at mile 53.7.

DRAINAGE AREA.--735 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1942 to current year. Prior to May 1949 monthly discharge only, published in WSP 1311. Prior to 1984 published as Big River near De Soto (07018000).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 523.00 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1983 at site 5.5 mi downstream at datum 15.79 ft higher.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1915 reached a stage of about 29.4 ft (former datum), discharge, about 70,500 ft³/s, from rating curve extended above 37,000 ft³/s.

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

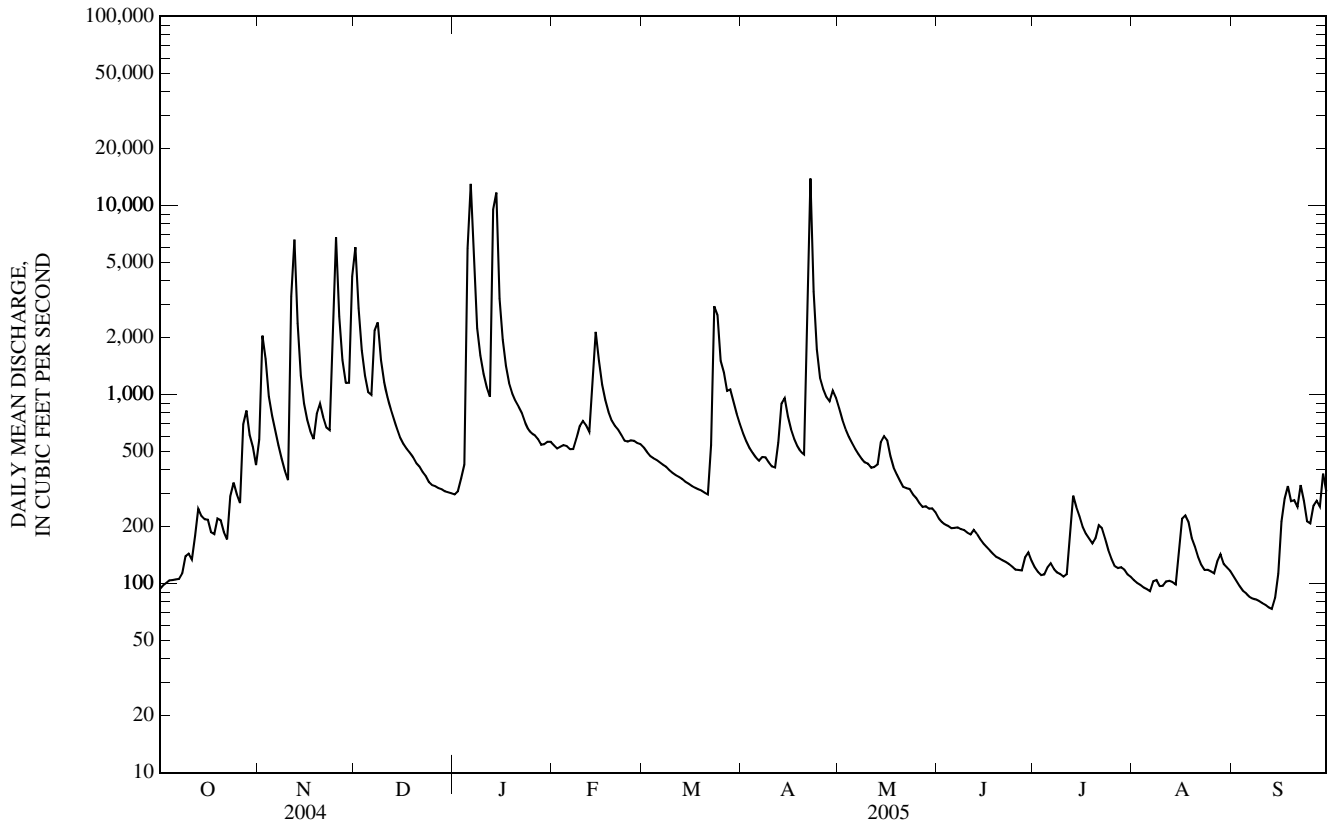
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	577	6,010	e296	538	526	625	845	222	122	104	110
2	98	2,050	2,860	e308	518	497	567	734	212	115	101	103
3	101	1,540	1,710	361	529	474	523	655	205	111	98	97
4	104	976	1,260	426	540	461	490	598	202	112	95	92
5	104	776	1,030	5,920	533	452	465	554	196	122	93	89
6	105	646	996	13,000	514	438	447	515	197	128	91	85
7	106	538	2,180	5,160	515	425	467	484	198	119	103	83
8	113	458	2,410	2,240	587	415	465	457	194	114	104	83
9	139	396	1,520	1,610	680	398	438	438	192	112	97	81
10	144	352	1,160	1,290	724	386	416	431	186	109	97	79
11	134	3,310	971	1,090	688	375	411	410	182	112	103	77
12	178	6,590	843	973	635	367	557	414	192	189	103	75
13	249	2,380	747	9,520	1,200	358	896	426	183	292	102	73
14	228	1,260	661	11,700	2,140	345	957	560	172	254	99	84
15	219	895	592	3,220	1,510	337	769	603	163	227	147	113
16	218	735	548	1,950	1,130	329	655	572	156	199	221	213
17	187	639	517	1,420	935	322	583	472	150	183	229	282
18	183	581	493	1,150	809	315	533	411	144	173	212	328
19	221	791	466	1,010	729	311	498	378	138	163	175	272
20	216	894	435	922	683	303	482	350	136	174	157	276
21	188	760	416	860	652	296	3,120	324	133	203	139	255
22	171	669	e389	797	611	541	13,900	320	130	196	126	332
23	290	648	e371	713	570	2,930	3,500	316	127	173	118	274
24	342	2,780	e344	654	564	2,640	1,730	296	123	150	118	213
25	297	6,780	e331	625	573	1,510	1,230	284	119	135	116	208
26	267	2,590	e327	609	569	1,310	1,070	267	118	124	113	258
27	696	1,520	e319	581	554	1,050	970	255	117	121	131	274
28	821	1,150	e315	543	546	1,060	920	256	138	122	143	255
29	612	1,150	e308	546	---	920	1,050	249	146	118	127	382
30	529	4,220	e304	562	---	793	962	250	132	112	122	307
31	424	---	e300	563	---	699	---	238	---	108	117	---
MEAN	251	1,622	1,004	2,278	742	696	1,323	431	163	151	126	182
MAX	821	6,780	6,010	13,000	2,140	2,930	13,900	845	222	292	229	382
MIN	93	352	300	296	514	296	411	238	117	108	91	73
IN.	0.39	2.46	1.58	3.57	1.05	1.09	2.01	0.68	0.25	0.24	0.20	0.28

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

MEAN	265	664	809	743	917	1,202	1,273	1,076	565	376	258	299
MAX	1,641	4,223	4,332	3,845	2,935	2,851	5,642	3,964	3,150	2,492	1,357	4,022
(WY)	(1950)	(1986)	(1983)	(1950)	(1985)	(1998)	(1994)	(2002)	(1985)	(1951)	(1950)	(1993)
MIN	47.5	87.9	90.5	84.0	124	123	175	148	110	86.0	69.9	40.6
(WY)	(1957)	(1977)	(1956)	(1977)	(1954)	(1954)	(2000)	(2001)	(1980)	(1980)	(1955)	(1956)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1949 - 2005
ANNUAL MEAN	725	747	703
HIGHEST ANNUAL MEAN			1,766
LOWEST ANNUAL MEAN			171
HIGHEST DAILY MEAN	7,160	May 2	13,900
LOWEST DAILY MEAN	91	Sep 30	73
ANNUAL SEVEN-DAY MINIMUM	94	Sep 26	79
MAXIMUM PEAK FLOW	---		21,400
MAXIMUM PEAK STAGE	---		20.36
INSTANTANEOUS LOW FLOW	---		72
ANNUAL RUNOFF (INCHES)	13.43		13.79
10 PERCENT EXCEEDS	1,560		1,300
50 PERCENT EXCEEDS	398		375
90 PERCENT EXCEEDS	125		110

07018100 BIG RIVER NEAR RICHWOODS, MO—Continued



07018100 BIG RIVER NEAR RICHWOODS, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1963 to July 1975, November 1983 to June 1987, November 1992 to current year. August 1963 to July 1975 published as Big River near De Soto (07018000).

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, μ S/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 03...	0930	Environmental	1,660	8.3	83	7.5	369	14.6	190	41.2	21.1	3.50			
JAN 03...	1515	Environmental	367	11.3	107	7.8	475	12.1	--	--	--	--			
MAR 10...	1310	Environmental	394	13.4	118	8.2	462	8.5	--	--	--	--			
MAY 04...	0920	Environmental	656	8.5	81	8.0	420	13.2	230	48.6	27.2	1.39			
JUL 25...	1415	Environmental	152	9.1	128	8.3	505	31.7	--	--	--	--			
SEP 01...	1150	Environmental	138	6.8	87	8.2	242	26.7	--	--	--	--			
Date			Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC, wat fltrd, mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)
NOV 03...	5.25	155	156	190	<1	7.33	E.1n	24.4	215	58	.65	<.04	E.03n		
JAN 03...	--	--	--	--	--	--	--	--	--	<10	.12	<.04	.24		
MAR 10...	--	--	--	--	--	--	--	--	--	<10	.14	<.04	<.06		
MAY 04...	4.48	189	190	232	<1	5.90	E.1n	21.2	243	<10	.14	<.04	.13		
JUL 25...	--	--	--	--	--	--	--	--	--	<10	.19	<.04	<.06		
SEP 01...	--	--	--	--	--	--	--	--	--	<10	.19	<.04	<.06		
Date			Nitrite, water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	E coli, m-TEC, MF, col/100 mL (31633)	Fecal coliform, M-FC, col/100 mL (31625)	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 03...	.036	<.02	.05	.13	1,800k	1,700k	2	586	.7	.05	.97	2.1	15		
JAN 03...	<.008	E.01n	<.04	E.03n	23	22	--	--	--	--	--	--	--		
MAR 10...	<.008	<.02	<.04	<.04	5k	<1b	--	--	--	--	--	--	--		
MAY 04...	<.008	<.02	<.04	<.04	56	39	E.1n	92	.4	.12	.23	.9	10		
JUL 25...	<.008	<.02	E.02n	E.03n	13k	59	--	--	--	--	--	--	--		
SEP 01...	<.008	<.02	E.03n	<.04	16k	23	--	--	--	--	--	--	--		

07018100 BIG RIVER NEAR RICHWOODS, 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...	2.90	159d	6.9	<.01	<.4	7.9	53
JAN 03...	--	--	--	--	--	--	--
MAR 10...	--	--	--	--	--	--	--
MAY 04...	2.66	23.3	31.4	<.01	<.4	8.3	20
JUL 25...	--	--	--	--	--	--	--
SEP 01...	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than.
E -- Estimated.

Value qualifier codes used in this table:

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

07018500 BIG RIVER AT BYRNESVILLE, MO

LOCATION.--Lat 38°23'30", long 90°38'16, in SE 1/4 sec.12, T.42 N., R.3 E., Jefferson County, Hydrologic Unit 07140104, on right bank on downstream side of pier of privately owned bridge at Byrnesville, 4.0 mi upstream from Heads Creek, and at mile 14.1.

DRAINAGE AREA.--917 mi².

PERIOD OF RECORD.--October 1921 to current year. Prior to June 1922 monthly discharge only, published WSP 1311.

REVISED RECORDS.--WSP 667: 1927. WSP 877: 1938. WSP 1007: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 433.69 ft above National Geodetic Vertical Datum of 1929. Prior to Mar. 9, 1940, nonrecording gage at present site and datum.

REMARKS.--Records good except for the periods Dec. 2-4 and 24-27, which are poor. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 21, 1915, reached a stage of 30.2 ft from floodmarks, discharge, 80,000 ft³/s, by slope-area 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	98	785	6,320	396	651	618	804	1,220	291	160	109	112
2	97	1,540	4,950	423	626	594	723	1,050	275	147	106	107
3	96	1,880	2,840	637	615	568	663	924	264	138	103	100
4	96	1,390	2,270	739	620	546	616	828	256	161	98	94
5	94	1,010	1,830	e4,750	626	531	580	754	249	155	96	89
6	92	832	1,610	10,700	614	517	553	697	242	137	91	85
7	93	702	2,980	13,500	618	507	564	649	239	142	90	83
8	98	597	3,460	4,630	712	491	622	608	242	140	90	89
9	107	519	2,660	2,350	806	478	569	573	237	132	99	91
10	112	457	1,920	1,810	861	461	533	549	232	126	97	77
11	129	1,520	1,580	1,520	858	445	509	530	231	125	93	76
12	140	6,030	1,330	1,350	803	436	713	516	229	154	95	82
13	163	4,930	1,120	7,350	1,560	423	1,200	501	227	177	98	74
14	219	2,040	957	12,500	2,250	412	1,340	533	221	269	111	75
15	239	1,330	855	11,600	2,180	397	1,090	669	208	282	110	91
16	214	1,040	785	3,120	1,550	387	895	670	199	250	123	103
17	211	884	721	2,070	1,250	376	771	638	190	227	192	142
18	211	792	680	1,590	1,060	366	685	551	182	203	221	229
19	220	1,010	639	1,350	935	361	623	490	177	191	229	295
20	233	1,150	603	1,220	856	354	581	456	171	182	196	301
21	239	1,060	570	1,130	803	347	4,450	421	165	176	167	280
22	212	918	541	1,040	759	620	8,190	404	163	197	150	268
23	274	833	511	938	711	1,800	13,200	394	159	203	135	297
24	334	2,170	472	848	669	3,550	3,660	382	156	190	126	295
25	351	6,470	449	788	653	2,380	1,960	359	152	165	136	271
26	348	5,330	440	751	655	1,740	1,600	343	151	147	132	245
27	404	2,400	426	721	649	1,440	1,430	329	146	141	118	260
28	690	1,690	415	680	635	1,240	1,290	319	145	127	116	386
29	787	1,530	407	654	---	1,190	1,470	314	146	120	132	459
30	629	3,130	401	650	---	1,030	1,410	304	168	118	129	438
31	556	---	398	660	---	905	---	301	---	113	117	---
MEAN	251	1,866	1,456	2,983	914	823	1,776	557	204	168	126	186
MAX	787	6,470	6,320	13,500	2,250	3,550	13,200	1,220	291	282	229	459
MIN	92	457	398	396	614	347	509	301	145	113	90	74
IN.	0.32	2.27	1.83	3.75	1.04	1.03	2.16	0.70	0.25	0.21	0.16	0.23

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

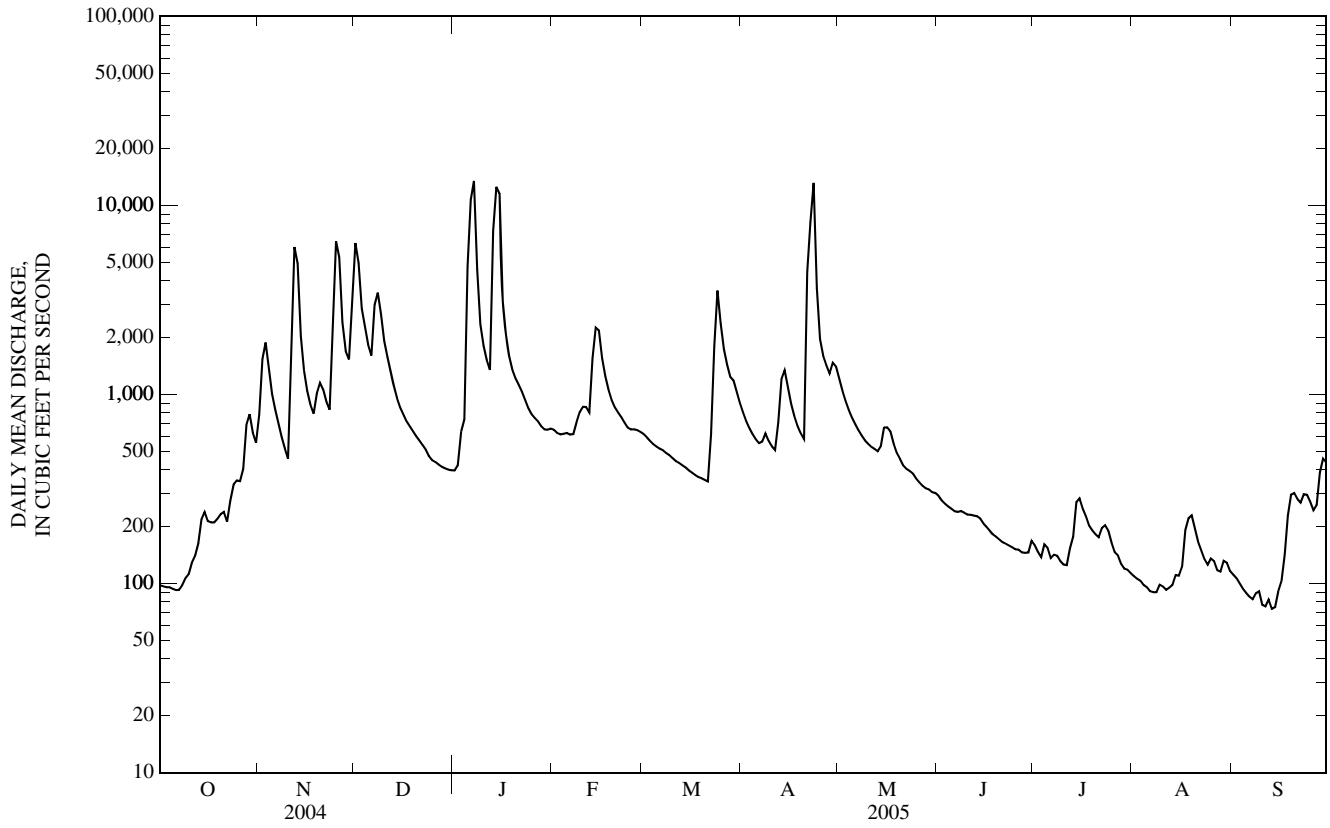
	321	712	870	932	1,099	1,425	1,656	1,450	818	472	292	340
MEAN	321	712	870	932	1,099	1,425	1,656	1,450	818	472	292	340
MAX	2,290	5,084	5,594	5,064	3,696	4,539	7,230	5,196	4,530	3,895	1,490	6,464
(WY)	(1950)	(1994)	(1983)	(1950)	(1982)	(1945)	(1994)	(1990)	(1928)	(1957)	(1950)	(1993)
MIN	49.7	99.6	103	90.4	139	137	237	177	105	56.4	41.4	48.7
(WY)	(1957)	(1977)	(1956)	(1977)	(1954)	(1954)	(2000)	(1932)	(1936)	(1936)	(1936)	(1956)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1922 - 2005
ANNUAL MEAN	899	942	865
HIGHEST ANNUAL MEAN			1,934
LOWEST ANNUAL MEAN			227
HIGHEST DAILY MEAN	6,530	May 27	13,500
LOWEST DAILY MEAN	92	Oct 6	74
ANNUAL SEVEN-DAY MINIMUM	95	Oct 1	81
MAXIMUM PEAK FLOW	---		15,900
MAXIMUM PEAK STAGE	---		19.58
INSTANTANEOUS LOW FLOW	---		69
ANNUAL RUNOFF (INCHES)	13.34		13.95
10 PERCENT EXCEEDS	1,980		1,850
50 PERCENT EXCEEDS	546		461
90 PERCENT EXCEEDS	137		108

e Estimated

07018500 BIG RIVER AT BYRNESVILLE, MO—Continued



07019000 MERAMEC RIVER NEAR EUREKA, MO

LOCATION.--Lat 38°30'20", long 90°35'30", in SE 1/4 sec.32, T.44 N., R.4 E., St. Louis County, Hydrologic Unit 07140102, on right bank, 44 ft upstream from bridge on north access roadway of I-44, 2.0 mi east of Eureka, 3.0 mi downstream from Big River, and at mile 34.1.

DRAINAGE AREA.--3,788 mi².

PERIOD OF RECORD.--August 1903 to July 1906, October 1921 to current year. Monthly discharge only for January, February, and March 1904, published in WSP 1311.

REVISED RECORDS.--WSP 877: 1938(M), WSP 977: 1942. WSP 1007: Drainage area. WSP 1281: 1924-25.

GAGE.--Water-stage recorder. Datum of gage is 404.18 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 17, 1933, nonrecording gage at site 200 ft upstream at different datum; Jan. 17, 1933, to Sept. 22, 1937, nonrecording gage; Sept. 23, 1937, to Sept. 30, 1971, water-stage recorder at present site at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 22, 1915, reached a stage of 42.2 ft, present datum, from floodmarks, discharge, 175,000 ft³/s, by slope-area measurement of peak flow.

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

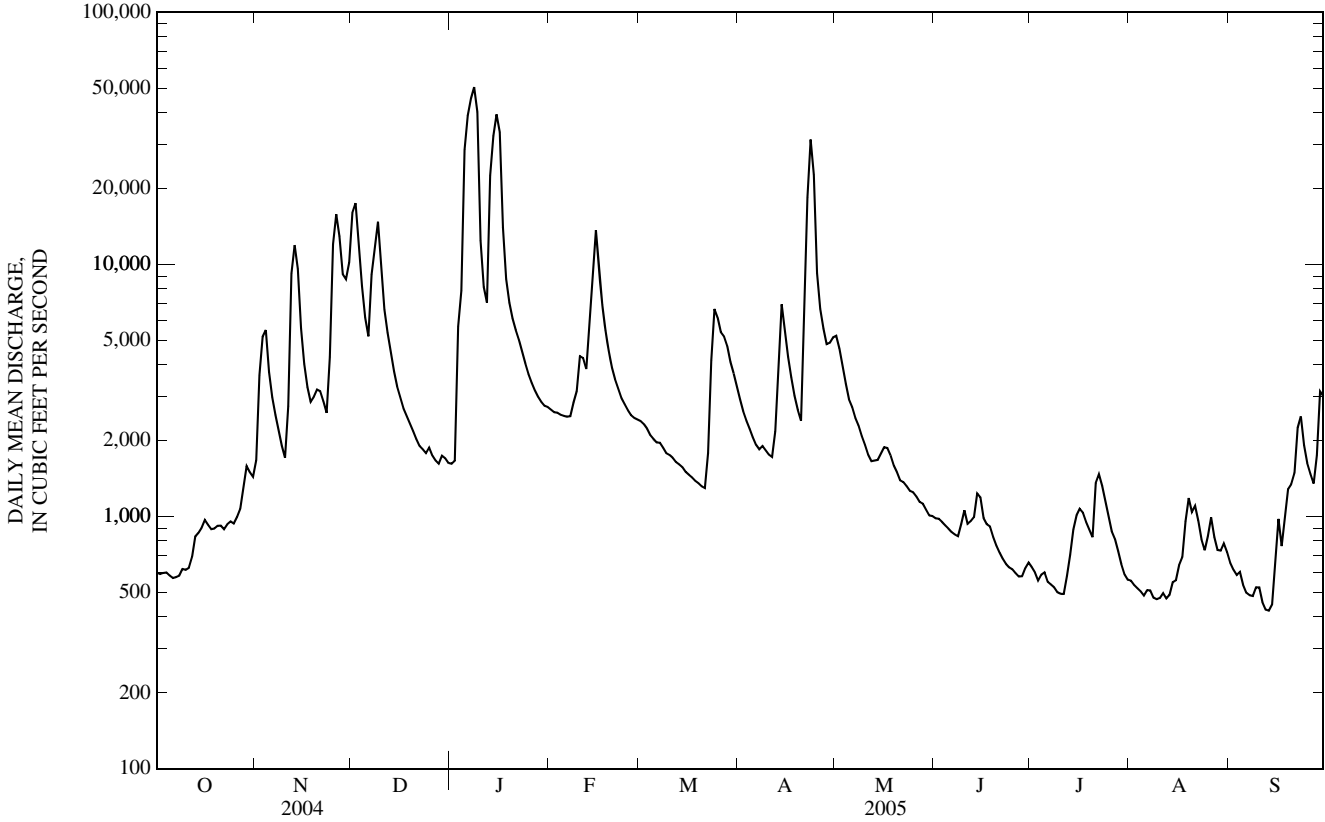
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	599	1,670	16,000	1,620	2,660	2,390	2,920	5,210	985	631	557	655
2	591	3,640	17,500	1,670	2,590	2,330	2,610	4,630	981	601	535	615
3	597	5,170	12,200	5,680	2,580	2,230	2,400	3,960	954	558	519	587
4	600	5,490	8,210	7,870	2,540	2,110	2,230	3,360	924	589	505	603
5	583	3,750	6,140	28,500	2,510	2,030	2,060	2,910	897	601	486	536
6	571	2,970	5,180	38,900	2,490	1,970	1,930	2,720	869	551	511	499
7	575	2,530	9,140	45,500	2,500	1,960	1,850	2,460	849	537	509	488
8	582	2,190	11,800	50,500	2,830	1,870	1,910	2,290	836	523	477	484
9	619	1,910	14,800	40,300	3,140	1,780	1,830	2,090	935	501	470	524
10	615	1,710	9,730	12,400	4,330	1,760	1,760	1,930	1,060	494	476	524
11	626	2,740	6,630	8,150	4,260	1,710	1,720	1,760	935	493	497	457
12	692	9,210	5,360	7,060	3,850	1,650	2,180	1,660	959	581	473	428
13	834	11,900	4,520	22,500	6,320	1,610	4,260	1,670	995	705	489	423
14	862	9,600	3,780	32,300	9,610	1,570	6,950	1,680	1,240	888	549	447
15	903	5,590	3,280	39,400	13,700	1,500	5,450	1,780	1,190	1,010	559	640
16	968	4,030	2,960	33,500	10,000	1,470	4,300	1,880	986	1,070	642	980
17	927	3,260	2,680	14,000	6,910	1,430	3,560	1,870	933	1,040	690	763
18	892	2,850	2,500	8,760	5,470	1,390	3,020	1,750	915	952	957	986
19	896	2,990	2,330	7,060	4,540	1,360	2,650	1,590	831	889	1,180	1,280
20	919	3,190	2,180	6,110	3,900	1,320	2,400	1,500	768	828	1,040	1,340
21	920	3,140	2,030	5,500	3,500	1,300	6,010	1,390	720	1,360	1,100	1,490
22	892	2,870	1,910	5,020	3,210	1,790	18,400	1,370	680	1,470	961	2,250
23	932	2,580	1,850	4,500	2,950	4,160	31,300	1,320	649	1,330	812	2,500
24	956	4,300	1,790	4,050	2,790	6,660	22,700	1,260	628	1,160	735	1,920
25	939	12,000	1,880	3,680	2,640	6,150	9,260	1,250	618	1,010	837	1,630
26	995	15,800	1,750	3,400	2,530	5,390	6,660	1,200	596	874	992	1,480
27	1,070	12,900	1,670	3,170	2,460	5,180	5,570	1,140	579	816	830	1,350
28	1,300	9,140	1,620	2,980	2,430	4,750	4,830	1,130	580	730	737	1,750
29	1,590	8,730	1,740	2,850	---	4,100	4,890	1,070	625	647	733	3,140
30	1,500	10,200	1,700	2,750	---	3,700	5,130	1,010	657	589	783	3,000
31	1,440	---	1,630	2,720	---	3,300	---	1,010	---	562	723	---
MEAN	870	5,602	5,371	14,590	4,259	2,643	5,758	1,995	846	793	689	1,126
MAX	1,590	15,800	17,500	50,500	13,700	6,660	31,300	5,210	1,240	1,470	1,180	3,140
MIN	571	1,670	1,620	1,620	2,430	1,300	1,720	1,010	579	493	470	423
IN.	0.27	1.65	1.64	4.44	1.17	0.80	1.70	0.61	0.25	0.24	0.21	0.33

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

MEAN	1,384	2,513	2,998	3,323	3,869	5,198	6,204	5,462	3,589	1,888	1,199	1,396
MAX	12,120	15,450	23,620	17,320	14,730	13,960	22,580	18,590	18,070	12,600	5,441	18,500
(WY)	(1950)	(1986)	(1983)	(1950)	(1982)	(1978)	(1927)	(2002)	(1945)	(1951)	(1993)	(1993)
MIN	236	464	426	374	538	514	945	708	503	318	255	244
(WY)	(1957)	(1957)	(1956)	(1956)	(1954)	(1954)	(1954)	(1932)	(1936)	(1936)	(1936)	(1956)

07019000 MERAMEC RIVER NEAR EUREKA, MO—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	3,781		3,712		3,239	
HIGHEST ANNUAL MEAN					7,407	1985
LOWEST ANNUAL MEAN					751	1954
HIGHEST DAILY MEAN	25,500	Mar 7	50,500	Jan 8	139,000	Dec 6, 1982
LOWEST DAILY MEAN	571	Oct 6	423	Sep 13	196	Aug 27, 1936
ANNUAL SEVEN-DAY MINIMUM	586	Oct 2	470	Sep 8	209	Aug 26, 1936
MAXIMUM PEAK FLOW	---		50,900	Jan 8	145,000	Dec 6, 1982
MAXIMUM PEAK STAGE	---		24.92	Jan 8	42.89	Dec 6, 1982
INSTANTANEOUS LOW FLOW	---		399	Sep 11	196	Aug 27, 1936
ANNUAL RUNOFF (INCHES)	13.59		13.30		11.62	
10 PERCENT EXCEEDS	9,870		8,170		6,770	
50 PERCENT EXCEEDS	2,160		1,720		1,410	
90 PERCENT EXCEEDS	800		580		532	



07019072 KIEFER CREEK NEAR BALLWIN, MO

LOCATION.--Lat 38°33'20", long 90°33'05", in NW ¼ SE ¼ NE ¼ sec.15, T.44 N., R.4 E., St. Louis County, Hydrologic Unit 07140102, on left downstream abutment of Castlewood Road bridge, 0.2 mi upstream of Spring Branch, 3.2 mi west of Highway 141, and 1.3 mi upstream of Meramec River.

DRAINAGE AREA.--3.91 mi².

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 438.90 ft above National Geodetic Vertical Datum of 1929.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	16	12	2.4	3.4	2.8	2.8	4.3	1.4	1.1	e1.8	1.3
2	1.4	8.7	6.4	6.5	3.2	2.5	2.6	3.7	1.4	1.2	1.7	1.3
3	1.3	5.0	4.5	52	3.2	2.4	2.5	3.5	1.4	1.2	e1.6	1.3
4	1.1	6.2	3.5	97	2.8	2.4	2.3	3.2	1.3	1.4	e1.6	1.3
5	1.0	3.7	3.0	162	2.5	2.3	2.1	3.2	1.3	1.7	e1.5	1.3
6	1.2	2.7	7.5	48	2.4	2.2	2.1	3.1	2.2	1.4	e1.5	1.2
7	1.3	2.1	59	31	7.2	3.4	1.9	3.1	1.9	1.2	e1.4	1.1
8	2.0	1.9	17	16	8.9	2.6	1.7	2.9	1.3	1.1	e1.4	1.1
9	1.9	2.1	12	9.0	7.5	2.2	2.1	2.9	1.8	0.98	e1.3	1.1
10	1.7	2.0	9.6	7.0	5.8	2.2	2.3	2.8	1.6	1.0	e1.3	1.1
11	1.6	54	9.1	7.7	4.8	2.3	3.5	2.8	2.9	1.6	1.9	1.1
12	6.1	16	7.6	50	4.4	2.2	21	2.9	3.9	14	2.7	1.2
13	5.3	6.2	6.6	127	31	1.9	17	2.9	16	7.2	3.3	1.2
14	3.5	4.5	5.4	38	16	1.8	8.9	4.4	7.2	3.9	11	3.5
15	8.4	3.5	4.8	23	9.2	1.6	6.0	3.4	2.6	4.0	8.8	49
16	3.7	3.1	4.5	13	7.0	1.6	5.2	2.9	1.6	3.2	6.6	15
17	2.4	2.8	4.1	10	6.1	1.7	4.9	2.6	1.5	2.4	3.6	7.4
18	7.2	4.1	3.8	8.4	5.4	1.7	4.5	2.5	1.3	2.4	3.8	4.5
19	4.6	11	3.3	7.6	4.8	1.6	4.3	2.5	1.2	2.9	3.9	15
20	2.2	5.4	3.1	7.2	4.8	1.3	4.1	2.5	1.1	2.2	2.5	20
21	1.7	3.5	2.7	6.3	4.4	1.2	9.9	2.2	1.0	e2.0	2.1	4.1
22	1.5	5.8	2.6	5.7	3.8	15	21	3.9	1.1	e1.8	2.0	2.8
23	2.8	4.9	2.4	4.8	3.5	9.9	7.7	2.8	1.1	e1.7	1.9	2.4
24	2.0	58	2.2	4.6	3.6	5.7	5.2	2.2	1.0	e1.6	1.9	2.1
25	1.7	23	2.1	4.4	3.3	8.1	4.5	2.0	1.1	e1.5	13	29
26	2.5	12	1.9	4.1	3.0	5.9	5.3	2.0	1.0	e1.7	14	10
27	8.3	13	1.7	3.4	3.0	4.6	4.1	1.9	1.0	4.4	5.3	3.5
28	3.7	9.0	1.7	3.1	3.2	4.1	4.7	2.4	1.2	2.9	2.8	26
29	2.3	8.9	1.7	3.7	---	3.9	5.6	1.9	1.2	2.4	2.1	8.5
30	2.1	18	1.6	3.9	---	3.5	5.2	2.3	1.2	2.1	2.2	4.3
31	1.8	---	1.6	3.4	---	3.2	---	1.6	---	1.9	1.5	---
MEAN	2.89	10.6	6.74	24.8	6.01	3.48	5.83	2.82	2.19	2.58	3.61	7.42
MAX	8.4	58	59	162	31	15	21	4.4	16	14	14	49
MIN	1.0	1.9	1.6	2.4	2.4	1.2	1.7	1.6	1.0	0.98	1.3	1.1
IN.	0.85	3.02	1.99	7.33	1.60	1.03	1.66	0.83	0.63	0.76	1.07	2.12

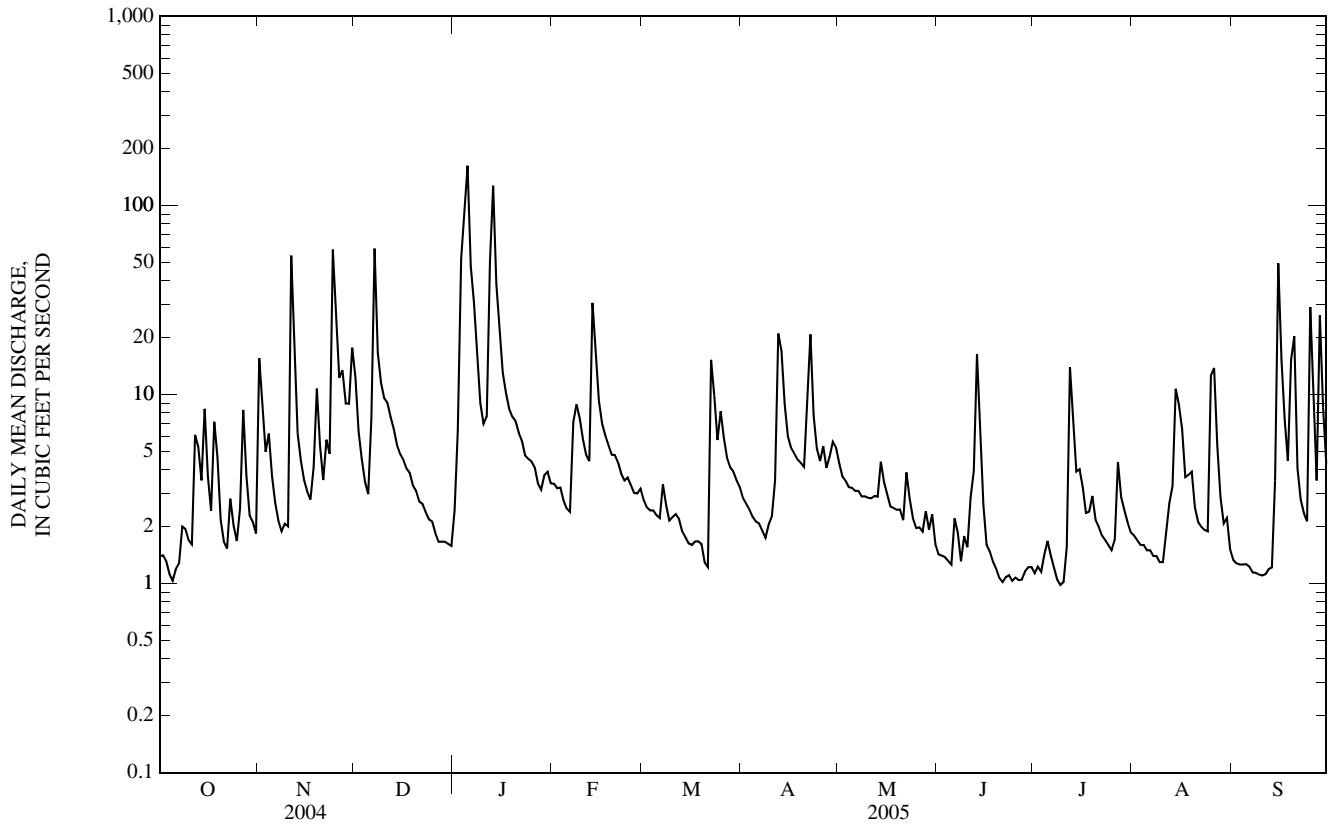
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)

MEAN	3.53	5.24	3.46	7.22	6.68	6.68	5.10	8.85	6.74	4.22	2.84	4.20
MAX	6.61	10.7	6.74	24.8	12.5	16.1	7.65	22.6	16.9	12.0	6.29	12.1
(WY)	(1997)	(1997)	(2005)	(2005)	(1999)	(1998)	(1998)	(2004)	(1998)	(2004)	(1998)	(1996)
MIN	1.86	1.35	1.35	1.41	3.14	2.75	1.97	2.82	1.68	1.70	0.96	0.82
(WY)	(2000)	(2000)	(1999)	(2000)	(2003)	(2001)	(2000)	(2005)	(1999)	(1997)	(2003)	(1999)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1996 - 2005
ANNUAL MEAN	7.58	6.59	5.33
HIGHEST ANNUAL MEAN			7.39
LOWEST ANNUAL MEAN			3.11
HIGHEST DAILY MEAN	146	162	251
LOWEST DAILY MEAN	1.0	0.98	0.52
ANNUAL SEVEN-DAY MINIMUM	1.2	1.0	0.63
MAXIMUM PEAK FLOW	---	Unknown	Unknown
MAXIMUM PEAK STAGE	---	6.48	9.04
INSTANTANEOUS LOW FLOW	---	0.98	0.22
ANNUAL RUNOFF (INCHES)	26.40	22.88	18.51
10 PERCENT EXCEEDS	14	12	9.9
50 PERCENT EXCEEDS	3.2	2.9	2.4
90 PERCENT EXCEEDS	1.6	1.3	1.1

e Estimated

07019072 KIEFER CREEK NEAR BALLWIN, MO—Continued



07019090 WILLIAMS CREEK NEAR PEERLESS PARK, MO

LOCATION.--Lat 38°32'04", long 90°30'51", St. Louis County, Hydrologic Unit 07140102, on left downstream wingwall of Meramec Station Road bridge, 0.1 mi south of Interstate 44, 1.01 mi west of Highway 141, and 0.6 mi upstream of Meramec River.

DRAINAGE AREA.--7.62 mi².

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 415.75 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	0.73	2.2	24	1.6	5.3	4.5	5.1	9.2	1.6	1.3	0.65	1.6
2	0.76	8.8	15	3.4	5.0	4.2	4.8	8.5	1.6	1.3	0.63	1.6
3	0.90	5.8	12	65	4.9	3.8	4.7	7.7	1.6	1.2	0.63	1.5
4	0.97	6.0	9.4	69	4.9	3.8	4.5	6.9	1.6	1.2	0.58	1.5
5	0.96	4.4	7.8	185	4.9	3.7	4.3	6.3	1.6	1.9	0.53	1.4
6	0.84	3.8	7.9	56	4.9	3.5	4.0	5.9	1.6	1.6	0.53	1.3
7	0.73	3.3	39	23	5.2	3.7	3.8	5.6	1.7	1.3	0.53	1.3
8	0.78	2.7	22	e16	7.1	3.5	3.3	5.2	1.7	1.3	0.53	1.3
9	0.95	2.3	15	e13	7.8	3.2	3.0	4.8	70	1.3	0.53	1.3
10	0.89	3.1	12	11	8.2	3.1	3.0	4.4	25	1.2	0.49	1.3
11	0.82	23	10	9.8	7.9	3.0	2.8	4.2	21	1.3	0.45	1.3
12	2.5	10	8.8	21	7.7	3.0	5.6	3.8	14	4.8	0.45	1.3
13	3.6	5.1	7.0	145	19	2.8	13	3.6	7.6	3.3	1.7	1.4
14	2.1	3.3	6.8	36	16	2.5	12	3.5	7.1	2.3	5.7	1.5
15	3.9	2.2	6.3	20	12	2.1	10	3.4	5.0	2.8	2.9	24
16	2.1	1.8	5.3	e15	9.7	2.1	9.0	3.2	4.0	2.0	3.8	6.2
17	1.4	1.4	4.6	e12	8.4	2.2	8.5	2.8	3.4	1.5	2.0	2.4
18	2.1	2.1	4.9	e11	7.4	2.3	8.0	2.8	3.2	1.5	3.2	1.4
19	2.8	4.7	3.9	e9.6	6.7	2.2	7.4	2.8	2.8	1.5	3.6	1.1
20	1.7	3.1	3.4	e8.8	6.6	2.0	6.9	2.7	2.5	1.3	1.8	4.0
21	1.2	2.1	3.4	e7.8	6.1	1.9	16	2.5	2.3	1.1	1.2	1.9
22	1.1	2.8	2.7	e7.1	5.3	7.4	72	2.5	2.1	1.1	0.90	1.1
23	2.1	2.5	2.5	e7.2	5.1	14	24	2.5	2.0	1.1	0.77	0.83
24	2.7	44	2.2	7.0	5.3	11	17	2.3	1.9	1.1	0.73	0.65
25	e1.1	23	2.1	6.8	5.1	11	14	2.1	1.8	0.96	4.7	5.6
26	e1.6	15	2.0	6.5	4.9	9.8	14	1.8	1.8	0.96	5.9	6.4
27	e5.2	12	1.7	6.0	4.7	8.5	11	1.8	1.6	0.96	3.9	2.9
28	e2.4	9.9	1.7	5.5	4.7	7.8	10	1.8	1.6	0.96	2.4	10
29	e1.5	9.5	1.8	5.4	---	7.0	10	1.8	1.4	0.86	1.8	12
30	e1.4	20	1.8	5.5	---	6.5	10	1.7	1.3	0.84	1.8	6.9
31	e1.3	---	1.8	5.6	---	5.8	---	1.6	---	0.75	1.8	---
MEAN	1.71	8.00	8.03	25.9	7.17	4.90	10.7	3.86	6.55	1.50	1.84	3.57
MAX	5.2	44	39	185	19	14	72	9.2	70	4.8	5.9	24
MIN	0.73	1.4	1.7	1.6	4.7	1.9	2.8	1.6	1.3	0.75	0.45	0.65
IN.	0.26	1.17	1.21	3.91	0.98	0.74	1.57	0.58	0.96	0.23	0.28	0.52

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

	1997	1998	1999	2000	2001	2002	2003	2004	2005			
MEAN	1.67	3.30	3.71	8.22	8.19	10.5	9.57	10.6	7.11	3.34	2.24	1.72
MAX	3.22	8.08	10.4	25.9	21.5	30.5	17.8	25.3	16.7	8.27	5.75	3.77
(WY)	(2002)	(2004)	(2002)	(2005)	(1999)	(1998)	(1998)	(2002)	(1998)	(1998)	(1998)	(2003)
MIN	0.75	0.62	0.91	0.76	1.96	1.69	1.25	1.71	1.98	0.93	0.73	0.56
(WY)	(2000)	(2000)	(1999)	(2000)	(2000)	(2000)	(2000)	(2001)	(2001)	(2002)	(2002)	(1999)

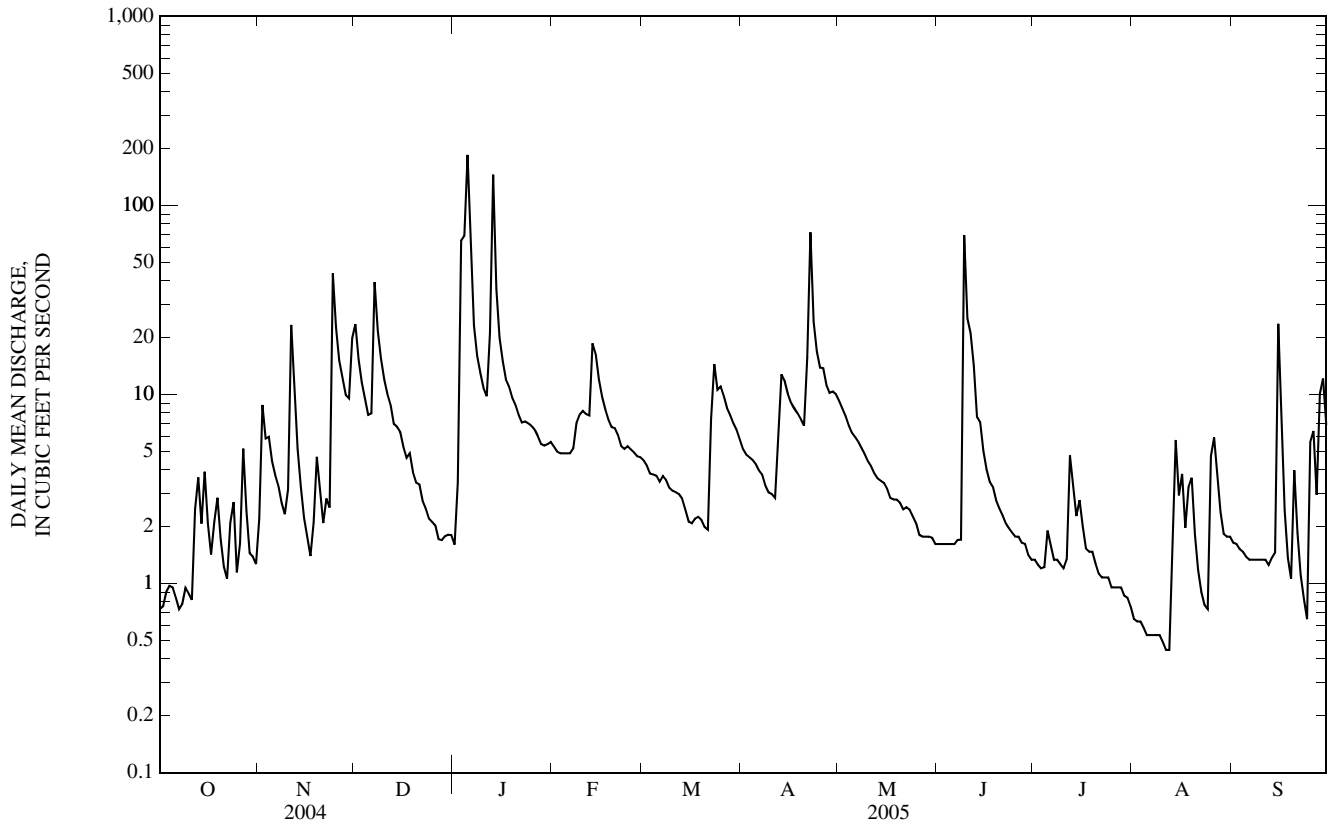
SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1997 - 2005
ANNUAL MEAN	7.78	6.97	5.85
HIGHEST ANNUAL MEAN			9.20
LOWEST ANNUAL MEAN			2.61
HIGHEST DAILY MEAN	104	185	208
LOWEST DAILY MEAN	0.54	0.45	0.29
ANNUAL SEVEN-DAY MINIMUM	0.66	0.50	0.29
MAXIMUM PEAK FLOW	---	685 ^a	685 ^a
MAXIMUM PEAK STAGE	---	9.85	9.85
INSTANTANEOUS LOW FLOW	---	0.45	0.29
ANNUAL RUNOFF (INCHES)	13.90	12.42	10.43
10 PERCENT EXCEEDS	17	13	14
50 PERCENT EXCEEDS	4.4	3.3	2.0
90 PERCENT EXCEEDS	1.1	1.1	0.67

e Estimated

^a From rating extended above 305 ft³/s.

07019090 WILLIAMS CREEK NEAR PEERLESS PARK, MO—Continued



07019120 FISHPOT CREEK AT VALLEY PARK, MO

LOCATION.--Lat 38°33'06", long 90°30'41", in NE ¼ NE ¼ SE ¼ sec.13, T.44 N., R.4 E., St. Louis County, Hydrologic Unit 07140102, on right downstream abutment of Hanna Road bridge, 4.4 mi west of Interstate 270, 1.0 mi north of Interstate 44, and 1.7 mi upstream of confluence of Meramec River.

DRAINAGE AREA.--9.58 mi².

PERIOD OF RECORD.--July 1996 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 422.02 ft above National Geodetic Vertical Datum of 1929. Prior to July 1996, at datum 420.00 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 12.00 ft, former datum, discharge 6,200 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	0.00	35	2.3	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.19
2	0.00	0.68	0.03	12	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.10
3	0.00	0.17	0.00	179	0.01	0.00	0.00	0.07	0.00	0.00	0.00	0.03
4	0.00	0.06	0.00	328	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.01
5	0.00	0.01	0.01	476	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
6	0.00	0.00	11	17	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
7	0.00	0.00	152	2.4	15	0.00	0.00	0.05	0.00	0.00	0.00	0.00
8	0.00	0.00	0.14	1.5	1.4	0.00	0.00	0.04	0.00	0.00	0.00	0.00
9	0.00	0.00	0.01	1.0	0.15	0.00	0.00	0.03	8.8	0.00	0.00	0.00
10	0.00	0.00	0.00	0.77	0.03	0.00	0.00	0.02	0.62	0.00	0.00	0.00
11	0.00	183	0.00	3.8	0.01	0.00	0.00	0.01	15	0.14	0.00	0.00
12	0.47	3.4	0.00	e227	0.00	0.00	108	0.01	0.38	1.6	0.00	0.00
13	0.01	0.29	0.00	e480	81	0.00	13	0.00	33	0.32	44	0.00
14	0.44	0.10	0.00	15	0.35	0.00	0.33	0.08	1.3	0.40	8.7	0.34
15	0.22	0.05	0.00	e4.0	0.03	0.00	0.21	0.03	0.20	22	7.0	217
16	0.23	0.02	0.00	e3.0	0.01	0.00	0.17	0.00	0.15	0.51	0.59	10
17	0.05	0.01	0.00	e2.0	0.00	0.00	0.13	0.00	0.12	0.18	0.10	1.7
18	2.1	0.90	0.00	e1.3	0.00	0.00	0.09	0.00	0.09	0.18	0.14	1.3
19	0.06	4.3	0.00	e1.1	0.00	0.00	0.07	0.00	0.05	0.14	0.04	15
20	0.00	0.31	0.00	e1.0	0.00	0.00	0.08	0.00	0.02	0.10	0.03	99
21	0.00	0.11	0.00	e0.90	0.00	0.00	0.59	0.00	0.00	0.07	0.02	1.1
22	0.00	0.50	0.00	e0.80	0.00	43	40	0.05	0.00	0.04	0.01	0.77
23	0.03	0.11	0.00	e0.65	0.00	0.15	0.39	0.01	0.00	0.01	0.00	0.65
24	0.00	201	0.00	e0.50	0.00	0.00	0.23	0.00	0.00	0.00	0.01	0.52
25	0.00	2.9	0.00	0.42	0.00	0.22	0.20	0.00	0.00	0.00	69	53
26	0.21	0.15	0.00	0.26	0.00	0.00	0.26	0.00	0.00	0.00	44	3.3
27	0.02	4.0	0.00	0.09	0.00	0.00	0.15	0.00	0.00	0.12	1.2	0.86
28	0.00	0.06	0.00	0.03	0.00	0.00	0.26	0.00	0.00	0.02	0.53	102
29	0.00	3.9	0.00	0.19	---	0.00	0.18	0.00	0.00	0.00	0.38	3.8
30	0.01	27	0.00	0.03	---	0.00	0.13	0.00	0.00	0.00	0.32	0.77
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.26	---
MEAN	0.12	15.6	5.34	56.8	3.50	1.40	5.48	0.03	1.99	0.83	5.69	17.0
MAX	2.1	201	152	480	81	43	108	0.10	33	22	69	217
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IN.	0.01	1.82	0.64	6.83	0.38	0.17	0.64	0.00	0.23	0.10	0.68	1.99

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

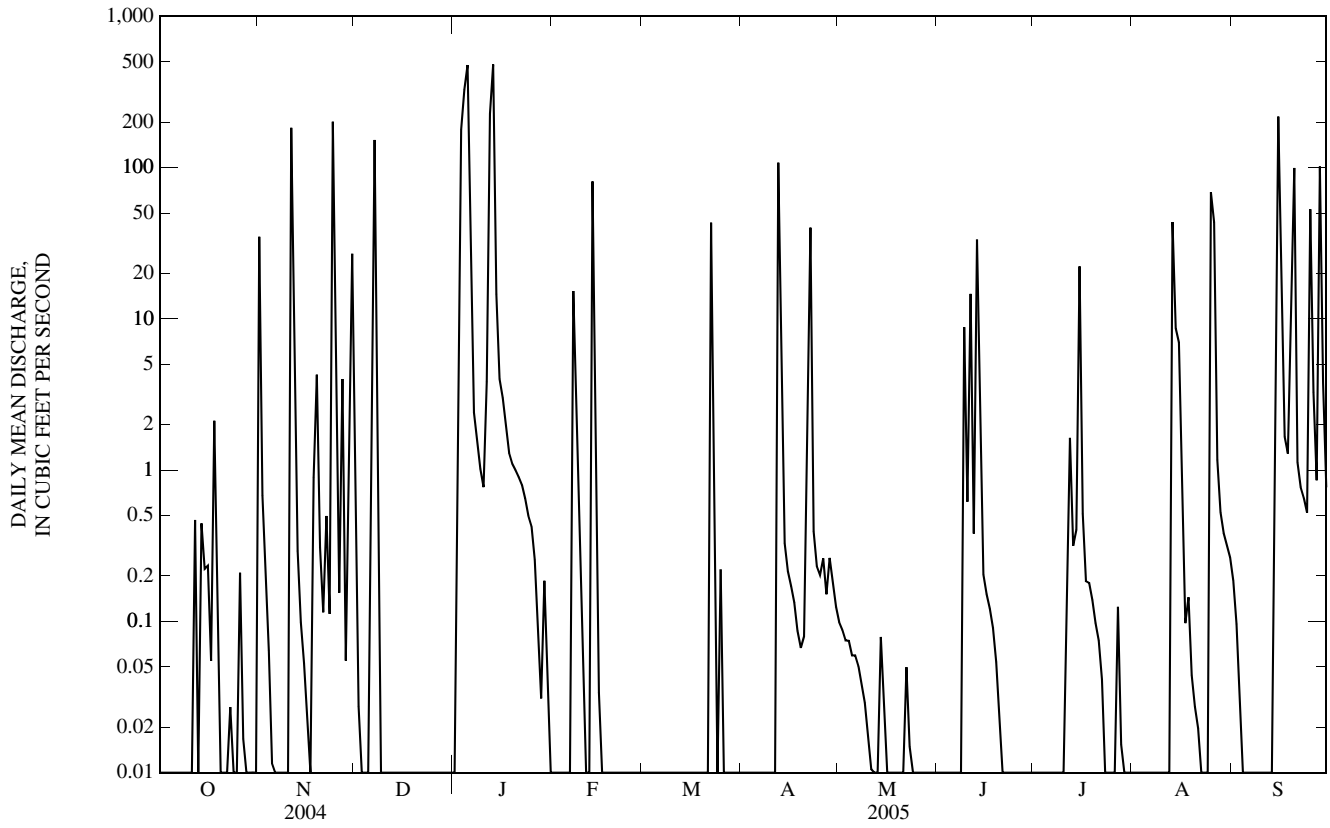
MEAN	2.13	8.07	2.40	11.6	8.62	6.02	3.78	13.0	10.8	6.86	2.41	7.25
MAX	8.26	22.4	9.44	56.8	19.0	21.5	6.23	41.4	31.5	35.9	5.69	32.6
(WY)	(2002)	(2004)	(2002)	(2005)	(2000)	(1998)	(1998)	(2004)	(2000)	(2004)	(2005)	(2003)
MIN	0.12	0.01	0.16	0.06	0.37	0.78	0.26	0.03	0.80	0.83	0.02	0.00
(WY)	(2005)	(2003)	(1999)	(2003)	(2003)	(2000)	(2000)	(2005)	(1999)	(1997)	(2003)	(2004)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1996 - 2005
ANNUAL MEAN	11.0	9.53	6.82
HIGHEST ANNUAL MEAN			11.3
LOWEST ANNUAL MEAN			3.38
HIGHEST DAILY MEAN	496	Jul 30	817
LOWEST DAILY MEAN	0.00	Many Days	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 14, Aug 9, 30, Dec 10	0.00
MAXIMUM PEAK FLOW	---	Unknown	Unknown
MAXIMUM PEAK STAGE	---	9.30	10.08
INSTANTANEOUS LOW FLOW	---	0.00	0.00
ANNUAL RUNOFF (INCHES)	15.63	13.50	9.68
10 PERCENT EXCEEDS	4.6	4.1	4.7
50 PERCENT EXCEEDS	0.14	0.01	0.18
90 PERCENT EXCEEDS	0.00	0.00	0.00

e Estimated

07019120 FISHPOT CREEK AT VALLEY PARK, MO—Continued



07019130 MERAMEC RIVER AT VALLEY PARK, MO

LOCATION.--Lat 38°32'48", long 90°29'06", SW¹/₄ SW¹/₄ SE¹/₄ sec. 17, T.4 N., R.5 E., St. Louis County, Hydrologic Unit 07140102, 0.5 mi north of I-44, 0.7 mile downstream of Highway 141 at river access on River Drive and at river mi²1.4.

DRAINAGE AREA.--3,850 mi².

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

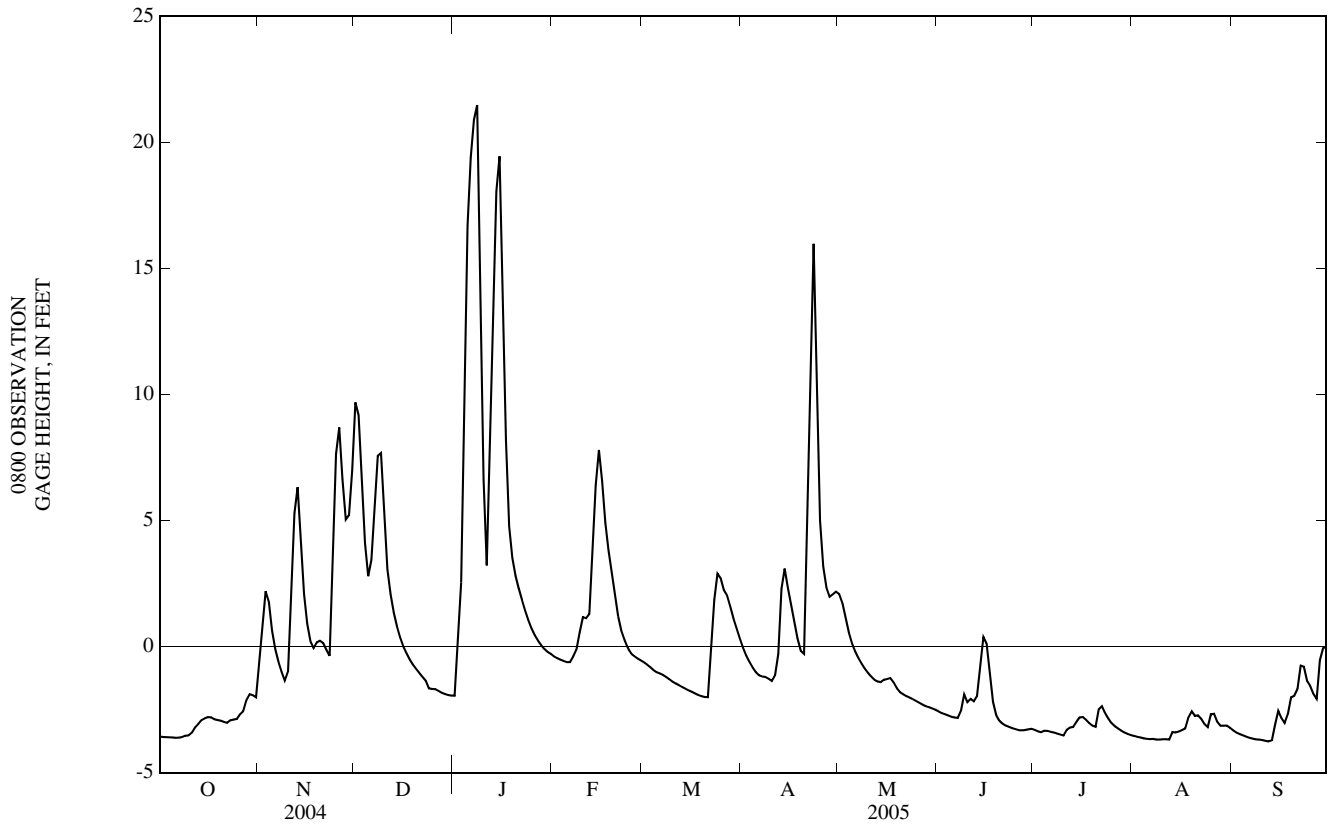
GAGE.--Water stage recorder. Datum of gage

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-3.56	-2.04	7.76	-1.95	-0.31	-0.56	0.19	2.19	-2.52	-3.25	-3.52	-3.26
2	-3.57	0.23	10.65	-1.95	-0.42	-0.64	-0.16	2.03	-2.59	-3.33	-3.55	-3.36
3	-3.59	1.29	8.44	1.70	-0.47	-0.74	-0.45	1.58	-2.66	-3.38	-3.59	-3.44
4	-3.59	2.65	5.39	2.96	-0.54	-0.85	-0.69	0.91	-2.70	-3.40	-3.61	-3.49
5	-3.60	1.35	3.47	12.91	-0.59	-0.96	-0.90	0.39	-2.75	-3.31	-3.65	-3.54
6	-3.61	0.28	2.46	18.60	-0.63	-1.04	-1.07	0.01	-2.80	-3.36	-3.67	-3.59
7	-3.62	-0.28	3.93	19.81	-0.61	-1.08	-1.18	-0.29	-2.82	-3.39	-3.67	-3.63
8	-3.61	-0.75	5.90	21.45	-0.27	-1.14	-1.19	-0.54	-2.83	-3.42	-3.66	-3.66
9	-3.57	-1.13	8.40	21.49	-0.03	-1.24	-1.21	-0.75	-2.40	-3.47	-3.70	-3.69
10	-3.52	-1.46	7.31	11.76	0.87	-1.32	-1.31	-0.94	-1.64	-3.50	-3.68	-3.68
11	-3.52	-0.75	3.90	4.09	1.32	-1.42	-1.39	-1.09	-2.48	-3.54	-3.67	-3.72
12	-3.36	3.27	2.65	2.78	1.03	-1.49	-1.01	-1.23	-1.87	-3.18	-3.68	-3.75
13	-3.13	6.30	1.78	9.47	1.42	-1.55	0.06	-1.35	-2.32	-3.23	-3.69	-3.77
14	-3.04	6.33	1.13	16.21	4.53	-1.62	3.41	-1.40	-1.78	-3.16	-3.24	-3.69
15	-2.86	3.26	0.64	18.98	7.34	-1.69	2.93	-1.41	-0.22	-2.90	-3.49	-2.80
16	-2.84	1.50	0.22	19.68	8.03	-1.76	2.03	-1.26	0.68	-2.77	-3.31	-2.42
17	-2.78	0.60	-0.10	12.62	5.84	-1.81	1.45	-1.30	-0.16	-2.80	-3.31	-3.04
18	-2.82	0.02	-0.35	5.98	4.46	-1.88	0.74	-1.22	-1.60	-2.95	-3.22	-3.03
19	-2.91	-0.09	-0.59	4.17	3.49	-1.94	0.13	-1.52	-2.48	-3.07	-2.60	-2.50
20	-2.91	0.29	-0.78	3.18	2.61	-1.98	-0.32	-1.71	-2.83	-3.17	-2.55	-1.78
21	-2.95	0.20	-0.94	2.62	1.73	-2.01	-0.28	-1.86	-3.00	-3.19	-2.85	-2.04
22	-3.01	0.11	-1.10	2.15	0.95	-2.00	8.23	-1.91	-3.09	-2.14	-2.67	-1.51
23	-3.03	-0.24	-1.26	1.71	0.48	0.71	14.27	-1.99	-3.16	-2.47	-2.97	-0.38
24	-2.87	-0.43	-1.40	1.30	0.17	2.42	16.83	-2.04	-3.20	-2.72	-3.13	-1.01
25	-2.90	5.52	-1.78	0.93	-0.14	3.13	7.24	-2.11	-3.25	-2.92	-3.22	-1.53
26	-2.85	8.70	-1.63	0.62	-0.32	2.50	3.88	-2.18	-3.29	-3.10	-2.42	-1.58
27	-2.60	8.68	-1.72	0.38	-0.41	2.11	2.82	-2.25	-3.32	-3.18	-2.79	-2.03
28	-2.54	5.64	-1.78	0.17	-0.49	1.99	2.10	-2.33	-3.33	-3.27	-3.08	-2.10
29	-1.92	4.74	-1.86	0.00	---	1.40	1.91	-2.38	-3.29	-3.36	-3.17	0.24
30	-1.88	5.46	-1.90	-0.14	---	0.98	2.15	-2.42	-3.28	-3.43	-3.12	-0.21
31	-1.95	---	-1.93	-0.24	---	0.60	---	-2.47	---	-3.48	-3.14	---
MEAN	-3.05	1.98	1.77	6.89	1.39	-0.48	1.97	-1.06	-2.43	-3.16	-3.28	-2.60
MAX	-1.88	8.70	10.65	21.49	8.03	3.13	16.83	2.19	0.68	-2.14	-2.42	0.24
MIN	-3.62	-2.04	-1.93	-1.95	-0.63	-2.01	-1.39	-2.47	-3.33	-3.54	-3.70	-3.77

07019130 MERAMEC RIVER AT VALLEY PARK, MO—Continued



07019150 GRAND GLAIZE CREEK NEAR MANCHESTER, MO

LOCATION.--Lat 38°35'34", long 90°29'35", in NE ¼ SE ¼ SE ¼ sec.31, T.45 N., R.5 E., St. Louis County, Hydrologic Unit 07140102, on left downstream abutment of Weidmann Road bridge, 0.15 mi south of Highway 100, 1.1 mi west of Interstate 270, and 6.9 mi upstream of confluence of Meramec River.

DRAINAGE AREA.--5.09 mi².

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

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

REMARKS.--Records fair except for estimated daily discharges and discharges above 900 ft³/s and below 0.50 ft³/s, 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	0.28	26	7.5	3.0	0.93	0.77	0.70	1.1	0.17	0.06	0.03	0.21
2	0.33	2.5	2.7	13	1.1	0.62	0.70	0.83	0.14	0.03	0.02	0.20
3	0.35	6.9	1.7	76	1.7	0.61	0.72	0.73	0.15	0.02	0.01	0.13
4	0.28	6.0	1.3	150	0.85	0.62	0.73	0.69	0.14	0.67	e0.27	0.11
5	0.27	1.8	7.0	159	0.75	0.55	0.72	0.58	0.12	0.35	e0.82	0.12
6	0.27	1.1	20	6.6	2.8	0.54	0.80	0.55	1.8	0.15	e0.30	0.15
7	0.28	0.78	55	1.7	17	3.1	0.87	0.53	0.35	0.08	e0.14	0.11
8	2.0	0.60	3.2	1.7	5.6	0.64	0.80	0.56	0.37	0.03	e0.13	0.17
9	0.83	0.58	2.4	1.1	8.6	0.51	0.76	0.55	8.7	0.02	e0.12	0.19
10	0.40	0.56	2.4	0.72	2.6	0.49	1.0	0.49	1.3	0.00	e2.2	0.15
11	1.3	80	3.2	3.9	1.8	0.47	4.8	0.43	14	9.3	e0.56	0.14
12	14	8.2	1.8	138	1.6	0.46	144	0.43	1.3	14	e0.54	0.12
13	1.7	2.8	1.4	146	51	0.41	17	0.50	15	1.4	e46	0.13
14	9.1	1.8	1.3	8.2	5.6	0.39	3.8	4.1	2.6	0.93	e7.1	7.0
15	3.3	1.3	1.2	3.6	2.9	0.38	2.5	0.62	0.46	14	e5.8	105
16	0.59	1.1	1.2	2.7	2.0	0.39	2.1	0.37	0.28	1.4	e2.2	6.7
17	0.53	1.0	1.1	1.9	1.6	0.40	1.9	0.34	0.22	0.53	e0.70	3.3
18	14	15	1.1	1.6	1.3	0.41	1.7	0.40	0.19	2.8	e3.0	2.1
19	1.7	14	0.93	3.7	1.3	0.40	1.7	0.30	0.20	0.93	e0.82	36
20	0.65	3.1	0.90	3.1	1.4	0.37	2.9	2.3	0.24	0.34	e0.30	24
21	0.54	1.8	0.97	2.5	1.1	0.40	9.8	0.39	0.21	0.21	e0.24	1.6
22	0.48	12	0.85	1.4	0.92	34	22	3.7	0.17	0.16	e0.52	1.1
23	5.0	2.9	0.64	0.96	0.94	7.4	4.3	0.64	0.19	0.10	e0.56	0.86
24	0.74	98	0.54	1.0	1.7	4.0	1.6	0.57	0.19	0.07	e0.31	0.74
25	0.41	10	0.65	1.0	0.94	6.6	1.7	0.26	0.13	1.5	e60	32
26	7.4	7.8	0.81	1.1	0.78	1.8	5.0	0.23	0.14	2.3	e13	3.7
27	8.0	13	0.74	0.98	0.78	1.3	1.4	0.43	0.16	2.6	e1.2	1.5
28	0.85	2.8	0.89	0.80	1.5	1.0	5.7	0.59	0.17	0.28	e0.81	54
29	0.67	13	1.0	4.3	---	0.88	5.8	0.24	0.13	0.10	1.1	4.3
30	2.0	27	0.99	2.1	---	0.77	2.2	0.44	0.09	0.05	1.2	1.6
31	1.4	---	1.0	1.3	---	0.69	---	0.24	---	0.03	0.38	---
MEAN	2.57	12.1	4.08	24.0	4.32	2.30	8.32	0.78	1.64	1.76	4.85	9.58
MAX	14	98	55	159	51	34	144	4.1	15	14	60	105
MIN	0.27	0.56	0.54	0.72	0.75	0.37	0.70	0.23	0.09	0.00	0.01	0.11
IN.	0.58	2.66	0.92	5.43	0.88	0.52	1.82	0.18	0.36	0.40	1.10	2.10

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

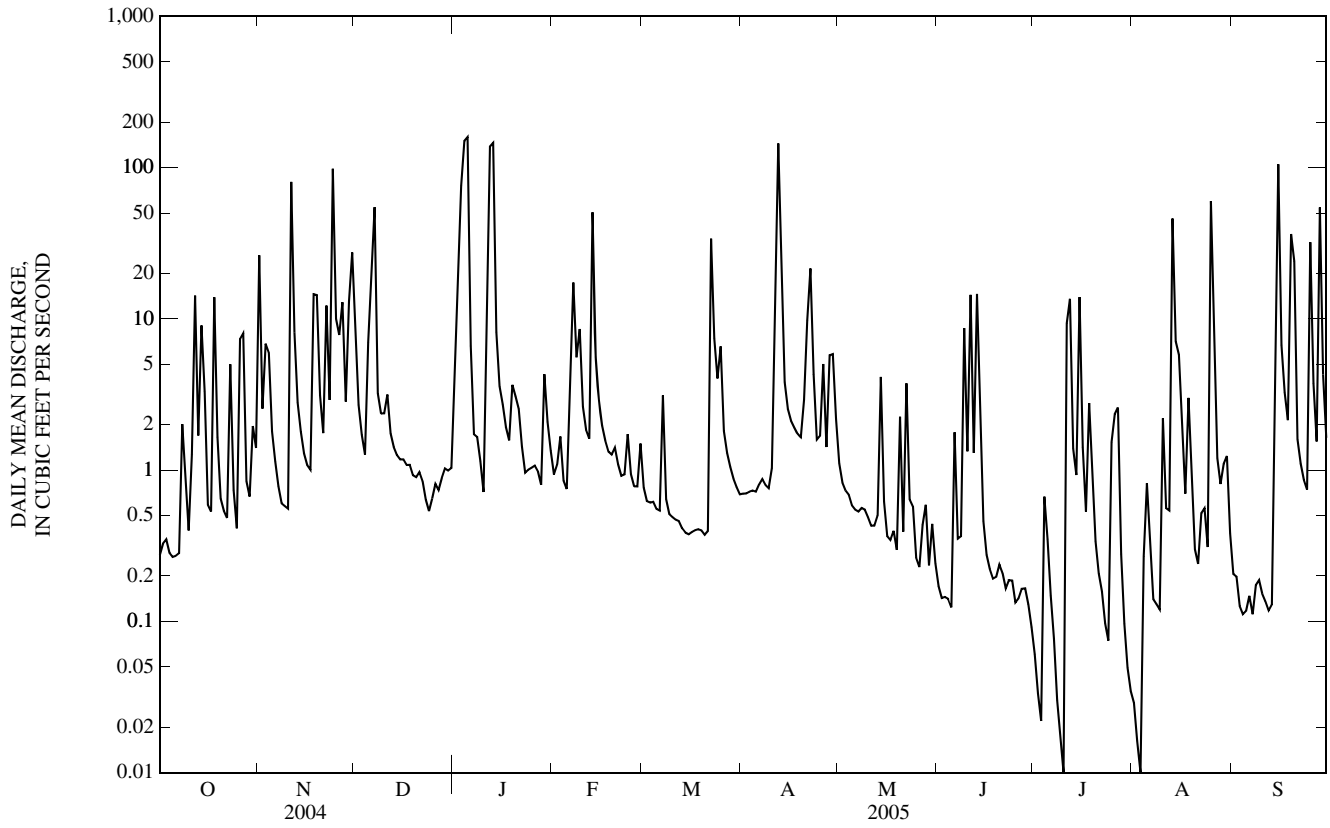
MEAN	3.32	5.07	2.66	7.69	6.13	7.02	5.77	10.3	9.07	4.44	2.96	3.81
MAX	6.39	12.1	7.17	24.0	12.6	19.9	9.61	22.3	27.7	15.2	5.92	14.0
(WY)	(2003)	(2005)	(2002)	(2005)	(1999)	(1998)	(1999)	(2004)	(2000)	(2004)	(1998)	(2003)
MIN	1.39	1.03	0.38	0.77	1.43	2.30	2.92	0.78	1.64	0.43	0.78	0.27
(WY)	(2000)	(2000)	(1999)	(2003)	(2002)	(2005)	(2000)	(2005)	(2005)	(1997)	(2001)	(2004)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1997 - 2005
ANNUAL MEAN	7.14	6.36	5.81
HIGHEST ANNUAL MEAN			7.66
LOWEST ANNUAL MEAN			3.41
HIGHEST DAILY MEAN	207	Jul 5	159
LOWEST DAILY MEAN	0.02	Sep 22	0.00
ANNUAL SEVEN-DAY MINIMUM	0.06	Sep 21	0.07
MAXIMUM PEAK FLOW	---	Unknown	Jan 12
MAXIMUM PEAK STAGE	---	7.86	Jan 12
INSTANTANEOUS LOW FLOW	---	0.00	Jul 2-4,8-11,Aug 1-3
ANNUAL RUNOFF (INCHES)	19.09	16.96	15.50
10 PERCENT EXCEEDS	12	12	11
50 PERCENT EXCEEDS	1.0	0.98	0.63
90 PERCENT EXCEEDS	0.15	0.16	0.13

e Estimated

07019150 GRAND GLAIZE CREEK NEAR MANCHESTER, MO—Continued



07019175 SUGAR CREEK AT KIRKWOOD, MO

LOCATION.--Lat 38°34'36", long 90°27'52", in SE ¼ SE ¼ SW ¼ sec.4, T.44 N., R.5 E., St. Louis County, Hydrologic Unit 07140102, gage attached to left upstream abutment of Barrett Station Road bridge, 2.3 mi north of Interstate 44, 1.1 mi west of Interstate 270, and 4.7 mi upstream from confluence of Meramec River.

DRAINAGE AREA.--5.08 mi².

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

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

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	0.13	24	7.4	2.0	1.2	0.72	0.89	1.00	0.14	0.07	0.10	0.39
2	0.16	2.5	4.1	10	1.2	0.63	0.74	0.83	0.16	0.07	0.12	0.36
3	0.13	2.2	3.1	113	1.4	0.63	0.68	0.66	0.15	0.09	0.10	0.33
4	0.12	2.1	2.6	193	1.1	0.65	0.67	0.57	0.13	0.45	0.10	0.32
5	0.11	1.1	3.9	298	1.0	0.57	0.64	0.52	0.13	0.27	0.12	0.29
6	0.12	0.89	14	14	1.3	0.54	0.63	0.47	1.4	0.09	0.25	0.28
7	0.13	0.76	81	5.7	6.8	1.2	0.56	0.40	0.31	0.07	0.15	0.28
8	0.46	0.73	4.7	4.8	3.4	0.60	0.53	0.38	0.38	0.06	0.13	0.27
9	0.44	0.69	3.3	4.0	5.0	0.51	0.52	0.36	38	0.10	0.10	0.28
10	0.22	0.74	2.7	3.5	2.0	0.49	0.52	0.39	2.5	0.12	0.08	0.32
11	0.43	68	3.2	7.0	1.6	0.47	1.6	0.32	19	5.6	0.27	0.32
12	12	4.1	2.3	44	1.5	0.46	173	0.33	1.4	6.6	0.22	0.26
13	0.84	1.7	2.4	322	40	0.43	15	0.23	4.3	0.85	35	0.26
14	4.8	1.3	2.3	8.2	5.1	0.44	2.7	1.4	1.5	1.4	7.0	1.9
15	1.6	1.0	2.2	4.6	3.0	0.44	1.8	0.26	0.39	3.7	5.5	100
16	0.48	0.82	2.1	3.8	2.1	0.43	1.3	0.17	0.27	0.29	1.8	2.0
17	0.29	0.67	1.9	3.3	1.8	0.44	1.1	0.19	0.19	0.18	0.65	0.61
18	6.2	5.1	1.8	2.7	1.5	0.45	0.92	0.15	0.16	1.4	2.6	0.43
19	0.51	6.4	1.7	2.7	1.4	0.44	0.82	0.14	0.12	0.81	0.69	9.9
20	0.20	1.6	1.6	2.5	1.4	0.44	0.96	1.6	0.10	0.41	0.37	59
21	0.17	1.1	1.6	2.2	1.2	0.69	7.6	0.23	0.09	0.27	0.28	0.83
22	0.23	4.6	1.5	2.0	1.0	20	26	1.2	0.10	0.19	1.7	0.57
23	3.8	1.4	1.5	2.0	0.96	7.5	3.2	0.28	0.09	0.18	0.78	0.49
24	0.31	115	1.5	2.0	1.1	2.4	1.5	0.16	0.07	0.20	0.48	0.55
25	0.18	8.1	1.5	2.0	0.90	3.8	1.2	0.15	0.06	0.30	42	44
26	6.1	4.4	1.4	1.8	0.77	1.6	3.3	0.14	0.07	0.29	18	2.7
27	1.8	7.1	1.4	1.4	0.73	1.3	1.3	0.17	0.07	1.3	1.3	0.94
28	0.52	3.4	1.3	1.3	0.94	1.2	3.4	0.23	0.05	0.36	0.67	78
29	0.55	9.2	1.2	2.9	---	1.1	3.5	0.16	0.05	0.26	0.48	2.6
30	2.9	20	1.2	1.9	---	0.90	1.8	0.18	0.05	0.16	0.46	1.0
31	1.7	---	1.4	1.4	---	0.91	---	0.18	---	0.13	0.46	---
MEAN	1.54	10.0	5.28	34.5	3.26	1.69	8.61	0.43	2.38	0.85	3.93	10.3
MAX	12	115	81	322	40	20	173	1.6	38	6.6	42	100
MIN	0.11	0.67	1.2	1.3	0.73	0.43	0.52	0.14	0.05	0.06	0.08	0.26
IN.	0.35	2.20	1.20	7.83	0.67	0.38	1.89	0.10	0.52	0.19	0.89	2.27

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

MEAN	2.22	4.76	2.67	8.78	5.34	5.98	4.95	10.1	9.36	5.13	2.23	3.74
MAX	5.06	14.9	5.91	34.5	16.2	19.4	8.61	25.1	19.2	20.3	3.93	17.5
(WY)	(2002)	(2004)	(2002)	(2005)	(1999)	(1998)	(2005)	(2004)	(2000)	(2004)	(2005)	(2003)
MIN	1.19	0.71	0.75	0.83	1.60	1.69	1.43	0.43	2.38	0.27	0.40	0.20
(WY)	(1998)	(2000)	(2001)	(2003)	(2002)	(2005)	(2000)	(2005)	(2005)	(2002)	(2001)	(1999)

SUMMARY STATISTICS

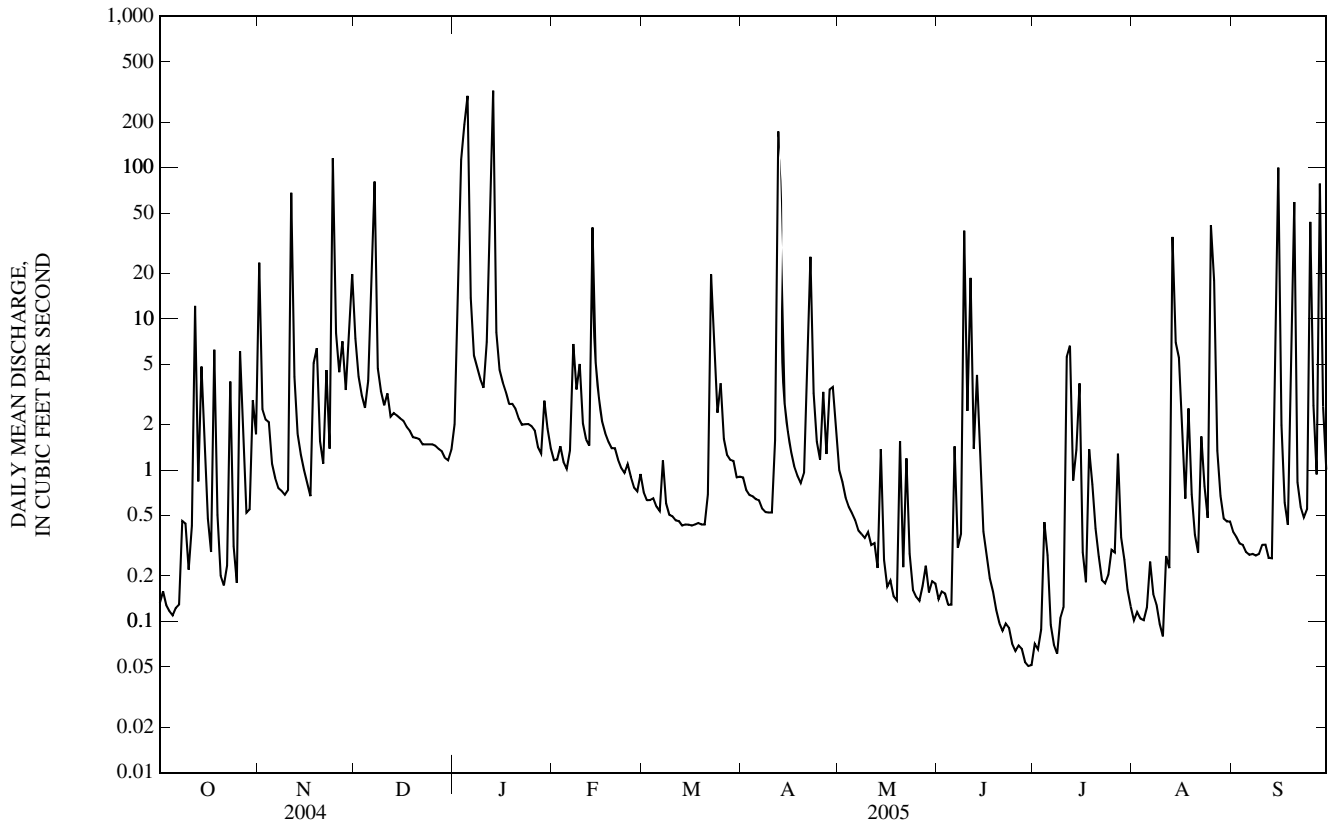
FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1997 - 2005

ANNUAL MEAN	8.00	6.92	5.51
HIGHEST ANNUAL MEAN			8.21
LOWEST ANNUAL MEAN			2.46
HIGHEST DAILY MEAN	272	Jul 30	322
LOWEST DAILY MEAN	0.11	Oct 5	0.05
ANNUAL SEVEN-DAY MINIMUM	0.13	Oct 1	0.06
MAXIMUM PEAK FLOW	---		Unknown
MAXIMUM PEAK STAGE	---		15.95
INSTANTANEOUS LOW FLOW	---		0.03
ANNUAL RUNOFF (INCHES)	21.43		18.50
10 PERCENT EXCEEDS	7.5		7.0
50 PERCENT EXCEEDS	1.4		0.94
90 PERCENT EXCEEDS	0.43		0.13

07019175 SUGAR CREEK AT KIRKWOOD, MO—Continued



07019185 GRAND GLAIZE CREEK NEAR VALLEY PARK, MO

LOCATION.--Lat 38°33'58", long 90°28'19", in NW ¼ NW ¼ SW ¼ sec.9, T.44 N., R.5 E., St. Louis County, Hydrologic Unit 07140102, on right upstream abutment of Quinette Road bridge, 1.7 mi north of Interstate 44, 1.8 mi west of Interstate 270, and 3.46 mi upstream of confluence of Meramec River.

DRAINAGE AREA.--21.8 mi².

WATER-DISCHARGE RECORDS

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

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

REMARKS.--No estimated daily discharges. Water-discharge records fair except discharges below 0.5 ft³/s and above 3,000 ft³/s, 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	1.1	126	41	12	8.0	6.1	6.3	6.3	1.1	0.72	0.51	1.6
2	1.4	14	17	39	8.0	5.4	5.8	5.5	1.1	0.77	0.55	1.3
3	1.2	12	12	472	11	6.3	5.6	4.5	1.3	0.72	0.64	1.1
4	1.1	16	9.7	601	8.1	5.7	5.5	3.8	1.0	1.9	1.5	1.2
5	1.1	5.3	20	1,260	7.7	4.8	5.3	3.7	0.97	2.4	4.7	1.0
6	0.78	3.8	46	95	10	4.8	5.2	3.6	6.8	0.89	2.4	1.3
7	0.80	3.1	338	31	57	12	5.4	3.4	2.6	0.69	1.1	1.5
8	4.8	2.8	24	27	29	5.6	5.5	3.1	1.2	0.60	0.93	1.2
9	4.7	2.9	17	21	30	4.8	5.4	3.0	135	0.58	0.74	0.98
10	2.1	3.5	14	17	12	5.2	5.3	2.9	16	0.79	9.9	1.1
11	2.9	336	18	41	8.2	5.2	15	2.7	130	25	4.4	1.1
12	66	29	11	104	7.2	5.5	569	2.5	12	52	3.1	1.3
13	9.8	9.9	8.9	1,360	226	5.0	152	2.4	42	8.9	162	1.1
14	32	6.2	8.2	55	31	4.9	21	13	15	8.1	55	17
15	19	4.8	7.8	28	15	4.6	13	2.6	2.6	59	41	349
16	2.8	4.3	7.7	20	11	4.8	9.6	1.6	1.4	8.6	18	21
17	2.6	4.1	7.3	15	9.0	4.7	7.7	1.7	1.1	3.1	5.3	7.1
18	51	33	7.3	13	8.3	5.1	7.2	1.8	0.92	9.3	17	4.1
19	7.1	48	6.5	17	7.9	4.9	7.5	2.0	0.82	7.0	6.7	15
20	2.3	9.7	5.9	16	8.6	4.3	9.9	8.9	0.75	2.6	2.4	233
21	2.0	6.1	6.4	14	7.3	5.0	34	2.5	0.78	1.6	1.6	8.3
22	2.9	31	5.8	11	6.4	131	123	12	0.78	1.1	3.1	5.0
23	20	8.9	5.0	9.8	6.2	40	21	2.9	0.76	0.93	3.8	3.6
24	3.3	454	4.4	10	10	15	8.9	1.9	0.77	0.82	1.8	3.4
25	2.2	48	4.6	12	6.8	29	6.9	1.9	0.82	1.8	184	191
26	33	26	5.1	13	5.6	11	20	1.6	0.73	4.4	99	23
27	27	45	4.7	9.6	5.5	8.0	8.1	4.0	0.67	7.8	12	8.1
28	5.0	16	5.2	7.9	8.4	7.0	20	2.5	0.64	1.7	4.5	250
29	6.1	48	5.8	18	---	6.3	24	1.5	0.54	0.98	2.7	23
30	14	115	5.7	13	---	5.9	14	1.5	0.51	0.66	4.7	8.3
31	6.5	---	5.6	9.5	---	5.9	---	1.5	---	0.58	2.2	---
MEAN	10.9	49.1	22.1	141	20.3	12.1	38.2	3.64	12.7	6.97	21.2	39.5
MAX	66	454	338	1,360	226	131	569	13	135	59	184	349
MIN	0.78	2.8	4.4	7.9	5.5	4.3	5.2	1.5	0.51	0.58	0.51	0.98
IN.	0.57	2.51	1.17	7.46	0.97	0.64	1.96	0.19	0.65	0.37	1.12	2.02

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

MEAN	12.2	21.8	13.4	38.2	25.3	29.7	24.0	37.9	31.4	20.2	11.9	18.5
MAX	25.5	63.4	33.5	141	64.3	78.5	38.2	103	67.2	71.3	21.2	70.4
(WY)	(2002)	(2004)	(2002)	(2005)	(1999)	(1998)	(2005)	(2004)	(1998)	(2004)	(2005)	(2003)
MIN	5.23	3.68	4.52	4.35	10.8	11.1	5.64	3.64	8.40	2.80	2.01	2.10
(WY)	(2000)	(2000)	(2001)	(2003)	(2002)	(2001)	(2000)	(2005)	(1999)	(2002)	(2001)	(2004)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

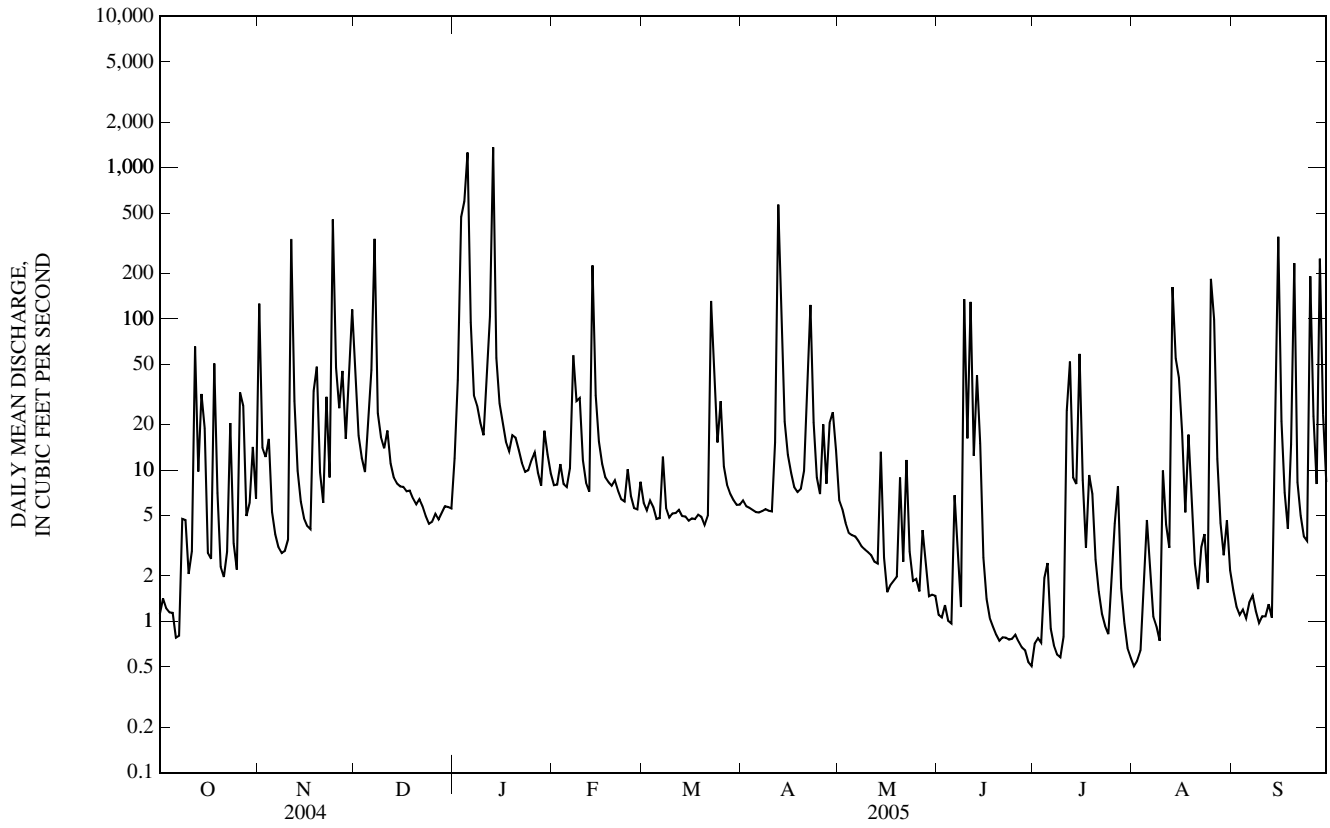
FOR 2005 WATER YEAR

WATER YEARS 1997 - 2005

ANNUAL MEAN	34.1	31.5	24.4
HIGHEST ANNUAL MEAN			35.2
LOWEST ANNUAL MEAN			11.4
HIGHEST DAILY MEAN	905	Jan 4	1,430
LOWEST DAILY MEAN	0.78	Oct 6	0.21
ANNUAL SEVEN-DAY MINIMUM	1.1	Oct 1	0.26
MAXIMUM PEAK FLOW	---		Unknown
MAXIMUM PEAK STAGE	---		13.03
INSTANTANEOUS LOW FLOW	---		0.39
ANNUAL RUNOFF (INCHES)	21.29	19.64	15.23
10 PERCENT EXCEEDS	47	45	41
50 PERCENT EXCEEDS	6.8	6.1	4.7
90 PERCENT EXCEEDS	1.8	1.0	1.1

^a From crest-stage gage.

07019185 GRAND GLAIZE CREEK NEAR VALLEY PARK, MO—Continued



07019185 GRAND GLAIZE CREEK NEAR VALLEY PARK, 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 04...	1445	Environmental	1.1	8.1	6.2	62	7.7	995	15.6	340	93.4	25.6	
12...	1715	Environmental	137	3.7	8.2	83	7.7	465	15.2	130	39.1	8.04	
MAR 22...	1127	Environmental	188	7.1	12.0	103	7.7	1,040	7.9	370	98.9	29.3	
APR 20...	1000	Environmental	7.9	12	8.1	88	7.6	1,090	18.7	410	116	29.4	
JUN 22...	0840	Blank	--	--	--	--	--	--	--	--	<.02	<.008	
22...	0850	Environmental	.76	9.5	2.5	31	7.6	943	23.9	330	89.4	25.4	
AUG 10...	0935	Environmental	.85	13	3.0	38	7.3	781	26.7	270	74.1	20.2	
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 04...	210	214	261	<1	<10	.41	<.04	<.06	<.008	.05	.09	20	2k
12...	98	99	121	<1	92	.86	<.04	.66	.012	.12	.28	40	5,800
MAR 22...	193	194	236	<1	122	.86	.05	.20	E.007n	E.02n	.17	20	1,200k
APR 20...	249	253	308	<1	<10	.37	.05	.21	.008	E.01n	.06	<10	150
JUN 22...	--	--	--	--	<10	<.10	.08d	<.06	<.008	<.04d	<.04	<10	--
22...	205	207	253	<1	13	.58	<.04	.10	E.005n	<.02	.10	10	420
AUG 10...	136	135	165	<1	<10	.48	.04	.21	.010	E.02n	.08	20	92
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 04...	40	E1n	1.5	<.06	.07	<.8	2.6	<6	<.08	71.2	<.01	3.10	.5
12...	14,000k	3	1.4	<.06	.13	1.7	2.3	24	<.08	45.4	E.01n	2.34	.4
MAR 22...	1,200k	E1n	.9	<.06	.13	.8	2.4	20	E.07n	287	E.01n	5.75	.8
APR 20...	260k	2	1.1	<.06	.04	<.8	1.6	12	E.04n	189	<.01	2.77	.9
JUN 22...	--	<2	<.2	<.06	<.04	<.8	<.4	<6	<.08	<.6	<.01	<.06	<.4
22...	490	3	2.1	<.06	.05	<.8	1.3	E4n	E.05n	531	<.01	6.08	.6
AUG 10...	300k	2	2.3	<.06	.09	<.8	1.9	12	.15	250	<.01	4.78	.9

07019185 GRAND GLAIZE CREEK NEAR VALLEY PARK, 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		
04...	<.2	2.1
12...	<.2	2.4
MAR		
22...	<.2	3.9
APR		
20...	<.2	2.5
JUN		
22...	<.2	E.3n
22...	<.2	1.0
AUG		
10...	<.2	2.5

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
d -- Diluted sample: method high range exceeded

07019195 YARNELL CREEK AT FENTON, MO

LOCATION.--Lat 38°31'37", long 90°26'50", St. Louis County, Hydrologic Unit 07140102, on right downstream abutment of Fabick Drive bridge, 0.9 mi north of Highway 30, 1.05 mi south of Interstate 44, and 1.09 mi upstream from confluence of Meramec River.

DRAINAGE AREA.--2.71 mi².

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

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

REMARKS.--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	0.16	26	4.1	e1.3	0.78	0.69	0.65	0.89	0.55	0.33	0.25	0.43
2	0.31	2.4	1.6	e2.7	1.2	0.60	0.69	0.81	0.50	0.33	0.27	0.40
3	0.40	2.7	1.1	e50	2.1	0.51	0.67	0.75	0.48	0.33	0.23	0.40
4	0.44	1.8	0.89	e20	1.1	0.49	0.65	0.70	0.46	4.1	0.23	0.40
5	0.41	0.63	2.6	e165	e0.95	0.51	0.61	0.65	0.43	0.42	0.23	0.33
6	0.40	0.51	12	e10	e1.6	0.48	0.60	0.64	0.66	0.26	0.23	0.33
7	0.39	0.45	40	e5.6	6.8	1.2	0.60	0.59	0.64	0.25	0.23	0.33
8	1.5	0.43	2.8	e3.4	2.5	0.67	0.59	0.59	1.3	0.28	0.21	0.33
9	1.1	0.43	1.6	e2.5	5.5	0.58	0.56	0.54	79	0.28	0.21	0.35
10	0.65	0.43	1.1	2.1	e1.8	0.55	0.52	0.48	3.8	0.27	0.21	0.33
11	2.0	47	e0.95	4.3	e1.2	0.65	2.6	0.53	17	6.5	0.21	0.35
12	17	3.2	e0.89	21	e1.0	0.63	29	0.52	1.9	6.6	0.21	0.38
13	1.4	1.4	e0.81	175	28	0.56	6.7	0.47	4.7	0.65	26	0.41
14	8.3	0.57	e0.79	e11	3.9	0.52	1.7	2.5	1.4	0.47	8.9	2.9
15	2.6	0.48	e0.77	e4.4	2.3	0.53	1.1	0.77	0.59	0.74	6.2	73
16	0.80	0.43	e0.70	e2.5	1.7	0.51	0.91	0.63	0.56	0.51	2.5	4.0
17	1.3	0.41	e0.67	1.8	1.4	0.50	0.82	0.62	0.48	0.44	0.71	0.68
18	12	5.9	e0.63	1.5	1.3	0.48	0.81	0.62	0.45	1.6	4.2	0.54
19	0.83	4.8	e0.62	e1.2	1.3	0.45	0.81	0.65	0.40	0.53	0.69	9.3
20	0.49	0.88	e0.60	e1.1	1.2	0.43	1.9	1.0	0.40	0.28	0.50	19
21	0.43	0.62	e0.58	e1.0	1.1	0.47	12	0.77	0.39	0.28	0.50	0.78
22	0.43	3.3	e0.56	e0.95	1.0	21	36	2.4	0.36	0.28	0.53	0.70
23	6.0	0.77	e0.55	e0.98	0.98	5.3	2.7	0.70	0.36	0.26	0.46	0.71
24	0.57	75	e0.54	e0.97	1.2	1.9	1.4	0.63	0.36	0.25	0.69	0.67
25	0.42	6.2	e0.52	e0.96	0.91	4.3	1.3	0.62	0.36	0.23	16	22
26	11	2.2	e0.52	e0.90	0.75	1.3	3.7	0.73	0.36	0.23	13	2.2
27	2.1	3.8	e0.53	e0.85	0.66	0.99	1.2	0.63	0.36	0.84	1.4	0.89
28	0.59	1.3	e0.52	e0.84	0.88	0.83	4.0	0.58	0.33	0.50	0.64	27
29	0.62	7.2	e0.50	e2.4	---	0.77	2.7	0.61	0.31	0.30	0.47	2.2
30	2.4	15	e0.49	1.2	---	0.70	1.5	0.55	0.33	0.28	e0.45	0.70
31	0.67	---	e0.48	0.92	---	0.65	---	0.56	---	0.25	e0.44	---
MEAN	2.51	7.21	2.61	16.1	2.68	1.60	3.97	0.77	3.97	0.93	2.81	5.73
MAX	17	75	40	175	28	21	36	2.5	79	6.6	26	73
MIN	0.16	0.41	0.48	0.84	0.66	0.43	0.52	0.47	0.31	0.23	0.21	0.33
IN.	1.07	2.97	1.11	6.84	1.03	0.68	1.63	0.33	1.64	0.40	1.19	2.36

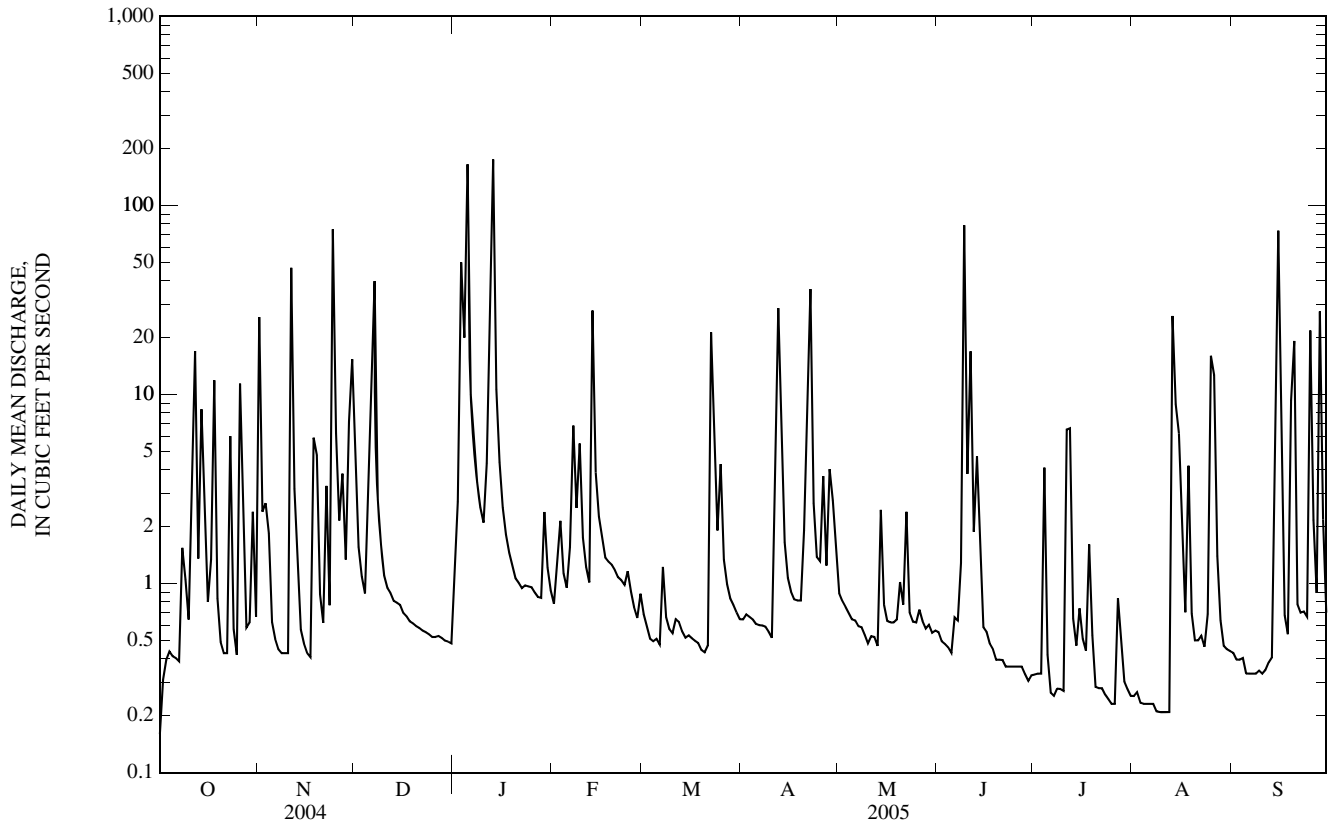
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

MEAN	1.96	2.95	1.66	4.63	3.44	3.69	3.55	5.10	5.46	3.25	2.06	2.24
MAX	2.96	7.21	4.32	16.1	9.37	11.8	6.08	11.2	11.7	9.35	3.76	6.87
(WY)	(2002)	(2005)	(2002)	(2005)	(1999)	(1998)	(1998)	(2004)	(1998)	(2004)	(1997)	(2003)
MIN	1.25	0.40	0.44	0.38	1.03	1.18	0.81	0.77	2.17	0.48	0.43	0.26
(WY)	(2004)	(2000)	(1999)	(2003)	(2003)	(2000)	(2000)	(2005)	(2001)	(2002)	(2003)	(2004)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL MEAN	4.42		4.24		3.34	
HIGHEST ANNUAL MEAN					4.64	
LOWEST ANNUAL MEAN					1.88	
HIGHEST DAILY MEAN	190	Jul 30	175	Jan 13	190	Jul 30, 2004
LOWEST DAILY MEAN	0.16	Oct 1	0.16	Oct 1	0.13	Oct 4, 2001
ANNUAL SEVEN-DAY MINIMUM	0.19	Sep 25	0.22	Aug 6	0.15	Sep 28, 2001
MAXIMUM PEAK FLOW	---		Unknown	Jan 13	Unknown	Jul 30, 2004
MAXIMUM PEAK STAGE	---		7.39	Jan 13	8.52	Jul 30, 2004
INSTANTANEOUS LOW FLOW	---		0.14	Oct 1	0.09	Oct 24, 2002
ANNUAL RUNOFF (INCHES)	22.19		21.25		16.74	
10 PERCENT EXCEEDS	8.4		6.6		5.7	
50 PERCENT EXCEEDS	0.89		0.70		0.58	
90 PERCENT EXCEEDS	0.41		0.33		0.23	

e Estimated

07019195 YARNELL CREEK AT FENTON, MO—Continued



07019220 FENTON CREEK NEAR FENTON, MO

LOCATION.--Lat 38°30'40", long 90°26'39", St. Louis County, Hydrologic Unit 07140102, on left bank 100 ft downstream of Highway 141 bridge, 0.66 mi north of county line, 0.24 mi south of Highway 30, and 1.4 mi upstream from confluence of Meramec River.

DRAINAGE AREA.--4.29 mi².

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 416.09 ft above National Geodetic Vertical Datum of 1929. Prior to May 1, 2001, gage was located on left downstream abutment of Highway 141 bridge, 100 ft upstream at same datum.

REMARKS.--Records fair except for estimated daily discharges and discharges above 650 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	0.34	41	8.6	1.4	1.5	0.83	0.91	1.6	0.58	0.36	0.37	0.61
2	0.30	3.2	3.8	36	1.6	0.79	0.89	1.4	0.56	0.35	0.37	0.61
3	0.35	2.9	2.6	137	2.2	0.77	0.87	1.4	0.56	0.34	0.36	0.61
4	0.33	2.4	2.1	150	1.5	0.79	0.87	1.4	0.55	18	0.35	0.61
5	0.32	1.1	5.3	243	1.2	0.74	0.89	1.3	0.67	0.94	0.35	0.62
6	0.32	0.89	29	24	1.8	0.75	0.83	1.2	0.73	0.59	0.38	0.60
7	0.37	0.78	62	8.4	11	1.7	0.83	1.1	0.65	0.54	0.39	0.62
8	1.0	0.71	5.7	6.6	4.6	0.84	0.79	1.1	1.6	0.51	0.41	0.61
9	0.36	0.71	3.9	5.4	8.3	0.79	0.77	1.1	188	0.50	0.41	0.60
10	0.34	0.72	3.2	4.3	2.7	0.82	0.71	1.0	11	0.49	0.61	0.58
11	1.2	80	3.8	8.6	2.0	0.73	2.4	1.2	32	8.7	0.39	0.56
12	19	4.4	2.4	60	1.8	0.72	e30	0.89	2.5	10	0.41	0.53
13	1.1	1.4	2.0	207	48	0.68	8.0	0.88	11	1.1	26	0.55
14	7.6	0.81	1.8	13	4.8	0.68	1.6	3.0	2.2	0.76	15	3.0
15	2.0	0.72	1.7	6.7	2.5	0.69	1.1	0.76	1.1	0.67	6.8	133
16	0.61	0.78	1.7	5.1	1.7	0.69	0.94	0.76	0.90	0.63	3.6	7.0
17	0.53	0.71	1.6	4.2	1.4	0.71	0.95	0.73	0.81	0.59	0.78	0.98
18	14	9.8	1.5	3.7	1.2	0.71	1.0	0.72	0.75	5.2	8.4	0.68
19	1.0	6.9	1.3	4.4	1.2	0.71	1.0	0.63	0.69	0.93	0.99	14
20	0.68	1.4	1.3	4.2	1.2	0.70	e10	0.64	0.64	0.59	0.58	27
21	0.63	0.92	1.3	3.6	1.1	0.73	e20	0.52	0.63	0.54	0.52	1.1
22	0.62	5.1	1.2	3.0	0.98	41	e128	4.7	0.60	0.42	0.50	0.88
23	8.8	1.4	0.94	2.4	0.99	12	5.3	1.4	0.56	0.41	0.50	0.81
24	0.81	154	0.85	2.2	1.1	3.7	2.7	1.0	0.51	0.41	0.52	1.0
25	0.73	13	0.84	2.2	1.0	11	2.3	1.0	0.49	0.41	55	49
26	19	6.1	0.83	2.1	0.88	2.2	7.2	1.1	0.46	0.46	15	4.1
27	2.4	9.7	0.80	1.9	0.86	1.6	1.8	0.67	0.43	0.79	1.5	1.3
28	0.79	4.1	0.81	1.9	1.1	1.3	6.8	0.71	0.41	0.40	0.78	33
29	0.73	15	0.82	4.0	---	1.1	4.7	0.66	0.40	0.38	0.69	3.6
30	1.1	32	0.81	2.6	---	1.0	3.0	0.62	0.38	0.37	0.65	1.3
31	0.88	---	0.76	2.0	---	0.91	---	0.53	---	0.39	0.61	---
MEAN	2.85	13.4	5.01	31.0	3.94	2.98	8.24	1.15	8.75	1.83	4.62	9.65
MAX	19	154	62	243	48	41	128	4.7	188	18	55	133
MIN	0.30	0.71	0.76	1.4	0.86	0.68	0.71	0.52	0.38	0.34	0.35	0.53
IN.	0.77	3.49	1.35	8.33	0.96	0.80	2.14	0.31	2.28	0.49	1.24	2.51

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

MEAN	2.36	4.79	2.91	8.20	5.15	6.37	6.19	8.20	7.38	4.03	2.68	2.69
MAX	3.45	13.4	7.10	31.0	12.6	18.1	10.4	20.5	14.3	12.2	4.80	9.65
(WY)	(2003)	(2005)	(2002)	(2005)	(1999)	(1998)	(2002)	(2004)	(1998)	(2004)	(2000)	(2005)
MIN	1.08	0.83	0.37	0.76	1.76	1.69	1.23	1.15	2.83	0.64	0.45	0.26
(WY)	(1998)	(2003)	(1999)	(2003)	(2002)	(2000)	(2000)	(2005)	(2001)	(2002)	(2003)	(1999)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

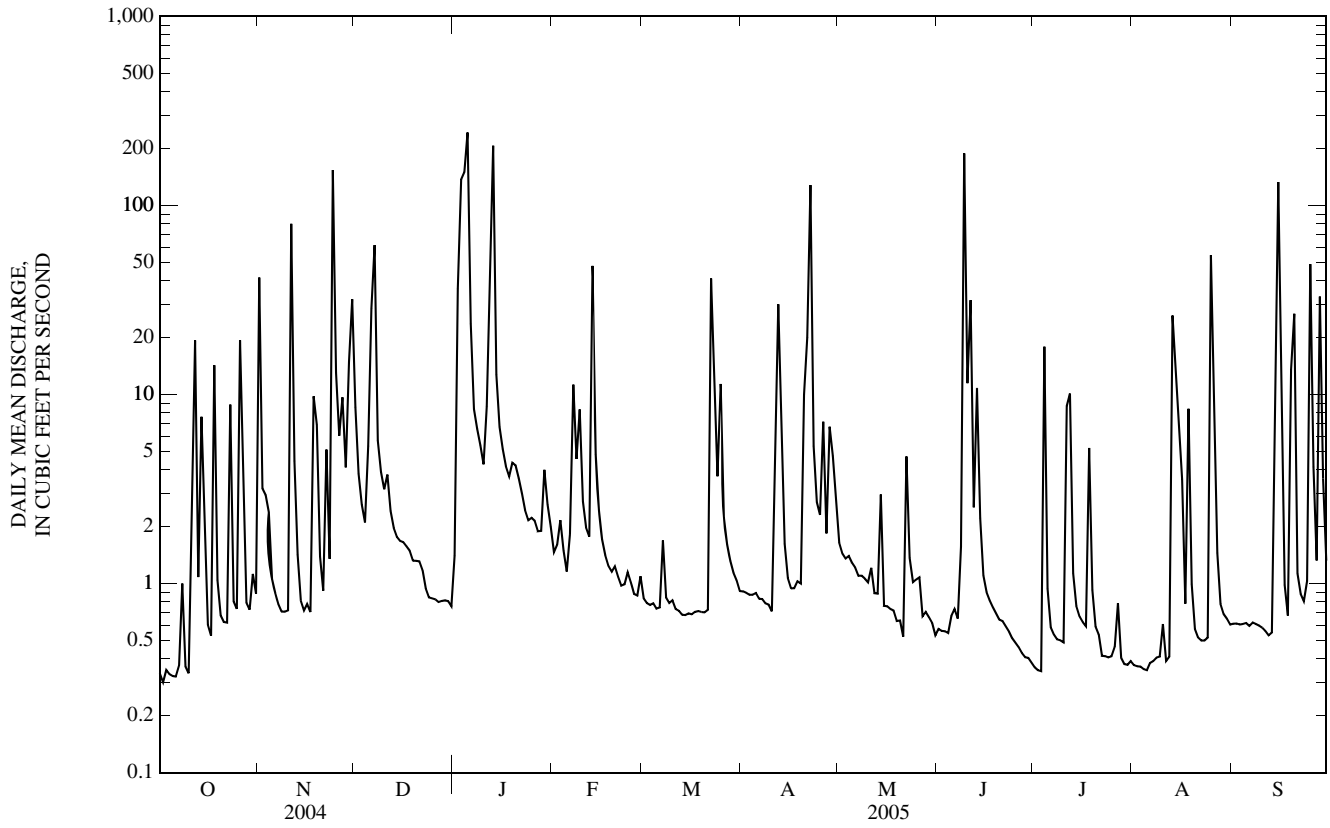
FOR 2005 WATER YEAR

WATER YEARS 1997 - 2005

ANNUAL MEAN	7.50	7.79	5.11
HIGHEST ANNUAL MEAN			7.79
LOWEST ANNUAL MEAN			2.51
HIGHEST DAILY MEAN	263	243	263
LOWEST DAILY MEAN	0.27	0.30	0.13
ANNUAL SEVEN-DAY MINIMUM	0.31	0.33	0.17
MAXIMUM PEAK FLOW	---	Unknown	Unknown
MAXIMUM PEAK STAGE	---	6.86	9.71
INSTANTANEOUS LOW FLOW	---	0.21	0.07
ANNUAL RUNOFF (INCHES)	23.80	24.66	16.19
10 PERCENT EXCEEDS	12	12	8.9
50 PERCENT EXCEEDS	1.3	1.0	0.83
90 PERCENT EXCEEDS	0.49	0.46	0.32

e Estimated

07019220 FENTON CREEK NEAR FENTON, MO—Continued



07019280 MERAMEC RIVER AT PAULINA HILLS, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 38°27'46", long 90°24'53", Jefferson County, Hydrologic Unit 07140102, at bridge on State Highway 21 at Paulina Hills, 0.3 mi downstream from Saline Creek, and 10 mi upstream from mouth of Meramec River.

DRAINAGE AREA.--3,950 mi², approximately.

PERIOD OF RECORD.--August 1963 to July 1975, October 1981 to current year. August 1963 to September 1970 published as Meramec River at Paulina Hills, Mo. (07019045).

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...	1515	Environmental	990	7.6	81	8.2	410	17.1	--	--	--	--
NOV 02...	1605	Environmental	3,630	5.7	59	7.6	429	16.5	210	45.0	23.2	2.68
DEC 13...	1310	Environmental	4,580	11.9	98	7.6	279	7.0	--	--	--	--
JAN 04...	0845	Environmental	6,410	10.7	83	7.2	279	4.6	130	29.1	13.6	2.74
FEB 02...	0835	Environmental	2,990	15.8	126	7.3	395	5.4	--	--	--	--
FEB 02...	0836	Replicate	--	16.1	128	7.3	394	5.2	--	--	--	--
MAR 10...	1440	Environmental	2,200	8.6	79	8.0	387	9.9	--	--	--	--
APR 05...	1045	Environmental	2,430	9.1	94	8.2	365	15.7	--	--	--	--
MAY 03...	1415	Environmental	4,930	6.8	67	7.6	288	14.8	160	34.1	18.2	1.64
JUN 07...	1400	Environmental	1,100	7.8	99	8.2	425	26.4	--	--	--	--
JUL 27...	0840	Environmental	909	4.8	64	8.2	425	29.5	210	43.5	24.8	2.23
AUG 01...	1323	Environmental	597	4.8	66	8.3	404	30.6	--	--	--	--
AUG 17...	1020	Environmental	755	6.0	76	7.5	433	26.4	--	--	--	--
SEP 08...	0845	Environmental	586	6.2	79	8.2	327	26.6	--	--	--	--

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)
OCT 13...	--	--	--	--	--	--	--	--	--	30	.53	.09	.48
NOV 02...	11.4	170	173	211	<1	15.9	.1	20.9	232	36	.40	.04	.23
DEC 13...	--	--	--	--	--	--	--	--	--	20	.37	.04	.38
JAN 04...	7.20	115	117	143	<1	9.55	.1	15.1	169	122d	.75	E.04n	.44
FEB 02...	--	--	--	--	--	--	--	--	--	<10	.31	.17	.68
FEB 02...	--	--	--	--	--	--	--	--	--	10	.32	.17	.69
MAR 10...	--	--	--	--	--	--	--	--	--	<10	.46	.15	.08
APR 05...	--	--	--	--	--	--	--	--	--	11	.42	.11	.08
MAY 03...	5.60	146	150	178	<1	6.63	.1	14.3	190	61	.41	E.04n	.29
JUN 07...	--	--	--	--	--	--	--	--	--	29	.57	<.04	.20
JUL 27...	11.4	161	162	197	<1	12.1	.1	25.5	238	33	.51	E.03n	.30
AUG 01...	--	--	--	--	--	--	--	--	--	19	.53	<.04	.22
AUG 17...	--	--	--	--	--	--	--	--	--	40	.62	.08	.51
SEP 08...	--	--	--	--	--	--	--	--	--	30	.40	<.04	.41

07019280 MERAMEC RIVER AT PAULINA HILLS, 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)
OCT 13...	.050	.09	.11	.14	540	690k	--	--	--	--	--	--	--
NOV 02...	.017	E.01n	.06	.10	160	530	E2n	446	.8	E.02n	.08	1.1	E3n
DEC 13...	E.006n	.02	E.03n	.07	330	440	--	--	--	--	--	--	--
JAN 04...	.009	<.02	.07	.20	4,700	5,900	8	2,110d	.6	<.04	.12	1.4	28
FEB 02...	E.006n	.03	.04	.05	440k	600k	--	--	--	--	--	--	--
FEB 02...	E.006n	.03	.05	.04	460k	640k	--	--	--	--	--	--	--
MAR 10...	E.004n	<.02	<.04	.05	27	76k	--	--	--	--	--	--	--
APR 05...	.017	E.01n	E.02n	E.04n	7k	3k	--	--	--	--	--	--	--
MAY 03...	E.006n	<.02	E.03n	.09	78	88	2	690	.4	<.04	.12	.9	8
JUN 07...	.015	<.02	E.03n	.11	640	1,000	--	--	--	--	--	--	--
JUL 27...	.018	.02	.06	.12	5k	8k	3	365	1.3	<.04	.07	1.0	<6
AUG 01...	.019	.05	.09	.11	20	21	--	--	--	--	--	--	--
AUG 17...	.031	.09	.11	.17	200	220k	--	--	--	--	--	--	--
SEP 08...	.019	.08	.07	.12	23	18k	--	--	--	--	--	--	--

Date	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover-able, µg/L (01051)	Manganese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover-able, µg/L (71900)	Selenium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover-able, µg/L (01092)
OCT 13...	--	--	--	--	--	--	--
NOV 02...	.27	12.1	7.0	<.01	<.4	.9	6
DEC 13...	--	--	--	--	--	--	--
JAN 04...	.19	15.2	6.9	.01	E.3n	1.4	17
FEB 02...	--	--	--	--	--	--	--
FEB 02...	--	--	--	--	--	--	--
MAR 10...	--	--	--	--	--	--	--
APR 05...	--	--	--	--	--	--	--
MAY 03...	.28	24.2	37.8	<.01	<.4	1.1	14
JUN 07...	--	--	--	--	--	--	--
JUL 27...	.47	12.8	5.6	E.01n	E.4n	1.3	7
AUG 01...	--	--	--	--	--	--	--
AUG 17...	--	--	--	--	--	--	--
SEP 08...	--	--	--	--	--	--	--

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

07019317 MATTESE CREEK NEAR MATTESE, MO

LOCATION.--Lat 38°29'00", long 90°20'28", in SW ¼ NW ¼ NW ¼ sec.10, T.43 N., R.6 E., St. Louis County, Hydrologic Unit 07140102, on right downstream pier of Ringer Road bridge, 0.86 mi east of Interstate 55, 1.4 mi south of Interstate 255, and 3.4 mi above confluence to Meramec River.

DRAINAGE AREA.--7.88 mi².

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

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 413.57 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--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	171	16	8.6	1.3	2.0	1.7	2.5	0.02	0.00	0.03	0.33
2	0.00	12	6.5	95	1.7	1.2	1.5	2.0	0.00	0.00	0.00	0.27
3	0.00	11	4.7	210	4.3	1.0	1.4	1.8	0.00	0.00	0.00	0.18
4	0.00	7.1	3.8	157	1.8	1.0	1.3	1.6	0.00	0.00	0.01	0.05
5	0.00	2.6	16	388	1.4	0.93	1.2	1.5	0.00	e0.26	0.00	0.01
6	0.00	1.6	103	36	3.2	0.78	1.1	1.4	0.00	e0.11	0.00	0.00
7	0.00	0.94	121	11	19	5.2	1.0	1.3	0.00	e0.00	0.00	0.01
8	5.1	0.63	12	10	7.2	1.3	0.96	1.0	6.1	e0.00	0.00	0.00
9	0.26	0.40	8.2	8.6	14	1.1	0.87	0.99	23	e0.00	0.00	0.00
10	0.01	0.37	6.5	7.0	3.7	0.90	0.74	0.89	4.2	e0.00	2.1	0.00
11	0.55	143	7.7	13	2.7	0.89	2.3	0.85	25	e53	0.64	0.00
12	52	11	5.4	45	2.4	0.89	71	0.83	2.7	e80	0.02	0.00
13	1.9	4.7	4.6	287	84	0.83	13	0.66	7.6	1.1	47	0.00
14	12	2.5	3.9	e12	8.7	0.78	3.4	6.4	2.5	0.67	32	e6.4
15	3.2	2.3	3.6	e6.2	4.9	0.78	2.5	0.90	0.58	11	4.8	e175
16	0.56	1.3	3.4	e4.7	3.6	0.78	2.1	0.54	0.35	2.6	9.8	e4.9
17	0.18	0.91	2.9	e3.8	2.6	0.71	1.8	0.47	0.19	0.49	0.95	e1.3
18	201	19	2.8	e3.2	2.3	0.69	1.7	0.39	0.09	17	22	e1.1
19	8.9	22	2.8	3.3	2.1	0.69	1.5	0.37	0.03	2.1	1.7	e20
20	1.9	4.1	2.7	2.9	2.1	0.69	8.7	3.1	0.00	0.56	0.69	e70
21	0.66	2.4	2.5	2.7	1.9	0.69	53	0.45	0.00	0.28	0.34	e3.5
22	1.1	16	2.2	2.4	1.7	79	80	5.1	0.00	0.18	0.26	e1.3
23	105	3.2	2.2	2.3	1.6	14	6.9	0.97	0.00	0.13	0.19	e1.1
24	3.5	225	2.2	1.9	2.2	6.1	3.4	0.47	0.00	0.08	0.07	e1.3
25	2.2	16	2.2	1.9	1.7	19	3.0	0.29	0.01	0.01	142	e104
26	37	7.3	2.2	1.8	1.3	4.4	9.8	0.25	0.00	0.62	33	e3.0
27	7.6	10	2.2	1.5	1.1	3.4	2.5	0.27	0.00	5.1	2.8	e1.5
28	2.1	4.2	2.2	1.4	2.9	2.6	11	0.46	0.00	0.15	1.2	e43
29	1.2	28	2.1	3.7	---	2.2	7.9	0.19	0.00	0.02	0.83	e4.3
30	6.1	75	1.8	3.0	---	1.9	4.1	0.12	0.00	0.00	0.62	e1.6
31	0.86	---	1.7	1.8	---	1.7	---	0.08	---	0.00	0.47	---
MEAN	14.7	26.9	11.6	43.1	6.69	5.10	10.0	1.23	2.41	5.66	9.79	14.8
MAX	201	225	121	388	84	79	80	6.4	25	80	142	175
MIN	0.00	0.37	1.7	1.4	1.1	0.69	0.74	0.08	0.00	0.00	0.00	0.00
IN.	2.15	3.80	1.70	6.31	0.88	0.75	1.42	0.18	0.34	0.83	1.43	2.10

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

	4.94	11.3	5.14	12.0	9.31	9.92	8.53	11.6	14.8	8.43	5.17	6.02
MEAN	4.94	11.3	5.14	12.0	9.31	9.92	8.53	11.6	14.8	8.43	5.17	6.02
MAX	14.7	32.9	11.6	43.1	23.9	31.9	19.6	24.2	30.8	18.7	10.7	17.8
(WY)	(2005)	(2004)	(2005)	(2005)	(1997)	(1998)	(1998)	(2004)	(2000)	(1998)	(1998)	(2003)
MIN	1.58	0.62	0.66	0.62	3.00	2.63	2.33	1.23	2.41	1.12	0.41	0.04
(WY)	(2000)	(2003)	(1999)	(2003)	(2002)	(2001)	(2000)	(2005)	(2005)	(2002)	(2003)	(2004)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

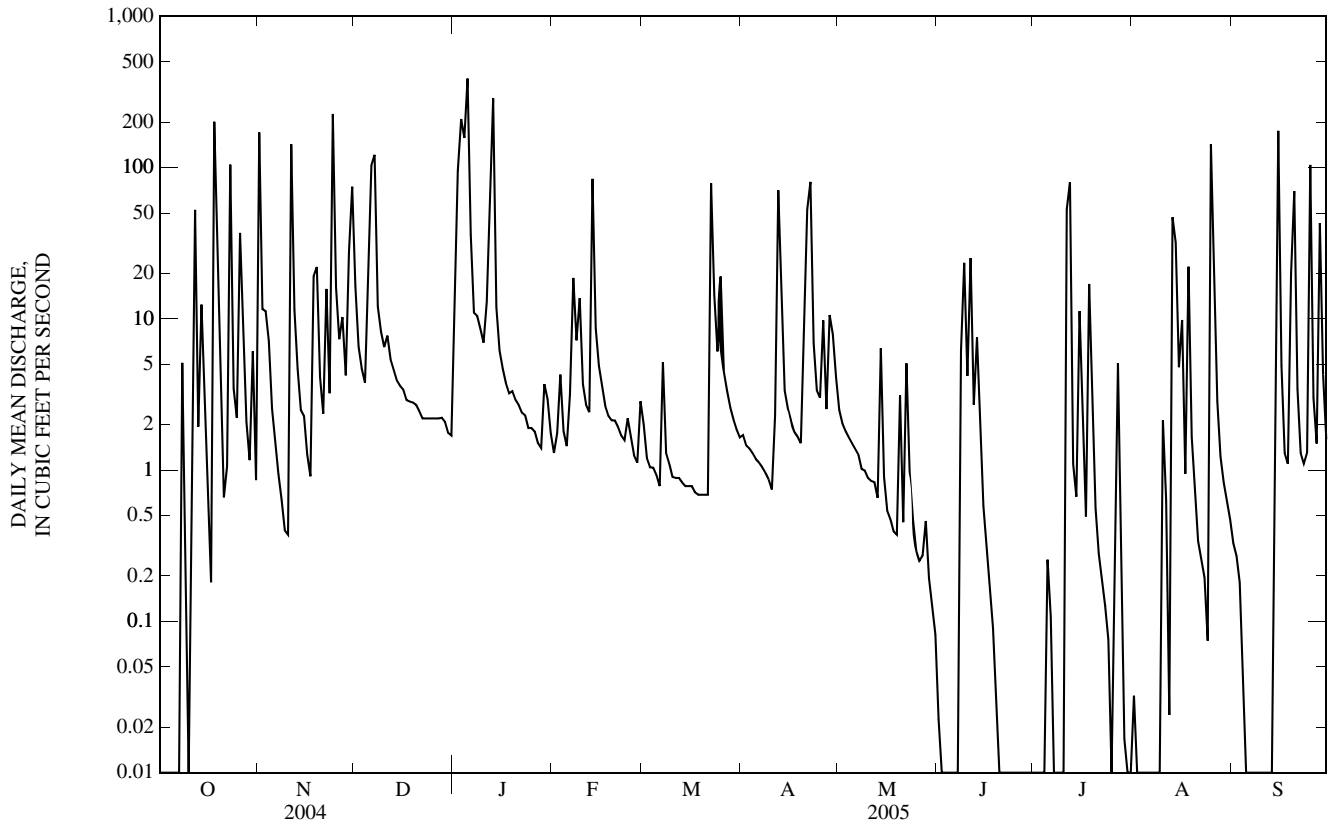
WATER YEARS 1996 - 2005

ANNUAL MEAN	11.7	12.7	8.90
HIGHEST ANNUAL MEAN			12.7
LOWEST ANNUAL MEAN			4.85
HIGHEST DAILY MEAN	353	Jan 4	643
LOWEST DAILY MEAN	0.00	Many Days	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Sep 1,18	0.00
MAXIMUM PEAK FLOW	---		3,780 ^a
MAXIMUM PEAK STAGE	---		11.32
INSTANTANEOUS LOW FLOW	---		0.00
ANNUAL RUNOFF (INCHES)	20.19		21.90
10 PERCENT EXCEEDS	19		22
50 PERCENT EXCEEDS	1.9		1.8
90 PERCENT EXCEEDS	0.01		0.00

e Estimated

^a From rating extended above 571 ft³/s on basis of indirect measurement.

07019317 MATTESE CREEK NEAR MATTESE, MO—Continued



MISSISSIPPI RIVER BASIN

07019370 MISSISSIPPI RIVER AT KIMMSWICK, MO
(Metropolitan St. Louis Sewer District Network)

LOCATION.--Lat 38°21'28", long 90°21'24", Jefferson County, Hydrologic Unit 07140101, below Hoppies Marina, seven miles downstream of station Mississippi River at Oakville (07010220), at mile 159.

DRAINAGE AREA.--703,000 mi², approximately.

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 26...	1150	Environmental	105,000	3.8	10.7	111	8.0	565	16.8	220	54.1	21.2
APR 12...	1550	Environmental	206,000	4.9	8.9	94	7.8	548	16.4	220	53.3	21.4
22...	1145	Environmental	246,000	3.9	7.7	84	7.8	473	18.4	200	49.7	17.6
MAY 10...	1115	Environmental	141,000	2.1	9.7	106	8.2	545	18.7	240	58.5	21.7
JUN 10...	1700	Environmental	279,000	2.5	5.4	67	8.1	469	24.9	200	49.6	18.1
21...	1200	Environmental	238,000	3.1	6.4	79	8.0	499	25.8	230	58.4	21.3
JUL 12...	1130	Environmental	154,000	3.5	6.3	81	7.9	537	27.0	220	55.9	20.2
20...	1710	Environmental	97,200	1.1	8.9	122	8.5	603	30.9	270	68.2	23.8
AUG 09...	1150	Environmental	78,300	1.7	6.8	90	8.3	603	29.5	230	54.8	22.2

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 26...	175	177	215	<1	43	.81	.09	1.63	.018	.10	.20	10	580
APR 12...	175	174	213	<1	147	.22	.10	2.46	.041	.06	<.04	20	74
22...	138	141	172	<1	176d	1.5	.10	2.45	.043	.04	.39	20	150
MAY 10...	168	168	205	<1	70	1.1	<.04	3.16	.011	.03	.22	20	58
JUN 10...	148	151	185	<1	760d	2.1	<.04	3.44	.029	.08	.79	40	280
21...	157	158	192	<1	374d	1.5	E.02n	3.30	.038	.06	.49	30	400
JUL 12...	158	157	192	<1	80	.89	.06	3.71	.037	.10	.29	20	700
20...	171	172	197	6	29	.85	.04	2.63	.030	.08	.18	10	410k
AUG 09...	164	169	206	<1	67	.97	<.04	.84	.029	.10	.26	20	270

07019370 MISSISSIPPI RIVER AT KIMMSWICK, 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 26...	760k	2	2.1	<.06	E.04n	<.8	1.9	E4n	.09	E.6n	<.01	2.65	1.0
APR 12...	100	E1n	1.5	<.06	E.03n	<.8	1.9	E5n	<.08	.7	E.01n	2.67	1.1
22...	200	2	1.3	<.06	E.03n	<.8	1.7	E6n	E.04n	.8	.01	1.61	.7
MAY 10...	60	3	1.9	<.06	E.03n	<.8	1.8	E4n	<.08	1.8	<.01	2.58	1.9
JUN 10...	410	3	1.9	<.06	E.03n	<.8	2.0	E4n	<.08	<.6	.03	3.51	1.2
21...	800	4	2.2	<.06	E.03n	<.8	2.2	E6n	<.08	1.2	.01	4.31	1.5
JUL 12...	580	3	3.0	<.06	E.02n	<.8	1.8	E4n	<.08	.8	<.01	3.50	1.5
20...	470k	3	3.3	<.06	E.02n	<.8	2.3	<6	<.08	E.5n	<.01	3.57	1.9
AUG 09...	410	7	3.6	<.06	E.03n	<.8	1.9	<6	<.08	1.2	<.01	3.21	1.2

Date	Silver, water, fltrd, µg/L (01075)	Zinc, water, fltrd, µg/L (01090)
OCT 26...	<.2	3.5
APR 12...	<.2	1.0
22...	<.2	.9
MAY 10...	<.2	.9
JUN 10...	<.2	E.5n
21...	<.2	1.3
JUL 12...	<.2	1.6
20...	<.2	.7
AUG 09...	<.2	.6

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

MISSISSIPPI RIVER MAIN STEM

07020500 MISSISSIPPI RIVER AT CHESTER, IL

LOCATION.--Lat 37°54'13", long 89°50'08", in SW $\frac{1}{4}$ sec.24, T.7 S., R.7 W., third principal meridian, Randolph County, Hydrologic Unit 07140105, on downstream side of left pier of main truss of highway bridge at Chester, 8.1 mi downstream from Kaskaskia River, and at mile 109.9 above Ohio River.

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

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--

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

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

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

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

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

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

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

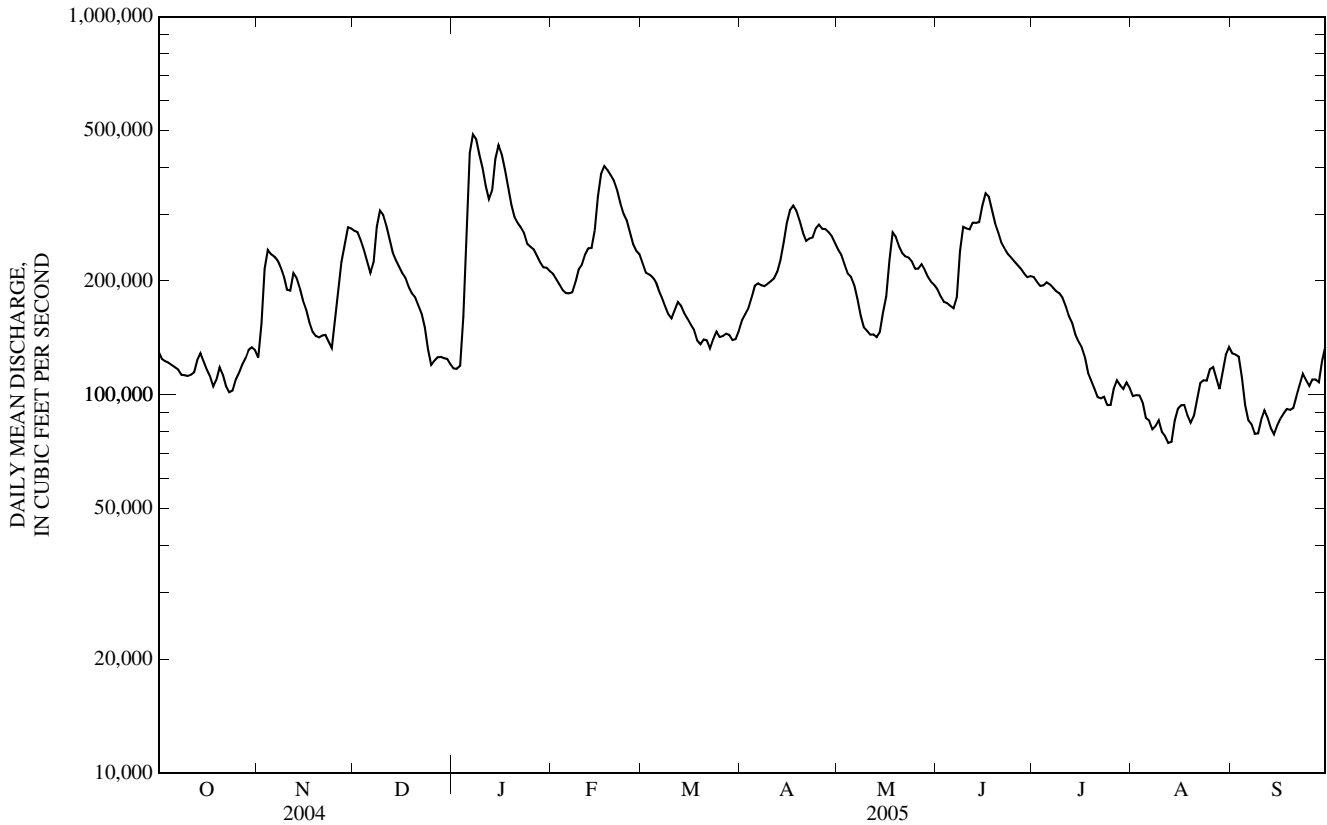
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130,000	125,000	272,000	117,000	209,000	222,000	157,000	242,000	190,000	205,000	99,200	129,000
2	124,000	154,000	269,000	117,000	202,000	210,000	163,000	234,000	182,000	199,000	99,800	128,000
3	123,000	215,000	256,000	119,000	196,000	208,000	170,000	221,000	176,000	194,000	99,700	126,000
4	122,000	242,000	242,000	161,000	189,000	205,000	181,000	209,000	175,000	195,000	95,500	111,000
5	120,000	235,000	226,000	284,000	186,000	200,000	194,000	205,000	172,000	198,000	86,800	94,100
6	118,000	232,000	210,000	436,000	185,000	189,000	197,000	195,000	169,000	196,000	85,600	85,700
7	117,000	227,000	224,000	489,000	187,000	181,000	195,000	179,000	181,000	192,000	81,100	83,500
8	113,000	218,000	278,000	475,000	198,000	172,000	194,000	162,000	240,000	188,000	82,700	78,900
9	113,000	206,000	307,000	432,000	215,000	164,000	197,000	151,000	278,000	186,000	85,600	79,100
10	112,000	190,000	299,000	398,000	221,000	159,000	200,000	148,000	275,000	181,000	79,900	86,000
11	113,000	188,000	280,000	357,000	235,000	167,000	203,000	144,000	274,000	172,000	77,800	91,000
12	115,000	210,000	257,000	329,000	244,000	176,000	211,000	144,000	286,000	161,000	74,600	87,000
13	124,000	204,000	238,000	347,000	245,000	172,000	227,000	142,000	285,000	155,000	75,100	81,700
14	129,000	191,000	227,000	421,000	272,000	164,000	253,000	147,000	286,000	145,000	85,500	78,600
15	123,000	177,000	218,000	458,000	335,000	159,000	285,000	165,000	317,000	138,000	91,900	83,000
16	117,000	168,000	210,000	432,000	384,000	153,000	308,000	182,000	341,000	134,000	93,800	86,600
17	112,000	155,000	204,000	394,000	403,000	148,000	317,000	227,000	334,000	126,000	94,000	89,300
18	105,000	147,000	193,000	355,000	393,000	139,000	306,000	269,000	307,000	114,000	88,300	91,800
19	110,000	143,000	186,000	318,000	381,000	136,000	288,000	262,000	284,000	109,000	84,400	91,300
20	118,000	142,000	181,000	295,000	369,000	140,000	268,000	247,000	268,000	104,000	88,000	92,400
21	113,000	144,000	172,000	285,000	348,000	139,000	255,000	237,000	252,000	98,500	96,800	99,200
22	105,000	144,000	164,000	277,000	322,000	133,000	259,000	232,000	243,000	97,900	107,000	106,000
23	102,000	138,000	151,000	267,000	302,000	140,000	261,000	231,000	235,000	98,900	109,000	114,000
24	103,000	133,000	132,000	251,000	289,000	147,000	275,000	225,000	231,000	93,900	109,000	109,000
25	110,000	157,000	120,000	246,000	269,000	142,000	282,000	216,000	225,000	94,100	117,000	106,000
26	114,000	187,000	123,000	243,000	251,000	143,000	275,000	216,000	221,000	104,000	118,000	110,000
27	120,000	225,000	126,000	233,000	240,000	145,000	274,000	221,000	216,000	109,000	111,000	110,000
28	125,000	249,000	126,000	224,000	235,000	144,000	269,000	214,000	209,000	106,000	104,000	108,000
29	132,000	277,000	125,000	217,000	---	139,000	263,000	205,000	205,000	104,000	115,000	123,000
30	134,000	275,000	124,000	217,000	---	140,000	252,000	199,000	206,000	108,000	128,000	134,000
31	131,000	---	121,000	213,000	---	148,000	---	195,000	---	104,000	134,000	---
MEAN	117,600	189,900	202,000	303,500	268,000	162,100	239,300	202,100	242,100	142,300	96,710	99,770
MAX	134,000	277,000	307,000	489,000	403,000	222,000	317,000	269,000	341,000	205,000	134,000	134,000
MIN	102,000	125,000	120,000	117,000	185,000	133,000	157,000	142,000	169,000	93,900	74,600	78,600
IN.	0.19	0.30	0.33	0.49	0.39	0.26	0.38	0.33	0.38	0.23	0.16	0.16

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

	148,700	156,300	140,600	132,900	161,200	247,400	328,100	322,700	288,400	241,100	159,100	145,300
MEAN	148,700	156,300	140,600	132,900	161,200	247,400	328,100	322,700	288,400	241,100	159,100	145,300
MAX	588,300	380,400	500,100	323,200	331,000	528,400	719,100	630,900	597,200	795,300	769,500	551,000
(WY)	(1987)	(1986)	(1983)	(1973)	(1974)	(1973)	(1973)	(1995)	(1947)	(1993)	(1993)	(1993)
MIN	59,490	59,320	51,070	47,810	52,860	84,200	129,400	127,200	81,040	69,050	69,580	66,030
(WY)	(1957)	(1957)	(1964)	(1964)	(1964)	(1964)	(2000)	(1989)	(1988)	(1988)	(1988)	(1976)

07020500 MISSISSIPPI RIVER AT CHESTER, IL—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1942 - 2005	
ANNUAL MEAN	200,100		188,100		206,000	
HIGHEST ANNUAL MEAN					441,700	1993
LOWEST ANNUAL MEAN					96,770	1956
HIGHEST DAILY MEAN	455,000	May 30	489,000	Jan 7	1,000,000	Aug 6, 1993
LOWEST DAILY MEAN	78,500	Feb 19	74,600	Aug 12	37,600	Jan 1, 1964
ANNUAL SEVEN-DAY MINIMUM	83,000	Feb 15	79,500	Aug 7	38,500	Dec 20, 1963
MAXIMUM PEAK FLOW	---		496,000	Jan 7	1,000,000	Aug 7, 1993
MAXIMUM PEAK STAGE	---		30.76	Jan 7	49.74	Aug 7, 1993
INSTANTANEOUS LOW FLOW	---		73,000	Aug 13	30,000	Dec 12, 1937
ANNUAL RUNOFF (INCHES)	3.84		3.60		3.95	
10 PERCENT EXCEEDS	364,000		286,000		396,000	
50 PERCENT EXCEEDS	178,000		181,000		166,000	
90 PERCENT EXCEEDS	108,000		97,500		78,500	



MISSISSIPPI RIVER MAIN STEM
07020500 MISSISSIPPI RIVER AT CHESTER, IL—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT: August 1980 to current year.

REMARKS.--Sediment records fair.

EXTREMES FOR PERIOD OF RECORD.--

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

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

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS.--Maximum daily mean, 1,540 mg/L, June 17; minimum daily mean, 112 mg/L, July 23.

SUSPENDED-SEDIMENT LOADS.--Maximum daily, 1,480,000 tons, Jan. 7; minimum daily 24,300 tons, Aug. 12.

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	NOVEMBER			DECEMBER		
				Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
	OCTOBER			NOVEMBER			DECEMBER		
1	130,000	161	61,300	125,000	183	61,900	272,000	528	387,000
2	124,000	174	58,500	154,000	302	129,000	269,000	441	320,000
3	123,000	197	65,200	215,000	532	311,000	256,000	415	287,000
4	122,000	201	65,900	242,000	531	346,000	242,000	447	291,000
5	120,000	195	63,200	235,000	483	307,000	226,000	359	219,000
6	118,000	189	60,500	232,000	415	260,000	210,000	243	138,000
7	117,000	184	58,000	227,000	368	226,000	224,000	242	147,000
8	113,000	184	56,000	218,000	323	190,000	278,000	398	301,000
9	113,000	184	55,900	206,000	290	162,000	307,000	566	470,000
10	112,000	179	54,200	190,000	287	147,000	299,000	522	422,000
11	113,000	177	54,100	188,000	329	168,000	280,000	489	370,000
12	115,000	186	57,500	210,000	374	212,000	257,000	429	298,000
13	124,000	204	68,300	204,000	328	181,000	238,000	384	246,000
14	129,000	218	75,900	191,000	253	131,000	227,000	376	231,000
15	123,000	202	67,000	177,000	221	106,000	218,000	308	182,000
16	117,000	192	60,300	168,000	241	109,000	210,000	248	140,000
17	112,000	181	54,600	155,000	167	70,100	204,000	232	128,000
18	105,000	169	48,100	147,000	155	61,600	193,000	212	110,000
19	110,000	173	51,400	143,000	160	61,800	186,000	208	104,000
20	118,000	187	59,900	142,000	167	63,800	181,000	272	133,000
21	113,000	182	55,500	144,000	186	72,200	172,000	261	122,000
22	105,000	171	48,600	144,000	177	69,100	164,000	244	108,000
23	102,000	159	43,700	138,000	193	72,100	151,000	231	94,100
24	103,000	154	42,600	133,000	245	88,100	132,000	210	75,200
25	110,000	151	44,800	157,000	383	163,000	120,000	204	66,800
26	114,000	149	46,000	187,000	386	196,000	123,000	222	73,700
27	120,000	147	47,600	225,000	512	311,000	126,000	208	70,700
28	125,000	145	48,800	249,000	451	303,000	126,000	208	70,700
29	132,000	147	52,400	277,000	469	351,000	125,000	199	67,100
30	134,000	177	63,900	275,000	508	378,000	124,000	221	74,300
31	131,000	222	78,800	---	---	---	121,000	220	71,700
TOTAL	3,647,000	---	1,768,500	5,698,000	---	5,307,700	6,261,000	---	5,818,300

07020500 MISSISSIPPI RIVER AT CHESTER, IL—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/ day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/ day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/ day)
1	117,000	151	47,900	209,000	237	134,000	222,000	214	129,000
2	117,000	156	49,400	202,000	248	136,000	210,000	212	120,000
3	119,000	169	54,400	196,000	224	119,000	208,000	189	106,000
4	161,000	248	113,000	189,000	181	92,500	205,000	177	98,300
5	284,000	744	595,000	186,000	272	136,000	200,000	166	89,300
6	436,000	1,210	1,430,000	185,000	223	112,000	189,000	178	90,700
7	489,000	1,120	1,480,000	187,000	219	110,000	181,000	219	107,000
8	475,000	1,100	1,410,000	198,000	245	131,000	172,000	189	87,800
9	432,000	1,020	1,190,000	215,000	211	122,000	164,000	206	91,100
10	398,000	781	842,000	221,000	266	159,000	159,000	218	93,700
11	357,000	556	537,000	235,000	322	204,000	167,000	230	104,000
12	329,000	449	399,000	244,000	376	248,000	176,000	156	73,900
13	347,000	481	454,000	245,000	430	284,000	172,000	163	75,900
14	421,000	803	915,000	272,000	480	353,000	164,000	164	72,500
15	458,000	816	1,010,000	335,000	523	475,000	159,000	164	70,500
16	432,000	814	950,000	384,000	858	892,000	153,000	151	62,400
17	394,000	809	862,000	403,000	1,060	1,150,000	148,000	126	50,600
18	355,000	696	670,000	393,000	1,090	1,160,000	139,000	158	59,300
19	318,000	474	409,000	381,000	859	884,000	136,000	188	69,100
20	295,000	455	362,000	369,000	713	710,000	140,000	177	66,700
21	285,000	459	353,000	348,000	592	556,000	139,000	150	56,500
22	277,000	368	275,000	322,000	530	461,000	133,000	146	52,200
23	267,000	430	310,000	302,000	406	331,000	140,000	183	69,500
24	251,000	363	246,000	289,000	364	285,000	147,000	197	78,300
25	246,000	351	234,000	269,000	316	230,000	142,000	209	80,200
26	243,000	355	232,000	251,000	278	188,000	143,000	186	72,000
27	233,000	352	222,000	240,000	279	181,000	145,000	177	69,400
28	224,000	309	187,000	235,000	266	169,000	144,000	196	76,100
29	217,000	323	190,000	---	---	---	139,000	174	65,700
30	217,000	240	141,000	---	---	---	140,000	164	62,000
31	213,000	255	147,000	---	---	---	148,000	159	63,600
TOTAL	9,407,000	---	16,316,700	7,505,000	---	10,012,500	5,024,000	---	2,463,300
		APRIL		MAY			JUNE		
1	157,000	177	75,400	242,000	458	299,000	190,000	230	118,000
2	163,000	193	85,400	234,000	387	245,000	182,000	226	111,000
3	170,000	234	107,000	221,000	311	185,000	176,000	198	94,400
4	181,000	212	103,000	209,000	313	177,000	175,000	185	87,400
5	194,000	230	121,000	205,000	329	182,000	172,000	188	87,300
6	197,000	230	123,000	195,000	333	175,000	169,000	186	85,100
7	195,000	226	119,000	179,000	271	131,000	181,000	226	112,000
8	194,000	240	126,000	162,000	232	102,000	240,000	606	403,000
9	197,000	258	137,000	151,000	200	81,400	278,000	1,340	1,010,000
10	200,000	276	149,000	148,000	200	79,600	275,000	1,260	935,000
11	203,000	294	161,000	144,000	197	76,700	274,000	1,150	849,000
12	211,000	345	197,000	144,000	188	73,300	286,000	1,120	865,000
13	227,000	453	279,000	142,000	191	73,500	285,000	1,030	792,000
14	253,000	561	384,000	147,000	175	69,300	286,000	941	728,000
15	285,000	665	513,000	165,000	199	89,300	317,000	1,040	893,000
16	308,000	675	562,000	182,000	292	144,000	341,000	1,450	1,330,000
17	317,000	648	554,000	227,000	564	352,000	334,000	1,540	1,390,000
18	306,000	620	513,000	269,000	1,320	957,000	307,000	1,280	1,060,000
19	288,000	581	451,000	262,000	1,470	1,040,000	284,000	934	717,000
20	268,000	539	391,000	247,000	1,530	1,020,000	268,000	742	538,000
21	255,000	497	343,000	237,000	1,340	856,000	252,000	625	425,000
22	259,000	473	331,000	232,000	962	603,000	243,000	526	345,000
23	261,000	555	390,000	231,000	717	446,000	235,000	479	304,000
24	275,000	647	481,000	225,000	557	339,000	231,000	441	274,000
25	282,000	657	500,000	216,000	457	266,000	225,000	402	245,000
26	275,000	644	478,000	216,000	413	241,000	221,000	364	217,000
27	274,000	631	467,000	221,000	414	248,000	216,000	326	190,000
28	269,000	618	449,000	214,000	366	211,000	209,000	287	162,000
29	263,000	591	420,000	205,000	363	201,000	205,000	249	137,000
30	252,000	526	358,000	199,000	312	168,000	206,000	215	120,000
31	---	---	---	195,000	245	129,000	---	---	---
TOTAL	7,179,000	---	9,367,800	6,266,000	---	9,260,100	7,263,000	---	14,624,200

MISSISSIPPI RIVER MAIN STEM

07020500 MISSISSIPPI RIVER AT CHESTER, IL—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
1	205,000	211	117,000	99,200	167	44,900	129,000	210	73,000
2	199,000	226	121,000	99,800	187	50,400	128,000	203	70,200
3	194,000	285	150,000	99,700	138	37,200	126,000	201	68,600
4	195,000	310	163,000	95,500	113	29,200	111,000	182	54,700
5	198,000	312	167,000	86,800	120	28,100	94,100	164	41,600
6	196,000	246	130,000	85,600	143	33,000	85,700	151	34,900
7	192,000	219	114,000	81,100	151	33,200	83,500	143	32,200
8	188,000	236	120,000	82,700	144	32,200	78,900	135	28,700
9	186,000	213	107,000	85,600	125	28,900	79,100	136	29,000
10	181,000	195	95,000	79,900	118	25,400	86,000	149	34,500
11	172,000	197	91,400	77,800	116	24,500	91,000	151	37,100
12	161,000	185	80,700	74,600	121	24,300	87,000	142	33,300
13	155,000	165	69,300	75,100	121	24,500	81,700	131	28,800
14	145,000	167	65,300	85,500	119	27,600	78,600	122	25,800
15	138,000	161	60,200	91,900	138	34,200	83,000	134	30,100
16	134,000	141	51,000	93,800	133	33,600	86,600	147	34,400
17	126,000	135	46,000	94,000	158	40,200	89,300	156	37,600
18	114,000	146	44,800	88,300	136	32,500	91,800	160	39,600
19	109,000	171	50,400	84,400	170	38,700	91,300	150	37,100
20	104,000	145	40,800	88,000	140	33,200	92,400	133	33,100
21	98,500	134	35,600	96,800	157	41,100	99,200	127	34,000
22	97,900	120	31,800	107,000	163	47,200	106,000	144	41,500
23	98,900	112	29,900	109,000	162	47,900	114,000	254	78,000
24	93,900	132	33,400	109,000	163	48,100	109,000	195	57,700
25	94,100	140	35,600	117,000	171	54,100	106,000	139	39,500
26	104,000	151	42,300	118,000	176	56,300	110,000	140	41,600
27	109,000	119	35,100	111,000	160	47,700	110,000	134	39,700
28	106,000	128	36,600	104,000	146	40,900	108,000	117	34,100
29	104,000	149	41,800	115,000	170	52,800	123,000	145	48,300
30	108,000	170	49,500	128,000	201	69,400	134,000	183	63,400
31	104,000	188	52,800	134,000	228	82,300	---	---	---
TOTAL	4,410,300	---	2,308,300	2,998,100	---	1,243,600	2,993,200	---	1,282,100

07021000 CASTOR RIVER AT ZALMA, MO

LOCATION.--Lat 37°08'48", long 90°04'32", in SE 1/4 sec.29, T.29 N., R.9 E., Bollinger County, Hydrologic Unit 07140107, on downstream side of left bridge pier on State Highway 51 in Zalma and 2.5 mi downstream from Perkins Creek.

DRAINAGE AREA.--423 mi².

WATER-DISCHARGE RECORDS

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

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

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

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

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

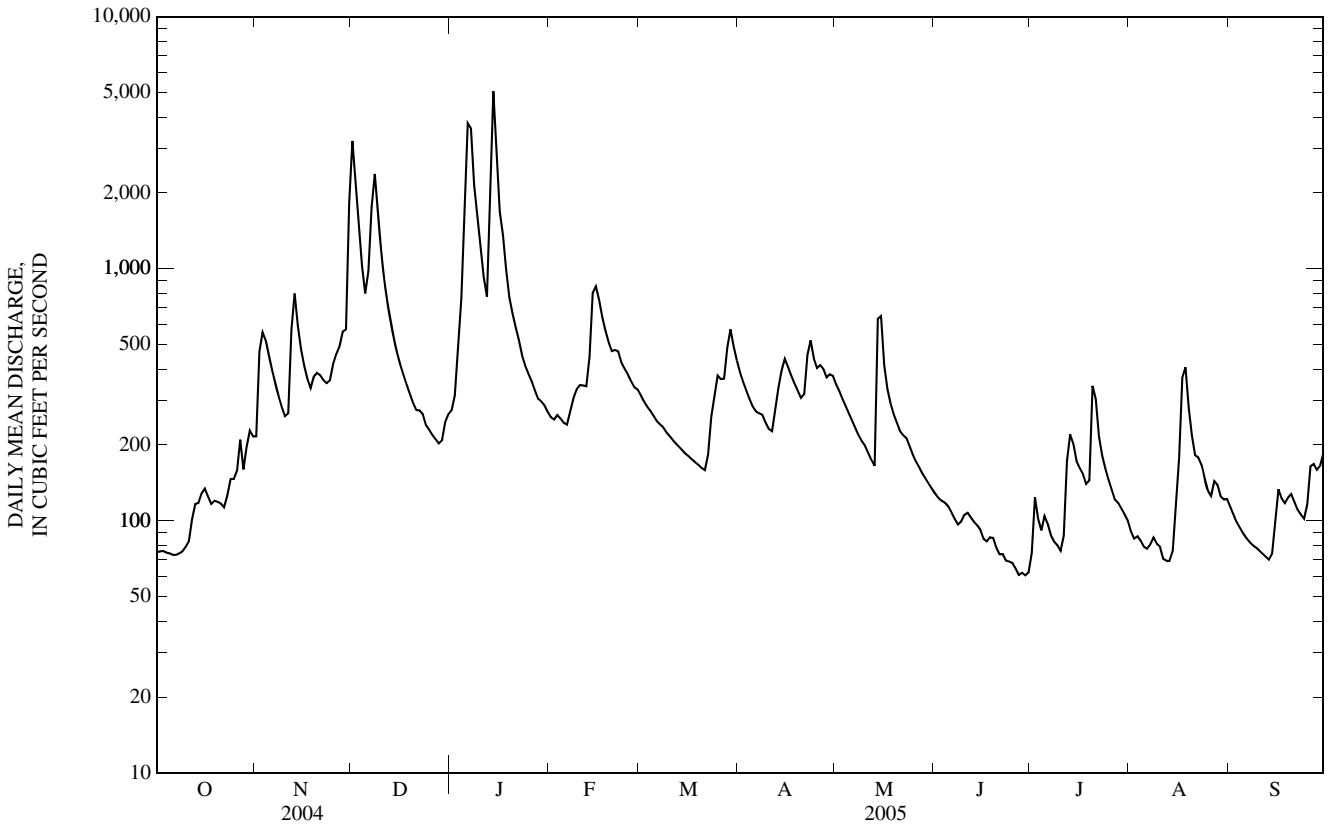
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	217	3,210	275	258	316	388	348	128	74	91	114
2	76	470	2,250	314	252	298	355	327	123	124	85	106
3	76	560	1,460	473	263	284	328	305	120	102	87	99
4	75	519	1,030	764	255	273	304	285	118	92	83	94
5	74	452	798	1,620	245	262	284	267	114	105	79	89
6	73	393	978	3,780	241	249	272	250	108	97	77	86
7	73	351	1,750	3,610	273	242	267	234	102	88	81	82
8	74	313	2,380	2,140	307	235	263	218	97	83	86	80
9	76	283	1,640	1,570	332	225	245	207	99	80	81	78
10	79	260	1,170	1,190	346	217	232	199	106	76	79	76
11	83	267	892	924	344	210	227	186	108	87	71	74
12	102	574	727	775	342	203	279	175	103	173	69	72
13	117	799	617	2,260	447	197	338	165	99	220	69	70
14	118	594	527	5,050	801	190	397	633	96	202	76	74
15	129	480	462	2,980	850	184	440	649	92	173	114	99
16	134	412	415	1,690	752	180	408	414	85	162	178	133
17	125	366	378	1,360	643	175	377	334	83	153	369	123
18	117	337	346	992	568	171	352	292	86	140	407	117
19	120	374	319	770	511	167	328	265	86	145	281	124
20	119	387	293	664	472	162	307	245	78	343	218	128
21	117	378	275	585	476	159	318	227	74	304	182	119
22	113	362	275	520	470	183	456	218	74	216	179	111
23	126	352	265	453	424	259	519	213	70	182	167	106
24	147	360	240	412	401	310	441	196	69	161	147	102
25	147	418	230	383	380	377	404	182	68	146	132	116
26	158	458	219	358	358	365	415	171	65	133	126	165
27	210	491	211	330	339	366	401	162	61	121	144	168
28	160	564	203	306	332	486	371	153	62	118	139	159
29	197	575	209	298	---	575	381	146	61	112	125	165
30	228	1,830	247	287	---	491	376	139	62	106	122	185
31	216	---	265	271	---	433	---	133	---	100	122	---
MEAN	120	473	783	1,207	417	272	349	256	89.9	143	138	110
MAX	228	1,830	3,210	5,050	850	575	519	649	128	343	407	185
MIN	73	217	203	271	241	159	227	133	61	74	69	70
IN.	0.33	1.25	2.14	3.29	1.03	0.74	0.92	0.70	0.24	0.39	0.38	0.29

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

MEAN	159	409	594	717	708	1,016	1,008	817	419	166	112	123
MAX	1,576	2,045	5,507	3,735	2,279	3,521	3,645	3,944	4,082	1,195	336	883
(WY)	(1985)	(1985)	(1983)	(1937)	(1989)	(1945)	(1927)	(2002)	(1928)	(1976)	(2003)	(1965)
MIN	37.0	59.1	72.1	60.7	95.4	98.0	142	90.2	43.9	33.4	22.5	31.5
(WY)	(1921)	(1921)	(1956)	(1956)	(1934)	(1941)	(1971)	(1932)	(1936)	(1936)	(1936)	(1953)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	455		364		521	
HIGHEST ANNUAL MEAN					1,088	1950
LOWEST ANNUAL MEAN					149	1941
HIGHEST DAILY MEAN	5,610	Apr 25	5,050	Jan 14	42,700	Dec 4, 1982
LOWEST DAILY MEAN	73	Oct 6,7	61	Jun 27,29	16	Aug 31, 1936
ANNUAL SEVEN-DAY MINIMUM	74	Oct 2	64	Jun 24	19	Aug 25, 1936
MAXIMUM PEAK FLOW	---		5,460	Jan 14	97,100	Dec 4, 1982
MAXIMUM PEAK STAGE	---		19.57	Jan 14	29.92	Dec 4, 1982
INSTANTANEOUS LOW FLOW	---		59	Jun 28,29	16	Aug 31, 1936
ANNUAL RUNOFF (INCHES)	14.65		11.68		16.73	
10 PERCENT EXCEEDS	852		637		1,060	
50 PERCENT EXCEEDS	281		227		184	
90 PERCENT EXCEEDS	97		80		60	



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

WATER-QUALITY RECORDS

PERIOD OF REOCDR.--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 22...	1410	Environmental	361	8.7	84	7.3	178	13.3	92	18.7	11.0	1.10
JAN 24...	1230	Environmental	411	12.5	96	7.6	152	3.8	--	--	--	--
JAN 24...	1231	Replicate	--	12.4	95	7.6	152	3.8	--	--	--	--
MAR 14...	1510	Environmental	189	11.6	103	7.9	180	9.6	--	--	--	--
MAY 17...	0850	Environmental	340	7.4	79	7.2	156	17.9	73	15.1	8.60	.96
JUL 18...	1435	Environmental	139	6.4	82	7.9	214	27.2	--	--	--	--
SEP 06...	1525	Environmental	85	6.8	84	7.5	234	25.4	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd titr., field, mg/L (00450)	Carbonate, wat unfltrd titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
NOV 22...	1.93	83	85	103	<1	2.52	<.1	3.9	96	<10	.13	<.04	.11
JAN 24...	--	--	--	--	--	--	--	--	--	<10	E.07n	<.04	.39
JAN 24...	--	--	--	--	--	--	--	--	--	<10	E.10n	<.04	.38
MAR 14...	--	--	--	--	--	--	--	--	--	<10	.13	<.04	E.04n
MAY 17...	1.59	64	64	79	<1	1.72	<.1	4.2	81	25	.20	<.04	.12
JUL 18...	--	--	--	--	--	--	--	--	--	18	.23	<.04	E.03n
SEP 06...	--	--	--	--	--	--	--	--	--	26	.13	<.04	<.06

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC MF, col/100 mL (31625)	Aluminum, water, fltrd, 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)
NOV 22...	<.008	<.02	<.04	<.04	53	55	2	108	E.2n	<.04	<.04	E.3n	8
JAN 24...	<.008	<.02	<.04	<.04	2k	13k	--	--	--	--	--	--	--
JAN 24...	<.008	<.02	<.04	<.04	3k	15k	--	--	--	--	--	--	--
MAR 14...	<.008	<.02	<.04	<.04	3k	8k	--	--	--	--	--	--	--
MAY 17...	<.008	--u	<.04	E.02n	100	180	3	231	.2	<.04	E.02n	E.3n	13
JUL 18...	<.008	<.02	<.04	<.04	46	120k	--	--	--	--	--	--	--
SEP 06...	<.008	<.09d	<.04	<.04	18k	26	--	--	--	--	--	--	--

MISSISSIPPI RIVER BASIN BELOW MISSOURI RIVER

07021000 CASTOR RIVER AT ZALMA, MO—Continued

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

Date	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV 22...	<.08	.49	29.2	E.01n	<.4	.7	E1n
JAN 24...	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--
MAR 14...	--	--	--	--	--	--	--
MAY 17...	<.08	.74	23.7	<.01	<.4	.9	E2n
JUL 18...	--	--	--	--	--	--	--
SEP 06...	--	--	--	--	--	--	--

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

Null value qualifier codes used in this table:

u -- Unable to determine-matrix interference

07022000 MISSISSIPPI RIVER AT THEBES, IL

LOCATION.--Lat 37°12'59", long 89°28'03", in NW ¼ sec.17, T.15 S., R.3 W., Alexander County, Hydrologic Unit 07140105, near center span on downstream side of railroad bridge at Thebes, 5.0 mi downstream from Headwater Diversion Channel, and at mile 43.7 above Ohio River.

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

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--

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

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

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

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

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138,000	134,000	301,000	129,000	231,000	247,000	162,000	251,000	195,000	207,000	106,000	134,000
2	131,000	137,000	298,000	128,000	222,000	231,000	172,000	244,000	189,000	204,000	103,000	130,000
3	125,000	178,000	288,000	128,000	212,000	222,000	177,000	234,000	182,000	198,000	103,000	130,000
4	123,000	235,000	272,000	143,000	204,000	219,000	185,000	222,000	178,000	196,000	102,000	125,000
5	122,000	251,000	256,000	230,000	198,000	214,000	197,000	215,000	176,000	199,000	96,400	110,000
6	120,000	244,000	240,000	425,000	195,000	205,000	206,000	209,000	173,000	199,000	89,900	95,300
7	118,000	242,000	239,000	519,000	196,000	194,000	206,000	196,000	173,000	196,000	87,500	89,100
8	116,000	234,000	282,000	534,000	201,000	186,000	203,000	179,000	201,000	193,000	84,600	85,800
9	113,000	223,000	334,000	500,000	217,000	177,000	203,000	164,000	261,000	189,000	86,000	82,000
10	112,000	208,000	342,000	465,000	229,000	169,000	206,000	155,000	282,000	187,000	86,700	83,100
11	111,000	196,000	328,000	427,000	239,000	169,000	209,000	152,000	278,000	181,000	82,500	89,500
12	112,000	210,000	301,000	391,000	254,000	178,000	218,000	149,000	283,000	175,000	78,600	92,800
13	115,000	219,000	276,000	392,000	259,000	181,000	231,000	149,000	292,000	165,000	76,800	88,700
14	124,000	209,000	259,000	448,000	272,000	175,000	250,000	150,000	288,000	156,000	79,300	84,100
15	128,000	195,000	248,000	488,000	322,000	169,000	281,000	160,000	304,000	146,000	90,000	83,300
16	122,000	185,000	238,000	491,000	388,000	163,000	309,000	177,000	332,000	141,000	92,600	86,700
17	116,000	174,000	229,000	459,000	429,000	158,000	324,000	199,000	343,000	135,000	94,800	89,700
18	111,000	163,000	220,000	423,000	435,000	151,000	320,000	254,000	325,000	126,000	93,200	92,700
19	106,000	156,000	208,000	385,000	424,000	143,000	301,000	273,000	298,000	117,000	88,200	94,700
20	111,000	152,000	202,000	356,000	408,000	142,000	279,000	260,000	280,000	114,000	85,700	93,800
21	117,000	150,000	194,000	338,000	388,000	144,000	261,000	247,000	263,000	107,000	90,500	97,400
22	113,000	151,000	185,000	328,000	360,000	141,000	260,000	239,000	250,000	103,000	99,200	103,000
23	108,000	150,000	172,000	317,000	333,000	142,000	263,000	235,000	242,000	103,000	108,000	112,000
24	105,000	143,000	154,000	300,000	317,000	151,000	268,000	232,000	234,000	102,000	107,000	115,000
25	106,000	147,000	137,000	286,000	300,000	152,000	282,000	224,000	230,000	97,400	110,000	112,000
26	112,000	173,000	129,000	282,000	280,000	149,000	280,000	218,000	224,000	99,400	117,000	110,000
27	118,000	213,000	132,000	274,000	263,000	151,000	277,000	222,000	220,000	108,000	116,000	113,000
28	123,000	248,000	134,000	261,000	256,000	156,000	276,000	222,000	214,000	111,000	108,000	112,000
29	127,000	284,000	134,000	251,000	---	152,000	271,000	212,000	208,000	108,000	106,000	114,000
30	134,000	304,000	134,000	244,000	---	149,000	263,000	204,000	206,000	109,000	119,000	130,000
31	136,000	---	135,000	239,000	---	155,000	---	199,000	---	110,000	131,000	---
MEAN	118,500	196,900	225,800	341,300	286,900	172,100	244,700	207,900	244,100	147,800	97,370	102,600
MAX	138,000	304,000	342,000	534,000	435,000	247,000	324,000	273,000	343,000	207,000	131,000	134,000
MIN	105,000	134,000	129,000	128,000	195,000	141,000	162,000	149,000	173,000	97,400	76,800	82,000
IN.	0.19	0.31	0.37	0.55	0.42	0.28	0.38	0.34	0.38	0.24	0.16	0.16

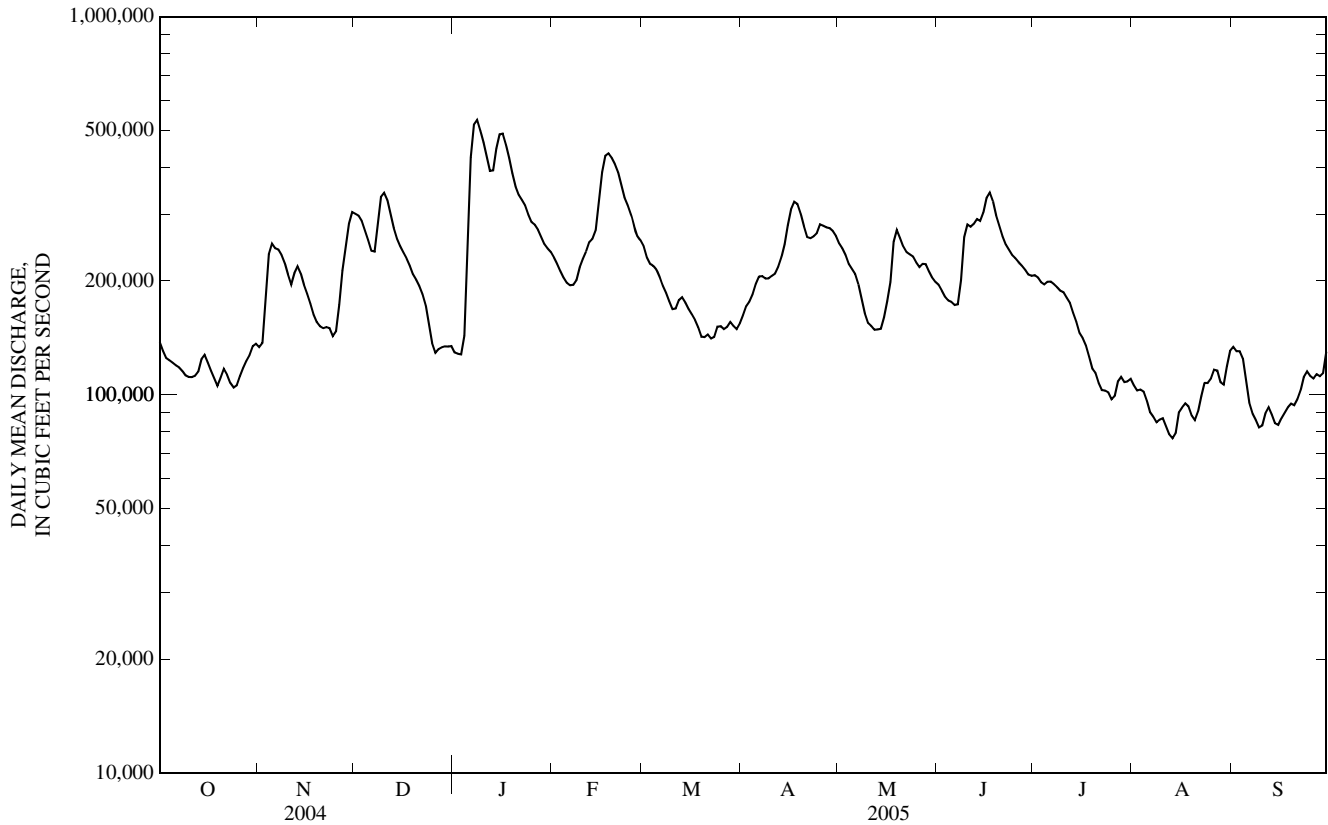
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2005, BY WATER YEAR (WY)

MEAN	148,200	156,600	142,500	136,700	164,300	249,600	324,600	323,300	290,900	238,100	155,600	142,000
MAX	589,600	389,000	531,700	341,300	350,400	542,000	731,000	655,800	584,100	765,500	768,000	539,300
(WY)	(1987)	(1986)	(1983)	(2005)	(1974)	(1985)	(1973)	(1973)	(1947)	(1993)	(1993)	(1993)
MIN	45,500	50,080	53,850	33,650	46,920	80,260	115,600	88,170	72,350	73,290	45,000	59,890
(WY)	(1940)	(1940)	(1956)	(1940)	(1940)	(1934)	(1934)	(1934)	(1934)	(1936)	(1936)	(1937)

MISSISSIPPI RIVER MAIN STEM

07022000 MISSISSIPPI RIVER AT THEBES, IL—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1933 - 2005	
ANNUAL MEAN	212,900		198,100		206,400	
HIGHEST ANNUAL MEAN					446,000	1993
LOWEST ANNUAL MEAN					71,730	1934
HIGHEST DAILY MEAN	500,000	May 31	534,000	Jan 8	978,000	Aug 7, 1993
LOWEST DAILY MEAN	84,200	Feb 20	76,800	Aug 13	24,700	Jan 21, 1940
ANNUAL SEVEN-DAY MINIMUM	89,200	Feb 16	82,100	Aug 8	26,700	Jan 20, 1940
MAXIMUM PEAK FLOW	---		539,000	Jan 8	996,000	Aug 7, 1993
MAXIMUM PEAK STAGE	---		35.20	Jan 8	45.91	May 23, 1995
INSTANTANEOUS LOW FLOW	---		75,500	Aug 13	23,400	Dec 13, 1937
ANNUAL RUNOFF (INCHES)	4.07		3.77		3.93	
10 PERCENT EXCEEDS	395,000		312,000		402,000	
50 PERCENT EXCEEDS	185,000		186,000		166,000	
90 PERCENT EXCEEDS	111,000		101,000		76,300	



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

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1981.

WATER TEMPERATURE: October 1974 to September 1981.

SUSPENDED-SEDIMENT: October 1980 to current year.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

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

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

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATION.--Maximum daily mean, 1,110 mg/L, June 18; minimum daily mean, 97 mg/L, Dec. 29.

SUSPENDED-SEDIMENT LOAD.--Maximum daily, 1,530,000 tons, Jan. 7; minimum daily 26,200 tons, Sept. 14

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)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. 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)
OCT												
20...	1445	Environmental	112,000	.116	.084	10.8	110	8.1	561	15.5	210	52.1
DEC												
01...	1450	Environmental	300,000	.158	.119	12.1	103	7.6	411	8.3	170	42.0
01...	1458	Blank	--	<.004	<.004	--	--	--	--	--	--	--
JAN												
12...	1445	Environmental	388,000	.162	.123	12.8	101	7.7	346	4.7	150	36.9
FEB												
16...	1425	Environmental	394,000	.164	.123	13.0	104	7.6	508	5.7	210	52.3
MAR												
14...	1425	Environmental	174,000	.121	.091	10.9	90	7.8	548	7.0	240	61.0
APR												
04...	1445	Environmental	186,000	.125	.095	11.1	105	8.2	565	12.4	240	60.7
04...	1453	Blank	--	--	--	--	--	--	--	--	--	.04
18...	1405	Environmental	319,000	.169	.126	8.1	85	7.6	429	17.1	180	47.2
MAY												
04...	1340	Environmental	220,000	.135	.098	9.1	90	7.9	489	14.7	210	51.3
23...	1415	Environmental	235,000	.150	.110	6.8	79	7.7	476	21.4	210	51.2
JUN												
15...	1355	Environmental	305,000	.137	.100	6.1	75	7.8	458	25.5	200	50.3
22...	1410	Environmental	249,000	.145	.105	6.1	77	7.9	482	26.6	220	54.3
JUL												
06...	1335	Environmental	199,000	.161	.115	6.0	79	7.8	554	28.8	240	57.5
06...	1343	Blank	--	--	--	--	--	--	--	--	--	--
AUG												
03...	1345	Environmental	104,000	.141	.100	6.5	88	8.0	592	30.7	230	54.5
03...	1355	Replicate	--	.144	.103	--	--	--	--	--	230	54.0
SEP												
14...	1405	Environmental	83,800	.124	.088	9.6	125	7.9	543	28.1	220	52.6

07022000 MISSISSIPPI RIVER AT THEBES, IL—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)
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 20...													
DEC 01...													
JAN 01...													
JAN 12...													
FEB 16...													
MAR 14...													
APR 04...													
APR 04...													
APR 18...													
MAY 04...													
MAY 23...													
JUN 15...													
JUN 22...													
JUL 06...													
AUG 06...													
AUG 03...													
AUG 03...													
SEP 14...													
OCT 20...	.78	.05	1.42	.022	.34	.123	.138	.25o	2.9	<.1	2.9	4.3	11.4
DEC 01...	.98	E.04n	1.65	.010	.51	.119	.137	.33o	4.6	<.1	4.6	4.9n	5.4
JAN 01...	--	--	--	--	.06	--	--	--	<.1	<.1	<.1	E.3n	--
JAN 12...	1.2	.07	1.86	.012	.60	.097	.118	.38o	4.6	<.1	4.5	5.3	6.3
FEB 16...	1.1	.08	2.59	.012	.63	.102	.117	.40o	5.5	<.1	5.4	4.8	5.1
MAR 14...	.70	.09	3.18	.015	.34	.112	.132	.28o	2.4	<.1	2.4	4.1	E7.9
APR 04...	.99	<.04	2.34	.014	.52	.061	.080	.21o	3.6	<.1	3.5	4.4	13.6
APR 04...	--	<.010	<.016	E.001n	--	<.006	--	--	--	--	--	--	--
APR 18...	1.7	<.04	2.29	.076	.66	.071	.090	.51o	6.1	<.1	6.0	5.9	12.9
MAY 04...	1.1	<.04	3.28	.033	.53	.101	.112	.28o	4.4	<.1	4.3	4.4	9.5
MAY 23...	2.0	<.04	4.16	.018	1.02	.092	.107	.64o	9.1	<.1	9.0	4.7	13.4
JUN 15...	1.6	<.04	3.20	E.007n	--	.102	.117	.49o	--	--	--	4.8	8.4
JUN 22...	1.4	<.04	3.41	<.008	.84	.119	.133	.48o	7.8	.1	7.7	4.6	9.2
JUL 06...	.86	<.04	2.98	.013	.52	.148	.184	.31o	3.2	<.1	3.2	5.5	6.5
AUG 06...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 03...	.95	E.02n	1.22	.030	.34	.107	.140	.25o	2.0	<.1	2.0	4.7	19.2
AUG 03...	.91	<.04	1.18	.030	.38	.103	.140	.24o	2.4	<.1	2.4	4.8	21.2
SEP 14...	.62	<.04	.26	.016	.38	.143	<.004	.24o	2.6	<.1	2.5	5.1	14.6

07022000 MISSISSIPPI RIVER AT THEBES, IL—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 (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 20...	850k	690k	22.5	--	--	2.3	--	--	73	--	--	--	--
DEC 01...	1,300k	1,200k	4.1	2	E.14n	1.4	63	<.06	40	<.04	<.8	.212	1.7
JAN 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 12...	600	720	6.5	--	--	1.2	--	--	27	--	--	--	--
FEB 16...	120	180	7.0	--	--	1.2	--	--	32	--	--	--	--
MAR 14...	68	96	E12.5	2	E.15n	1.3	66	<.06	46	<.04	<.8	.215	1.5
APR 04...	42	58	21.8	--	--	1.2	--	--	59	--	--	--	--
APR 04...	--	--	--	<2	<.20	<.2	<.2	<.06	<8	<.04	<.8	<.014	<.4
APR 18...	130k	300k	9.1	--	--	1.2	--	--	38	--	--	--	--
MAY 04...	54	140k	8.5	2	.22	1.6	74	<.06	48	E.03n	<.8	.174	1.7
MAY 23...	310	300	10.7	3	.28	1.9	85	<.06	70	E.03n	<.8	.410	2.1
JUN 15...	500	630k	4.7	3	.28	1.8	81	<.06	50	E.03n	<.8	.177	2.2
JUN 22...	230	600	7.9	--	--	2.2	--	--	47	--	--	--	--
JUL 06...	110	190	9.4	4	.32	3.1	91	<.06	63	E.03n	<.8	.220	2.4
JUL 06...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 03...	10k	16k	32.6	7	.41	3.6	83	<.06	81	E.03n	<.8	.283	2.9
AUG 03...	--	--	35.1	7	.41	3.6	83	<.06	78	E.03n	<.8	.272	2.8
SEP 14...	16k	8k	29.2	--	--	3.5o	--	--	83	--	--	--	--

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 20...	<6	--	16.8	--	--	--	1.0	--	238	3.5	--	E.005n	E.023
DEC 01...	10	<.08	5.8	2.9	1.5	1.42	.8	<.2	154	1.7	.9	<.006	E.025
DEC 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 12...	14	--	2.9	--	--	--	1.2	--	111	1.7	--	E.006n	E.012
FEB 16...	7	--	7.2	--	--	--	1.0	--	176	1.2	--	<.006	E.016
MAR 14...	9	E.05n	7.7	2.4	1.6	2.22	.9	<.2	188	1.9	1.1	<.006	E.017m
APR 04...	6	--	8.3	--	--	--	1.0	--	212	2.9	--	<.006	E.018m
APR 04...	<6	<.08	<.6	<.2	<.4	<.06	<.4	<.2	<.40	<.1	<.6	--	--
APR 18...	10	--	7.7	--	--	--	.9	--	177	2.2	--	<.006	E.028m
MAY 04...	E3n	<.08	8.0	1.2	1.9	2.56	1.3	<.2	184	2.1	.8	.008	E.037m
MAY 23...	E4n	<.08	9.2	.3	2.4	10.3	1.8	<.2	212	3.2	1.0	<.006	E.276m
JUN 15...	E3n	<.08	12.2	.6	2.2	3.43	1.2	<.2	212	3.2	.7	<.006	E.150m
JUN 22...	<6	--	10.4	--	--	--	1.5	--	220	3.6	--	<.006	E.086m
JUL 06...	E3n	<.08	17.5	.7	2.7	4.01	1.8	<.2	230	4.6	2.2	<.006	E.090m
JUL 06...	--	--	--	--	--	--	--	--	--	--	--	<.006	E.005mm
AUG 03...	<6	.17	18.7	.6	3.9	3.68	1.6	<.2	266	5.2	.9	<.006	E.079m
AUG 03...	E4n	E.05n	18.6	.6	3.9	3.74	1.5	<.2	270	5.0	.7	--	--
SEP 14...	<6	--	18.5	--	--	--	.95o	--	294	4.0o	--	<.006	E.025m

07022000 MISSISSIPPI RIVER AT THEBES, IL—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 (82686)	Ben- flur- alin, water, fltrd 0.7µ GF (82673)	Butyl- ate, water, fltrd, µg/L (04028)	Car- baryl, water, fltrd 0.7µ GF (82680)	Carbo- furan, water, fltrd 0.7µ GF (82674)	Chlor- pyrifos water, fltrd, µg/L (38933)	cis- Per- methrin water fltrd 0.7µ GF (82687)	Cyana- zine, water, fltrd, µg/L (04041)	DCPA, water fltrd 0.7µ GF (82682)
OCT 20...	.017	<.004	<.005	.128	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003
DEC 01...	.024	<.004	<.005	.202	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003
JAN 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 12...	.018	<.004	<.005	.110	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003
FEB 16...	.030	<.010	<.005	.109	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003
MAR 14...	.024	<.010	<.005	.082	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003
APR 04...	.066	<.005	<.005	.136	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003
MAY 04...	.224	.014	<.005	1.44	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003
JUN 23...	1.26	.112	<.005	6.79	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003
JUL 15...	.291	.076	<.005	.910	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003
AUG 06...	<.006	<.005	<.005	.033	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003
SEP 03...	<.015	<.005	<.005	.463	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003
OCT 14...	.032	<.005	<.005	.290	<.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 (82677)	EPTC, water, fltrd 0.7µ GF (82668)	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 parathion, water, fltrd 0.7µ GF (82667)	Metolachlor, water, fltrd, µg/L (39415)	Metribuzin, water, fltrd, µg/L (82630)
OCT 20...	<.005	<.005	<.02	<.010	<.009	<.005	<.003	<.004	<.035	<.027	<.006	.036	<.006
DEC 01...	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006	.025	<.006
JAN 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 12...	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006	.029	<.006
FEB 16...	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006	.045	<.006
MAR 14...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.097	<.006
APR 04...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.055	<.006
MAY 04...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.310	<.006
JUN 23...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	1.49	.043
JUL 15...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.507	.013
AUG 06...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.342	.006
SEP 03...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.240	<.006
OCT 14...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.013	<.006
JAN 03...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.053	<.006
SEP 14...	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.041	<.006

07022000 MISSISSIPPI RIVER AT THEBES, IL—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 20...	<.002	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.010	<.011	<.02	<.005
DEC 01...	<.002	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.010	<.011	<.02	.170
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 12...	<.002	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.010	<.011	<.02	.217
FEB 16...	<.002	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.010	<.011	<.02	.067
MAR 14...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.042
APR 04...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.051
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.046
MAY 04...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	E.01n	<.004	<.025	<.011	<.02	.082
23...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	.083
JUN 15...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	.037
22...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	E.01n	<.004	<.025	<.011	<.50	.025
JUL 06...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	E.01n	<.004	<.025	<.011	<.02	.016
06...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.005
AUG 03...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	E.01n	<.004	<.025	<.011	<.02	<.012
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 14...	<.003	<.007	<.003	<.010	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	<.009

MISSISSIPPI RIVER MAIN STEM

07022000 MISSISSIPPI RIVER AT THEBES, IL—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									
20...	<.02	<.034	<.02	<.005	<.002	<.009	--	64	158
DEC									
01...	<.02	<.034	<.02	<.005	<.002	<.009	1.29	94	194
01...	--	--	--	--	--	--	--	--	--
JAN									
12...	<.02	<.034	<.02	<.005	<.002	<.009	--	69	456
FEB									
16...	<.02	<.034	<.02	<.005	<.002	<.009	--	73	440
MAR									
14...	<.02	<.034m	<.02	<.010	<.006	<.009	1.80	60	115
APR									
04...	<.02	<.034m	<.02	<.010	<.006	<.009	--	87	89
04...	--	--	--	--	--	--	<.04	--	--
18...	<.02	<.034m	<.02	<.010	<.006	<.009	--	90	659
MAY									
04...	<.02	<.034m	<.02	<.010	<.006	<.009	2.16	97	762
23...	<.02	<.034m	<.02	<.010	<.006	<.009	2.45	89	631
JUN									
15...	<.02	<.034m	<.02	<.010	<.006	<.009	2.16	94	688
22...	<.02	<.034m	<.02	<.010	<.006	<.009	--	95	428
JUL									
06...	<.02	<.034m	<.02	<.010	<.006	<.009	3.02	82	171
06...	<.02	<.034m	<.02	<.010	<.006	<.009	--	--	--
AUG									
03...	<.02	<.034m	<.02	<.010	<.006	<.009	2.88	90	100
03...	--	--	--	--	--	--	2.94	--	--
SEP									
14...	<.02	<.034m	<.02	<.010	<.006	<.009	--	76	91

Remark codes used in this table:

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

Value qualifier codes used in this table:

- k -- Counts outside acceptable range
- m -- Value is highly variable by this method
- n -- Below the LRL and above the LT-MDL
- o -- Result determined by alternate method

07022000 MISSISSIPPI RIVER AT THEBES, IL—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
1	138,000	150	48,600	134,000	166	59,900	301,000	309	251,000
2	131,000	163	57,400	137,000	171	63,400	298,000	281	226,000
3	125,000	156	52,600	178,000	229	111,000	288,000	262	204,000
4	123,000	152	50,800	235,000	303	194,000	272,000	222	163,000
5	122,000	165	54,300	251,000	435	295,000	256,000	196	136,000
6	120,000	165	53,400	244,000	414	273,000	240,000	170	110,000
7	118,000	160	51,200	242,000	358	234,000	239,000	165	107,000
8	116,000	156	48,800	234,000	316	200,000	282,000	210	162,000
9	113,000	164	50,000	223,000	259	156,000	334,000	332	300,000
10	112,000	163	48,900	208,000	234	132,000	342,000	406	376,000
11	111,000	166	49,900	196,000	235	124,000	328,000	361	319,000
12	112,000	150	45,400	210,000	235	133,000	301,000	327	266,000
13	115,000	141	44,000	219,000	268	158,000	276,000	281	209,000
14	124,000	159	53,300	209,000	235	133,000	259,000	248	173,000
15	128,000	172	59,200	195,000	215	113,000	248,000	199	133,000
16	122,000	176	57,900	185,000	197	98,200	238,000	180	116,000
17	116,000	169	52,800	174,000	158	74,100	229,000	156	96,500
18	111,000	155	46,200	163,000	164	72,100	220,000	151	89,600
19	106,000	151	43,100	156,000	156	65,500	208,000	138	77,400
20	111,000	159	47,800	152,000	155	63,500	202,000	138	75,100
21	117,000	165	52,200	150,000	146	59,100	194,000	148	77,400
22	113,000	139	42,500	151,000	129	52,700	185,000	141	70,400
23	108,000	141	40,900	150,000	118	47,700	172,000	134	62,200
24	105,000	162	45,700	143,000	116	44,700	154,000	126	52,500
25	106,000	166	47,600	147,000	149	59,700	137,000	118	43,600
26	112,000	150	45,400	173,000	224	105,000	129,000	112	39,200
27	118,000	149	47,600	213,000	237	136,000	132,000	116	41,500
28	123,000	152	50,400	248,000	264	177,000	134,000	104	37,700
29	127,000	173	59,500	284,000	303	233,000	134,000	97	35,100
30	134,000	161	58,600	304,000	319	262,000	134,000	108	39,000
31	136,000	188	69,400	---	---	---	135,000	117	42,700
TOTAL	3,673,000	---	1,575,400	5,908,000	---	3,929,600	7,001,000	---	4,130,900
			JANUARY			FEBRUARY			MARCH
1	129,000	132	46,000	231,000	152	94,700	247,000	219	146,000
2	128,000	157	54,500	222,000	159	95,100	231,000	205	128,000
3	128,000	110	38,100	212,000	160	91,500	222,000	183	110,000
4	143,000	140	54,800	204,000	148	81,800	219,000	164	97,300
5	230,000	322	213,000	198,000	143	76,600	214,000	149	86,300
6	425,000	753	880,000	195,000	173	91,300	205,000	154	85,500
7	519,000	1,090	1,530,000	196,000	138	72,700	194,000	153	80,200
8	534,000	1,010	1,460,000	201,000	134	72,900	186,000	152	76,100
9	500,000	785	1,060,000	217,000	136	79,700	177,000	163	77,600
10	465,000	634	797,000	229,000	174	107,000	169,000	161	73,200
11	427,000	503	580,000	239,000	174	113,000	169,000	140	64,200
12	391,000	431	456,000	254,000	189	130,000	178,000	144	69,200
13	392,000	379	402,000	259,000	196	137,000	181,000	141	68,700
14	448,000	473	574,000	272,000	260	192,000	175,000	135	63,800
15	488,000	590	779,000	322,000	371	324,000	169,000	128	58,500
16	491,000	618	819,000	388,000	525	552,000	163,000	128	56,200
17	459,000	583	723,000	429,000	807	936,000	158,000	146	62,400
18	423,000	506	579,000	435,000	1,040	1,220,000	151,000	124	50,500
19	385,000	430	448,000	424,000	1,050	1,210,000	143,000	125	48,200
20	356,000	352	338,000	408,000	824	908,000	142,000	130	49,900
21	338,000	326	298,000	388,000	695	729,000	144,000	141	54,900
22	328,000	295	261,000	360,000	615	599,000	141,000	130	49,400
23	317,000	266	228,000	333,000	521	469,000	142,000	158	61,000
24	300,000	253	205,000	317,000	437	375,000	151,000	222	90,700
25	286,000	246	190,000	300,000	423	343,000	152,000	176	72,300
26	282,000	220	168,000	280,000	294	223,000	149,000	179	72,000
27	274,000	208	154,000	263,000	257	182,000	151,000	180	73,500
28	261,000	190	134,000	256,000	249	172,000	156,000	164	69,000
29	251,000	180	122,000	---	---	---	152,000	155	63,800
30	244,000	213	140,000	---	---	---	149,000	141	56,800
31	239,000	165	107,000	---	---	---	155,000	139	58,100
TOTAL	10,581,000	---	13,838,400	8,032,000	---	9,677,300	5,335,000	---	2,273,300

MISSISSIPPI RIVER MAIN STEM

07022000 MISSISSIPPI RIVER AT THEBES, IL—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
1	162,000	147	64,700	251,000	364	247,000	195,000	193	102,000
2	172,000	147	68,200	244,000	317	209,000	189,000	181	92,400
3	177,000	152	72,300	234,000	272	172,000	182,000	169	83,200
4	185,000	149	74,000	222,000	249	149,000	178,000	156	74,700
5	197,000	154	81,700	215,000	247	143,000	176,000	149	70,900
6	206,000	163	90,400	209,000	236	133,000	173,000	133	62,000
7	206,000	172	95,400	196,000	224	119,000	173,000	122	57,100
8	203,000	165	90,500	179,000	213	103,000	201,000	155	85,100
9	203,000	163	89,400	164,000	201	89,200	261,000	383	275,000
10	206,000	153	85,400	155,000	189	79,300	282,000	804	612,000
11	209,000	147	83,200	152,000	177	72,700	278,000	804	605,000
12	218,000	158	93,400	149,000	164	65,900	283,000	809	619,000
13	231,000	190	119,000	149,000	168	67,400	292,000	832	655,000
14	250,000	198	134,000	150,000	167	67,500	288,000	759	590,000
15	281,000	250	190,000	160,000	158	68,300	304,000	708	581,000
16	309,000	293	245,000	177,000	160	76,300	332,000	824	741,000
17	324,000	380	332,000	199,000	184	99,200	343,000	1,060	981,000
18	320,000	571	492,000	254,000	365	256,000	325,000	1,110	977,000
19	301,000	541	440,000	273,000	834	615,000	298,000	884	713,000
20	279,000	399	301,000	260,000	1,020	713,000	280,000	647	489,000
21	261,000	310	219,000	247,000	966	644,000	263,000	522	370,000
22	260,000	283	199,000	239,000	857	553,000	250,000	467	315,000
23	263,000	304	215,000	235,000	622	395,000	242,000	380	248,000
24	268,000	282	204,000	232,000	491	308,000	234,000	332	210,000
25	282,000	303	231,000	224,000	409	247,000	230,000	294	183,000
26	280,000	275	208,000	218,000	338	198,000	224,000	265	160,000
27	277,000	295	221,000	222,000	298	178,000	220,000	250	149,000
28	276,000	430	321,000	222,000	275	164,000	214,000	227	131,000
29	271,000	486	356,000	212,000	285	163,000	208,000	209	117,000
30	263,000	422	300,000	204,000	240	132,000	206,000	181	101,000
31	---	---	---	199,000	212	114,000	---	---	---
TOTAL	7,340,000	---	5,715,600	6,446,000	---	6,640,800	7,324,000	---	10,449,400
		JULY			AUGUST			SEPTEMBER	
1	207,000	175	98,100	106,000	125	35,900	134,000	334	121,000
2	204,000	167	92,300	103,000	123	34,200	130,000	296	104,000
3	198,000	164	87,700	103,000	159	44,400	130,000	277	97,500
4	196,000	153	80,800	102,000	177	48,800	125,000	235	79,200
5	199,000	172	92,600	96,400	155	40,500	110,000	191	56,700
6	199,000	210	113,000	89,900	145	35,100	95,300	198	51,000
7	196,000	226	120,000	87,500	152	35,900	89,100	197	47,500
8	193,000	214	112,000	84,600	151	34,500	85,800	185	42,900
9	189,000	214	109,000	86,000	151	35,100	82,000	162	35,900
10	187,000	215	108,000	86,700	143	33,400	83,100	146	32,700
11	181,000	196	95,600	82,500	137	30,500	89,500	140	33,900
12	175,000	185	87,500	78,600	129	27,600	92,800	145	36,400
13	165,000	187	83,000	76,800	135	28,100	88,700	139	33,400
14	156,000	177	74,700	79,300	141	30,300	84,100	115	26,200
15	146,000	174	68,400	90,000	163	39,800	83,300	124	27,900
16	141,000	187	71,400	92,600	189	47,400	86,700	116	27,200
17	135,000	152	55,500	94,800	164	42,100	89,700	159	38,400
18	126,000	151	51,300	93,200	141	35,600	92,700	217	54,300
19	117,000	157	49,700	88,200	139	33,100	94,700	166	42,500
20	114,000	179	55,200	85,700	133	30,800	93,800	149	37,700
21	107,000	164	47,600	90,500	143	34,900	97,400	158	41,600
22	103,000	139	38,600	99,200	159	42,700	103,000	184	51,200
23	103,000	128	35,300	108,000	165	47,900	112,000	194	58,500
24	102,000	124	34,100	107,000	176	50,900	115,000	245	76,500
25	97,400	127	33,400	110,000	169	50,200	112,000	243	73,700
26	99,400	135	36,200	117,000	183	57,500	110,000	180	53,600
27	108,000	133	38,900	116,000	230	71,800	113,000	162	49,700
28	111,000	138	41,600	108,000	270	78,800	112,000	162	49,000
29	108,000	140	40,900	106,000	270	77,600	114,000	158	48,500
30	109,000	152	44,500	119,000	275	88,500	130,000	147	49,400
31	110,000	144	42,900	131,000	312	110,000	---	---	---
TOTAL	4,581,800	---	2,139,800	3,018,500	---	1,433,900	3,078,700	---	1,578,000

07035800 ST. FRANCIS RIVER NEAR MILL CREEK, MO

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

DRAINAGE AREA.--505 mi².

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

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

REMARKS.--No estimated daily discharges. Records fair. 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	3.0	333	4,520	235	250	308	461	368	28	10	20	52
2	2.6	3,080	1,950	239	245	283	387	320	27	12	16	41
3	2.3	1,300	1,220	256	262	264	341	288	24	18	12	33
4	2.7	945	876	391	273	255	309	260	22	18	10	28
5	4.5	683	707	6,180	257	247	285	240	18	32	11	23
6	5.4	488	909	9,690	252	234	265	221	15	28	14	20
7	5.9	389	3,720	2,720	302	223	257	201	14	25	11	18
8	8.1	319	2,330	1,740	440	214	250	186	14	21	9.4	16
9	13	272	1,400	1,310	524	203	233	173	14	19	8.6	16
10	22	244	1,040	1,060	499	193	219	162	18	19	8.1	14
11	33	3,680	807	909	434	185	217	150	32	23	7.9	12
12	54	3,870	669	814	392	178	328	139	39	63	9.9	10
13	58	1,490	569	13,200	759	167	519	122	42	133	17	9.4
14	69	856	480	5,980	1,520	159	622	143	39	181	30	31
15	80	602	422	2,080	1,010	151	473	196	28	108	214	77
16	53	481	393	1,330	725	146	383	176	25	69	1,420	156
17	49	409	371	941	555	141	331	135	21	44	791	246
18	49	368	344	734	473	134	296	112	16	33	399	189
19	38	667	323	637	414	130	268	97	12	33	259	130
20	28	834	299	583	389	126	252	91	11	64	185	104
21	25	619	284	514	372	122	310	80	9.6	134	138	147
22	25	509	285	446	340	207	673	78	8.7	95	121	170
23	35	498	273	380	315	2,110	842	81	8.2	63	102	113
24	53	2,530	223	331	339	1,750	516	71	7.7	45	84	78
25	120	3,880	203	315	365	1,140	398	61	8.0	34	67	82
26	89	1,570	193	306	358	1,070	371	49	9.3	26	221	168
27	615	1,040	188	287	334	1,930	384	40	9.5	24	327	259
28	1,950	823	183	261	321	1,870	361	36	8.9	21	187	200
29	565	1,040	191	261	---	1,090	398	32	8.2	17	120	267
30	350	4,920	223	274	---	766	411	28	8.2	15	90	294
31	268	---	237	265	---	585	---	28	---	23	65	---
MEAN	151	1,291	833	1,764	454	535	379	141	18.2	46.8	160	100
MAX	1,950	4,920	4,520	13,200	1,520	2,110	842	368	42	181	1,420	294
MIN	2.3	244	183	235	245	122	217	28	7.7	10	7.9	9.4
IN.	0.34	2.85	1.90	4.03	0.94	1.22	0.84	0.32	0.04	0.11	0.37	0.22

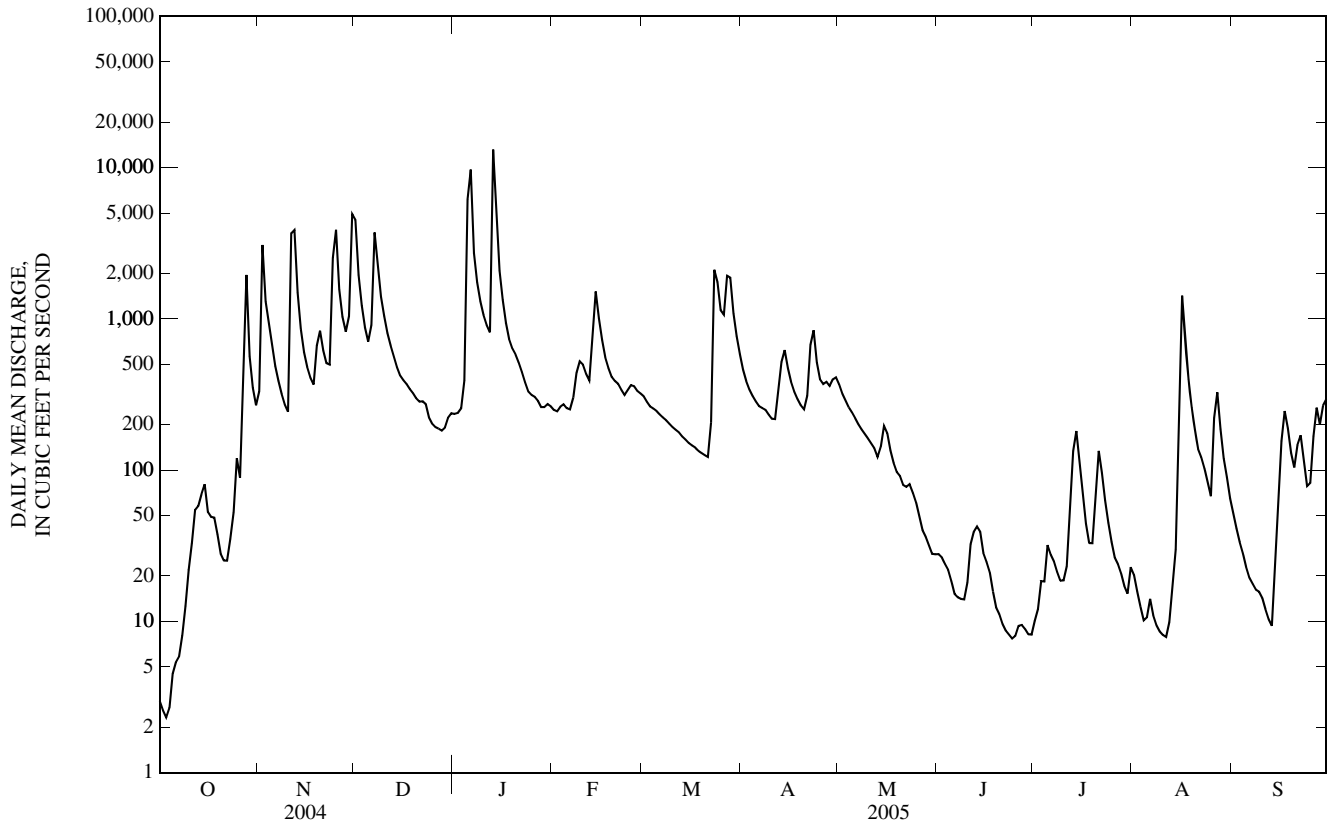
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	88.2	791	804	829	823	861	1,014	1,077	288	87.9	78.8	112
MAX	438	3,774	2,428	2,187	1,745	1,936	2,890	4,927	899	200	201	1,153
(WY)	(1994)	(1994)	(1991)	(1993)	(1989)	(2002)	(1994)	(2002)	(1997)	(2001)	(2002)	(1993)
MIN	12.9	23.9	32.7	141	153	304	159	64.5	16.4	26.0	4.18	10.9
(WY)	(2001)	(2000)	(1990)	(2000)	(1996)	(2001)	(2000)	(1987)	(1988)	(2004)	(1988)	(2004)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	560		490		580	
HIGHEST ANNUAL MEAN					949	
LOWEST ANNUAL MEAN					194	
HIGHEST DAILY MEAN	8,350	Mar 5	13,200	Jan 13	72,000	Nov 14, 1993
LOWEST DAILY MEAN	1.5	Sep 22-24	2.3	Oct 3	1.5	Sep 22, 2004
ANNUAL SEVEN-DAY MINIMUM	1.6	Sep 21	3.8	Oct 1	1.6	Sep 21, 2004
MAXIMUM PEAK FLOW	---		18,600	Jan 13	130,000 ^a	Nov 14, 1993
MAXIMUM PEAK STAGE	---		14.76	Jan 13	33.10	Nov 14, 1993
INSTANTANEOUS LOW FLOW	---		2.1	Oct 3,4	1.4	Sep 21, 2004
ANNUAL RUNOFF (INCHES)	15.11		13.18		15.61	
10 PERCENT EXCEEDS	1,290		1,040		1,130	
50 PERCENT EXCEEDS	297		214		190	
90 PERCENT EXCEEDS	4.6		14		16	

^a Discharge determined by indirect measurement of peak flow.

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



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

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

DRAINAGE AREA.--664 mi².

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 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 23...	0840	Environmental	767	9.2	88	7.2	191	12.3	88	18.0	10.4	2.04		
JAN 25...	0915	Environmental	614	13.5	100	7.8	190	2.4	--	--	--	--		
MAR 15...	0930	Environmental	293	11.4	96	8.2	227	7.6	--	--	--	--		
MAY 17...	1145	Environmental	266	8.4	96	7.7	230	20.7	100	19.8	12.3	1.68		
JUL 19...	0930	Environmental	129	7.6	97	7.5	284	27.2	--	--	--	--		
SEP 06...	1150	Environmental	81	6.4	78	6.8	274	25.0	--	--	--	--		
Date		ANC, wat unfltrd, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, mg/L (00450)	Carbonate, wat unfltrd, 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 as N (00530)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	
NOV 23...	5.45	73	72	88	<1	6.30	E.1n	13.1	109	<10	.20	<.04	.32	
JAN 25...	--	--	--	--	--	--	--	--	--	<10	.11	<.04	.59	
MAR 15...	--	--	--	--	--	--	--	--	--	<10	.21	<.04	<.06	
MAY 17...	5.96	88	89	108	<1	5.95	E.1n	13.1	119	<10	.27	<.04	<.06	
JUL 19...	--	--	--	--	--	--	--	--	--	<10	.29	<.04	<.06	
SEP 06...	--	--	--	--	--	--	--	--	--	<10	.26	<.04	E.03n	
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 23...	<.008	<.02	E.02n	.04	32	40	3	23	.3	<.04	<.04	.8	14	
JAN 25...	<.008	E.01n	<.04	E.03n	13k	18k	--	--	--	--	--	--	--	
MAR 15...	<.008	<.02	<.04	<.04	1k	4k	--	--	--	--	--	--	--	
MAY 17...	<.008	--u	<.04	<.04	12k	30	E.1n	34	.4	<.04	<.04	.8	17	
JUL 19...	<.008	<.02	<.04	<.04	360	500k	--	--	--	--	--	--	--	
SEP 06...	<.008	<.09d	.04	.04	7k	12k	--	--	--	--	--	--	--	

07036100 ST. FRANCIS RIVER NEAR SACO, MO—Continued

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

Date	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV 23...	.30	<.06	13.0	E.01n	<.4	.7	<2
JAN 25...	--	--	--	--	--	--	--
MAR 15...	--	--	--	--	--	--	--
MAY 17...	.40	3.12	11.4	<.01	<.4	E.4n	<2
JUL 19...	--	--	--	--	--	--	--
SEP 06...	--	--	--	--	--	--	--

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

Null value qualifier codes used in this table:

u -- Unable to determine-matrix interference

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

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

Date	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV 22...	<.08	.07	<.6	E.01n	<.4	<.6	E1n
22...	<.08	.07	1.9	E.01n	<.4	.6	<2
JAN 24...	--	--	--	--	--	--	--
MAR 14...	--	--	--	--	--	--	--
MAY 17...	<.08	.16	4.4	<.01	<.4	.8	E2n
JUL 18...	--	--	--	--	--	--	--
SEP 06...	--	--	--	--	--	--	--

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

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

Null value qualifier codes used in this table:

u -- Unable to determine-matrix interference

07037500 ST. FRANCIS RIVER NEAR PATTERSON, MO

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

DRAINAGE AREA.--956 mi².

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

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

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

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	445	9,210	395	520	660	1,260	792	123	59	62	126
2	46	1,460	4,950	403	510	624	1,040	715	118	53	57	110
3	46	3,220	2,930	505	512	582	892	631	116	51	54	97
4	48	1,750	2,100	638	511	548	782	565	113	51	53	89
5	48	1,420	1,690	2,410	518	521	701	507	108	58	51	80
6	47	1,100	1,710	16,200	501	495	648	458	102	62	50	73
7	47	851	3,720	8,440	558	475	614	419	99	63	52	68
8	49	691	5,990	3,790	686	446	580	383	96	64	60	64
9	53	574	3,310	2,810	937	425	542	354	98	63	55	60
10	54	489	2,370	2,210	1,040	405	502	331	100	61	53	57
11	60	1,090	1,860	1,870	989	381	506	306	101	69	50	53
12	90	7,280	1,540	1,650	898	365	717	281	100	119	47	51
13	98	3,780	1,310	10,400	1,120	346	1,010	258	97	139	46	49
14	104	2,100	1,120	19,400	2,260	330	1,190	381	100	132	50	59
15	141	1,470	955	5,550	2,440	314	1,180	356	97	154	52	96
16	145	1,130	844	3,280	1,860	301	986	330	93	188	64	120
17	146	926	765	2,380	1,490	288	839	314	91	162	1,170	124
18	134	802	704	1,860	1,250	277	737	284	87	148	750	172
19	143	894	643	1,570	1,090	268	653	257	81	156	439	259
20	136	1,350	590	1,400	969	259	593	239	77	152	325	230
21	124	1,410	545	1,260	931	252	646	221	74	159	260	189
22	115	1,160	519	1,110	855	313	852	213	70	152	248	162
23	139	996	505	960	777	794	1,360	205	67	156	198	154
24	166	1,190	468	840	742	2,980	1,360	193	65	143	170	169
25	158	5,840	411	755	737	2,160	1,050	182	62	120	150	168
26	152	3,810	375	702	745	1,810	916	172	59	102	152	174
27	183	2,310	352	655	724	2,140	827	162	57	88	174	171
28	879	1,810	334	604	696	3,970	802	153	54	81	225	196
29	1,480	1,700	329	571	---	2,710	819	144	54	77	246	263
30	765	5,670	337	548	---	1,930	823	136	55	71	189	283
31	522	---	364	538	---	1,530	---	129	---	65	150	---
MEAN	205	1,957	1,705	3,087	960	932	848	325	87.1	104	184	132
MAX	1,480	7,280	9,210	19,400	2,440	3,970	1,360	792	123	188	1,170	283
MIN	46	445	329	395	501	252	502	129	54	51	46	49
IN.	0.25	2.28	2.06	3.72	1.05	1.12	0.99	0.39	0.10	0.13	0.22	0.15

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

MEAN	346	1,042	1,324	1,473	1,578	2,105	2,334	1,813	894	318	212	240
MAX	3,391	6,214	12,380	6,725	4,577	6,981	9,221	10,490	8,724	2,513	1,478	2,103
(WY)	(1985)	(1994)	(1983)	(1950)	(1951)	(1945)	(1927)	(2002)	(1928)	(1957)	(1985)	(1965)
MIN	29.0	48.1	60.9	64.9	125	178	287	139	33.6	21.3	11.2	14.8
(WY)	(1954)	(1954)	(1954)	(1956)	(1963)	(1941)	(1981)	(1930)	(1936)	(1936)	(1936)	(1955)

SUMMARY STATISTICS

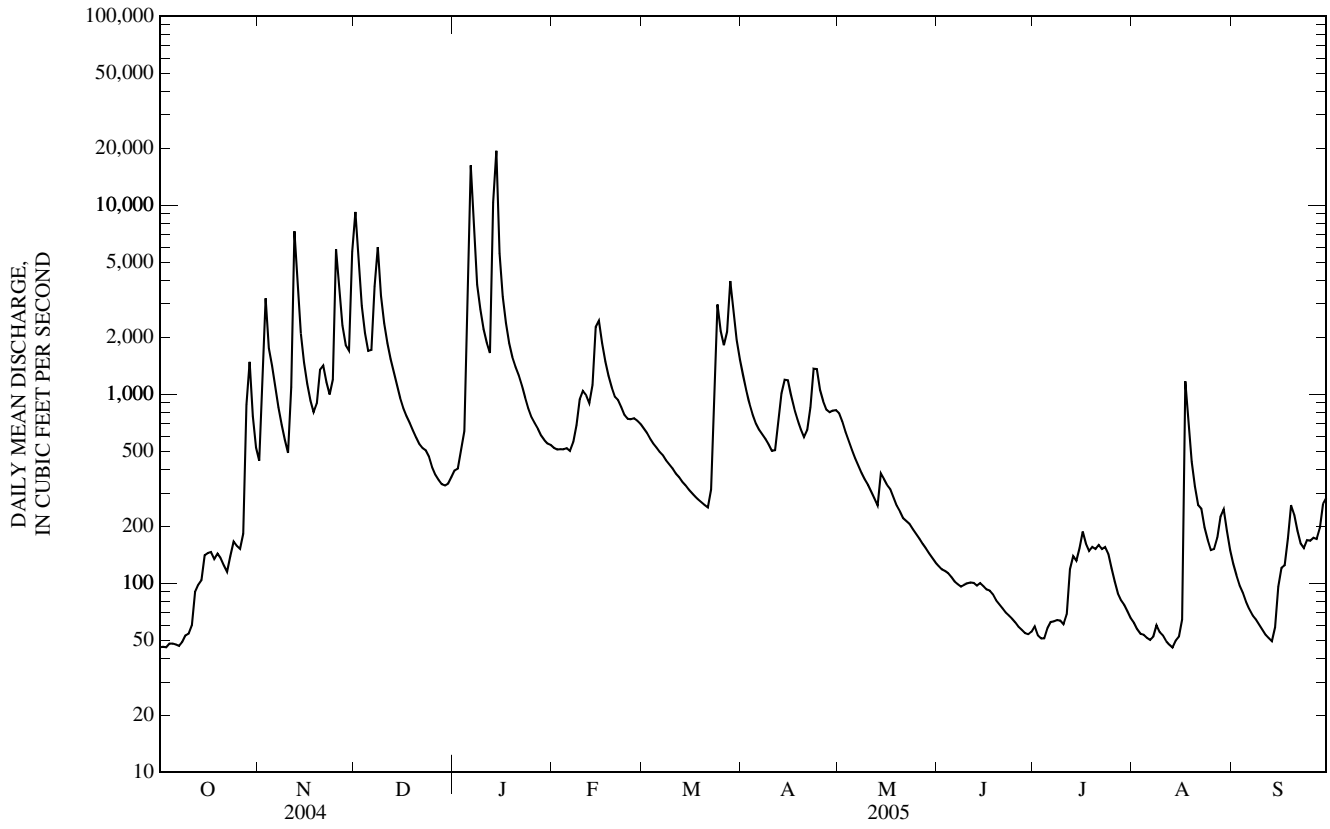
FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

FOR PERIOD OF RECORD

ANNUAL MEAN	1,127	878	1,137
HIGHEST ANNUAL MEAN			2,731
LOWEST ANNUAL MEAN			343
HIGHEST DAILY MEAN	17,100	Mar 5	107,000
LOWEST DAILY MEAN	46	Sep 29-Oct 3	8.0
ANNUAL SEVEN-DAY MINIMUM	47	Sep 28	8.4
MAXIMUM PEAK FLOW	---	25,300	155,000 ^a
MAXIMUM PEAK STAGE	---	19.43	35.77
INSTANTANEOUS LOW FLOW	---	43	8.0
ANNUAL RUNOFF (INCHES)	16.05	12.47	16.16
10 PERCENT EXCEEDS	2,630	1,860	2,320
50 PERCENT EXCEEDS	606	364	342
90 PERCENT EXCEEDS	79	59	54

^a Discharge determined by indirect measurement of peak flow.



07039000 WAPPAPELLO LAKE AT WAPPAPELLO, MO

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

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

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

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

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

COOPERATION.--Records furnished by the U.S. Army Corps of Engineers.

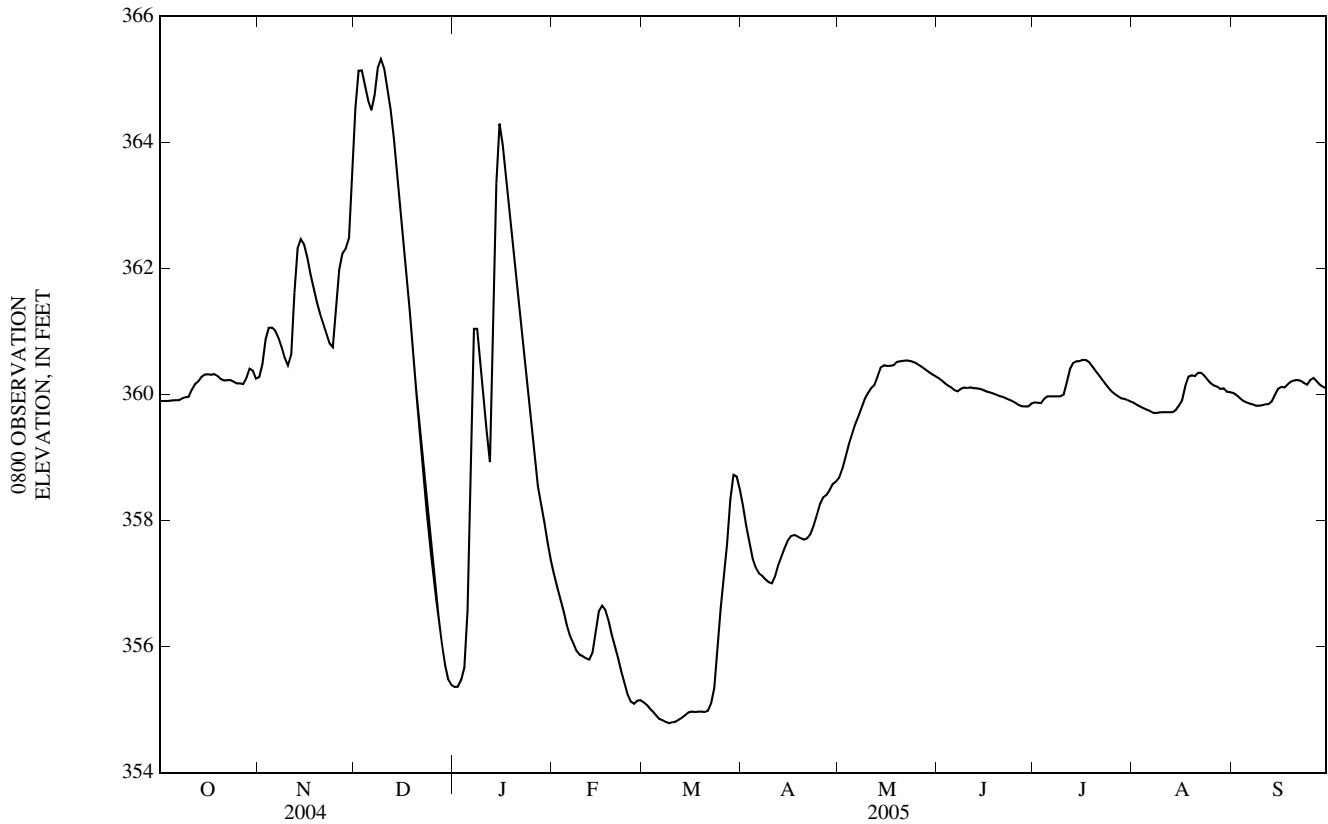
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 729,800 ac-ft, Apr. 16, 1945, elevation, 399.35 ft; minimum, since initial filling to conservation pool level, 23,340 ac-ft, Mar. 1-3, 1970; elevation, 352.20 ft, Sept. 26-27, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 113,000 ac-ft, Dec. 9, 10, elevation, 365.35 ft, Dec. 9; minimum, 30,000 ac-ft, March 10, elevation, 354.76 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	359.87	360.21	363.73	355.38	357.29	355.14	358.41	358.62	360.28	359.88	359.88	360.05
2	359.91	360.31	364.95	355.35	357.08	355.10	358.13	358.71	360.25	359.87	359.86	360.01
3	359.89	360.57	365.23	355.37	356.88	355.06	357.80	358.88	360.21	359.87	359.82	359.98
4	359.90	361.03	365.10	355.52	356.70	354.99	357.57	359.08	360.16	359.86	359.80	359.93
5	359.90	361.07	364.82	355.74	356.50	354.95	357.31	359.27	360.13	359.97	359.77	359.89
6	359.91	361.06	364.59	356.99	356.27	354.88	357.22	359.42	360.10	359.97	359.75	359.87
7	359.91	360.99	364.47	360.51	356.13	354.83	357.13	359.58	360.05	359.97	359.73	359.85
8	359.91	360.86	364.89	361.31	356.02	354.83	357.12	359.69	360.05	359.97	359.70	359.84
9	359.95	360.70	365.33	360.91	355.89	354.79	357.04	359.84	360.11	359.97	359.71	359.81
10	359.96	360.52	365.32	360.40	355.86	354.78	357.01	359.97	360.11	359.97	359.72	359.83
11	359.97	360.43	365.10	359.85	355.84	354.81	357.00	360.05	360.10	360.01	359.72	359.83
12	360.13	360.73	364.75	359.18	355.80	354.81	357.17	360.13	360.12	360.28	359.72	359.85
13	360.18	362.06	364.41	358.80	355.79	354.86	357.35	360.16	360.09	360.46	359.72	359.85
14	360.22	362.45	363.91	361.35	355.96	354.88	357.47	360.35	360.10	360.52	359.72	359.91
15	360.31	362.47	363.35	364.35	356.39	354.93	357.61	360.47	360.08	360.53	359.77	360.04
16	360.32	362.34	362.79	364.27	356.65	354.97	357.72	360.46	360.06	360.53	359.85	360.12
17	360.32	362.10	362.22	363.80	356.65	354.97	357.77	360.45	360.04	360.56	359.94	360.12
18	360.31	361.82	361.66	363.23	356.55	354.96	357.77	360.46	360.03	360.54	360.23	360.11
19	360.33	361.63	361.15	362.68	356.35	354.97	357.74	360.47	360.01	360.50	360.31	360.19
20	360.28	361.39	360.39	362.18	356.11	354.97	357.71	360.54	359.99	360.42	360.30	360.21
21	360.23	361.23	359.91	361.76	355.95	354.96	357.69	360.52	359.97	360.35	360.29	360.23
22	360.22	361.07	359.47	361.34	355.75	354.99	357.73	360.54	359.96	360.29	360.37	360.23
23	360.23	360.91	358.96	360.79	355.53	355.15	357.81	360.54	359.93	360.22	360.33	360.21
24	360.23	360.76	358.42	360.19	355.36	355.44	357.97	360.53	359.91	360.15	360.28	360.17
25	360.19	360.75	357.90	359.74	355.18	356.26	358.14	360.51	359.89	360.09	360.21	360.15
26	360.17	361.77	357.36	359.27	355.10	356.78	358.32	360.49	359.86	360.03	360.16	360.27
27	360.18	362.09	356.79	358.79	355.09	357.23	358.39	360.45	359.82	360.00	360.13	360.26
28	360.16	362.31	356.31	358.41	355.17	357.83	358.41	360.42	359.81	359.96	360.12	360.19
29	360.31	362.32	355.91	358.18	---	358.57	358.52	360.38	359.81	359.93	360.07	360.14
30	360.46	362.56	355.62	357.87	---	358.80	358.61	360.34	359.81	359.93	360.11	360.11
31	360.34	---	355.41	357.55	---	358.65	---	360.31	---	359.90	360.01	---
MEAN	360.14	361.35	361.62	359.71	356.07	355.59	357.72	360.05	360.03	360.15	359.97	360.04
MAX	360.46	362.56	365.33	364.35	357.29	358.80	358.61	360.54	360.28	360.56	360.37	360.27
MIN	359.87	360.21	355.41	355.35	355.09	354.78	357.00	358.62	359.81	359.86	359.70	359.81

07039000 WAPPAPELLO LAKE AT WAPPAPELLO, MO—Continued



RESERVOIR STORAGE, ACRE 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	61,800	64,600	97,000	32,800	43,700	31,600	51,200	52,600	65,200	61,900	61,900	63,200
2	62,100	65,500	109,000	32,700	42,300	31,400	49,200	53,300	65,000	61,800	61,700	62,900
3	62,000	67,700	112,000	32,700	41,100	31,200	47,000	54,500	64,600	61,800	61,500	62,700
4	62,000	71,700	111,000	33,500	40,000	30,900	45,500	55,900	64,200	61,700	61,300	62,300
5	62,000	72,000	108,000	34,600	38,800	30,700	43,800	57,300	63,900	62,600	61,100	62,000
6	62,100	71,900	106,000	41,700	37,500	30,400	43,200	58,500	63,700	62,600	60,900	61,800
7	62,100	71,300	104,000	67,200	36,700	30,300	42,600	59,600	63,200	62,600	60,800	61,700
8	62,100	70,200	109,000	74,200	36,000	30,300	42,600	60,500	63,200	62,600	60,600	61,600
9	62,400	68,800	113,000	70,600	35,400	30,100	42,100	61,600	63,700	62,600	60,600	61,400
10	62,500	67,300	113,000	66,200	35,200	30,100	41,900	62,600	63,700	62,600	60,700	61,500
11	62,600	66,500	111,000	61,700	35,100	30,200	41,800	63,200	63,700	62,900	60,700	61,500
12	63,900	69,100	107,000	56,600	34,900	30,200	42,900	63,900	63,800	65,200	60,700	61,700
13	64,300	81,100	104,000	53,900	34,900	30,400	44,100	64,200	63,600	66,800	60,700	61,700
14	64,700	84,700	98,700	74,600	35,700	30,400	44,900	65,800	63,700	67,300	60,700	62,100
15	65,500	84,900	93,300	103,000	38,200	30,600	45,800	66,800	63,500	67,400	61,100	63,100
16	65,600	83,700	87,900	102,000	39,700	30,800	46,500	66,800	63,300	67,400	61,700	63,800
17	65,600	81,400	82,600	97,700	39,700	30,800	46,800	66,700	63,100	67,600	62,400	63,800
18	65,500	78,900	77,400	92,100	39,100	30,700	46,800	66,800	63,100	67,400	64,800	63,700
19	65,600	77,100	72,800	86,900	38,000	30,800	46,600	66,800	62,900	67,100	65,500	64,400
20	65,200	74,900	66,200	82,200	36,500	30,800	46,400	67,400	62,700	66,400	65,400	64,600
21	64,800	73,500	62,100	78,300	35,700	30,700	46,300	67,300	62,600	65,800	65,300	64,800
22	64,700	72,000	58,800	74,500	34,600	30,900	46,500	67,400	62,500	65,300	66,000	64,800
23	64,800	70,600	55,000	69,600	33,500	31,600	47,100	67,400	62,300	64,700	65,600	64,600
24	64,800	69,300	51,200	64,400	32,700	33,100	48,100	67,400	62,100	64,100	65,200	64,300
25	64,400	69,200	47,600	60,800	31,800	37,400	49,300	67,200	62,000	63,600	64,600	64,100
26	64,300	78,400	44,100	57,300	31,400	40,500	50,500	67,000	61,700	63,100	64,200	65,100
27	64,300	81,300	40,600	53,800	31,300	43,300	51,000	66,700	61,500	62,800	63,900	65,000
28	64,200	83,400	37,700	51,200	31,800	47,200	51,200	66,400	61,400	62,500	63,800	64,400
29	65,500	83,500	35,500	49,600	---	52,300	51,900	66,100	61,400	62,300	63,400	64,000
30	66,800	85,800	34,000	47,500	---	53,900	52,600	65,700	61,400	62,300	63,700	63,700
31	65,700	---	33,000	45,400	---	52,800	---	65,500	---	62,000	62,900	---
MEAN	64,000	74,700	80,100	62,900	36,500	34,400	46,500	63,500	63,100	64,100	62,700	63,200
MAX	66,800	85,800	113,000	103,000	43,700	53,900	52,600	67,400	65,200	67,600	66,000	65,100
MIN	61,800	64,600	33,000	32,700	31,300	30,100	41,800	52,600	61,400	61,700	60,600	61,400

07039500 ST. FRANCIS RIVER AT WAPPAPELLO, MO

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

DRAINAGE AREA.--1,311 mi².

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

REVISED RECORDS.--WSP 1211: Drainage area.

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

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	1,150	3,410	935	1,660	1,010	2,690	798	321	51	154	156
2	50	1,160	3,570	927	1,540	1,010	2,530	556	320	49	155	293
3	50	1,160	3,680	953	1,500	1,010	2,170	162	319	50	155	299
4	50	1,280	3,820	1,090	1,420	1,000	1,900	65	318	e49	155	299
5	49	1,450	3,820	1,600	1,400	950	1,670	60	316	48	155	241
6	49	1,460	3,820	2,980	1,390	893	1,290	58	313	50	155	168
7	50	1,440	3,840	4,650	1,390	849	1,160	57	250	49	155	166
8	50	1,430	3,840	5,610	1,380	791	1,040	57	170	48	109	167
9	50	1,370	3,860	5,870	1,370	747	936	58	168	e49	51	121
10	50	1,250	3,870	5,580	1,370	659	766	56	166	e49	50	50
11	52	1,180	3,850	5,210	1,360	550	701	107	169	50	e49	45
12	51	1,200	3,810	4,940	1,360	456	709	173	167	56	48	42
13	50	1,360	3,840	4,900	1,380	448	788	175	166	48	50	39
14	51	1,650	3,940	5,550	1,450	449	962	245	165	90	50	38
15	113	1,910	3,950	6,300	1,740	447	1,030	391	163	216	50	39
16	194	2,140	3,900	6,390	2,110	448	1,040	474	162	308	51	87
17	198	2,260	3,770	6,090	2,150	441	1,040	445	162	301	94	162
18	199	2,240	3,580	5,640	2,140	437	1,040	343	162	358	222	169
19	295	2,230	3,520	4,970	2,120	435	1,030	333	161	499	370	203
20	429	2,210	3,380	4,370	2,100	433	1,030	332	161	503	451	243
21	401	2,200	3,120	3,910	2,080	433	1,040	331	160	504	455	244
22	368	2,160	2,960	3,690	2,000	438	1,030	334	159	502	468	271
23	374	2,020	2,830	3,610	1,830	440	939	332	159	499	460	320
24	372	1,900	2,650	3,480	1,670	514	886	330	159	498	458	323
25	368	1,830	2,580	3,220	1,520	672	823	328	161	445	457	332
26	368	1,900	2,530	2,960	1,260	688	827	328	159	323	458	330
27	372	1,950	2,350	2,630	1,080	705	826	327	134	307	457	382
28	462	1,960	1,990	2,270	1,020	926	825	328	87	244	456	454
29	856	2,140	1,750	2,020	---	1,450	827	327	54	158	454	457
30	1,010	2,830	1,510	1,980	---	2,060	830	324	52	154	451	424
31	1,140	---	1,140	1,880	---	2,680	---	322	---	154	264	---
MEAN	265	1,747	3,241	3,749	1,600	789	1,146	276	186	216	244	219
MAX	1,140	2,830	3,950	6,390	2,150	2,680	2,690	798	321	504	468	457
MIN	49	1,150	1,140	927	1,020	433	701	56	52	48	48	38
IN.	0.23	1.49	2.85	3.30	1.27	0.69	0.98	0.24	0.16	0.19	0.21	0.19

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

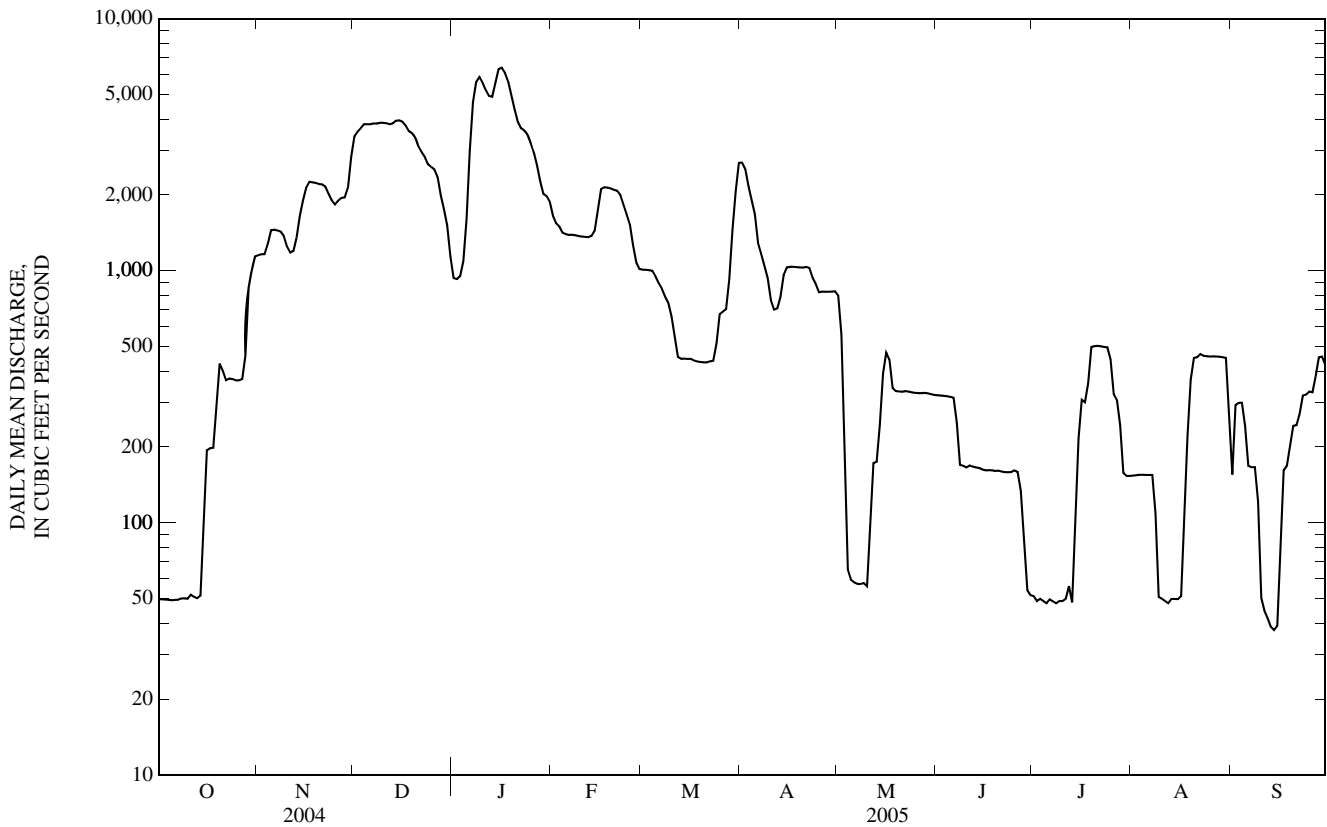
MEAN	406	951	2,053	2,376	2,334	2,701	2,790	2,544	1,486	693	376	384
MAX	3,239	4,959	8,897	8,867	7,796	7,072	11,920	9,243	6,442	4,866	3,385	2,239
(WY)	(1950)	(1952)	(1983)	(1950)	(1949)	(1979)	(1945)	(1983)	(2002)	(1945)	(1945)	(1982)
MIN	33.9	43.8	167	188	286	474	63.5	62.3	6.00	87.1	40.0	34.0
(WY)	(1949)	(1954)	(1990)	(1981)	(1963)	(1981)	(1981)	(1987)	(1978)	(1980)	(1965)	(1955)

07039500 ST. FRANCIS RIVER AT WAPPAPELLO, MO—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		FOR PERIOD OF RECORD ^a	
ANNUAL MEAN	1,470		1,140		1,588	
HIGHEST ANNUAL MEAN					3,534	1985
LOWEST ANNUAL MEAN					579	1954
HIGHEST DAILY MEAN	6,440	Mar 8	6,390	Jan 16	21,800	Apr 16, 1945
LOWEST DAILY MEAN	49	Oct 5.6	38	Sep 14	0.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	50	Sep 30	49	Sep 10	0.00	At Times
MAXIMUM PEAK FLOW	---		6,490	Jan 16	22,300	Apr 16, 1945
MAXIMUM PEAK STAGE	---		25.63	Jan 16	31.44	May 17, 2002
INSTANTANEOUS LOW FLOW	---		33	Sep 14	0.00	Several Years
ANNUAL RUNOFF (INCHES)	15.26		11.80		16.45	
10 PERCENT EXCEEDS	3,820		3,440		4,060	
50 PERCENT EXCEEDS	1,140		462		686	
90 PERCENT EXCEEDS	182		51		46	

e Estimated

^a Post-regulation period, water years 1942-1977 and 1999-2005.



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

LOCATION.--Lat 36°40'26", long 89°28'30", in NE ¼ NE ¼ NW ¼ sec.6, T.23 N., R.15 E., Madrid County, Hydrologic Unit 08020204, located approximately 2.5 mi east of Interstate 55 on State Highway P, and 4.0 mi south of Henderson Mound.

DRAINAGE AREA.--313 mi².

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 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, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	
NOV 02...	1320	Environmental	1,110	6.6	71	6.6	115	18.4	47	13.9	3.06	5.22	
FEB 14...	1340	Environmental	918	8.3	79	7.3	198	12.9	87	26.5	4.94	1.93	
MAR 14...	1330	Environmental	320	8.6	79	7.7	267	10.9	--	--	--	--	
MAY 10...	1130	Environmental	288	7.7	86	7.7	273	20.5	130	39.3	7.10	1.44	
JUL 18...	1320	Environmental	487	5.9	75	7.6	160	26.6	70	21.8	3.84	2.76	
SEP 13...	1420	Environmental	59	7.8	101	7.6	281	27.7	--	--	--	--	
Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd, mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)
NOV 02...	1.77	34	36	44	<1	3.92	E.1n	7.4	74	96d	1.2	<.04	.35
FEB 14...	3.67	60	60	73	<1	6.25	.2	13.4	120	137d	.88	<.04	.66
MAR 14...	--	--	--	--	--	--	--	--	--	<10	.12	<.04	.17
MAY 10...	5.95	100	101	123	<1	8.45	.1	17.5	175	41	.32	<.04	.28
JUL 18...	2.79	53	52	63	<1	4.54	.2	11.1	97	82	.71	<.04	.72
SEP 13...	--	--	--	--	--	--	--	--	--	13	.22	<.04	.52
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 02...	.022	.19	.33	.62	3,200	6,100k	3	1,470d	2.2	<.04	.06	1.8	46
FEB 14...	E.007n	.06	.10	.40	270	370	E1n	2,580d	1.5	<.04	.07	1.7	8
MAR 14...	<.008	.08	.10	.18	16k	24	--	--	--	--	--	--	--
MAY 10...	E.006n	.06	.12	.34	400	590k	<2	500	2.0	<.04	E.04n	.5	14
JUL 18...	.026	.13	.19	.39	520	660	8	1,030	2.5	<.04	.05	1.7	7
SEP 13...	.010	.24	.24	.31	89k	35	--	--	--	--	--	--	--

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

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

Date	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover-able, µg/L (01051)	Mangan-ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover-able, µg/L (71900)	Selen-ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover-able, µg/L (01092)	2,6-Di-ethyl-aniline water fltrd 0.7µ GF (82660)	CIAT, water, fltrd, µg/L (04040)	Aceto-chlor, water, fltrd, µg/L (49260)	Ala-chlor, water, fltrd, µg/L (46342)	alpha-HCH, water, fltrd, µg/L (34253)	Atra-zine, water, fltrd, µg/L (39632)
NOV 02...	E.04n	2.87	178	E.01n	<.4	2.2	12	<.006	E.010	<.010	<.010	<.005	.250
FEB 14...	<.08	3.00	79.8	.01	E.2n	.9	19	--	--	--	--	--	--
MAR 14...	--	--	--	--	--	--	--	<.006	<.006m	<.006	<.005	<.005	E.004t
MAY 10...	<.08	1.22	44.5	<.01	<.4	.8	5	<.006	E.007m	.007	.009	<.005	.227
JUL 18...	E.05n	1.97	12.6	.01	<.4	1.7	9	<.006	E.088m	<.006	.038	<.005	1.56
SEP 13...	--	--	--	--	--	--	--	<.006	<.006m	<.006	<.005	<.005	.015
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-pyrifos water, fltrd, µg/L (38933)	cis-Per-methrin water fltrd 0.7µ GF µg/L (82687)	Cyana-zine, water, fltrd, µg/L (04041)	DCPA, water fltrd 0.7µ GF µg/L (82682)	Diazi-non, water, fltrd, µg/L (39572)	Diel-drin, water, fltrd, µg/L (39381)	Disul-foton, water, fltrd 0.7µ GF µg/L (82677)	EPTC, water, fltrd 0.7µ GF µg/L (82668)
NOV 02...	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.005	<.02	<.002
FEB 14...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 14...	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004
MAY 10...	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004
JUL 18...	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004
SEP 13...	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.011
Date	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 parathion, water, fltrd 0.7µ GF µg/L (82667)	Metola-chlor, water, fltrd, µg/L (39415)	Metri-buzin, water, fltrd, µg/L (82630)	Moli-nate, water, fltrd 0.7µ GF µg/L (82671)	Naprop-amide, water, fltrd 0.7µ GF µg/L (82684)	p,p'-DDE, water, fltrd, µg/L (34653)	Para-thion, water, fltrd, µg/L (39542)
NOV 02...	<.009	<.005	<.003	<.004	<.035	<.027	<.006	.261	<.006	<.002	<.007	<.003	<.010
FEB 14...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 14...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.007	<.006	<.003	<.007	<.003	<.010
MAY 10...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.041	<.006	.004	<.007	<.003	<.010
JUL 18...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.252	<.006	.010	<.007	<.003	<.010
SEP 13...	<.009	<.005	<.003	<.004	<.035	.032	<.015	E.005n	<.006	<.003	<.007	<.003	<.010

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

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

Date	Peb- ulate, water, fltrd 0.7µ GF µg/L (82669)	Pendi- meth- alin, water, fltrd 0.7µGF µg/L (82683)	Phorate water fltrd 0.7µ GF µg/L (82664)	Prome- ton, water, fltrd, µg/L (04037)	Propy- zamide, water, fltrd 0.7µ GF µg/L (82676)	Propa- chlor, water, fltrd, µg/L (04024)	Pro- panil, water, fltrd 0.7µ GF µg/L (82679)	Propar- gite, water, fltrd 0.7µGF µg/L (82685)	Sima- zine, water, fltrd, µg/L (04035)	Tebu- thiuron water fltrd 0.7µ GF µg/L (82670)	Terba- cil, water, fltrd 0.7µ GF µg/L (82665)	Terbu- fos, water, fltrd 0.7µ GF µg/L (82675)	Thio- bencarb water fltrd 0.7µ GF µg/L (82681)
NOV 02...	<.004	<.022	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005
FEB 14...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 14...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034m	<.02	<.010
MAY 10...	<.004	E.013n	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034m	<.02	<.010
JUL 18...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.013	<.02	<.034m	<.02	<.010
SEP 13...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034m	<.02	<.010

Date	Tri- allate, water, fltrd 0.7µ GF µg/L (82678)	Tri- flur- alin, water, fltrd 0.7µ GF µg/L (82661)
NOV 02...	<.002	<.009
FEB 14...	--	--
MAR 14...	<.006	<.009
MAY 10...	<.006	<.009
JUL 18...	<.006	<.009
SEP 13...	<.006	<.009

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

07043500 LITTLE RIVER DITCH 1 NEAR MOREHOUSE, MO

LOCATION.--Lat 36°50'04", long 89°43'48", in SW ¼ SE ¼ sec.2, T.25 N., R.12 E., Stoddard County, Hydrologic Unit 08020204, on downstream side of second pier right of left abutment of bridge on State Highway 114, 1.5 mi downstream from Little River Ditch 39, and 2.0 mi west of Morehouse.

DRAINAGE AREA.--450 mi².

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

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

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	106	2,530	1,320	239	331	985	490	111	62	93	99
2	41	1,580	1,390	1,740	236	313	593	332	114	65	87	91
3	41	1,050	821	2,240	238	302	401	290	116	59	82	100
4	41	536	519	2,640	236	299	339	267	105	54	68	81
5	40	373	404	3,100	234	282	316	252	92	62	66	67
6	41	257	949	6,130	234	274	296	239	81	75	63	68
7	42	190	2,240	4,370	457	282	449	231	81	69	63	75
8	44	149	2,010	2,600	1,100	270	462	231	70	61	91	57
9	46	131	1,090	1,920	889	257	355	230	84	55	80	61
10	46	119	669	1,260	613	259	309	220	89	45	71	58
11	49	139	466	846	476	254	288	203	202	169	62	59
12	53	1,050	383	652	412	254	797	194	417	2,550	53	50
13	52	698	326	2,940	691	238	806	208	267	3,010	55	49
14	53	434	288	4,380	1,520	230	565	399	141	1,550	55	46
15	56	288	270	2,240	1,080	223	389	1,010	102	943	68	82
16	53	212	261	1,490	722	223	323	523	87	825	95	214
17	51	178	251	931	531	223	292	357	87	870	126	170
18	57	159	245	600	457	222	279	284	79	382	133	142
19	55	288	232	488	407	219	276	245	74	249	121	132
20	52	318	224	447	413	208	267	220	73	295	106	111
21	52	262	227	414	434	206	259	206	72	335	96	107
22	53	216	e234	391	616	222	893	202	68	221	106	93
23	57	220	e344	358	561	239	1,260	189	65	175	111	80
24	57	278	e523	338	470	246	521	176	67	159	125	76
25	59	323	e374	324	402	266	367	169	64	142	120	93
26	59	288	e272	304	359	236	331	161	58	131	89	146
27	69	386	236	279	341	291	350	157	56	120	95	143
28	89	581	235	266	338	1,170	319	143	54	115	177	135
29	75	461	296	272	---	938	329	135	60	111	195	142
30	74	1,870	1,000	261	---	675	555	125	59	105	147	199
31	77	---	1,880	249	---	886	---	114	---	103	115	---
MEAN	53.9	438	684	1,477	525	340	466	265	103	425	97.2	101
MAX	89	1,870	2,530	6,130	1,520	1,170	1,260	1,010	417	3,010	195	214
MIN	38	106	224	249	234	206	259	114	54	45	53	46
IN.	0.14	1.09	1.75	3.79	1.22	0.87	1.15	0.68	0.26	1.09	0.25	0.25

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

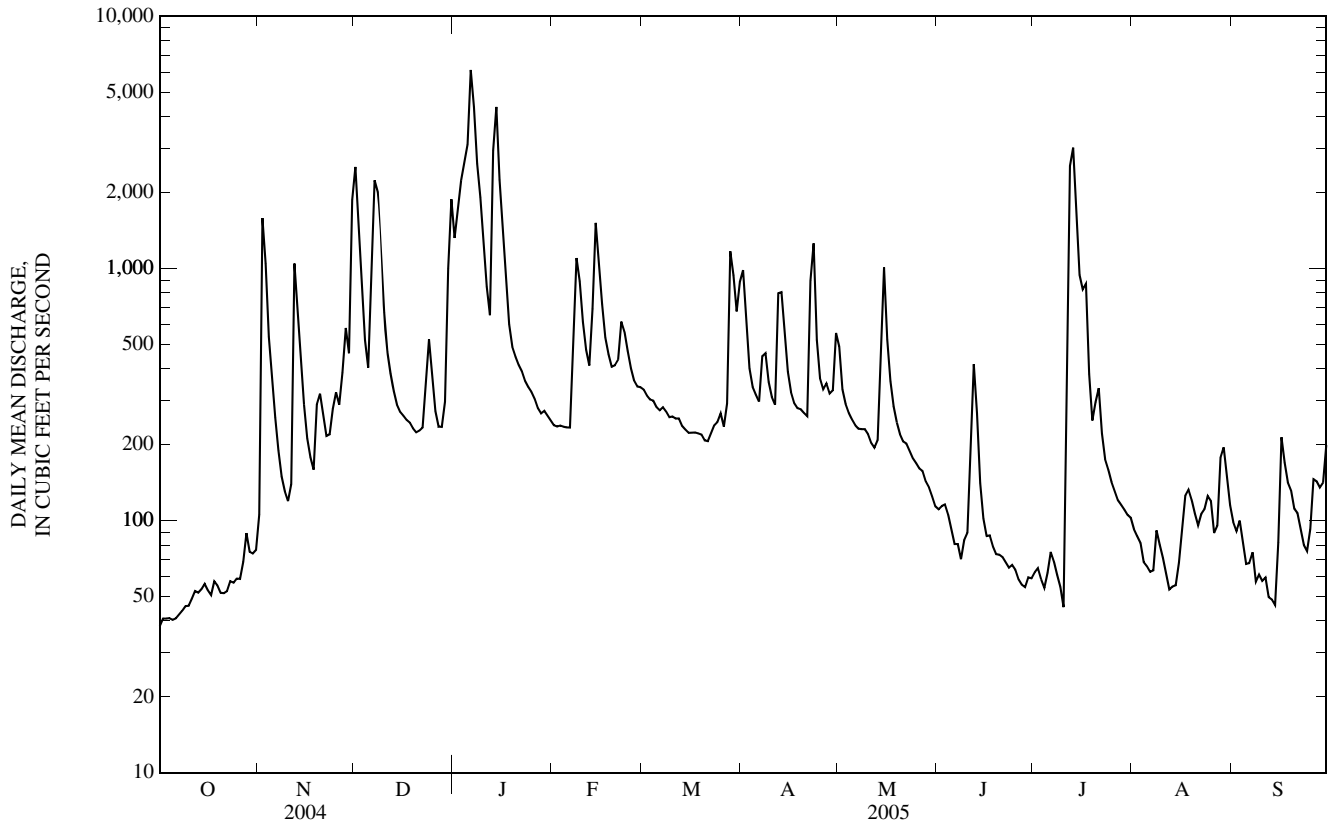
MEAN	165	428	664	799	869	923	848	783	397	266	185	181
MAX	944	2,615	2,875	4,286	3,646	2,800	2,851	3,821	1,564	817	658	1,097
(WY)	(1985)	(1958)	(1983)	(1950)	(1989)	(1979)	(1979)	(2002)	(1989)	(1957)	(1985)	(2003)
MIN	30.6	45.4	73.5	72.3	115	106	146	139	88.7	70.9	47.6	27.4
(WY)	(1954)	(2000)	(1954)	(1981)	(1963)	(1981)	(1971)	(2001)	(1988)	(1954)	(1999)	(1999)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	FOR PERIOD OF RECORD
ANNUAL MEAN	318	415	543
HIGHEST ANNUAL MEAN			1,261
LOWEST ANNUAL MEAN			134
HIGHEST DAILY MEAN	2,670	Mar 5	6,130
LOWEST DAILY MEAN	34	Aug 19	38
ANNUAL SEVEN-DAY MINIMUM	38	Aug 14	41
MAXIMUM PEAK FLOW	---		6,680
MAXIMUM PEAK STAGE	---		14.82
INSTANTANEOUS LOW FLOW	---		37
ANNUAL RUNOFF (INCHES)	9.63		12.52
10 PERCENT EXCEEDS	686		945
50 PERCENT EXCEEDS	204		232
90 PERCENT EXCEEDS	47		58

e Estimated

07043500 LITTLE RIVER DITCH 1 NEAR MOREHOUSE, MO—Continued



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

LOCATION.--Lat 36°05'25", long 90°04'47", in SW ¼ SE ¼ SW ¼ sec.28, T.17 N., R.9 E., Dunklin County, Hydrologic Unit 08020204. Located at the Little River Ditches bridge chain on State Highway 164. Samples are taken during high flow from the three western most ditches.

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

REMARKS.--Analyses represent a composite of water from five ditches. Bacteria is usually taken from Ditch 66. Published as Little River Ditches near Kennett (07046001) for periods of record from November 1969 to September 1993.

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

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, 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 19...	1300	Environmental	467	6.5	122	7.9	349	21.1	--	--	--	--
NOV 03...	0855	Environmental	13,800	6.5	68	6.6	101	17.1	41	11.2	3.08	7.34
DEC 14...	1100	Environmental	1,390	15.1	119	7.5	264	5.7	--	--	--	--
JAN 25...	1000	Environmental	1,990	15.3	119	7.8	364	4.2	170	47.1	12.2	2.71
FEB 15...	0910	Environmental	3,920	8.3	79	6.9	195	12.5	--	--	--	--
MAR 15...	0915	Environmental	835	10.7	91	8.0	397	8.4	--	--	--	--
APR 19...	0830	Environmental	892	6.8	76	8.0	380	20.4	--	--	--	--
MAY 11...	0845	Environmental	769	6.2	74	7.8	397	23.9	190	53.0	13.7	2.42
JUN 14...	0820	Environmental	1,540	5.7	73	7.6	270	27.4	--	--	--	--
JUN 14...	0821	Replicate	--	5.6	72	7.6	270	27.4	--	--	--	--
JUL 19...	0915	Environmental	1,840	5.0	65	7.6	203	28.2	88	25.0	6.13	4.26
AUG 03...	0915	Environmental	395	5.1	68	8.0	383	29.5	--	--	--	--
SEP 13...	0830	Environmental	163	9.2	116	7.7	372	26.3	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, incrm. titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, incrm. titr., field, mg/L (00450)	Carbonate, wat unfltrd, incrm. titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC, wat fltrd, mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)
OCT 19...	--	--	--	--	--	--	--	--	--	30	.33	<.04	<.06
NOV 03...	2.04	33	35	42	<1	4.14	.1	5.4	70	202d	1.4	<.04	.44
DEC 14...	--	--	--	--	--	--	--	--	--	19	.43	.07	.25
JAN 25...	10.0	135	135	164	<1	12.7	.2	23.7	224	<10	.28	.11	.22
FEB 15...	--	--	--	--	--	--	--	--	--	162d	1.2	.04	.49
MAR 15...	--	--	--	--	--	--	--	--	--	<10	.14	<.04	<.06
APR 19...	--	--	--	--	--	--	--	--	--	47	.40	E.02n	.16
MAY 11...	11.8	155	155	188	<1	14.3	.2	22.8	245	43	.33	<.04	<.06
JUN 14...	--	--	--	--	--	--	--	--	--	102d	1.8	.51	3.21
JUN 14...	--	--	--	--	--	--	--	--	--	65	1.7	.48	3.06
JUL 19...	4.47	74	73	89	<1	5.90	.2	10.2	124	38	.72	E.02n	.79
AUG 03...	--	--	--	--	--	--	--	--	--	22	.39	<.04	<.06
SEP 13...	--	--	--	--	--	--	--	--	--	42	.50	<.04	<.06

07046250 LITTLE RIVER DITCHES NEAR RIVES, MO—Continued

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

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)
OCT 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 03...	<.004	<.022	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005
DEC 14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 25...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034m	<.02	<.010
APR 19...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.016	<.02	<.034m	<.02	<.010
MAY 11...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.011	<.02	<.034m	<.02	<.010
JUN 14...	<.004	<.022	<.011	<.01	<.004	<.025	.028	<.02	.210	<.02	<.034m	<.02	.028
JUN 14...	<.004	<.022	<.011	<.01	<.004	<.025	.029	<.02	.223	<.02	<.034m	<.02	.031
JUL 19...	<.004	<.022	<.011	E.01n	<.004	<.025	<.011	<.02	.015	<.02	<.034m	<.02	<.010
AUG 03...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 13...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Tri- allate, water, fltrd 0.7µ GF (82678)	Tri- flur- alin, water, fltrd 0.7µ GF (82661)
OCT 19...	--	--
NOV 03...	<.002	<.009
DEC 14...	--	--
JAN 25...	--	--
FEB 15...	--	--
MAR 15...	<.006	<.009
APR 19...	<.006	<.009
MAY 11...	<.006	<.009
JUN 14...	<.006	<.009
JUN 14...	<.006	<.009
JUL 19...	<.006	<.009
AUG 03...	--	--
SEP 13...	--	--

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

m -- Value is highly variable by this method

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

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

LOCATION.--Lat 36°35'30", long 93°50'00", in SE ¼ SE ¼ NE ¼ sec.27, T.22 N., R.27 W., Barry County, Hydrologic Unit 11010001, at outlet of spring in Roaring River State Park.

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

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 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...	1000	Environmental	54	7.5	76	7.0	357	14.5	190	69.6	3.56	1.25
JAN 04...	1400	Environmental	230	10.9	110	7.0	232	13.6	--	--	--	--
MAR 29...	0900	Environmental	30	9.1	91	6.9	332	13.4	--	--	--	--
MAY 17...	0925	Environmental	27	8.0	80	6.8	342	13.8	170	62.7	2.59	1.34
JUL 12...	1010	Environmental	22	7.8	79	7.2	344	14.4	180	69.4	2.81	1.41
JUL 12...	1010	Blank	--	--	--	--	--	--	--	<.02	<.008	<.16
SEP 13...	1045	Environmental	22	6.7	69	6.8	352	14.4	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd incrm. titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd incrm. titr., field, mg/L (00450)	Carbonate, wat unfltrd incrm. titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)
NOV 03...	4.17	160	161	196	<1	6.90	<1	3.4	204	<10	<.10	<.04	3.10
JAN 04...	--	--	--	--	--	--	--	--	--	<10	E.06n	<.04	3.66
MAR 29...	--	--	--	--	--	--	--	--	--	<10	<.10	<.04	3.08
MAY 17...	3.88	146	148	180	<1	6.88	<1	3.7	215	<10	E.07n	<.04	3.01
JUL 12...	4.14	143	142	174	<1	6.71	<1	3.6	214	<10	E.06n	<.04	3.02
JUL 12...	<.20	--	--	--	--	<.20	<1	<.2	<10	<10	<.10	<.04	<.06
SEP 13...	--	--	--	--	--	--	--	--	--	<10	E.06n	<.04	3.12

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC 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...	<.008	<.02	E.02n	E.03n	18k	15k	<2	15	<.2	.05	E.04n	E.3n	<6
JAN 04...	<.008	E.01n	<.04	E.02n	160	160	--	--	--	--	--	--	--
MAR 29...	<.008	E.02n	<.04	E.03n	7k	8k	--	--	--	--	--	--	--
MAY 17...	<.008	<.02	<.04	<.04	10k	16k	E1n	36	<.2	E.04n	.05	E.4n	<6
JUL 12...	<.008	<.02	E.02n	E.02n	54	65k	Mn	15	E.1n	.04	E.04n	.5	E3n
JUL 12...	<.008	<.02	<.04	<.04	--	--	E2n	<2	<.2	<.04	<.04	<.4	E5n
SEP 13...	<.008	.02	E.03n	E.03n	27	22	--	--	--	--	--	--	--

07050150 ROARING RIVER SPRING NEAR CASSVILLE, 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...	<.08	<.06	<.6	<.01	E.3n	4.1	3
JAN 04...	--	--	--	--	--	--	--
MAR 29...	--	--	--	--	--	--	--
MAY 17...	E.05n	.14	<.6	<.01	<.4	2.9	3
JUL 12...	<.08	<.06	<.6	.01	E.2n	3.8	4
JUL 12...	<.08	<.06	<.6	.01	<.4	.8	E1n
SEP 13...	--	--	--	--	--	--	--

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

07050690 PEARSON CREEK NEAR SPRINGFIELD, MO

LOCATION.--Lat 37°10'41", long 93°11'54", in NW 1/4 NE 1/4 NW 1/4 sec. 35, T.29 N., R.21 W., Greene County, Hydrologic Unit 11010002, 1.4 mi east of Highway 65 and 0.13 mi south of Highway D (Sunshine).

DRAINAGE AREA.--21.0 mi².

WATER-DISCHARGE RECORDS

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

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

REMARKS.--No estimated daily discharges. Water-discharge 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	2.0	133	112	11	28	21	24	13	4.8	16	2.6	5.4
2	2.0	84	84	11	26	20	23	12	4.4	11	2.4	5.2
3	1.8	61	67	12	26	19	22	11	4.4	8.0	2.3	4.9
4	1.8	60	55	77	25	18	20	11	4.4	6.4	2.3	4.9
5	1.7	47	49	659	24	18	20	11	4.2	5.2	2.8	4.6
6	1.7	38	51	385	24	17	43	10	4.3	4.4	2.6	4.4
7	2.2	32	141	227	24	16	53	10	4.4	3.9	3.1	4.4
8	5.0	26	124	156	25	15	57	10	4.9	3.9	2.7	4.3
9	4.0	23	94	114	26	15	51	9.5	8.9	3.6	2.4	4.2
10	3.3	20	74	91	27	15	44	9.0	7.7	3.5	2.2	4.1
11	19	32	59	79	28	14	41	8.9	7.1	4.5	2.1	3.8
12	17	41	50	169	29	14	40	8.4	7.2	4.0	1.9	4.2
13	11	38	42	547	77	13	35	8.2	9.9	3.8	1.8	5.0
14	8.5	32	37	252	87	12	32	16	13	3.6	3.4	43
15	8.3	27	32	166	75	12	29	13	9.3	3.5	3.0	186
16	7.3	24	29	121	61	12	27	11	7.5	3.3	4.5	70
17	5.8	21	26	95	52	11	25	10	6.8	3.0	5.1	34
18	4.9	19	24	80	45	11	23	9.4	6.0	3.7	5.0	24
19	4.1	18	22	70	40	10	22	8.6	5.0	9.5	3.7	19
20	3.5	17	20	62	37	10	21	8.2	4.5	6.7	2.8	15
21	3.1	15	19	55	34	9.9	19	7.8	4.4	5.2	3.7	11
22	2.9	15	17	50	31	18	18	7.5	4.2	4.2	61	9.1
23	3.0	15	16	46	29	38	17	7.4	4.1	3.7	73	7.5
24	3.1	63	15	43	28	36	16	7.0	3.9	3.3	30	6.3
25	2.9	86	14	40	26	33	15	6.6	3.8	3.0	21	6.4
26	4.7	67	14	38	25	31	16	6.1	3.6	2.8	15	6.0
27	16	76	13	35	24	30	15	5.8	4.6	4.3	12	5.1
28	23	75	12	33	22	29	14	5.8	5.0	4.0	10	5.1
29	13	138	12	32	---	29	14	5.5	4.2	3.5	8.1	6.4
30	21	162	12	30	---	28	13	5.5	4.9	3.1	6.8	5.0
31	14	---	11	29	---	27	---	5.1	---	2.8	6.0	---
MEAN	7.15	50.2	43.5	123	35.9	19.4	27.0	8.98	5.71	4.88	9.85	17.3
MAX	23	162	141	659	87	38	57	16	13	16	73	186
MIN	1.7	15	11	11	22	9.9	13	5.1	3.6	2.8	1.8	3.8
IN.	0.39	2.67	2.39	6.76	1.78	1.07	1.43	0.49	0.30	0.27	0.54	0.92

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	6.01	14.4	21.3	34.0	28.2	29.0	21.6	33.6	15.0	19.2	8.50	7.11
MAX	14.7	50.2	43.5	123	53.2	57.1	37.7	126	31.1	59.6	12.4	17.3
(WY)	(2002)	(2005)	(2005)	(2005)	(2001)	(2004)	(2002)	(2002)	(2003)	(2000)	(2001)	(2005)
MIN	2.70	3.77	3.73	4.39	9.62	11.3	5.20	5.63	5.71	4.88	3.10	1.98
(WY)	(2001)	(2000)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)	(2005)	(2005)	(1999)	(2002)

SUMMARY STATISTICS

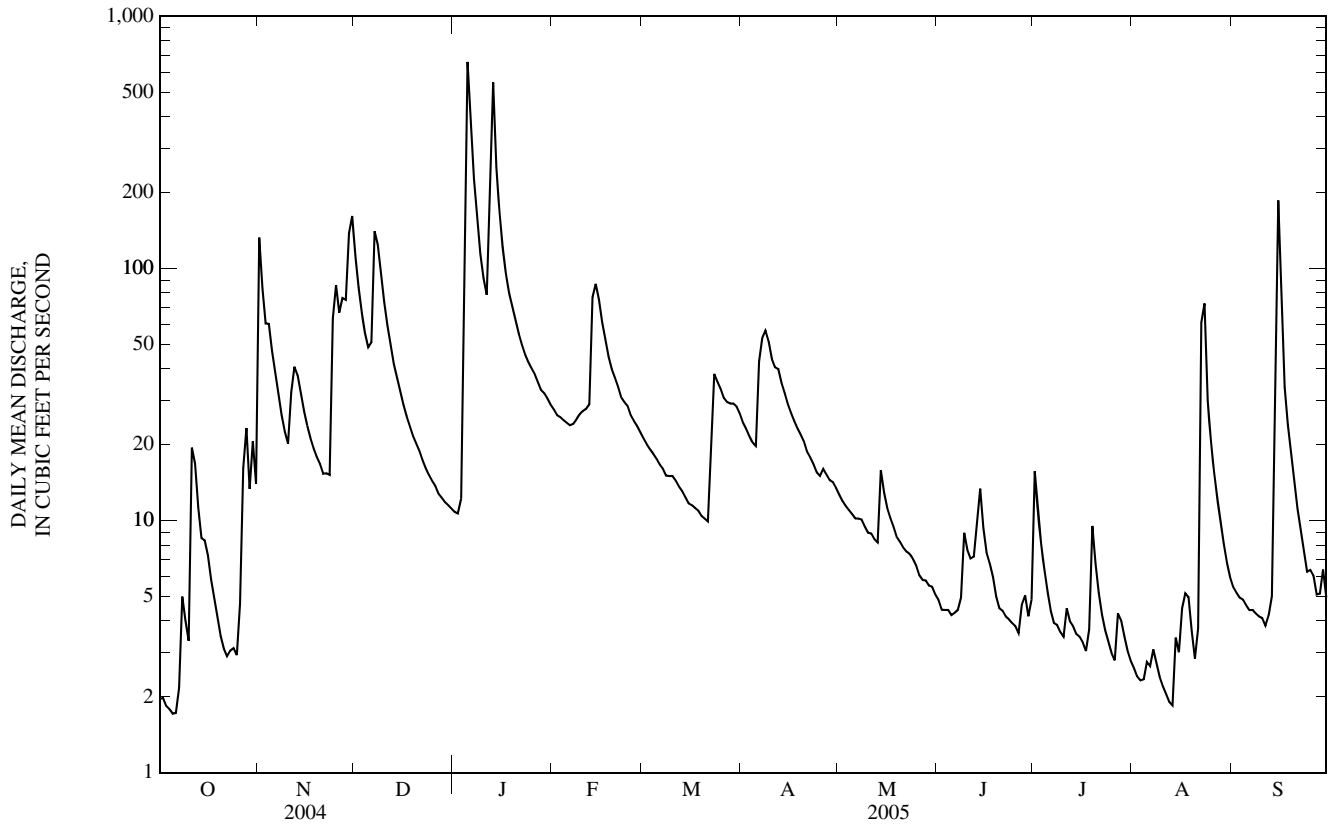
FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1999 - 2005

ANNUAL MEAN	27.3	29.4	20.0
HIGHEST ANNUAL MEAN			29.4
LOWEST ANNUAL MEAN			12.2
HIGHEST DAILY MEAN	306	Mar 5	916
LOWEST DAILY MEAN	1.7	Oct 5,6	1.5
ANNUAL SEVEN-DAY MINIMUM	1.9	Sep 30	1.7
MAXIMUM PEAK FLOW	---		2,200
MAXIMUM PEAK STAGE	---		7.53
INSTANTANEOUS LOW FLOW	---		1.4
ANNUAL RUNOFF (INCHES)	17.69	19.01	12.91
10 PERCENT EXCEEDS	65	67	40
50 PERCENT EXCEEDS	15	14	9.3
90 PERCENT EXCEEDS	3.8	3.5	3.1

07050690 PEARSON CREEK NEAR SPRINGFIELD, MO—Continued



07050700 JAMES RIVER NEAR SPRINGFIELD, MO

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

DRAINAGE AREA.--246 mi².

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

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

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	552	959	65	140	136	172	82	31	36	5.7	14
2	4.8	676	610	78	132	123	157	79	30	34	5.3	8.9
3	4.4	361	457	82	130	118	143	75	29	27	5.0	7.1
4	4.5	316	373	1,260	124	118	127	73	27	27	5.0	13
5	4.6	266	321	9,780	127	115	119	70	25	24	5.5	13
6	4.7	216	335	3,520	129	111	240	68	24	22	5.5	6.6
7	5.5	173	1,960	1,340	132	105	597	66	23	19	5.8	9.2
8	11	134	1,030	871	139	108	560	64	24	17	6.0	3.7
9	9.9	107	632	660	156	114	393	63	29	15	7.0	5.9
10	4.9	91	474	529	162	110	311	62	27	13	6.8	6.7
11	27	117	372	448	165	106	270	60	25	14	6.0	6.0
12	16	437	313	522	172	102	538	58	26	13	5.5	4.8
13	11	309	265	5,940	624	98	361	55	31	13	5.0	5.0
14	19	235	225	1,680	766	94	277	75	45	11	6.3	82
15	16	182	196	919	510	90	232	83	36	11	6.7	262
16	17	147	175	662	389	88	202	77	31	9.6	8.1	227
17	20	125	158	520	316	75	174	70	31	8.9	9.3	136
18	19	108	147	424	269	66	153	64	28	8.4	11	89
19	29	95	135	375	241	65	137	59	25	17	8.7	139
20	23	84	121	339	218	63	121	55	23	16	7.1	113
21	16	75	113	309	200	60	112	52	21	13	6.2	67
22	10	67	105	281	179	93	110	50	19	11	41	43
23	14	62	94	254	170	407	114	48	18	9.3	106	29
24	17	540	90	232	169	377	106	45	16	8.3	176	20
25	15	861	86	215	164	317	101	43	15	7.4	125	24
26	14	469	80	199	158	279	105	41	14	6.8	66	24
27	14	471	70	183	152	254	99	40	13	9.1	41	13
28	58	535	66	172	143	255	94	38	15	9.4	33	8.5
29	32	1,670	61	167	---	235	91	37	13	8.1	28	14
30	48	2,100	61	159	---	216	87	34	14	7.1	25	14
31	55	---	61	146	---	190	---	33	---	6.3	16	---
MEAN	17.7	386	327	1,043	228	151	210	58.7	24.3	14.6	25.6	46.9
MAX	58	2,100	1,960	9,780	766	407	597	83	45	36	176	262
MIN	4.4	62	61	65	124	60	87	33	13	6.3	5.0	3.7
IN.	0.08	1.75	1.53	4.89	0.96	0.71	0.95	0.28	0.11	0.07	0.12	0.21

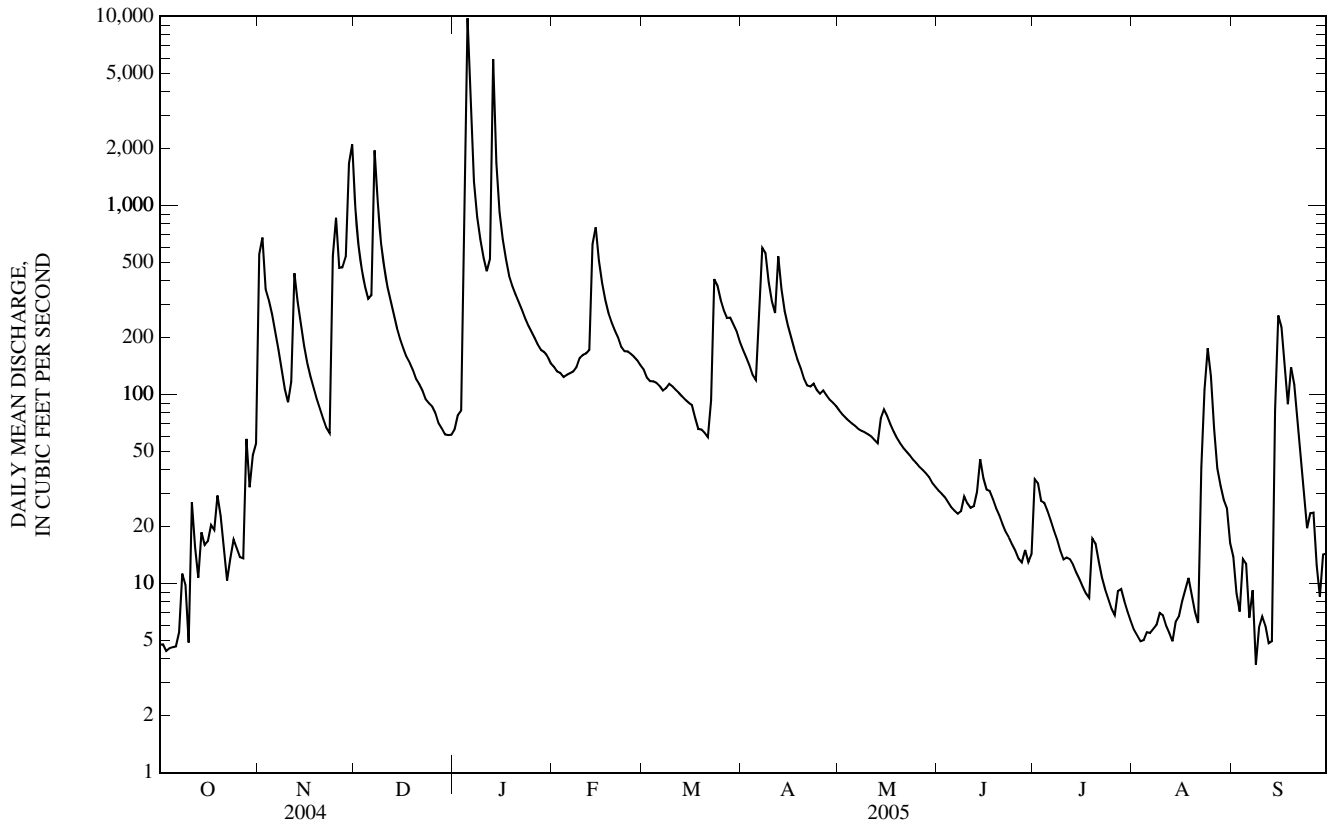
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2005, BY WATER YEAR (WY)

	90.3	241	280	229	274	409	420	398	187	102	37.1	104
MEAN	90.3	241	280	229	274	409	420	398	187	102	37.1	104
MAX	587	1,327	1,370	1,043	972	1,055	1,396	1,672	873	1,148	262	1,566
(WY)	(1971)	(1973)	(1983)	(2005)	(1985)	(1998)	(1994)	(1961)	(1985)	(1958)	(1958)	(1993)
MIN	2.74	9.39	8.26	5.56	8.35	16.4	16.3	27.6	24.3	12.2	3.22	1.05
(WY)	(1957)	(1964)	(1956)	(1981)	(1981)	(1981)	(1981)	(2000)	(2005)	(1962)	(1962)	(1956)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1956 - 2005	
ANNUAL MEAN	240		211		231	
HIGHEST ANNUAL MEAN					465	
LOWEST ANNUAL MEAN					52.8	
HIGHEST DAILY MEAN	8,020	May 1	9,780	Jan 5	24,500	Sep 25, 1993
LOWEST DAILY MEAN	4.4	Oct 3	3.7	Sep 8	0.30	Sep 16, 1956
ANNUAL SEVEN-DAY MINIMUM	4.7	Sep 30	4.8	Oct 1	0.53	Sep 12, 1956
MAXIMUM PEAK FLOW	---		13,500	Jan 5	41,100	Sep 25, 1993
MAXIMUM PEAK STAGE	---		15.69	Jan 5	19.45	Sep 25, 1993
INSTANTANEOUS LOW FLOW	---		1.1	Sep 8	0.10	Sep 16, 1956
ANNUAL RUNOFF (INCHES)	13.28		11.67		12.74	
10 PERCENT EXCEEDS	470		441		496	
50 PERCENT EXCEEDS	103		75		73	
90 PERCENT EXCEEDS	11		7.3		12	

07050700 JAMES RIVER NEAR SPRINGFIELD, MO—Continued



07052000 WILSON CREEK AT SPRINGFIELD, MO

LOCATION.--Lat 37°11'13", long 93°19'53", in SE ¼ NE ¼ SE ¼ sec. 28, T.29 N., R.22 W., Greene County, Hydrologic Unit 11010002, 1,600 ft downstream from confluence of Jordan and Fassnight Creeks, at bridge on Scenic Drive in Springfield.

DRAINAGE AREA.--17.8 mi².

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

REVISED RECORDS.--WDR MO-01-1: 1999, 2000(P).

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

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

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	1.2	356	22	6.0	7.1	7.1	14	5.9	3.7	e12	1.5	2.1
2	1.1	27	19	10	13	6.8	5.4	5.5	3.6	e4.8	1.5	2.1
3	1.1	57	17	17	9.0	6.3	4.7	5.4	3.5	e3.6	1.5	1.9
4	1.1	24	15	257	7.7	11	4.5	5.1	3.5	e2.9	1.6	1.9
5	1.1	18	28	567	7.2	6.3	55	4.9	4.6	e2.4	1.8	1.6
6	1.1	16	89	63	12	5.9	129	4.9	3.3	2.1	3.8	1.5
7	2.0	14	85	36	24	5.8	31	4.7	34	1.8	1.6	1.4
8	43	13	22	28	10	5.7	15	4.6	6.7	1.8	1.4	1.4
9	2.7	12	19	22	17	15	12	4.7	132	1.7	1.4	1.5
10	2.2	12	17	20	8.7	6.3	11	4.4	6.0	2.4	1.4	1.5
11	202	103	15	22	7.9	5.7	61	4.3	22	2.2	1.5	1.3
12	19	20	14	346	49	5.3	30	4.3	4.5	1.6	1.5	1.3
13	6.2	15	13	262	82	4.9	14	4.3	114	1.6	1.6	1.9
14	21	13	12	57	21	4.8	12	103	23	1.6	3.4	195
15	11	12	12	37	16	4.6	11	6.4	5.5	1.6	21	664
16	7.4	12	11	27	14	4.4	10	5.3	5.5	1.6	4.3	20
17	4.3	11	10	22	13	4.0	9.5	4.9	4.3	1.6	16	12
18	4.0	15	9.6	19	12	3.8	9.1	4.7	3.7	29	2.4	14
19	3.8	11	9.2	17	11	3.6	8.5	4.7	3.4	39	1.7	9.2
20	3.4	16	9.1	15	10	3.4	8.0	4.6	3.3	2.6	1.7	7.4
21	3.2	16	8.8	13	13	3.3	7.6	4.4	3.0	1.8	249	6.3
22	3.2	17	8.8	12	8.9	98	7.3	4.9	3.1	1.7	86	5.2
23	4.1	11	8.5	12	18	22	6.8	4.4	2.9	1.6	45	4.5
24	3.1	193	8.2	11	10	7.7	6.6	4.4	2.8	1.6	6.3	3.9
25	3.0	22	7.8	10	8.6	11	17	4.2	2.8	1.6	4.3	6.1
26	38	17	7.5	9.3	8.3	5.9	28	4.1	2.7	1.7	3.8	3.8
27	118	48	7.2	8.6	7.8	16	7.4	4.0	2.9	26	3.6	3.4
28	12	17	6.9	8.4	8.3	6.5	14	3.9	2.9	1.8	3.0	11
29	30	158	6.6	11	---	5.5	7.2	3.7	2.7	1.6	2.7	4.8
30	20	30	6.2	8.2	---	5.1	6.5	3.6	e3.7	1.6	2.6	2.9
31	40	---	5.9	7.8	---	4.6	---	3.6	---	1.5	2.3	---
MEAN	19.8	43.5	17.1	63.3	15.5	9.88	18.8	7.80	14.0	5.17	15.5	33.7
MAX	202	356	89	567	82	98	129	103	132	39	249	664
MIN	1.1	11	5.9	6.0	7.1	3.3	4.5	3.6	2.7	1.5	1.4	1.3
IN.	1.28	2.73	1.11	4.10	0.91	0.64	1.18	0.51	0.88	0.34	1.01	2.11

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

MEAN	12.9	17.6	14.3	20.7	18.9	21.8	22.3	28.5	29.4	19.2	11.1	32.2
MAX	27.7	43.5	29.4	63.3	41.0	57.6	52.9	74.5	119	100	26.2	361
(WY)	(1937)	(2005)	(2000)	(2005)	(2001)	(1935)	(1933)	(2002)	(1935)	(2000)	(2003)	(1975)
MIN	4.67	4.39	5.33	4.33	6.30	7.90	4.13	7.80	6.60	5.17	4.37	1.99
(WY)	(2004)	(2003)	(2001)	(2000)	(1934)	(1936)	(2000)	(2005)	(1936)	(2005)	(1999)	(2002)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

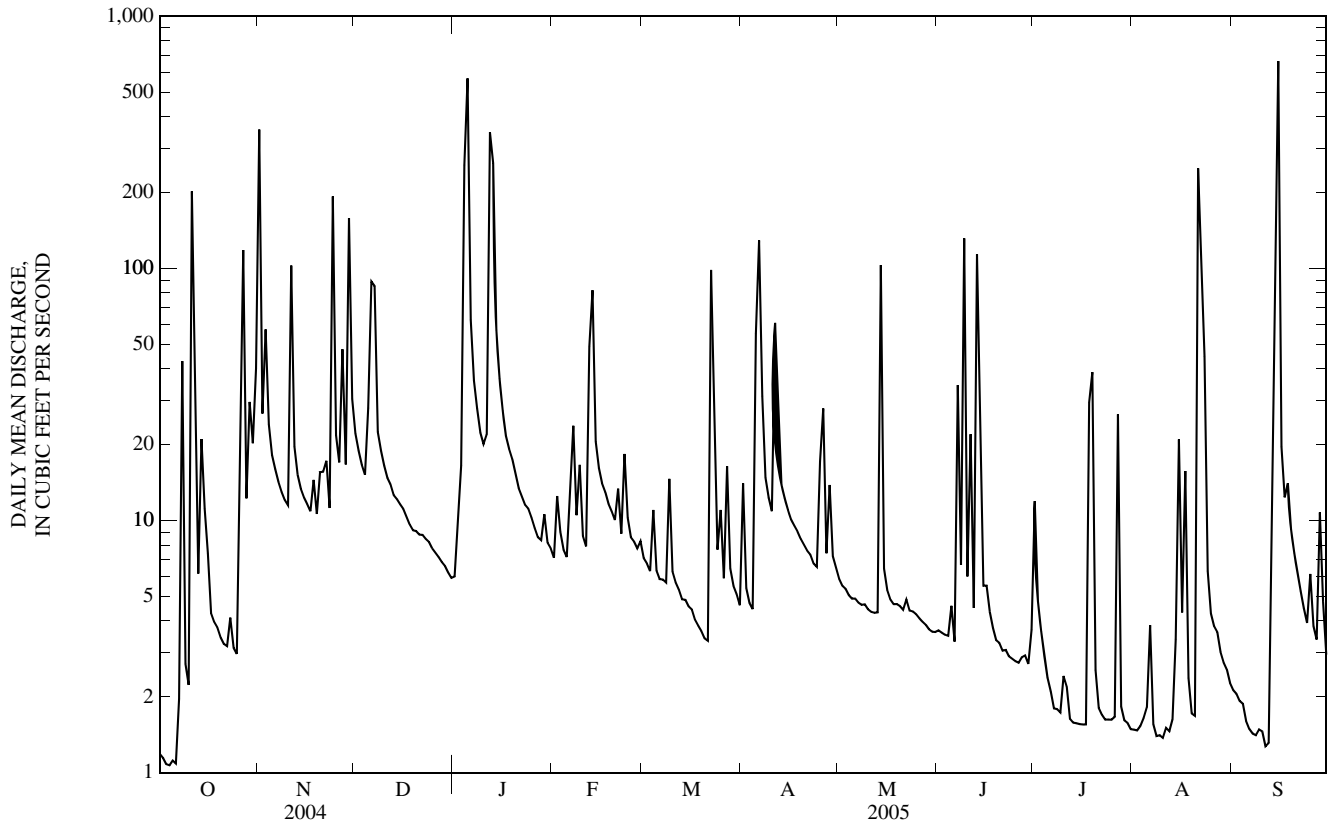
FOR PERIOD OF RECORD

ANNUAL MEAN	17.7	22.0	18.5
HIGHEST ANNUAL MEAN			29.9
LOWEST ANNUAL MEAN			8.26
HIGHEST DAILY MEAN	356	664	2,160
LOWEST DAILY MEAN	1.0	1.1	0.81
ANNUAL SEVEN-DAY MINIMUM	1.1	1.2	0.84
MAXIMUM PEAK FLOW	---	2,890 ^a	6,750 ^a
MAXIMUM PEAK STAGE	---	10.11	12.70
INSTANTANEOUS LOW FLOW	---	0.76	0.31
ANNUAL RUNOFF (INCHES)	13.52	16.78	14.09
10 PERCENT EXCEEDS	30	35	37
50 PERCENT EXCEEDS	7.8	7.1	8.6
90 PERCENT EXCEEDS	2.6	1.6	3.0

e Estimated

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

07052000 WILSON CREEK AT SPRINGFIELD, MO—Continued



07052100 WILSON CREEK NEAR SPRINGFIELD, MO

LOCATION.--Lat 37°10'07", long 93°22'13", in NE ¼ NE ¼ sec. 6, T.28 N., R.22 W., Greene County, Hydrologic Unit 11010002 on right bank just downstream from bridge on County Road 156, 1 mile upstream of Sewage Treatment Plant, and 0.75 mi upstream of South Creek.

DRAINAGE AREA.--31.4 mi².

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

REVISED RECORDS.--WDR MO-01-1: 1999-2000(P).

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	e550	e24	0.00	0.00	0.92	7.1	0.00	0.00	26	0.00	0.00
2	0.00	e39	e12	0.15	0.92	0.39	1.1	0.00	0.00	0.00	0.00	0.00
3	0.00	e104	e7.1	e4.0	1.0	0.02	0.02	0.00	0.00	0.00	0.00	0.00
4	0.00	e31	e4.5	e350	0.37	3.7	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	e13	e30	e997	0.00	0.05	1.2	0.00	0.00	0.00	0.00	0.00
6	0.00	e7.5	e89	e163	0.68	0.00	172	0.00	0.00	0.00	0.00	0.00
7	0.00	e3.2	e171	e21	e4.0	0.00	32	0.00	30	0.00	0.00	0.00
8	80	1.9	e38	e7.8	e2.6	0.00	13	0.00	4.8	0.00	0.00	0.00
9	0.00	1.3	e22	e4.8	e3.4	4.3	9.4	0.00	72	0.00	0.00	0.00
10	0.00	0.27	e14	e3.7	e2.1	0.01	7.3	0.00	0.25	0.00	0.00	0.00
11	e322	e193	e7.7	e5.2	e1.8	0.00	39	0.00	9.5	0.00	0.00	0.00
12	e23	e22	e5.6	e328	e19	0.00	43	0.00	0.12	0.00	0.00	0.00
13	e1.4	e8.4	e3.8	e482	121	0.00	11	0.00	61	0.00	0.00	0.00
14	e18	e3.7	e2.7	e18	21	0.00	9.2	100	29	0.00	0.00	156
15	e1.9	2.3	e2.4	e8.7	15	0.00	7.1	0.55	0.08	0.00	3.9	908
16	e4.3	1.7	e2.2	e5.8	12	0.00	5.5	0.00	0.00	0.00	0.62	22
17	0.00	1.1	1.9	e4.5	9.4	0.00	4.1	0.00	0.00	0.00	1.8	6.6
18	0.00	1.6	1.7	e3.8	7.8	0.00	3.0	0.00	0.00	0.00	0.00	5.7
19	0.00	0.49	1.4	e3.3	6.7	0.00	2.1	0.00	0.00	28	0.00	0.90
20	0.00	1.9	1.3	e3.0	5.7	0.00	1.2	0.00	0.00	0.00	0.00	0.00
21	0.00	0.14	0.97	e2.6	7.5	0.00	0.48	0.00	0.00	0.00	201	0.00
22	0.00	e7.4	0.62	e2.2	4.1	86	0.12	0.00	0.00	0.00	52	0.00
23	0.00	e0.83	0.50	1.9	11	28	0.01	0.00	0.00	0.00	39	0.00
24	0.00	e193	0.52	1.7	6.3	5.6	0.00	0.00	0.00	0.00	0.61	0.00
25	0.00	e34	0.59	1.5	3.9	8.1	0.85	0.00	0.00	0.00	0.00	0.00
26	e44	e17	0.10	0.65	3.1	3.0	27	0.00	0.00	0.00	0.00	0.00
27	e184	e81	0.00	0.02	2.1	11	2.3	0.00	0.00	8.3	0.00	0.00
28	e52	e17	0.00	0.00	2.1	3.6	5.8	0.00	0.00	0.00	0.00	1.7
29	e2.2	e247	0.00	1.2	---	1.6	1.3	0.00	0.00	0.00	0.00	0.51
30	e55	e68	0.00	0.15	---	0.44	0.20	0.00	0.00	0.00	0.00	0.00
31	e12	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
MEAN	25.8	55.1	14.4	78.2	9.81	5.06	13.5	3.24	6.89	2.01	9.64	36.7
MAX	322	550	171	997	121	86	172	100	72	28	201	908
MIN	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IN.	0.95	1.96	0.53	2.87	0.33	0.19	0.48	0.12	0.24	0.07	0.35	1.30

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

MEAN	15.0	22.6	14.8	16.9	16.4	31.2	27.3	36.1	25.5	18.1	10.1	13.3
MAX	54.6	88.6	34.1	78.2	47.5	74.6	78.1	151	56.6	73.9	30.4	73.0
(WY)	(1973)	(1973)	(1974)	(2005)	(2001)	(1975)	(1979)	(2002)	(1981)	(2000)	(2003)	(1977)
MIN	2.04	0.26	0.56	0.36	2.55	1.08	0.05	3.24	4.31	2.01	1.23	0.06
(WY)	(2000)	(2003)	(2001)	(1977)	(1977)	(2001)	(2000)	(2005)	(2002)	(2005)	(1999)	(2004)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

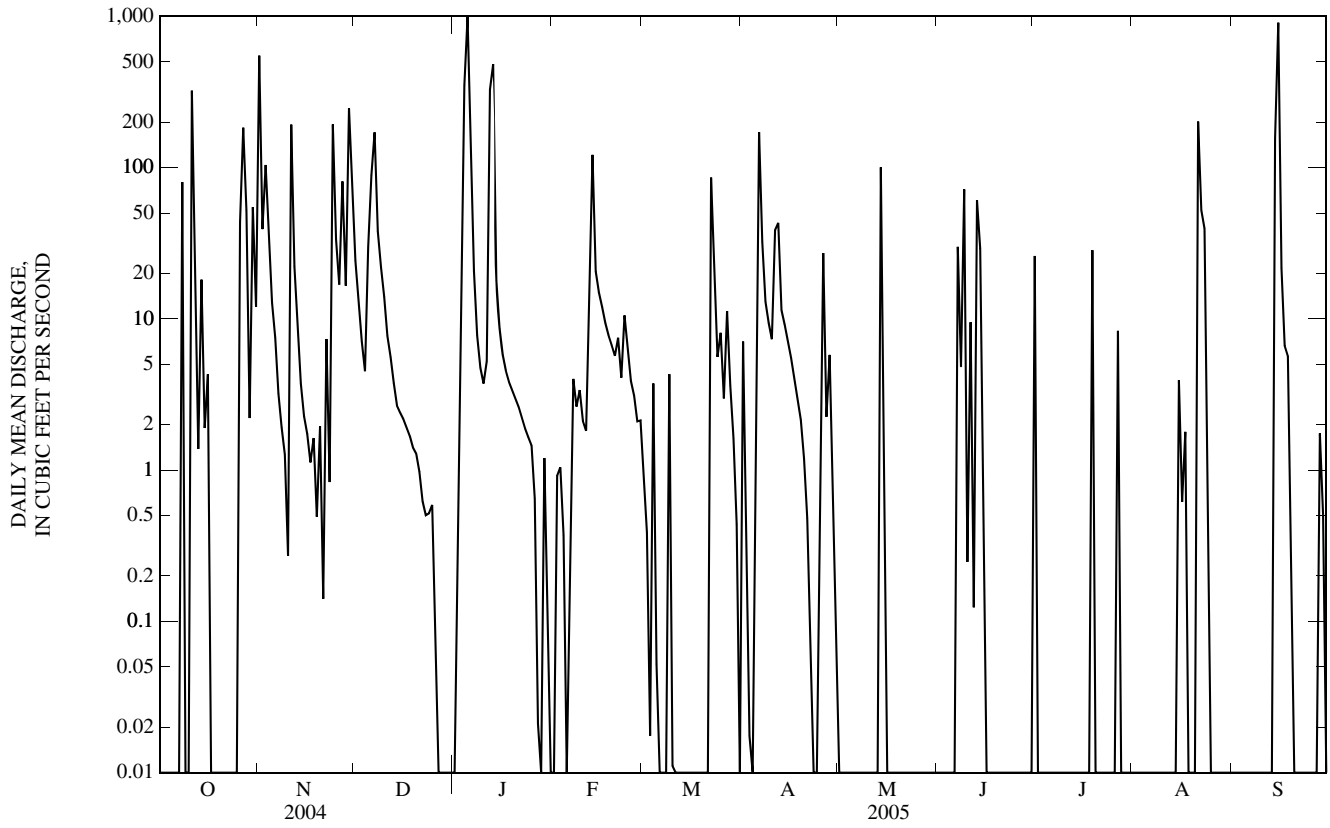
FOR 2005 WATER YEAR

FOR PERIOD OF RECORD

ANNUAL MEAN	25.1		21.7		20.8
HIGHEST ANNUAL MEAN					35.2
LOWEST ANNUAL MEAN					9.43
HIGHEST DAILY MEAN	550	Nov 1	997	Jan 5	1,810
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	At Times	0.00	At Times	0.00
MAXIMUM PEAK FLOW	---		2,820	Sep 15	5,480
MAXIMUM PEAK STAGE	---		8.03	Sep 15	9.49
INSTANTANEOUS LOW FLOW	---		0.00	Many Days	0.00
ANNUAL RUNOFF (INCHES)	10.87		9.40		8.99
10 PERCENT EXCEEDS	64		33		44
50 PERCENT EXCEEDS	1.1		0.20		5.8
90 PERCENT EXCEEDS	0.00		0.00		0.00

e Estimated

07052100 WILSON CREEK NEAR SPRINGFIELD, MO—Continued



07052120 SOUTH CREEK NEAR SPRINGFIELD, MO

LOCATION.--Lat 37°09'13", long 93°21'46", Greene County, Hydrologic Unit 11010002, 50 ft downstream of State Highway FF bridge, 0.25 mi west of junction of James River Expressway and Highway FF.

DRAINAGE AREA.--10.5 mi².

PERIOD OF RECORD.--May 29, 1998 to current year.

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

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

REMARKS.--Records poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	e82	5.1	0.00	0.00	0.00	0.46	0.00	0.00	3.5	0.00	0.00
2	0.00	4.6	3.3	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	11	1.9	1.9	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	3.3	0.57	43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.20	3.9	117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	9.3	27	0.00	0.00	16	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	33	15	0.00	0.00	3.9	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	10	9.7	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	7.6	5.7	0.00	0.34	0.00	0.00	6.1	0.00	0.00	0.00
10	0.00	0.00	5.3	3.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	35	21	3.4	1.5	0.00	0.00	6.0	0.00	0.39	0.00	0.00	0.00
12	0.24	1.5	1.4	e61	2.6	0.00	8.6	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.39	66	15	0.00	1.2	0.00	4.4	0.00	0.00	0.00
14	1.6	0.00	0.05	15	3.5	0.00	0.38	10	12	0.00	0.00	70
15	0.00	0.00	0.00	8.7	2.2	0.00	0.00	0.00	0.00	0.00	0.00	219
16	0.00	0.00	0.00	5.6	1.4	0.00	0.00	0.00	0.00	0.00	0.00	4.0
17	0.00	0.00	0.00	e2.9	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	e1.2	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	2.3	0.00	0.00	e0.42	0.00	0.00	0.00	0.00	0.00	13	0.00	0.00
20	0.15	0.00	0.00	e0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	e0.00	0.58	0.00	0.00	0.00	0.00	0.00	20	0.00
22	0.00	0.00	0.00	e0.00	0.00	12	0.00	0.00	0.00	0.00	5.4	0.00
23	0.00	0.00	0.00	e0.00	2.1	4.4	0.00	0.00	0.00	0.00	8.9	0.00
24	0.00	32	0.00	e0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	3.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	5.5	0.80	0.00	e0.00	0.00	0.00	3.5	0.00	0.00	0.00	0.00	0.00
27	4.0	12	0.00	0.00	0.00	0.31	0.00	0.00	0.00	1.7	0.00	0.00
28	0.02	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	38	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	8.5	8.9	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.22	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
MEAN	1.86	7.32	2.75	12.4	1.03	0.55	1.34	0.32	0.76	0.59	1.11	9.77
MAX	35	82	33	117	15	12	16	10	12	13	20	219
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IN.	0.20	0.78	0.30	1.36	0.10	0.06	0.14	0.04	0.08	0.06	0.12	1.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2005, BY WATER YEAR (WY)

MEAN	8.91	2.09	5.19	3.31	6.14	12.5	6.74	13.8	2.21	6.07	3.27	2.37
MAX	55.0	7.32	21.6	12.4	30.1	71.9	31.2	63.8	6.16	24.5	17.6	9.77
(WY)	(2003)	(2005)	(2003)	(2005)	(2003)	(2003)	(2003)	(2003)	(2003)	(2000)	(2002)	(2005)
MIN	0.00	0.00	0.00	0.01	0.15	0.09	0.14	0.32	0.56	0.59	0.00	0.00
(WY)	(2001)	(2003)	(2001)	(2001)	(2004)	(2001)	(2000)	(2005)	(2004)	(2005)	(1999)	(1999)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

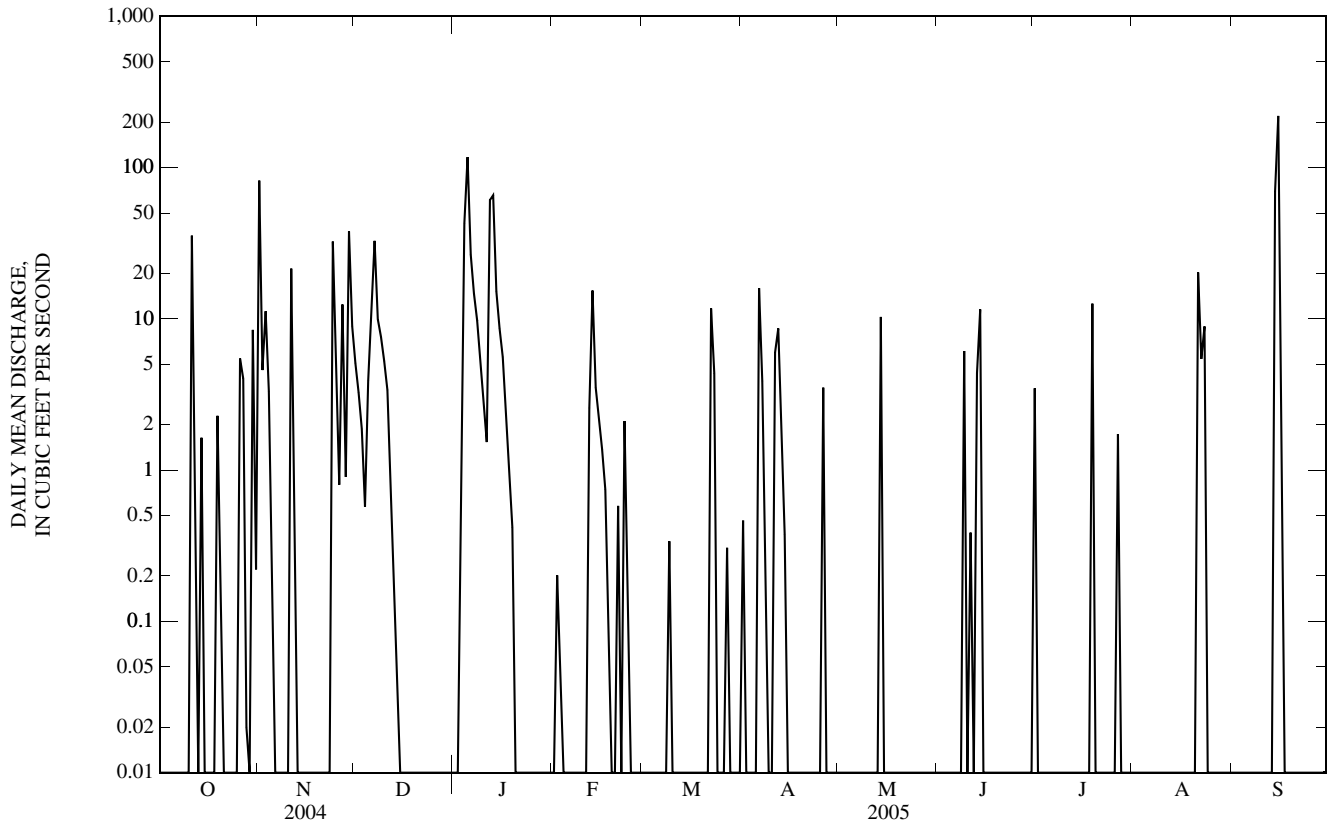
FOR 2005 WATER YEAR

WATER YEARS 1998 - 2005

ANNUAL MEAN	3.10	3.32	6.18
HIGHEST ANNUAL MEAN			24.2
LOWEST ANNUAL MEAN			1.57
HIGHEST DAILY MEAN		Nov 1	611
LOWEST DAILY MEAN	0.00	Many Days	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	At Times	0.00
MAXIMUM PEAK FLOW	---	711	Unknown
MAXIMUM PEAK STAGE	---	5.33	9.63
INSTANTANEOUS LOW FLOW	---	0.00	0.00
ANNUAL RUNOFF (INCHES)	4.02	4.29	7.99
10 PERCENT EXCEEDS	8.8	5.6	6.9
50 PERCENT EXCEEDS	0.00	0.00	0.00
90 PERCENT EXCEEDS	0.00	0.00	0.00

e Estimated

07052120 SOUTH CREEK NEAR SPRINGFIELD, MO—Continued



07052152 WILSON CREEK NEAR BROOKLINE, MO

LOCATION.--Lat 37°08'50", long 93°22'32", in NW ¼ NE ¼ NE ¼ sec.7, T.28 N., R.22 W., Greene County, Hydrologic Unit 11010002, at bridge on Farm Road 168, 2.0 mi southeast of Brookline, approximately 0.25 mi downstream from the Southwest Treatment Plant, and 0.5 mi downstream from South Creek.

DRAINAGE AREA.--44.6 mi².

WATER-DISCHARGE RECORDS

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

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

REMARKS.--No estimated daily discharges. Water-discharge records good except for discharges over 1,000 ft³/s, which are fair. Natural flow partially regulated and affected by sewage effluent.

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	32	621	119	47	50	50	57	46	38	63	37	37
2	31	106	95	44	52	43	58	47	41	38	38	38
3	33	118	81	58	57	41	49	43	41	34	39	34
4	33	93	78	286	56	48	50	43	39	34	35	30
5	33	79	80	1,320	50	41	50	46	38	39	37	32
6	36	75	96	429	54	45	208	47	40	39	37	35
7	36	54	283	229	61	47	106	42	53	39	31	38
8	48	52	139	156	62	42	83	44	45	39	35	38
9	36	51	97	110	65	50	75	42	122	36	37	38
10	34	47	88	103	61	45	66	44	46	34	38	34
11	187	149	83	100	59	48	91	45	44	39	38	32
12	58	69	79	452	78	46	109	44	41	39	37	36
13	52	64	74	1,050	178	36	80	44	98	38	31	39
14	54	62	74	251	85	43	66	125	98	41	30	272
15	48	61	71	146	78	40	66	49	49	37	38	1,370
16	43	51	62	101	73	41	68	45	47	35	39	95
17	44	52	61	94	71	41	62	45	45	34	43	65
18	43	51	58	91	67	41	59	44	40	37	42	46
19	38	47	53	74	64	44	56	43	37	73	40	46
20	37	49	63	73	52	33	59	43	41	43	35	44
21	38	45	60	63	55	42	55	42	41	40	207	40
22	41	53	41	61	50	117	54	45	42	39	120	40
23	35	52	59	55	57	94	54	40	41	36	98	37
24	33	251	52	58	56	64	48	44	41	38	48	34
25	36	126	53	52	55	61	53	43	37	37	45	38
26	53	87	45	59	52	61	70	44	35	39	42	38
27	125	136	52	56	43	53	53	39	39	47	38	36
28	62	78	51	56	53	60	55	39	40	39	35	40
29	49	268	48	61	---	55	56	35	40	38	39	39
30	68	171	48	57	---	54	53	38	40	34	39	34
31	47	---	49	53	---	55	---	40	---	33	38	---
MEAN	49.8	107	77.2	189	64.1	51.0	69.0	45.8	48.0	39.7	47.9	92.5
MAX	187	621	283	1,320	178	117	208	125	122	73	207	1,370
MIN	31	45	41	44	43	33	48	35	35	33	30	30

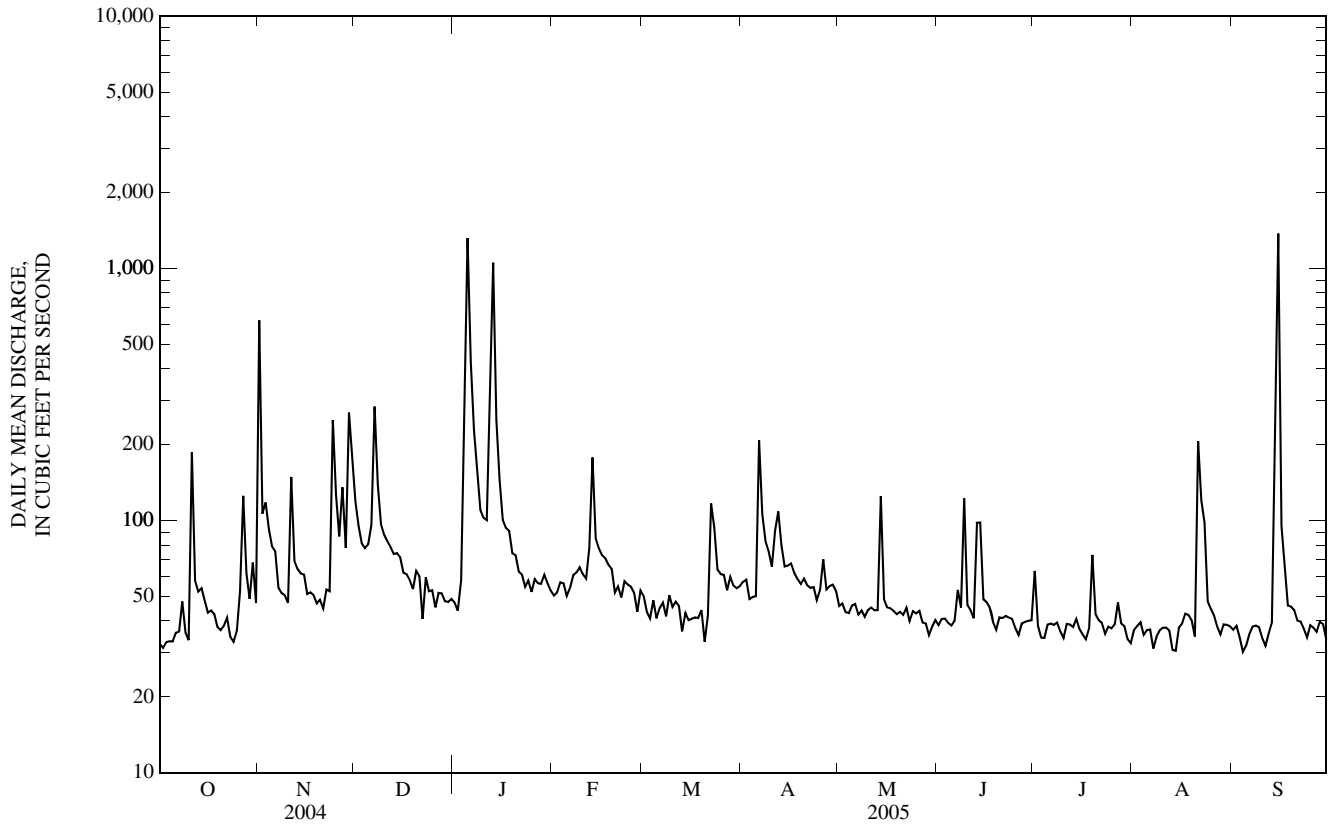
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	43.1	58.1	61.4	87.4	55.6	68.3	66.4	102	54.0	49.0	46.1	49.6
MAX	50.1	107	77.2	189	64.1	97.8	73.6	230	74.3	63.7	59.5	92.5
(WY)	(2002)	(2005)	(2005)	(2005)	(2005)	(2004)	(2002)	(2002)	(2003)	(2004)	(2003)	(2005)
MIN	34.8	32.8	40.5	39.0	44.8	51.0	53.0	45.8	45.4	39.7	39.2	34.1
(WY)	(2004)	(2003)	(2003)	(2003)	(2004)	(2005)	(2003)	(2005)	(2002)	(2005)	(2002)	(2004)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 2001 - 2005
ANNUAL MEAN	63.1	73.4	62.0
HIGHEST ANNUAL MEAN			73.4
LOWEST ANNUAL MEAN			50.8
HIGHEST DAILY MEAN	621	1,370	2,750
LOWEST DAILY MEAN	29	30	25
ANNUAL SEVEN-DAY MINIMUM	33	33	28
MAXIMUM PEAK FLOW	---	4,160	Unknown
MAXIMUM PEAK STAGE	---	9.30	10.27
INSTANTANEOUS LOW FLOW	---	6.7	1.0
ANNUAL RUNOFF (INCHES)	21.75	25.23	21.31
10 PERCENT EXCEEDS	94	102	85
50 PERCENT EXCEEDS	47	48	44
90 PERCENT EXCEEDS	35	36	34

07052152 WILSON CREEK NEAR BROOKLINE, MO—Continued



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

WATER-QUALITY RECORDS

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

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

Date	Time	Sample type	Instan- taneous dis- charge, cfs (00061)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unfltrd, μ S/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)
NOV 16...	1310	Environmental	56	13.0	147	7.3	1,050	19.9	230	78.4	9.04	11.1
JAN 19...	1515	Environmental	77	17.8	181	7.1	829	14.5	230	83.4	5.22	6.41
FEB 08...	0855	Environmental	63	13.1	134	7.3	950	14.6	--	--	--	--
MAR 29...	1040	Environmental	57	15.9	171	7.3	976	15.9	--	--	--	--
APR 11...	1340	Environmental	154	11.8	128	7.4	509	16.9	--	--	--	--
MAY 24...	1400	Environmental	48	13.7	163	7.1	1,070	21.3	190	61.8	8.92	13.4
JUN 14...	0830	Environmental	63	14.0	169	7.3	814	22.2	--	--	--	--
JUL 26...	1630	Environmental	45	12.4	166	7.2	1,060	27.8	--	--	--	--
AUG 30...	1515	Environmental	43	12.6	125	7.5	1,060	12.6	180	58.2	8.88	13.8
SEP 20...	0845	Blank	--	--	--	--	--	--	--	--	--	--
20...	0900	Environmental	38	13.8	167	7.8	853	24.7	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, incrm. titr., mg/L as CaCO ₃ (00419)	Bicar- bonate, wat unfltrd, incrm. titr., mg/L (00450)	Carbon- ate, wat unfltrd, incrm. titr., mg/L (00447)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd mg/L (70300)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
NOV 16...	121	208	208	254	<1	139	.5	77.0	643	<10	2.0	.88	1.63
JAN 19...	80.8	174	175	213	<1	81.4	.4	67.1	509	<10	1.6	.39	4.56
FEB 08...	--	--	--	--	--	--	--	--	--	20	1.2	E.03n	3.88
MAR 29...	--	--	--	--	--	--	--	--	--	<10	5.0	3.54d	10.1d
APR 11...	--	--	--	--	--	--	--	--	--	12	3.4	2.56d	4.47
MAY 24...	136	123	123	150	<1	138	.5	96.0	645	<10	1.3	E.03n	12.7d
JUN 14...	--	--	--	--	--	--	--	--	--	<10	2.0	.92	9.03d
JUL 26...	--	--	--	--	--	--	--	--	--	<10	1.1	E.03n	23.1d
AUG 30...	121	99	98	120	<1	132	.6	110	642	<10	.99	<.04	15.2d
SEP 20...	--	--	--	--	--	--	--	--	--	<10	<.10	<.04	<.06
20...	--	--	--	--	--	--	--	--	--	<10	1.4	.44	7.63d

07052152 WILSON CREEK NEAR BROOKLINE, MO—Continued

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

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC, col/100 mL (31625)	Aluminum, water, fltrd, µg/L (01106)	Aluminum, water, unfltrd recover-able, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Cadmium water, fltrd, µg/L (01025)	Cadmium water, unfltrd, µg/L (01027)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)
NOV 16...	.020	.58	.61	.68	12k	40k	21	72	<2o	.05	.06	1.3	40
JAN 19...	.185	E.01n	.04	.14	4,200k	3,400k	68	185	1.1	.06	.06	1.6	22
FEB 08...	.167	<.02	.07	.14	613k	1,125k	--	--	--	--	--	--	--
MAR 29...	.039	.11	.17	.23	4k	4k	--	--	--	--	--	--	--
APR 11...	.023	.07	.10	.24	1,800k	1,500k	--	--	--	--	--	--	--
MAY 24...	.012	<.02	.06	.13	18k	37k	59	175	3.7d	.14	.10	3.1	53
JUN 14...	.028	.35	.44	.51	8k	73k	--	--	--	--	--	--	--
JUL 26...	.009	.98	.98	1.02	18k	37	--	--	--	--	--	--	--
AUG 30...	.050	.03	.09	.13	65	88k	66	110	.4o	.07	.09	3.0	32
SEP 20...	<.008	<.02	<.04	<.04	--	--	--	--	--	--	--	--	--
SEP 20...	.014	.05	.07	.09	<2b	<2b	--	--	--	--	--	--	--

Date	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover-able, µg/L (01051)	Manganese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover-able, µg/L (71900)	Selenium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover-able, µg/L (01092)
NOV 16...	.47	.65	78.3	<.01	<3o	29.6	28
JAN 19...	.66	.80	71.5	E.01n	3.2	25.9	29
FEB 08...	--	--	--	--	--	--	--
MAR 29...	--	--	--	--	--	--	--
APR 11...	--	--	--	--	--	--	--
MAY 24...	.50	.99	38.9	<.01	12.6d	39.6	45
JUN 14...	--	--	--	--	--	--	--
JUL 26...	--	--	--	--	--	--	--
AUG 30...	.36	.56	16.4	<.01	.2o	26.0	35
SEP 20...	--	--	--	--	--	--	--
SEP 20...	--	--	--	--	--	--	--

Remark codes used in this table:

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

Value qualifier codes used in this table:

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

07052250 JAMES RIVER NEAR BOAZ, MO

LOCATION.--Lat 37°00'24", long 93°21'53", in NE 1/4 NE 1/4 NW 1/4 sec.32, T.27 N., R.22 W., Christian County, Hydrologic Unit 11010002, on left bank 150 ft downstream from Frazier Bridge, 0.2 mi upstream from Turkey Hollow, and 2.0 mi southeast of Boaz.

DRAINAGE AREA.--462 mi².

WATER-DISCHARGE RECORDS

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

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

REMARKS.--No estimated daily discharges. Water-discharge records good. U.S.G.S. satellite telemeter at station. Partially regulated at low flow by Lake Springfield and sewage effluent from Southwest Treatment Plant.

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	56	1,470	2,270	197	351	420	441	258	99	129	51	70
2	54	1,620	1,630	193	339	397	437	247	94	153	55	66
3	49	1,070	1,270	235	339	365	387	236	91	115	54	63
4	55	931	1,040	995	330	365	362	222	92	93	55	55
5	54	762	885	9,990	314	351	342	216	86	86	53	50
6	53	622	895	10,200	317	334	707	209	85	84	195	52
7	53	506	2,500	3,420	335	325	1,060	198	90	80	120	54
8	86	425	2,590	2,340	371	310	1,300	193	148	75	80	58
9	94	369	1,710	1,820	391	319	1,020	191	221	72	69	58
10	72	329	1,320	1,490	405	324	818	178	171	65	64	55
11	280	539	1,070	1,260	404	305	782	171	125	67	62	50
12	422	887	902	1,340	421	292	1,150	159	134	72	58	48
13	237	892	758	8,520	969	274	1,080	153	212	67	54	53
14	212	675	641	4,510	1,680	260	829	331	369	64	49	502
15	249	556	568	2,460	1,340	252	697	276	232	65	56	1,830
16	208	469	508	1,820	1,090	243	618	223	173	60	75	832
17	183	416	462	1,460	903	234	539	205	150	55	77	462
18	168	380	426	1,190	773	213	475	197	131	56	87	301
19	152	351	391	1,030	681	203	429	186	114	125	79	239
20	149	321	359	918	607	190	393	163	105	97	65	247
21	139	298	338	812	571	191	365	146	100	81	57	214
22	132	303	308	740	514	216	354	140	93	72	344	169
23	128	288	289	670	506	740	339	134	90	63	244	138
24	108	807	273	609	527	853	321	131	85	60	213	116
25	110	1,890	256	560	494	726	311	129	79	60	240	108
26	132	1,350	244	518	481	650	359	119	71	58	196	106
27	234	1,240	231	480	460	593	324	116	74	80	144	98
28	368	1,330	220	436	446	574	306	109	75	81	110	96
29	232	1,840	218	429	---	549	302	103	70	65	93	106
30	264	3,960	205	406	---	513	280	100	71	57	86	103
31	233	---	199	378	---	481	---	100	---	52	80	---
MEAN	160	897	806	1,981	584	389	571	179	124	77.7	105	213
MAX	422	3,960	2,590	10,200	1,680	853	1,300	331	369	153	344	1,830
MIN	49	288	199	193	314	190	280	100	70	52	49	48
IN.	0.40	2.17	2.01	4.95	1.32	0.97	1.38	0.45	0.30	0.19	0.26	0.52

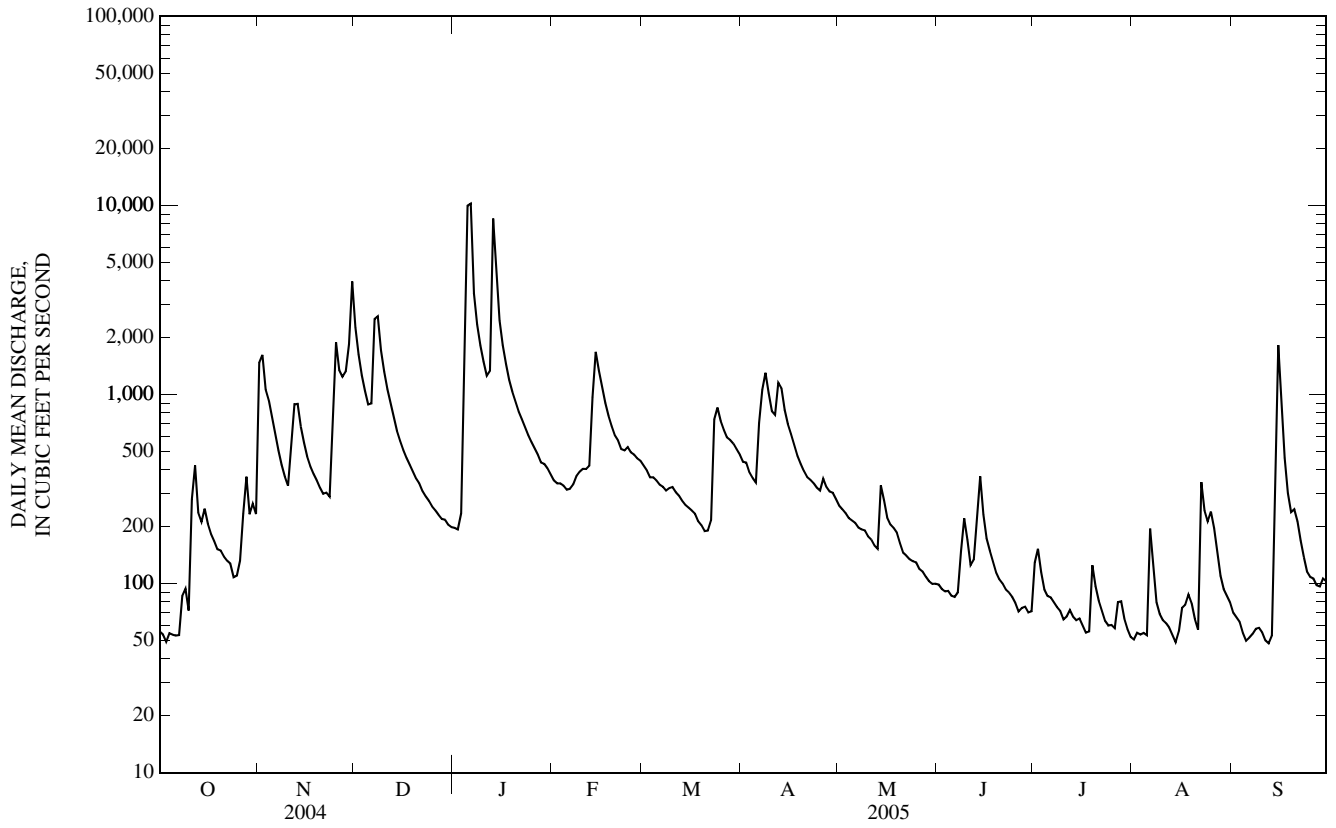
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	197	630	463	525	529	1,064	820	809	396	274	143	246
MAX	444	2,292	1,122	1,981	1,465	2,106	1,755	2,353	1,294	990	359	1,222
(WY)	(1978)	(1973)	(1974)	(2005)	(1975)	(1978)	(1973)	(2002)	(1974)	(1979)	(1979)	(1977)
MIN	63.4	55.1	55.0	53.3	101	183	268	116	124	67.3	54.7	40.7
(WY)	(1977)	(1977)	(1977)	(1977)	(1977)	(1976)	(1977)	(1977)	(2005)	(1980)	(1980)	(1980)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	FOR PERIOD OF RECORD
ANNUAL MEAN	532	507	508
HIGHEST ANNUAL MEAN			879
LOWEST ANNUAL MEAN			242
HIGHEST DAILY MEAN	6,380	10,200	15,400
LOWEST DAILY MEAN	49	48	36
ANNUAL SEVEN-DAY MINIMUM	53	53	38
MAXIMUM PEAK FLOW	---	16,000	21,700
MAXIMUM PEAK STAGE	---	14.35	16.76
INSTANTANEOUS LOW FLOW	---	39	35
ANNUAL RUNOFF (INCHES)	15.69	14.91	14.93
10 PERCENT EXCEEDS	1,200	1,070	1,070
50 PERCENT EXCEEDS	306	244	238
90 PERCENT EXCEEDS	71	63	67

07052250 JAMES RIVER NEAR BOAZ, MO—Continued



07052250 JAMES RIVER NEAR BOAZ, MO—Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 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 16...	1530	Environmental	449	9.5	99	7.8	466	15.9	200	69.1	7.20	3.58	
NOV 16...	1531	Replicate	--	9.5	99	7.7	468	15.9	200	69.3	7.20	3.60	
MAR 29...	1300	Environmental	535	11.9	124	8.1	424	15.0	--	--	--	--	
APR 11...	1500	Environmental	785	8.4	95	8.1	391	18.7	--	--	--	--	
MAY 25...	0855	Environmental	134	6.4	73	7.4	584	19.5	210	70.5	7.21	5.13	
JUN 14...	1015	Environmental	524	6.2	74	7.4	498	21.9	--	--	--	--	
JUL 26...	1455	Environmental	57	7.8	108	7.9	831	30.0	--	--	--	--	
Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd incrm. titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd incrm. titr., field, mg/L (00450)	Carbonate, wat unfltrd incrm. titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat 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...	18.2	174	175	214	<1	26.1	.1	17.5	290	<10	.47	.13	2.54
NOV 16...	18.2	--	--	--	--	26.4	.1	17.5	284	<10	.44	.14	2.60
MAR 29...	--	--	--	--	--	--	--	--	--	10	.27	<.04	1.95
APR 11...	--	--	--	--	--	--	--	--	--	19	.38	<.04	1.72
MAY 25...	37.3	156	157	191	<1	41.8	.2	35.3	339	28	.56	<.04	5.52d
JUN 14...	--	--	--	--	--	--	--	--	--	26	.74	<.04	3.87
JUL 26...	--	--	--	--	--	--	--	--	--	<10	.72	<.04	4.28
Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, col/100 mL (31633)	Fecal coliform, M-FC col/100 mL (31625)	Aluminum, water, fltrd, µg/L (01106)	Aluminum, water, unfltrd recoverable, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Cadmium water, fltrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)
NOV 16...	.070	.06	.09	.12	280	260	5	163	.4	<.04	.04	1.4	E6n
NOV 16...	.070	.06	.09	.10	230	240	4	149	.5	E.02n	E.04n	1.2	E5n
MAR 29...	E.006n	E.02n	E.04n	.05	5k	23k	--	--	--	--	--	--	--
APR 11...	.011	.03	E.03n	.07	88	130	--	--	--	--	--	--	--
MAY 25...	.026	.05	.08	.10	58	76k	2	175	.6	.06	.07	2.1	8
JUN 14...	.013	.12	.18	.23	330	560	--	--	--	--	--	--	--
JUL 26...	.020	.24	.28	.30	12k	26	--	--	--	--	--	--	--

07052250 JAMES RIVER NEAR BOAZ, MO—Continued

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

Date	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover-able, µg/L (01051)	Mangan-ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover-able, µg/L (71900)	Selen-ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover-able, µg/L (01092)	2,6-Di-ethyl-aniline water fltrd 0.7µ GF (82660)	CIAT, water, fltrd, µg/L (04040)	Aceto-chlor, water, fltrd, µg/L (49260)	Ala-chlor, water, fltrd, µg/L (46342)	alpha-HCH, water, fltrd, µg/L (34253)	Atra-zine, water, fltrd, µg/L (39632)
NOV 16...	.09	.91	11.3	<.01	E.3n	3.8	6	<.006	<.006	<.006	<.004	<.005	<.007
NOV 16...	E.07n	.84	10.6	<.01	.6	3.3	5	<.006	<.006	<.006	<.004	<.005	<.007
MAR 29...	--	--	--	--	--	--	--	<.006	<.006m	<.006	<.005	<.005	<.007
APR 11...	--	--	--	--	--	--	--	<.006	<.006m	<.006	<.005	<.005	<.007
MAY 25...	.16	1.19	14.6	<.01	35.0	8.6	13	<.006	<.006m	<.006	<.005	<.005	.014
JUN 14...	--	--	--	--	--	--	--	<.006	<.006m	<.006	<.005	<.005	<.010
JUL 26...	--	--	--	--	--	--	--	<.006	<.006m	<.006	<.005	<.005	<.007

Date	Azin-phos-methyl, water, fltrd 0.7µ GF (82686)	Ben-flur-alin, water, fltrd 0.7µ GF (82673)	Butyl-ate, water, fltrd, µg/L (04028)	Car-baryl, water, fltrd 0.7µ GF (82680)	Carbo-furan, water, fltrd 0.7µGF (82674)	Chlor-pyri-fos water, fltrd, µg/L (38933)	cis-Per-methrin water fltrd 0.7µ GF (82687)	Cyana-zine, water, fltrd, µg/L (04041)	DCPA, water fltrd 0.7µGF (82682)	Diazi-non, water, fltrd, µg/L (39572)	Diel-drin, water, fltrd, µg/L (39381)	Disul-foton, water, fltrd 0.7µ GF (82677)	EPTC, water, fltrd 0.7µ GF (82668)
NOV 16...	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.005	<.02	<.002
NOV 16...	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.005	<.02	<.002
MAR 29...	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004
APR 11...	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004
MAY 25...	<.070m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004
JUN 14...	<.050m	<.010	<.004	E.070m	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004
JUL 26...	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004

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 16...	<.009	<.010	<.003	<.004	<.035	<.027	<.006	<.013	<.006	<.002	<.007	<.003	<.010
NOV 16...	<.009	<.010	<.003	<.004	<.035	<.027	<.006	<.013	<.006	<.002	<.007	<.003	<.010
MAR 29...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010
APR 11...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010
MAY 25...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010
JUN 14...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010
JUL 26...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010

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

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													
16...	<.004	<.022	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005
16...	<.004	<.022	<.011	<.01n	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005
MAR													
29...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034m	<.02	<.010
APR													
11...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.20	<.005	<.02	<.034m	<.02	<.010
MAY													
25...	<.004	<.022	<.011	.04	<.004	<.025	<.011	<.02	<.005	<.02	<.034m	<.02	<.010
JUN													
14...	<.004	<.022	<.011	.15	<.004	<.025	<.011	<.02	<.005	<.02	<.034m	<.02	<.010
JUL													
26...	<.004	<.022	<.011	.09	<.004	<.025	<.011	<.02	<.005	<.02	<.034m	<.02	<.010

Date	Tri- allate, water, fltrd 0.7µ GF (82678)	Tri- flur- alin, water, fltrd 0.7µ GF (82661)
NOV		
16...	<.002	<.009
16...	<.002	<.009
MAR		
29...	<.006	<.009
APR		
11...	<.006	<.009
MAY		
25...	<.006	<.009
JUN		
14...	<.006	<.009
JUL		
26...	<.006	<.009

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

07052345 FINLEY CREEK BELOW RIVERDALE, MO

LOCATION.--Lat 36°58'30", long 93°19'40", in SW 1/4 NW 1/4 NE 1/4 sec.10, T.26 N., R.22 W., Christian County, Hydrologic Unit 11010002, on downstream side of center pier of Aspen Road bridge, 12.4 mi southeast of junction of Highway 160 and 60.

DRAINAGE AREA.--261 mi².

PREIOD OF RECORD.--October 2001 to May 2, 2005.

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

REMARKS.--Records fair Oct. 1 to Dec. 2, poor Dec. 2 to May 2. U.S.G.S. satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--For the period Oct. 1 to May 2, maximum discharge, 7,280 ft³/s, gage height 10.65 ft, Jan. 5; minimum 14 ft³/s, Oct. 2, 6, and 7.

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

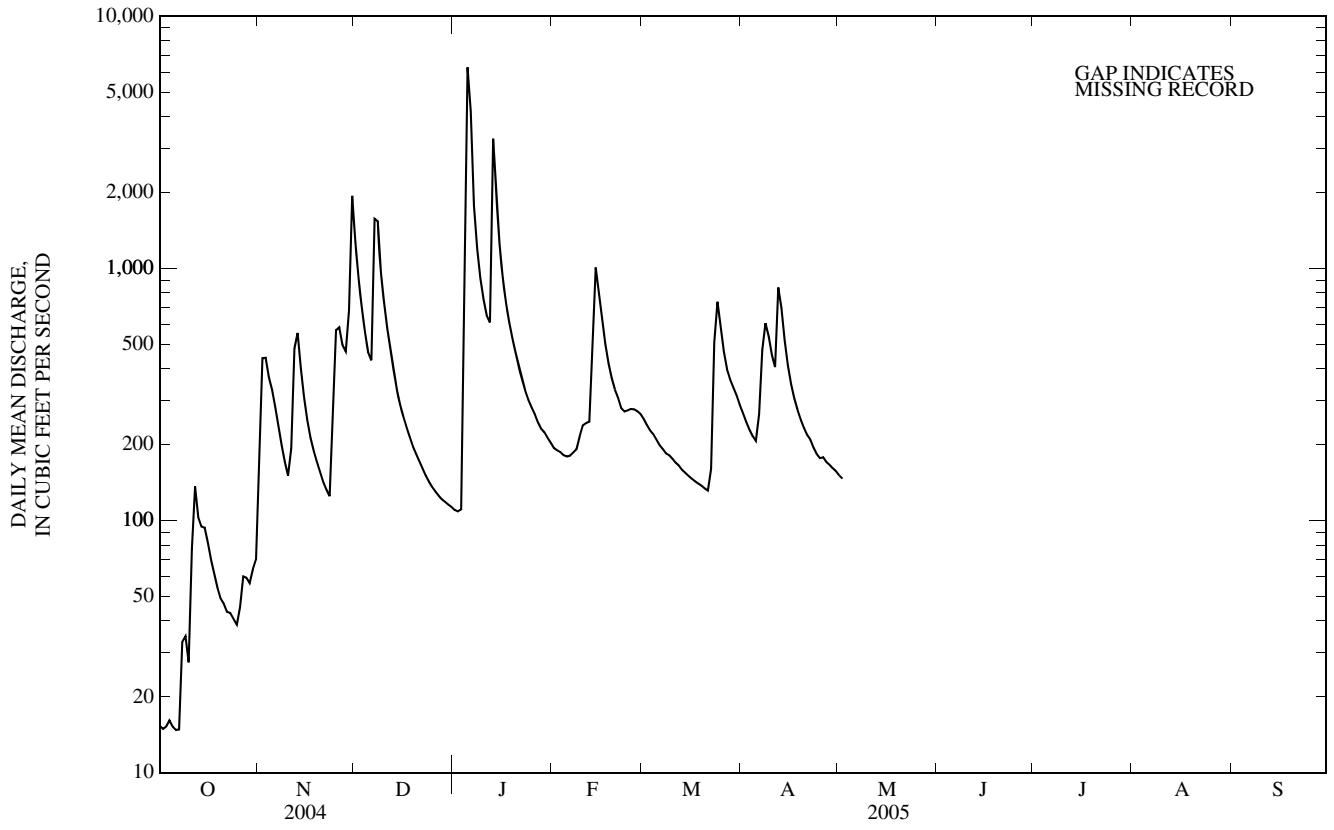
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	195	1,270	110	194	253	267	151	---	---	---	---
2	15	440	911	109	190	239	247	147	---	---	---	---
3	15	442	699	111	187	228	229	---	---	---	---	---
4	16	371	558	811	182	220	216	---	---	---	---	---
5	15	330	465	6,270	180	209	207	---	---	---	---	---
6	15	282	432	4,200	181	199	263	---	---	---	---	---
7	15	236	1,570	1,770	186	192	475	---	---	---	---	---
8	33	199	1,540	1,200	192	185	606	---	---	---	---	---
9	35	171	957	915	216	182	539	---	---	---	---	---
10	27	151	725	754	239	176	454	---	---	---	---	---
11	77	193	574	650	244	170	407	---	---	---	---	---
12	137	482	469	610	247	165	840	---	---	---	---	---
13	103	555	390	3,270	482	159	694	---	---	---	---	---
14	95	402	329	2,130	1,010	155	518	---	---	---	---	---
15	94	309	287	1,250	782	150	412	---	---	---	---	---
16	82	251	258	920	620	147	348	---	---	---	---	---
17	70	214	234	732	501	143	305	---	---	---	---	---
18	62	190	215	613	421	140	275	---	---	---	---	---
19	54	172	197	530	367	138	251	---	---	---	---	---
20	49	156	184	464	331	134	233	---	---	---	---	---
21	47	142	173	413	307	132	219	---	---	---	---	---
22	43	133	162	367	279	160	209	---	---	---	---	---
23	43	125	151	329	271	509	195	---	---	---	---	---
24	41	235	143	302	273	738	183	---	---	---	---	---
25	39	568	136	282	277	584	177	---	---	---	---	---
26	45	583	131	265	276	468	178	---	---	---	---	---
27	60	498	126	246	271	398	171	---	---	---	---	---
28	59	469	122	231	265	362	166	---	---	---	---	---
29	57	681	119	224	---	337	161	---	---	---	---	---
30	64	1,940	116	213	---	314	157	---	---	---	---	---
31	70	---	113	203	---	287	---	---	---	---	---	---
MEAN	51.4	370	444	984	328	254	320	---	---	---	---	---
MAX	137	1,940	1,570	6,270	1,010	738	840	---	---	---	---	---
MIN	15	125	113	109	180	132	157	---	---	---	---	---
IN.	0.23	1.58	1.96	4.35	1.31	1.12	1.37	---	---	---	---	---

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

MEAN	34.4	142	287	373	265	390	413	617	105	75.8	54.7	39.8
MAX	51.4	370	444	984	412	551	567	1,401	150	105	60.6	77.4
(WY)	(2005)	(2005)	(2005)	(2005)	(2002)	(2004)	(2002)	(2002)	(2002)	(2004)	(2002)	(2003)
MIN	23.9	35.4	71.0	95.9	153	224	249	128	68.3	45.3	46.6	18.9
(WY)	(2003)	(2003)	(2003)	(2003)	(2004)	(2003)	(2003)	(2003)	(2004)	(2003)	(2003)	(2004)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR PERIOD OF RECORD
ANNUAL MEAN	248	210
HIGHEST ANNUAL MEAN		318
LOWEST ANNUAL MEAN		105
HIGHEST DAILY MEAN	4,130	10,500
LOWEST DAILY MEAN	15	11
ANNUAL SEVEN-DAY MINIMUM	15	12
MAXIMUM PEAK FLOW	---	21,400
MAXIMUM PEAK STAGE	---	16.31
INSTANTANEOUS LOW FLOW	---	9.6
ANNUAL RUNOFF (INCHES)	12.93	10.92
10 PERCENT EXCEEDS	556	433
50 PERCENT EXCEEDS	142	90
90 PERCENT EXCEEDS	28	24



07052500 JAMES RIVER AT GALENA, MO

LOCATION.--Lat 36°48'19", long 93°27'42", in SW 1/4 SE 1/4 SW 1/4 sec.6, T.24 N., R.23 W., Stone County, Hydrologic Unit 11010002, on downstream side of right pier of first arch span from left end of bridge on old State Highways 13 and 248 in Galena, 0.7 mi upstream from Railey Creek, and 42.3 mi above mouth.

DRAINAGE AREA.--987 mi².

WATER-DISCHARGE RECORDS

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

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

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

REMARKS.--No estimated daily discharges. Water-discharge records good. 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	105	1,070	6,210	283	981	1,320	1,150	544	219	171	131	146
2	106	2,950	4,100	277	930	1,220	1,070	501	215	208	128	137
3	101	2,310	3,070	286	897	1,120	962	475	210	218	129	131
4	99	1,960	2,480	2,790	870	1,060	860	449	206	195	127	129
5	99	1,620	2,100	17,900	835	986	795	432	205	183	130	122
6	99	1,320	1,980	25,200	831	906	1,120	419	197	174	161	115
7	99	1,030	4,320	10,300	862	849	2,210	409	198	171	279	114
8	109	769	7,500	6,670	937	794	2,920	394	210	166	203	115
9	117	601	4,500	5,000	1,030	764	2,720	388	260	162	165	117
10	125	485	3,270	4,040	1,140	773	2,320	375	326	161	150	117
11	129	559	2,610	3,460	1,170	727	2,160	362	265	159	143	112
12	321	1,480	2,170	3,170	1,190	689	2,880	351	235	158	137	107
13	273	2,090	1,820	13,700	1,820	658	3,190	334	252	161	131	104
14	207	1,640	1,540	14,000	3,670	619	2,520	613	329	160	131	128
15	198	1,250	1,310	6,970	3,530	592	2,090	943	427	161	130	1,040
16	199	964	1,130	4,970	2,950	568	1,800	578	301	156	134	2,670
17	180	753	967	3,900	2,520	547	1,580	475	268	149	213	876
18	168	632	839	3,240	2,190	521	1,390	421	250	146	216	508
19	157	546	728	2,850	1,950	492	1,230	383	229	148	186	371
20	148	469	633	2,580	1,780	473	1,100	342	211	188	168	308
21	145	408	580	2,350	1,660	455	1,000	314	200	175	153	319
22	140	367	519	2,120	1,520	481	1,010	299	192	163	203	273
23	138	361	458	1,930	1,430	983	878	295	185	154	335	230
24	133	759	425	1,770	1,520	2,310	796	286	180	147	320	200
25	126	3,000	395	1,660	1,530	2,100	725	281	175	141	267	193
26	132	2,960	373	1,540	1,520	1,830	734	266	170	139	299	181
27	149	2,410	349	1,410	1,480	1,650	761	256	167	148	255	176
28	230	2,490	331	1,280	1,410	1,540	667	248	184	156	212	169
29	213	2,890	316	1,210	---	1,480	630	239	173	160	183	162
30	194	8,070	306	1,150	---	1,390	592	228	165	146	164	167
31	209	---	293	1,070	---	1,250	---	222	---	138	154	---
MEAN	156	1,607	1,859	4,809	1,577	1,005	1,462	391	227	163	185	318
MAX	321	8,070	7,500	25,200	3,670	2,310	3,190	943	427	218	335	2,670
MIN	99	361	293	277	831	455	592	222	165	138	127	104
IN.	0.18	1.82	2.17	5.62	1.66	1.17	1.65	0.46	0.26	0.19	0.22	0.36

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

MEAN	473	856	959	941	1,130	1,521	1,758	1,617	1,133	580	385	411
MAX	2,494	4,407	5,435	4,809	3,485	5,372	8,376	9,549	6,383	4,010	5,159	5,684
(WY)	(1942)	(1973)	(1983)	(2005)	(1966)	(1945)	(1927)	(1943)	(1935)	(1951)	(1927)	(1993)
MIN	58.0	65.3	79.2	68.8	87.4	129	145	179	87.6	46.0	22.6	45.8
(WY)	(1954)	(1954)	(1956)	(1956)	(1954)	(1954)	(1954)	(1936)	(1936)	(1954)	(1954)	(1953)

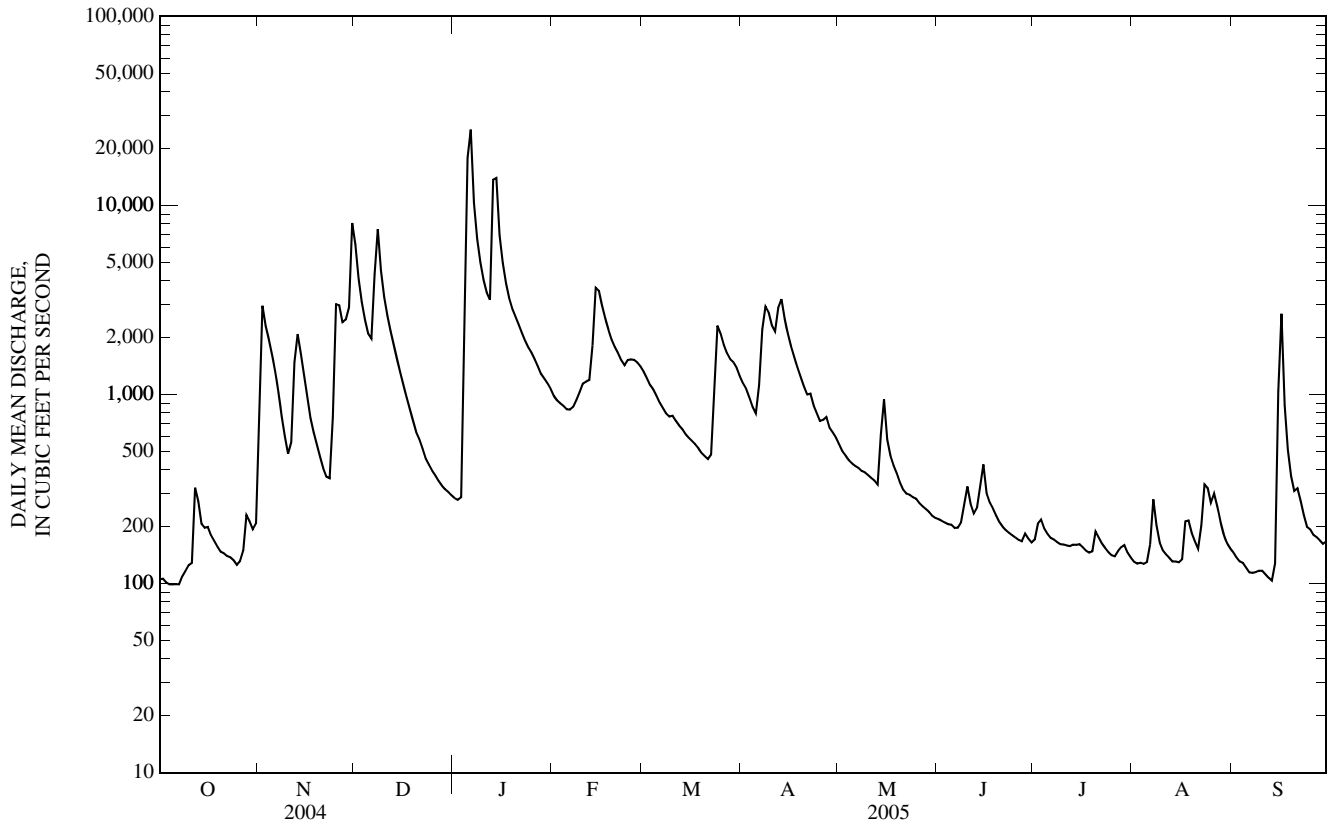
SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1922 - 2005

ANNUAL MEAN	1,121	1,146	979
HIGHEST ANNUAL MEAN			2,499
LOWEST ANNUAL MEAN			119
HIGHEST DAILY MEAN	16,700	Apr 25	25,200
LOWEST DAILY MEAN	99	Oct 4-7	99
ANNUAL SEVEN-DAY MINIMUM	101	Oct 1	101
MAXIMUM PEAK FLOW	---		28,100
MAXIMUM PEAK STAGE	---		18.38
INSTANTANEOUS LOW FLOW	---		96
ANNUAL RUNOFF (INCHES)	15.46		15.76
10 PERCENT EXCEEDS	2,640		2,630
50 PERCENT EXCEEDS	554		421
90 PERCENT EXCEEDS	140		137



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

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 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 04...	1310	Environmental	99	11.3	126	7.9	599	19.3	--	--	--	--
NOV 03...	1515	Environmental	2,200	7.0	72	7.8	393	15.0	200	69.1	6.98	3.33
DEC 14...	0925	Environmental	1,560	10.2	86	7.9	383	7.5	--	--	--	--
JAN 04...	1030	Environmental	451	9.6	91	8.0	391	11.8	170	60.4	5.75	2.51
FEB 07...	1250	Environmental	878	12.5	120	8.2	415	11.1	--	--	--	--
MAR 29...	1230	Environmental	1,500	10.8	108	7.8	363	12.8	--	--	--	--
APR 25...	1410	Environmental	718	10.0	103	8.3	384	14.6	--	--	--	--
MAY 17...	1310	Environmental	474	10.0	114	7.6	383	19.8	170	58.6	5.77	2.60
JUN 13...	1400	Environmental	249	7.7	102	7.9	438	27.0	--	--	--	--
JUL 12...	1520	Environmental	155	9.1	116	7.7	488	26.0	180	62.9	6.70	4.37
AUG 09...	0905	Environmental	170	5.2	67	7.6	527	26.6	--	--	--	--
SEP 13...	1515	Environmental	106	10.0	130	7.7	574	26.9	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, field, titr., mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, field, titr., mg/L (00450)	Carbonate, wat unfltrd, field, titr., mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd, mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)
OCT 04...	--	--	--	--	--	--	--	--	--	<10	.28	<.04	.81
NOV 03...	10.7	162	162	197	<1	17.2	E.1n	11.7	234	<10	.33	E.03n	1.75
DEC 14...	--	--	--	--	--	--	--	--	--	<10	E.10n	<.04	2.91
JAN 04...	12.7	151	151	184	<1	18.4	E.1n	11.7	233	12	.18	<.04	2.85
FEB 07...	--	--	--	--	--	--	--	--	--	<10	.12	<.04	2.69
MAR 29...	--	--	--	--	--	--	--	--	--	<10	.16	<.04	1.95
APR 25...	--	--	--	--	--	--	--	--	--	<10	.21	<.04	1.40
MAY 17...	10.6	147	148	181	<1	16.0	E.1n	9.9	224	<10	.23	<.04	1.81
JUN 13...	--	--	--	--	--	--	--	--	--	<10	.24	<.04	1.79
JUL 12...	30.1	141	139	171	<1	38.3	.2	25.5	292	<10	.32	E.03n	2.19
AUG 09...	--	--	--	--	--	--	--	--	--	<10	.35	E.02n	2.60
SEP 13...	--	--	--	--	--	--	--	--	--	<10	.33	<.04	2.19

07052500 JAMES RIVER AT GALENA, MO—Continued

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

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coli-form, M-FC 0.7 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 04...	<.008	.03	E.03n	.04	1k	3k	--	--	--	--	--	--	--
NOV 03...	.008	E.01n	.07	.09	840k	910k	E1n	139	.4	<.04	E.02n	.9	<6
DEC 14...	<.008	.04	.04	E.04n	30k	46	--	--	--	--	--	--	--
JAN 04...	<.008	E.01n	E.03n	.05	150	140	E1n	223	1.1	E.03n	E.03n	1.0	<6
FEB 07...	E.004n	E.01n	<.04	<.04	13k	3k	--	--	--	--	--	--	--
MAR 29...	.008	.02	<.04	E.03n	11k	9k	--	--	--	--	--	--	--
APR 25...	<.008	<.02	<.04	<.04	9k	32	--	--	--	--	--	--	--
MAY 17...	E.007n	<.02	.05	.06	3k	24	37	2	.5	E.03n	<.04	1.2	35
JUN 13...	E.004n	.07	.09	.09	48	64k	--	--	--	--	--	--	--
JUL 12...	.009	<.02	.08	.09	17k	24	E1n	51	<2o	E.03n	E.04n	1.2	<6
AUG 09...	.014	.09	.10	.11	13k	20	--	--	--	--	--	--	--
SEP 13...	.010	.04	.06	.07	2k	6k	--	--	--	--	--	--	--

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 04...	--	--	--	--	--	--	--
NOV 03...	E.04n	.57	2.8	<.01	1.5	1.7	3
DEC 14...	--	--	--	--	--	--	--
JAN 04...	E.07n	.84	1.9	<.01	2.5	3.5	5
FEB 07...	--	--	--	--	--	--	--
MAR 29...	--	--	--	--	--	--	--
APR 25...	--	--	--	--	--	--	--
MAY 17...	.22	.07	10.2	<.01	<.4	2.7	2
JUN 13...	--	--	--	--	--	--	--
JUL 12...	E.07n	.22	4.3	<.01	<3o	2.9	3
AUG 09...	--	--	--	--	--	--	--
SEP 13...	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than.
E -- Estimated.

Value qualifier codes used in this table:

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

07052820 FLAT CREEK BELOW JENKINS, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°45'02", long 93°37'06", in SW ¼ SE ¼ NE ¼ sec.34, T.24 N., R.25 W., Barry County, Hydrologic Unit 11010002, at Lower Flat Creek Pulfic Access on HWY EE, approximately 4 mi southwest of Jenkins.

DRAINAGE AREA.--190 mi².

PERIOD OF RECORD.--October 2003 to September 2004. October 1999 to September 2003 published as Flat Creek at Jenkins, MO (07052800) before moved to new location.

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 04...	1220	Environmental	32	9.5	105	8.1	320	18.8	--	--	--	--
NOV 03...	1200	Environmental	520	9.6	97	7.5	299	14.1	150	50.6	6.49	2.30
DEC 14...	1110	Environmental	270	11.5	96	8.1	305	7.2	--	--	--	--
JAN 04...	0900	Environmental	147	12.3	114	7.9	299	10.9	150	49.0	6.49	1.68
FEB 07...	1420	Environmental	282	11.2	106	8.2	300	10.9	--	--	--	--
MAR 29...	1030	Environmental	231	10.8	103	7.6	314	11.0	--	--	--	--
APR 25...	1200	Environmental	148	10.9	109	8.2	311	13.5	--	--	--	--
MAY 17...	1110	Environmental	104	9.2	102	7.4	318	17.9	160	51.1	7.09	1.60
JUN 13...	1215	Environmental	65	9.0	114	8.1	321	25.0	--	--	--	--
JUL 12...	1325	Environmental	32	9.7	121	7.8	299	24.6	160	51.2	6.80	1.88
AUG 09...	1130	Environmental	27	8.7	111	7.7	297	25.9	--	--	--	--
SEP 13...	1250	Environmental	15	9.0	115	7.4	293	25.6	--	--	--	--

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)
OCT 04...	--	--	--	--	--	--	--	--	--	<10	E.09n	<.04	1.00
NOV 03...	3.37	119	120	147	<1	6.16	<.1	5.3	175	<10	.16	<.04	2.38
DEC 14...	--	--	--	--	--	--	--	--	--	<10	E.05n	<.04	2.35
JAN 04...	3.41	128	129	157	<1	6.61	<.1	4.2	175	<10	.14	<.04	1.92
FEB 07...	--	--	--	--	--	--	--	--	--	<10	E.07n	<.04	1.90
MAR 29...	--	--	--	--	--	--	--	--	--	<10	.11	<.04	1.48
APR 25...	--	--	--	--	--	--	--	--	--	<10	E.09n	<.04	1.15
MAY 17...	3.41	142	142	174	<1	6.72	<.1	4.1	182	<10	.12	<.04	1.08
JUN 13...	--	--	--	--	--	--	--	--	--	<10	E.09n	<.04	1.03
JUL 12...	4.39	130	130	158	<1	8.14	E.1n	3.8	177	<10	E.09n	<.04	.54
AUG 09...	--	--	--	--	--	--	--	--	--	<10	E.10n	<.04	.39
SEP 13...	--	--	--	--	--	--	--	--	--	<10	.10	<.04	.27

07052820 FLAT CREEK BELOW JENKINS, MO—Continued

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

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coli-form, M-FC 0.7 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 04...	<.008	E.01n	<.04	<.04	4k	45	--	--	--	--	--	--	--
NOV 03...	<.008	.02	E.04n	.04	910k	780k	Mn	113	.2	<.04	E.02n	.5	<6
DEC 14...	<.008	E.01n	<.04	<.04	8k	28	--	--	--	--	--	--	--
JAN 04...	<.008	<.02	<.04	E.02n	820	960	Mn	71	.2	<.04	<.04	.6	<6
FEB 07...	<.008	<.02	<.04	<.04	23k	4k	--	--	--	--	--	--	--
MAR 29...	E.007n	E.01n	<.04	<.04	13k	6k	--	--	--	--	--	--	--
APR 25...	<.008	<.02	<.04	<.04	21	33	--	--	--	--	--	--	--
MAY 17...	<.008	<.02	<.04	<.04	16k	41	E1n	23	E.2n	<.04	.05	.4	<6
JUN 13...	<.008	<.02	<.04	<.04	13k	37	--	--	--	--	--	--	--
JUL 12...	<.008	<.02	<.04	<.04	18k	39	E1n	13	.3	<.04	<.04	E.4n	<6
AUG 09...	<.008	<.02	<.04	<.04	27	50	--	--	--	--	--	--	--
SEP 13...	<.008	E.01n	<.04	E.02n	13k	38	--	--	--	--	--	--	--

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 04...	--	--	--	--	--	--	--
NOV 03...	<.08	.27	2.1	<.01	<.4	.8	E2n
DEC 14...	--	--	--	--	--	--	--
JAN 04...	<.08	.13	1.8	<.01	E.2n	4.5	E1n
FEB 07...	--	--	--	--	--	--	--
MAR 29...	--	--	--	--	--	--	--
APR 25...	--	--	--	--	--	--	--
MAY 17...	E.07n	.10	2.5	<.01	<.4	.7	<2
JUN 13...	--	--	--	--	--	--	--
JUL 12...	.22	<.06	3.5	<.01	E.2n	.7	<2
AUG 09...	--	--	--	--	--	--	--
SEP 13...	--	--	--	--	--	--	--

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

07053400 TABLE ROCK LAKE NEAR BRANSON, MO

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

DRAINAGE AREA.--4,020 mi².

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,862,000 ac-ft, Jan. 15, elevation, 918.65 ft; minimum, 2,362,000 ac-ft, Sept. 30, elevation, 906.69 ft.

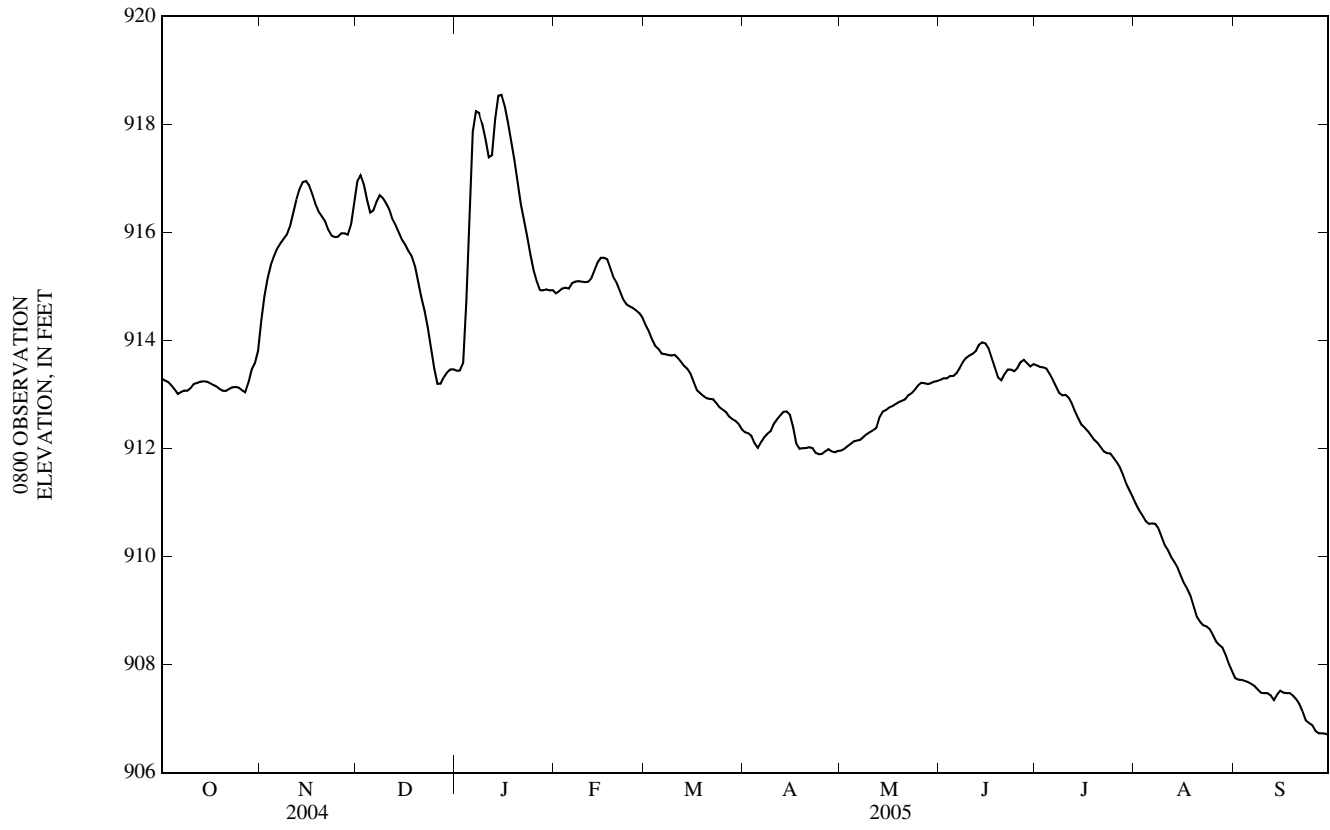
ELEVATION, IN FEET, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	913.35	913.91	916.73	913.46	914.94	914.39	912.32	911.97	913.25	913.59	911.06	907.84
2	913.27	914.58	917.06	913.43	914.84	914.23	912.29	911.96	913.28	913.51	910.93	907.70
3	913.25	914.94	917.06	913.45	914.95	914.14	912.28	912.01	913.31	913.51	910.82	907.73
4	913.22	915.26	916.81	913.65	914.97	913.96	912.21	912.06	913.29	913.50	910.73	907.71
5	913.14	915.46	916.51	915.27	914.98	913.87	912.04	912.10	913.37	913.47	910.62	907.69
6	913.07	915.61	916.30	917.22	914.95	913.83	912.00	912.15	913.33	913.34	910.60	907.67
7	912.98	915.75	916.46	918.18	915.11	913.72	912.18	912.15	913.43	913.24	910.62	907.63
8	913.08	915.82	916.62	918.27	915.08	913.76	912.22	912.17	913.53	913.11	910.60	907.59
9	913.07	915.91	916.72	918.18	915.11	913.72	912.30	912.24	913.64	912.99	910.48	907.51
10	913.07	915.98	916.59	917.91	915.08	913.72	912.33	912.28	913.70	912.98	910.31	907.46
11	913.14	916.18	916.51	917.63	915.08	913.74	912.52	912.32	913.73	913.00	910.16	907.48
12	913.22	916.45	916.38	917.27	915.09	913.65	912.55	912.35	913.76	912.91	910.09	907.47
13	913.21	916.69	916.17	917.51	915.18	913.59	912.64	912.40	913.82	912.79	909.94	907.41
14	913.25	916.86	916.11	918.39	915.36	913.50	912.70	912.67	913.97	912.63	909.87	907.31
15	913.24	916.97	915.94	918.60	915.49	913.46	912.68	912.69	913.96	912.52	909.75	907.51
16	913.24	916.94	915.82	918.52	915.55	913.34	912.60	912.72	913.94	912.40	909.59	907.52
17	913.20	916.83	915.74	918.25	915.52	913.17	912.30	912.78	913.81	912.38	909.46	907.46
18	913.17	916.64	915.61	917.93	915.49	913.03	911.99	912.79	913.60	912.29	909.37	907.48
19	913.14	916.46	915.53	917.57	915.26	913.02	912.00	912.84	913.44	912.21	909.23	907.47
20	913.09	916.34	915.30	917.23	915.11	912.95	912.01	912.87	913.25	912.13	909.01	907.40
21	913.06	916.27	914.98	916.76	915.03	912.92	912.01	912.89	913.27	912.09	908.82	907.34
22	913.07	916.17	914.70	916.42	914.85	912.92	912.03	912.92	913.43	911.99	908.78	907.23
23	913.12	915.98	914.47	916.12	914.71	912.91	912.00	913.02	913.48	911.92	908.70	907.08
24	913.14	915.92	914.12	915.83	914.65	912.81	911.88	913.03	913.45	911.91	908.71	906.91
25	913.14	915.91	913.74	915.48	914.62	912.74	911.90	913.12	913.42	911.91	908.63	906.92
26	913.12	915.93	913.36	915.22	914.59	912.71	911.90	913.19	913.52	911.79	908.51	906.86
27	913.06	916.01	913.12	915.04	914.54	912.66	911.97	913.23	913.64	911.73	908.39	906.73
28	913.03	915.97	913.24	914.88	914.49	912.56	912.00	913.20	913.64	911.61	908.35	906.73
29	913.31	915.95	913.36	914.95	---	912.54	911.92	913.19	913.55	911.46	908.30	906.73
30	913.53	916.23	913.43	914.94	---	912.50	911.93	913.22	913.50	911.29	908.12	906.72
31	913.60	---	913.48	914.92	---	912.43	---	913.25	---	911.19	907.96	---
MEAN	913.18	916.00	915.42	916.40	915.02	913.31	912.19	912.64	913.54	912.50	909.56	907.34
MAX	913.60	916.97	917.06	918.60	915.55	914.39	912.70	913.25	913.97	913.59	911.06	907.84
MIN	912.98	913.91	913.12	913.43	914.49	912.43	911.88	911.96	913.25	911.19	907.96	906.72
(-)	2,642,000	2,760,000	2,637,000	2,699,000	2,680,000	2,593,000	2,572,000	2,628,000	2,638,000	2,542,000	2,411,000	2,363,000
(=)	+10,000	+118,000	-123,000	+62,000	-19,000	-87,000	-21,000	+56,000	+10,000	-96,000	-131,000	-48,000

CAL YR 2004.... +164,000
WTR YR 2005.... -269,000

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

07053400 TABLE ROCK LAKE NEAR BRANSON, MO—Continued



07053450 WHITE RIVER BELOW TABLE ROCK DAM NEAR BRANSON, MO

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

DRAINAGE AREA.--4,020 mi².

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June 1987 to current year. (Seasonally).

DISSOLVED OXYGEN: June 1987 to current year. (Seasonally).

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

REMARKS.--The number of missing days exceeds 20 percent of the year. The monitor was not operated from Jan. 4 to June 14.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.4	11.9	12.2	12.6	12.1	12.3	13.3	12.8	13.1	9.9	9.8	9.9
2	13.2	11.8	12.3	12.6	12.1	12.3	13.3	13.0	13.1	10.0	9.8	9.8
3	13.1	11.5	12.2	12.6	11.9	12.2	13.2	13.0	13.1	10.1	9.8	9.8
4	12.8	11.8	12.2	12.7	12.0	12.4	13.2	13.0	13.1	---	---	---
5	13.0	11.6	12.2	13.3	11.9	12.5	13.1	13.0	13.0	---	---	---
6	12.8	11.5	12.2	13.2	11.9	12.5	13.1	13.0	13.0	---	---	---
7	12.8	11.9	12.2	13.1	12.0	12.5	13.1	13.0	13.1	---	---	---
8	12.9	12.0	12.3	12.9	11.7	12.3	13.0	12.9	13.0	---	---	---
9	12.7	12.0	12.3	12.7	11.6	12.2	13.0	12.9	12.9	---	---	---
10	12.5	11.9	12.1	12.8	11.5	12.2	13.0	12.9	13.0	---	---	---
11	12.4	11.9	12.1	12.6	12.1	12.3	12.9	12.7	12.8	---	---	---
12	12.5	12.0	12.2	12.9	12.1	12.5	12.8	12.6	12.7	---	---	---
13	13.1	12.0	12.4	12.9	11.5	12.2	12.7	12.4	12.6	---	---	---
14	12.6	11.8	12.2	12.5	11.8	12.1	12.4	12.2	12.3	---	---	---
15	13.1	11.8	12.4	12.6	11.9	12.4	12.2	12.1	12.1	---	---	---
16	13.0	11.7	12.4	12.7	12.3	12.5	12.1	12.0	12.0	---	---	---
17	12.5	11.6	12.2	12.8	12.4	12.7	12.0	11.9	11.9	---	---	---
18	13.8	11.8	12.6	12.8	12.7	12.7	11.9	11.8	11.8	---	---	---
19	12.9	11.9	12.3	12.9	12.7	12.8	11.8	11.6	11.6	---	---	---
20	12.6	12.1	12.4	13.0	12.6	12.8	11.6	11.4	11.5	---	---	---
21	12.4	11.9	12.2	12.9	12.6	12.8	11.5	11.3	11.4	---	---	---
22	12.6	12.0	12.3	12.9	12.7	12.9	11.5	11.0	11.2	---	---	---
23	13.1	12.1	12.5	12.9	12.7	12.9	11.0	10.8	10.9	---	---	---
24	12.8	11.7	12.2	13.1	12.8	13.0	10.8	10.5	10.7	---	---	---
25	12.6	11.9	12.3	13.3	13.1	13.2	10.5	10.3	10.4	---	---	---
26	12.8	12.3	12.4	13.3	13.1	13.2	10.4	10.2	10.3	---	---	---
27	12.6	12.3	12.5	13.5	13.1	13.3	10.9	10.2	10.4	---	---	---
28	13.1	12.2	12.5	13.4	13.2	13.3	11.2	10.2	10.5	---	---	---
29	13.0	12.1	12.5	13.3	13.1	13.2	11.3	9.9	10.4	---	---	---
30	13.0	11.9	12.3	13.4	13.1	13.2	11.0	10.0	10.3	---	---	---
31	12.6	11.9	12.2	---	---	---	10.2	9.8	10	---	---	---
MONTH	13.8	11.5	12.3	13.5	11.5	12.6	13.3	9.8	11.9	---	---	---

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

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	JUNE			JULY			AUGUST			SEPTEMBER		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	10.1	9.1	9.4	11.3	9.6	9.8	11.1	9.9	10.2			
2	---	---	---	10.5	9.2	9.7	---	---	---	11.7	10.0	10.5			
3	---	---	---	10.6	9.2	9.7	---	---	---	11.9	10.0	10.4			
4	---	---	---	10.6	9.2	9.6	---	---	---	11.4	9.9	10.3			
5	---	---	---	10.6	9.2	9.5	---	---	---	11.9	9.9	10.3			
6	---	---	---	10.5	9.1	9.6	---	---	---	11.2	9.9	10.2			
7	---	---	---	10.6	9.2	9.6	---	---	---	11.4	9.9	10.3			
8	---	---	---	10.9	9.2	9.6	10.1	9.6	9.8	11.1	9.9	10.2			
9	---	---	---	10.8	9.3	9.8	10.0	9.6	9.8	11.2	10.0	10.3			
10	---	---	---	10.5	9.2	9.7	10.2	9.7	9.8	11.0	9.9	10.4			
11	---	---	---	10.1	9.3	9.5	10.6	9.6	9.9	11.6	9.9	10.3			
12	---	---	---	10.0	9.3	9.5	11.0	9.7	10	11.2	9.9	10.3			
13	---	---	---	10.6	9.2	9.5	11.0	9.8	10.1	11.2	10.0	10.3			
14	---	---	---	10.0	9.3	9.4	10.3	9.8	9.9	11.2	10.2	10.5			
15	10.2	9.0	9.2	9.9	9.3	9.5	10.4	9.8	9.9	11.3	10.2	10.5			
16	9.1	9.0	9.0	10.6	9.3	9.7	10.5	9.8	10.0	11.1	10.2	10.4			
17	9.1	9.0	9.0	10.6	9.3	9.7	10.6	9.8	10.0	11.5	10.0	10.4			
18	9.1	9.0	9.0	11.0	9.4	9.8	11.0	9.9	10.2	11.2	9.9	10.3			
19	9.1	9.0	9.1	10.7	9.4	9.7	10.5	9.9	10.1	10.7	10.0	10.2			
20	9.2	9.0	9.1	10.6	9.3	9.6	11.3	9.9	10.1	11.0	10.2	10.4			
21	10.6	9.0	9.5	10.9	9.4	9.7	11.0	9.8	10.1	11.0	10.1	10.4			
22	10.6	9.1	9.4	11.1	9.4	9.8	10.8	9.9	10.1	11.0	10.2	10.3			
23	10.6	9.1	9.5	11.0	9.4	9.9	10.8	9.9	10.2	10.6	10.2	10.3			
24	10.6	9.1	9.5	10.9	9.4	9.8	11.0	9.9	10.1	10.9	10.2	10.4			
25	10.6	9.1	9.5	11.0	9.4	9.8	10.4	10.0	10.1	11.5	10.2	10.7			
26	10.5	9.1	9.6	11.3	9.6	9.9	11.0	10.0	10.2	10.7	10.2	10.4			
27	9.4	9.0	9.2	10.2	9.5	9.9	11.0	10.1	10.2	11.4	10.3	10.5			
28	9.5	9.0	9.1	10.8	9.5	9.7	11.2	10.0	10.2	11.5	10.2	10.5			
29	9.4	9.1	9.2	10.9	9.5	9.8	10.5	10.0	10.1	11.3	9.8	10.5			
30	9.3	9.2	9.2	11.0	9.5	9.7	11.3	10.0	10.3	11.2	9.8	10.4			
31	---	---	---	10.2	9.5	9.6	11.1	9.9	10.2	---	---	---			
MONTH	---	---	---	11.3	9.1	9.7	---	---	---	11.9	9.8	10.4			

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

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	230	210	219	230	220	226	240	220	229	240	240	240
2	230	210	224	290	220	236	260	220	233	240	240	240
3	240	220	232	250	220	232	230	230	230	250	240	240
4	240	220	224	240	220	228	230	230	230	---	---	---
5	240	220	229	250	220	235	230	220	230	---	---	---
6	230	220	224	250	220	234	230	230	230	---	---	---
7	260	210	231	240	220	229	230	230	230	---	---	---
8	220	220	220	240	220	229	230	220	228	---	---	---
9	230	220	226	250	220	232	230	220	223	---	---	---
10	250	220	233	270	220	234	230	220	224	---	---	---
11	240	220	231	270	220	230	230	220	230	---	---	---
12	230	220	226	240	220	232	230	230	230	---	---	---
13	250	220	226	240	220	233	230	230	230	---	---	---
14	240	220	237	250	220	233	230	230	230	---	---	---
15	260	240	246	240	220	225	230	230	230	---	---	---
16	270	230	250	230	210	223	230	230	230	---	---	---
17	280	230	255	230	220	222	230	230	230	---	---	---
18	260	220	234	220	210	219	230	220	230	---	---	---
19	240	220	228	230	210	215	230	230	230	---	---	---
20	260	220	226	240	210	226	230	230	230	---	---	---
21	230	220	223	250	220	231	250	230	230	---	---	---
22	230	220	223	230	220	222	250	230	230	---	---	---
23	240	220	224	220	210	218	230	230	230	---	---	---
24	250	220	232	240	210	222	230	230	230	---	---	---
25	250	220	226	240	220	227	230	230	230	---	---	---
26	230	220	225	240	220	224	240	230	230	---	---	---
27	240	220	227	230	220	226	250	230	239	---	---	---
28	260	220	228	230	220	228	260	250	255	---	---	---
29	230	220	221	230	220	225	260	240	250	---	---	---
30	240	220	228	230	220	227	250	240	244	---	---	---
31	230	220	227	---	---	---	260	240	246	---	---	---
MONTH	280	210	229	290	210	227	260	220	232	---	---	---
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	258	251	253	241	234	236	255	245	249
2	---	---	---	259	251	255	---	---	---	251	245	248
3	---	---	---	272	250	261	---	---	---	251	244	249
4	---	---	---	263	250	256	---	---	---	252	246	249
5	---	---	---	257	249	254	---	---	---	252	244	249
6	---	---	---	261	251	255	---	---	---	252	243	249
7	---	---	---	263	251	256	---	---	---	251	243	248
8	---	---	---	263	250	255	252	235	243	251	243	248
9	---	---	---	262	250	255	255	242	246	252	246	249
10	---	---	---	258	249	254	249	242	244	252	247	249
11	---	---	---	259	250	255	249	242	244	257	246	250
12	---	---	---	258	250	255	260	241	247	264	246	252
13	---	---	---	259	251	254	252	243	246	257	242	252
14	---	---	---	257	251	253	249	242	245	259	246	255
15	260	---	251	260	251	254	249	242	245	260	247	256
16	250	250	250	258	251	254	250	242	245	261	253	258
17	260	250	252	260	250	255	258	243	248	259	251	256
18	250	250	250	262	250	254	253	241	247	259	252	257
19	250	250	250	261	250	254	257	242	248	259	250	254
20	250	250	250	260	250	253	250	243	246	258	250	254
21	260	250	254	258	250	254	248	241	245	261	252	255
22	260	250	256	261	249	254	252	243	248	260	252	255
23	260	250	255	258	249	254	252	242	248	258	251	253
24	260	250	254	259	250	254	258	243	250	257	250	254
25	260	250	257	257	249	253	255	243	247	257	250	253
26	260	250	255	256	234	244	251	244	248	258	249	253
27	260	250	254	240	235	238	255	248	251	259	251	255
28	250	250	250	242	234	238	254	247	251	263	254	259
29	266	250	252	241	233	237	257	245	248	267	254	259
30	253	249	251	240	233	236	257	243	247	264	254	259
31	---	---	---	241	233	235	253	244	248	---	---	---
MONTH	---	---	---	272	233	251	---	---	---	267	242	253

07053600 LAKE TANEYCOMO AT COLLEGE OF THE OZARKS

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

DRAINAGE AREA.--4,040 mi².

WATER-ELEVATION RECORDS

PERIOD OF RECORD.--May 17, 1984 to current year (elevation only). Prior to Oct. 1, 2004 elevation records available from the Missouri Water Science Center.

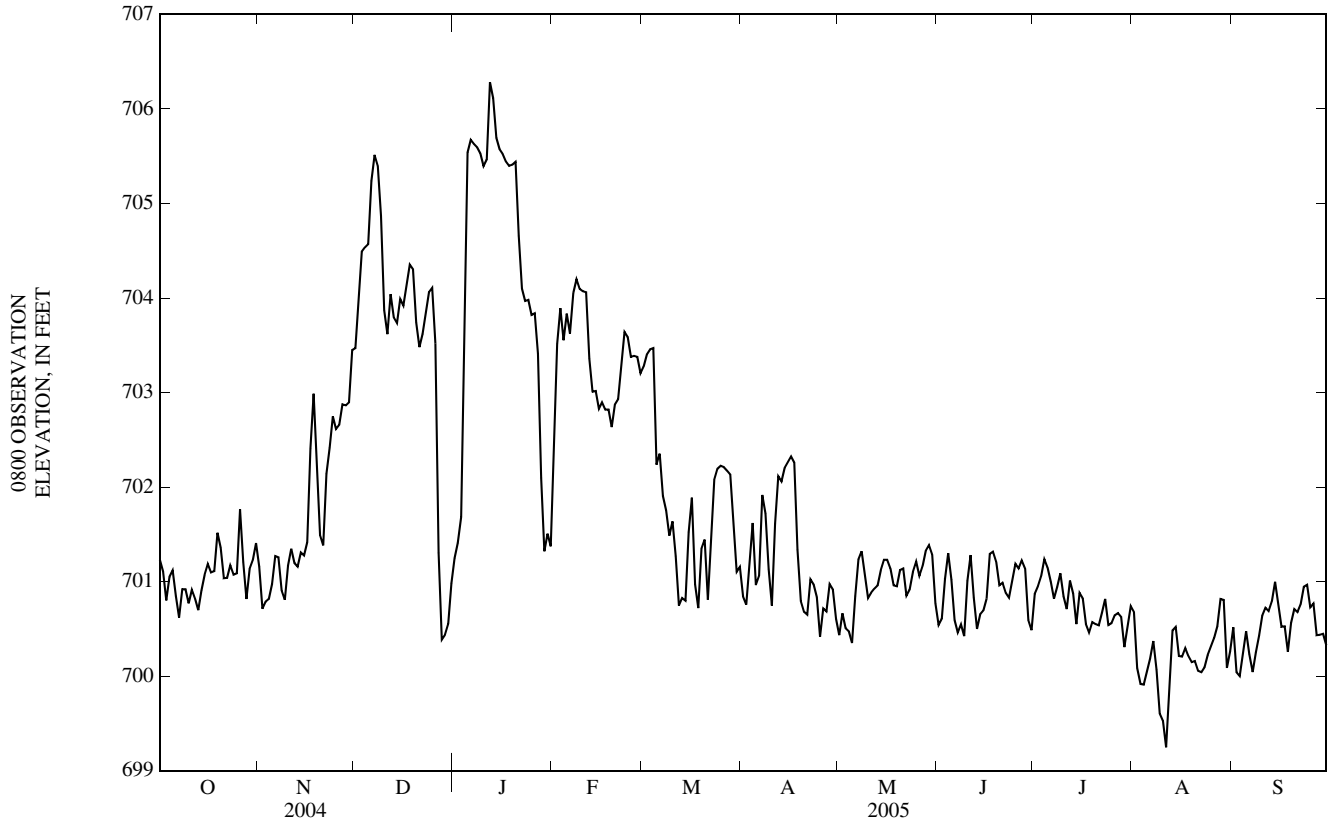
GAGE.--Water-stage recorder. Datum of gage is sea level.

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

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	701.13	701.51	703.71	701.17	701.23	703.13	701.23	700.52	700.54	700.55	700.75	700.51
2	701.28	700.98	703.35	701.29	702.94	703.35	700.65	700.39	700.54	701.03	700.64	700.52
3	701.02	700.58	704.37	701.47	703.80	703.43	700.81	700.80	700.64	700.91	699.81	699.80
4	700.69	700.89	704.55	701.79	703.94	703.47	701.32	700.36	701.22	701.13	699.97	700.10
5	701.23	700.78	704.53	704.70	703.36	703.47	701.77	700.53	701.34	701.29	699.88	700.32
6	701.06	701.07	704.59	705.96	704.07	701.62	700.56	700.26	700.86	701.08	700.14	700.55
7	700.74	701.37	705.56	705.53	703.40	702.72	701.31	701.14	700.46	700.96	700.21	700.07
8	700.56	701.20	705.49	705.68	704.38	701.50	702.22	701.28	700.46	700.75	700.45	700.03
9	701.10	700.76	705.35	705.55	704.11	701.88	701.47	701.34	700.59	701.04	699.88	700.36
10	700.83	700.83	704.63	705.52	704.09	701.29	700.96	700.94	700.34	701.11	699.47	700.46
11	700.74	701.34	703.49	705.33	704.06	701.81	700.64	700.77	701.34	700.71	699.56	700.73
12	701.00	701.35	703.68	705.53	704.06	701.00	702.10	700.94	701.25	700.71	699.09	700.72
13	700.73	701.12	704.22	706.66	703.01	700.62	702.12	700.92	700.62	701.16	700.25	700.67
14	700.68	701.18	703.58	705.84	703.01	700.93	702.03	700.98	700.44	700.73	700.60	700.85
15	701.02	701.37	703.81	705.62	703.02	700.73	702.29	701.19	700.76	700.46	700.48	701.07
16	701.10	701.23	704.08	705.55	702.73	701.92	702.25	701.25	700.66	701.09	700.08	700.61
17	701.23	701.51	703.84	705.51	702.98	701.87	702.36	701.22	700.90	700.69	700.27	700.48
18	701.03	702.86	704.28	705.41	702.74	700.52	702.21	701.10	701.49	700.48	700.31	700.55
19	701.15	703.05	704.39	705.39	702.86	700.82	700.90	700.89	701.23	700.45	700.16	700.11
20	701.70	701.70	704.26	705.42	702.52	701.61	700.74	700.98	701.20	700.63	700.14	700.79
21	701.19	701.39	703.48	705.45	703.05	701.36	700.65	701.19	700.84	700.51	700.17	700.67
22	700.96	701.38	703.48	704.26	702.87	700.53	700.65	701.11	701.06	700.55	700.00	700.68
23	701.08	702.52	703.69	704.02	703.52	701.91	701.21	700.72	700.79	700.73	700.06	700.80
24	701.22	702.36	703.90	703.94	703.70	702.16	700.85	701.01	700.85	700.86	700.11	701.02
25	701.00	702.94	704.14	704.00	703.53	702.21	700.83	701.15	701.08	700.38	700.28	700.94
26	701.13	702.45	704.09	703.73	703.30	702.23	700.21	701.24	701.24	700.65	700.33	700.62
27	702.08	702.76	703.23	703.89	703.43	702.20	700.97	700.97	701.09	700.64	700.44	700.84
28	700.77	702.93	700.34	703.17	703.35	702.16	700.54	701.26	701.29	700.68	700.57	700.23
29	700.84	702.83	700.41	701.56	---	702.12	701.19	701.36	701.06	700.60	700.94	700.54
30	701.28	702.93	700.45	701.20	---	701.29	700.78	701.40	700.36	700.16	700.74	700.40
31	701.20	---	700.60	701.66	---	701.01	---	701.23	---	700.72	699.76	---
MEAN	701.06	701.71	703.66	704.25	703.32	701.83	701.26	700.98	700.88	700.76	700.18	700.53
MAX	702.08	703.05	705.56	706.66	704.38	703.47	702.36	701.40	701.49	701.29	700.94	701.07
MIN	700.56	700.58	700.34	701.17	701.23	700.52	700.21	700.26	700.34	700.16	699.09	699.80

07053600 LAKE TANEYCOMO AT COLLEGE OF THE OZARKS—Continued



07053600 LAKE TANEYCOMO AT COLLEGE OF THE OZARKS--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: May 1984 to current year. (Seasonally).

DISSOLVED OXYGEN: May 1984 to current year. (Seasonally).

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

REMARKS.--The number of missing days exceeds 20 percent of the year. The monitor was not operated from Jan. 3 to June 14.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.3	12.4	12.7	14.7	13.5	14.0	13.4	12.3	13.0	10.8	9.8	10.2
2	13.6	12.3	12.9	15.1	12.8	14.5	13.4	12.4	12.9	10.5	10.0	10.2
3	15.1	13.0	13.7	12.9	12.2	12.6	13.2	12.9	13.0	10.4	10.0	10.1
4	14.3	12.4	13.6	12.7	12.3	12.4	13.2	12.9	12.9	---	---	---
5	13.5	12.1	12.6	13.1	12.0	12.4	---	---	---	---	---	---
6	13.7	11.8	12.4	13.3	12.2	12.7	13.1	12.9	13.0	---	---	---
7	13.4	12.3	12.6	13.4	12.4	12.8	13.2	12.9	13.0	---	---	---
8	14.5	12.6	13.3	13.5	12.3	12.8	13.0	12.8	12.9	---	---	---
9	14.4	12.8	13.4	12.8	11.9	12.3	13.1	12.8	12.9	---	---	---
10	14.4	13.3	13.9	12.6	11.7	12.1	12.9	12.7	12.8	---	---	---
11	13.5	13.0	13.2	12.9	12.4	12.7	13.0	12.5	12.7	---	---	---
12	13.1	12.6	12.9	12.6	12.1	12.3	12.9	12.3	12.6	---	---	---
13	13.9	12.5	13.0	12.4	11.7	12.0	12.6	12.1	12.4	---	---	---
14	13.8	12.0	13.4	11.8	11.4	11.6	12.3	11.7	12.0	---	---	---
15	12.8	11.9	12.3	12.9	11.6	12.2	12.3	11.8	11.9	---	---	---
16	13.2	12.3	12.7	13.0	12.6	12.7	12.1	11.7	11.9	---	---	---
17	13.1	12.1	12.6	13.1	12.4	12.7	12.1	11.7	11.8	---	---	---
18	14.6	12.6	13.2	12.8	12.7	12.7	12.0	11.6	11.7	---	---	---
19	13.6	12.7	13.0	13.0	12.6	12.8	11.6	11.3	11.5	---	---	---
20	13.3	12.7	12.8	13.2	12.8	12.9	11.6	11.2	11.3	---	---	---
21	13.3	13.0	13.2	13.0	12.5	12.8	11.5	11.1	11.2	---	---	---
22	14.4	13.1	13.6	13.0	12.8	12.9	11.2	10.7	10.9	---	---	---
23	14.1	13.0	13.5	13.0	12.9	12.9	10.9	10.4	10.6	---	---	---
24	15.0	13.4	14.0	12.9	12.7	12.9	10.7	10.1	10.4	---	---	---
25	14.0	12.8	13.5	13.5	12.4	12.9	10.6	10.2	10.4	---	---	---
26	13.4	12.7	12.9	13.3	12.6	13.0	10.6	9.9	10.2	---	---	---
27	12.9	12.6	12.7	13.4	13.0	13.2	10.3	9.8	10	---	---	---
28	13.9	12.6	13.1	13.4	12.8	13.1	10.1	9.4	9.8	---	---	---
29	13.9	12.8	13.1	13.1	12.9	13.0	10.3	9.5	9.8	---	---	---
30	14.0	13.4	13.7	13.1	12.7	13.0	10.5	9.6	10	---	---	---
31	13.6	13.2	13.4	---	---	---	11.2	10.5	10.8	---	---	---
MONTH	15.1	11.8	13.1	15.1	11.4	12.8	13.4	9.4	11.7	---	---	---

WHITE RIVER BASIN

07053600 LAKE TANEYCOMO AT COLLEGE OF THE OZARKS—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	JUNE			JULY			AUGUST			SEPTEMBER		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	11.2	9.7	10.1	12.4	9.6	10.1	12.6	10.2	10.7			
2	---	---	---	12.1	9.7	10.7	12.1	9.7	10.1	13.0	10.3	11.2			
3	---	---	---	16.0	12.1	13.7	11.9	9.8	10.1	15.6	12.9	13.9			
4	---	---	---	15.8	10.2	13.1	11.9	9.8	10.1	15.8	13.2	13.9			
5	---	---	---	12.3	9.4	10.4	11.9	9.8	10.3	15.8	13.3	13.9			
6	---	---	---	11.7	9.4	9.8	13.1	10.0	10.8	14.8	10.7	13.2			
7	---	---	---	11.9	9.4	9.9	13.8	11.0	11.9	12.9	10.6	11.2			
8	---	---	---	12.3	9.4	9.9	11.8	9.8	11.0	12.6	10.3	10.9			
9	---	---	---	12.8	9.5	10.6	11.1	9.8	10.1	13.1	10.3	10.8			
10	---	---	---	15.9	10.2	12.8	11.5	9.8	10.1	12.9	10.4	11.3			
11	---	---	---	11.6	9.5	10.3	12.5	9.8	10.4	15.8	12.3	13.6			
12	---	---	---	11.1	9.4	9.8	11.8	10.0	10.3	16.8	10.6	14.3			
13	---	---	---	11.7	9.4	9.8	12.8	10.2	10.6	12.3	10.5	10.9			
14	---	---	---	10.6	9.5	9.7	11.2	10.2	10.4	12.6	10.5	11.3			
15	12.2	9.4	10.0	10.6	9.5	9.8	11.3	10.0	10.3	18.6	11.0	13.3			
16	10.2	9.2	9.6	11.7	9.4	9.8	11.7	10.1	10.4	14.6	10.5	13.3			
17	10.9	9.1	9.7	12.5	9.7	10.2	11.9	10.1	10.4	13.1	10.5	11.5			
18	10.9	9.1	9.6	12.8	9.7	10.2	12.7	10.1	10.5	15.3	12.6	13.6			
19	11.3	9.0	9.7	11.8	9.6	10.1	11.3	10.2	10.4	13.2	10.3	12.1			
20	11.1	9.0	9.6	11.6	9.6	9.9	12.5	10.1	10.4	12.0	10.3	10.7			
21	12.5	9.2	10.0	12.3	9.6	10.0	12.5	10.1	10.6	11.7	10.4	10.7			
22	12.2	9.3	9.8	12.7	9.6	10.1	12.0	10.2	10.7	12.1	10.4	10.7			
23	13.3	9.3	10.1	12.0	9.6	10.1	11.8	10.3	10.7	11.4	10.4	10.6			
24	12.6	9.4	10	13.0	9.7	10.3	13.3	10.1	11.0	11.6	10.3	10.6			
25	12.8	9.6	10.6	12.4	9.7	10.1	11.5	10.1	10.4	13.0	10.5	11.6			
26	13.1	10.2	11.5	12.2	9.7	10.1	12.5	10.2	10.6	12.9	10.5	12.0			
27	12.1	9.4	10.5	11.5	9.7	10.1	13.0	10.3	11.3	12.3	10.4	11.1			
28	11.3	9.2	9.8	12.6	9.6	10.1	13.2	10.4	11.4	14.1	11.2	12.4			
29	11.2	9.2	10	12.2	9.6	10.0	12.0	10.2	10.6	13.7	10.8	11.6			
30	11.3	9.3	10.2	12.7	9.6	10.2	12.0	10.2	10.5	14.3	11.6	12.4			
31	---	---	---	11.7	9.6	10.1	12.4	10.2	10.6	---	---	---			
MONTH	---	---	---	16.0	9.4	10.4	13.8	9.6	10.6	18.6	10.2	12.0			

07053600 LAKE TANEYCOMO AT COLLEGE OF THE OZARKS—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	233	228	231	328	278	317	250	237	241	246	236	239
2	231	227	229	328	251	306	242	238	240	239	236	238
3	233	227	229	328	258	279	240	238	239	239	237	238
4	240	232	237	318	254	266	239	238	239	---	---	---
5	240	234	236	280	244	256	---	---	---	---	---	---
6	237	231	234	267	243	253	240	224	233	---	---	---
7	234	229	232	272	245	254	228	222	224	---	---	---
8	231	224	228	290	248	265	225	221	223	---	---	---
9	237	229	232	270	240	250	221	219	220	---	---	---
10	238	233	235	248	239	243	223	219	221	---	---	---
11	243	234	237	328	241	276	225	220	222	---	---	---
12	253	243	247	287	236	247	229	224	226	---	---	---
13	247	234	240	287	248	259	231	222	226	---	---	---
14	246	238	240	276	248	257	232	228	230	---	---	---
15	247	239	242	253	233	244	233	230	232	---	---	---
16	249	244	247	255	230	236	233	229	231	---	---	---
17	249	246	247	237	225	230	232	230	231	---	---	---
18	247	237	245	229	224	226	233	229	231	---	---	---
19	241	233	236	229	223	225	231	227	230	---	---	---
20	237	234	236	233	223	228	235	229	232	---	---	---
21	251	237	240	237	232	234	238	230	233	---	---	---
22	248	234	238	240	230	233	237	229	233	---	---	---
23	236	232	234	234	225	229	235	229	232	---	---	---
24	243	231	236	242	223	229	237	230	233	---	---	---
25	241	233	236	246	233	239	232	230	231	---	---	---
26	245	234	238	236	231	235	236	230	232	---	---	---
27	242	232	238	241	227	236	240	233	235	---	---	---
28	264	232	241	245	237	240	241	234	238	---	---	---
29	252	231	239	250	236	242	246	238	241	---	---	---
30	256	231	240	245	239	243	252	246	249	---	---	---
31	320	236	250	---	---	---	253	242	248	---	---	---
MONTH	320	224	238	328	223	249	253	219	233	---	---	---
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	254	251	253	258	256	257	244	241	242
2	---	---	---	257	253	255	259	258	258	244	242	243
3	---	---	---	257	251	254	261	258	259	246	242	243
4	---	---	---	254	250	252	260	257	258	245	243	243
5	---	---	---	256	253	254	261	256	258	245	243	244
6	---	---	---	257	253	255	260	256	258	244	242	243
7	---	---	---	257	253	255	260	255	257	244	241	243
8	---	---	---	257	252	254	258	241	250	244	242	242
9	---	---	---	255	252	254	244	241	243	245	240	243
10	---	---	---	257	249	254	245	241	243	248	244	245
11	---	---	---	260	253	254	277	242	252	246	243	244
12	---	---	---	257	254	255	279	243	257	245	243	244
13	---	---	---	258	255	256	283	242	259	244	243	243
14	---	---	---	258	254	256	271	241	256	245	238	242
15	---	---	---	257	252	254	290	243	255	254	233	242
16	---	---	---	254	252	253	285	241	249	257	244	250
17	250	250	250	255	246	251	264	240	248	250	244	246
18	250	250	250	256	246	249	244	240	242	251	245	249
19	250	250	250	260	248	252	243	241	242	247	242	245
20	250	250	250	255	252	254	253	241	243	247	242	244
21	260	250	250	255	252	253	244	238	241	247	243	245
22	260	250	251	256	253	253	250	240	242	247	244	245
23	260	250	254	260	254	257	258	240	243	249	242	244
24	260	250	255	256	253	254	245	240	242	248	241	243
25	260	250	254	255	251	253	243	240	242	243	239	241
26	260	250	254	258	250	254	246	241	243	255	242	246
27	260	250	256	258	253	256	249	245	246	254	244	247
28	260	250	251	261	257	258	249	244	247	253	246	250
29	252	250	250	259	255	257	247	243	245	251	246	249
30	254	250	252	258	255	256	261	239	245	255	249	251
31	---	---	---	257	255	256	243	241	242	---	---	---
MONTH	---	---	---	261	246	254	290	238	249	257	233	245

07053700 LAKE TANEYCOMO AT BRANSON, MO—Continued

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

Date	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 02...	.29	21.8	<.01	E.3n	4.9	3
MAR 28...	--	--	--	--	--	--
APR 26...	--	--	--	--	--	--
MAY 17...	.13	30.9	<.01	<.4	1.6	E2n
JUN 15...	--	--	--	--	--	--
JUN 15...	--	--	--	--	--	--
JUL 13...	--	--	--	--	--	--

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

07053810 BULL CREEK NEAR WALNUT SHADE, MO

LOCATION.--Lat 36°43'04", long 93°12'24", in NW ¼ SE ¼ SE ¼ sec.4, T.23 N., R.21 W., Taney County, Hydrologic Unit 11010003, on downstream side of State Highway F bridge pier, 1.3 miles southwest of Walnut Shade and 3.9 miles upstream from Lake Taneycomo.

DRAINAGE AREA.--191 mi².

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

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

REMARKS.--Records fair except for discharges less than 10 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	0.92	2,250	1,080	44	121	180	159	98	26	22	5.4	4.1
2	1.4	1,020	676	44	128	163	152	90	25	21	4.2	4.1
3	2.1	503	460	53	170	152	141	84	23	18	3.6	4.0
4	2.1	451	339	6,040	167	152	131	80	22	15	2.9	3.8
5	2.5	304	315	6,880	155	147	125	75	21	14	3.1	3.1
6	2.5	218	552	2,660	154	137	427	72	19	12	4.4	2.6
7	2.8	164	2,640	978	196	133	1,750	69	40	11	6.7	2.1
8	16	123	1,220	631	193	130	699	68	61	10	4.6	1.8
9	17	97	731	456	193	129	441	67	41	9.1	3.3	1.4
10	17	108	500	366	181	132	330	64	34	12	3.2	1.1
11	87	949	359	318	169	127	374	61	32	14	2.9	0.74
12	136	723	282	522	170	122	413	56	32	11	2.5	0.53
13	103	402	224	5,300	858	115	323	53	36	11	2.2	0.40
14	85	264	179	1,290	706	109	269	90	48	10	2.1	3.4
15	75	193	152	641	464	105	230	107	40	9.7	2.6	12
16	68	152	133	441	345	e101	201	90	37	8.6	3.4	9.0
17	65	123	120	339	275	e97	179	77	34	7.7	3.8	6.2
18	61	106	110	283	233	92	163	68	29	7.1	4.5	5.0
19	56	97	99	255	205	88	151	62	25	8.3	4.3	4.3
20	51	90	91	231	188	86	139	56	21	7.6	3.8	3.6
21	48	79	86	208	192	83	129	50	19	7.0	3.5	3.4
22	46	70	79	186	182	262	274	47	17	6.3	3.6	3.0
23	48	65	73	164	200	686	184	46	15	6.2	4.1	2.8
24	42	867	68	152	286	449	150	43	14	5.6	4.8	2.5
25	39	1,020	63	144	259	363	133	44	13	5.2	4.8	4.9
26	44	545	57	136	234	305	128	40	12	4.3	4.8	5.7
27	56	582	53	126	214	259	118	38	13	6.1	5.1	4.6
28	67	581	52	119	199	234	114	35	32	8.0	5.3	4.7
29	79	1,340	50	120	---	209	112	33	23	7.4	5.1	6.2
30	364	2,000	48	125	---	189	106	30	19	6.9	4.9	5.5
31	202	---	46	126	---	170	---	28	---	6.4	4.6	---
MEAN	60.8	516	353	948	251	184	275	62.0	27.4	9.95	4.00	3.89
MAX	364	2,250	2,640	6,880	858	686	1,750	107	61	22	6.7	12
MIN	0.92	65	46	44	121	83	106	28	12	4.3	2.1	0.40
IN.	0.37	3.02	2.13	5.72	1.37	1.11	1.61	0.37	0.16	0.06	0.02	0.02

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

MEAN	28.4	219	193	307	319	363	436	305	124	67.3	26.5	18.8
MAX	72.3	1,036	501	948	721	834	1,140	1,253	594	323	155	72.1
(WY)	(1999)	(1997)	(2002)	(2005)	(1997)	(1998)	(2004)	(2002)	(1995)	(2000)	(1997)	(1997)
MIN	4.12	5.49	66.4	58.5	44.0	68.0	63.9	31.4	15.7	8.35	3.02	0.54
(WY)	(2003)	(2003)	(2003)	(2003)	(1996)	(1996)	(2000)	(2000)	(2004)	(1996)	(1996)	(2004)

SUMMARY STATISTICS

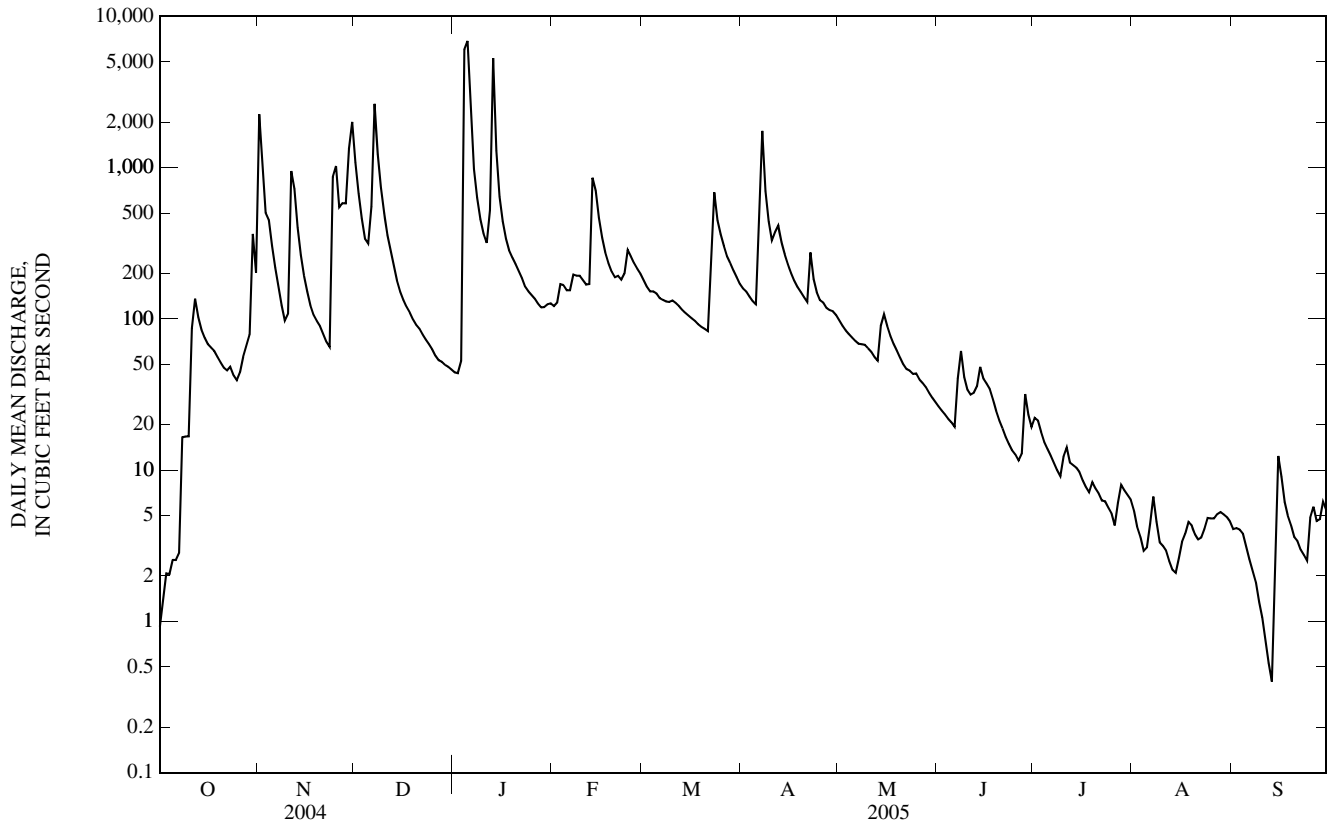
FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

FOR PERIOD OF RECORD

ANNUAL MEAN	275	225	209
HIGHEST ANNUAL MEAN			330
LOWEST ANNUAL MEAN			80.9
HIGHEST DAILY MEAN	18,300	Apr 24	6,880
LOWEST DAILY MEAN	0.14	Sep 14	0.40
ANNUAL SEVEN-DAY MINIMUM	0.21	Sep 11	1.2
MAXIMUM PEAK FLOW	---		10,700
MAXIMUM PEAK STAGE	---		9.29
INSTANTANEOUS LOW FLOW	---		0.29
ANNUAL RUNOFF (INCHES)	19.63		15.96
10 PERCENT EXCEEDS	546		453
50 PERCENT EXCEEDS	79		75
90 PERCENT EXCEEDS	2.3		3.8

e Estimated



07053820 LAKE TANEYCOMO AT POWERSITE DAM AT FORSYTH, MO

LOCATION.--Lat 36°39'34", long 93°07'34", SE¹/₄SE¹/₄NW¹/₄ sec. 8, T.23 N., R.20 W., Taney County, Hydrologic Unit 11010002, on left end of dam structure of Powersite Dam.

DRAINAGE AREA.--4,360 mi².

PERIOD OF RECORD.--Oct. 3, 1984 to current year (gage height only). Prior to Oct. 1, 2004 records available from the Missouri Water Science Center.

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

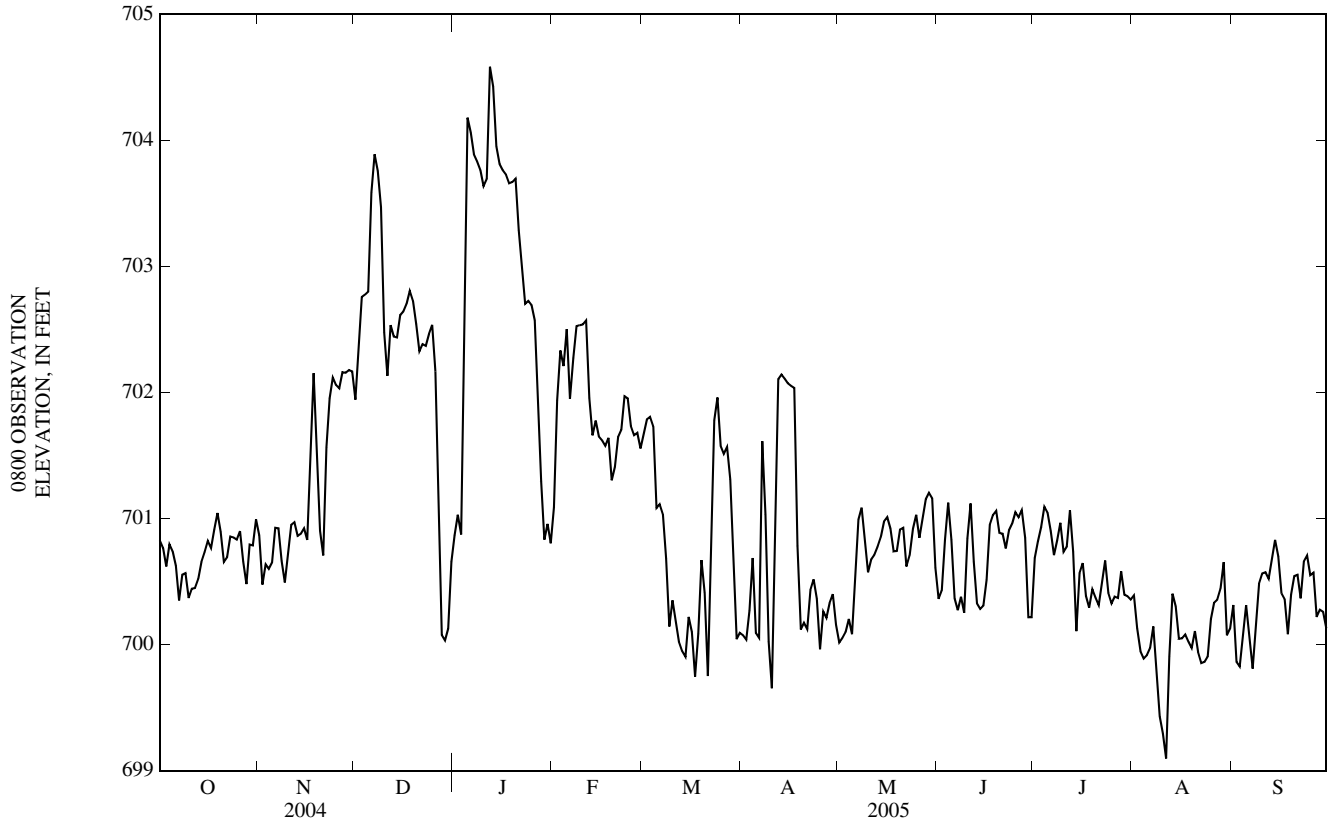
REMARKS.--Regulated by Table Rock Dam upstream and Powersite Dam at gage. U.S. Army Corps of Engineers satellite telemeter at station.

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	700.60	701.14	702.15	700.90	700.67	701.49	700.18	700.05	700.35	700.34	700.31	700.32
2	700.94	700.73	701.84	700.85	701.30	701.76	700.02	700.00	700.37	700.86	700.43	700.31
3	700.68	700.35	702.65	701.12	702.26	701.80	700.05	700.08	700.46	700.80	699.98	699.64
4	700.59	700.78	702.81	700.75	702.37	701.81	e700.38	700.11	701.02	701.00	699.93	699.92
5	700.90	700.51	702.76	703.64	702.13	701.69	700.84	700.25	701.18	701.14	699.87	700.16
6	700.66	700.72	702.82	704.45	702.69	700.78	699.72	700.00	700.66	701.00	699.94	700.39
7	700.61	701.03	703.97	703.87	701.58	701.28	700.22	700.90	700.22	700.85	699.99	699.89
8	700.22	700.87	703.85	703.90	702.62	700.91	702.31	700.04	700.30	700.64	700.22	699.77
9	700.72	700.56	703.71	703.80	702.48	700.57	700.39	701.11	700.42	700.92	699.53	700.39
10	700.49	700.46	703.35	703.75	702.56	699.93	699.84	700.70	700.17	700.99	699.38	700.53
11	700.31	700.83	702.04	703.58	702.53	700.56	699.56	700.51	701.18	700.61	699.25	700.58
12	700.51	701.01	702.18	703.75	702.59	700.01	701.98	700.76	701.09	700.86	699.02	700.57
13	700.42	700.95	702.71	705.00	701.64	700.03	702.17	700.69	700.44	701.17	700.35	700.50
14	700.57	700.82	702.31	704.14	701.67	699.91	702.13	700.82	700.27	700.52	700.43	700.77
15	700.70	700.91	702.50	703.86	701.83	699.90	702.10	700.87	700.29	699.90	700.24	700.86
16	700.75	700.93	702.67	703.79	701.56	700.38	702.06	701.03	700.32	700.90	699.95	700.62
17	700.86	700.78	702.63	703.75	701.65	699.96	702.05	701.00	700.61	700.52	700.10	700.30
18	700.72	702.02	702.74	703.72	701.54	699.64	702.03	700.88	701.12	700.32	700.07	700.39
19	701.01	702.22	702.84	703.63	701.69	700.31	700.16	700.67	700.98	700.28	700.00	699.93
20	701.06	701.11	702.67	703.69	701.11	700.85	700.10	700.78	701.10	700.52	699.96	700.63
21	700.81	700.80	702.48	703.70	701.56	700.19	700.21	700.98	700.78	700.30	700.18	700.50
22	700.58	700.66	702.25	703.08	701.69	699.53	700.08	700.90	700.93	700.32	699.82	700.58
23	e700.75	702.02	702.45	702.95	701.71	701.14	700.61	700.48	700.68	700.58	699.87	700.26
24	e700.91	701.92	702.33	702.58	702.10	702.10	700.47	700.82	701.02	700.71	699.86	700.86
25	700.82	702.22	702.53	702.80	701.88	701.89	700.31	700.97	700.93	700.26	699.93	700.63
26	700.84	701.98	702.54	702.64	701.66	701.42	699.79	701.06	701.11	700.36	700.34	700.51
27	700.93	702.06	701.98	702.54	701.66	701.56	700.50	700.74	700.96	700.39	700.33	700.60
28	700.52	702.21	700.19	701.81	701.69	701.57	700.07	701.12	701.12	700.36	700.37	700.03
29	700.46	702.13	700.02	701.04	---	701.18	700.46	701.17	700.71	700.69	700.48	700.40
30	700.96	702.20	700.04	700.73	---	700.29	700.37	701.22	699.97	700.25	700.74	700.19
31	700.70	---	700.17	701.07	---	699.92	---	701.13	---	700.45	699.74	---
MEAN	700.70	701.23	702.33	702.93	701.87	700.79	700.71	700.74	700.69	700.61	700.02	700.37
MAX	701.06	702.22	703.97	705.00	702.69	702.10	702.31	701.22	701.18	701.17	700.74	700.86
MIN	700.22	700.35	700.02	700.73	700.67	699.53	699.56	700.00	699.97	699.90	699.02	699.64

e Estimated

07053820 LAKE TANEYCOMO AT POWERSITE DAM AT FORSYTH, MO—Continued



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

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

DRAINAGE AREA.--148 mi².

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

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

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfiltered, 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 04...	1130	Environmental	270	8.1	81	7.9	404	14.2	220	50.7	23.5	1.56
NOV 04...	1131	Replicate	--	8.1	81	7.9	403	14.2	220	50.5	23.6	1.58
JAN 03...	1400	Environmental	56	11.9	116	8.2	389	12.9	--	--	--	--
MAR 28...	1335	Environmental	251	12.1	118	7.8	348	11.9	--	--	--	--
MAY 18...	0830	Environmental	39	7.7	83	7.7	431	16.9	240	51.7	26.8	1.39
JUL 13...	1015	Environmental	1.0	7.7	93	7.7	455	23.8	--	--	--	--
SEP 14...	0900	Environmental	1.0	5.4	66	7.6	415	23.5	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfiltered end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfiltered, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfiltered, titr., field, mg/L (00450)	Carbonate, wat unfiltered, 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, unfiltered mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
NOV 04...	1.83	215	215	262	<1	3.92	E.1n	5.8	222	<10	.12	<.04	.52
NOV 04...	1.85	--	--	--	--	3.94	E.1n	5.8	218	<10	.14	<.04	.53
JAN 03...	--	--	--	--	--	--	--	--	--	<10	E.08n	<.04	.24
MAR 28...	--	--	--	--	--	--	--	--	--	<10	E.05n	<.04	.17
MAY 18...	2.02	220	217	268	<1	3.75	E.1n	5.2	243	<10	E.08n	.09	.13
JUL 13...	--	--	--	--	--	--	--	--	--	<10	E.10n	<.04	.10
SEP 14...	--	--	--	--	--	--	--	--	--	<10	.21	E.02n	.10

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, unfiltered 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, unfiltered recoverable, μg/L (01105)	Arsenic water, fltrd, μg/L (01000)	Cadmium water, fltrd, μg/L (01025)	Cadmium water, unfiltered μg/L (01027)	Copper, water, fltrd, μg/L (01040)	Iron, water, fltrd, μg/L (01046)
NOV 04...	<.008	<.02	<.04	<.04	90	110	E1n	14	.3	<.04	<.04	.6	<6
NOV 04...	<.008	<.02	<.04	<.04	94	110	2	12	.2	<.04	<.04	.7	<6
JAN 03...	<.008	<.02	<.04	<.04	55	120	--	--	--	--	--	--	--
MAR 28...	<.008	<.02	<.04	<.04	<1b	5k	--	--	--	--	--	--	--
MAY 18...	<.008	--u	<.04	<.04	140	160	E1n	12	E.1n	<.04	<.04	E.3n	<6
JUL 13...	<.008	<.02	<.04	<.04	75	150	--	--	--	--	--	--	--
SEP 14...	<.008	<.02	<.04	<.04	160k	220k	--	--	--	--	--	--	--

07053900 SWAN CREEK NEAR SWAN, 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 04...	<.08	.06	1.3	<.01	<.4	.7	<2
04...	<.08	E.05n	1.5	<.01	<.4	1.0	E1n
JAN 03...	--	--	--	--	--	--	--
MAR 28...	--	--	--	--	--	--	--
MAY 18...	<.08	.07	4.9	<.01	<.4	1.0	<2
JUL 13...	--	--	--	--	--	--	--
SEP 14...	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than.
E -- Estimated.

Value qualifier codes used in this table:

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

Null value qualifier codes used in this table:

u -- Unable to determine-matrix interference

07054080 BEAVER CREEK AT BRADLEYVILLE, MO

LOCATION.--Lat 36°46'47", long 92°54'26", in NE 1/4 SW 1/4 NW 1/4 sec.11, T.24 N., R.18 W., Taney County, Hydrologic Unit 11010003, on downstream side of right bridge pier on State Highway 76 and 0.5 mi east of Bradleyville.

DRAINAGE AREA.--298 mi².

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

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

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

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

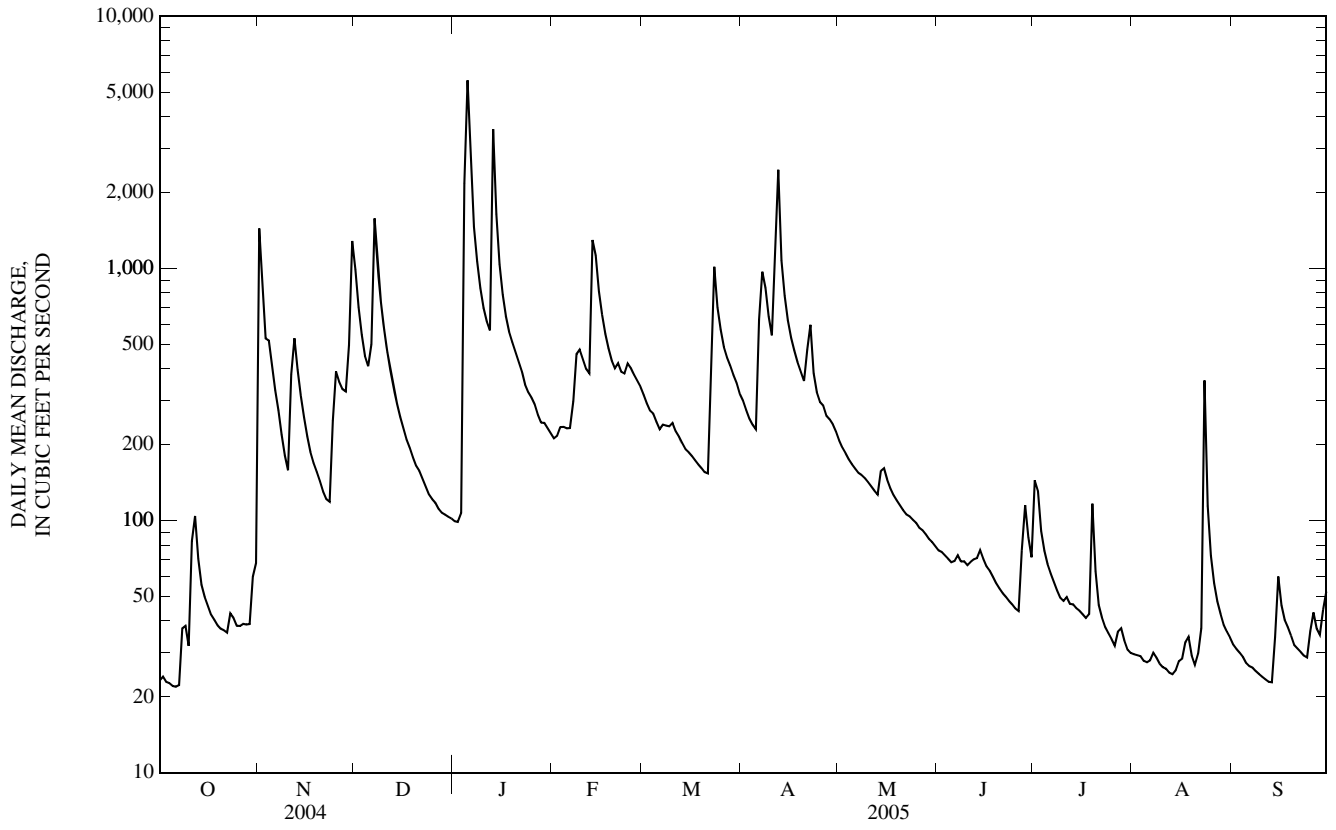
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	1,440	991	99	212	315	299	208	76	144	29	32
2	24	911	702	99	217	291	274	195	75	131	29	31
3	23	528	545	107	235	273	253	185	73	91	29	30
4	23	518	450	2,180	235	266	240	175	71	76	28	29
5	22	413	409	5,570	232	247	230	167	68	67	27	27
6	22	328	500	3,060	233	230	629	161	69	62	28	26
7	22	274	1,580	1,460	297	240	970	155	73	57	30	26
8	37	219	1,040	1,070	457	238	837	151	69	53	29	25
9	38	181	731	835	477	237	645	147	69	49	27	25
10	32	158	571	698	437	244	542	142	67	48	26	24
11	83	380	464	617	400	226	1,270	137	69	50	26	23
12	104	528	398	568	384	215	2,460	131	70	47	25	23
13	70	396	340	3,570	1,300	203	1,080	127	71	47	25	23
14	56	312	291	1,640	1,130	192	778	157	76	45	25	34
15	50	257	258	1,040	811	e187	622	161	70	44	28	60
16	46	216	232	787	654	e181	531	145	66	42	28	e46
17	42	187	210	645	551	e174	473	134	63	41	33	e40
18	40	169	195	561	482	167	426	126	60	43	35	e38
19	38	156	178	510	432	161	390	120	56	117	29	35
20	37	143	165	468	402	155	358	115	54	63	27	32
21	37	130	157	429	421	154	476	110	52	46	30	31
22	36	122	146	390	390	479	598	106	50	41	37	30
23	43	119	136	346	383	1,020	384	104	48	38	359	29
24	41	249	127	323	420	701	323	101	47	36	114	29
25	38	391	122	307	402	572	295	98	45	34	72	36
26	38	355	118	289	378	489	286	94	44	32	56	43
27	39	333	111	263	358	443	260	91	76	36	48	37
28	39	325	107	245	340	412	252	88	115	37	43	35
29	39	497	106	244	---	378	241	85	86	33	39	44
30	60	1,290	104	232	---	351	225	82	71	31	36	52
31	68	---	102	222	---	318	---	79	---	30	34	---
MEAN	42.3	384	374	931	452	315	555	132	66.6	55.2	46.2	33.2
MAX	104	1,440	1,580	5,570	1,300	1,020	2,460	208	115	144	359	60
MIN	22	119	102	99	212	154	225	79	44	30	25	23

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

MEAN	49.9	241	233	354	468	494	542	452	164	84.8	59.1	69.1
MAX	134	1,074	725	931	991	1,349	935	1,540	593	200	168	309
(WY)	(1999)	(1997)	(2002)	(2005)	(1999)	(1998)	(1995)	(2002)	(1995)	(2004)	(1995)	(1996)
MIN	25.9	28.4	62.7	56.8	105	142	70.9	37.8	41.1	30.3	22.5	22.5
(WY)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2001)	(2003)	(2001)	(2001)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1995 - 2005
ANNUAL MEAN	283	281	266
HIGHEST ANNUAL MEAN			464
LOWEST ANNUAL MEAN			62.5
HIGHEST DAILY MEAN	11,200	Apr 24	5,570
LOWEST DAILY MEAN	22	Oct 5-7	22
ANNUAL SEVEN-DAY MINIMUM	23	Oct 1	23
MAXIMUM PEAK FLOW	---		6,230
MAXIMUM PEAK STAGE	---		10.51
INSTANTANEOUS LOW FLOW	---		22
10 PERCENT EXCEEDS	536		606
50 PERCENT EXCEEDS	145		136
90 PERCENT EXCEEDS	34		30

e Estimated



07057500 NORTH FORK RIVER NEAR TECUMSEH, MO

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

DRAINAGE AREA.--561 mi².

WATER-DISCHARGE RECORDS

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

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	283	408	1,680	465	670	835	788	652	444	395	306	285
2	285	1,180	1,320	467	670	792	749	630	439	406	305	284
3	281	870	1,080	559	672	766	716	616	433	392	305	280
4	279	717	939	1,080	672	751	698	603	428	379	302	275
5	279	657	857	2,410	672	736	689	590	423	370	306	274
6	279	594	868	4,130	676	706	696	582	415	367	311	273
7	279	549	1,170	2,610	697	714	696	574	413	362	313	273
8	313	508	1,470	1,880	756	712	702	569	435	356	320	272
9	330	474	1,200	1,490	849	709	694	564	428	351	309	270
10	331	450	1,060	1,290	840	714	689	561	453	350	303	269
11	354	509	934	1,170	805	722	827	555	458	349	301	268
12	383	585	847	1,100	795	722	3,140	546	461	357	296	268
13	381	642	782	3,530	1,070	717	2,280	537	442	364	291	268
14	358	580	721	4,040	1,800	687	1,640	561	437	360	297	324
15	349	532	677	2,370	1,520	668	1,320	563	429	351	306	417
16	346	506	649	1,830	1,300	648	1,140	546	419	348	306	459
17	331	486	626	1,500	1,120	644	1,030	528	410	345	309	422
18	327	473	612	1,320	1,020	641	962	519	405	343	310	373
19	319	464	592	1,220	951	630	915	517	399	419	302	371
20	315	452	578	1,150	915	610	871	511	390	398	299	367
21	311	443	569	1,080	915	597	e824	503	384	367	303	348
22	307	432	558	1,010	888	627	804	499	380	354	303	330
23	443	429	535	925	857	684	e770	495	377	345	327	318
24	443	498	516	875	871	721	e725	492	372	338	324	310
25	399	737	510	857	891	742	711	484	369	330	309	349
26	372	753	503	827	890	729	744	473	369	326	304	380
27	357	707	494	782	877	788	711	465	379	329	301	378
28	351	666	483	743	871	891	694	462	388	326	298	381
29	352	714	478	731	---	903	688	457	384	322	292	375
30	348	1,340	477	710	---	887	673	453	373	316	288	348
31	349	---	473	688	---	836	---	449	---	310	287	---
MEAN	337	612	783	1,446	912	727	953	534	411	356	304	327
MAX	443	1,340	1,680	4,130	1,800	903	3,140	652	461	419	327	459
MIN	279	408	473	465	670	597	673	449	369	310	287	268
IN.	0.69	1.22	1.61	2.97	1.69	1.49	1.90	1.10	0.82	0.73	0.63	0.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2005, BY WATER YEAR (WY)

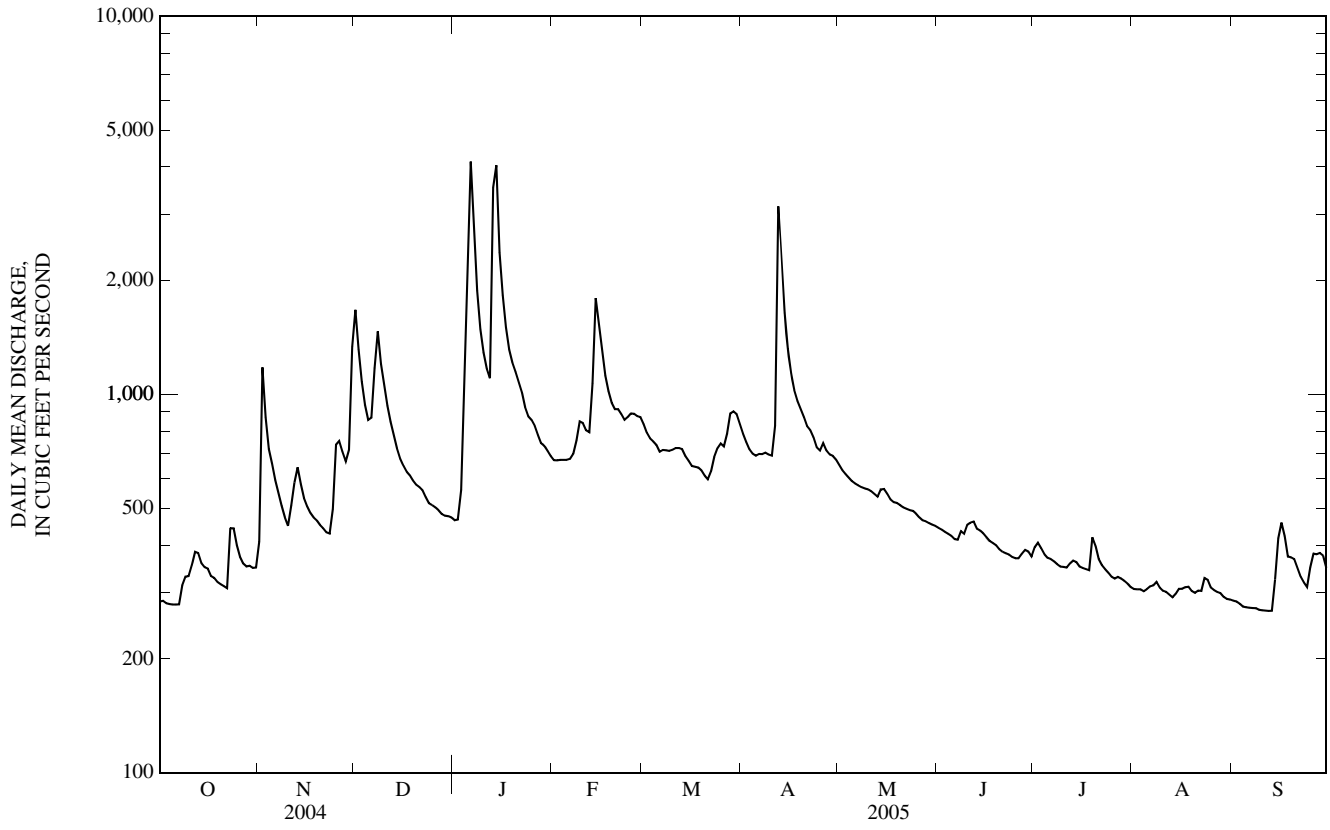
MEAN	406	644	700	726	853	1,058	1,246	1,136	743	529	409	419
MAX	1,040	2,751	2,842	2,322	2,872	2,473	3,623	3,044	2,515	1,632	889	2,093
(WY)	(1985)	(1986)	(1983)	(1950)	(1985)	(1945)	(1945)	(2002)	(1945)	(1951)	(1958)	(1993)
MIN	214	224	223	201	261	290	359	343	276	239	204	193
(WY)	(1957)	(1955)	(1956)	(1956)	(1964)	(1981)	(2000)	(2001)	(1954)	(1954)	(1954)	(1954)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1945 - 2005
ANNUAL MEAN	728	640	738
HIGHEST ANNUAL MEAN			1,555
LOWEST ANNUAL MEAN			299
HIGHEST DAILY MEAN	15,500	4,130	45,100
LOWEST DAILY MEAN	279	268	187
ANNUAL SEVEN-DAY MINIMUM	281	270	188
MAXIMUM PEAK FLOW	---	6,590	133,000
MAXIMUM PEAK STAGE	---	7.57	28.10
INSTANTANEOUS LOW FLOW	---	265	187
ANNUAL RUNOFF (INCHES)	17.68	15.50	17.87
10 PERCENT EXCEEDS	1,020	1,060	1,320
50 PERCENT EXCEEDS	536	503	497
90 PERCENT EXCEEDS	316	305	292

e Estimated

07057500 NORTH FORK RIVER NEAR TECUMSEH, MO—Continued



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

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 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 01...	1200	Environmental	385	9.2	96	7.6	395	16.0	220	46.8	25.6	1.49
JAN 05...	1140	Blank	--	--	--	--	--	--	--	--	--	--
JAN 05...	1145	Environmental	2,350	9.9	94	7.8	305	12.1	--	--	--	--
MAR 28...	1120	Environmental	898	12.8	122	7.8	344	11.9	--	--	--	--
MAY 18...	1320	Environmental	519	13.5	147	7.7	379	17.6	210	41.3	25.5	1.43
JUL 13...	1345	Environmental	364	12.1	136	7.9	386	19.4	--	--	--	--
SEP 14...	1300	Environmental	337	9.2	106	8.0	389	20.8	--	--	--	--

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 01...	1.62	194	195	238	<1	2.85	E.1n	4.1	206	<10	E.09n	<.04	.58
JAN 05...	--	--	--	--	--	--	--	--	--	<10	<.10	<.04	<.06
JAN 05...	--	--	--	--	--	--	--	--	--	29	.42	<.04	.89
MAR 28...	--	--	--	--	--	--	--	--	--	<10	E.07n	<.04	.77
MAY 18...	1.79	193	195	236	<1	3.54	E.1n	3.6	214	<10	.20	<.04	.60
JUL 13...	--	--	--	--	--	--	--	--	--	<10	E.07n	<.04	.70
SEP 14...	--	--	--	--	--	--	--	--	--	<10	.11	<.04	.46

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC MF, col/100 mL (31625)	Aluminum, water, fltrd, 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 01...	<.008	<.04d	<.04	<.04	96	110	2	16	.5	<.04	<.04	.4	E3n
JAN 05...	<.008	<.02	<.04	<.04	--	--	--	--	--	--	--	--	--
JAN 05...	<.008	<.02	E.02n	.06	1,800k	1,900k	--	--	--	--	--	--	--
MAR 28...	<.008	<.02	<.04	<.04	6k	11k	--	--	--	--	--	--	--
MAY 18...	<.008	--u	<.04	<.04	<1b	8k	Mn	19	.3	<.04	.09	E.2n	E4n
JUL 13...	<.008	<.02	<.04	<.04	6k	20k	--	--	--	--	--	--	--
SEP 14...	<.008	<.02	<.04	<.04	37	88	--	--	--	--	--	--	--

07057500 NORTH FORK RIVER NEAR TECUMSEH, MO—Continued

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

Date	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV 01...	.09	E.04n	2.2	<.01	<.4	1.7	E2n
JAN 05...	--	--	--	--	--	--	--
JAN 05...	--	--	--	--	--	--	--
MAR 28...	--	--	--	--	--	--	--
MAY 18...	<.08	.06	2.6	<.01	<.4	E.6n	E1n
JUL 13...	--	--	--	--	--	--	--
SEP 14...	--	--	--	--	--	--	--

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

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

Null value qualifier codes used in this table:

u -- Unable to determine-matrix interference

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

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

DRAINAGE AREA.--214 mi².

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 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 01...	1400	Environmental	1,150	7.8	84	7.5	197	17.1	110	24.6	11.6	4.21
JAN 05...	1015	Environmental	1,200	9.6	87	7.5	224	9.4	--	--	--	--
MAR 21...	1100	Environmental	68	11.5	107	7.8	380	10.6	--	--	--	--
MAY 18...	1055	Blank	--	--	--	--	--	--	--	--	--	--
MAY 18...	1100	Environmental	61	8.9	95	7.7	401	16.6	210	44.1	25.2	1.36
JUL 14...	0910	Environmental	36	6.6	78	7.7	412	22.2	--	--	--	--
SEP 14...	1130	Environmental	41	7.9	93	7.6	409	21.8	--	--	--	--

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 01...	1.08	98	98	120	<1	2.37	<1	3.1	136	151	1.1	<.04	.33
JAN 05...	--	--	--	--	--	--	--	--	--	132	.78	<.04	.48
MAR 21...	--	--	--	--	--	--	--	--	--	<10	E.10n	<.04	.36
MAY 18...	--	--	--	--	--	--	--	--	--	--	.11	<.04	<.06
MAY 18...	3.12	199	197	243	<1	5.60	E.1n	4.1	229	<10	.12	<.04	.30
JUL 14...	--	--	--	--	--	--	--	--	--	<10	.10	<.04	.41
SEP 14...	--	--	--	--	--	--	--	--	--	<10	.16	<.04	.47

Date	Nitrite, water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	E coli, m-TEC MF, col/100 mL (31633)	Fecal coliform, M-FC, col/100 mL (31625)	Aluminum, water, fltrd, μg/L (01106)	Aluminum, water, unfltrd recoverable, μg/L (01105)	Arsenic, water, fltrd, μg/L (01000)	Cadmium, water, fltrd, μg/L (01025)	Cadmium, water, unfltrd, μg/L (01027)	Copper, water, fltrd, μg/L (01040)	Iron, water, fltrd, μg/L (01046)
NOV 01...	E.005n	<.04d	.06	.23	8,500k	7,400k	9	2,120d	.7	E.02n	.25	1.2	26
JAN 05...	<.008	<.02	E.03n	.16	6,000	5,800	--	--	--	--	--	--	--
MAR 21...	E.004n	<.02	<.04	<.04	4k	10k	--	--	--	--	--	--	--
MAY 18...	<.008	--u	<.04	<.04	--	--	--	--	--	--	--	--	--
MAY 18...	E.005n	--u	<.04	<.04	22	48	Mn	22	.3	<.04	<.04	1.0	9
JUL 14...	E.004n	<.02	<.04	<.04	56	73k	--	--	--	--	--	--	--
SEP 14...	<.008	<.04d	<.04	<.04	180	250	--	--	--	--	--	--	--

07057750 BRYANT CREEK BELOW EVANS, MO—Continued

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

Date	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV 01...	E.07n	13.0	2.4	.02	<.4	1.0	23
JAN 05...	--	--	--	--	--	--	--
MAR 21...	--	--	--	--	--	--	--
MAY 18...	--	--	--	<.01	--	--	--
18...	.15	.18	7.8	<.01	<.4	1.5	E1n
JUL 14...	--	--	--	--	--	--	--
SEP 14...	--	--	--	--	--	--	--

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

Null value qualifier codes used in this table:

u -- Unable to determine-matrix interference

07058000 BRYANT CREEK NEAR TECUMSEH, MO

LOCATION.--Lat 36°37'38", long 92°18'22", in E 1/2 sec.32, T.23 N., R.12 W., Ozark County, Hydrologic Unit 11010006, on left bank 0.8 mi downstream from Pine Creek, 3 mi northwest of Tecumseh, and 5 mi upstream from mouth.

DRAINAGE AREA.--570 mi².

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

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

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

REMARKS.--Records fair. 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	148	1,100	1,570	260	417	613	552	454	267	240	168	149
2	151	1,950	1,150	263	418	569	522	434	267	279	166	148
3	149	890	898	342	432	547	499	421	264	253	163	151
4	148	714	741	963	429	549	479	408	258	227	161	149
5	146	597	674	2,980	425	527	468	397	251	214	166	147
6	146	508	749	4,710	430	498	493	388	245	204	170	146
7	148	444	1,190	2,390	460	513	581	383	245	196	166	145
8	183	388	1,320	1,630	497	512	643	379	258	188	159	145
9	240	344	1,050	1,250	528	520	603	373	254	183	154	144
10	202	319	883	1,060	538	565	567	368	261	181	152	141
11	256	395	740	933	516	565	1,170	361	264	183	151	139
12	414	554	644	854	516	549	3,090	351	266	189	148	139
13	388	495	569	4,790	1,120	515	1,770	345	271	198	146	140
14	307	428	498	3,710	1,550	475	1,320	347	247	192	149	170
15	277	385	454	2,100	1,240	e460	1,090	351	231	190	152	253
16	255	356	430	1,570	1,050	443	948	347	216	184	163	251
17	240	334	410	1,290	901	430	847	339	212	179	175	212
18	231	323	394	1,110	807	421	781	336	206	177	185	193
19	220	315	375	1,010	738	413	725	334	199	728	168	192
20	211	301	357	940	700	400	689	331	194	426	157	179
21	204	286	350	878	718	394	645	325	191	296	155	173
22	203	275	337	807	704	490	649	316	187	244	183	163
23	273	272	318	714	679	948	631	312	184	220	189	157
24	262	354	301	663	754	906	575	307	184	204	187	156
25	244	494	293	629	748	800	543	300	185	194	179	190
26	231	486	287	553	713	736	573	294	183	186	174	244
27	239	490	278	500	685	746	533	289	182	187	174	243
28	271	476	269	471	670	737	512	284	187	188	169	247
29	263	700	267	476	---	688	501	278	185	183	162	243
30	245	1,410	265	457	---	650	477	274	185	175	158	231
31	246	---	264	436	---	595	---	271	---	171	153	---
MEAN	230	546	591	1,314	692	573	783	345	224	228	165	179
MAX	414	1,950	1,570	4,790	1,550	948	3,090	454	271	728	189	253
MIN	146	272	264	260	417	394	468	271	182	171	146	139
IN.	0.47	1.07	1.20	2.66	1.26	1.16	1.53	0.70	0.44	0.46	0.33	0.35

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

MEAN	231	400	503	507	626	829	955	881	496	335	225	224
MAX	893	1,664	4,280	2,350	2,129	2,483	3,497	3,059	1,990	1,748	910	654
(WY)	(1971)	(1952)	(1983)	(1950)	(1985)	(1945)	(1945)	(2002)	(1945)	(1951)	(1950)	(1996)
MIN	112	127	119	112	141	138	178	175	118	110	105	103
(WY)	(1957)	(1955)	(1956)	(1956)	(1981)	(1981)	(1981)	(1954)	(1954)	(1954)	(1954)	(1954)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

FOR PERIOD OF RECORD

ANNUAL MEAN	543	488	517
HIGHEST ANNUAL MEAN			1,229
LOWEST ANNUAL MEAN			149
HIGHEST DAILY MEAN	15,700	4,790	52,000
LOWEST DAILY MEAN	143	139	97
ANNUAL SEVEN-DAY MINIMUM	146	142	99
MAXIMUM PEAK FLOW	---	8,380	71,100
MAXIMUM PEAK STAGE	---	12.05	26.74
INSTANTANEOUS LOW FLOW	---	135	96
ANNUAL RUNOFF (INCHES)	12.97	11.63	12.32
10 PERCENT EXCEEDS	757	903	1,020
50 PERCENT EXCEEDS	335	337	261
90 PERCENT EXCEEDS	164	163	141

e Estimated

