

05495000 FOX RIVER AT WAYLAND, MO

LOCATION.--Lat 40°23'33", long 91°35'52", in NW ¼ sec.31, T.65 N., R.6 W., Clark County, Hydrologic Unit 07110001, on left bank 30 ft downstream from bridge on U.S. Highway 136, 0.8 mi west of Wayland, 5.0 mi downstream from Brush Creek, and at mile 15.2.

DRAINAGE AREA.--400 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1922 to current year.

REVISED RECORDS.--WSP 785: 1934. Revised daily mean discharges for the period Aug. 9, 1977, to Sept. 30, 1977, and the annual maximum peak for the 1977 water year published in WDR-MO-79-1.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 501.52 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1929, nonrecording gage at bridge 2.8 mi upstream at different datum; Oct. 1, 1929, to June 11, 1936, nonrecording gage at bridge 90 ft upstream; June 1936 to August 1988 at site 300 ft upstream, at present datum.

REMARKS.--Water-discharge records fair except for estimated daily discharges and discharges below 20 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	22	755	162	102	e213	131	66	105	44	19	12	5.8
2	25	1,700	134	193	e190	117	58	93	37	19	9.8	4.2
3	24	816	109	594	e186	106	55	85	34	19	8.4	3.1
4	23	765	95	1,040	e183	102	55	80	43	19	7.6	3.2
5	25	825	98	805	e181	100	55	77	774	26	7.4	3.8
6	23	408	762	390	e234	95	56	73	548	28	7.2	3.2
7	21	246	1,260	e219	330	92	63	71	222	27	6.4	2.8
8	59	172	1,230	e166	611	88	73	70	116	22	4.6	2.5
9	162	135	484	e132	367	82	88	69	392	17	3.9	2.1
10	67	115	281	e113	e207	79	80	72	714	15	3.6	1.9
11	44	101	205	177	e163	76	77	69	574	14	3.3	1.6
12	34	88	164	398	e189	73	905	136	741	15	3.5	1.6
13	33	77	131	1,700	1,930	69	3,290	641	577	13	7.7	4.2
14	66	71	88	934	4,600	63	1,280	288	595	12	14	22
15	68	68	e86	618	1,730	60	516	310	249	11	24	18
16	50	65	e78	e417	732	57	299	176	139	12	18	15
17	40	64	e73	e337	416	58	211	116	91	10	14	12
18	33	64	e70	e260	278	59	164	92	72	9.4	13	6.3
19	29	64	e70	e213	207	58	135	93	57	9.7	12	4.9
20	27	64	e78	e180	192	58	115	79	43	9.3	19	6.9
21	27	61	77	e155	231	55	124	66	35	8.2	27	7.8
22	73	56	74	e139	222	55	1,060	60	33	9.5	24	5.4
23	784	53	e64	e127	192	78	884	55	30	8.6	22	4.0
24	346	56	e52	e117	165	107	898	49	26	8.9	14	6.2
25	150	52	44	e110	150	129	385	44	23	7.0	11	5.2
26	140	50	42	169	138	153	237	41	21	9.3	11	3.6
27	296	140	41	1,270	127	135	183	39	20	13	11	4.3
28	442	184	42	e1,070	133	115	155	38	19	15	8.4	19
29	308	123	47	e506	---	97	132	42	18	19	8.7	27
30	209	140	54	e352	---	86	117	47	20	16	7.6	18
31	231	---	72	e265	---	76	---	48	---	15	6.8	---
MEAN	125	253	202	428	518	87.4	394	107	210	14.7	11.3	7.52
MAX	784	1,700	1,260	1,700	4,600	153	3,290	641	774	28	27	27
MIN	21	50	41	102	127	55	55	38	18	7.0	3.3	1.6
IN.	0.36	0.70	0.58	1.23	1.35	0.25	1.10	0.31	0.59	0.04	0.03	0.02

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

MEAN	161	170	138	165	334	430	459	390	388	241	123	167
MAX	1,313	1,375	1,330	1,133	1,433	2,264	2,750	2,795	2,223	3,387	1,509	1,999
(WY)	(1987)	(1929)	(1983)	(1969)	(1982)	(1979)	(1973)	(1996)	(1947)	(1993)	(1970)	(1970)
MIN	0.00	0.01	0.02	0.19	0.42	8.56	2.35	1.39	0.06	0.21	0.02	0.17
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1956)	(1956)	(1956)	(1956)	(1936)	(1936)	(1937)

SUMMARY STATISTICS

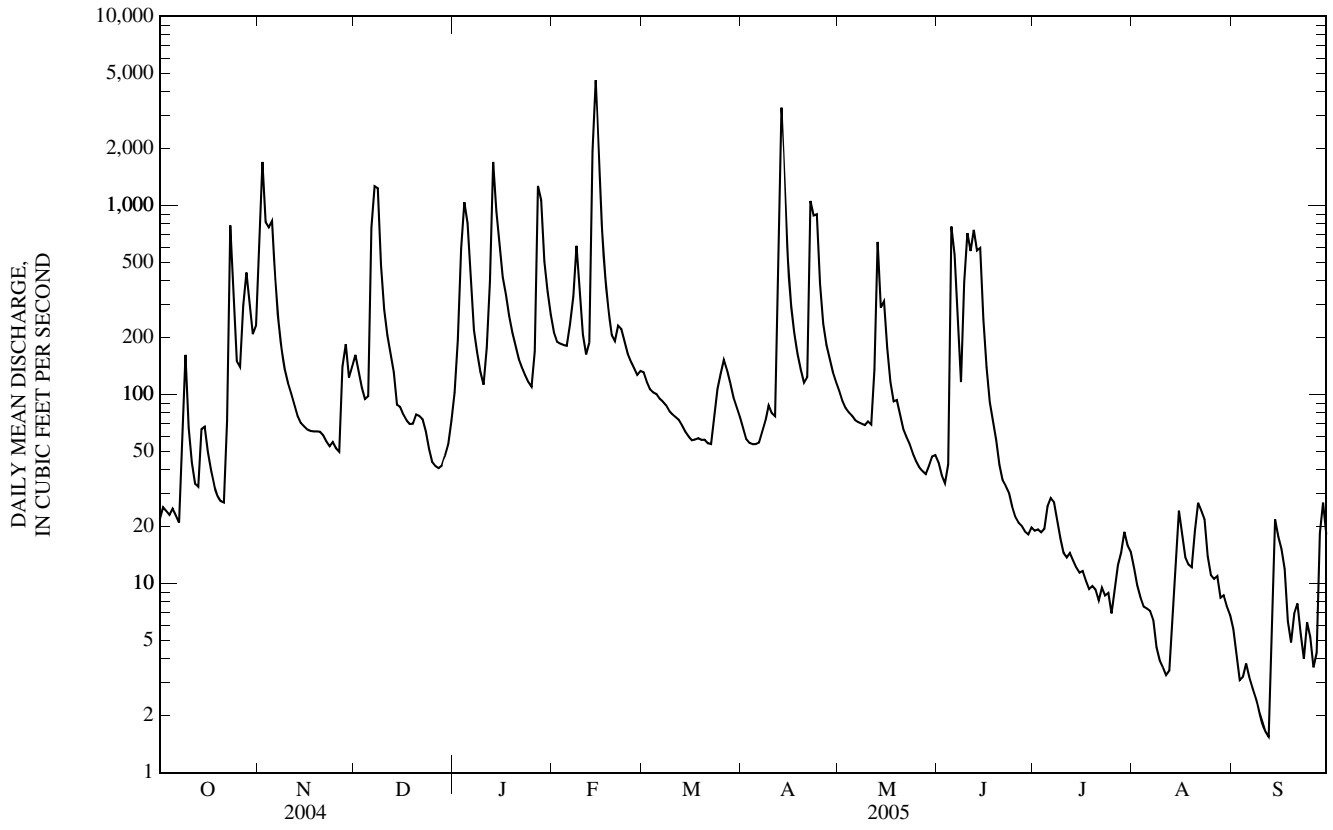
FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1922 - 2005

ANNUAL MEAN	274	194	264
HIGHEST ANNUAL MEAN			927
LOWEST ANNUAL MEAN			17.6
HIGHEST DAILY MEAN	9,670	Aug 28	4,600
LOWEST DAILY MEAN	13	Aug 1	1.6
ANNUAL SEVEN-DAY MINIMUM	15	Jul 27	2.2
MAXIMUM PEAK FLOW	---		5,290
MAXIMUM PEAK STAGE	---		13.62
INSTANTANEOUS LOW FLOW	---		1.5
ANNUAL RUNOFF (INCHES)	9.32		6.57
10 PERCENT EXCEEDS	548		529
50 PERCENT EXCEEDS	70		71
90 PERCENT EXCEEDS	25		8.0
			2.4

e Estimated



MISSISSIPPI RIVER BASIN ABOVE MISSOURI RIVER

05495000 FOX RIVER AT WAYLAND, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1967 to September 1972, 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, mg/L (00915)	Magnesium, water, mg/L (00925)	Potassium, water, mg/L (00935)	
NOV 01...	1540	Environmental	794	11.9	115	7.4	296	12.5	130	38.3	8.19	8.43	
JAN 04...	1345	Environmental	1,010	14.4	101	7.1	148	.7	--	--	--	--	
MAR 08...	1140	Environmental	8.7	12.9	103	8.0	528	4.9	--	--	--	--	
MAY 02...	1320	Environmental	92	10.3	94	8.1	546	10.7	260	73.7	17.3	4.54	
JUL 26...	1425	Environmental	9.2	6.2	82	8.2	512	28.3	--	--	--	--	
SEP 07...	0820	Environmental	2.7	5.5	64	7.8	519	22.2	--	--	--	--	
SEP 07...	0821	Replicate	--	5.6	65	7.9	519	22.2	--	--	--	--	
Date	Sodium, water, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	Chloride, water, mg/L (00940)	Fluoride, water, mg/L (00950)	Sulfate, water, 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, mg/L as N (00608)	Nitrite + nitrate, water, mg/L as N (00631)
NOV 01...	6.97	97	97	118	<1	11.0	.2	24.6	187	354d	1.8	<.04	.53
JAN 04...	--	--	--	--	--	--	--	--	--	1,020d	2.8	.20	1.68
MAR 08...	--	--	--	--	--	--	--	--	--	13	.35	<.04	.52
MAY 02...	15.4	173	175	213	<1	11.8	.2	72.9	--o	16	.47	<.04	.52
JUL 26...	--	--	--	--	--	--	--	--	--	25	.77	<.04	<.06
SEP 07...	--	--	--	--	--	--	--	--	--	37	.73	<.04	.10
SEP 07...	--	--	--	--	--	--	--	--	--	42	.75	<.04	.10
Date	Nitrite, water, mg/L as N (00613)	Orthophosphate, water, mg/L (00671)	Phosphorus, water, 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, unfltrd, μ g/L (01106)	Aluminum, water, unfltrd recoverable, μ g/L (01105)	Arsenic, water, mg/L (01000)	Cadmium, water, mg/L (01025)	Cadmium, water, unfltrd, mg/L (01027)	Copper, water, mg/L (01040)	Iron, water, mg/L (01046)
NOV 01...	E.006n	.12	.15	.59	3,900	3,200k	5	3,500d	1.4	E.03n	.19	2.3	43
JAN 04...	.013	.04	.10	.98	3,100	3,600	--	--	--	--	--	--	--
MAR 08...	E.005n	<.02	<.04	.04	3k	43	--	--	--	--	--	--	--
MAY 02...	<.008	<.02	E.03n	.06	41	82k	2	184	.8	<.04	E.02n	1.5	7
JUL 26...	<.008	<.02	E.03n	.08	640	900k	--	--	--	--	--	--	--
SEP 07...	<.008	<.18d	E.02n	.08	140	160	--	--	--	--	--	--	--
SEP 07...	<.008	<.18d	E.02n	.08	160	160	--	--	--	--	--	--	--

05495000 FOX RIVER AT WAYLAND, MO—Continued

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

Date	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV 01...	<.08	6.63	22.4	.02	.5	1.1	21
JAN 04...	--	--	--	--	--	--	--
MAR 08...	--	--	--	--	--	--	--
MAY 02...	<.08	.30	68.7	<.01	.9	.6	2
JUL 26...	--	--	--	--	--	--	--
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:

o -- Insufficient amount of water

MISSISSIPPI RIVER BASIN ABOVE MISSOURI RIVER

05496000 WYACONDA RIVER ABOVE CANTON, MO

LOCATION.--Lat 40°08'32", long 91°33'57", in SW ¼ SW ¼ NE ¼ sec.28, T.62 N., R.6 W., Lewis County, Hydrologic Unit 07110001, on left bank on downstream side of bridge on State Highway 16, 1.9 mi upstream from Sugar Creek, 2.5 mi west of Canton, and at mile 16.7.

DRAINAGE AREA.--393 mi².

PERIOD OF RECORD.--October 1932 to September 1972, October 1979 to current year.

REVISED RECORDS.--WDR MO-92-1: (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 517.41 ft above National Geodetic Vertical Datum of 1929. Prior to May 1, 1939, nonrecording gage 500 ft downstream at datum 2.00 ft lower; Sept. 25, 1975, to Sept. 17, 1979, nonrecording gage at present site and at datum 2.00 ft lower.

REMARKS.--Records fair except for estimated daily discharges and discharges below 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	14	1,570	362	121	e135	142	91	102	38	21	8.3	5.8
2	15	2,780	277	240	e126	129	81	89	33	20	7.3	4.8
3	17	1,300	214	812	e124	117	78	85	31	20	5.9	3.9
4	17	1,410	166	2,000	e122	116	75	75	33	20	5.4	3.5
5	14	1,410	175	1,460	e134	113	70	68	769	20	6.5	4.0
6	13	602	1,290	829	169	107	69	63	912	20	6.5	4.0
7	13	342	1,680	388	245	104	70	60	212	19	6.8	3.8
8	100	233	1,740	e226	516	99	73	58	105	18	6.3	3.5
9	269	171	731	e176	e339	94	80	55	791	16	5.2	2.0
10	116	132	404	e152	e199	89	77	61	877	14	4.1	3.0
11	57	115	287	e223	e154	87	73	69	866	14	3.3	4.6
12	60	94	222	e620	e178	86	546	240	822	14	3.5	5.1
13	120	79	170	3,070	1,650	84	3,220	1,290	692	14	5.9	5.4
14	186	68	113	1,400	4,030	79	2,160	866	717	13	15	4.7
15	114	65	e82	453	3,280	74	669	419	330	12	28	19
16	69	60	e74	e273	1,070	72	347	216	154	11	20	19
17	47	58	e70	e401	518	71	237	133	93	10	12	12
18	36	56	e67	e273	329	71	186	98	70	11	9.8	9.9
19	32	56	e65	e223	250	70	153	88	58	11	10	7.8
20	28	55	e74	e192	224	70	130	90	48	11	12	7.7
21	27	54	75	e166	243	68	120	68	39	10	16	8.3
22	43	51	e70	e152	239	69	1,350	58	34	9.7	36	7.3
23	1,970	46	e59	e144	202	203	1,660	53	31	8.8	19	6.2
24	822	45	e49	e137	177	294	729	47	28	9.4	11	5.8
25	260	46	e42	e135	164	428	369	42	27	9.2	9.1	5.3
26	357	52	e39	e145	153	316	248	39	24	9.9	8.9	5.6
27	994	645	e39	225	142	220	189	37	24	15	8.0	5.8
28	777	755	e39	377	142	167	152	34	24	12	7.4	5.6
29	1,110	266	e45	244	---	137	128	32	21	11	6.6	6.0
30	442	251	e54	185	---	119	115	38	21	10	6.2	8.5
31	323	---	e73	e151	---	105	---	47	---	9.4	6.2	---
MEAN	273	429	285	503	545	129	452	152	264	13.7	10.2	6.60
MAX	1,970	2,780	1,740	3,070	4,030	428	3,220	1,290	912	21	36	19
MIN	13	45	39	121	122	68	69	32	21	8.8	3.3	2.0
IN.	0.80	1.22	0.84	1.48	1.44	0.38	1.28	0.45	0.75	0.04	0.03	0.02

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

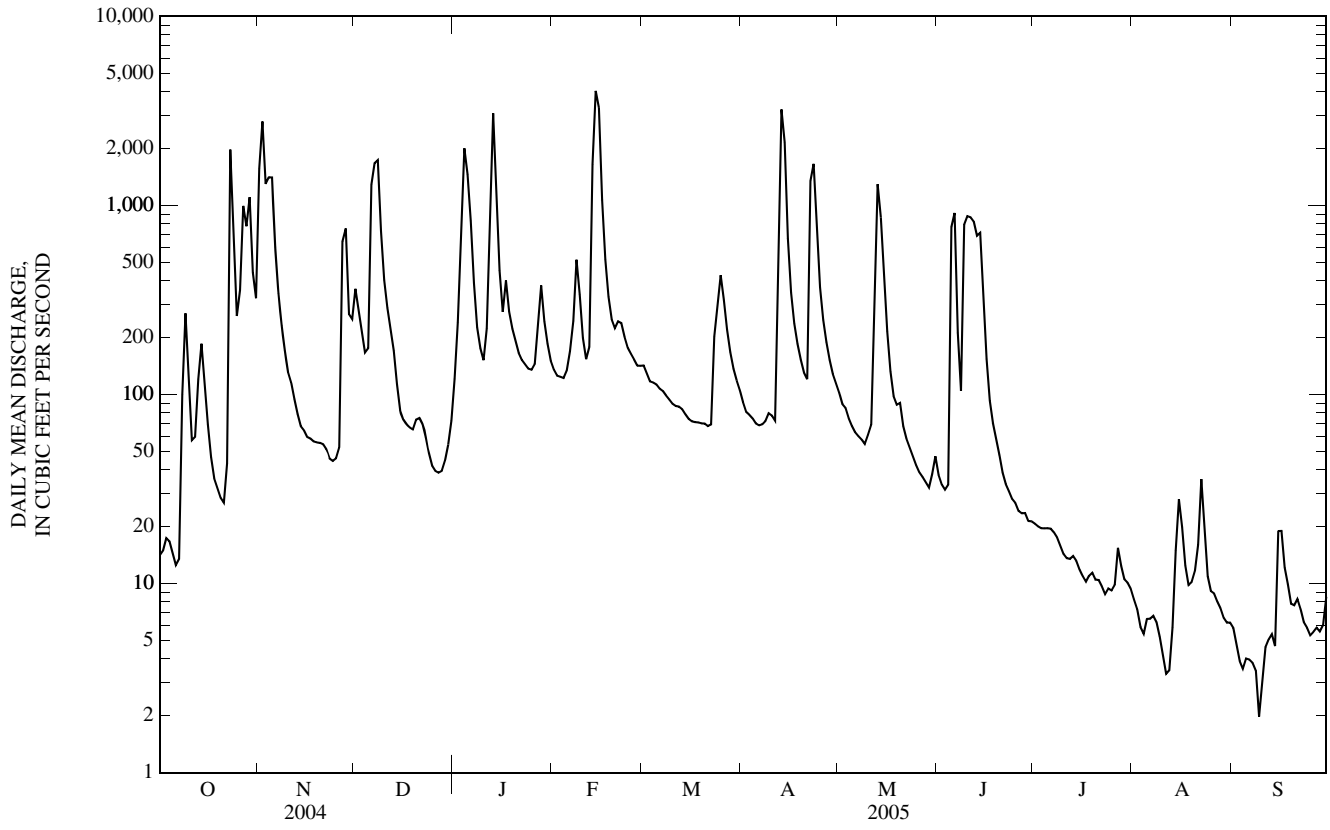
MEAN	137	164	157	162	358	401	429	462	366	276	138	152
MAX	1,677	1,463	1,399	946	1,529	1,346	1,809	3,196	2,594	2,792	2,242	2,510
(WY)	(1987)	(1986)	(1983)	(1946)	(2001)	(1985)	(1983)	(1996)	(1947)	(1993)	(1970)	(1986)
MIN	0.00	0.00	0.47	0.10	2.05	7.53	3.38	1.69	0.66	0.02	0.00	0.02
(WY)	(1954)	(1954)	(1954)	(1954)	(1989)	(1957)	(1956)	(1934)	(1956)	(1934)	(1934)	(1953)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	FOR PERIOD OF RECORD
ANNUAL MEAN	287	252	266
HIGHEST ANNUAL MEAN			861
LOWEST ANNUAL MEAN			14.2
HIGHEST DAILY MEAN	7,500	Aug 30	4,030
LOWEST DAILY MEAN	10	Aug 2	2.0
ANNUAL SEVEN-DAY MINIMUM	13	Jul 27	3.4
MAXIMUM PEAK FLOW	---		4,270
MAXIMUM PEAK STAGE	---		17.87
INSTANTANEOUS LOW FLOW	---		1.6
ANNUAL RUNOFF (INCHES)	9.93		8.72
10 PERCENT EXCEEDS	678		741
50 PERCENT EXCEEDS	70		74
90 PERCENT EXCEEDS	21		7.3

e Estimated

05496000 WYACONDA RIVER ABOVE CANTON, MO—Continued



05497000 NORTH FABIUS RIVER AT MONTICELLO, MO

LOCATION.--Lat 40°06'29", long 91°42'52", in SW ¼ SE ¼ sec.6, T.61 N., R.7 W., Lewis County, Hydrologic Unit 07110002, on right bank upstream from bridge on State Highway 16, 1.0 mi south of Monticello, and 19.0 mi upstream from Middle Fabius River.

DRAINAGE AREA.--452 mi².

PERIOD OF RECORD.--February 1922 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 925: 1937-39(M). WSP 1308: 1922(M), 1924-26(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 540.73 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 22, 1930, nonrecording gage at site 400 ft downstream at datum 0.03 ft lower; Nov. 22, 1930, to Nov. 28, 1967, nonrecording gage at present site and datum.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	1,240	236	e128	e182	194	107	176	65	36	11	13
2	34	2,240	204	232	e170	172	97	158	60	34	11	12
3	35	842	178	600	e163	160	90	134	58	33	9.9	13
4	34	931	156	1,420	e159	156	86	112	72	32	9.4	12
5	30	904	158	1,040	e157	152	83	102	878	32	11	11
6	29	418	922	574	e205	143	83	97	879	30	9.4	11
7	30	276	1,510	294	315	137	108	91	422	28	8.8	11
8	64	197	1,410	e195	600	130	105	89	246	27	10	12
9	349	157	533	e152	342	125	124	86	2,490	24	8.9	11
10	152	136	320	e134	225	116	106	84	1,320	23	7.3	10
11	81	124	254	e208	180	111	94	87	1,660	22	6.7	10
12	148	114	208	480	199	110	1,600	696	1,590	25	6.2	10
13	376	103	173	2,750	2,110	105	5,930	1,310	1,770	26	10	10
14	244	98	e125	1,610	4,690	98	3,180	1,180	1,190	24	19	23
15	120	96	e99	e502	2,000	92	1,010	801	476	23	30	46
16	82	94	e87	e274	955	88	591	347	277	21	22	48
17	62	93	e79	e206	555	86	421	229	195	20	17	35
18	53	92	e76	e176	393	86	335	177	143	19	17	21
19	53	95	e75	e162	313	85	294	173	115	19	19	18
20	50	96	e84	e146	286	84	252	204	90	17	31	17
21	47	95	e83	e135	301	80	225	135	75	16	42	18
22	51	92	e78	e160	299	83	1,660	115	68	16	50	15
23	1,280	88	e67	e223	256	169	1,670	103	68	17	30	14
24	408	90	e55	e162	228	250	1,090	92	57	16	24	13
25	179	94	e47	e138	215	319	544	85	50	13	24	13
26	145	93	e43	e152	200	266	375	78	45	14	23	14
27	864	410	e43	700	186	219	299	75	42	25	18	14
28	785	406	e44	431	192	175	251	71	39	17	17	14
29	783	205	e52	e280	---	148	221	68	36	17	17	16
30	362	201	e60	e236	---	133	201	72	35	14	18	18
31	296	---	e80	e199	---	123	---	71	---	12	15	---
MEAN	234	337	243	455	574	142	708	235	484	22.3	17.8	16.8
MAX	1,280	2,240	1,510	2,750	4,690	319	5,930	1,310	2,490	36	50	48
MIN	29	88	43	128	157	80	83	68	35	12	6.2	10
IN.	0.60	0.83	0.62	1.16	1.32	0.36	1.75	0.60	1.19	0.06	0.05	0.04

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

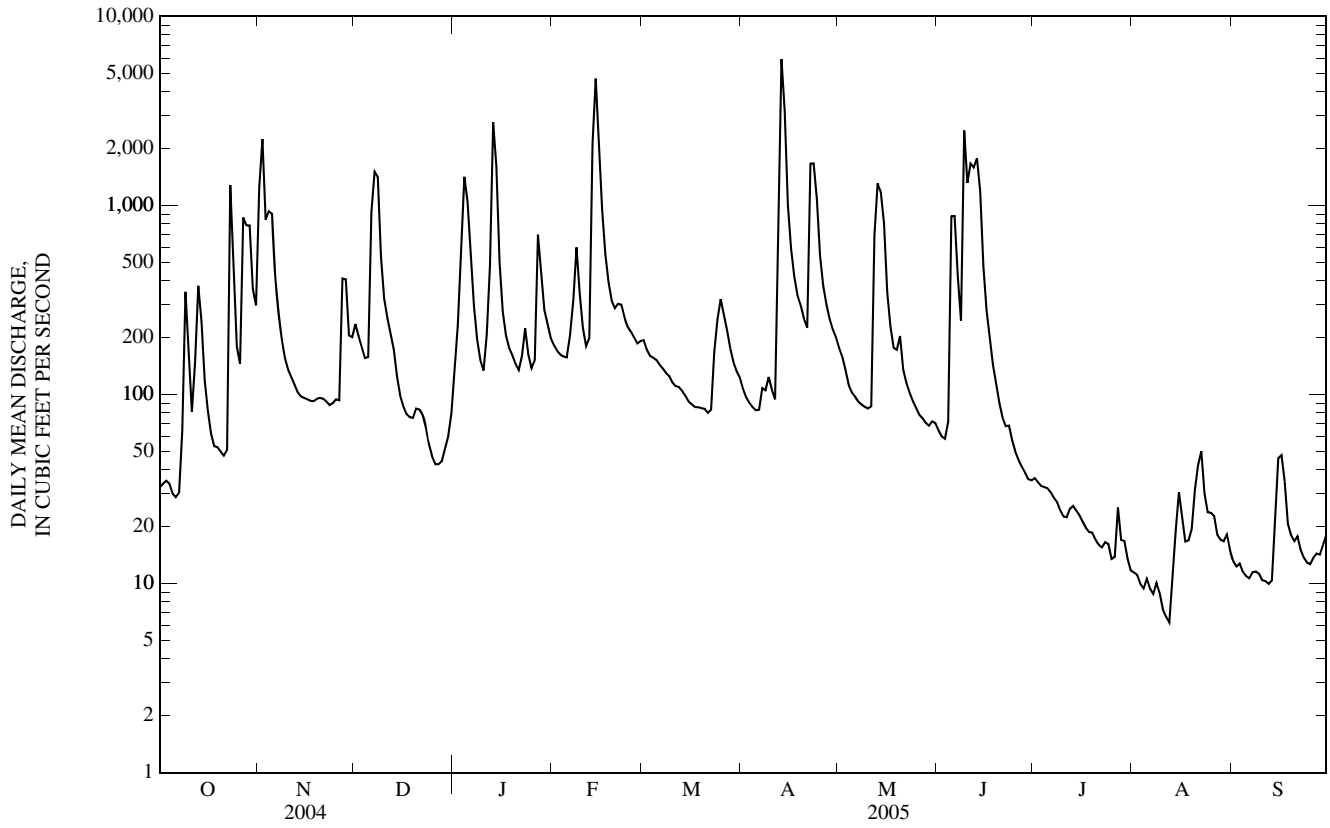
MEAN	179	191	170	193	355	447	519	467	415	289	139	175
MAX	1,496	1,347	1,521	1,679	1,346	2,336	3,171	2,941	3,148	3,320	2,149	1,966
(WY)	(1987)	(1929)	(1983)	(1974)	(1937)	(1979)	(1973)	(1996)	(1947)	(1993)	(1970)	(1970)
MIN	0.01	1.06	0.73	0.14	2.43	7.91	7.15	1.71	0.07	0.00	0.00	0.51
(WY)	(1957)	(1957)	(1957)	(1940)	(1989)	(1956)	(1956)	(1934)	(1934)	(1934)	(1934)	(1953)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1922 - 2005
ANNUAL MEAN	282	286	295
HIGHEST ANNUAL MEAN			923
LOWEST ANNUAL MEAN			18.0
HIGHEST DAILY MEAN	9,050	Aug 29	17,900
LOWEST DAILY MEAN	23	Aug 1	0.00
ANNUAL SEVEN-DAY MINIMUM	26	Jul 26	0.00
MAXIMUM PEAK FLOW	---	6,750	20,700
MAXIMUM PEAK STAGE	---	21.73	33.03
INSTANTANEOUS LOW FLOW	---	6.1	0.00
ANNUAL RUNOFF (INCHES)	8.50	8.58	8.86
10 PERCENT EXCEEDS	449	791	568
50 PERCENT EXCEEDS	87	102	46
90 PERCENT EXCEEDS	35	15	4.4

e Estimated

05497000 NORTH FABIVS RIVER AT MONTICELLO, MO—Continued



05498000 MIDDLE FABIUS RIVER NEAR MONTICELLO, MO

LOCATION.--Lat 40°05'37", long 91°44'08", in SE ¼ sec.12, T.61 N., R.8 W., Lewis County, Hydrologic Unit 07110002, on left on downstream side of bridge pier on State Highway 16, 2.5 mi southwest of Monticello, 8.0 mi downstream from Radish Branch, and 17 mi upstream from mouth.

DRAINAGE AREA.--393 mi².

PERIOD OF RECORD.--July 1945 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 540.46 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 4, 1967, nonrecording gage at present site and datum.

REMARKS.--Records fair 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 June 17, 1945, reached a stage of 23.3 ft, from floodmarks.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	1,410	293	77	e107	148	96	123	29	20	6.7	7.3
2	14	2,440	254	174	e104	144	83	108	29	18	7.2	9.4
3	14	1,230	212	730	e101	120	73	96	26	18	6.7	7.9
4	15	1,060	172	1,770	e100	113	67	87	53	18	6.0	6.2
5	16	1,050	192	1,380	115	109	65	81	501	17	7.1	4.9
6	16	510	1,000	776	125	102	65	75	621	16	5.7	4.2
7	15	287	1,390	359	189	100	68	71	194	15	5.0	3.8
8	35	204	1,220	e213	432	93	68	68	97	14	4.6	3.5
9	403	155	621	e159	384	86	88	67	819	14	5.1	3.0
10	182	128	330	e147	e197	78	97	64	1,500	13	4.9	2.8
11	83	113	242	e275	e141	72	81	76	773	12	4.5	2.7
12	195	100	193	718	e156	69	913	236	2,140	12	4.1	2.7
13	952	87	154	2,360	1,750	67	3,810	1,300	854	11	6.0	2.4
14	404	78	125	1,710	3,900	64	4,840	1,130	594	11	13	2.8
15	157	72	92	503	3,190	59	5,780	506	275	10	12	117
16	97	69	e80	235	837	56	739	235	167	9.8	8.6	71
17	70	67	e71	182	497	54	348	150	109	9.4	7.5	63
18	56	67	e67	e154	337	54	248	113	78	9.0	11	25
19	61	67	e64	e138	259	54	199	95	61	8.7	15	15
20	62	65	e65	e126	237	53	170	146	49	8.6	12	10
21	50	64	e66	e120	247	51	175	113	41	7.9	13	7.9
22	71	61	e60	e133	267	57	894	79	36	7.3	18	6.0
23	1,610	57	e52	249	222	134	2,360	65	34	7.1	17	5.4
24	390	58	39	148	184	281	1,280	56	29	6.8	34	5.2
25	172	60	33	127	165	494	471	49	25	6.3	27	7.0
26	197	71	33	116	158	439	292	43	39	8.2	17	7.2
27	1,060	658	32	145	147	296	224	39	23	20	13	5.8
28	890	536	36	247	148	208	185	35	21	17	10	5.3
29	875	294	41	145	---	162	159	33	20	10	8.9	5.1
30	486	225	49	118	---	134	139	32	19	7.6	7.7	5.1
31	262	---	63	111	---	113	---	30	---	7.0	6.9	---
MEAN	288	378	237	447	525	131	803	174	309	11.9	10.5	14.2
MAX	1,610	2,440	1,390	2,360	3,900	494	5,780	1,300	2,140	20	34	117
MIN	14	57	32	77	100	51	65	30	19	6.3	4.1	2.4
IN.	0.84	1.07	0.69	1.31	1.39	0.38	2.28	0.51	0.88	0.03	0.03	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2005, BY WATER YEAR (WY)

MEAN	157	173	162	200	333	439	495	486	309	292	123	147
MAX	1,368	1,481	1,418	1,179	1,359	1,521	2,719	2,776	2,582	3,038	1,758	1,815
(WY)	(1987)	(1986)	(1983)	(1969)	(1969)	(1979)	(1973)	(1996)	(1947)	(1993)	(1970)	(1970)
MIN	0.00	0.00	0.11	0.31	1.23	6.32	3.83	1.48	1.04	0.78	0.56	0.09
(WY)	(1954)	(1954)	(1957)	(1957)	(1957)	(1957)	(1956)	(1989)	(1956)	(1988)	(1988)	(1953)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

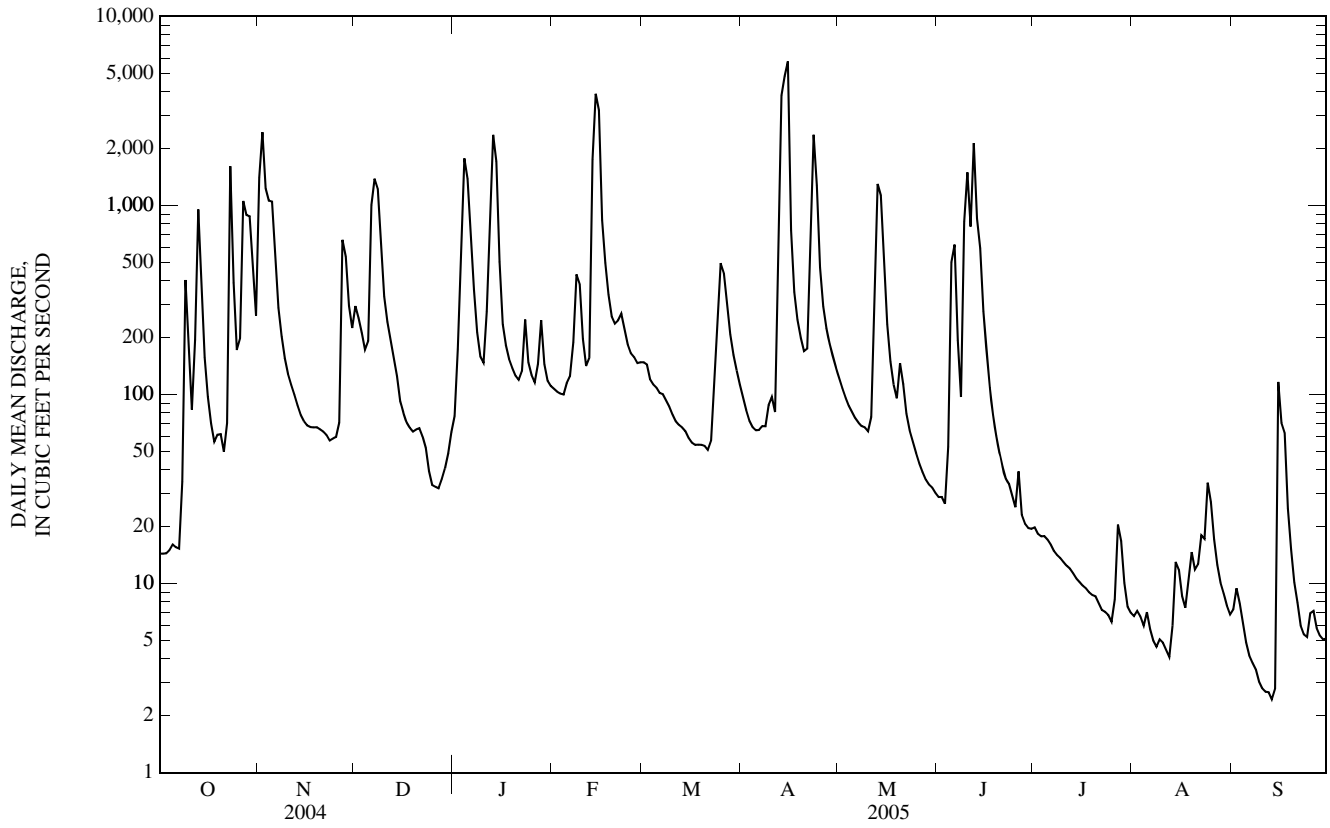
FOR 2005 WATER YEAR

WATER YEARS 1946 - 2005

ANNUAL MEAN	262	274	276
HIGHEST ANNUAL MEAN			837
LOWEST ANNUAL MEAN			18.7
HIGHEST DAILY MEAN	4,200	Aug 28	16,500
LOWEST DAILY MEAN	12	Aug 1	0.00
ANNUAL SEVEN-DAY MINIMUM	13	Jul 27	0.00
MAXIMUM PEAK FLOW	---		17,700
MAXIMUM PEAK STAGE	---		27.14
INSTANTANEOUS LOW FLOW	---		0.00
ANNUAL RUNOFF (INCHES)	9.08	9.47	9.54
10 PERCENT EXCEEDS	571	753	570
50 PERCENT EXCEEDS	72	78	39
90 PERCENT EXCEEDS	22	7.2	2.8

e Estimated

05498000 MIDDLE FABIUS RIVER NEAR MONTICELLO, MO—Continued



05500000 SOUTH FABIUS RIVER NEAR TAYLOR, MO

LOCATION.--Lat 39°53'48", long 91°34'49", in SW ¼ NW ¼ sec.21, T.59 N., R.6 W., Marion County, Hydrologic Unit 07110003, on right bank at downstream side of county highway bridge, 4.5 mi southwest of Taylor, 5.0 mi downstream from Grassy Creek, and 5.3 mi upstream from confluence with North Fabius River.

DRAINAGE AREA.--620 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1934 to current year. Prior to December 1934 monthly discharge only published in WSP 1308.

REVISED RECORDS.--WSP 825: 1936.

GAGE.--Water-stage recorder. Datum of gage is 482.91 ft above National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers). Prior to May 14, 1936, nonrecording gage at bridge 4.0 mi downstream at datum 21.94 ft lower; May 14, 1936, to Dec. 2, 1940, nonrecording gage at present site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1928 reached a stage of 18.49 ft, from floodmarks, at present site and datum.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	4,280	665	113	145	207	184	131	31	17	6.5	4.8
2	22	4,910	703	129	145	201	155	116	30	15	5.5	4.0
3	20	3,120	584	1,090	144	190	136	105	28	14	4.2	3.4
4	19	2,350	459	3,670	150	172	122	95	29	14	3.9	3.0
5	18	2,400	403	5,400	166	157	112	86	838	14	8.6	2.6
6	17	1,270	1,790	3,230	173	148	108	79	1,220	14	9.9	2.3
7	19	684	3,990	1,280	222	142	106	74	676	13	9.5	2.0
8	317	441	2,880	834	295	134	103	73	347	12	8.2	1.9
9	318	331	1,580	634	441	127	98	70	212	11	5.7	2.2
10	295	268	835	789	374	123	97	66	1,460	10	4.3	1.7
11	250	226	557	957	249	114	96	64	831	10	3.3	1.5
12	1,090	194	414	1,340	252	107	684	82	1,260	10	2.7	1.7
13	1,450	170	325	6,110	2,270	101	2,330	399	924	11	3.9	2.4
14	1,460	152	260	4,770	5,920	95	3,310	1,220	1,320	11	5.4	3.8
15	658	137	206	1,540	5,450	91	3,370	991	788	9.0	5.1	7.6
16	330	127	197	e787	2,380	89	1,530	461	356	7.6	4.7	8.5
17	216	121	e167	e399	1,080	86	628	264	213	6.5	4.1	6.3
18	350	117	e154	e267	728	82	415	187	136	6.5	4.6	4.8
19	639	115	e144	e226	521	80	281	154	95	7.2	8.2	4.1
20	291	111	e130	e198	432	79	230	123	72	6.1	15	4.0
21	244	106	e124	e179	400	76	198	97	56	5.1	14	3.7
22	207	101	e118	e171	375	86	191	144	47	4.6	27	4.8
23	1,020	97	e114	e187	346	174	513	115	40	5.0	19	11
24	2,180	111	e102	e173	302	267	1,140	81	33	4.0	12	11
25	746	137	e85	e154	262	535	751	65	29	3.0	10	9.7
26	591	259	81	e140	234	946	385	55	26	3.9	8.5	8.7
27	3,360	2,380	83	e135	215	738	256	49	23	9.1	7.3	8.1
28	3,030	3,420	74	e135	210	482	201	43	21	6.7	6.2	6.9
29	1,420	1,450	78	e168	---	346	173	39	19	5.5	5.4	6.2
30	874	779	83	177	---	271	149	37	17	7.5	6.6	5.6
31	613	---	93	154	---	221	---	34	---	7.0	6.2	---
MEAN	712	1,012	564	1,146	853	215	602	181	373	9.04	7.92	4.94
MAX	3,360	4,910	3,990	6,110	5,920	946	3,370	1,220	1,460	17	27	11
MIN	17	97	74	113	144	76	96	34	17	3.0	2.7	1.5
IN.	1.32	1.82	1.05	2.13	1.43	0.40	1.08	0.34	0.67	0.02	0.01	0.01

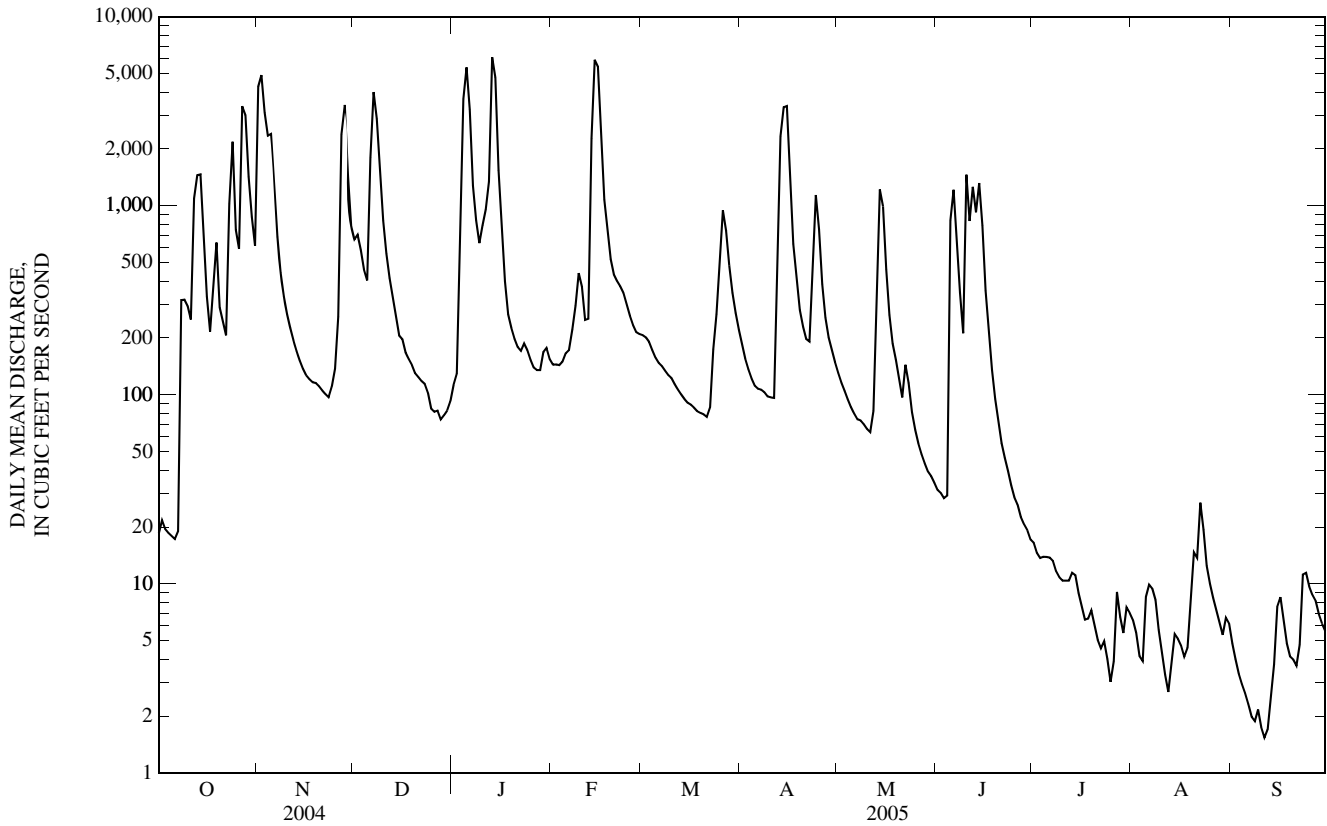
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2005, BY WATER YEAR (WY)

MEAN	261	298	264	305	531	683	755	767	491	371	177	190
MAX	2,690	3,103	2,137	2,000	2,340	2,659	3,989	4,078	3,891	3,647	2,335	2,841
(WY)	(1987)	(1986)	(1983)	(1965)	(1982)	(1973)	(1973)	(1995)	(1947)	(1993)	(1970)	(1970)
MIN	0.00	0.00	1.52	2.12	4.78	15.0	13.4	7.56	5.68	0.71	0.00	0.39
(WY)	(1957)	(1957)	(1964)	(1954)	(1989)	(1956)	(1989)	(1989)	(1977)	(1988)	(1936)	(1953)

05500000 SOUTH FABIUS RIVER NEAR TAYLOR, MO—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1935 - 2005	
ANNUAL MEAN	492		470		417	
HIGHEST ANNUAL MEAN					1,147	1993
LOWEST ANNUAL MEAN					27.4	1989
HIGHEST DAILY MEAN	10,100	Aug 28	6,110	Jan 13	18,800	Jun 8, 1947
LOWEST DAILY MEAN	15	Aug 1,16,17	1.5	Sep 11	0.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	18	Jul 28	1.9	Sep 6	0.00	Several Years
MAXIMUM PEAK FLOW	---		6,860	Jan 13	19,700	Jun 8, 1947
MAXIMUM PEAK STAGE	---		10.29	Jan 13	19.50	Jun 8, 1947
INSTANTANEOUS LOW FLOW	---		1.4	Sep 11	0.00	Several Years
ANNUAL RUNOFF (INCHES)	10.81		10.29		9.15	
10 PERCENT EXCEEDS	1,240		1,270		966	
50 PERCENT EXCEEDS	147		131		60	
90 PERCENT EXCEEDS	39		5.4		4.4	

e Estimated



05500000 SOUTH FABIUS RIVER NEAR TAYLOR, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1972 to August 1973, October 1979 to October 1989, November 1992 to current year.

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

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, 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 13...	1000	Environmental	1,480	8.3	81	6.9	204	12.9	--	--	--	--
NOV 02...	0905	Environmental	4,930	10.3	98	7.1	176	12.4	72	21.8	4.27	8.12
DEC 15...	1240	Environmental	206	17.8	126	7.5	381	1.0	--	--	--	--
JAN 05...	0900	Environmental	5,850	16.2	119	7.0	182	2.1	66	19.6	4.19	5.46
FEB 01...	1315	Environmental	144	16.2	119	7.8	482	2.5	--	--	--	--
MAR 08...	1320	Environmental	133	13.0	111	7.8	458	7.8	--	--	--	--
APR 04...	1420	Environmental	120	16.3	175	8.8	408	17.3	--	--	--	--
MAY 02...	1510	Environmental	114	9.7	95	7.9	409	13.7	180	54.1	11.5	4.13
JUN 07...	0930	Environmental	725	6.2	78	7.4	317	23.4	--	--	--	--
JUL 26...	1210	Environmental	2.5	6.8	93	8.2	461	30.7	210	59.3	15.7	5.54
AUG 02...	0955	Environmental	5.8	6.6	85	8.1	406	27.4	--	--	--	--
SEP 07...	1100	Environmental	2.1	8.1	102	8.4	350	26.8	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC, wat fltrd, mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)
OCT 13...	--	--	--	--	--	--	--	--	--	328d	1.9	<.04	1.15
NOV 02...	3.60	56	56	68	<1	7.06	.1	9.9	124	340d	1.9	<.04	.56
DEC 15...	--	--	--	--	--	--	--	--	--	19	.87	.21	.76
JAN 05...	4.54	47	45	55	<1	9.88	.1	14.3	120	760d	2.3	.15	1.51
FEB 01...	--	--	--	--	--	--	--	--	--	<10	.34	.07	.89
MAR 08...	--	--	--	--	--	--	--	--	--	<10	.44	<.04	.25
APR 04...	--	--	--	--	--	--	--	--	--	<10	.78	<.04	<.06
MAY 02...	11.8	137	139	170	<1	11.1	.2	38.8	256	20	.73	<.04	1.01
JUN 07...	--	--	--	--	--	--	--	--	--	252d	2.3	.26	7.53d
JUL 26...	16.1	160	159	194	<1	14.3	.2	47.0	290	<10	.73	E.03n	E.03n
AUG 02...	--	--	--	--	--	--	--	--	--	43	.78	<.04	<.06
SEP 07...	--	--	--	--	--	--	--	--	--	<10	.54	<.04	E.04n

05500000 SOUTH FABIUS RIVER NEAR TAYLOR, 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 13...	.015	.05	.13	.52	5,600k	6,000k	--	--	--	--	--	--	--
NOV 02...	E.006n	.13	.17	.58	2,700	3,400k	7	3,750d	1.4	<.04	.14	2.2	108
DEC 15...	.013	.04	.06	.13	120	190	--	--	--	--	--	--	--
JAN 05...	.011	.06	.12	.74	3,500	3,700	9	6,650d	.8	<.04	.23	2.0	90
FEB 01...	.009	<.02	<.04	E.03n	3k	16k	--	--	--	--	--	--	--
MAR 08...	<.008	<.02	<.04	E.03n	3k	1k	--	--	--	--	--	--	--
APR 04...	.008	<.02	<.04	E.04n	4k	6k	--	--	--	--	--	--	--
MAY 02...	.010	<.02	E.03n	.09	21	130	2	439	.9	<.04	E.02n	1.5	15
JUN 07...	.187	.03	.07	.33	2,000	1,500k	--	--	--	--	--	--	--
JUL 26...	<.008	<.02	.05	.09	4k	12k	4	260	3.5	<.04	E.04n	1.5	9
AUG 02...	<.008	.02	E.04n	.09	87	100	--	--	--	--	--	--	--
SEP 07...	<.008	<.09d	E.03n	.05	7k	3k	--	--	--	--	--	--	--

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...	E.07n	7.45	22.2	.02	E.3n	.9	19
DEC 15...	--	--	--	--	--	--	--
JAN 05...	.11	12.5	59.3	.03	E.3n	3.9	34
FEB 01...	--	--	--	--	--	--	--
MAR 08...	--	--	--	--	--	--	--
APR 04...	--	--	--	--	--	--	--
MAY 02...	<.08	.65	121	<.01	.5	<.6	3
JUN 07...	--	--	--	--	--	--	--
JUL 26...	<.08	.49	121	E.01n	.7	E.6n	E2n
AUG 02...	--	--	--	--	--	--	--
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

MISSISSIPPI RIVER BASIN ABOVE MISSOURI RIVER

05501000 NORTH RIVER AT PALMYRA, MO

LOCATION.--Lat 39°49'05", long 91°31'04", in SE ¼ SW ¼ sec.13, T.58 N., R.6 W., Marion County, Hydrologic Unit 07110004, on right bank 100 ft upstream from City Waterworks Dam, 1,000 ft upstream from upstream bridge on dual U.S. Highways 24 and 61, 0.5 mi north of Palmyra, and 7.0 mi upstream from mouth.

DRAINAGE AREA.--373 mi².

PERIOD OF RECORD.--December 1934 to current year.

GAGE.--Water-stage recorder. Datum of gage is 464.81 ft above National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers). Prior to Oct. 1, 1945, nonrecording gage at bridge 1,000 ft downstream; Oct. 1, 1945, to June 22, 1951, nonrecording gage at present site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage prior to 1934, about 28.0 ft, from floodmarks, date unknown, at site 1,000 ft downstream, at present datum.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	7,820	407	e71	91	117	74	55	13	7.4	2.5	5.3
2	23	2,560	400	e66	90	110	65	51	14	5.5	2.4	3.5
3	21	1,120	301	e700	88	104	60	48	14	4.2	2.4	2.7
4	19	1,280	233	e2,020	86	99	54	46	16	4.5	2.9	2.1
5	18	999	240	5,680	86	91	54	42	470	4.6	3.5	2.2
6	16	526	1,790	1,600	93	87	57	40	399	4.0	13	2.5
7	17	332	4,480	625	148	84	56	37	204	3.8	6.3	2.4
8	254	244	1,300	426	185	83	53	37	109	3.4	3.6	2.4
9	160	195	615	317	161	80	48	38	138	3.8	2.5	3.2
10	75	163	388	597	136	72	45	38	414	3.4	3.3	3.6
11	46	141	280	801	113	69	45	38	294	3.8	4.1	3.8
12	416	122	225	1,250	132	67	869	36	241	4.9	3.8	3.8
13	601	106	184	8,280	3,930	64	713	74	160	4.7	6.9	6.1
14	214	94	149	1,590	4,090	61	372	199	117	4.2	6.8	41
15	142	86	127	e601	1,470	59	210	99	90	3.7	5.5	13
16	94	79	122	e315	548	56	140	75	60	3.6	10	12
17	68	77	113	e223	339	54	115	51	44	3.5	6.9	6.8
18	95	74	108	e189	255	56	98	37	35	3.1	4.4	3.9
19	445	73	96	e167	209	55	89	31	26	2.3	9.6	3.1
20	180	71	90	e149	197	53	126	28	21	2.2	15	4.5
21	127	67	e78	e134	191	49	233	25	18	2.1	11	3.9
22	95	63	e72	e122	171	54	133	23	16	1.6	8.5	2.9
23	184	59	e66	112	153	93	114	21	16	1.4	6.3	2.9
24	441	79	68	128	143	107	93	21	13	1.4	6.1	2.8
25	208	232	62	113	135	102	80	20	9.8	1.3	11	2.8
26	175	770	61	111	124	145	77	18	9.3	1.3	11	5.1
27	2,120	4,550	59	106	120	150	71	16	8.5	2.2	8.7	4.3
28	794	1,840	61	97	122	119	65	15	7.6	2.4	64	e3.0
29	370	752	63	99	---	99	62	15	6.9	2.0	119	2.4
30	211	402	66	97	---	87	59	15	6.5	1.6	15	2.0
31	159	---	74	95	---	83	---	14	---	2.2	7.4	---
MEAN	252	833	399	867	486	84.2	144	42.0	99.7	3.23	12.4	5.33
MAX	2,120	7,820	4,480	8,280	4,090	150	869	199	470	7.4	119	41
MIN	16	59	59	66	86	49	45	14	6.5	1.3	2.4	2.0
IN.	0.78	2.49	1.23	2.68	1.36	0.26	0.43	0.13	0.30	0.01	0.04	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2005, BY WATER YEAR (WY)

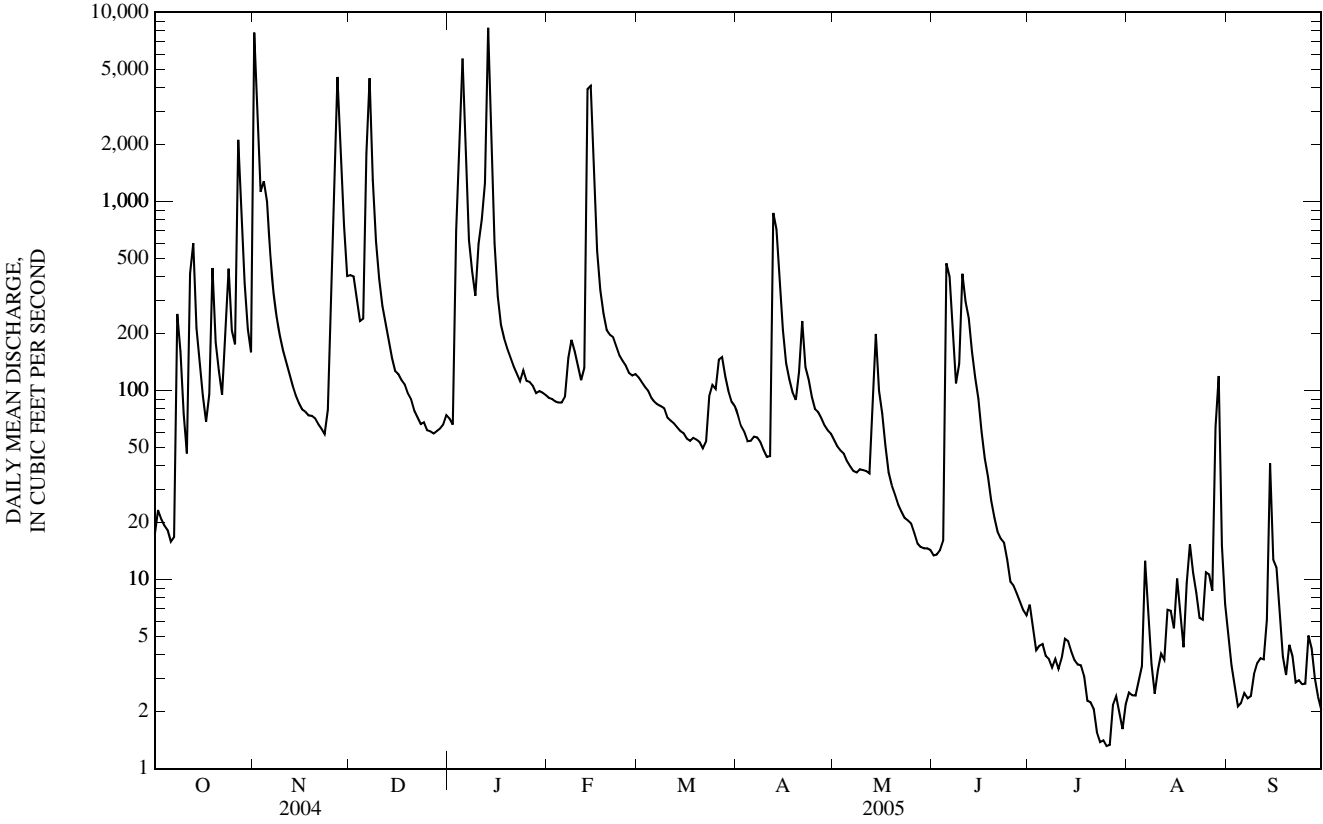
MEAN	146	182	172	189	318	427	472	488	304	232	116	119
MAX	1,742	2,639	1,832	991	1,720	2,783	2,691	2,322	2,296	2,100	1,357	1,351
(WY)	(1987)	(1986)	(1983)	(1969)	(1982)	(1973)	(1973)	(2002)	(1947)	(1993)	(1970)	(1970)
MIN	0.00	0.00	0.23	0.66	0.92	6.54	24.8	15.5	4.77	0.52	0.00	0.17
(WY)	(1957)	(1957)	(1957)	(1954)	(1954)	(1956)	(2000)	(1989)	(1936)	(1936)	(1936)	(1940)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1935 - 2005	
ANNUAL MEAN	311		267		260	
HIGHEST ANNUAL MEAN					748	
LOWEST ANNUAL MEAN					22.1	
HIGHEST DAILY MEAN	16,700	Aug 28	8,280	Jan 13	32,600	Apr 21, 1973
LOWEST DAILY MEAN	2.2	Aug 17	1.3	Jul 25,26	0.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	4.0	Aug 12	1.6	Jul 20	0.00	Several Years
MAXIMUM PEAK FLOW	---		12,700	Nov 1, Jan 13	57,400	Apr 21, 1973
MAXIMUM PEAK STAGE	---		20.97	Jan 13	29.70	Apr 21, 1973
INSTANTANEOUS LOW FLOW	---		1.3	Jul 22,23,25,26	0.00	Several Years
ANNUAL RUNOFF (INCHES)	11.36		9.73		9.48	
10 PERCENT EXCEEDS	504		443		454	
50 PERCENT EXCEEDS	66		69		39	
90 PERCENT EXCEEDS	17		3.4		3.4	

e Estimated

05501000 NORTH RIVER AT PALMYRA, MO—Continued



MISSISSIPPI RIVER BASIN ABOVE MISSOURI RIVER

05502000 BEAR CREEK AT HANNIBAL, MO

LOCATION.--Lat 39°40'43", long 91°24'39", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.1, T.56 N., R.5 W., Ralls County, Hydrologic Unit 07110004, at bridge on Industrial Drive, on right downstream bank, and 4.65 mi upstream from mouth.

DRAINAGE AREA.--31.0 mi².

PERIOD OF RECORD.--October 1938 to September 1942, October 1947 to current year in reports of the U.S. Geological Survey. Monthly discharge only for some periods published in WSP 1308. October 1936 to November 1938 (gage-height and discharge measurements only) in reports of the Missouri Department of Natural Resources.

REVISED RECORDS.--WSP 1115: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 508.91 ft above National Geodetic Vertical Datum of 1929. Prior to Mar. 26, 1948, nonrecording gage; Mar. 26, 1948, to Sept. 30, 1953, water-stage recorder at datum 2.00 ft higher; Oct. 1, 1953, to Oct. 30, 1961, at present datum; Oct. 31, 1961, to Sept. 5, 1972, water-stage recorder 400 ft downstream at present datum; Sept. 6, 1972, to July 2, 1986, water-stage recorder 525 ft upstream at present datum.

REMARKS.--Records fair except for estimated daily discharges and discharges below 15 ft³/s, which are poor. Flow partially regulated by Bear Creek flood control reservoir, 1.0 mi upstream, since Aug. 7, 1961. U.S.G.S. satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,500 ft³/s, Aug. 3, 1957; gage height, 14.05 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	3.0	164	115	12	8.3	9.5	4.5	4.0	1.9	0.51	0.00	1.5
2	3.4	99	214	15	9.2	8.0	4.4	3.9	1.6	0.49	0.00	0.74
3	2.8	99	205	91	8.6	8.8	4.4	4.1	1.6	0.39	0.00	0.37
4	2.4	144	25	85	10	10	4.3	4.1	2.0	0.65	0.00	0.17
5	2.2	238	36	86	9.9	8.7	4.1	4.1	2.7	0.66	0.00	0.16
6	2.1	274	96	28	12	8.2	4.4	3.9	2.1	0.75	0.00	0.07
7	3.3	107	103	93	41	8.7	4.5	3.9	1.7	0.59	0.00	0.06
8	12	12	32	224	26	7.5	4.1	3.9	2.3	0.41	0.00	0.07
9	5.3	24	229	209	16	7.0	4.0	3.9	2.2	0.28	0.00	0.13
10	3.3	13	e150	210	11	6.9	3.7	3.8	3.0	0.25	0.35	0.11
11	2.5	11	e40	199	11	6.8	4.2	3.6	3.0	0.31	0.02	0.09
12	28	10	27	208	20	6.6	30	3.7	2.1	0.37	0.78	0.03
13	31	9.3	19	203	133	6.1	12	3.7	2.6	0.53	3.3	0.69
14	61	8.6	16	283	179	5.8	64	3.6	2.3	0.44	4.1	0.62
15	11	8.4	14	269	263	5.6	7.9	3.0	2.0	0.41	2.4	0.97
16	6.2	8.7	14	256	240	5.6	6.1	2.8	1.5	0.48	1.4	0.98
17	4.8	8.4	14	234	186	5.6	5.6	2.7	1.2	0.43	1.0	0.89
18	7.0	8.9	13	98	22	5.4	5.3	2.9	1.1	0.07	0.77	0.67
19	13	10	12	21	17	5.3	4.8	2.9	0.92	0.02	1.5	0.89
20	6.8	9.1	12	22	22	5.1	6.1	2.7	0.93	0.05	1.4	1.5
21	5.5	7.7	11	18	18	5.1	8.1	2.5	0.72	0.17	0.95	0.64
22	4.8	7.4	10	13	14	11	7.1	2.4	0.60	0.21	0.82	0.32
23	5.9	7.4	9.7	13	12	17	6.0	2.2	0.60	0.06	0.62	0.55
24	5.7	33	8.8	9.7	11	8.6	4.9	2.0	0.51	0.01	0.28	0.64
25	4.4	49	9.3	11	11	9.8	4.7	1.9	0.48	0.00	0.74	0.80
26	26	62	9.1	11	9.3	7.8	5.2	1.7	0.54	0.65	1.3	1.3
27	61	89	8.2	8.9	9.1	6.8	4.6	1.7	0.94	0.12	1.4	0.96
28	82	64	8.9	7.9	12	6.2	4.4	1.8	0.79	0.00	1.5	1.00
29	10	61	9.4	8.8	---	5.8	4.4	1.8	0.67	0.07	7.0	0.82
30	7.1	62	10	8.6	---	5.3	4.4	1.9	0.55	0.01	7.9	0.70
31	6.0	---	11	8.9	---	4.9	---	1.9	---	0.00	5.6	---
MEAN	13.9	57.0	48.1	95.6	47.9	7.40	8.07	3.00	1.50	0.30	1.46	0.61
MAX	82	274	229	283	263	17	64	4.1	3.0	0.75	7.9	1.5
MIN	2.1	7.4	8.2	7.9	8.3	4.9	3.7	1.7	0.48	0.00	0.00	0.03
IN.	0.52	2.05	1.79	3.56	1.61	0.28	0.29	0.11	0.05	0.01	0.05	0.02

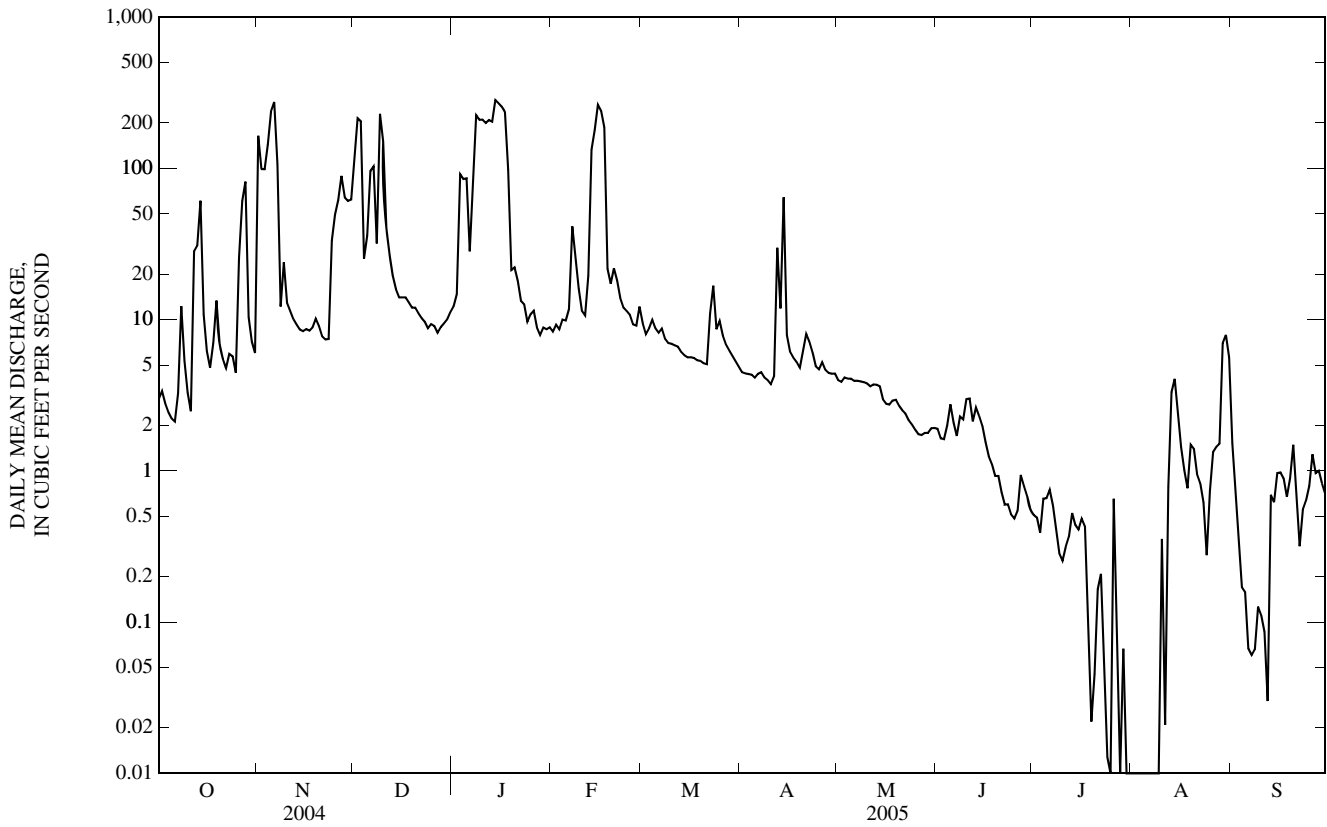
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2005^a, BY WATER YEAR (WY)

MEAN	13.3	19.9	18.9	17.0	31.7	36.1	36.6	38.3	20.8	17.8	14.4	14.7
MAX	116	225	155	95.6	136	125	193	183	76.5	193	141	190
(WY)	(1970)	(1986)	(1983)	(2005)	(1997)	(1973)	(1973)	(2002)	(1982)	(1981)	(1993)	(1970)
MIN	0.02	0.15	0.11	0.27	0.85	2.86	2.94	2.25	0.58	0.03	0.15	0.01
(WY)	(1964)	(1964)	(1964)	(1977)	(1964)	(1981)	(2000)	(2000)	(1963)	(1977)	(1962)	(1988)

05502000 BEAR CREEK AT HANNIBAL, MO—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1962 - 2005 ^a	
ANNUAL MEAN	22.8		23.6		23.2	
HIGHEST ANNUAL MEAN					57.9	1993
LOWEST ANNUAL MEAN					5.33	1989
HIGHEST DAILY MEAN	451	Aug 31	283	Jan 14	1,470	Sep 25, 1970
LOWEST DAILY MEAN	0.00	Aug 18	0.00	Several Days	0.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	0.06	Aug 13	0.00	Jul 31	0.00	Several Years
MAXIMUM PEAK FLOW	---		432	Nov 1	3,120	Sep 23, 1970
MAXIMUM PEAK STAGE	---		5.25	Nov 1	9.96	Aug 27, 2004
INSTANTANEOUS LOW FLOW	---		0.00	Several Days	0.00	Several Years
ANNUAL RUNOFF (INCHES)	10.03		10.34		10.19	
10 PERCENT EXCEEDS	48		71		51	
50 PERCENT EXCEEDS	6.1		5.1		4.5	
90 PERCENT EXCEEDS	1.3		0.32		0.58	

e Estimated
^a Post-regulation period.



05502300 NORTH FORK SALT RIVER AT HAGERS GROVE, MO

LOCATION.--Lat 39°49'48", long 92°13'50", in NE ¼ SW ¼ sec.15, T.58 N., R.12 W., Shelby County, Hydrologic Unit 07110005, at bridge on State Highway 151, 200 ft downstream from old channel carrying Bear Creek, 0.25 mi west of Hagers Grove, 2.5 mi upstream from Ten Mile Creek, and at mile 143.8.

DRAINAGE AREA.--365 mi².

PERIOD OF RECORD.--September 1974 to current year. Prior to October 1983 published as "Salt River at Hagers Grove, Mo.". September 1939 to August 1974, gage-height and miscellaneous measurements published by the U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 702.30 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges and discharges below 10 ft³/s, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1947 reached a stage of 19.7 ft, discharge 26,900 ft³/s, according to information furnished 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	10	2,770	345	95	55	86	67	69	30	16	8.3	2.5
2	12	2,140	307	240	e48	71	58	60	27	19	7.5	2.0
3	12	686	251	1,590	e44	58	52	53	26	19	5.4	2.1
4	20	1,920	206	2,220	e42	54	50	50	153	15	8.8	1.4
5	17	931	265	1,790	e42	51	47	48	661	13	8.7	1.3
6	12	348	1,390	516	69	47	46	43	229	11	6.8	1.3
7	14	216	1,420	336	235	46	46	41	110	9.7	13	1.3
8	263	152	1,140	262	480	45	48	39	1,550	9.0	19	1.7
9	770	117	436	211	204	40	58	43	2,130	8.6	11	1.5
10	178	97	284	346	113	37	52	43	766	7.8	7.8	1.4
11	83	83	212	422	115	36	59	41	1,920	6.8	7.2	1.3
12	163	70	172	1,150	180	36	4,730	348	1,160	6.5	5.8	1.4
13	1,110	60	148	3,460	3,780	33	4,860	700	978	6.0	9.9	1.5
14	320	54	e93	579	3,980	30	1,220	812	705	5.5	15	1.5
15	141	50	e75	e313	980	27	410	263	237	5.1	37	15
16	84	48	e81	e220	421	26	259	145	135	5.1	34	14
17	59	47	e70	e171	254	27	185	105	93	5.2	12	39
18	88	46	e65	e139	181	27	145	85	68	5.1	8.1	44
19	81	47	e56	e124	140	27	114	81	51	4.2	4.8	15
20	46	48	e52	e114	142	26	93	181	41	4.2	7.2	8.2
21	35	48	e51	e106	182	24	101	105	35	4.4	22	3.9
22	92	42	e48	e98	157	29	815	137	31	3.8	37	2.4
23	703	39	e41	e91	114	98	953	198	27	3.1	12	2.8
24	179	54	e34	e82	92	334	505	119	24	2.5	6.9	2.5
25	89	69	e30	e80	95	659	208	73	21	1.7	6.4	2.7
26	732	90	e30	e71	85	415	142	56	19	9.4	4.2	3.2
27	2,200	1,380	e31	e65	71	237	117	46	17	28	3.2	5.2
28	576	888	e33	e61	84	166	99	43	15	18	3.7	21
29	360	359	e38	e58	---	118	83	38	14	13	3.2	13
30	296	292	e42	58	---	98	76	35	15	11	2.6	4.9
31	249	---	e61	54	---	81	---	32	---	9.2	2.8	---
MEAN	290	440	242	488	442	99.6	523	133	376	9.22	11.0	7.30
MAX	2,200	2,770	1,420	3,460	3,980	659	4,860	812	2,130	28	37	44
MIN	10	39	30	54	42	24	46	32	14	1.7	2.6	1.3
IN.	0.92	1.34	0.77	1.54	1.26	0.31	1.60	0.42	1.15	0.03	0.03	0.02

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

MEAN	170	267	202	132	335	391	442	603	271	342	94.4	100
MAX	1,201	1,426	1,319	576	1,599	1,177	2,036	2,631	1,074	3,033	441	937
(WY)	(1987)	(1986)	(1983)	(1999)	(1982)	(1979)	(1983)	(1995)	(1984)	(1993)	(1982)	(1993)
MIN	2.02	4.40	2.20	1.13	5.18	22.5	8.20	10.4	3.55	4.01	3.90	3.41
(WY)	(1989)	(1976)	(1977)	(1977)	(1989)	(1989)	(1989)	(1980)	(1988)	(1988)	(1984)	(1988)

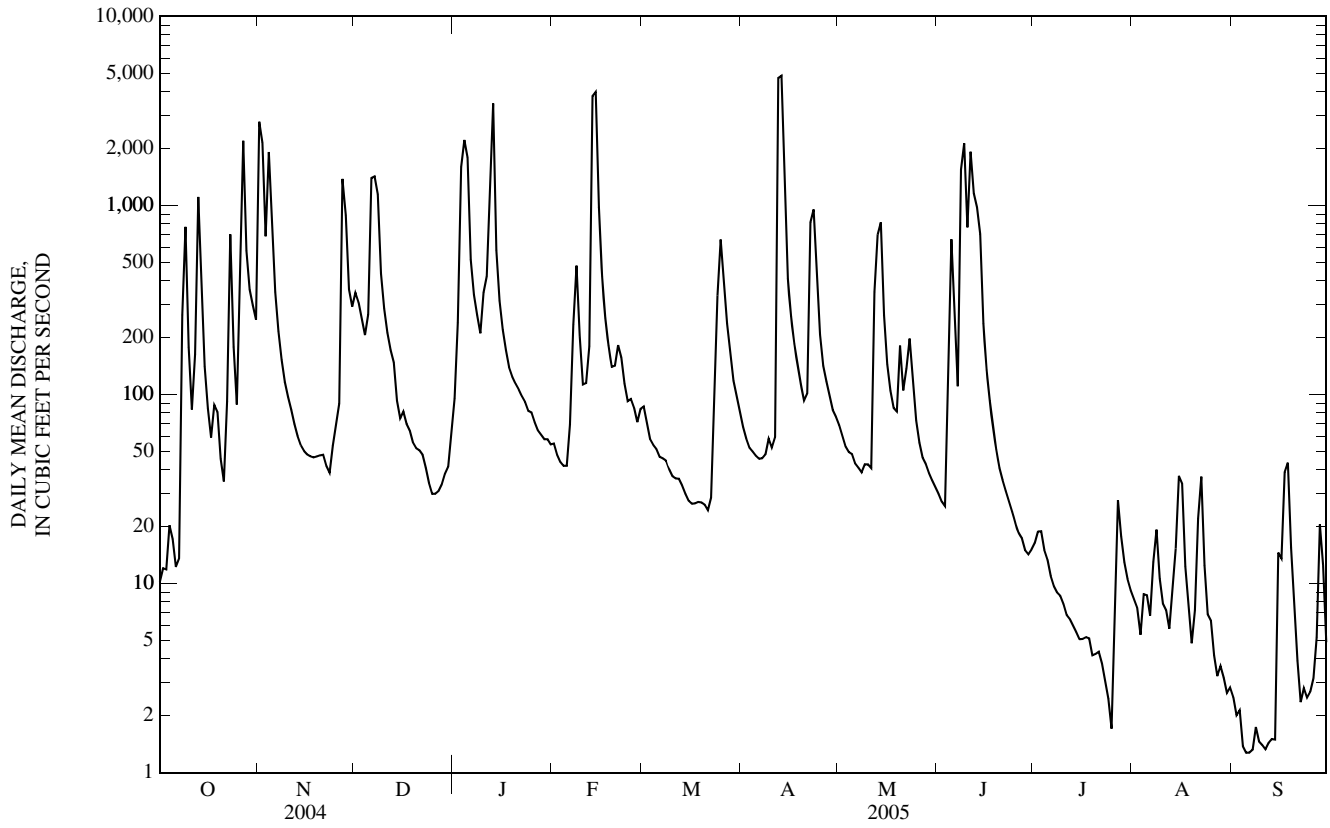
SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1974 - 2005
ANNUAL MEAN	210	253	279
HIGHEST ANNUAL MEAN			767
LOWEST ANNUAL MEAN			30.1
HIGHEST DAILY MEAN	4,220	Aug 28	4,860
LOWEST DAILY MEAN	6.9	Aug 1	1.3
ANNUAL SEVEN-DAY MINIMUM	8.2	Jul 26	1.4
MAXIMUM PEAK FLOW	---		6,720
MAXIMUM PEAK STAGE	---		14.39
INSTANTANEOUS LOW FLOW	---		0.99
ANNUAL RUNOFF (INCHES)	7.82		9.40
10 PERCENT EXCEEDS	443		692
50 PERCENT EXCEEDS	60		54
90 PERCENT EXCEEDS	15		5.1

e Estimated

^a Discharge determined by indirect measurement of peak flow.

05502300 NORTH FORK SALT RIVER AT HAGERS GROVE, MO—Continued



05502500 NORTH FORK SALT RIVER NEAR SHELBYNA, MO

LOCATION.--Lat 39°44'29", long 92°02'28", in SW ¼ NE ¼ sec.17, T.57 N., R.10 W., Shelby County, Hydrologic Unit 07110005, on right bank near downstream end of bridge on State Highway 15, 3.0 mi north of Shelbina, 15.0 mi upstream from Black Creek, and at mile 122.3.

DRAINAGE AREA.--481 mi².

PERIOD OF RECORD.--April 1930 to February 1934, March 1934 to September 1972. March 1988 to current year. Prior to March 1988 published as "Salt River near Shelbina, Mo.". Fragmentary record prior to October 1933. Monthly discharge only for period October 1933 to February 1934 published in WSP 1308.

GAGE.--Water-stage recorder and crest-stage gage with concrete control since Mar. 25, 1988. Datum of gage is 664.58 ft above National Geodetic Vertical Datum of 1929. Prior to Mar. 1, 1934, nonrecording gage at site 100 ft downstream at present datum; Mar. 1, 1934, to Nov. 2, 1962, water-stage recorder at site 175 ft downstream at present datum; Nov. 3, 1962, to Sept. 30, 1972, water-stage recorder at site 100 ft upstream at present datum; Oct. 1, 1972, to Sept. 30, 1979, gage-height records collected by U.S. Army Corps of Engineers, St. Louis District, at site 100 ft downstream; Oct. 1, 1979, to Sept. 1981, gage-height data collected by the U.S. Geological Survey at site 100 ft downstream.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Water is pumped from river at the gage by the city of Shelbina. U. S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1928 reached a stage of 23.54 ft, from floodmarks, discharge 18,000 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	22	2,870	393	100	63	121	86	72	36	27	8.2	4.4
2	28	4,730	386	173	62	105	72	62	35	26	7.6	4.0
3	29	1,560	302	1,230	e56	90	65	56	34	29	7.0	4.0
4	30	2,490	238	3,730	e54	86	61	53	233	28	8.3	3.8
5	36	1,640	238	3,580	e53	81	59	52	995	25	13	4.1
6	32	611	1,480	1,650	74	76	59	53	450	23	6.4	3.7
7	39	355	1,920	696	150	73	58	50	160	21	5.9	3.4
8	231	236	1,600	425	580	67	58	51	479	18	8.4	4.3
9	818	166	694	302	320	62	65	54	3,860	17	10	4.3
10	302	134	410	523	172	56	68	55	1,200	16	6.0	4.4
11	100	117	288	688	122	53	69	56	2,120	13	4.4	2.6
12	93	100	214	1,290	200	52	2,500	144	1,670	13	4.3	2.3
13	1,000	85	166	4,630	2,560	49	5,690	551	985	13	5.6	3.1
14	568	76	109	2,750	6,050	46	4,230	1,080	981	12	10	4.7
15	187	70	e92	e470	3,830	42	639	373	345	11	11	6.1
16	98	68	e107	e275	798	41	324	172	176	11	24	15
17	66	67	e93	e198	442	39	216	115	118	11	16	19
18	118	68	e82	e163	276	39	164	89	90	11	8.2	35
19	142	68	e65	e145	202	39	132	83	74	8.9	8.9	24
20	73	67	e59	e134	191	39	111	120	62	9.1	9.7	11
21	51	63	e60	e127	227	38	109	116	54	8.2	11	6.9
22	43	60	e50	e113	230	41	478	94	49	8.7	22	5.4
23	846	57	e46	e103	173	75	1,040	166	42	9.2	25	5.4
24	430	77	37	e93	140	270	740	174	38	6.9	11	5.7
25	163	106	33	e91	126	697	275	86	35	6.4	8.8	5.8
26	381	208	35	e85	115	613	167	61	34	8.1	7.9	6.7
27	3,560	1,910	35	e73	105	344	130	49	31	20	6.4	7.6
28	1,240	1,860	40	e73	113	225	108	43	28	18	7.6	13
29	521	601	48	e71	---	164	92	41	26	11	8.1	19
30	353	350	58	68	---	130	81	39	26	8.9	5.2	19
31	298	---	85	63	---	107	---	36	---	10	4.2	---
MEAN	384	696	305	778	624	128	598	137	482	14.8	9.68	8.59
MAX	3,560	4,730	1,920	4,630	6,050	697	5,690	1,080	3,860	29	25	35
MIN	22	57	33	63	53	38	58	36	26	6.4	4.2	2.3
IN.	0.92	1.61	0.73	1.86	1.35	0.31	1.39	0.33	1.12	0.04	0.02	0.02

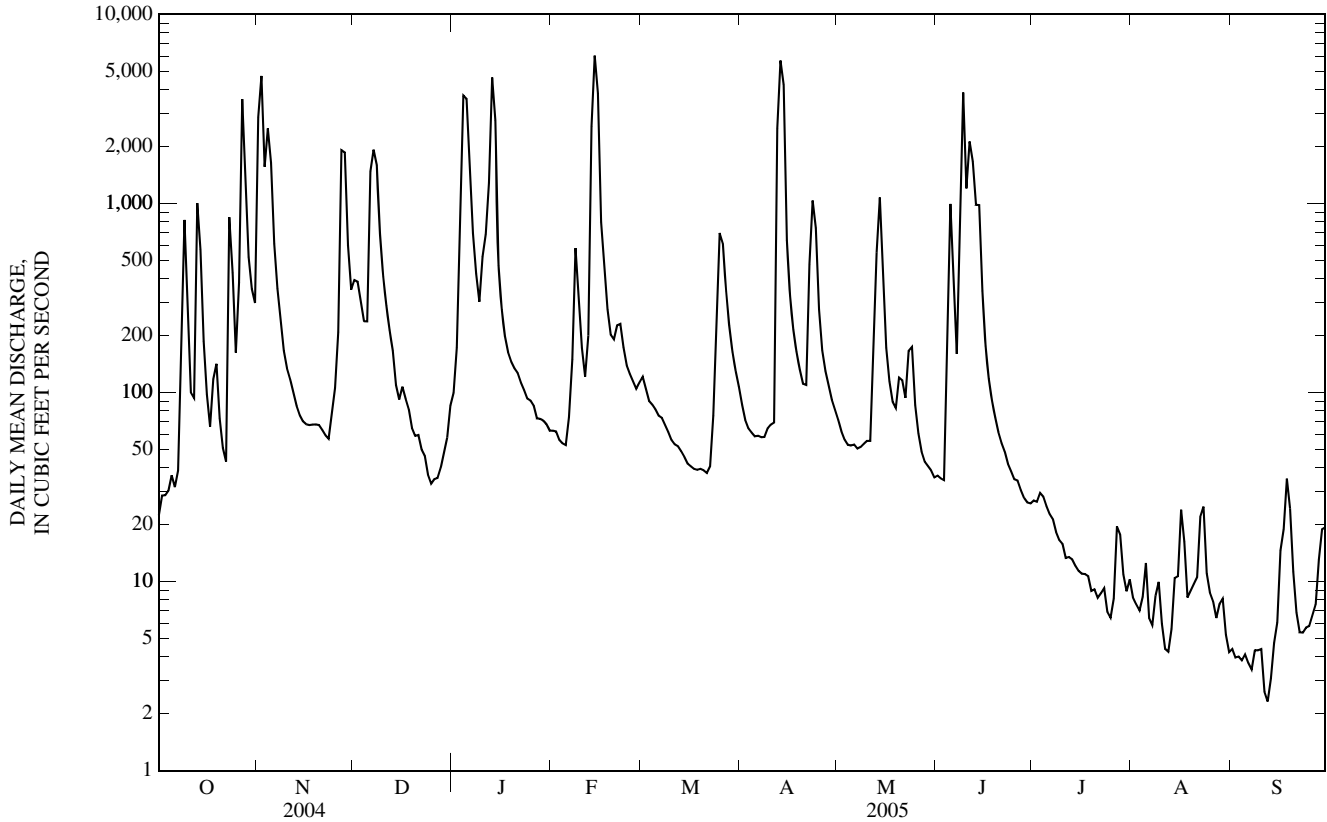
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	143	179	158	218	377	440	528	550	427	321	128	152
MAX	1,208	1,327	835	1,319	1,475	1,417	1,944	3,559	4,171	4,119	1,214	1,831
(WY)	(1999)	(1993)	(1972)	(1965)	(1997)	(1948)	(1944)	(2002)	(1947)	(1993)	(1970)	(1970)
MIN	0.00	0.00	0.00	0.01	1.80	6.41	7.24	12.2	2.93	0.00	0.00	0.00
(WY)	(1953)	(1954)	(1954)	(1954)	(1934)	(1956)	(1989)	(2000)	(1988)	(1934)	(1936)	(1953)

e Estimated

05502500 NORTH FORK SALT RIVER NEAR SHELBYNA, MO—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	321		344		304	
HIGHEST ANNUAL MEAN					1,037	1993
LOWEST ANNUAL MEAN					36.2	1989
HIGHEST DAILY MEAN	5,980	Aug 29	6,050	Feb 14	20,500	May 14, 2002
LOWEST DAILY MEAN	14	Aug 17	2.3	Sep 12	0.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	19	Feb 4	3.5	Sep 7	0.00	Many Years
MAXIMUM PEAK FLOW	---		6,650	Feb 14	24,600	May 13, 2002
MAXIMUM PEAK STAGE	---		16.69	Feb 14	27.40	Jun 7, 1947
INSTANTANEOUS LOW FLOW	---		1.8	Sep 12	0.00	Many Years
ANNUAL RUNOFF (INCHES)	9.09		9.70		8.58	
10 PERCENT EXCEEDS	754		829		660	
50 PERCENT EXCEEDS	73		69		33	
90 PERCENT EXCEEDS	24		7.8		2.2	



05503800 CROOKED CREEK NEAR PARIS, MO

LOCATION.--Lat 39°35'05", long 91°59'37", NE ¼ NW ¼ SW ¼ sec.2, T.55 N., R.10 W., Monroe County, Hydrologic Unit 07110005, on right bank downstream from county road bridge, 7.0 mi north of Paris, 1.4 mi north of State Route 15, and at mile 8.9.

DRAINAGE AREA.--80.0 mi².

PERIOD OF RECORD.--October 1979 to current year. March 1966 to October 1979 published in report of the U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 650.00 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 8, 1967, wire-weight gage and Nov. 9, 1967, to Sept. 30, 1979, recording gage at datum 50 ft lower.

REMARKS.--Records fair 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 April 21, 1973 reached a stage of 15.53 ft; discharge, 12,100 ft³/s, according to information furnished 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	1.4	793	49	8.7	14	17	15	3.5	1.5	0.84	0.00	0.00
2	1.5	739	55	9.9	13	16	13	3.0	1.4	0.78	0.00	0.00
3	1.3	91	48	452	13	16	13	2.9	1.4	0.69	0.00	0.00
4	1.3	288	35	622	13	15	12	2.8	46	0.80	0.00	0.00
5	1.3	96	40	1,090	13	14	12	2.7	460	0.82	0.00	0.00
6	1.1	35	278	479	14	14	12	2.6	129	0.86	0.00	0.00
7	2.7	22	572	85	20	14	12	2.6	23	0.89	0.00	0.00
8	213	15	239	52	26	14	12	3.2	11	0.85	0.00	0.00
9	80	12	67	40	26	13	11	3.2	236	0.72	0.00	0.00
10	21	9.4	45	91	20	13	11	2.8	69	0.66	0.00	0.00
11	11	8.1	34	162	18	12	12	2.5	192	0.55	0.00	0.00
12	8.3	7.2	29	360	19	12	159	3.0	50	0.49	0.00	0.00
13	19	7.0	23	1,450	722	12	75	26	91	0.43	0.00	0.00
14	21	6.9	17	331	894	11	23	30	92	0.36	0.03	0.00
15	15	6.5	13	52	129	11	13	13	20	0.31	0.02	0.00
16	9.4	6.3	12	35	58	11	9.4	6.1	8.7	0.25	0.00	0.00
17	7.1	6.1	11	25	39	11	7.4	3.9	5.4	0.20	0.00	0.00
18	11	6.5	11	21	31	11	6.2	2.9	3.9	0.18	0.00	0.00
19	34	7.0	e9.5	20	26	11	5.4	2.4	3.1	0.15	0.00	0.00
20	17	6.4	8.4	21	26	11	7.9	2.2	2.5	0.10	0.00	e0.00
21	10	6.0	8.5	21	28	11	43	2.0	2.1	0.06	0.00	e0.00
22	7.9	5.9	7.2	19	25	16	19	3.1	1.9	0.04	0.00	0.00
23	7.1	5.9	5.8	15	22	39	13	18	1.7	0.01	0.00	0.00
24	48	34	4.8	14	20	34	7.5	9.1	1.6	0.00	0.00	0.00
25	19	70	4.6	15	19	34	5.9	4.3	1.5	0.00	0.00	0.00
26	116	154	5.2	15	18	39	5.6	2.8	1.4	0.00	0.01	0.00
27	477	787	5.2	14	17	33	4.8	2.2	1.5	0.01	0.01	0.00
28	105	501	5.4	14	18	26	4.0	1.9	1.3	0.00	0.00	0.00
29	32	76	6.3	13	---	21	3.9	1.7	1.1	0.00	0.00	0.00
30	19	48	6.9	14	---	19	3.9	1.6	0.98	0.00	0.00	0.00
31	13	---	8.3	14	---	16	---	1.6	---	0.00	0.00	---
MEAN	42.9	129	53.7	180	82.2	17.6	18.4	5.47	48.7	0.36	0.00	0.00
MAX	477	793	572	1,450	894	39	159	30	460	0.89	0.03	0.00
MIN	1.1	5.9	4.6	8.7	13	11	3.9	1.6	0.98	0.00	0.00	0.00
IN.	0.62	1.79	0.77	2.59	1.07	0.25	0.26	0.08	0.68	0.01	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2005, BY WATER YEAR (WY)

	MEAN	24.3	58.5	51.3	36.7	76.7	75.0	82.4	136	67.9	67.7	29.3	34.3
MAX	321	550	247	180	359	244	319	669	250	554	228	510	
(WY)	(1987)	(1986)	(1983)	(2005)	(1985)	(1998)	(1983)	(1995)	(1998)	(1993)	(2004)	(1993)	
MIN	0.00	0.00	0.00	0.00	0.00	0.07	0.16	1.53	0.03	0.00	0.00	0.00	0.00
(WY)	(1980)	(1981)	(1989)	(1989)	(1989)	(1989)	(1989)	(1988)	(1988)	(1988)	(1988)	(1988)	(1983)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

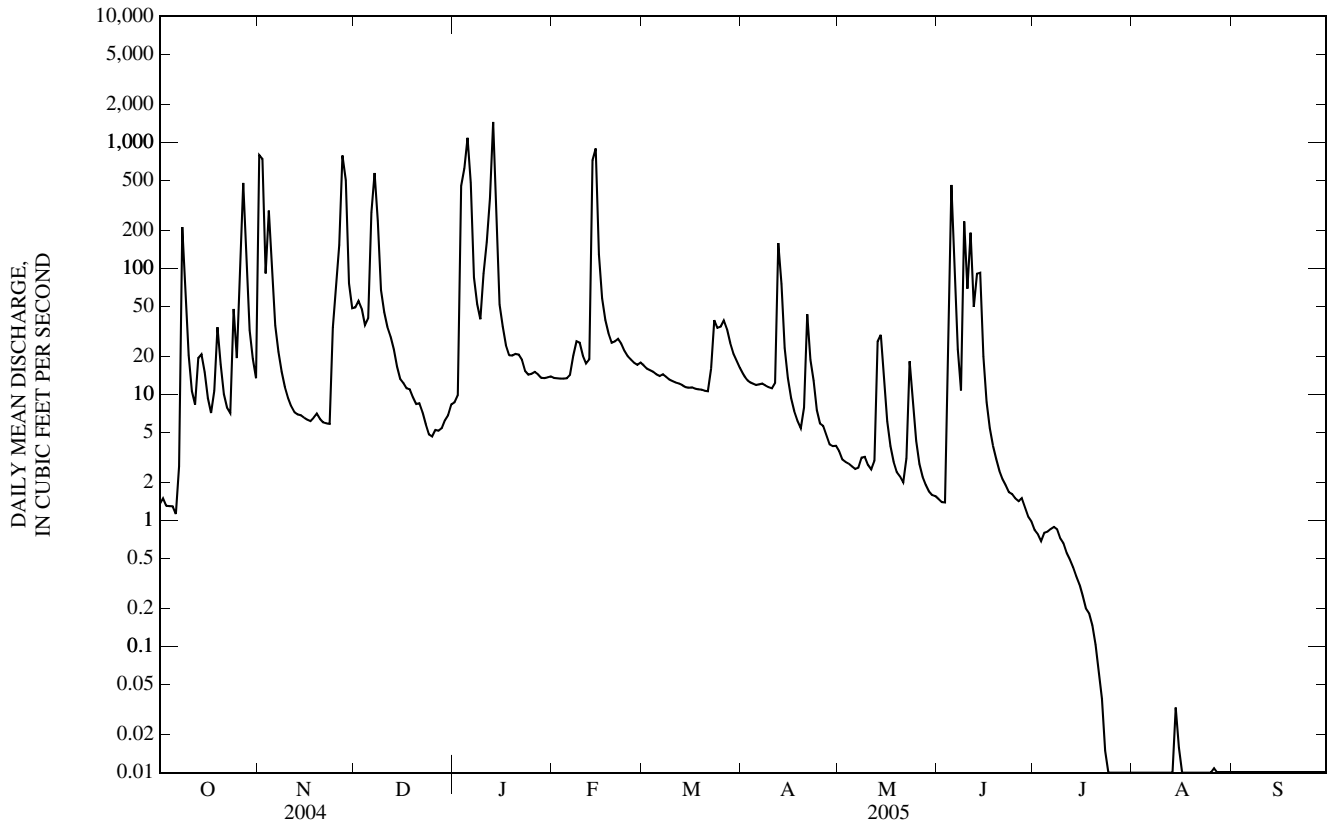
FOR 2005 WATER YEAR

WATER YEARS 1980 - 2005

ANNUAL MEAN	52.5	47.9	61.6
HIGHEST ANNUAL MEAN			179
LOWEST ANNUAL MEAN			7.38
HIGHEST DAILY MEAN	2,800	Aug 28	1,450
LOWEST DAILY MEAN	0.49	Jul 28	0.00
ANNUAL SEVEN-DAY MINIMUM	0.67	Jul 27	0.00
MAXIMUM PEAK FLOW	---		1,820
MAXIMUM PEAK STAGE	---		7.77
INSTANTANEOUS LOW FLOW	---		0.00
ANNUAL RUNOFF (INCHES)	8.93	8.12	10.46
10 PERCENT EXCEEDS	83	78	84
50 PERCENT EXCEEDS	6.9	8.7	3.3
90 PERCENT EXCEEDS	1.4	0.00	0.00

e Estimated

05503800 CROOKED CREEK NEAR PARIS, MO—Continued



05504800 SOUTH FORK SALT RIVER ABOVE SANTA FE, MO

LOCATION.--Lat 39°19'34", long 91°50'02", in SE 1/4 SE 1/4 sec.31, T.53 N., R.8 W., Audrain County, Hydrologic Unit 07110006, on left bank near downstream side of bridge on county road ZZ, 3.6 mi southwest of Santa Fe, 1.0 mi upstream from Littleby Creek, and at mile 104.2 above mouth of Salt River.

DRAINAGE AREA.--233 mi².

PERIOD OF RECORD.--February 1940 to Oct. 22, 2002, May 14, 2003 to current year. Published as "near Santa Fe" (05504900) October 1968 to September 1975 and as "at Santa Fe" (05505000) February 1940 to September 1968 and October 1975 to September 1986.

GAGE.--Water-stage recorder. Datum of gage is 644.87 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 5, 1940, nonrecording gage; Feb. 5, 1940, to Sept. 30, 1968, and Oct. 1, 1975 to Sept. 30, 1986, water-stage recorder 8.0 mi downstream at datum 613.05; Oct. 1, 1968, to Sept. 30, 1975, water-stage recorder, 1.0 mi downstream at datum 5.78 ft lower.

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	7.2	4,000	278	36	41	46	31	28	11	4.4	1.4	7.8
2	7.6	3,580	252	38	40	43	27	25	8.4	3.6	1.0	5.4
3	7.3	605	181	1,380	37	39	24	22	8.2	3.5	0.81	3.9
4	7.8	1,130	128	3,210	36	37	23	20	7.5	3.7	0.49	2.7
5	5.8	460	104	5,210	35	35	22	19	7.9	3.4	0.65	1.9
6	5.2	204	257	4,470	36	33	22	18	6.6	3.1	0.41	1.5
7	5.6	131	2,340	677	52	34	23	17	7.4	2.6	0.17	1.3
8	8.4	92	1,910	339	102	35	23	16	7.0	3.5	3.4	1.1
9	22	70	369	260	143	35	22	16	33	3.9	1.7	1.2
10	16	57	223	390	107	32	21	16	111	3.5	1.0	1.2
11	12	51	154	424	80	29	23	15	281	2.1	0.56	1.4
12	11	48	120	756	81	27	80	17	176	1.1	0.37	1.6
13	50	43	95	5,690	1,940	25	199	19	168	1.6	7.1	1.6
14	62	37	75	3,710	2,910	24	98	15	427	1.2	52	1.7
15	49	37	60	382	589	23	59	17	146	1.4	86	2.5
16	27	34	53	239	272	22	42	18	58	1.5	58	3.0
17	18	31	51	225	167	22	33	14	32	2.0	32	6.7
18	1,100	36	49	181	124	21	28	12	21	1.2	17	4.4
19	976	571	46	112	99	21	26	11	15	0.69	12	2.6
20	212	353	43	102	87	20	25	9.9	12	0.42	9.1	1.9
21	107	151	38	101	84	20	26	9.5	9.6	0.34	6.0	1.7
22	70	98	35	91	76	47	705	30	8.5	0.30	4.4	1.5
23	52	81	39	82	65	255	346	67	7.3	0.33	3.4	1.6
24	42	1,780	27	61	58	187	125	35	6.5	0.30	2.7	3.2
25	34	2,560	23	52	53	106	72	24	6.0	0.18	4.3	3.9
26	80	1,210	21	53	49	80	56	17	5.5	0.21	7.0	4.2
27	278	2,390	22	53	47	65	47	13	4.9	0.29	203	3.1
28	153	1,780	22	47	47	54	40	11	4.4	0.24	121	3.6
29	82	383	25	42	---	47	35	9.0	3.7	0.48	40	5.3
30	227	251	29	41	---	41	33	8.2	3.9	0.73	19	3.2
31	206	---	34	42	---	36	---	9.6	---	1.2	12	---
MEAN	127	742	229	919	266	49.7	77.9	18.7	53.5	1.71	22.8	2.89
MAX	1,100	4,000	2,340	5,690	2,910	255	705	67	427	4.4	203	7.8
MIN	5.2	31	21	36	35	20	21	8.2	3.7	0.18	0.17	1.1
IN.	0.63	3.55	1.13	4.55	1.19	0.25	0.37	0.09	0.26	0.01	0.11	0.01

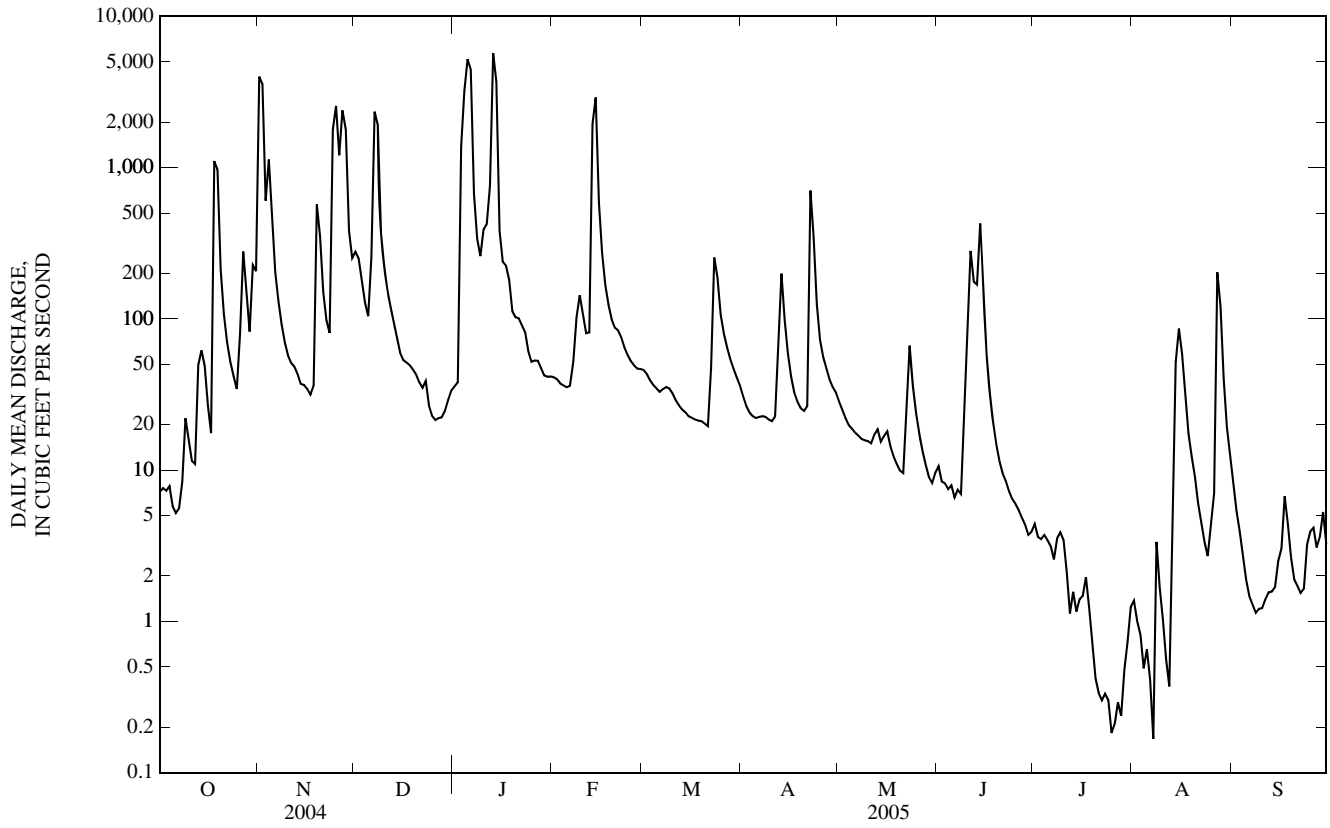
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	121	136	131	152	226	299	326	305	237	193	61.2	125
MAX	1,646	1,378	1,447	919	1,031	1,715	1,734	2,238	1,307	2,415	544	1,830
(WY)	(1942)	(1986)	(1983)	(2005)	(1985)	(1973)	(1944)	(1943)	(1942)	(1969)	(1982)	(1993)
MIN	0.01	0.36	0.58	1.18	1.91	2.74	3.42	5.92	3.28	1.31	0.46	0.22
(WY)	(1954)	(1954)	(1964)	(1963)	(1954)	(1954)	(2000)	(1980)	(1988)	(1944)	(1964)	(1960)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	FOR PERIOD OF RECORD
ANNUAL MEAN	228	209	193
HIGHEST ANNUAL MEAN			509
LOWEST ANNUAL MEAN			10.7
HIGHEST DAILY MEAN	6,290	Aug 26	24,000
LOWEST DAILY MEAN	0.14	Jul 24	0.00
ANNUAL SEVEN-DAY MINIMUM	1.4	Jul 20	0.00
MAXIMUM PEAK FLOW	---		6,150
MAXIMUM PEAK STAGE	---		17.62
INSTANTANEOUS LOW FLOW	---		0.07
ANNUAL RUNOFF (INCHES)	13.33		12.16
10 PERCENT EXCEEDS	493		304
50 PERCENT EXCEEDS	39		31
90 PERCENT EXCEEDS	5.8		1.6

05504800 SOUTH FORK SALT RIVER ABOVE SANTA FE, MO—Continued



05506100 LONG BRANCH NEAR SANTA FE, MO

LOCATION.--Lat 39°21'21", long 91°50'03", in NE ¼ SE ¼ SE ¼ sec. 19, T.53 N., R.8 W., Monroe County, Hydrologic Unit 07110006, on left bank on west side of concrete ford on County Road 614, 2 mi southwest of Santa Fe.

DRAINAGE AREA.--180 mi².

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 625.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records fair except for discharges below 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	0.68	4,630	96	17	23	28	22	12	0.60	0.60	0.00	5.9
2	0.81	3,760	93	18	24	26	21	9.5	0.46	0.37	0.00	3.4
3	0.55	1,590	81	1,380	22	24	19	8.2	0.38	0.27	0.00	2.1
4	0.55	973	66	2,160	21	22	18	6.8	0.38	0.24	0.00	1.3
5	0.41	392	55	4,740	21	21	17	5.9	0.43	0.20	0.00	0.83
6	0.37	144	323	2,610	22	20	18	5.4	14	0.25	0.00	0.58
7	0.47	67	2,540	836	35	22	18	5.1	9.7	0.22	0.00	0.46
8	7.5	44	1,430	153	61	22	18	4.6	8.4	0.16	0.00	0.35
9	94	33	619	93	70	21	18	4.3	191	0.13	0.00	0.49
10	36	26	124	213	61	20	17	3.9	297	0.07	0.00	0.47
11	15	22	76	284	47	19	20	3.0	200	0.03	0.00	0.27
12	16	18	58	923	44	17	96	4.1	96	0.01	0.00	0.14
13	19	16	47	5,630	2,170	16	147	4.1	137	0.00	0.05	0.15
14	50	14	38	2,260	2,290	15	100	57	286	0.00	12	0.20
15	32	13	33	380	981	14	60	65	128	0.00	89	0.39
16	15	12	28	100	176	13	41	39	52	0.00	53	0.40
17	9.6	11	26	104	95	13	33	19	28	0.00	26	0.29
18	250	18	24	100	69	12	27	9.2	16	0.00	15	0.27
19	562	67	22	49	54	12	23	5.1	10	0.00	9.1	0.18
20	171	30	20	49	50	11	23	3.3	7.2	0.00	5.7	0.13
21	59	28	19	50	46	11	21	2.3	5.4	0.00	3.5	0.06
22	30	21	17	46	42	31	681	59	4.3	0.00	2.4	0.03
23	18	18	14	44	38	93	362	49	3.4	0.00	1.8	0.06
24	12	1,050	15	36	35	84	128	18	2.4	0.00	1.2	0.06
25	8.7	1,240	13	32	33	69	64	7.5	1.8	0.00	1.5	0.03
26	13	1,370	12	33	30	54	43	5.6	1.2	0.00	2.6	0.02
27	315	3,030	12	31	28	44	29	4.5	0.83	0.00	49	0.01
28	196	1,590	12	26	30	37	23	2.5	0.69	0.00	89	0.00
29	87	616	13	26	---	32	19	1.5	0.61	0.00	48	0.00
30	138	128	14	25	---	28	16	1.2	0.72	0.00	22	0.00
31	112	---	16	24	---	25	---	0.82	---	0.00	11	---
MEAN	73.2	699	192	725	236	28.3	71.4	13.8	50.1	0.08	14.3	0.62
MAX	562	4,630	2,540	5,630	2,290	93	681	65	297	0.60	89	5.9
MIN	0.37	11	12	17	21	11	16	0.82	0.38	0.00	0.00	0.00
IN.	0.47	4.33	1.23	4.64	1.37	0.18	0.44	0.09	0.31	0.00	0.09	0.00

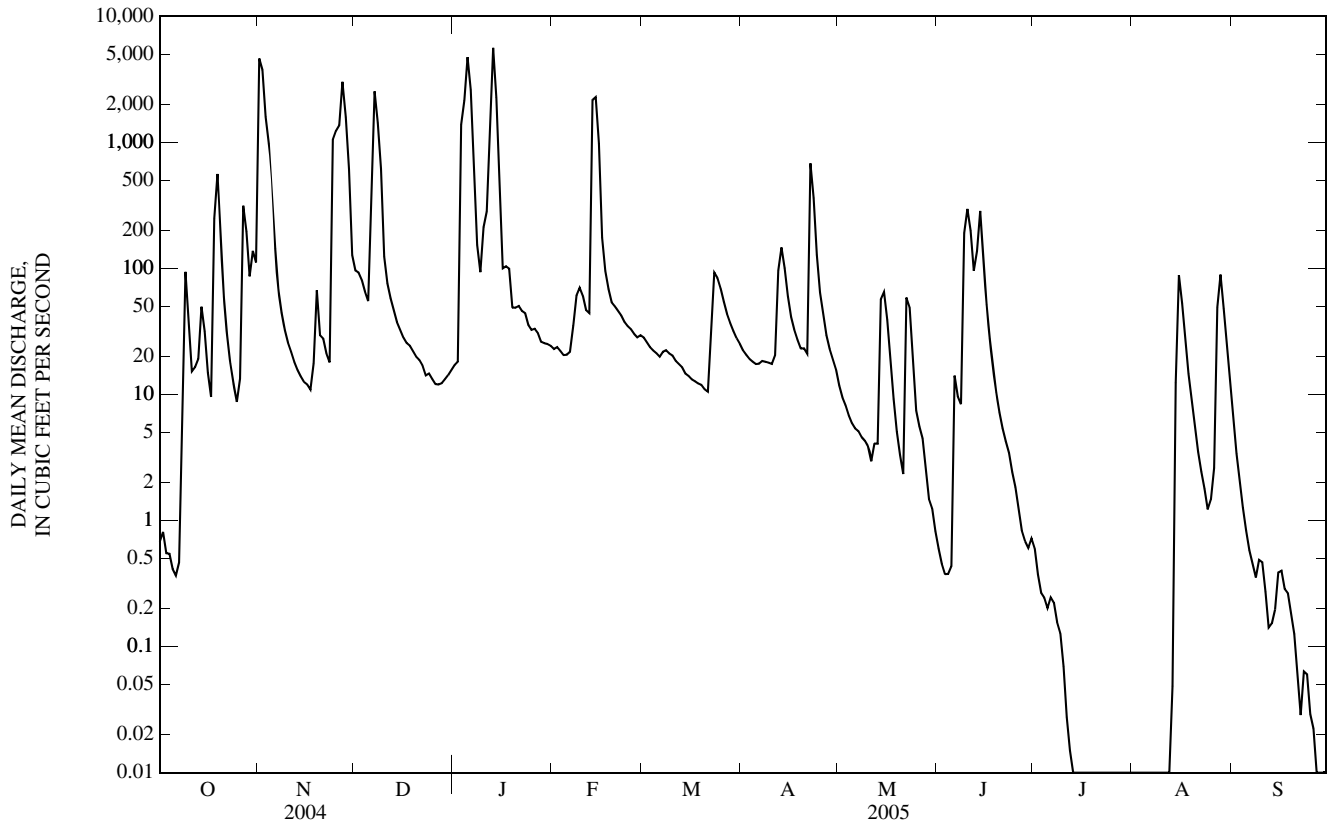
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2005, BY WATER YEAR (WY)

	39.4	107	54.2	206	269	142	196	311	170	116	95.2	33.8
MEAN	39.4	107	54.2	206	269	142	196	311	170	116	95.2	33.8
MAX	266	699	272	725	1,053	487	636	1,062	514	943	507	255
(WY)	(1999)	(2005)	(2004)	(2005)	(1997)	(1998)	(1999)	(1995)	(1998)	(1998)	(2004)	(2003)
MIN	0.01	0.00	0.61	0.11	17.6	13.1	1.25	13.8	18.5	0.08	0.04	0.00
(WY)	(2000)	(2000)	(2000)	(2000)	(1996)	(2000)	(2000)	(2005)	(2004)	(2005)	(1999)	(1999)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1995 - 2005
ANNUAL MEAN	178	175	138
HIGHEST ANNUAL MEAN			237
LOWEST ANNUAL MEAN			35.8
HIGHEST DAILY MEAN	4,630	Nov 1	5,630
LOWEST DAILY MEAN	0.29	Jul 1	0.00
ANNUAL SEVEN-DAY MINIMUM	0.46	Jul 26	0.00
MAXIMUM PEAK FLOW	---		7,440
MAXIMUM PEAK STAGE	---		14.50
INSTANTANEOUS LOW FLOW	---		0.00
ANNUAL RUNOFF (INCHES)	13.45		13.16
10 PERCENT EXCEEDS	259		205
50 PERCENT EXCEEDS	20		18
90 PERCENT EXCEEDS	1.3		0.02

05506100 LONG BRANCH NEAR SANTA FE, MO—Continued



05506350 MIDDLE FORK SALT RIVER NEAR HOLLIDAY, MO

LOCATION.--Lat 39°31'27", long 92°07'40", in NE ¼ SW ¼ NW ¼ sec. 27, T. 55 N., R. 11 W., Monroe County, Hydrologic Unit 07110006, on right bank, downstream side of Highway A bridge, approximately 2.1 mi north of Holliday.

DRAINAGE AREA.--313 mi².

PERIOD OF RECORD.--Dec. 17, 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 651.00 ft above National Geodetic Vertical Datum of 1929.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	2,140	208	53	57	67	58	43	19	10	7.3	e3.7
2	17	2,640	198	59	56	64	49	38	16	9.6	5.9	e3.1
3	16	2,330	193	1,110	55	61	43	34	14	9.4	5.1	e2.7
4	17	1,680	161	2,320	55	57	40	30	252	9.6	4.5	e2.3
5	16	1,160	162	3,980	56	52	38	28	1,300	9.4	4.0	e2.0
6	17	513	887	3,520	59	48	37	26	630	9.3	3.4	e1.8
7	18	214	1,850	1,330	82	47	37	24	187	8.9	3.1	e1.7
8	194	137	1,250	356	120	45	36	26	842	9.2	2.6	e1.7
9	218	101	544	242	188	42	34	26	3,570	9.3	3.2	e1.9
10	94	81	255	459	134	40	33	25	4,670	8.1	3.7	e1.9
11	53	71	176	706	96	37	68	21	3,140	7.7	3.1	e1.8
12	40	63	137	978	92	36	1,360	25	1,240	7.2	3.5	e1.8
13	29	55	111	3,740	1,980	34	1,240	328	756	6.8	8.5	e1.9
14	27	49	90	2,600	3,240	32	700	197	1,150	6.6	8.2	e2.0
15	71	45	74	1,020	2,550	30	256	129	483	6.1	5.5	e4.0
16	63	42	67	232	1,370	29	133	78	160	5.4	5.5	e5.5
17	37	41	e60	172	274	27	94	48	90	5.0	5.4	e9.2
18	41	40	e56	e133	183	27	75	33	68	5.0	7.7	e10
19	144	41	e50	e118	144	27	63	25	52	5.1	6.8	e9.7
20	70	40	e44	e104	132	26	55	21	40	5.3	5.8	e8.1
21	43	39	e41	e95	131	25	231	18	32	5.3	5.2	e5.8
22	41	37	e37	e90	127	38	600	2,360	24	5.3	7.8	e4.3
23	82	36	e35	e86	114	219	278	2,080	21	5.3	17	e3.4
24	450	99	e31	80	98	222	174	338	18	5.3	10	e3.2
25	231	247	28	71	86	174	104	128	16	5.0	9.5	e3.7
26	202	440	28	69	76	254	86	69	16	5.3	8.1	e4.5
27	1,480	2,120	29	66	70	220	76	48	15	7.3	6.9	e4.5
28	1,380	2,080	31	60	70	148	62	36	14	5.6	5.0	13
29	593	1,090	36	60	---	110	54	29	12	5.3	4.1	14
30	203	302	41	59	---	86	48	24	11	13	3.9	13
31	146	---	49	58	---	70	---	22	---	9.9	3.7	---
MEAN	195	599	224	775	418	77.2	205	205	629	7.28	5.94	4.87
MAX	1,480	2,640	1,850	3,980	3,240	254	1,360	2,360	4,670	13	17	14
MIN	16	36	28	53	55	25	33	18	11	5.0	2.6	1.7
IN.	0.72	2.14	0.83	2.86	1.39	0.28	0.73	0.76	2.24	0.03	0.02	0.02

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

MEAN	55.3	150	136	285	334	263	278	551	349	79.3	162	65.3
MAX	195	599	561	775	1,136	693	771	2,021	978	237	981	243
(WY)	(2005)	(2005)	(2004)	(2005)	(2001)	(2004)	(1999)	(2002)	(2001)	(1999)	(2004)	(2003)
MIN	5.57	1.12	4.47	2.12	29.7	34.4	3.89	21.9	72.3	7.28	2.64	2.82
(WY)	(2003)	(2000)	(2003)	(2000)	(2000)	(2003)	(2000)	(2000)	(1999)	(2005)	(1999)	(2002)

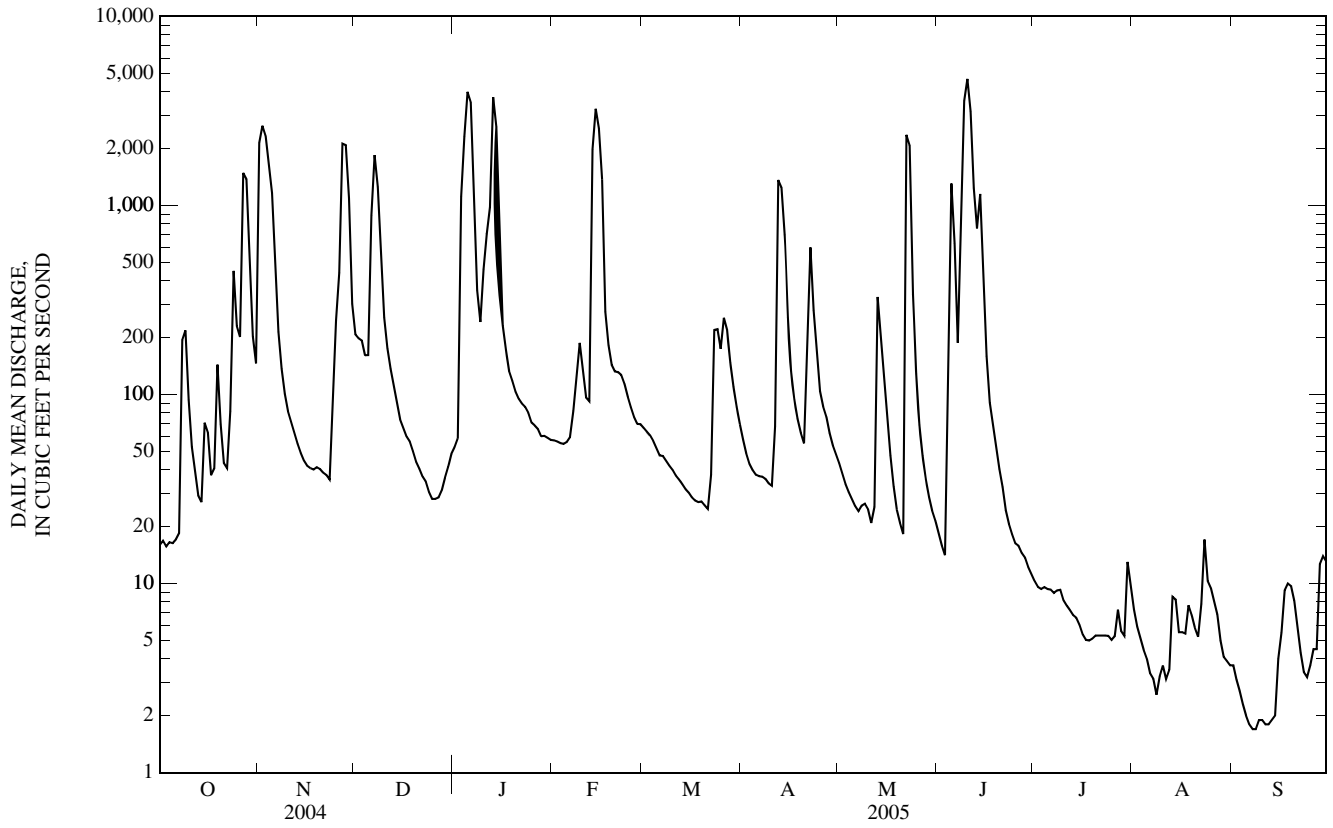
SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1999 - 2005
ANNUAL MEAN	316	277	212
HIGHEST ANNUAL MEAN			297
LOWEST ANNUAL MEAN			44.5
HIGHEST DAILY MEAN	6,290	Aug 29	4,670
LOWEST DAILY MEAN	7.4	Feb 1	e1.7
ANNUAL SEVEN-DAY MINIMUM	8.5	Jan 31	1.8
MAXIMUM PEAK FLOW	---		4,910
MAXIMUM PEAK STAGE	---		18.47
INSTANTANEOUS LOW FLOW	---		--- ^a
ANNUAL RUNOFF (INCHES)	13.77		12.01
10 PERCENT EXCEEDS	810		860
50 PERCENT EXCEEDS	62		45
90 PERCENT EXCEEDS	14		5.0
			2.8

e Estimated

^a Minimum not determined, may have occurred during period of estimated record, Sept. 1-27.

05506350 MIDDLE FORK SALT RIVER NEAR HOLLIDAY, MO—Continued



05506800 ELK FORK SALT RIVER NEAR MADISON, MO

LOCATION.--Lat 39°26'05", long 92°10'04", in SE ¼ NE ¼ SW ¼ sec.29, T.54 N., R.11 W., Monroe County, Hydrologic Unit 07110006, on downstream side and 25 ft to the left of bridge on State Highway AA, 500 ft downstream from Allen Creek, 3.5 mi southeast of Madison, and at mile 29.8.

DRAINAGE AREA.--200 mi².

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

REVISED RECORDS.--WRD MO 1973: 1970(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 690.16 ft above National Geodetic Vertical Datum of 1929 (Missouri State Highway and Transportation Commission bench mark).

REMARKS.--Records fair except for estimated daily discharges and discharges below 10 ft³/s, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 9, 1967, reached a stage of 31.25 ft, from floodmark, discharge 33,300 ft³/s, by contracted-opening method. Flood in 1871 reached nearly the same stage, 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	12	3,310	138	30	35	41	31	22	9.3	6.3	3.8	6.7
2	12	3,160	137	34	36	38	28	20	8.7	5.9	3.4	5.6
3	13	389	117	1,770	34	35	26	18	7.9	5.9	3.7	4.9
4	13	1,480	88	2,890	34	34	25	17	8.7	6.3	4.1	4.5
5	11	385	98	4,390	34	33	25	16	89	6.7	4.8	4.1
6	12	167	760	2,350	37	31	25	15	64	8.1	4.7	3.9
7	15	107	2,250	317	60	33	25	15	29	7.0	4.2	3.6
8	130	74	1,250	200	101	34	25	16	730	5.8	3.9	3.4
9	125	57	261	165	84	32	24	17	2,050	5.5	4.1	4.0
10	45	48	163	509	61	30	24	17	175	5.2	4.1	3.9
11	19	42	115	493	50	30	63	16	251	5.3	4.2	3.6
12	13	37	89	773	50	29	1,240	17	114	5.2	4.3	3.7
13	16	32	71	4,510	2,570	29	294	342	934	5.0	13	3.4
14	20	28	55	1,170	3,560	29	114	311	394	5.0	57	3.7
15	20	28	45	e212	479	27	66	83	100	4.9	68	5.7
16	12	26	42	e124	206	25	47	40	48	4.8	23	5.7
17	8.9	24	40	e93	126	23	38	28	31	4.9	15	5.6
18	58	24	39	e74	91	23	33	21	23	4.8	13	5.7
19	306	27	35	e65	74	23	29	17	19	5.0	11	5.1
20	102	28	30	e58	74	22	27	15	16	4.9	11	5.7
21	46	26	29	e52	74	21	27	13	14	4.5	14	6.1
22	26	25	26	e50	66	52	278	139	12	4.4	15	6.1
23	18	26	23	e48	56	288	168	48	11	4.3	10	5.5
24	41	253	19	e48	50	153	80	26	9.5	4.3	7.5	5.7
25	25	714	19	42	47	105	46	18	8.7	4.2	7.8	6.7
26	29	872	20	42	43	89	39	14	8.2	4.9	10	7.7
27	590	2,690	20	39	41	65	36	11	7.7	5.3	94	6.6
28	221	1,590	21	35	43	54	32	10	6.9	5.5	46	5.6
29	105	274	23	35	---	47	27	9.3	6.8	6.0	19	5.1
30	61	164	26	35	---	41	25	9.5	6.8	4.6	12	4.8
31	52	---	29	36	---	35	---	9.2	---	4.1	8.3	---
MEAN	70.2	537	196	667	293	50.0	98.9	44.2	173	5.31	16.3	5.08
MAX	590	3,310	2,250	4,510	3,560	288	1,240	342	2,050	8.1	94	7.7
MIN	8.9	24	19	30	34	21	24	9.2	6.8	4.1	3.4	3.4
IN.	0.40	3.00	1.13	3.85	1.53	0.29	0.55	0.25	0.97	0.03	0.09	0.03

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

MEAN	94.4	135	134	135	206	257	312	269	194	147	61.3	111
MAX	1,077	1,248	750	667	935	1,154	1,651	1,554	1,005	1,409	577	1,381
(WY)	(1987)	(1986)	(1983)	(2005)	(1985)	(1973)	(1973)	(1995)	(1969)	(1981)	(2004)	(1993)
MIN	0.25	1.24	0.94	0.95	2.07	3.02	4.76	10.0	1.61	1.06	0.82	0.63
(WY)	(1981)	(1981)	(1989)	(1977)	(1989)	(1981)	(2000)	(1992)	(1988)	(1988)	(1980)	(1988)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

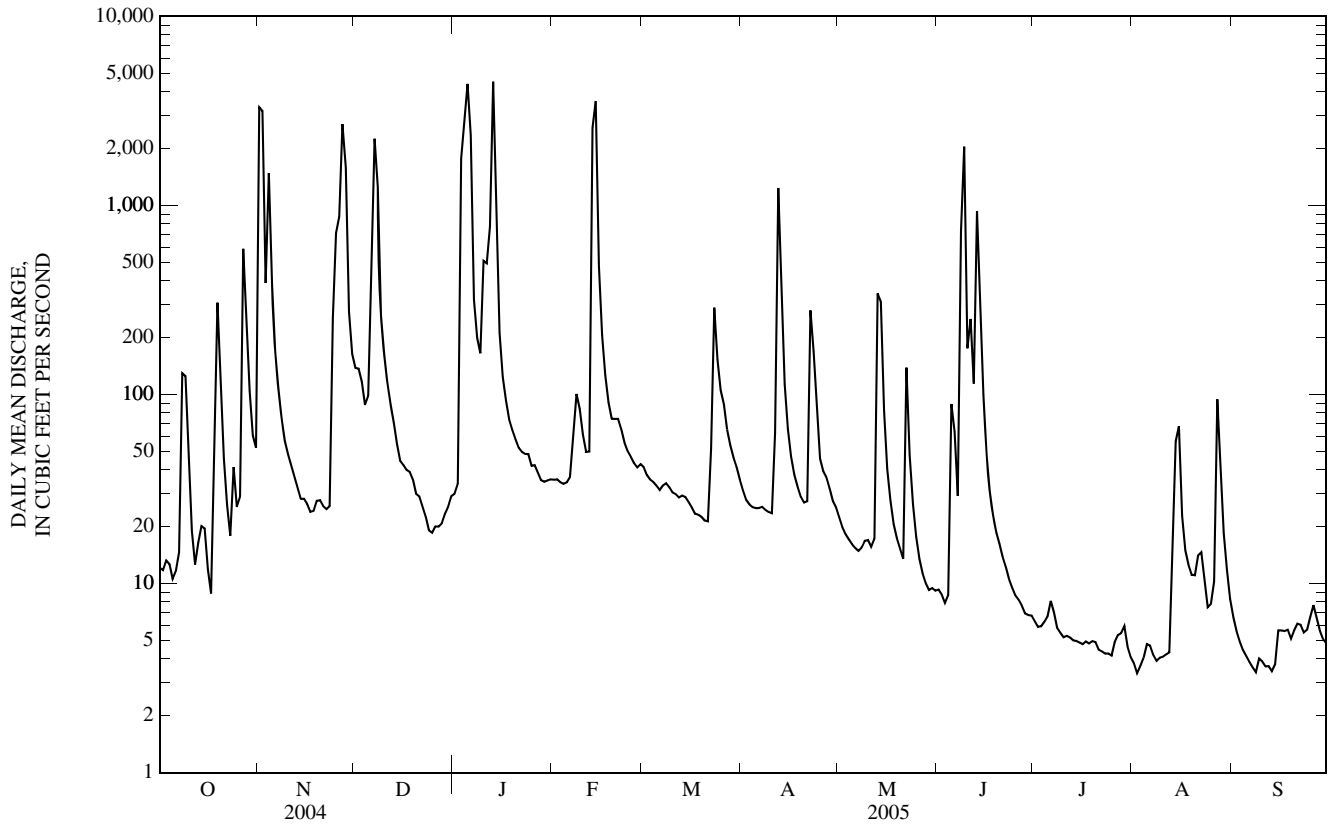
FOR 2005 WATER YEAR

WATER YEARS 1969 - 2005

ANNUAL MEAN	203	179	171
HIGHEST ANNUAL MEAN			380
LOWEST ANNUAL MEAN			23.6
HIGHEST DAILY MEAN	6,200	Aug 29	24,100
LOWEST DAILY MEAN	5.2	Jul 29	0.00
ANNUAL SEVEN-DAY MINIMUM	5.7	Jul 28	0.00
MAXIMUM PEAK FLOW	---		42,300
MAXIMUM PEAK STAGE	---		33.40
INSTANTANEOUS LOW FLOW	---		0.00
ANNUAL RUNOFF (INCHES)	13.84	12.12	11.61
10 PERCENT EXCEEDS	363	282	267
50 PERCENT EXCEEDS	32	28	15
90 PERCENT EXCEEDS	10	4.9	1.4

e Estimated

05506800 ELK FORK SALT RIVER NEAR MADISON, MO—Continued



SALT RIVER BASIN

05507600 LICK CREEK AT PERRY, MO

LOCATION.--Lat 39°25'53", long 91°40'34", near center of NW ¼ SW ¼ sec.27, T.54 N., R.7 W., Ralls County, Hydrologic Unit 07110007, on right bank and downstream side of State Highway 154 bridge. 0.1 mi west of Perry, and at mile 11.9.

DRAINAGE AREA.--104 mi².

PERIOD OF RECORD.--October 1979 to current year. Prior to October 1979 gages were maintained and operated by the U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 625.00 ft above National Geodetic Vertical Datum of 1929. Prior to November 1967, nonrecording gage at same site and datum.

REMARKS.--Records fair 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 Oct. 12, 1969, reached a stage of 26.24 ft, as determined 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	1.5	3,780	167	9.4	13	14	7.0	3.8	0.79	0.10	0.00	0.01
2	2.0	1,040	99	11	13	12	6.1	3.4	0.70	0.08	0.00	0.01
3	1.9	251	56	1,590	13	12	5.6	3.1	0.84	0.07	0.00	0.00
4	1.8	428	37	1,520	13	12	5.4	2.9	1.6	0.09	0.00	0.00
5	1.7	107	32	4,490	13	11	5.1	2.7	1.9	0.07	0.00	0.00
6	1.5	47	333	866	14	10	5.3	2.6	1.3	0.06	0.00	0.00
7	1.9	30	2,430	123	31	14	5.6	2.6	1.0	0.05	0.00	0.00
8	3.4	19	529	63	66	13	5.3	2.4	0.85	0.04	0.00	0.00
9	3.2	14	108	47	55	11	5.0	2.4	0.92	0.04	0.00	0.00
10	2.5	12	61	141	36	10	4.7	2.2	0.82	0.03	0.00	0.00
11	2.2	10	42	172	30	7.7	7.3	2.1	21	0.02	0.00	0.00
12	3.2	8.8	33	723	65	7.3	139	2.4	21	0.02	0.00	0.00
13	15	7.7	25	4,370	2,260	6.7	55	3.2	32	0.02	0.05	0.00
14	8.5	7.0	18	331	1,060	6.1	25	3.2	58	0.02	0.02	0.00
15	5.4	6.6	14	e67	143	5.6	14	2.2	29	0.01	0.02	0.01
16	3.9	6.5	13	e34	64	5.5	11	1.9	11	0.01	0.01	0.01
17	3.1	6.3	12	e25	41	5.2	8.8	1.7	5.3	0.01	0.01	0.00
18	174	6.8	11	e21	30	5.0	7.4	1.5	2.8	0.01	0.01	0.00
19	166	54	10	e18	25	5.0	6.1	1.4	1.8	0.00	0.00	0.01
20	44	55	8.7	e17	24	4.7	6.0	0.96	1.3	0.00	0.01	0.00
21	22	28	8.3	e16	23	4.8	6.2	1.2	0.98	0.00	0.00	0.00
22	12	18	7.6	e16	20	23	67	1.3	0.72	0.00	0.00	0.00
23	7.1	13	6.5	e15	18	76	37	1.2	0.61	0.00	0.00	0.00
24	5.0	1,250	5.6	e15	16	38	16	1.1	0.50	0.00	0.00	0.00
25	4.5	786	5.3	e14	15	26	11	1.1	0.38	0.00	0.01	0.00
26	74	869	5.6	e14	14	20	9.3	1.5	0.31	0.00	0.03	0.00
27	274	1,490	5.5	e14	13	16	6.9	1.2	0.26	0.00	0.02	0.00
28	52	434	5.6	13	15	13	5.4	1.0	0.20	0.00	0.01	0.00
29	27	96	6.7	13	---	12	5.0	0.90	0.14	0.00	0.01	0.00
30	63	73	7.1	13	---	10	4.5	0.94	0.13	0.00	0.01	0.00
31	23	---	8.2	14	---	8.1	---	0.92	---	0.00	0.01	---
MEAN	32.6	365	133	477	148	13.7	16.8	1.97	6.61	0.02	0.01	0.00
MAX	274	3,780	2,430	4,490	2,260	76	139	3.8	58	0.10	0.05	0.01
MIN	1.5	6.3	5.3	9.4	13	4.7	4.5	0.90	0.13	0.00	0.00	0.00
IN.	0.36	3.92	1.47	5.29	1.48	0.15	0.18	0.02	0.07	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2005, BY WATER YEAR (WY)

MEAN	13.8	85.2	69.7	67.5	112	83.5	106	131	69.3	73.1	31.6	42.2
MAX	95.9	652	442	477	441	340	541	532	300	482	174	748
(WY)	(1987)	(1986)	(1983)	(2005)	(1997)	(1984)	(1994)	(2002)	(1998)	(1981)	(2004)	(1993)
MIN	0.00	0.00	0.05	0.00	1.67	0.41	2.15	1.27	0.03	0.02	0.00	0.00
(WY)	(1989)	(2000)	(1980)	(1980)	(1981)	(1981)	(2000)	(1988)	(1988)	(2005)	(1994)	(1999)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

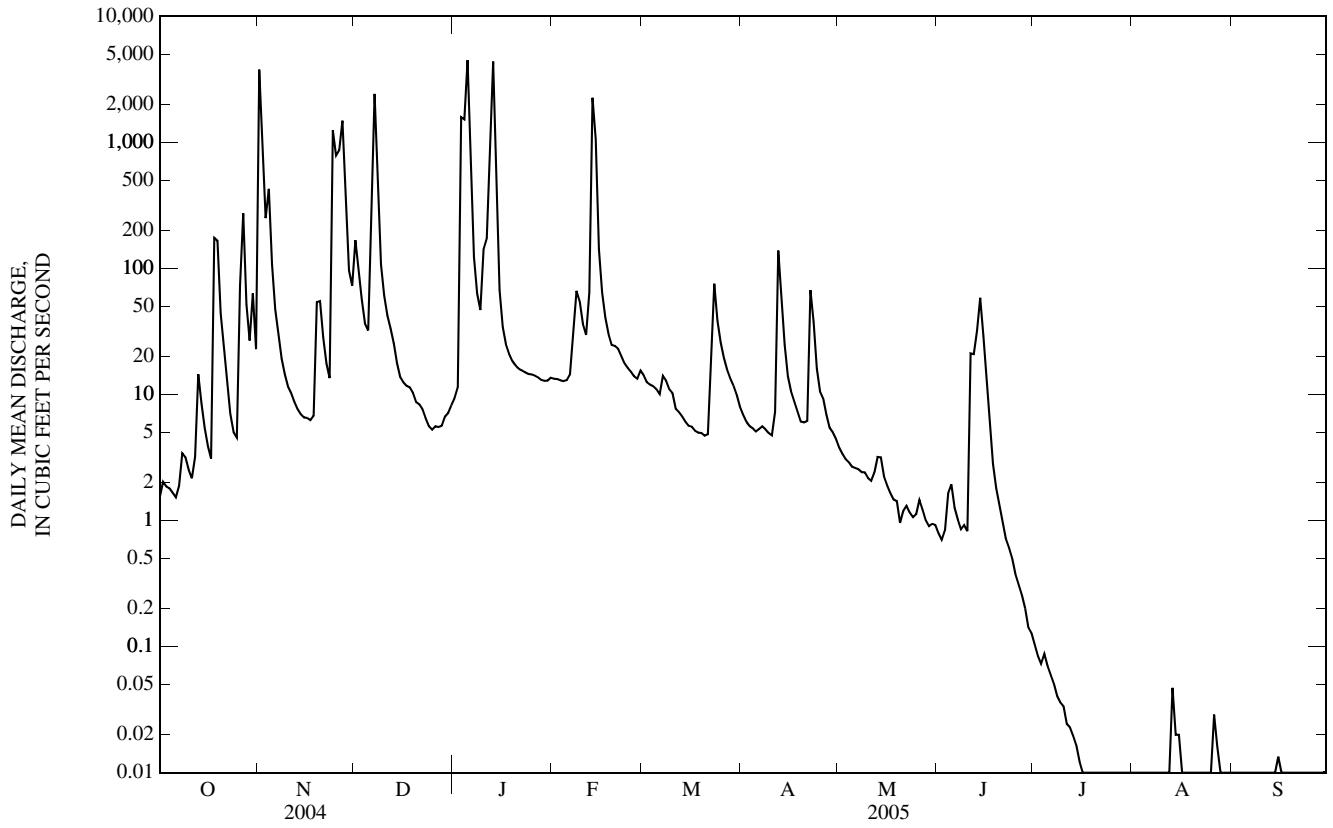
FOR 2005 WATER YEAR

WATER YEARS 1980 - 2005

ANNUAL MEAN	97.1	99.2	73.5
HIGHEST ANNUAL MEAN			188
LOWEST ANNUAL MEAN			15.1
HIGHEST DAILY MEAN	3,780	Nov 1	4,490
LOWEST DAILY MEAN	0.12	Aug 19	0.00
ANNUAL SEVEN-DAY MINIMUM	0.17	Jul 23	0.00
MAXIMUM PEAK FLOW	---		6,290
MAXIMUM PEAK STAGE	---		17.68
INSTANTANEOUS LOW FLOW	---		0.00
ANNUAL RUNOFF (INCHES)	12.71		12.95
10 PERCENT EXCEEDS	118		73
50 PERCENT EXCEEDS	8.4		5.6
90 PERCENT EXCEEDS	0.39		0.00

e Estimated

05507600 LICK CREEK AT PERRY, MO—Continued



SALT RIVER BASIN

05507700 MARK TWAIN LAKE NEAR CENTER, MO

LOCATION.--Lat 39°31'29", long 91°38'39", sec.26, T.55 N., R.7 W., Ralls County, Hydrologic Unit 07110007, inside dam structure at mile 63.0 on Salt River.

DRAINAGE AREA.--2,318 mi².

PERIOD OF RECORD.--1984 to current year. 1984 to Sept. 30, 1991, available in files at the U.S. Army Corps of Engineers.

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

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

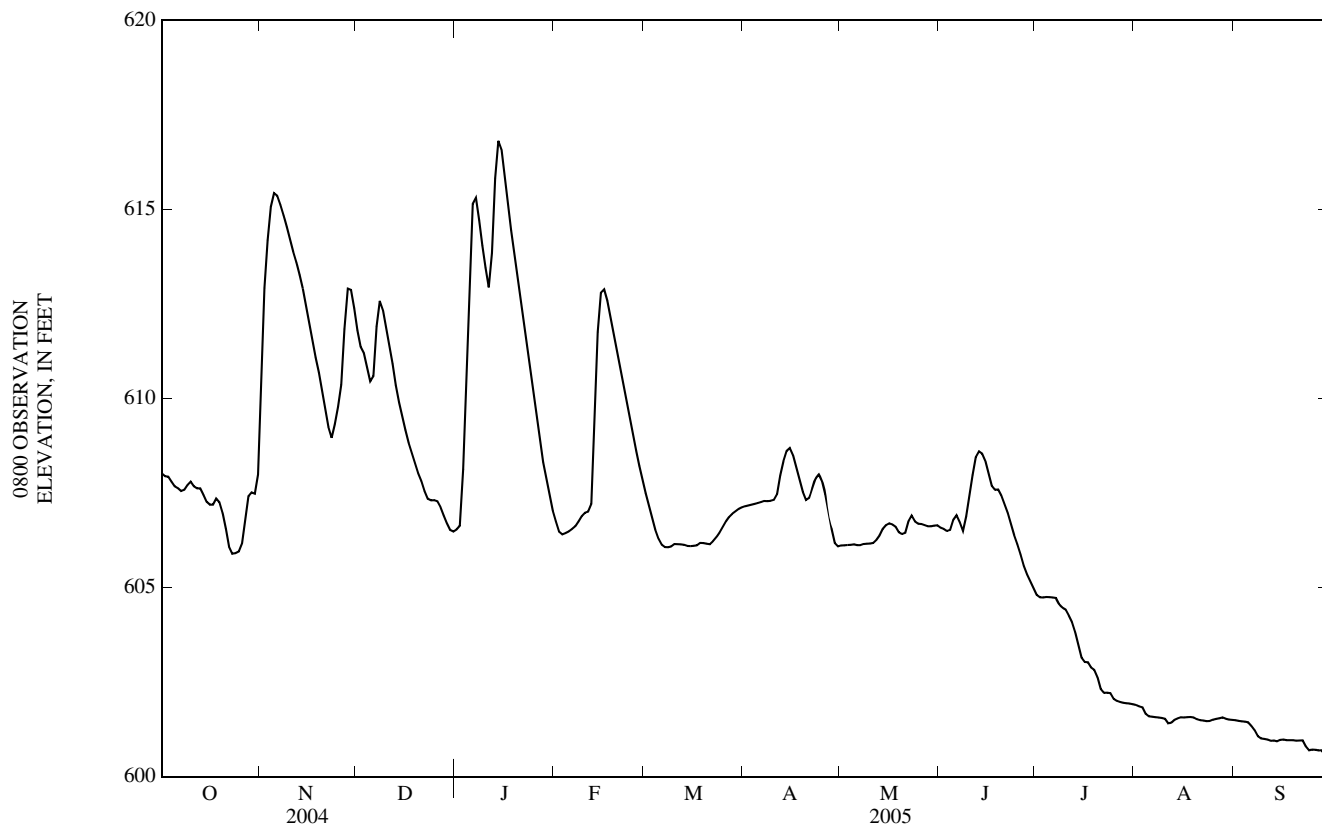
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,380,000 ac-ft, Sept. 27, 1993, elevation, 636.77 ft; minimum, 386,000 ac-ft, Oct. 10, 1984, elevation, 596.60 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 785,000 ac-ft, Jan. 14, 15, elevation, 617.03 ft, Jan. 15; minimum, 447,000 ac-ft, Sept. 29, 30, elevation, 600.42 ft, Sept. 29.

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	608.13	608.24	612.21	606.49	606.91	607.72	607.13	606.10	606.65	604.92	601.91	601.50
2	607.96	611.69	611.60	606.56	606.67	607.38	607.16	606.12	606.55	604.75	601.89	601.49
3	607.94	613.54	611.26	606.67	606.38	607.06	607.18	606.12	606.55	604.74	601.84	601.47
4	607.93	614.51	611.18	608.86	606.42	606.75	607.20	606.13	606.47	604.74	601.83	601.46
5	607.74	615.35	610.66	611.31	606.45	606.42	607.22	606.13	606.55	604.76	601.58	601.45
6	607.65	615.47	610.35	614.29	606.50	606.23	607.24	606.15	606.92	604.74	601.60	601.43
7	607.62	615.31	610.72	615.57	606.57	606.09	607.27	606.11	606.91	604.74	601.58	601.30
8	607.52	615.03	612.50	615.17	606.65	606.06	607.30	606.13	606.64	604.72	601.57	601.19
9	607.62	614.75	612.62	614.49	606.80	606.07	607.28	606.16	606.43	604.48	601.56	601.01
10	607.76	614.43	612.19	613.82	606.93	606.10	607.30	606.16	607.11	604.47	601.55	601.01
11	607.82	614.09	611.71	613.27	607.00	606.18	607.33	606.17	607.55	604.40	601.52	600.99
12	607.61	613.78	611.25	612.77	607.01	606.13	607.54	606.19	608.19	604.20	601.36	600.98
13	607.63	613.51	610.75	614.39	607.31	606.15	608.19	606.30	608.58	604.04	601.46	600.93
14	607.62	613.15	610.15	616.54	610.40	606.12	608.42	606.42	608.61	603.72	601.52	600.97
15	607.37	612.78	609.78	616.95	612.44	606.09	608.71	606.62	608.51	603.36	601.55	600.92
16	607.22	612.32	609.43	616.40	612.98	606.10	608.68	606.67	608.27	603.04	601.58	601.00
17	607.18	611.88	609.04	615.70	612.84	606.11	608.41	606.71	607.91	603.03	601.56	600.97
18	607.20	611.36	608.73	614.94	612.46	606.12	608.09	606.65	607.58	603.02	601.58	600.96
19	607.43	610.95	608.47	614.19	612.06	606.21	607.77	606.59	607.59	602.82	601.58	600.97
20	607.17	610.57	608.20	613.60	611.66	606.16	607.42	606.40	607.60	602.82	601.56	600.96
21	606.87	610.07	607.94	612.94	611.25	606.16	607.27	606.42	607.35	602.53	601.50	600.95
22	606.40	609.58	607.76	612.34	610.83	606.14	607.43	606.46	607.13	602.21	601.49	600.96
23	605.92	609.08	607.45	611.63	610.38	606.27	607.74	606.90	606.90	602.22	601.48	600.96
24	605.89	608.90	607.30	611.05	609.93	606.36	607.95	606.91	606.58	602.22	601.46	600.72
25	605.92	609.53	607.31	610.49	609.46	606.50	608.01	606.67	606.29	602.20	601.48	600.69
26	605.97	609.90	607.31	609.88	608.96	606.65	607.72	606.70	606.07	601.99	601.52	600.73
27	606.26	610.59	607.27	609.26	608.46	606.80	607.34	606.67	605.78	602.01	601.53	600.70
28	607.08	612.46	607.05	608.68	608.10	606.90	606.87	606.64	605.48	601.96	601.55	600.69
29	607.58	613.13	606.83	608.13	---	606.98	606.39	606.61	605.28	601.95	601.57	600.70
30	607.48	612.74	606.63	607.74	---	607.03	606.07	606.63	605.11	601.94	601.51	600.44
31	607.48	---	606.47	607.30	---	607.10	---	606.64	---	601.93	601.51	---
MEAN	607.26	612.29	609.42	611.98	608.92	606.46	607.52	606.43	606.97	603.38	601.57	601.02
MAX	608.13	615.47	612.62	616.95	612.98	607.72	608.71	606.91	608.61	604.92	601.91	601.50
MIN	605.89	608.24	606.47	606.49	606.38	606.06	606.07	606.10	605.11	601.93	601.36	600.44

05507700 MARK TWAIN LAKE NEAR CENTER, 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	586,000	588,000	671,000	554,000	562,000	577,000	566,000	547,000	557,000	525,000	472,000	465,000
2	582,000	659,000	658,000	555,000	557,000	571,000	567,000	547,000	555,000	522,000	472,000	465,000
3	582,000	703,000	650,000	557,000	552,000	565,000	567,000	547,000	555,000	522,000	471,000	465,000
4	582,000	726,000	649,000	600,000	552,000	559,000	568,000	547,000	553,000	522,000	471,000	464,000
5	578,000	745,000	637,000	651,000	553,000	552,000	568,000	547,000	555,000	522,000	466,000	464,000
6	576,000	748,000	631,000	720,000	554,000	549,000	568,000	548,000	562,000	522,000	467,000	464,000
7	575,000	744,000	639,000	751,000	555,000	547,000	569,000	547,000	562,000	522,000	466,000	462,000
8	573,000	738,000	678,000	741,000	557,000	546,000	569,000	547,000	557,000	521,000	466,000	460,000
9	575,000	731,000	681,000	725,000	560,000	546,000	569,000	548,000	553,000	517,000	466,000	457,000
10	578,000	724,000	671,000	709,000	563,000	547,000	569,000	548,000	566,000	517,000	466,000	457,000
11	579,000	716,000	660,000	696,000	564,000	548,000	570,000	548,000	574,000	515,000	465,000	456,000
12	575,000	708,000	650,000	685,000	564,000	547,000	574,000	548,000	587,000	512,000	463,000	456,000
13	576,000	702,000	639,000	723,000	570,000	548,000	587,000	550,000	594,000	509,000	464,000	455,000
14	575,000	694,000	627,000	773,000	632,000	547,000	591,000	552,000	595,000	503,000	465,000	456,000
15	571,000	685,000	619,000	783,000	677,000	547,000	597,000	556,000	593,000	497,000	466,000	455,000
16	568,000	674,000	612,000	770,000	690,000	547,000	597,000	557,000	588,000	492,000	466,000	457,000
17	567,000	664,000	604,000	754,000	686,000	547,000	591,000	558,000	581,000	491,000	466,000	456,000
18	568,000	652,000	598,000	736,000	677,000	547,000	585,000	557,000	575,000	491,000	466,000	456,000
19	572,000	643,000	592,000	718,000	668,000	549,000	578,000	556,000	575,000	488,000	466,000	456,000
20	567,000	636,000	587,000	704,000	659,000	548,000	572,000	552,000	575,000	488,000	466,000	456,000
21	561,000	625,000	582,000	689,000	650,000	548,000	569,000	552,000	570,000	483,000	465,000	456,000
22	552,000	615,000	578,000	674,000	641,000	547,000	572,000	553,000	566,000	477,000	465,000	456,000
23	543,000	605,000	572,000	658,000	632,000	550,000	578,000	562,000	562,000	477,000	465,000	456,000
24	543,000	601,000	569,000	646,000	622,000	551,000	582,000	562,000	556,000	477,000	464,000	452,000
25	543,000	614,000	570,000	634,000	612,000	554,000	583,000	557,000	550,000	477,000	465,000	451,000
26	544,000	622,000	570,000	621,000	603,000	557,000	577,000	558,000	546,000	474,000	465,000	452,000
27	550,000	636,000	569,000	608,000	592,000	560,000	570,000	557,000	541,000	474,000	466,000	451,000
28	565,000	677,000	565,000	597,000	585,000	562,000	561,000	557,000	535,000	473,000	466,000	451,000
29	575,000	693,000	561,000	586,000	---	564,000	552,000	556,000	532,000	473,000	466,000	451,000
30	573,000	684,000	557,000	578,000	---	565,000	546,000	557,000	528,000	473,000	465,000	447,000
31	573,000	---	553,000	569,000	---	566,000	---	557,000	---	473,000	465,000	---
MEAN	569,000	675,000	613,000	670,000	603,000	553,000	574,000	553,000	563,000	498,000	466,000	457,000
MAX	586,000	748,000	681,000	783,000	690,000	577,000	597,000	562,000	595,000	525,000	472,000	465,000
MIN	543,000	588,000	553,000	554,000	552,000	546,000	546,000	547,000	528,000	473,000	463,000	447,000

05507800 SALT RIVER NEAR CENTER, MO

LOCATION.--Lat 39°34'27", long 91°34'18", NW ¼ SE ¼ SE ¼ sec.4, T.55 N., R.6 W., Ralls County, Hydrologic Unit 07110007, on left bank at left downstream end of bridge on Highway A, 0.5 mi downstream from Clarence Cannon Dam, 5.0 mi northwest of Center, and at mile 53.1.

DRAINAGE AREA.--2,350 mi², approximately.

PERIOD OF RECORD.--October 1979 to current year. Prior to October 1979, gage height records only by the U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 500.00 ft above National Geodetic Vertical Datum of 1929. Prior to October 1979 nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. U.S. Army Corps of Engineers satellite telemeter at station. Flow regulated by Clarence Cannon Dam, 0.5 mi upstream.

EXTREME OUTSIDE PERIOD OF RECORD.--Maximum gage height, 33.00 ft, Apr. 22, 1973, by U.S. Army Corps of Engineers.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,340	340	8,090	57	3,200	4,060	66	55	374	1,530	67	73
2	665	65	7,280	56	3,130	3,210	66	55	70	144	66	73
3	57	62	2,580	259	322	3,440	66	55	748	69	67	72
4	1,340	60	4,950	4,820	68	3,360	63	55	75	69	1,340	71
5	1,180	2,820	6,300	7,370	67	2,100	62	55	629	67	588	70
6	162	4,310	5,720	3,490	67	2,180	63	57	1,890	67	69	72
7	1,440	3,660	4,710	5,420	67	1,060	65	59	2,820	66	69	1,100
8	1,220	4,240	7,950	9,300	64	59	62	59	3,750	1,430	69	1,210
9	108	3,890	7,760	9,430	62	58	62	57	3,920	169	68	728
10	58	4,110	7,850	9,610	62	56	60	57	3,760	547	67	87
11	1,290	4,220	6,150	9,600	60	56	60	57	1,260	1,490	320	86
12	1,740	3,610	6,080	9,810	63	57	78	56	871	2,080	80	88
13	778	3,810	6,180	11,000	549	103	3,770	56	2,700	2,580	77	90
14	2,410	3,840	4,620	8,800	241	248	4,030	56	3,560	2,740	76	58
15	3,220	5,370	4,130	8,940	3,870	432	1,860	56	3,930	2,940	75	73
16	715	5,160	4,190	8,990	5,270	58	2,930	54	3,750	545	74	70
17	432	5,130	3,520	9,030	5,280	56	3,280	504	4,190	67	73	68
18	821	5,310	3,470	9,060	5,280	55	4,100	797	983	1,030	71	142
19	3,080	5,130	2,440	8,040	5,280	56	2,820	1,510	66	129	73	46
20	4,590	5,260	2,630	8,040	5,270	57	2,160	274	2,000	2,240	75	40
21	4,580	5,630	2,380	7,590	5,260	57	1,120	62	2,400	2,340	74	36
22	5,810	5,030	2,700	6,960	5,200	61	56	62	1,930	193	75	33
23	1,460	2,900	2,420	6,870	5,270	319	56	1,930	2,450	69	74	1,040
24	1,030	3,790	60	6,980	5,290	65	55	2,690	3,000	68	74	128
25	1,420	3,150	55	5,740	5,310	65	3,440	1,110	2,270	1,130	73	69
26	52	3,750	55	6,590	5,360	65	3,230	186	2,570	361	72	70
27	16	4,740	1,840	6,070	5,360	65	4,660	61	2,630	68	71	67
28	16	4,320	2,600	6,740	4,320	63	4,700	63	2,260	70	71	64
29	2,490	5,380	2,500	4,270	---	62	4,240	64	1,350	69	72	921
30	1,170	8,340	1,580	4,500	---	60	615	63	1,580	68	75	554
31	60	---	365	4,160	---	63	---	62	---	68	74	---
MEAN	1,476	3,914	3,973	6,697	2,844	700	1,596	333	2,126	790	138	243
MAX	5,810	8,340	8,090	11,000	5,360	4,060	4,700	2,690	4,190	2,940	1,340	1,210
MIN	16	60	55	56	60	55	55	54	66	66	66	33
IN.	0.72	1.86	1.95	3.29	1.26	0.34	0.76	0.16	1.01	0.39	0.07	0.12

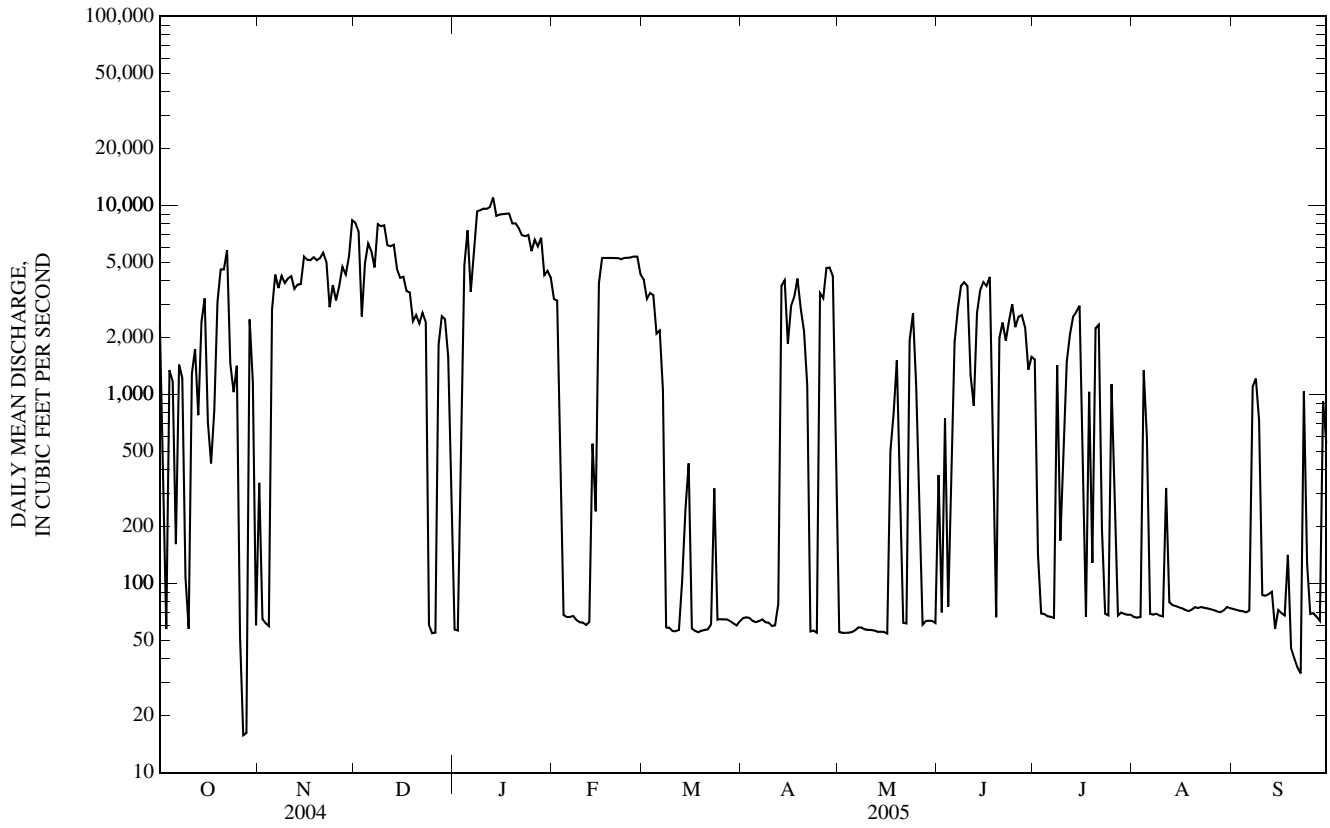
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2005, BY WATER YEAR (WY)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	1,039	1,377	1,783	1,216	1,696	2,568	2,165	2,487	2,537	2,744	1,407	1,111														
MAX	9,085	6,038	10,360	6,697	8,098	10,530	10,310	7,784	10,560	10,810	7,895	7,902														
(WY)	(1994)	(1987)	(1983)	(2005)	(1982)	(1985)	(1983)	(2002)	(1995)	(1981)	(1993)	(1993)														
MIN	4.62	14.8	31.4	30.5	81.6	87.0	56.9	67.5	126	75.2	13.9	25.3														
(WY)	(1980)	(1981)	(1980)	(1980)	(1989)	(1989)	(2003)	(1989)	(1988)	(1983)	(1980)	(1983)														

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1980 - 2005
ANNUAL MEAN	2,028	2,064	1,846
HIGHEST ANNUAL MEAN			3,462
LOWEST ANNUAL MEAN			283
HIGHEST DAILY MEAN	9,320	Mar 31	11,000
LOWEST DAILY MEAN	16	Oct 27,28	16
ANNUAL SEVEN-DAY MINIMUM	52	Mar 22	56
MAXIMUM PEAK FLOW	---		12,600
MAXIMUM PEAK STAGE	---		14.99
INSTANTANEOUS LOW FLOW	---		15
ANNUAL RUNOFF (INCHES)	11.75		11.93
10 PERCENT EXCEEDS	5,170		5,400
50 PERCENT EXCEEDS	1,340		778
90 PERCENT EXCEEDS	55		57

05507800 SALT RIVER NEAR CENTER, MO—Continued



05508000 SALT RIVER NEAR NEW LONDON, MO

LOCATION.--Lat 39°36'44", long 91°24'26", in NE ¼ NW ¼ sec.36, T.56 N., R.5 W., Ralls County, Hydrologic Unit 07110007, on left bank near downstream end of bridge on north bound side of dual U.S. Highway 61, 9.9 mi downstream from Clarence Cannon Dam, 2.0 mi north of New London, 8.0 mi upstream from Spencer Creek, and at mile 35.5.

DRAINAGE AREA.--2,480 mi², approximately.

PERIOD OF RECORD.--February 1922 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 477.03 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 7, 1931, nonrecording gage 400 ft upstream at datum 0.03 ft higher; Apr. 7, 1931 to Jan. 17, 1935, nonrecording gage at site 180 ft upstream at datum 0.04 ft lower; Jan. 17, 1935 to April 1985, water-stage recorder 400 ft upstream same datum.

REMARKS.--No estimated daily discharges. Records good. U.S. Army Corps of Engineers satellite telemeter at station. Flow mostly regulated by Clarence Cannon Dam, 9.9 mi upstream, since September 1979. Five percent of the drainage area, 130 mi², is natural drainage not regulated.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 107,000 ft³/s, Apr. 22, 1973; gage height, 31.8 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 14, 1858, reached a stage of 27.6 ft, present site and datum, based on comparison of June 1928 flood crest at stone marker, 1.0 mi downstream of gage.

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	2,250	2,010	8,350	145	3,210	4,160	80	134	77	1,740	74	77
2	1,540	565	8,250	128	3,040	3,040	78	95	371	1,080	72	75
3	151	236	3,780	1,090	1,600	3,350	77	89	123	108	71	75
4	89	343	3,180	3,640	155	3,360	78	86	734	92	80	74
5	1,640	1,110	6,570	10,900	125	2,690	77	83	104	87	1,700	74
6	870	4,120	6,040	4,900	118	2,080	79	81	1,220	82	116	72
7	378	3,820	6,540	4,430	142	1,730	80	82	2,380	79	79	187
8	1,780	4,220	7,840	9,620	144	303	77	83	3,350	138	75	963
9	491	3,700	8,040	9,790	132	105	76	81	3,920	1,390	73	1,530
10	90	4,180	8,140	10,100	115	97	76	78	3,450	105	73	185
11	147	4,260	6,410	10,100	108	92	78	77	3,060	818	69	78
12	2,280	3,610	6,170	10,500	116	90	347	82	169	1,890	301	71
13	752	3,570	6,220	15,200	1,900	86	2,000	79	1,630	1,940	111	76
14	1,720	3,780	5,180	10,000	1,490	238	4,950	75	3,340	2,630	95	83
15	3,010	5,040	4,360	9,390	2,590	433	1,600	70	3,870	2,930	84	57
16	1,750	5,170	4,200	9,390	5,230	177	2,850	70	3,620	2,040	81	73
17	168	4,960	3,240	9,420	5,210	87	3,280	69	4,270	122	78	67
18	734	5,640	3,670	9,430	5,210	84	3,660	529	2,550	103	77	66
19	1,880	4,960	2,400	8,640	5,200	81	2,620	978	163	1,050	78	142
20	4,320	5,010	2,640	8,190	5,200	79	2,960	1,470	655	551	77	52
21	3,980	5,440	2,640	7,880	5,180	79	2,090	130	2,180	2,320	79	36
22	5,820	4,970	2,270	7,400	5,100	90	165	89	1,770	1,710	78	32
23	2,670	3,330	2,910	7,250	5,190	220	108	583	2,210	110	76	39
24	947	3,870	623	6,710	5,190	249	96	2,260	3,020	86	76	982
25	1,550	3,230	112	5,810	5,220	113	1,770	2,290	2,330	97	83	98
26	726	3,770	102	6,800	5,260	103	3,110	624	2,360	1,290	81	80
27	159	6,140	910	5,990	5,290	100	4,660	103	2,430	128	77	75
28	81	4,790	2,720	6,680	4,220	95	4,430	83	2,440	79	75	72
29	561	4,650	2,320	5,040	---	94	4,490	83	1,590	79	74	66
30	2,960	8,520	1,420	4,430	---	90	2,020	82	1,370	78	74	1,290
31	143	---	1,340	3,990	---	85	---	80	---	75	77	---
MEAN	1,472	3,967	4,148	7,193	2,917	764	1,602	348	2,025	807	139	228
MAX	5,820	8,520	8,350	15,200	5,290	4,160	4,950	2,290	4,270	2,930	1,700	1,530
MIN	81	236	102	128	108	79	76	69	77	75	69	32
IN.	0.68	1.79	1.93	3.34	1.23	0.36	0.72	0.16	0.91	0.38	0.06	0.10

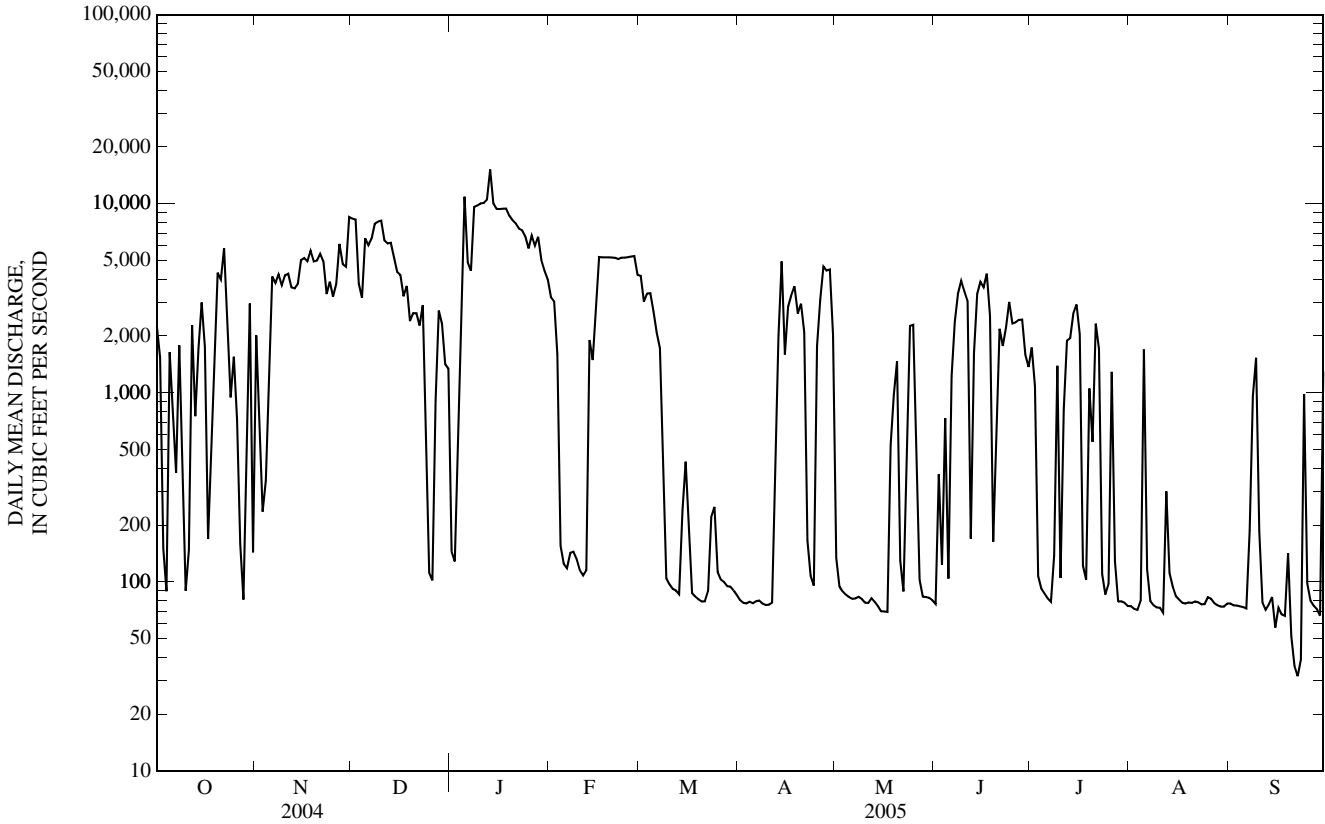
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2005^a, BY WATER YEAR (WY)

MEAN	1,067	1,488	1,901	1,316	1,833	2,744	2,317	2,665	2,616	2,842	1,487	1,161
MAX	9,165	6,406	11,100	7,193	8,787	10,810	10,660	9,003	10,950	11,900	7,961	8,300
(WY)	(1994)	(1986)	(1983)	(2005)	(1982)	(1985)	(1983)	(2002)	(1995)	(1981)	(1993)	(1993)
MIN	16.9	18.4	48.6	37.1	84.9	90.2	80.8	93.4	128	88.4	42.8	28.5
(WY)	(1980)	(1981)	(1980)	(1981)	(1989)	(1989)	(2003)	(1989)	(1988)	(1983)	(1983)	(1983)

05508000 SALT RIVER NEAR NEW LONDON, MO—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1980 - 2005 ^a	
ANNUAL MEAN	2,107		2,130		1,955	
HIGHEST ANNUAL MEAN					3,577	1993
LOWEST ANNUAL MEAN					307	1989
HIGHEST DAILY MEAN	10,000	Mar 31	15,200	Jan 13	62,100	Jul 30, 1981
LOWEST DAILY MEAN	38	Jun 14	32	Sep 22	9.5	Nov 21, 1980
ANNUAL SEVEN-DAY MINIMUM	58	Jun 2	62	Sep 17	9.6	Nov 20, 1980
MAXIMUM PEAK FLOW	---		17,700	Jan 13	74,200	Jul 29, 1981
MAXIMUM PEAK STAGE	---		16.23	Jan 13	31.09	Jul 29, 1981
INSTANTANEOUS LOW FLOW	---		26	Sep 23	9.5	Nov 21, 1980
ANNUAL RUNOFF (INCHES)	11.57		11.66		10.71	
10 PERCENT EXCEEDS	5,210		5,710		5,580	
50 PERCENT EXCEEDS	1,430		947		506	
90 PERCENT EXCEEDS	84		76		60	

^a Post-regulation period.



05508805 SPENCER CREEK BELOW PLUM CREEK NEAR FRANKFORD, MO

LOCATION.--Lat 39°31'14", long 91°20'34", in NW ¼ NW ¼ NW ¼ sec.27, T.55 N., R.4 W., Ralls County, Hydrologic Unit 07110007, on left bank 25 ft downstream from bridge on dual U.S. Highway 61, 0.75 mi downstream from Plum Creek, 2.5 mi northwest of Frankford, and at mile 4.5.

DRAINAGE AREA.--206 mi².

PERIOD OF RECORD.--Oct. 1, 1979 to current year. Mar. 27, 1930 to September 1978, fragmentary record.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 485.00 ft above National Geodetic Vertical Datum of 1929. Mar. 24, 1930, to Sept. 30, 1936, nonrecording gage at site 0.75 mi upstream at datum 3.63 ft higher; Oct. 7, 1961, to July 15, 1974, fragmentary record, at present site, datum unknown; July 26, 1974, to Apr. 15, 1975, from nonrecording gage present site and datum.

REMARKS.--Records fair except for estimated daily discharges and discharges below 1 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	5.5	4,610	436	37	55	57	31	25	4.1	0.96	0.45	1.0
2	6.8	1,500	277	39	54	50	29	22	3.5	0.81	0.45	0.93
3	6.6	304	181	2,250	51	50	28	21	3.3	0.69	0.45	0.78
4	6.2	688	126	1,790	48	48	27	20	3.3	0.74	0.45	0.62
5	5.8	266	106	6,440	48	45	26	19	3.4	0.77	0.49	0.52
6	5.6	136	580	1,510	49	42	26	17	3.1	0.68	0.54	0.49
7	5.8	91	3,040	477	82	51	27	16	2.9	0.58	0.58	0.44
8	8.4	67	903	317	208	48	26	15	2.9	0.55	0.57	0.39
9	8.2	54	311	245	173	43	25	15	2.9	0.52	0.60	0.37
10	7.1	46	207	401	107	40	24	13	2.8	0.45	0.60	0.28
11	6.3	40	158	409	83	39	24	12	2.9	0.40	0.65	0.21
12	7.1	34	135	946	155	37	314	13	9.0	0.56	0.85	0.21
13	6.9	31	108	6,500	3,140	35	239	14	17	0.58	1.3	0.50
14	7.4	30	84	917	1,930	34	108	12	16	0.59	1.2	0.88
15	7.5	28	69	363	505	32	67	10	34	0.46	1.4	0.60
16	6.7	27	65	e224	275	32	52	8.8	22	0.39	1.5	0.35
17	6.1	27	63	e154	185	30	44	8.4	13	0.37	1.4	0.22
18	7.7	27	60	e115	137	28	39	7.8	8.4	0.37	1.1	0.34
19	45	67	52	e94	111	27	34	7.3	5.4	0.42	1.4	0.45
20	41	96	48	e85	107	26	32	6.3	3.5	0.46	1.4	0.31
21	22	54	43	e81	95	25	32	6.0	2.9	0.51	1.5	0.21
22	14	40	39	e78	81	e40	38	6.1	2.4	0.56	1.4	0.15
23	12	34	33	e76	71	e150	69	6.2	2.2	0.54	1.3	0.16
24	9.5	1,050	32	72	65	e100	55	5.4	1.8	0.47	1.2	0.39
25	7.8	1,020	30	67	61	e70	42	4.8	1.5	0.52	1.3	0.42
26	9.6	1,220	29	70	56	e60	37	4.1	1.3	0.64	1.5	0.43
27	293	2,520	28	62	53	53	31	3.6	1.2	0.62	1.4	0.34
28	102	864	28	56	61	47	27	3.3	1.1	0.48	1.3	0.30
29	44	298	30	56	---	44	26	3.3	1.1	0.46	1.3	0.31
30	42	246	32	55	---	40	28	4.6	1.0	0.46	1.3	0.22
31	48	---	35	57	---	35	---	4.9	---	0.45	1.1	---
MEAN	26.2	517	238	776	287	47.0	53.6	10.8	6.00	0.55	1.03	0.43
MAX	293	4,610	3,040	6,500	3,140	150	314	25	34	0.96	1.5	1.0
MIN	5.5	27	28	37	48	25	24	3.3	1.0	0.37	0.45	0.15
IN.	0.15	2.80	1.33	4.34	1.45	0.26	0.29	0.06	0.03	0.00	0.01	0.00

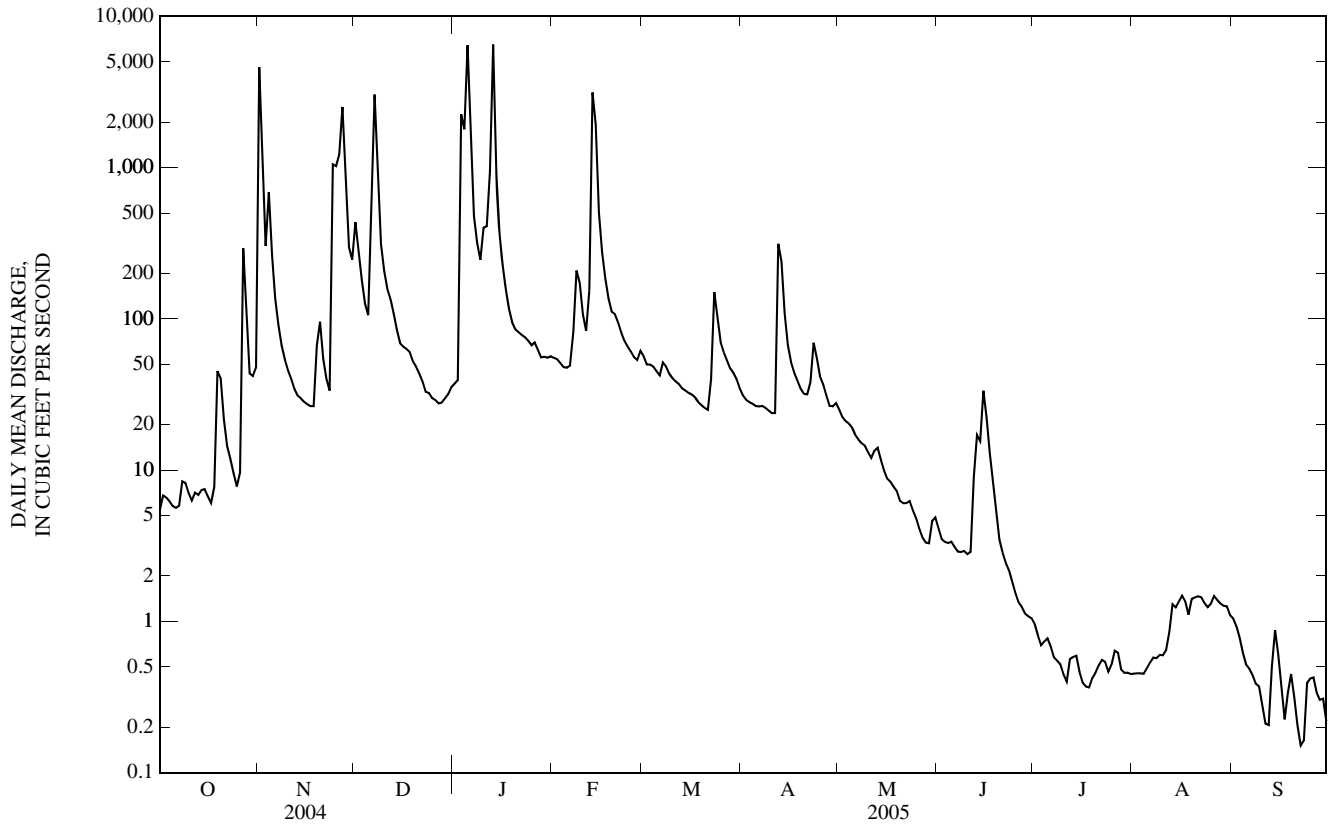
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2005, BY WATER YEAR (WY)

MEAN	40.8	178	161	139	213	193	235	284	130	146	67.9	80.2
MAX	376	1,310	985	776	766	738	919	1,028	451	1,788	326	1,402
(WY)	(1987)	(1986)	(1983)	(2005)	(1985)	(1984)	(1994)	(2002)	(1982)	(1981)	(2004)	(1993)
MIN	0.22	0.48	1.67	2.58	3.40	9.23	14.3	10.8	2.23	0.55	0.96	0.32
(WY)	(1989)	(1990)	(1990)	(1980)	(1980)	(1981)	(2000)	(2005)	(1988)	(2005)	(1994)	(1988)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1980 - 2005
ANNUAL MEAN	162	163	155
HIGHEST ANNUAL MEAN			355
LOWEST ANNUAL MEAN			33.1
HIGHEST DAILY MEAN	4,900	Aug 27	15,600
LOWEST DAILY MEAN	0.40	Aug 19	0.08
ANNUAL SEVEN-DAY MINIMUM	0.65	Aug 16	0.10
MAXIMUM PEAK FLOW	---		10,800
MAXIMUM PEAK STAGE	---		14.86
INSTANTANEOUS LOW FLOW	---		0.06
ANNUAL RUNOFF (INCHES)	10.68		10.73
10 PERCENT EXCEEDS	277		245
50 PERCENT EXCEEDS	34		26
90 PERCENT EXCEEDS	4.7		0.47
			1.1

e Estimated

05508805 SPENCER CREEK BELOW PLUM CREEK NEAR FRANKFORD, MO—Continued



05514500 CUIVRE RIVER NEAR TROY, MO

LOCATION.--Lat 39°00'32", long 90°58'39", in SE ¼ sec.14, T.49 N., R.1 W., Lincoln County, Hydrologic Unit 07110008, on downstream side of right end of downstream bridge on dual U.S. Highway 61, 1.2 mi downstream from confluence of North Fork and West Fork Cuivre Rivers, and 2.0 mi north of Troy.

DRAINAGE AREA.--903 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1922 to July 1972, May 1979 to current year.

REVISED RECORDS.--WSP 855: 1933(m), 1935(m), 1937(m). WSP 895: 1939. WSP 1005: 1942(m). WSP 1308: 1922-25(m).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 450.27 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1930, nonrecording gage at site 3 mi downstream at datum 4.31 ft lower; Oct. 1, 1930, to July 1939, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records fair 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.--The highest flood since 1888 was the flood of December 1895 which reached a gage height of 27.90 ft.

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

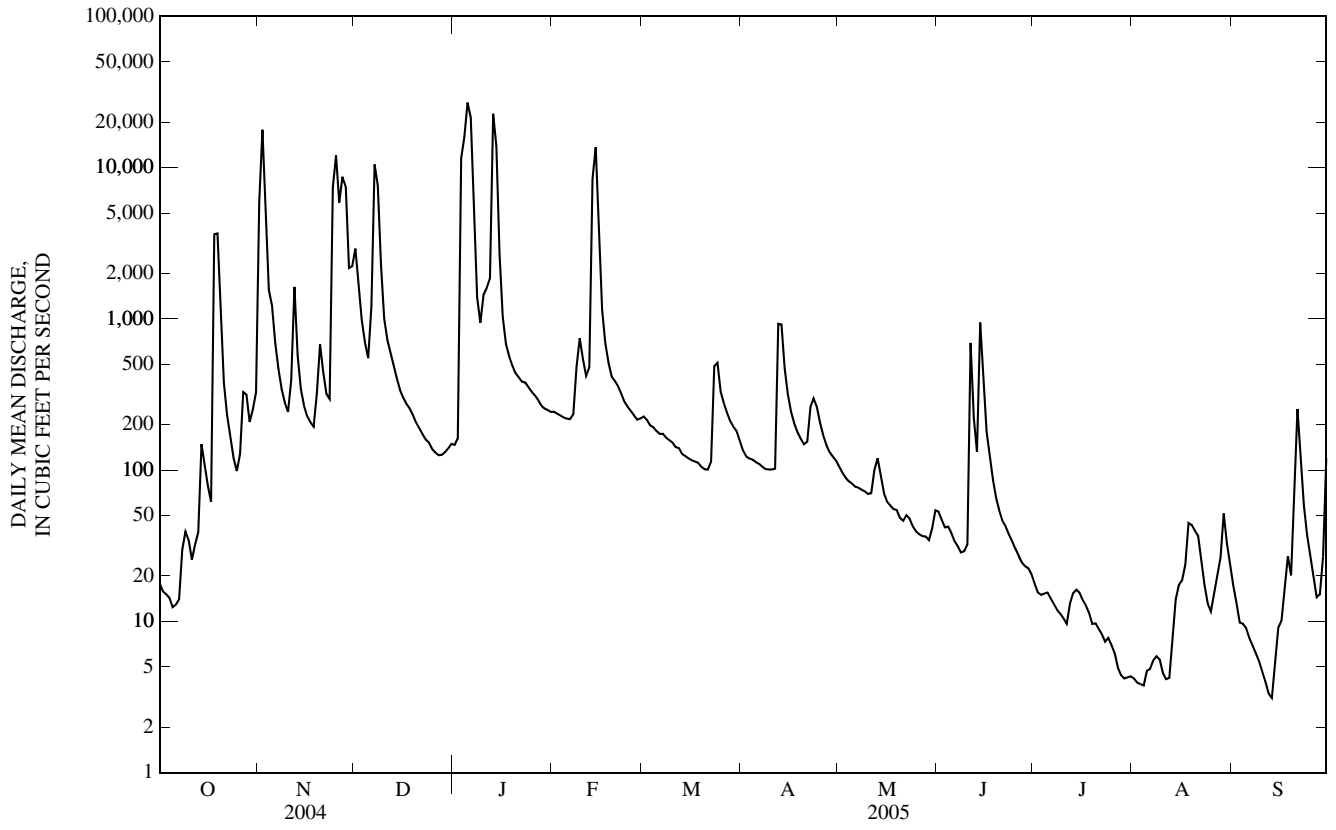
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	5,930	2,910	147	243	226	135	106	53	18	4.2	17
2	16	17,800	1,650	161	236	215	123	96	47	16	3.9	13
3	15	4,170	975	11,500	230	198	119	89	42	15	3.8	9.8
4	14	1,560	698	15,900	223	192	117	84	42	15	3.8	9.6
5	12	1,220	550	26,900	219	181	113	82	38	15	4.7	9.0
6	13	693	1,210	21,400	217	173	110	78	34	14	4.9	7.8
7	14	467	10,500	4,680	234	174	105	77	31	13	5.5	6.9
8	30	344	7,590	1,380	481	164	102	74	29	12	5.9	6.2
9	39	279	2,270	943	744	158	101	72	29	11	5.6	5.5
10	35	242	1,000	1,440	544	152	101	70	32	10	4.6	4.7
11	26	397	725	1,600	419	142	102	71	693	9.6	4.1	4.0
12	32	1,630	595	1,850	478	140	926	101	222	13	4.2	3.3
13	39	576	492	22,700	8,440	128	919	120	132	15	7.8	3.1
14	148	344	401	13,900	13,700	124	470	92	946	16	14	5.3
15	109	266	337	2,670	3,610	120	316	70	377	15	17	9.1
16	79	227	300	1,030	1,150	116	243	62	180	14	19	10
17	62	207	274	681	691	114	204	58	124	13	24	17
18	3,630	194	255	e567	513	112	179	55	86	11	45	27
19	3,670	322	231	e492	415	105	161	54	65	9.6	43	20
20	952	678	206	e438	388	101	148	48	54	9.7	40	90
21	378	444	188	e410	358	101	154	46	46	8.9	37	254
22	231	319	173	e385	320	114	261	50	42	8.2	25	115
23	165	295	159	e380	283	488	298	48	38	7.4	17	58
24	119	7,420	152	355	262	512	262	42	34	7.8	13	37
25	99	12,000	138	331	246	330	206	39	30	7.0	12	27
26	128	5,870	131	313	229	277	170	38	27	6.2	15	20
27	329	8,700	125	292	215	240	147	37	25	4.9	20	14
28	316	7,460	126	269	220	211	131	36	23	4.4	26	15
29	208	2,170	131	256	---	193	123	35	22	4.2	52	27
30	252	2,230	139	250	---	181	116	41	20	4.3	33	120
31	326	---	149	243	---	156	---	54	---	4.3	24	---
MEAN	371	2,815	1,122	4,318	1,261	188	222	65.3	119	10.7	17.4	32.2
MAX	3,670	17,800	10,500	26,900	13,700	512	926	120	946	18	52	254
MIN	12	194	125	147	215	101	101	35	20	4.2	3.8	3.1
IN.	0.47	3.48	1.43	5.51	1.45	0.24	0.27	0.08	0.15	0.01	0.02	0.04

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

MEAN	388	532	511	587	863	995	1,184	1,101	705	537	288	437
MAX	6,704	4,503	5,924	4,318	4,250	3,596	6,126	6,311	4,735	4,366	1,994	9,098
(WY)	(1942)	(1986)	(1983)	(2005)	(1962)	(1922)	(1994)	(1929)	(1970)	(1981)	(1923)	(1993)
MIN	0.10	1.30	1.11	1.63	1.80	2.51	25.8	17.1	11.0	0.44	0.23	0.24
(WY)	(1965)	(1954)	(1964)	(1954)	(1954)	(1954)	(1954)	(1934)	(1936)	(1934)	(1936)	(1964)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	858		876		676	
HIGHEST ANNUAL MEAN					2,186	
LOWEST ANNUAL MEAN					27.3	
HIGHEST DAILY MEAN	17,800	Mar 5	26,900	Jan 5	76,400	Oct 5, 1941
LOWEST DAILY MEAN	12	Oct 5	3.1	Sep 13	0.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	15	Oct 1	4.1	Jul 29	0.00	At Times
MAXIMUM PEAK FLOW	---		35,200	Jan 5	120,000	Oct 5, 1941
MAXIMUM PEAK STAGE	---		26.76	Jan 5	33.40	Oct 5, 1941
INSTANTANEOUS LOW FLOW	---		2.2	Sep 13	0.00	Several Years
ANNUAL RUNOFF (INCHES)	12.93		13.18		10.17	
10 PERCENT EXCEEDS	2,100		1,170		1,240	
50 PERCENT EXCEEDS	217		123		93	
90 PERCENT EXCEEDS	28		9.6		6.0	



MISSISSIPPI RIVER BASIN ABOVE MISSOURI RIVER

05514500 CUIVRE RIVER NEAR TROY, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1982 to current year.

REMARKS.--National Stream-Quality Accounting Network station October 1986 through September 1994. Ambient Water-Quality Monitoring Network station October 1994 to current year.

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

Date	Time	Sample type	Instantaneous dis-charge, cfs (00061)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unfltrd 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 02...	1245	Environmental	18,900	7.5	72	6.7	139	13.5	53	16.3	3.05	8.83	
02...	1246	Replicate	--	7.5	72	6.7	139	13.5	53	16.2	3.03	8.92	
JAN 05...	1400	Environmental	30,800	12.2	95	6.7	120	4.1	--	--	--	--	
MAR 09...	1340	Environmental	160	14.6	127	8.1	384	8.5	--	--	--	--	
MAY 03...	0900	Environmental	96	9.3	90	7.7	440	13.3	200	64.5	10.5	4.42	
JUL 26...	0935	Environmental	7.4	6.3	87	7.8	473	31.2	--	--	--	--	
SEP 07...	1400	Environmental	7.9	9.7	127	8.0	401	28.0	--	--	--	--	
Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicar-bonate, wat unfltrd, titr., field, mg/L (00450)	Carbon-ate, 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, 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 02...	2.40	50	52	63	<1	5.66	.2	4.2	100	190d	1.7	<.04	.57
02...	2.40	--	--	--	--	5.69	.2	4.2	97	292d	1.6	<.04	.57
JAN 05...	--	--	--	--	--	--	--	--	--	483d	1.7	.10	.89
MAR 09...	--	--	--	--	--	--	--	--	--	<10	.42	<.04	.39
MAY 03...	15.1	161	162	197	<1	17.6	.2	27.5	257	24	.69	<.04	.38
JUL 26...	--	--	--	--	--	--	--	--	--	13	.63	<.04	<.06
SEP 07...	--	--	--	--	--	--	--	--	--	<10	.48	<.04	<.06
Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, fltrd, mg/L (00666)	Phos-phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, col/100 mL (31633)	Fecal coliform, M-FC 0.7µ MF col/100 mL (31625)	Alum-inum, water, fltrd, µg/L (01106)	Alum-inum, water, unfltrd recover-able, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Cadmium water, fltrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)
NOV 02...	E.007n	.23	.27	.64	3,900	5,600	6	3,850d	1.3	E.03n	.13	2.1	88
02...	E.007n	.23	.27	.64	1,800	4,900	7	3,690d	1.3	E.03n	.13	2.3	93
JAN 05...	E.007n	.20	.25	.64	6,000	5,900	--	--	--	--	--	--	--
MAR 09...	<.008	<.02	<.04	E.03n	2k	2k	--	--	--	--	--	--	--
MAY 03...	.014	<.02	<.04	.06	25k	68	2	249	.6	<.04	E.02n	.9	38
JUL 26...	<.008	<.02	E.03n	.07	22k	40	--	--	--	--	--	--	--
SEP 07...	<.008	<.09d	<.04	.05	10k	16k	--	--	--	--	--	--	--

05514500 CUIVRE RIVER NEAR TROY, 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							
02...	.12	9.22	29.0	.02	E.3n	1.7	20
02...	.19	10.1	29.3	.01	E.2n	1.8	18
JAN							
05...	--	--	--	--	--	--	--
MAR							
09...	--	--	--	--	--	--	--
MAY							
03...	E.06n	.60	227	<.01	.4	1.3	E2n
JUL							
26...	--	--	--	--	--	--	--
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

MISSISSIPPI RIVER BASIN ABOVE MISSOURI RIVER

05514840 DARDENNE CREEK AT O'FALLON, MO

LOCATION.--Lat 38°44'25", long 90°41'42", in NE ¼ NE ¼ SE ¼ sec.16, T.46 N., R.3 E., St. Charles County, Hydrologic Unit 07110009, attached to downstream side of State Highway K bridge, 4.2 mi south of Interstate 70.

DRAINAGE AREA.--61.0 mi².

PERIOD OF RECORD.--Nov. 18, 1999 to current year.

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

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	3.1	366	255	15	23	24	19	23	4.0	1.3	0.17	2.3
2	3.1	176	121	16	21	19	18	20	3.6	1.2	0.17	2.0
3	3.4	87	83	1,330	21	17	16	17	3.3	1.2	0.21	1.1
4	3.8	104	63	882	20	18	15	15	3.5	1.2	0.25	1.2
5	3.0	61	55	3,870	18	17	14	14	4.8	1.2	0.64	1.1
6	3.0	45	121	655	20	16	14	15	3.4	1.0	1.9	1.2
7	11	32	1,810	261	64	23	14	15	3.9	0.97	1.6	1.0
8	20	24	280	181	234	18	13	14	4.6	1.3	0.99	0.19
9	7.8	20	153	121	115	14	12	14	5.8	1.1	0.60	0.25
10	3.8	18	102	87	80	15	12	12	5.7	1.1	1.9	0.08
11	18	e18	76	73	57	15	23	11	14	7.8	1.2	0.15
12	85	e250	59	98	58	12	407	11	17	35	9.5	1.9
13	38	112	49	1,460	657	11	228	9.8	35	7.1	92	1.8
14	30	67	36	267	344	11	113	13	188	2.8	57	10
15	34	51	31	138	152	10	75	11	27	4.1	57	154
16	15	e40	29	96	98	9.6	57	8.8	12	2.3	106	36
17	7.9	32	26	71	73	9.6	46	8.0	8.0	0.66	22	11
18	515	e28	24	58	58	9.9	37	7.4	5.9	6.0	21	6.9
19	101	e80	21	53	49	11	32	7.0	4.6	2.8	11	22
20	53	53	18	56	47	9.4	30	12	3.5	0.87	6.4	86
21	34	35	18	53	41	9.1	29	7.0	2.9	0.42	4.5	13
22	22	55	16	46	34	129	126	13	2.7	0.25	3.5	7.2
23	18	54	15	35	30	150	85	12	2.6	0.20	2.6	4.6
24	12	781	13	31	31	76	63	8.5	2.4	0.32	3.8	3.3
25	11	426	13	30	28	77	48	7.9	2.7	0.46	20	22
26	52	409	13	30	25	69	50	6.0	3.6	1.2	25	11
27	182	368	12	26	24	49	39	5.4	6.0	1.9	9.7	6.0
28	64	191	13	23	26	41	36	4.9	3.7	0.77	4.9	52
29	41	165	15	26	---	32	33	4.2	2.2	0.37	2.5	29
30	33	288	15	25	---	29	29	6.0	1.8	0.27	1.5	12
31	18	---	16	25	---	24	---	4.6	---	0.17	1.9	---
MEAN	46.6	148	115	327	87.4	31.4	57.8	10.9	12.9	2.82	15.2	16.7
MAX	515	781	1,810	3,870	657	150	407	23	188	35	106	154
MIN	3.0	18	12	15	18	9.1	12	4.2	1.8	0.17	0.17	0.08
IN.	0.88	2.71	2.18	6.18	1.49	0.59	1.06	0.21	0.24	0.05	0.29	0.31

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

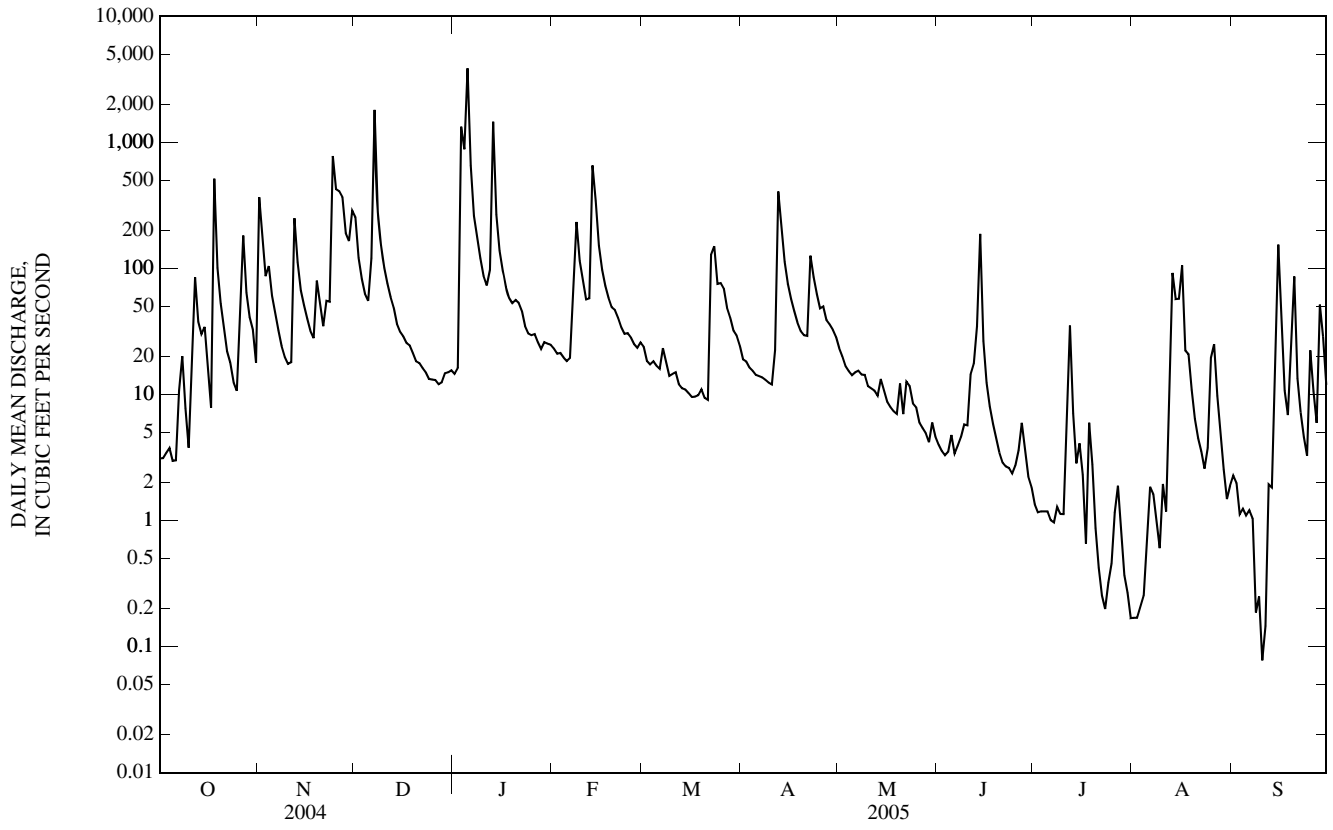
MEAN	25.8	71.4	52.0	94.3	64.4	76.4	60.3	121	106	15.8	21.2	10.6
MAX	46.6	148	115	327	101	166	138	271	220	31.7	77.1	18.6
(WY)	(2005)	(2005)	(2005)	(2005)	(2001)	(2004)	(2002)	(2002)	(2000)	(2004)	(2004)	(2003)
MIN	6.93	8.38	4.14	3.84	34.9	22.9	20.1	10.5	12.9	2.82	3.64	3.37
(WY)	(2001)	(2003)	(2001)	(2000)	(2003)	(2000)	(2000)	(2001)	(2005)	(2005)	(2003)	(2001)

SUMMARY STATISTICS

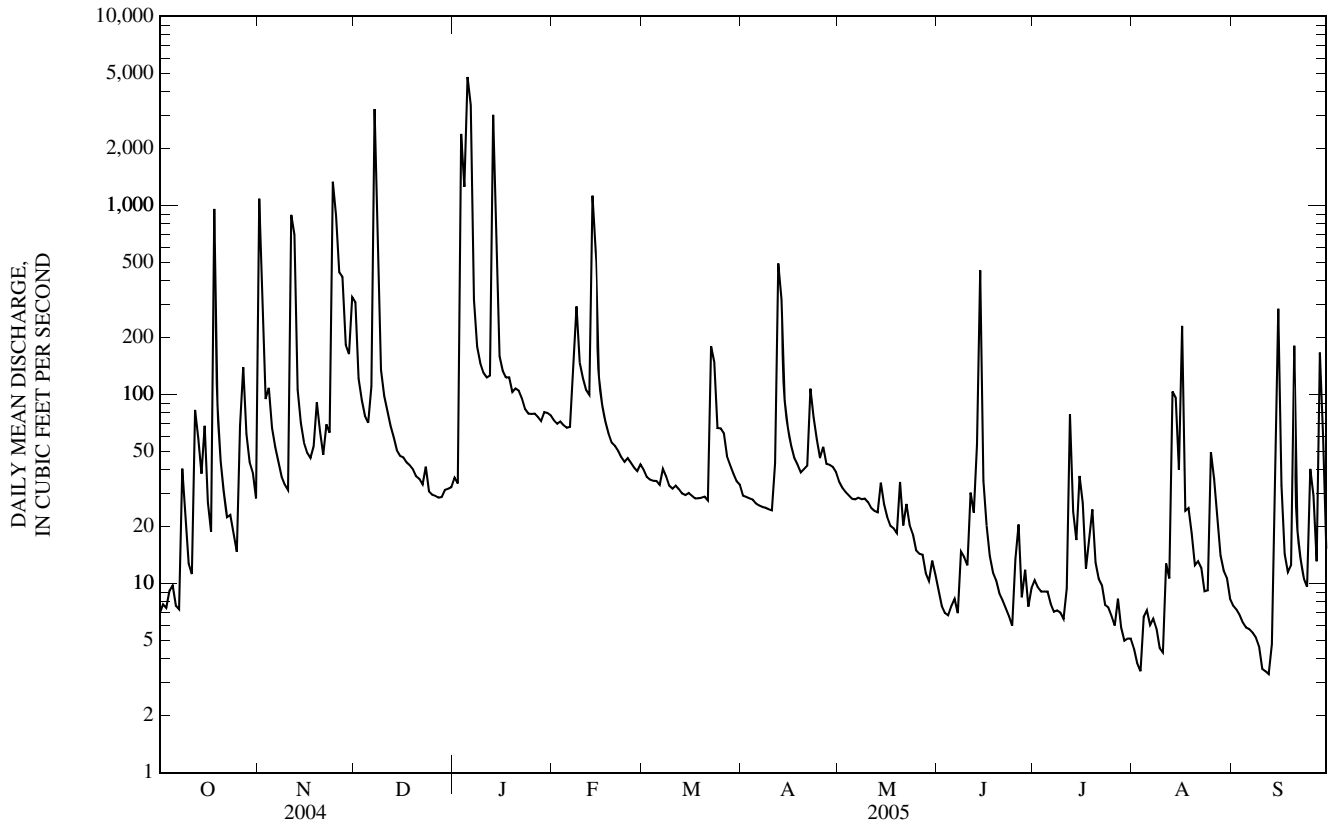
	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 2000 - 2005
ANNUAL MEAN	89.6	72.7	61.6
HIGHEST ANNUAL MEAN			82.2
LOWEST ANNUAL MEAN			27.2
HIGHEST DAILY MEAN	1,910	Jan 4	4,140
LOWEST DAILY MEAN	1.9	Aug 19	0.08
ANNUAL SEVEN-DAY MINIMUM	2.5	Aug 13	0.23
MAXIMUM PEAK FLOW	---	4,320	Jan 5
MAXIMUM PEAK STAGE	---	16.83	Jan 5
INSTANTANEOUS LOW FLOW	---	0.00	Sep 9-11
ANNUAL RUNOFF (INCHES)	20.00	16.18	13.71
10 PERCENT EXCEEDS	208	123	111
50 PERCENT EXCEEDS	27	18	15
90 PERCENT EXCEEDS	4.0	1.2	2.7

e Estimated

MISSISSIPPI RIVER BASIN ABOVE MISSOURI RIVER
05514840 DARDENNE CREEK AT O'FALLON, MO—Continued



05514860 DARDENNE CREEK AT OLD TOWN ST. PETERS, MO—Continued



MISSISSIPPI RIVER MAIN STEM

05587450 MISSISSIPPI RIVER AT GRAFTON, IL

LOCATION.--Lat 38°58'05", long 90°25'44", in NE ¼ sec.15, T.6 N., R.12 W., Jersey County, Hydrologic Unit 07110009, on left bank 0.2 mi downstream from the mouth of Illinois River, 15.3 mi above Lock and Dam 26, 23.0 mi above mouth of Missouri River, and at mile 218.6 upstream of the mouth of Ohio River.

DRAINAGE AREA.--171,300 mi², approximately.

PERIOD OF RECORD.--

DISCHARGE: Intermittently from 1880 to 1928, computed daily 1928 to 1932 by the National Weather Service and/or the U.S. Army Corps of Engineers. Discharge previously published as "Mississippi River at Alton, IL" (05587500) April 1933 to September 1986.

GAGE HEIGHT: August 1879 through September 1892, 1929 to September 1986, October 1986 to current year. Stages also available from reports of the National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 403.79 ft above National Geodetic Vertical Datum of 1929. Auxiliary water-stage recorder 15.3 mi downstream.

REMARKS.--No estimated daily discharges. Records poor. Natural flow of river affected by many navigation dams in upper Mississippi River Basin. Flood water from Missouri River overtops or breaches the levees at extremely high stages. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1844 reached an elevation of 435.89 ft, present datum.

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

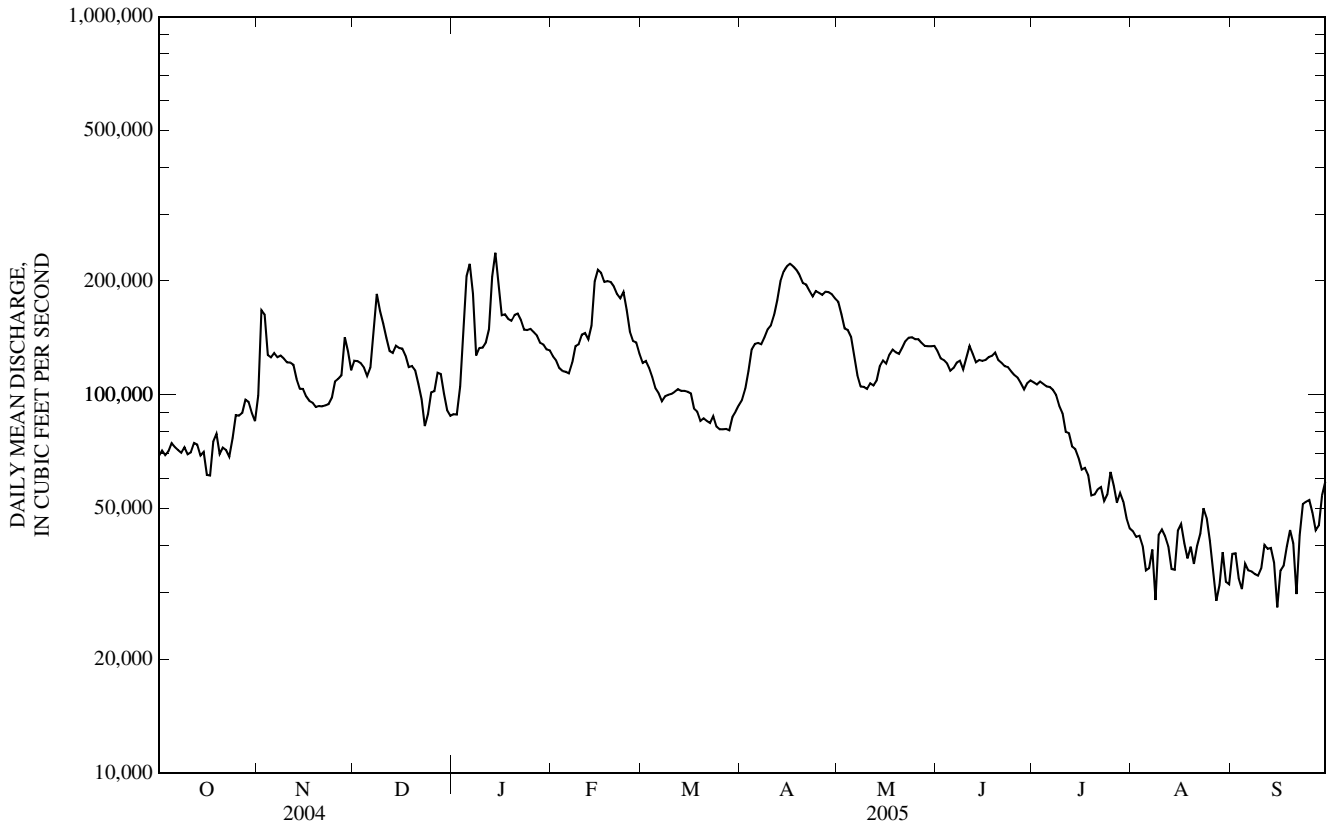
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68,900	99,600	123,000	88,800	126,000	122,000	97,000	176,000	131,000	108,000	43,500	38,000
2	71,200	167,000	123,000	88,700	123,000	123,000	104,000	163,000	125,000	107,000	42,100	38,100
3	69,200	163,000	121,000	105,000	118,000	118,000	116,000	150,000	124,000	108,000	42,400	32,700
4	70,900	127,000	118,000	150,000	116,000	111,000	132,000	148,000	121,000	107,000	39,800	30,700
5	74,500	126,000	112,000	206,000	115,000	104,000	136,000	142,000	116,000	105,000	34,300	35,800
6	72,800	129,000	118,000	222,000	114,000	101,000	137,000	127,000	118,000	105,000	34,800	34,300
7	71,500	126,000	147,000	185,000	122,000	96,300	136,000	113,000	122,000	103,000	39,000	34,100
8	70,300	127,000	185,000	127,000	135,000	99,100	142,000	105,000	123,000	99,900	28,700	33,600
9	72,700	125,000	167,000	133,000	136,000	100,000	149,000	105,000	117,000	93,500	42,700	33,300
10	69,700	122,000	154,000	133,000	144,000	101,000	152,000	104,000	126,000	89,400	44,100	34,800
11	70,500	122,000	141,000	137,000	146,000	102,000	162,000	107,000	135,000	79,800	42,300	40,100
12	74,600	120,000	131,000	149,000	140,000	103,000	178,000	106,000	128,000	79,200	39,800	39,200
13	73,800	110,000	129,000	205,000	152,000	102,000	200,000	109,000	122,000	73,000	34,700	39,400
14	69,100	104,000	135,000	238,000	200,000	102,000	212,000	119,000	124,000	71,900	34,500	36,000
15	70,600	104,000	133,000	198,000	214,000	102,000	219,000	123,000	123,000	68,200	43,700	27,400
16	61,400	99,100	133,000	162,000	210,000	101,000	222,000	121,000	124,000	63,500	45,500	34,300
17	61,200	96,300	127,000	163,000	199,000	91,900	219,000	128,000	126,000	64,100	40,500	35,400
18	75,200	95,300	118,000	159,000	200,000	90,300	214,000	132,000	127,000	61,500	37,000	39,800
19	78,800	92,800	119,000	157,000	199,000	85,300	207,000	130,000	129,000	54,200	39,700	43,900
20	69,700	93,400	116,000	163,000	193,000	86,600	197,000	128,000	124,000	54,500	35,700	40,500
21	72,500	93,200	107,000	164,000	185,000	85,300	196,000	133,000	122,000	56,300	39,900	29,700
22	71,500	93,800	97,400	158,000	180,000	84,200	188,000	139,000	119,000	57,000	43,000	42,600
23	68,600	94,500	82,700	149,000	187,000	87,900	182,000	142,000	118,000	52,300	50,100	51,400
24	76,900	98,100	89,000	148,000	168,000	82,500	188,000	142,000	115,000	54,500	47,200	52,200
25	88,300	108,000	101,000	149,000	147,000	81,100	186,000	140,000	113,000	62,500	41,000	52,700
26	88,100	110,000	102,000	146,000	139,000	81,100	184,000	140,000	111,000	57,600	34,200	48,800
27	89,600	113,000	114,000	144,000	138,000	81,200	187,000	137,000	107,000	51,800	28,500	43,800
28	97,100	142,000	114,000	137,000	128,000	80,600	187,000	135,000	103,000	55,100	31,400	45,200
29	95,800	130,000	101,000	136,000	---	87,500	185,000	134,000	107,000	52,200	38,400	54,300
30	89,700	116,000	90,900	132,000	---	90,300	180,000	134,000	109,000	47,200	32,000	58,900
31	85,300	---	88,000	131,000	---	93,900	---	135,000	---	44,300	31,600	---
MEAN	75,480	114,900	120,500	153,700	156,200	96,040	173,100	130,500	120,300	73,760	38,780	40,030
MAX	97,100	167,000	185,000	238,000	214,000	123,000	222,000	176,000	135,000	108,000	50,100	58,900
MIN	61,200	92,800	82,700	88,700	114,000	80,600	97,000	104,000	103,000	44,300	28,500	27,400
IN.	0.51	0.75	0.81	1.03	0.95	0.65	1.13	0.88	0.78	0.50	0.26	0.26

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

MEAN	84,260	90,150	85,630	78,540	95,560	137,900	178,500	199,100	179,300	145,100	98,460	77,610
MAX	334,900	171,300	169,900	161,000	158,000	217,400	342,100	333,300	287,200	469,300	416,900	309,900
(WY)	(1987)	(1987)	(1993)	(1993)	(1999)	(1997)	(1993)	(1993)	(2004)	(1993)	(1993)	(1993)
MIN	28,050	33,270	31,810	34,800	39,860	56,560	72,770	69,140	36,310	30,420	37,230	30,600
(WY)	(1989)	(1990)	(1990)	(1990)	(2003)	(2003)	(2000)	(1988)	(1988)	(1988)	(1988)	(2003)

05587450 MISSISSIPPI RIVER AT GRAFTON, IL—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1987 - 2005	
ANNUAL MEAN	121,300		107,300		120,900	
HIGHEST ANNUAL MEAN					250,700	1993
LOWEST ANNUAL MEAN					53,860	1989
HIGHEST DAILY MEAN	306,000	Jun 5	238,000	Jan 14	596,000	Aug 3, 1993
LOWEST DAILY MEAN	32,500	Jan 10	27,400	Sep 15	16,200	Oct 7, 2003
ANNUAL SEVEN-DAY MINIMUM	37,000	Feb 5	33,400	Aug 26	23,600	Dec 12, 1988
MAXIMUM PEAK FLOW	---		239,000	Jan 14	598,000	Aug 1, 1993
MAXIMUM PEAK STAGE	---		421.62	Jan 14	441.96	Aug 1, 1993
INSTANTANEOUS LOW FLOW	---		20,200	Sep 15	16,200	Oct 7, 2003
ANNUAL RUNOFF (INCHES)	9.64		8.51		9.59	
10 PERCENT EXCEEDS	250,000		177,000		242,000	
50 PERCENT EXCEEDS	102,000		108,000		95,000	
90 PERCENT EXCEEDS	45,100		40,000		42,500	



MISSISSIPPI RIVER MAIN STEM

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL
(Ambient Water-Quality Monitoring Network)
(Metropolitan St. Louis Sewer District Network)

LOCATION.--Lat 38°57'04", long 90°22'16", in sec.24, T.6 N., R.11 W., Jersey County, Hydrologic Unit 07110009, 11.3 mi above Lock and Dam 26, 19.0 mi above mouth of Missouri River, and at mile 214.6 upstream from the mouth of the Ohio River.

DRAINAGE AREA.--171,300 mi², approximately.

PERIOD OF RECORD.--March 1989 to current year. National Stream-Quality Accounting Network station September 1989 to October 1992. National Stream-Quality Accounting Network station November 1992 to September 2003. Ambient Water-Quality Monitoring Network November 1992 to current year. St. Louis Metropolitan Sewer District April 2005 to current year.

REMARKS.--Sediment records poor.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT: October 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--

SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean, 1,910 mg/L, May 23, 1990; minimum daily mean, 1 mg/L, Sept. 10, 1991.

SUSPENDED-SEDIMENT LOAD: Maximum daily, 1,090,000 tons, May 23, 1990; minimum daily, 186 tons, Sept. 10, 1991.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean, 740 mg/L, Nov. 3; minimum daily mean, 50 mg/L, Sept. 28.

SUSPENDED-SEDIMENT LOAD: Maximum daily, 433,000 tons, Jan. 14; minimum daily, 4,550 tons, Sept. 21.

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

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf μS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)
OCT 25...	1230	Environmental	88,300	.153	.111	11.2	113	8.0	467	15.3	200	47.7
NOV 08...	1300	Environmental	127,000	.169	.127	11.1	102	7.8	499	11.8	220	55.0
DEC 06...	1335	Environmental	118,000	.144	.107	11.3	92	8.0	551	5.8	240	57.7
JAN 10...	1330	Environmental	133,000	.142	.107	8.1	58	7.7	491	1.5	220	54.6
JAN 10...	1445	Blank	--	--	--	--	--	--	--	--	--	<.02
FEB 08...	1315	Environmental	135,000	.132	.098	14.0	105	7.4	635	3.1	270	65.5
MAR 07...	1335	Environmental	96,300	.152	.115	15.4	126	8.2	590	5.7	250	61.5
APR 12...	0945	Environmental	178,000	.147	.110	8.8	90	7.8	473	15.2	200	48.8
APR 21...	1515	Environmental	196,000	--	--	8.3	89	7.9	427	17.9	180	44.7
MAY 09...	1240	Environmental	105,000	.184	.135	10.9	115	8.2	437	17.1	210	50.0
MAY 09...	1241	Replicate	212,000	--	--	--	--	--	--	--	210	50.3
JUN 10...	1155	Environmental	126,000	--	--	7.8	96	7.7	517	25.4	240	55.5
JUN 20...	1400	Environmental	124,000	.154	.111	7.8	98	8.0	533	26.5	260	60.7
JUL 11...	1215	Environmental	79,800	.203	.147	6.4	82	7.7	494	27.2	230	56.2
JUL 20...	1230	Environmental	54,500	--	--	9.6	132	8.4	510	31.3	260	63.6
AUG 08...	1250	Environmental	28,700	.210	.152	9.9	132	8.5	485	29.9	230	51.7
SEP 12...	1240	Environmental	39,200	.168	.120	9.1	118	8.4	491	28.1	208	44.7

05587455 MISSISSIPPI RIVER BELOW GRAFTON, 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)	ANC, wat unf fixed end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unf incrm. titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Carbonate, wat unf incrm. titr., field, mg/L (00447)	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)	Residue total at 105 deg. C, suspended, mg/L (00530)
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, ug/L (62360)
OCT 25...	.72	E.04n	1.72	.023	.17	.09	.11	.17	1.4	<.1	1.4	6.0	28.6
NOV 08...	1.1	E.03n	3.08	.028	.45	.15	.18	.41	4.5	<.1	4.4	5.1	8.2
DEC 06...	.82	.05	3.99	.019	.35	.11	.12	.26	3.1	<.1	3.1	4.8	7.0
JAN 10...	1.0	.10	4.06	.019	.42	.13	.16	.39	3.8	<.1	3.7	4.9	6.9
JAN 10...	<.10	<.04	<.06	<.008	--	<.02	<.04	<.04	--	--	--	--	--
FEB 08...	.73	.10	3.83	.022	.30	.09	.10	.16	1.6	<.1	1.6	4.9	2.2
MAR 07...	1.1	<.04	4.38	.023	.25	.08	.16	.23	1.7	<.1	1.7	62.9d	3.9
APR 12...	1.4	.06	2.68	.047	.53	.08	.10	.31	3.7	<.1	3.7	5.4	16.1
APR 21...	1.2	E.04n	2.65	.033	--	.06	--	.27	--	--	--	--	--
MAY 09...	.98	<.04	3.46	.014	.32	.03	.06	.16	2.3	<.1	2.3	7.0	19.5
MAY 09...	1.0	<.04	3.46	.010	--	.04	.07	.16	--	--	--	--	--
JUN 10...	1.1	E.04n	4.45	.030	--	.06	--	.24	--	--	--	--	--
JUN 20...	.92	<.04	4.94	.071	.30	.09	.11	.21	1.8	<.1	1.7	7.1	10.4
JUL 11...	.79	<.04	5.09d	.046	.23	.14	.17	.21	1.5	<.1	1.5	6.6	7.2
JUL 20...	1.0	.06	3.78	.042	--	.04	--	.18	--	--	--	--	--
AUG 08...	.89	<.04	.69	.035	.44	.12	.15	.21	2.9	<.1	2.9	6.8	E17.9
SEP 12...	1.1	<.04	.15	E.007n	.48	.14	.18	.24	3.0	<.1	2.9	11.1	18.8

05587455 MISSISSIPPI RIVER BELOW GRAFTON, 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/ 100 mL (31625)	Chloro- phyll a phyto- plank- ton, fluoro, µg/L (70953)	Alum- inum, water, fltrd, µg/L (01106)	Alum- inum, water, unfltrd recover- able, µg/L (01105)	Cadmium water, fltrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)
OCT 25...	17k	12k	22.6	--	--	--	--	--	--	--	--	--	--
NOV 08...	120	100	4.0	--	--	--	--	--	--	--	--	--	--
DEC 06...	65	68k	11.8	2	1,040d	E.04n	.11	2.1	6	.08	2.71	11.3	E.01n
JAN 10...	130	220	13.3	--	--	--	--	--	--	--	--	--	--
JAN 10...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 08...	20	40	11.0	--	--	--	--	--	--	--	--	--	--
MAR 07...	4k	9k	6.3	2	412	E.03n	.05	1.7	23	<.08	.99	11.5	<.01
APR 12...	27k	12k	16.8	--	--	--	--	--	--	--	--	--	--
APR 21...	20k	10k	--	2	--	.05	--	1.9	8	E.05n	--	1.3	E.01n
MAY 09...	1k	3k	26.1	6	446	E.02n	.05	2.3	10	.26	1.18	2.3	<.01
MAY 09...	1k	3k	--	5	433	E.03n	.07	2.0	12	.23	1.28	1.8	<.01
JUN 10...	6k	10k	--	3	--	.04	--	2.3	E3n	.12	--	.7	E.01n
JUN 20...	110	240	17.8	--	--	--	--	--	--	--	--	--	--
JUL 11...	18k	24	12.4	2	392	E.02n	.04	2.0	<6	.26	.93	1.1	<.01
JUL 20...	25k	25	--	2	--	<.04	--	2.2	E3n	<.08	--	.7	<.01
AUG 08...	5k	3k	E38.5	--	--	--	--	--	--	--	--	--	--
SEP 12...	8k	3k	54.4	--	--	--	--	--	--	--	--	--	--

Date	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)	2,6-Di- ethyl- aniline water fltrd 0.7µ GF µg/L (82660)	CIAT, water, fltrd, µg/L (04040)	Aceto- chlor, water, fltrd, µg/L (49260)	Ala- chlor, water, fltrd, µg/L (46342)	alpha- HCH, water, fltrd, µg/L (34253)	Atra- zine, water, fltrd, µg/L (39632)	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 0.7µGF µg/L (82680)
OCT 25...	--	--	<.006	E.022	.032	.009	<.005	.161	<.050	<.010	<.002	<.041
NOV 08...	--	--	<.006	E.023	.017	<.004	<.005	.121	<.050	<.010	<.002	<.041
DEC 06...	2.2	12	E.003n	E.024	.074	<.004	<.005	.157	<.050	<.010	<.002	<.041
JAN 10...	--	--	.016	E.024	.036	<.004	<.005	.096	<.050	<.010	<.002	<.041
JAN 10...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 08...	--	--	E.004n	E.017	.081	<.004	<.005	.136	<.050	<.010	<.002	<.041
MAR 07...	2.1	7	<.006	E.034m	.035	<.005	<.005	.064	<.050m	<.010	<.004	<.041m
APR 12...	--	--	<.006	E.015m	.154	.015	<.005	.144	<.050m	<.010	<.004	<.041m
APR 21...	1.1	--	--	--	--	--	--	--	--	--	--	--
MAY 09...	2.5	4	E.002t	E.018m	.067	E.003n	<.005	.239	<.050m	<.010	<.004	<.041m
MAY 09...	1.2	6	--	--	--	--	--	--	--	--	--	--
JUN 10...	1.0	--	--	--	--	--	--	--	--	--	--	--
JUN 20...	--	--	<.006	E.100m	.184	<.010	<.005	.818	<.050m	<.010	<.004	<.041m
JUL 11...	1.4	5	<.006	E.098m	.064	<.005	<.005	.789	<.050m	<.010	<.004	<.041m
JUL 20...	2.0	--	--	--	--	--	--	--	--	--	--	--
AUG 08...	--	--	<.006	E.031m	<.015	<.005	<.005	.337	<.050m	<.010	<.004	<.041m
SEP 12...	--	--	<.006	E.028m	.048	<.005	<.005	.236	<.050m	<.010	<.004	<.041m

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL—Continued

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

Date	Carbo- furan, water, fltrd 0.7µ GF (82674)	Chloro- 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)	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)
OCT 25...	<.020	<.005	<.006	<.018	<.003	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
NOV 08...	<.020	<.005	<.006	<.018	<.003	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
DEC 06...	<.020	<.005	<.006	<.018	<.003	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
JAN 10...	<.020	<.005	<.006	<.018	<.003	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
JAN 10...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 08...	<.020	<.005	<.006	<.018	<.003	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
MAR 07...	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004
APR 12...	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004
APR 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 09...	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004
MAY 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 10...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 20...	<.020m	<.010	<.006	<.018	<.003	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004
JUL 11...	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004
JUL 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 08...	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004
SEP 12...	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004	<.009	<.005	<.003	<.004	<.035
Date	Linuron water fltrd 0.7µ GF (82666)	Mala- thion, 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)	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)
OCT 25...	<.035	<.027	<.006	.033	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011	<.01
NOV 08...	<.035	<.027	<.006	.040	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011	<.01
DEC 06...	<.035	<.027	<.006	.046	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011	<.01
JAN 10...	<.035	<.027	<.006	.045	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011	<.01
JAN 10...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 08...	<.035	<.027	<.006	.059	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011	<.01
MAR 07...	<.035	<.027	<.015	.168	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	<.01
APR 12...	<.035	<.027	<.015	.198	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	<.01
APR 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 09...	<.035	<.027	<.015	.082	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	<.01
MAY 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 10...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 20...	<.035	<.027	<.015	.204	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	E.01n
JUL 11...	<.035	<.027	<.015	.150	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	E.01n
JUL 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 08...	<.035	<.027	<.015	.028	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	E.01n
SEP 12...	<.027	<.015	.016	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	.01	<.004

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

Date	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 0.7µ GF µg/L (82685)	Sima- zine, water, fltrd, µg/L (04035)	Tebu- thiuron water fltrd 0.7µ GF µg/L (82670)	Terba- cil, water, fltrd 0.7µ GF µg/L (82665)	Terbu- fos, water, fltrd 0.7µ GF µg/L (82675)	Thio- bencarb water fltrd 0.7µ GF µg/L (82681)	Tri- allate, water, fltrd 0.7µ GF µg/L (82678)	Tri- flur- alin, water, fltrd 0.7µ GF µg/L (82661)
OCT											
25...	<.004	<.010	<.011	<.02	.021	<.02	<.034	<.02	<.005	<.002	<.009
NOV											
08...	<.004	<.010	<.011	<.02	<.010	<.02	<.034	<.02	<.005	<.002	<.009
DEC											
06...	<.004	<.010	<.011	<.02	.056	<.02	<.034	<.02	<.005	<.002	<.009
JAN											
10...	<.004	<.010	<.011	<.02	.118	<.02	<.034	<.02	<.005	<.002	<.009
10...	--	--	--	--	--	--	--	--	--	--	--
FEB											
08...	<.004	<.010	<.011	<.02	.045	<.02	<.034	<.02	<.005	<.002	<.009
MAR											
07...	<.004	<.025	<.011	<.02	.054	<.02	<.034m	<.02	<.010	<.006	<.009
APR											
12...	<.004	<.025	<.011	<.02	.013	<.02	<.034m	<.02	<.010	<.006	<.009
21...	--	--	--	--	--	--	--	--	--	--	--
MAY											
09...	<.004	<.025	<.011	<.02	.011	<.02	<.034m	<.02	<.010	<.006	<.009
09...	--	--	--	--	--	--	--	--	--	--	--
JUN											
10...	--	--	--	--	--	--	--	--	--	--	--
20...	<.004	<.025	<.011	<.02	.036	<.02	<.034m	<.02	<.010	<.006	<.009
JUL											
11...	<.004	<.025	<.011	<.02	.018	<.02	<.034m	<.02	<.010	<.006	<.009
20...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	<.004	<.025	<.011	<.02	<.009	<.02	<.034m	<.02	<.010	<.006	<.009
SEP											
12...	<.025	<.011	<.02	<.007	<.02	<.034mc	<.02	<.010	<.006	<.009	<.025

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

MISSISSIPPI RIVER MAIN STEM

05587455 MISSISSIPPI RIVER BELOW GRAFTON, 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	97,000	182	47,600	176,000	259	123,000	131,000	169	59,700
2	104,000	180	50,400	163,000	258	114,000	125,000	177	59,500
3	116,000	197	61,500	150,000	237	96,000	124,000	164	54,800
4	132,000	235	83,700	148,000	208	83,100	121,000	155	50,700
5	136,000	244	89,800	142,000	180	69,100	116,000	152	47,500
6	137,000	214	79,200	127,000	165	56,600	118,000	158	50,300
7	136,000	218	80,100	113,000	174	53,100	122,000	175	57,600
8	142,000	208	79,600	105,000	151	43,000	123,000	160	53,300
9	149,000	204	82,100	105,000	126	35,700	117,000	133	42,200
10	152,000	199	82,000	104,000	124	34,800	126,000	154	52,400
11	162,000	201	88,100	107,000	165	47,700	135,000	179	65,200
12	178,000	234	113,000	106,000	176	50,400	128,000	186	64,400
13	200,000	370	200,000	109,000	171	50,500	122,000	195	64,400
14	212,000	486	278,000	119,000	185	59,800	124,000	206	68,800
15	219,000	543	321,000	123,000	208	69,200	123,000	200	66,300
16	222,000	542	325,000	121,000	209	68,100	124,000	184	61,400
17	219,000	518	306,000	128,000	193	66,700	126,000	168	57,100
18	214,000	368	212,000	132,000	168	59,700	127,000	183	62,600
19	207,000	335	187,000	130,000	208	72,700	129,000	178	62,100
20	197,000	294	157,000	128,000	202	70,000	124,000	131	43,900
21	196,000	246	130,000	133,000	190	68,300	122,000	126	41,400
22	188,000	252	128,000	139,000	187	69,900	119,000	139	44,600
23	182,000	263	130,000	142,000	254	97,100	118,000	132	42,200
24	188,000	266	135,000	142,000	285	109,000	115,000	123	38,500
25	186,000	326	164,000	140,000	244	92,500	113,000	126	38,300
26	184,000	293	146,000	140,000	219	83,000	111,000	114	34,200
27	187,000	310	157,000	137,000	209	77,600	107,000	113	32,800
28	187,000	318	160,000	135,000	200	72,600	103,000	89	24,800
29	185,000	285	142,000	134,000	191	69,200	107,000	92	26,700
30	180,000	262	128,000	134,000	197	71,400	109,000	104	30,800
31	---	---	---	135,000	195	70,800	---	---	---
TOTAL	5,194,000	---	4,343,100	4,047,000	---	2,204,600	3,609,000	---	1,498,500
		JULY			AUGUST			SEPTEMBER	
1	108,000	111	32,200	43,500	78	9,140	38,000	80	8,310
2	107,000	115	33,000	42,100	78	8,930	38,100	77	7,920
3	108,000	119	34,700	42,400	73	8,310	32,700	69	6,100
4	107,000	116	33,300	39,800	95	10,500	30,700	71	5,910
5	105,000	106	30,100	34,300	102	9,370	35,800	71	6,810
6	105,000	93	26,300	34,800	99	9,370	34,300	68	6,320
7	103,000	91	25,200	39,000	90	9,430	34,100	67	6,140
8	99,900	93	25,200	28,700	83	6,400	33,600	65	5,860
9	93,500	94	23,700	42,700	95	11,100	33,300	75	6,760
10	89,400	88	21,200	44,100	105	12,400	34,800	68	6,420
11	79,800	87	18,900	42,300	96	11,000	40,100	65	7,090
12	79,200	89	19,100	39,800	85	9,150	39,200	62	6,540
13	73,000	89	17,500	34,700	77	7,200	39,400	65	7,020
14	71,900	84	16,400	34,500	75	7,060	36,000	70	6,800
15	68,200	79	14,600	43,700	81	9,630	27,400	66	5,020
16	63,500	70	12,000	45,500	83	10,200	34,300	62	5,770
17	64,100	66	11,500	40,500	81	8,820	35,400	57	5,470
18	61,500	72	12,000	37,000	78	7,810	39,800	66	7,170
19	54,200	68	10,100	39,700	71	7,530	43,900	72	8,570
20	54,500	63	9,350	35,700	71	6,830	40,500	65	7,110
21	56,300	72	11,000	39,900	83	9,000	29,700	56	4,550
22	57,000	65	9,970	43,000	107	12,500	42,600	65	7,610
23	52,300	70	9,870	50,100	98	13,200	51,400	63	8,770
24	54,500	77	11,300	47,200	103	13,000	52,200	57	8,020
25	62,500	84	14,200	41,000	103	11,400	52,700	73	10,400
26	57,600	104	16,100	34,200	85	7,800	48,800	66	8,700
27	51,800	92	12,800	28,500	86	6,720	43,800	62	7,360
28	55,100	86	12,900	31,400	72	6,170	45,200	50	6,130
29	52,200	78	10,900	38,400	71	7,310	54,300	55	8,050
30	47,200	79	10,100	32,000	82	7,060	58,900	57	8,780
31	44,300	78	9,250	31,600	75	6,410	---	---	---
TOTAL	2,286,500	---	554,740	1,202,100	---	280,750	1,201,000	---	211,480