

03302000 POND CREEK NEAR LOUISVILLE, KY

LOCATION.--Lat 38°07'11", long 85°47'45", Jefferson County, Hydrologic Unit 05140102, on upstream side of bridge on Manslick Rd, right bank, 0.4 mi south of Third Street Rd, 0.6 mi downstream from Bee Lick Creek, 1.5 mi downstream from confluence of Northern and Southern Ditches, 2.4 mi south of Louisville city limits, and at mile 15.4.

DRAINAGE AREA.--64.0 mi².

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

REVISED RECORDS.--WSP 1705: Drainage area.

GAGE.--Water-stage recorder with telemetry and crest-stage gage. Datum of gage is 430.38 ft above NGVD of 1929. See WDR KY-90-1 for history of changes prior to Nov. 16, 1962.

REMARKS.--Records good except for those estimated, which are poor.

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in January 1937 reached a stage of about 23 ft present datum, backwater from Ohio River, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 19	0205	*3,630	*19.07	Jan 6	0840	1,840	13.88
Nov 2	1515	2,510	16.18	Mar 28	0340	3,060	17.65
Nov 12	0000	2,010	14.50	May 20	0450	2,900	17.26
Jan 3	1310	1,650	13.13	Aug 30	1610	1,670	13.20

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	9.2	212	256	751	54	70	100	100	23	25	6.3	121
2	8.6	1,160	118	346	e63	46	121	58	38	9.9	5.8	66
3	7.6	481	88	1,030	123	40	87	46	109	7.9	5.7	38
4	7.6	230	72	546	76	35	69	33	92	7.2	5.8	25
5	7.1	125	59	524	58	33	59	27	29	6.7	17	20
6	6.5	88	83	1,090	49	28	52	23	18	6.7	11	14
7	6.7	69	510	387	144	43	57	21	16	6.6	6.3	13
8	7.1	57	177	627	312	90	47	19	13	6.1	8.2	12
9	7.0	51	383	240	145	42	36	18	12	6.3	6.8	20
10	7.1	40	276	172	123	39	32	18	43	6.3	6.0	14
11	7.7	518	169	143	88	33	29	16	37	15	6.7	10
12	20	887	122	133	73	71	59	16	64	92	6.8	9.0
13	45	186	87	274	251	52	90	14	61	91	6.3	8.2
14	17	113	65	251	238	44	45	228	21	33	16	8.2
15	39	85	53	118	134	38	32	67	16	e31	9.2	7.6
16	11	69	e45	91	95	32	26	32	19	32	77	7.2
17	9.1	60	e38	70	69	31	23	23	20	24	23	6.7
18	693	57	e33	e60	55	29	21	19	19	15	12	6.6
19	1,910	550	e30	52	47	30	20	211	18	12	13	6.5
20	299	195	e28	51	72	30	20	1,850	17	9.7	11	85
21	128	113	29	48	94	25	19	345	16	7.9	14	23
22	80	88	216	42	70	46	43	145	16	124	8.8	12
23	78	81	e156	35	53	132	82	114	16	32	14	9.5
24	119	309	116	30	52	81	29	63	15	15	7.9	8.1
25	62	225	e77	32	44	58	23	48	16	12	6.4	11
26	50	113	60	34	42	47	91	40	16	10	6.1	48
27	593	114	49	27	35	283	68	35	15	9.2	15	16
28	131	149	45	23	76	1,780	38	32	43	8.9	149	13
29	90	90	261	75	---	399	122	28	58	7.7	206	20
30	84	136	786	110	---	191	424	25	23	7.2	840	11
31	55	---	965	73	---	140	---	24	---	6.6	470	---
TOTAL	4,595.3	6,651	5,452	7,485	2,735	4,038	1,964	3,738	919	683.9	1,997.1	669.6
MEAN	148	222	176	241	97.7	130	65.5	121	30.6	22.1	64.4	22.3
MAX	1,910	1,160	965	1,090	312	1,780	424	1,850	109	124	840	121
MIN	6.5	40	28	23	35	25	19	14	12	6.1	5.7	6.5
CFSM	2.32	3.46	2.75	3.77	1.53	2.04	1.02	1.88	0.48	0.34	1.01	0.35
IN.	2.67	3.87	3.17	4.35	1.59	2.35	1.14	2.17	0.53	0.40	1.16	0.39

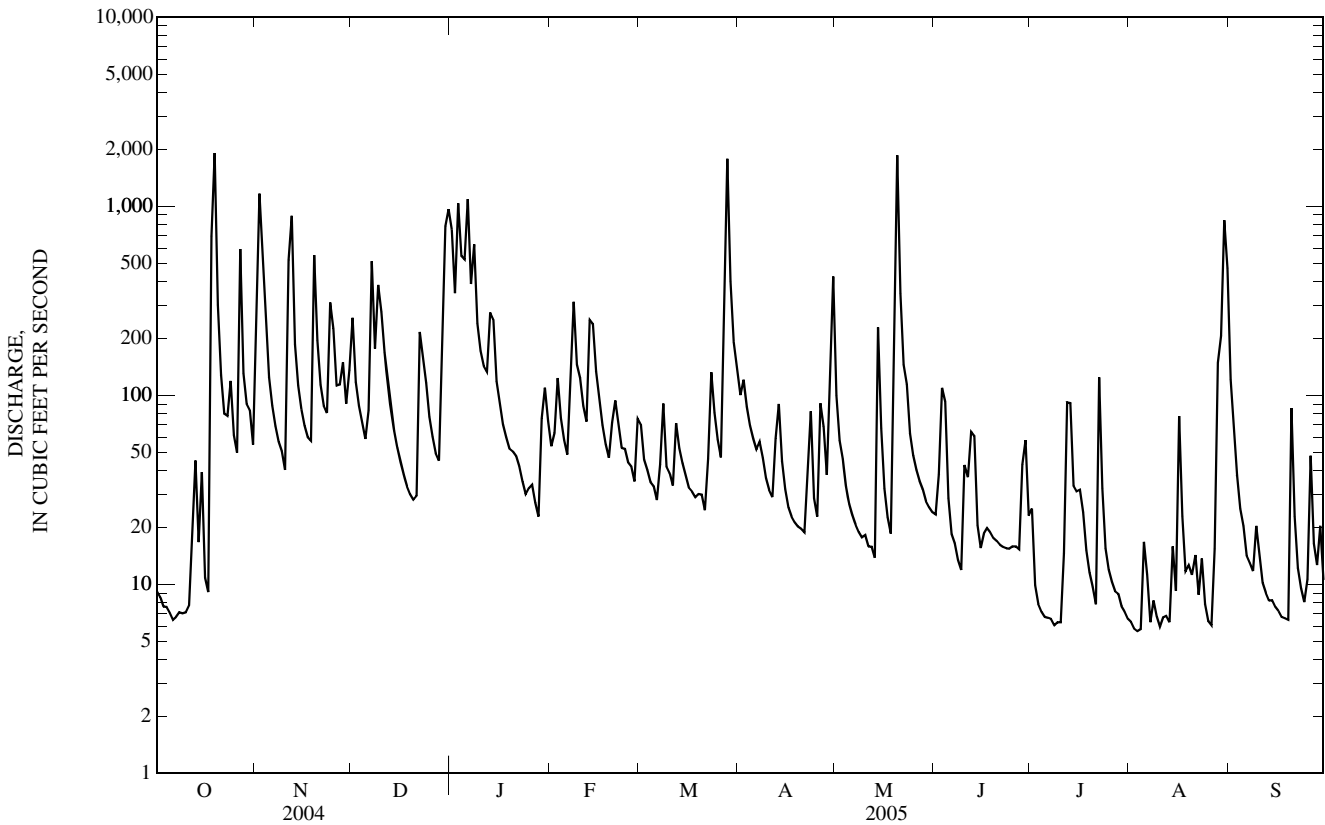
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2005, BY WATER YEAR (WY)

MEAN	31.2	61.6	101	134	154	183	131	115	68.5	45.8	35.5	34.4
MAX	148	256	310	614	454	814	551	505	328	282	186	399
(WY)	(2005)	(1974)	(1979)	(1950)	(1989)	(1997)	(1970)	(1983)	(1997)	(1973)	(1992)	(1979)
MIN	1.76	2.60	4.48	8.52	10.1	11.4	21.2	10.6	4.54	2.96	0.78	1.15
(WY)	(1947)	(1945)	(1954)	(1977)	(1954)	(1954)	(2001)	(1954)	(1954)	(1952)	(1945)	(1945)

03302000 POND CREEK NEAR LOUISVILLE, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1944 - 2005	
ANNUAL TOTAL	45,042.8		40,927.9		91.0	
ANNUAL MEAN	123		112		11.4	
HIGHEST ANNUAL MEAN					159	1950
LOWEST ANNUAL MEAN					11.4	1954
HIGHEST DAILY MEAN	1,920	May 28	1,910	Oct 19	7,200	Mar 2, 1997
LOWEST DAILY MEAN	6.5	Oct 6	5.7	Aug 3	0.10	Sep 3, 1945
ANNUAL SEVEN-DAY MINIMUM	7.0	Oct 4	6.4	Jul 29	0.19	Sep 17, 1945
MAXIMUM PEAK FLOW			3,630	Oct 19	8,020	Mar 9, 1964
MAXIMUM PEAK STAGE			19.07	Oct 19	25.74	Mar 2, 1997
INSTANTANEOUS LOW FLOW			5.2	Aug 3	0.10	Sep 3, 1945
ANNUAL RUNOFF (CFSM)	1.92		1.75		1.42	
ANNUAL RUNOFF (INCHES)	26.18		23.79		19.32	
10 PERCENT EXCEEDS	312		251		191	
50 PERCENT EXCEEDS	51		43		27	
90 PERCENT EXCEEDS	9.2		7.8		6.0	

e Estimated



03302030 POND CREEK AT PENDLETON ROAD NEAR LOUISVILLE, KY

LOCATION.--Lat 38°03'15", long 85°52'18", Jefferson County, Hydrologic Unit 05140102, at bridge on Pendleton Road near Louisville, 1.3 mi above Brier Creek and at mile 7.1.

DRAINAGE AREA.--80.3 mi².

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

GAGE.--Water-stage recorder with telemetry and crest-stage gage.

REMARKS.--Records good except those estimated, which are poor.

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 19	0645	*3,820	*18.29	No other peak greater than base discharge.			

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	307	430	1,290	65	109	e198	154	29	26	6.8	176
2	12	1,650	152	614	55	65	e212	79	38	16	6.4	84
3	12	1,100	105	1,660	149	55	e153	59	65	11	5.8	45
4	12	365	82	1,040	93	49	e121	43	194	9.9	5.6	29
5	12	171	68	1,030	69	46	e102	36	42	9.2	5.9	23
6	11	107	88	e1,990	57	40	e90	31	26	8.9	20	16
7	11	79	844	e583	137	42	e98	28	22	8.7	9.1	13
8	11	61	307	e1,040	618	127	e76	25	20	8.1	9.7	12
9	12	54	468	e378	222	60	e57	23	17	7.6	8.5	12
10	12	43	580	e248	183	51	46	22	18	8.2	7.2	22
11	11	552	229	e209	121	47	42	21	e62	9.1	6.2	10
12	14	1,810	162	e200	98	78	60	20	e49	87	7.4	8.8
13	71	295	105	e469	338	75	125	18	e77	107	7.0	7.7
14	43	142	75	e378	450	58	61	301	31	42	12	7.0
15	47	98	60	e189	210	e47	45	113	22	27	14	6.6
16	20	77	52	e131	134	e42	36	40	22	37	65	6.1
17	9.4	65	48	e102	95	42	32	30	22	37	41	5.7
18	784	59	43	e78	76	40	30	24	23	19	16	5.7
19	2,950	911	39	e71	65	37	28	110	21	15	12	5.5
20	546	348	31	e68	79	43	26	2,880	21	12	14	85
21	176	146	30	e65	137	35	24	662	20	11	16	31
22	94	102	288	e58	101	39	24	214	19	126	11	13
23	71	88	e227	e46	75	215	117	146	19	46	14	9.1
24	162	378	e175	e37	71	142	40	81	19	21	11	7.7
25	76	401	e118	e38	63	83	29	61	18	15	7.9	6.9
26	54	143	e91	41	58	70	71	50	18	13	7.3	42
27	1,140	105	e71	35	50	403	132	44	18	11	16	20
28	192	213	e76	28	78	3,080	43	41	22	11	31	13
29	115	105	384	62	---	1,010	124	36	56	10	446	16
30	98	122	1,310	144	---	439	770	32	44	8.6	e1,420	15
31	71	---	1,900	93	---	e237	---	30	---	7.6	1,030	---
TOTAL	6,860.4	10,097	8,638	12,415	3,947	6,906	3,012	5,454	1,074	785.9	3,289.8	753.8
MEAN	221	337	279	400	141	223	100	176	35.8	25.4	106	25.1
MAX	2,950	1,810	1,900	1,990	618	3,080	770	2,880	194	126	1,420	176
MIN	9.4	43	30	28	50	35	24	18	17	7.6	5.6	5.5

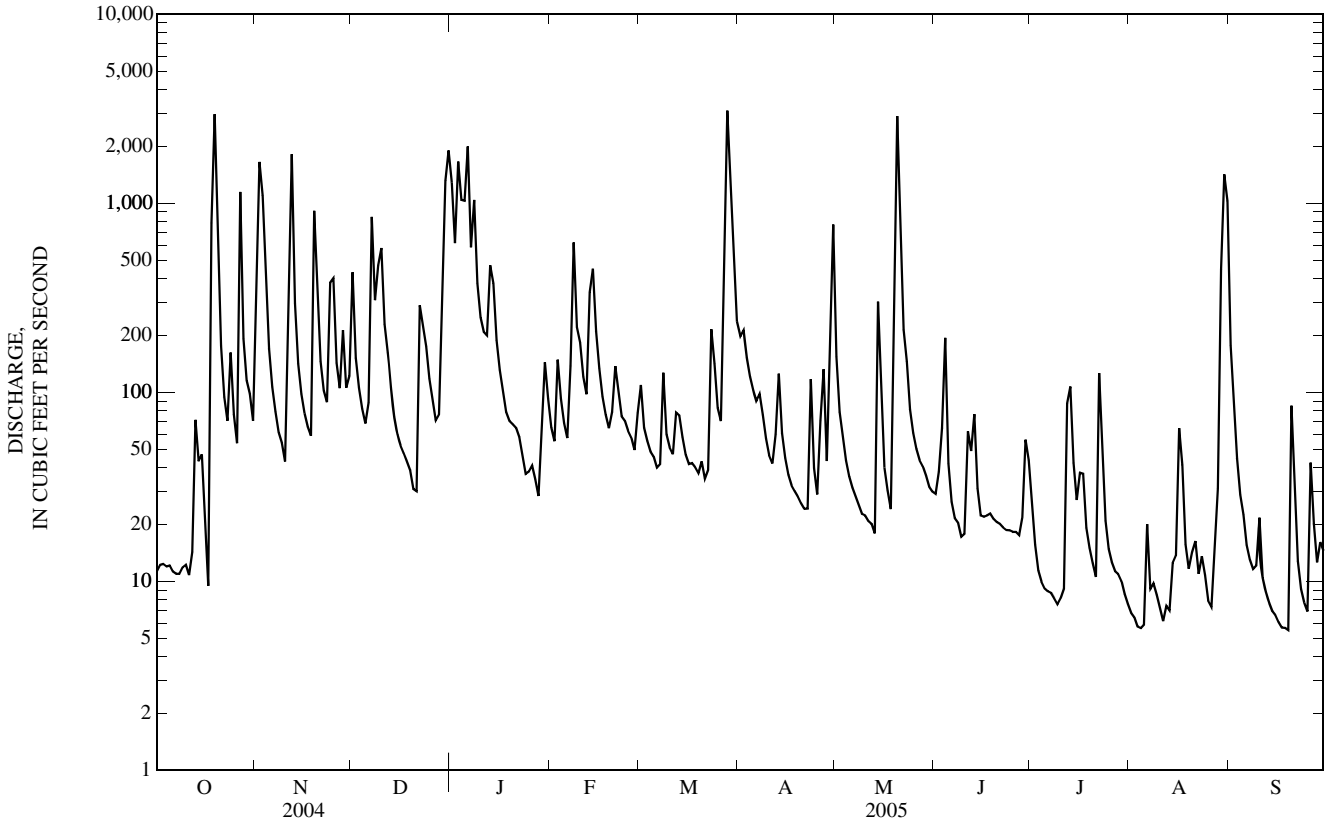
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	92.8	143	196	270	186	207	148	193	91.2	40.2	50.3	71.0
MAX	221	337	302	440	315	451	287	399	214	103	106	169
(WY)	(2005)	(2005)	(2003)	(1999)	(2003)	(2002)	(2002)	(2004)	(2004)	(2004)	(2004)	(2003)
MIN	26.9	21.3	100	44.0	104	84.8	33.0	23.4	22.0	12.8	11.6	15.3
(WY)	(2001)	(2000)	(2000)	(2001)	(2002)	(2001)	(2001)	(2000)	(2001)	(2002)	(2002)	(2004)

03302030 POND CREEK AT PENDLETON ROAD NEAR LOUISVILLE, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	78,413.4		63,232.9		142	
ANNUAL MEAN	214		173		176	
HIGHEST ANNUAL MEAN					2002	
LOWEST ANNUAL MEAN					2001	
HIGHEST DAILY MEAN	3,180	May 28	3,080	Mar 28	6,220	Jan 4, 2000
LOWEST DAILY MEAN	9.4	Oct 17	5.5	Sep 19	1.7	Jul 17, 2001
ANNUAL SEVEN-DAY MINIMUM	11	Sep 18	6.3	Sep 13	4.1	Jul 11, 2001
MAXIMUM PEAK FLOW			3,820	Oct 19	10,500	Jan 4, 2000
MAXIMUM PEAK STAGE			18.29	Oct 19	19.82	Mar 26, 2002
10 PERCENT EXCEEDS	515		402		276	
50 PERCENT EXCEEDS	66		52		40	
90 PERCENT EXCEEDS	15		10		11	

e Estimated



03302050 BRIER CREEK AT PENDLETON ROAD NEAR LOUISVILLE, KY

LOCATION.--Lat 38°02'52", long 85°51'26", Jefferson County, Hydrologic Unit 05140102, at bridge on Pendleton Road, 0.4 mi below Headley Hollow, 10 miles south of Louisville, and at mile 1.64

DRAINAGE AREA.--4.01 mi².

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

GAGE.--Water-stage recorder with telemetry and crest-stage gage.

REMARKS.--Records good except those estimated, which are fair.

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 360 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 2	1145	1,010	5.17	May 19	2255	420	3.97
Mar 28	0245	*1,940	*6.31				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.02	16	18	52	4.6	5.4	7.4	6.5	0.18	0.05	0.02	0.76
2	0.02	164	12	28	4.8	4.7	7.7	4.6	0.26	0.03	0.01	0.41
3	0.01	25	8.8	86	7.1	4.4	6.3	3.7	1.6	0.02	0.01	0.27
4	0.01	14	7.0	44	6.2	4.4	5.6	3.1	0.86	0.02	0.01	0.20
5	0.01	9.1	5.9	40	5.7	4.1	5.1	2.7	0.50	0.02	0.01	0.16
6	0.01	7.0	6.6	94	5.3	3.8	4.6	2.4	0.38	0.01	0.01	0.13
7	0.01	5.9	34	32	12	4.8	5.2	2.1	0.33	0.01	0.02	0.10
8	0.01	4.8	16	46	28	6.8	4.7	1.9	0.29	0.01	0.01	0.09
9	0.01	4.2	29	19	15	5.3	4.1	1.7	0.30	0.01	0.01	0.08
10	0.01	3.9	24	13	11	4.9	3.9	1.5	0.29	0.01	0.01	0.06
11	0.01	64	16	9.8	8.5	4.8	3.6	1.3	0.51	0.03	0.01	0.05
12	0.01	45	12	8.1	7.3	5.8	4.1	1.3	0.88	0.06	0.01	0.04
13	0.02	13	9.0	17	17	5.2	4.3	1.0	0.66	0.15	0.00	0.03
14	0.02	8.0	7.0	16	18	4.8	3.7	2.9	0.51	0.16	0.00	0.03
15	0.02	6.1	5.9	10	13	4.5	3.3	2.2	0.42	0.12	0.00	0.03
16	0.01	5.1	5.3	8.5	9.5	4.3	3.1	1.7	0.35	0.14	0.01	0.02
17	0.01	4.5	4.7	6.7	e7.5	4.1	2.9	1.4	0.29	0.15	0.00	0.02
18	4.6	4.1	4.3	5.6	6.1	3.8	2.8	1.2	0.26	0.20	0.00	0.02
19	33	37	3.8	5.4	5.3	3.8	2.5	22	0.23	0.14	0.00	0.01
20	3.1	17	3.2	5.0	6.4	3.6	2.3	34	0.17	0.10	0.00	0.03
21	2.1	10	3.3	4.5	7.5	3.3	2.2	4.8	0.14	0.07	0.00	0.01
22	1.7	7.7	13	4.1	6.6	4.2	2.2	2.2	0.11	0.23	0.00	0.01
23	2.0	6.6	12	3.5	5.9	9.3	2.8	1.4	0.09	0.25	0.00	0.01
24	3.5	25	8.0	3.3	5.7	8.1	2.2	0.92	0.06	0.15	0.00	0.01
25	2.6	20	7.0	3.4	5.0	7.5	1.9	0.66	0.05	0.10	0.00	0.02
26	3.4	11	6.1	3.3	4.6	6.6	2.8	0.52	0.04	0.07	0.00	0.04
27	55	9.7	5.3	3.0	4.3	34	3.0	0.44	0.03	0.06	0.00	0.01
28	6.8	10	5.1	2.7	5.7	277	2.5	0.38	0.05	0.05	0.00	0.01
29	4.4	7.9	24	4.1	---	28	4.1	0.31	0.08	0.04	0.01	0.02
30	4.0	11	73	5.1	---	14	17	0.27	0.07	0.03	17	0.01
31	3.4	---	78	5.0	---	9.5	---	0.23	---	0.02	5.0	---
TOTAL	129.82	576.6	467.3	588.1	243.6	494.8	127.9	111.33	9.99	2.51	22.16	2.69
MEAN	4.19	19.2	15.1	19.0	8.70	16.0	4.26	3.59	0.33	0.08	0.71	0.09
MAX	55	164	78	94	28	277	17	34	1.6	0.25	17	0.76
MIN	0.01	3.9	3.2	2.7	4.3	3.3	1.9	0.23	0.03	0.01	0.00	0.01

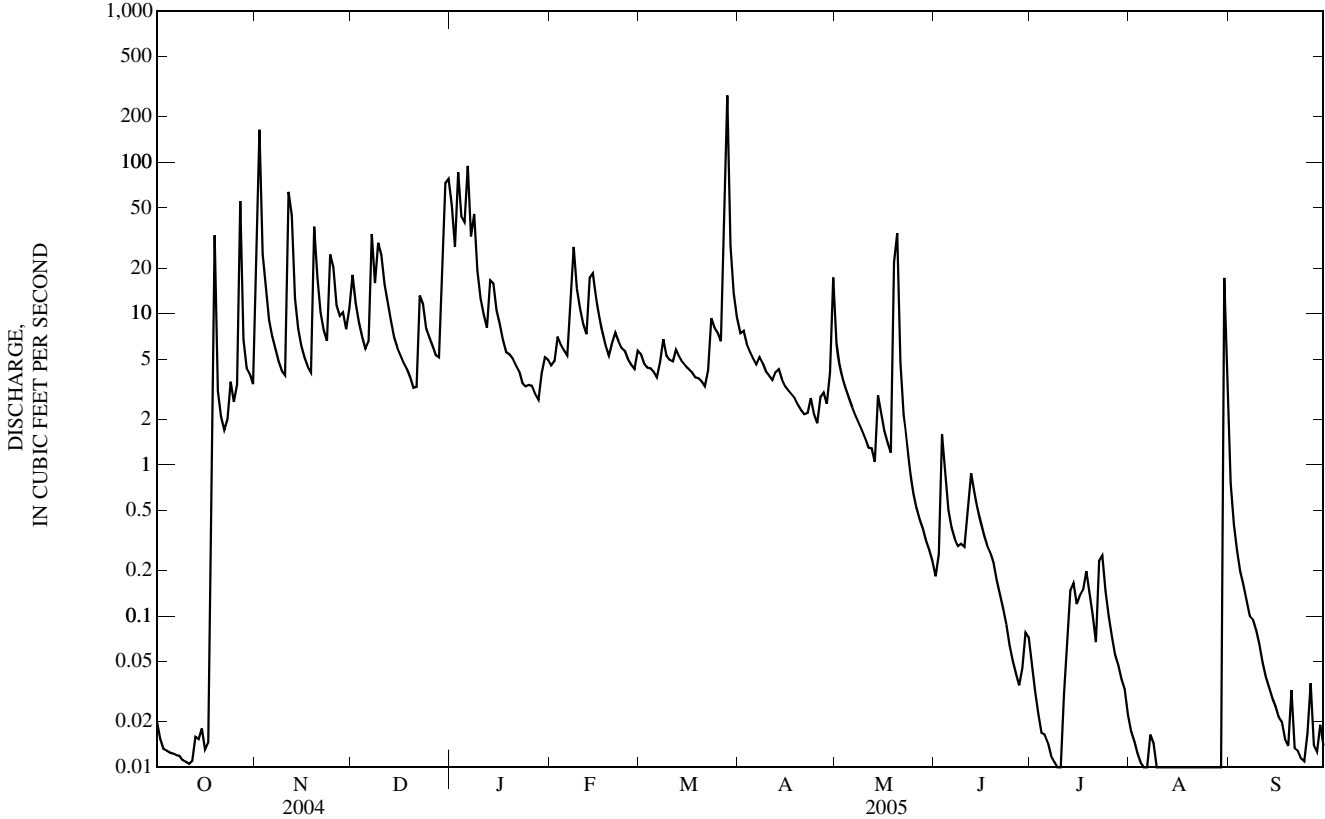
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

	1999	2000	2001	2002	2003	2004	2005
MEAN	1.53	6.41	8.47	12.4	11.9	11.6	8.72
MAX	4.19	19.2	15.1	23.2	30.7	25.0	17.2
(WY)	(2005)	(2005)	(2005)	(2000)	(2000)	(2002)	(2002)
MIN	0.00	0.00	0.68	1.32	5.27	4.19	1.91
(WY)	(2000)	(2000)	(2000)	(2001)	(2002)	(2001)	(2001)

03302050 BRIER CREEK AT PENDLETON ROAD NEAR LOUISVILLE, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	3,723.94		2,776.80		6.41	
ANNUAL MEAN	10.2		7.61		1.76	
HIGHEST ANNUAL MEAN					8.29	2004
LOWEST ANNUAL MEAN					1.76	2001
HIGHEST DAILY MEAN	540	May 28	277	Mar 28	685	Feb 18, 2000
LOWEST DAILY MEAN	0.01	Oct 3	0.00	Aug 13	0.00	Aug 21, 1999
ANNUAL SEVEN-DAY MINIMUM	0.01	Oct 3	0.00	Aug 17	0.00	Aug 21, 1999
MAXIMUM PEAK FLOW			1,940	Mar 28	3,330	May 28, 2004
MAXIMUM PEAK STAGE			6.31	Mar 28	7.61	Feb 18, 2000
10 PERCENT EXCEEDS	22		17		12	
50 PERCENT EXCEEDS	3.5		3.2		1.3	
90 PERCENT EXCEEDS	0.05		0.01		0.03	

e Estimated



03302110 OTTER CREEK AT OTTER CREEK PARK NEAR ROCK HAVEN, KY

LOCATION.--Lat 37°55'24", long 86°01'50", Meade County, Hydrologic Unit 05140104, at downstream side of bridge on Highway 1638, 1.4 mi east of Rock Haven, and at mile 3.3.

DRAINAGE AREA.--99.2 mi².

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

GAGE.--Water-stage recorder with telemetry and crest-stage gage. Datum of gage is 440.037 ft above NGVD of 1929.

REMARKS.--Records good.

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 28	0400	*4,420	*7.45	No other peak greater than base discharge.			

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	68	345	926	89	173	287	195	49	24	18	172
2	19	571	190	683	87	132	284	137	50	23	18	101
3	18	259	146	621	102	125	234	110	58	22	18	72
4	17	119	118	643	91	115	194	94	52	21	17	57
5	18	79	100	722	85	e114	171	83	45	22	e18	47
6	17	63	101	1,170	83	99	151	76	e50	21	e18	39
7	16	51	541	777	212	101	148	70	e47	20	e17	35
8	17	42	310	1,060	363	128	149	66	38	20	e17	33
9	18	36	405	596	244	107	129	62	36	21	17	31
10	20	34	451	405	195	93	116	58	36	19	16	29
11	17	212	311	311	158	96	108	54	37	34	16	27
12	18	764	232	256	148	95	111	51	62	85	17	25
13	21	203	183	305	277	87	141	48	54	49	17	24
14	22	124	139	438	420	79	115	58	48	34	17	23
15	24	93	117	272	303	72	100	71	65	42	22	23
16	21	79	105	232	241	68	91	53	45	28	22	22
17	18	68	97	189	187	67	85	48	37	31	22	22
18	45	61	90	162	158	64	83	46	34	28	23	22
19	89	225	83	154	137	64	80	70	33	23	22	21
20	36	180	73	141	140	62	74	1,280	31	23	20	23
21	27	118	72	130	215	56	72	379	32	30	24	21
22	23	96	117	119	172	71	73	195	31	55	19	20
23	25	87	145	101	145	195	76	137	29	38	18	19
24	44	168	109	91	138	151	66	106	26	24	19	18
25	31	178	98	89	126	126	61	91	25	20	19	18
26	25	123	92	87	115	111	69	81	26	18	34	23
27	70	104	81	76	108	621	81	71	24	16	33	20
28	41	107	77	67	146	2,500	63	65	34	15	26	19
29	31	91	144	79	---	1,050	118	60	27	15	41	18
30	28	104	785	115	---	618	448	55	24	17	857	17
31	25	---	1,330	104	---	399	---	51	---	20	570	---
TOTAL	860	4,507	7,187	11,121	4,885	7,839	3,978	4,021	1,185	858	2,032	1,041
MEAN	27.7	150	232	359	174	253	133	130	39.5	27.7	65.5	34.7
MAX	89	764	1,330	1,170	420	2,500	448	1,280	65	85	857	172
MIN	16	34	72	67	83	56	61	46	24	15	16	17

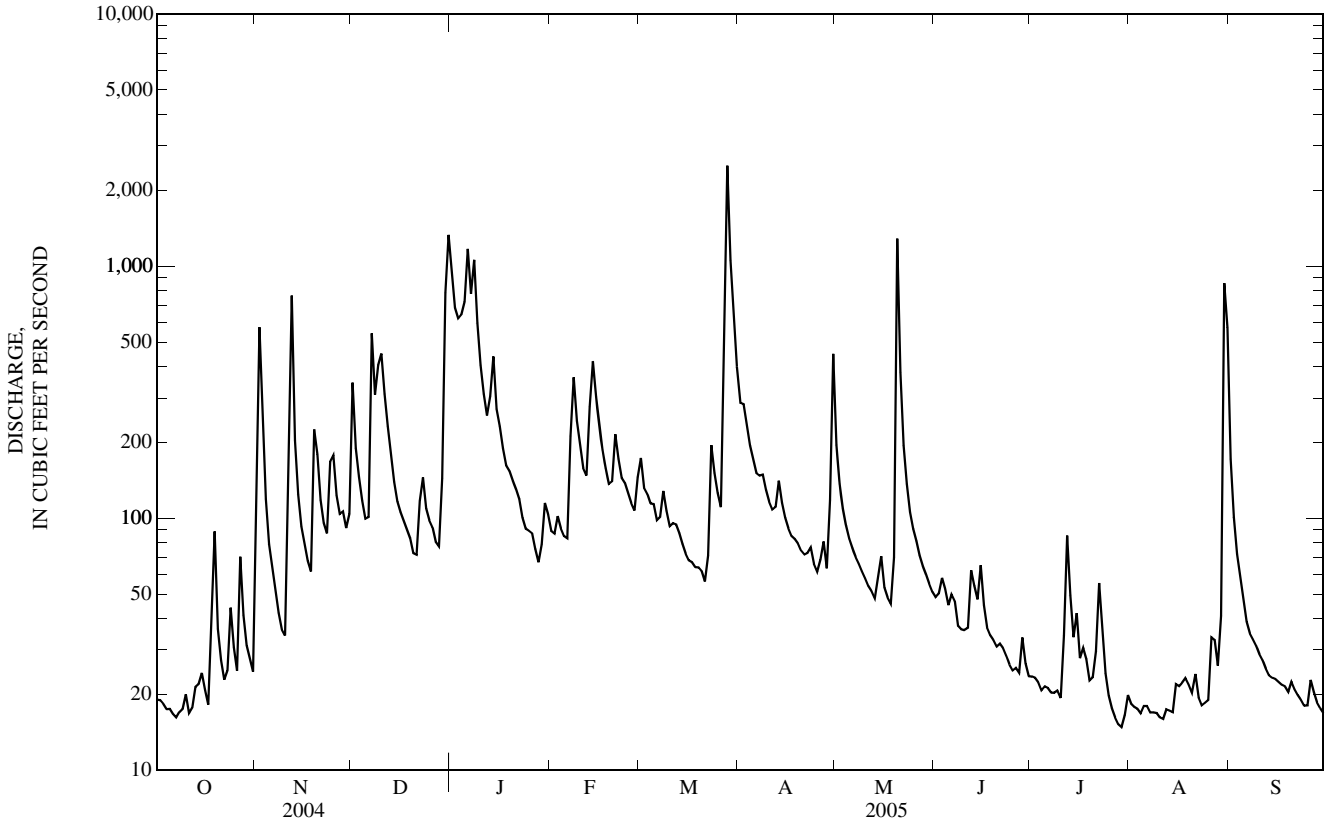
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	49.4	116	213	221	230	217	191	261	85.9	39.9	35.5	51.9
MAX	111	183	351	359	447	509	391	552	214	81.1	65.5	169
(WY)	(2003)	(2002)	(2002)	(2005)	(2003)	(2002)	(2002)	(2002)	(2004)	(2004)	(2005)	(2003)
MIN	15.5	11.9	58.6	33.4	126	130	45.6	46.7	36.1	21.5	10.9	5.82
(WY)	(2001)	(2000)	(2000)	(2001)	(2002)	(2001)	(2001)	(2001)	(2001)	(1999)	(1999)	(1999)

03302110 OTTER CREEK AT OTTER CREEK PARK NEAR ROCK HAVEN, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	63,668		49,514		146	
ANNUAL MEAN	174		136		60.3	
HIGHEST ANNUAL MEAN					216	2002
LOWEST ANNUAL MEAN					60.3	2001
HIGHEST DAILY MEAN	2,310	May 27	2,500	Mar 28	3,590	Mar 26, 2002
LOWEST DAILY MEAN	16	Oct 7	15	Jul 28	4.9	Sep 6, 1999
ANNUAL SEVEN-DAY MINIMUM	17	Oct 3	17	Aug 7	5.4	Sep 10, 1999
MAXIMUM PEAK FLOW			4,420	Mar 28	8,810	Jan 4, 2000
MAXIMUM PEAK STAGE			7.45	Mar 28	8.63	Mar 26, 2002
10 PERCENT EXCEEDS	395		293		335	
50 PERCENT EXCEEDS	93		71		59	
90 PERCENT EXCEEDS	22		19		17	

e Estimated



SINKING CREEK BASIN

03303205 SINKING CREEK NEAR LODIBURG, KY

LOCATION.--Lat 37°52'06", long 86°23'16", Breckinridge County, Hydrologic Unit 05140104, on bridge located 2.3 miles south of Lodiburg on County Road #86, 0.75 mile downstream from Boiling Spring.

DRAINAGE AREA.--125 mi².

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--May 27, 2004 to current year.

GAGE.--Water-stage recorder and four parameter water-quality monitor with telemetry. Datum of gage is 410 ft above NGVD of 1929, (from topographic map).

REMARKS.--Records rated good.

COOPERATION.--Kentucky Department of Agriculture.

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	13	160	506	1,700	153	304	507	432	58	21	16	399
2	13	863	473	1,180	138	245	436	253	53	20	16	147
3	13	886	318	1,320	159	210	414	185	51	19	16	90
4	12	300	239	1,310	168	196	359	154	47	18	16	61
5	12	151	188	1,470	152	186	314	132	42	17	15	37
6	12	103	159	2,560	146	171	275	120	38	17	15	30
7	12	71	670	1,760	201	164	247	109	35	17	15	26
8	12	50	748	2,050	769	238	233	101	33	16	15	23
9	12	37	427	1,220	566	229	212	93	32	16	14	21
10	12	30	700	829	441	185	188	85	30	16	14	20
11	12	364	504	652	369	174	170	78	29	16	14	19
12	12	1,600	424	572	320	164	166	70	31	253	14	18
13	14	549	341	637	425	153	391	63	52	170	13	17
14	14	259	260	1,050	878	137	304	79	52	47	14	16
15	14	170	212	678	641	126	211	136	128	21	14	16
16	14	129	184	533	484	119	173	85	69	16	14	15
17	13	101	158	431	388	115	155	64	38	19	15	15
18	21	84	139	348	325	110	141	54	32	16	18	15
19	108	352	126	296	272	105	129	114	29	15	17	14
20	53	524	111	259	243	100	118	1,810	27	11	15	15
21	16	298	103	227	345	93	109	789	25	9.3	14	14
22	13	197	171	200	345	90	102	371	24	22	13	14
23	12	156	315	175	283	110	95	239	23	33	13	13
24	14	219	242	154	250	156	86	178	22	26	12	13
25	15	440	199	145	223	133	79	145	21	22	12	13
26	14	298	180	138	197	125	78	123	21	20	66	14
27	15	216	159	125	177	466	80	107	20	19	48	14
28	16	209	142	112	196	3,910	70	94	136	18	20	13
29	15	189	205	112	---	2,200	97	84	53	18	394	13
30	16	187	1,250	158	---	980	622	76	24	17	790	12
31	17	---	2,990	178	---	692	---	67	---	17	1,490	---
MEAN	18.1	306	414	728	330	400	219	209	42.5	31.7	102	38.2
MAX	108	1,600	2,990	2,560	878	3,910	622	1,810	136	253	1,490	399
MIN	12	30	103	112	138	90	70	54	20	9.3	12	12

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

MEAN	18.1	306	414	728	330	400	219	209	195	56.6	85.7	27.1
MAX	18.1	306	414	728	330	400	219	209	348	81.4	102	38.2
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2005)	(2005)
MIN	18.1	306	414	728	330	400	219	209	42.5	31.7	69.2	16.0
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)

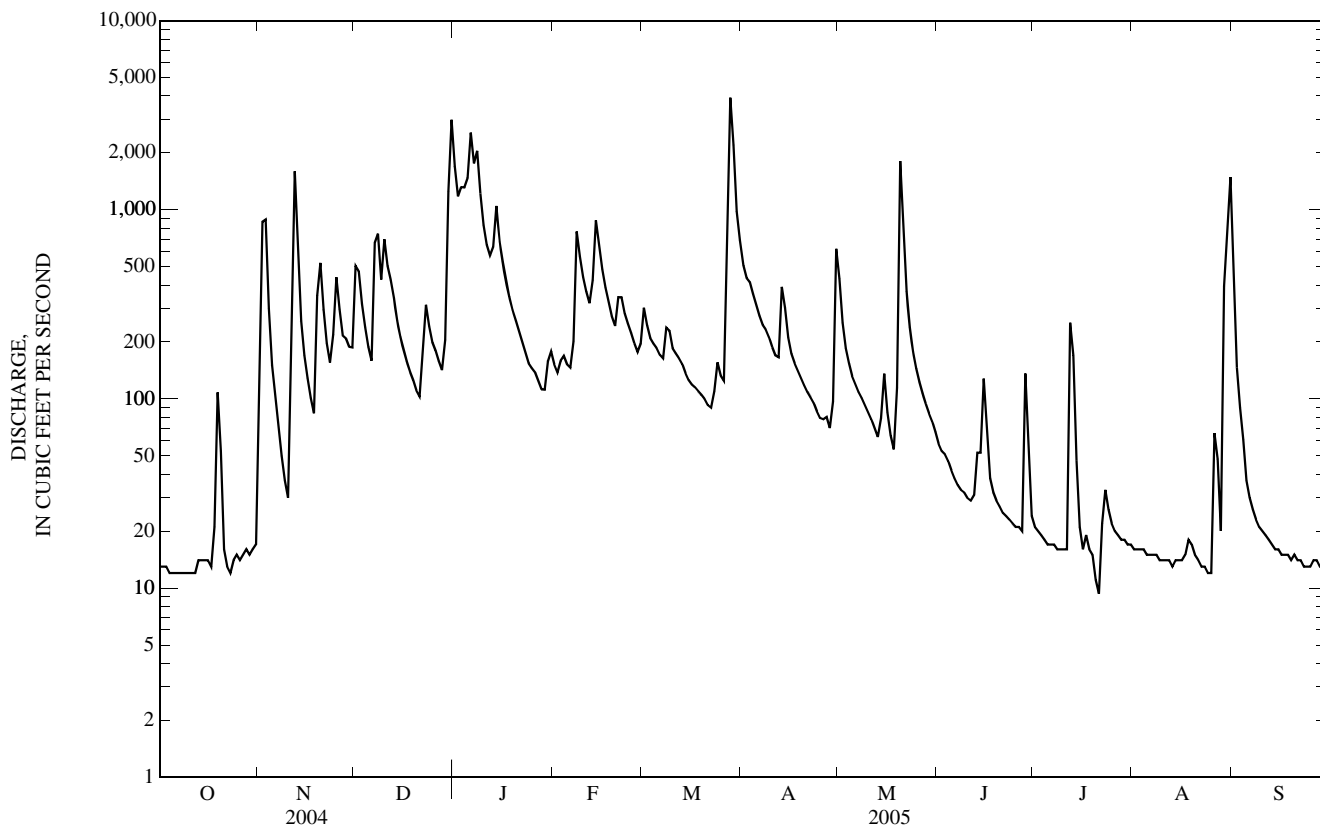
03303205 SINKING CREEK NEAR LODIBURG, KY—Continued

SUMMARY STATISTICS

FOR 2005 WATER YEAR

WATER YEARS 2004 - 2005

ANNUAL MEAN	237		237	
HIGHEST ANNUAL MEAN			237	2005
LOWEST ANNUAL MEAN			237	2005
HIGHEST DAILY MEAN	3,910	Mar 28	4,140	May 31, 2004
LOWEST DAILY MEAN	9.3	Jul 21	9.3	Jul 21, 2005
ANNUAL SEVEN-DAY MINIMUM	12	Oct 4	12	Oct 4, 2004
MAXIMUM PEAK FLOW	4,370	Mar 28	4,370	Mar 28, 2005
MAXIMUM PEAK STAGE	21.75	Mar 28	21.75	Mar 28, 2005
10 PERCENT EXCEEDS	556		556	
50 PERCENT EXCEEDS	110		110	
90 PERCENT EXCEEDS	14		14	



WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 27, 2004 to current year.

COOPERATION.--Kentucky Department of Agriculture.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 2004 to current year.

pH: May 2004 to current year.

WATER TEMPERATURES: May 2004 to current year.

DISSOLVED OXYGEN: May 2004 to current year.

INSTRUMENTATION.--Four parameter water-quality monitor with telemetry.

REMARKS.--

SPECIFIC CONDUCTANCE.--Records rated good. Missing record Feb. 2, Mar. 17, Apr. 11, 14, 19, May 20, June 1-8, July 15, 25, and Sept. 7, 17, 2005.

PH.--Records rated excellent. Missing periods Feb. 2, Mar. 17, Apr. 14, 19, June 6-8, July 15, 25, and Sept. 7, 17, 2005.

WATER TEMPERATURE.--Records rated excellent. Missing record Dec. 22, 2004, Feb. 2, Mar. 17, Apr. 4, May 19-20, June 6-7, 27-28, 2005.

DISSOLVED OXYGEN.--Records rated poor. Missing periods Oct. 19-25, Nov 3-19, Dec. 7-10, 12-17, 2004, Jan. 12 to Feb. 15, Feb. 17 to Mar. 17, Mar. 28 to Apr. 5, Apr. 14-15, 17-24, 28-29, May 4-17, 19-31, June 1-8, July 14-15, 25-26, Aug. 26 to Sept. 15, and Sept 17, 26-27, 2005.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 705 microsiemens, Oct. 16, 2004; minimum recorded, 174 microsiemens, May 30, 2004.

pH: Maximum recorded, 8.3 units, July 9, 2004; minimum recorded, 6.7 units, July 31, 2004.

WATER TEMPERATURES: Maximum recorded, 25.1 C, July 19, 2004; minimum recorded, 8.7 C, Dec. 23, 2004.

DISSOLVED OXYGEN: Maximum recorded, 14.3 mg/L, Mar. 21, 2005; minimum recorded, 4.1 mg/L, Aug. 25, 2005.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 705 microseimens, Oct. 16, 2004; minimum recorded, 176 microseimens, Dec. 31, 2005.

pH.--Maximum recorded, 8.0 units, Mar. 19-22, Apr. 20-29, 2005; minimum recorded, 6.8 units, May 8, 9, 15, and June 29, 2005.

WATER TEMPERATURE.--Maximum recorded, 20.6°C, Aug. 1, 20, 21, 2005; minimum recorded 8.7°C, Dec. 23, 2004.

DISSOLVED OXYGEN.--Maximum recorded, 14.3 mg/L, Mar. 21, 2005; minimum recorded, 4.1 mg/L, Aug. 25, 2005.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	667	655	661	621	487	577	496	417	464	345	185	255
2	672	660	667	511	326	417	417	403	407	377	345	362
3	675	665	671	360	331	347	441	409	424	384	367	373
4	679	668	675	362	340	349	468	441	456	380	359	367
5	682	670	678	397	362	378	486	468	478	385	350	362
6	685	674	681	476	397	430	499	481	492	364	269	315
7	688	676	683	484	435	464	500	339	437	350	271	311
8	689	677	685	458	440	450	364	308	327	349	296	320
9	691	681	688	479	457	467	376	342	367	377	304	341
10	692	683	689	506	471	485	364	310	330	412	377	397
11	695	685	690	489	321	450	351	330	342	429	412	421
12	696	687	693	363	244	278	395	351	373	439	429	434
13	695	686	691	308	266	286	427	395	411	443	416	437
14	698	689	694	359	308	334	453	427	441	416	348	376
15	699	688	694	399	359	383	469	453	461	379	350	362
16	705	694	699	427	399	413	482	469	477	414	376	393
17	703	688	693	455	427	444	488	482	486	429	408	420
18	699	654	676	474	454	465	494	488	491	448	429	439
19	685	604	656	478	429	458	499	494	496	460	448	456
20	605	578	592	460	388	413	503	499	501	462	458	461
21	593	575	583	415	389	400	506	502	504	465	462	464
22	607	586	597	449	415	432	504	490	497	467	465	466
23	637	601	619	477	449	464	494	444	466	471	467	469
24	673	633	658	489	476	482	444	436	438	475	470	472
25	673	633	652	491	412	439	441	437	438	481	474	477
26	633	617	626	447	412	430	450	441	446	483	475	481
27	625	609	614	467	447	457	461	450	456	485	482	483
28	611	601	606	485	467	476	472	461	467	489	484	486
29	610	600	605	494	481	486	478	461	473	488	484	486
30	611	602	607	499	488	495	461	198	376	488	482	487
31	605	600	602	---	---	---	198	176	183	482	460	471
MONTH	705	575	656	621	244	428	506	176	432	489	185	414

03303205 SINKING CREEK NEAR LODIBURG, KY—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.4	7.3	9.0	6.9	6.2	6.5	11.9	11.1	11.6	11.8	11.2	11.5
2	10.7	6.8	8.4	6.8	5.2	6.3	11.7	11.3	11.5	11.3	11.0	11.1
3	11.3	7.3	8.8	---	---	---	11.5	11.3	11.4	11.1	10.7	11.0
4	11.0	7.2	8.7	---	---	---	11.7	11.3	11.6	11.0	10.6	10.9
5	11.2	7.2	8.6	---	---	---	11.7	11.2	11.5	10.8	10.5	10.7
6	11.0	6.1	7.8	---	---	---	11.6	11.2	11.4	11.2	10.5	11.0
7	11.8	6.0	8.5	---	---	---	---	---	---	11.2	10.8	11.0
8	11.5	6.0	8.5	---	---	---	---	---	---	11.2	10.9	11.1
9	11.5	6.5	8.6	---	---	---	---	---	---	11.1	9.9	10.7
10	11.7	6.3	8.6	---	---	---	---	---	---	10.4	8.6	9.8
11	11.5	6.0	8.2	---	---	---	10.1	9.4	9.9	9.9	7.9	8.9
12	8.6	6.1	7.2	---	---	---	---	---	---	---	---	---
13	8.2	5.9	7.0	---	---	---	---	---	---	---	---	---
14	10.4	6.3	7.9	---	---	---	---	---	---	---	---	---
15	9.5	6.0	7.4	---	---	---	---	---	---	---	---	---
16	11.4	6.0	8.3	---	---	---	---	---	---	---	---	---
17	10.8	6.1	8.1	---	---	---	---	---	---	---	---	---
18	7.9	6.0	6.8	---	---	---	10.6	10.4	10.5	---	---	---
19	---	---	---	---	---	---	10.9	10.5	10.7	---	---	---
20	---	---	---	10.7	10.4	10.6	11.1	10.7	11.0	---	---	---
21	---	---	---	10.6	10.3	10.4	11.4	10.9	11.2	---	---	---
22	---	---	---	10.9	10.6	10.7	11.6	11.1	11.4	---	---	---
23	---	---	---	10.9	10.1	10.7	12.3	11.3	11.9	---	---	---
24	---	---	---	10.9	9.8	10.6	12.0	11.7	11.9	---	---	---
25	---	---	---	11.4	10.8	11.2	12.0	11.6	11.8	---	---	---
26	9.5	7.5	8.3	11.2	10.9	11.1	11.8	10.4	11.4	---	---	---
27	9.3	7.1	7.9	11.2	10.7	11.1	11.0	9.5	10.3	---	---	---
28	9.2	6.9	7.7	11.3	10.7	11.2	10.1	8.5	9.3	---	---	---
29	9.8	6.7	7.9	11.5	11.2	11.4	---	---	---	---	---	---
30	9.4	6.4	7.5	11.5	11.0	11.3	---	---	---	---	---	---
31	8.5	6.3	7.1	---	---	---	12.2	11.7	12.0	---	---	---
MONTH	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	8.6	7.8	8.3
2	---	---	---	---	---	---	---	---	---	8.5	7.9	8.3
3	---	---	---	---	---	---	---	---	---	8.8	7.3	8.2
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	10.2	10.0	10.1	---	---	---
7	---	---	---	---	---	---	10.4	9.8	10.2	---	---	---
8	---	---	---	---	---	---	10.4	9.9	10.2	---	---	---
9	---	---	---	---	---	---	10.5	10.0	10.3	---	---	---
10	---	---	---	---	---	---	10.5	10.1	10.3	---	---	---
11	---	---	---	---	---	---	10.4	10.0	10.1	---	---	---
12	---	---	---	---	---	---	10.1	9.6	9.9	---	---	---
13	---	---	---	---	---	---	10.3	9.6	9.9	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	9.0	7.9	8.5	---	---	---	10.0	8.4	9.5	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	13.1	11.4	12.2	---	---	---	9.0	8.3	8.6
19	---	---	---	13.1	11.7	12.2	---	---	---	---	---	---
20	---	---	---	13.9	11.8	12.6	---	---	---	---	---	---
21	---	---	---	14.3	12.1	12.9	---	---	---	---	---	---
22	---	---	---	13.7	12.1	12.7	---	---	---	---	---	---
23	---	---	---	13.4	12.1	12.6	---	---	---	---	---	---
24	---	---	---	13.3	12.2	12.7	---	---	---	---	---	---
25	---	---	---	13.9	12.3	12.9	9.8	7.9	8.8	---	---	---
26	---	---	---	13.5	12.2	12.8	9.1	7.9	8.7	---	---	---
27	---	---	---	13.3	11.9	12.5	9.4	7.3	8.4	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	9.1	8.0	8.8	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	FEBRUARY			MARCH			APRIL			MAY		

SINKING CREEK BASIN

03303205 SINKING CREEK NEAR LODIBURG, KY—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	JUNE			JULY			AUGUST			SEPTEMBER		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	9.6	7.7	8.5	13.1	7.6	9.8	---	---	---			
2	---	---	---	10.3	8.1	9.0	12.9	7.8	9.6	---	---	---			
3	---	---	---	10.7	8.5	9.3	13.4	7.0	9.8	---	---	---			
4	---	---	---	11.1	8.4	9.4	14.0	7.0	9.7	---	---	---			
5	---	---	---	10.5	8.1	9.2	13.6	7.5	9.8	---	---	---			
6	---	---	---	11.3	8.6	9.6	13.3	6.2	9.2	---	---	---			
7	---	---	---	11.5	8.6	9.7	11.2	6.2	8.5	---	---	---			
8	---	---	---	11.8	8.7	9.8	14.0	4.2	8.2	---	---	---			
9	11.3	9.8	10.4	12.5	8.7	10.0	13.9	4.9	8.9	---	---	---			
10	11.2	9.9	10.4	12.3	8.8	10.2	13.7	6.6	9.3	---	---	---			
11	11.1	9.9	10.3	11.1	8.5	9.6	13.2	4.9	8.7	---	---	---			
12	10.6	9.8	10.0	11.1	8.6	9.8	13.3	5.3	8.7	---	---	---			
13	10.7	9.8	10.1	10.0	8.0	9.0	13.0	5.1	8.3	---	---	---			
14	10.7	10.0	10.2	---	---	---	13.6	4.8	8.0	---	---	---			
15	10.4	9.9	10.1	---	---	---	9.8	4.6	7.1	---	---	---			
16	10.4	9.7	10.1	9.1	8.0	8.6	9.6	5.2	7.1	7.3	5.8	6.5			
17	10.2	9.6	9.8	9.4	8.4	8.7	9.2	4.6	6.5	---	---	---			
18	10.2	9.6	9.9	9.7	8.6	9.1	8.9	4.6	6.5	8.3	5.8	7.1			
19	10.4	9.5	9.9	9.9	8.5	9.1	10.3	5.9	7.5	8.6	6.3	7.3			
20	10.5	9.5	9.9	9.9	8.0	9.2	10.0	5.6	7.0	8.7	6.1	7.2			
21	10.8	9.5	10.0	10.9	8.2	9.3	9.8	5.4	7.0	9.0	5.5	7.3			
22	10.9	9.5	10.0	10.3	8.1	9.3	9.6	5.0	6.7	8.5	5.4	7.1			
23	11.1	9.4	10.0	10.6	8.1	9.3	9.2	4.6	6.3	8.9	5.4	6.9			
24	11.5	9.6	10.3	11.4	8.8	9.8	8.6	4.3	6.0	8.4	5.2	6.7			
25	11.7	9.6	10.3	---	---	---	8.4	4.1	5.7	7.1	5.2	6.0			
26	11.9	9.5	10.3	---	---	---	---	---	---	---	---	---			
27	11.6	9.5	10.3	12.0	9.2	10.5	---	---	---	---	---	---			
28	10.4	8.9	9.6	12.7	9.0	10.5	---	---	---	9.9	6.0	7.6			
29	9.2	7.3	8.0	13.3	8.8	10.3	---	---	---	10.2	6.4	8.0			
30	8.5	7.4	7.8	13.1	8.5	10.1	---	---	---	10.1	7.3	8.2			
31	---	---	---	13.5	8.2	10.1	---	---	---	---	---	---			

MONTH

YEAR

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03303280 OHIO RIVER AT CANNELTON DAM, KY

LOCATION.--Lat 37°53'58", long 86°42'20", Hancock County, Hydrologic Unit 05140201, at Cannelton Dam, 0.7 mi upstream from Indian Creek, 3.3 mi upstream from Lead Creek, and at mile 720.8.

DRAINAGE AREA.--97,000 mi², approximately.

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorders with telemetry. Datum of headwater gage 0.4 mi upstream is 374.0 ft Ohio River datum. Datum of tailwater gage 0.4 mi downstream is 26.0 ft lower.

REMARKS.--Records good except those below 20,000 ft³/s, which are poor and extreme events, which can be affected by high flows on the Mississippi River. All extreme high flow periods should be scrutinized for this reason. Daily discharge computed from head, gate openings, and lockages furnished by U.S. Army Corps of Engineers, Louisville District. Flow regulated by Ohio River system of locks, dams, and reservoirs upstream from station.

COOPERATION.--U.S. Army Corps of Engineers, Louisville District.

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	131,000	104,000	186,000	270,000	186,000	156,000	432,000	248,000	65,000	62,500	24,300	117,000
2	149,000	124,000	227,000	253,000	184,000	163,000	441,000	261,000	72,200	40,700	36,100	95,300
3	145,000	157,000	327,000	231,000	173,000	194,000	445,000	291,000	47,200	69,200	36,100	63,200
4	118,000	144,000	361,000	282,000	181,000	217,000	447,000	292,000	44,800	23,400	36,100	63,400
5	91,500	145,000	384,000	e350,000	178,000	205,000	453,000	277,000	44,700	21,700	26,900	44,800
6	64,200	200,000	379,000	451,000	169,000	174,000	461,000	239,000	45,100	41,500	14,100	21,400
7	57,100	218,000	272,000	508,000	162,000	160,000	464,000	179,000	53,000	47,800	15,400	32,800
8	59,600	211,000	255,000	540,000	169,000	165,000	456,000	139,000	45,500	35,500	24,200	23,600
9	62,100	186,000	247,000	555,000	184,000	186,000	e400,000	118,000	53,700	25,500	23,600	14,500
10	46,000	157,000	247,000	566,000	192,000	227,000	e320,000	108,000	55,000	76,200	18,200	14,300
11	53,100	136,000	247,000	577,000	195,000	258,000	263,000	91,800	45,000	64,900	25,700	14,800
12	45,700	181,000	326,000	584,000	223,000	278,000	234,000	87,600	45,900	54,200	28,100	31,900
13	49,700	211,000	345,000	588,000	244,000	274,000	213,000	87,200	67,900	13,000	11,000	12,200
14	52,400	198,000	364,000	588,000	264,000	248,000	184,000	79,600	88,800	49,400	26,700	13,800
15	52,600	178,000	366,000	582,000	270,000	209,000	165,000	80,000	50,700	36,600	20,300	24,100
16	50,900	154,000	270,000	576,000	264,000	184,000	145,000	117,000	36,500	3,870	16,000	18,700
17	65,900	134,000	238,000	567,000	260,000	167,000	124,000	114,000	39,800	42,500	20,300	9,940
18	76,000	117,000	191,000	558,000	271,000	152,000	116,000	113,000	47,600	47,600	19,200	28,100
19	139,000	115,000	157,000	549,000	275,000	140,000	99,900	102,000	39,000	55,100	27,800	27,000
20	169,000	153,000	140,000	536,000	270,000	127,000	92,900	144,000	38,300	59,500	30,400	16,500
21	189,000	172,000	132,000	514,000	252,000	125,000	86,000	157,000	42,600	64,900	43,200	27,400
22	193,000	185,000	121,000	477,000	221,000	122,000	94,100	153,000	23,200	70,200	34,800	18,300
23	171,000	185,000	117,000	423,000	187,000	127,000	89,200	162,000	26,600	47,400	35,200	20,900
24	132,000	172,000	146,000	e300,000	186,000	137,000	123,000	155,000	35,900	45,200	19,400	24,300
25	111,000	160,000	177,000	241,000	195,000	156,000	161,000	127,000	27,200	38,400	14,700	11,900
26	111,000	159,000	201,000	219,000	206,000	179,000	199,000	104,000	24,400	30,000	31,300	26,400
27	111,000	160,000	213,000	202,000	195,000	200,000	217,000	94,200	30,000	38,700	30,500	38,700
28	111,000	175,000	209,000	190,000	173,000	276,000	233,000	92,300	23,000	43,900	47,300	28,600
29	111,000	186,000	189,000	191,000	---	353,000	240,000	83,300	21,300	35,800	47,200	47,400
30	103,000	188,000	180,000	187,000	---	e390,000	246,000	77,300	27,500	42,700	57,700	60,200
31	93,400	---	226,000	181,000	---	e410,000	---	72,600	---	23,800	123,000	---
TOTAL	3,114,200	4,965,000	7,440,000	12,836,000	5,929,000	6,359,000	7,644,100	4,445,900	1,307,400	1,351,670	964,800	991,440
MEAN	100,500	165,500	240,000	414,100	211,800	205,100	254,800	143,400	43,580	43,600	31,120	33,050
MAX	193,000	218,000	384,000	588,000	275,000	410,000	464,000	292,000	88,800	76,200	123,000	117,000
MIN	45,700	104,000	117,000	181,000	162,000	122,000	86,000	72,600	21,300	3,870	11,000	9,940

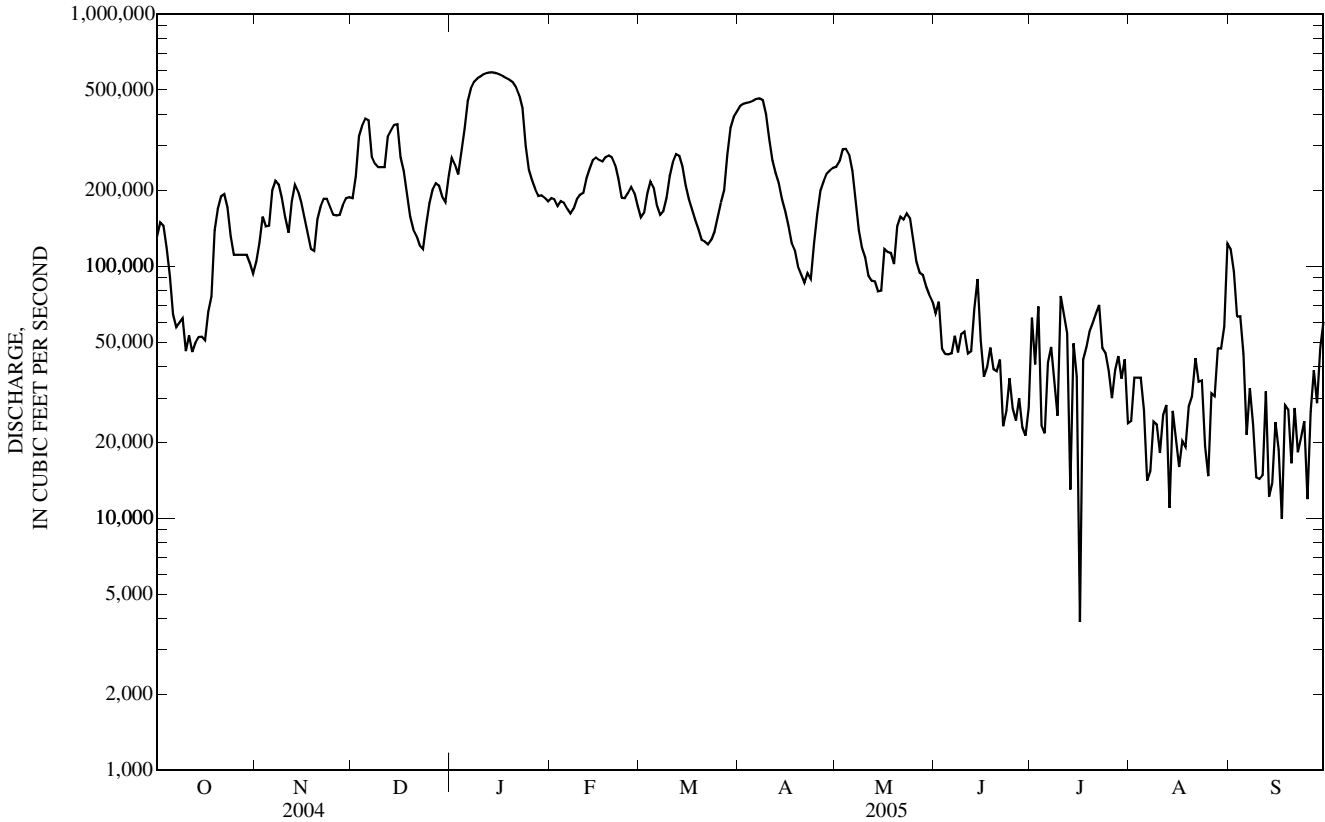
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2005, BY WATER YEAR (WY)

MEAN	58,150	96,750	157,800	174,000	205,200	233,600	207,500	169,600	112,200	68,080	54,950	51,530
MAX	155,800	242,100	334,000	414,100	358,600	443,300	360,400	415,100	239,700	125,500	148,200	219,700
(WY)	(1980)	(2004)	(1979)	(2005)	(1994)	(1997)	(1994)	(1996)	(2003)	(1998)	(1980)	(2004)
MIN	13,980	24,350	47,120	36,500	94,740	125,500	72,990	46,020	16,490	18,760	13,130	11,630
(WY)	(1992)	(1999)	(1999)	(1977)	(1992)	(1983)	(1986)	(1976)	(1988)	(1988)	(1988)	(1999)

03303280 OHIO RIVER AT CANNELTON DAM, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1976 - 2005	
ANNUAL TOTAL	71,513,300		57,348,510		132,100	
ANNUAL MEAN	195,400		157,100		72,150	
HIGHEST ANNUAL MEAN					200,300	2004
LOWEST ANNUAL MEAN					72,150	1988
HIGHEST DAILY MEAN	548,000	Jan 9	588,000	Jan 13	735,000	Mar 8, 1997
LOWEST DAILY MEAN	28,800	Aug 20	3,870	Jul 16	3,180	Aug 28, 1995
ANNUAL SEVEN-DAY MINIMUM	37,900	Aug 14	17,900	Sep 8	7,650	Jul 12, 1988
MAXIMUM PEAK FLOW			590,000		736,000	
MAXIMUM PEAK STAGE			46.05		52.42	
10 PERCENT EXCEEDS	411,000		347,000		285,000	
50 PERCENT EXCEEDS	163,000		132,000		95,300	
90 PERCENT EXCEEDS	62,500		24,400		23,500	

e Estimated



03303280 OHIO RIVER AT CANNELTON DAM, KY—Continued

(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to 1986 and 1996 to current water year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--October 1974 to September 1986 (discontinued).

WATER TEMPERATURES.--October 1974 to September 1986 (discontinued).

REMARKS.--Flow regulated by Ohio River system of locks, dams, and reservoirs.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--Maximum daily recorded, 691 microsiemens, Nov. 14, 1978; minimum daily recorded, 176 microsiemens, Dec. 15, 1978.

WATER TEMPERATURES.--Maximum daily recorded, 30.0°C, July 23, 24, 1977, Aug. 5, 1982, several days in July and August; minimum daily recorded, 0.0°C, on several days during most winter months.

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)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
NOV												
17...	1230	Environmental	140,000	0.100	0.075	745	10.3	7.4	363	12.5	140	38.9
19...	1338	Equipment Blank	--	<.004	<.004	--	--	--	--	--	--	<0.02
DEC												
13...	1400	Environmental	292,000	.076	.057	742	12.6	7.8	319	8.5	130	36.4
JAN												
13...	1510	Environmental	608,000	.087	.065	745	9.6	7.4	256	7.5	110	30.1
13...	1518	Field Blank	--	<.004	<.004	--	--	--	--	--	--	--
25...	1310	Environmental	247,000	.071	.051	747	13.9	7.9	300	3.5	120	33.9
MAR												
08...	1340	Environmental	162,000	.045	.033	737	13.6	7.5	352	5.5	130	35.8
APR												
25...	1230	Environmental	164,000	.052	.039	--	--	--	--	--	140	36.9
25...	1240	Replicate	--	.053	.040	--	--	--	--	--	130	36.4
MAY												
09...	1330	Environmental	117,000	.080	.061	752	9.5	7.4	304	14.5	120	30.4
09...	1338	Field Blank	--	--	--	--	--	--	--	--	--	--
23...	1210	Environmental	163,000	.078	.060	746	8.2	7.4	346	18.5	130	32.9
23...	1218	Field Blank	--	--	--	--	--	--	--	--	--	.05
JUN												
07...	1320	Environmental	45,000	.063	.047	750	--	8.3	411	24.0	160	40.5
07...	1328	Field Blank	--	--	--	--	--	--	--	--	--	--
24...	1020	Environmental	36,300	.071	.052	745	9.3	8.2	393	27.0	150	38.7
24...	1030	Replicate	--	.070	.052	--	--	--	--	--	150	38.9
JUL												
13...	1100	Environmental	3,030	.058	.042	745	7.6	7.6	459	28.0	170	41.4
13...	1108	Field Blank	--	--	--	--	--	--	--	--	--	--
AUG												
09...	1240	Environmental	20,900	.064	.046	754	8.4	8.0	503	30.5	180	45.4
SEP												
22...	1120	Environmental	16,400	.069	.050	754	6.8	7.7	467	27.0	150	40.2

03303280 OHIO RIVER AT CANNELTON DAM, KY—Continued

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

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO ₃ (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)
NOV 17...	10.3	3.04	15.5	79	96	17.3	0.1	6.37	59.5	217	0.23	0.49	E0.04
19...	<0.008	<0.010	<0.20	--	--	0.49	<.01	0.08	<0.01	--	--	--	<.010
DEC 13...	9.22	2.38	11.2	82	100	12.8	.1	7.01	47.9	193	.18	.63	<.04
JAN 13...	7.40	2.55	11.5	57	70	13.9	.1	6.38	39.8	158	.24	.92	E.02
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	9.00	2.41	10.9	73	89	15.2	.1	6.83	41.6	172	.24	.56	E.03
MAR 08...	10.8	1.92	15.8	67	82	21.0	.1	6.50	57.7	206	.19	.32	E.04
APR 25...	10.5	2.19	15.8	71	86	20.0	.2	5.29	54.0	195	.17	.34	<.04
25...	10.4	2.09	15.6	76	93	20.1	.2	5.23	54.0	204	.18	.33	<.04
MAY 09...	9.48	2.11	12.0	64	78	14.6	.1	6.02	48.4	175	.17	.34	<.04
09...	--	--	--	--	--	--	--	--	--	--	--	--	<.010
23...	10.8	2.51	12.9	65	79	15.8	.2	3.71	45.4	189	.26	.58	E.04
23...	E.004	<.010	<.20	--	--	1.02	<.01	.05	<.01	--	--	--	--
JUN 07...	13.9	2.48	19.0	95	116	24.3	.2	.30	70.0	247	.29	.39	<.04
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	13.0	2.42	18.9	83	101	23.9	.2	.32	60.3	227	.43	.41	E.03
24...	13.0	2.44	18.9	89	109	23.9	.2	.33	60.3	211	.44	.44	E.03
JUL 13...	15.1	2.66	26.9	85	104	31.7	.2	.53	76.8	261	.52	.37	.08
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 09...	17.2	3.17	31.3	83	101	37.1	.2	.43	91.3	286	.36	.37	E.04
SEP 22...	13.2	3.28	28.3	71	87	34.6	.3	1.52	80.1	281	1.1	.31	<.04

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

Date	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)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Arsenic water, fltrd, ug/L (01000)
NOV 17...	0.84	0.016	0.10	0.043	0.061	0.15	1.5	<.1	1.5	3.2	E2.8	E2.1	0.6
19...	<.016	<.002	<.02	<.006	--	--	<.01	<.1	<.01	E0.2	--	--	<.2
DEC 13...	.97	.014	.25	.033	.046	.22	2.8	<.1	2.7	2.6	2.9	1.1	.5
JAN 13...	1.06	.012	.48	.018	.028	.32	6.2	.1	6.0	2.8	3.3	1.8	.6
13...	--	--	.02	--	--	--	.3	<.1	.3	E.3	--	--	--
25...	1.07	.012	.30	.024	.031	.17	3.8	.4	3.4	2.7	E2.1	E0.6	.4
MAR 08...	1.04	.010	.12	.016	.019	.09	1.4	<.1	1.3	1.6	1.2	1.6	.2
APR 25...	.95	.008	.14	.013	.020	.07	1.0	<.1	1.0	1.9	5.7	7.8	.5
25...	.96	E.007	.15	.013	.018	.08	1.3	<.1	1.3	2.0	6.8	8.5	.4
MAY 09...	1.06	.018	.10	.016	.022	.09	.8	<.1	.7	2.4	E1.1	<.1	.3
09...	<.016	<.002	--	<.006	--	--	--	--	--	--	--	--	--
23...	1.10	.024	.20	.032	.041	.20	2.3	<.1	2.2	2.4	5.7	6.8	.5
23...	--	--	--	--	--	--	--	--	--	--	--	--	<.2
JUN 07...	.88	.014	.16	<.006	.009	.04	1.0	<.1	1.0	2.3	7.9	8.0	.4
07...	--	--	--	--	--	--	--	--	--	--	<.03	<.3	--
24...	.87	.022	.20	<.006	.013	.04	1.1	<.1	1.1	2.5	7.5	10.5	.7
24...	.87	.021	.16	<.006	.013	.04	1.0	<.1	1.0	5.4	7.5	10.5	.7
JUL 13...	.85	.032	.06	.007	.019	.03	.6	<.1	.6	3.3	2.7	1.8	.8
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 09...	.56	.026	.12	<.006	.009	.02	.7	<.1	.7	3.1	5.3	7.3	1.0
SEP 22...	.93	.116	.10	.011	.045	.06	.5	<.1	.5	3.5	2.6	3.9	.92

03303280 OHIO RIVER AT CANNELTON DAM, KY—Continued

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

Date	Boron, water, fltrd, ug/L (01020)	Iron, water, fltrd, ug/L (01046)	Lithium, water, fltrd, ug/L (01130)	Selen- ium, water, fltrd, ug/L (01145)	Stront- ium, water, fltrd, ug/L (01080)	Vanad- ium, water, fltrd, ug/L (01085)	2,6-Di- ethyl- aniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor, water, fltrd, ug/L (46342)	alpha- HCH, water, fltrd, ug/L (34253)	Atra- zine, water, fltrd, ug/L (39632)	Azin- phos- methyl, water, fltrd 0.7u GF ug/L (82686)
NOV 17...	45	8	5.0	E0.3	210	0.4	<0.006	E0.010	0.031	<0.005	<0.005	0.053	<0.050
19...	<8	<6	<0.6	<.4	<0.40	<.1	--	--	--	--	--	--	--
DEC 13...	31	12	3.6	E.3	197	.3	--	--	--	--	--	--	--
JAN 13...	23	25	2.6	E.3	141	.5	<.006	E.008	<.010	<.005	<.005	.028	<.050
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	28	19	2.8	E.2	171	.3	<.006	E.012	.013	<.005	<.005	.043	<.050
MAR 08...	42	13	4.3	<.4	189	.4	<.006	E.007	<.006	<.005	<.005	.028	<.050
APR 25...	49	E5	5.1	.5	217	.4	<.006	E.007	<.006	<.005	<.005	.031	<.050
25...	49	E6	5.0	.6	217	.4	<.006	E.008	.008	<.005	<.005	.032	<.050
MAY 09...	30	13	4.7	E.4	193	.3	<.006	E.017	.154	<.005	<.005	.942	<.050
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	45	E4	5.8	E.3	184	1.0	<.006	E.134	.179	.016	<.005	2.12	<.050
23...	<8	<6	<.6	<.4	<.40	<.1	--	--	--	--	--	--	--
JUN 07...	48	E3	6.4	E.2	271	.4	<.006	E.048	.086	<.005	<.005	.723	<.050
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	58	E4	5.5	.4	260	.9	<.006	E.062	.048	<.005	<.005	.497	<.050
24...	51	E3	5.4	.6	257	.6	<.006	E.041	.052	<.005	<.005	.522	<.050
JUL 13...	63	<6	8.1	.6	310	.7	<.006	E.042	.034	<.005	<.005	.403	<.050
13...	--	--	--	--	--	--	<.006	<.006	<.006	<.005	<.005	<.007	<.050
AUG 09...	46	<6	7.7	.5	399	.7	<.006	E.023	.009	<.005	<.005	.236	<.050
SEP 22...	60	<6	7.0	.51	307	.71	<.006	E.020	E.005	<.005	<.005	.117	<.050

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

Date	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673)	Butyl- ate, water, fltrd, ug/L (04028)	Car- baryl, water, fltrd 0.7u GF ug/L (82680)	Carbo- furan, water, fltrd 0.7u GF ug/L (82674)	Chlor- pyrifos water, fltrd, ug/L (38933)	cis- Per- methrin water fltrd 0.7u GF ug/L (82687)	Cyana- zine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF ug/L (82682)	Diazi- non, water, fltrd, ug/L (39572)	Diel- drin, water, fltrd, ug/L (39381)	Disul- foton, water, fltrd 0.7u GF ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethal- flur- alin, water, fltrd 0.7u GF ug/L (82663)
NOV 17...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<0.02	<0.004	<0.009
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 13...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<0.02	<0.004	<0.009
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<0.02	<0.004	<0.009
MAR 08...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<0.02	<0.004	<0.009
APR 25...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<0.02	<0.004	<0.009
25...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<0.02	<0.004	<0.009
MAY 09...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<0.02	<0.004	<0.009
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	<0.010	<0.004	E.191	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<0.02	<0.004	<0.009
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 07...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<0.02	<0.004	<0.009
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<0.02	<0.004	<0.009
24...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<0.02	<0.004	<0.009
JUL 13...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<0.02	<0.004	<0.009
13...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<0.02	<0.004	<0.009
AUG 09...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<0.02	<0.004	<0.009
SEP 22...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<0.02	<0.008	<0.009

03303280 OHIO RIVER AT CANNELTON DAM, KY—Continued

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

Date	Etho- prop, water, fltrd 0.7u GF (82672)	Fonofos water, fltrd, ug/L (04095)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl para- thion, water, fltrd 0.7u GF (82667)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Moli- nate, water, fltrd 0.7u GF (82671)	Naprop- amide, water, fltrd 0.7u GF (82684)	p,p'- DDE, water, fltrd, ug/L (34653)	Para- thion, water, fltrd, ug/L (39542)	Peb- ulate, water, fltrd 0.7u GF (82669)
NOV 17...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	0.016	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
NOV 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 13...	<.005	<.003	<.004	<.035	<.027	<.015	.019	<.006	<.003	<.007	<.003	<.010	<.004
JAN 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 25...	<.005	<.003	<.004	<.035	<.027	<.015	.022	<.006	<.003	<.007	<.003	<.010	<.004
MAR 08...	<.005	<.003	<.004	<.035	<.027	<.015	.028	<.006	<.003	<.007	<.003	<.010	<.004
APR 25...	<.005	<.003	<.004	<.035	<.027	<.015	.014	<.006	<.003	<.007	<.003	<.010	<.004
APR 25...	<.005	<.003	<.004	<.035	<.027	<.015	.014	<.006	<.003	<.007	<.003	<.010	<.004
MAY 09...	<.005	<.003	<.004	<.035	<.027	<.015	.177	<.007	<.003	<.007	<.003	<.010	<.004
MAY 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 23...	<.005	<.003	<.004	<.035	<.027	<.015	.438	.013	<.003	<.007	<.003	<.010	<.004
MAY 23...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 07...	<.005	<.003	<.004	<.035	<.027	<.015	.174	<.006	<.003	<.007	<.003	<.010	<.004
JUN 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 24...	<.005	<.003	<.004	<.035	<.027	<.015	.097	<.006	<.003	<.007	<.003	<.010	<.004
JUN 24...	<.005	<.003	<.004	<.035	<.027	<.015	.100	<.006	<.003	<.007	<.003	<.010	<.004
JUL 13...	<.005	<.003	<.004	<.035	<.027	<.015	.096	<.006	<.003	<.007	<.003	<.010	<.004
JUL 13...	<.005	<.003	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010	<.004
AUG 09...	<.005	<.003	<.004	<.035	<.027	<.015	.038	<.006	<.003	<.007	<.003	<.010	<.004
SEP 22...	<.005	<.003	<.004	<.035	<.027	<.015	.025	<.006	<.003	<.007	<.003	<.010	<.004

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

Date	Pendi- meth- alin, water, fltrd 0.7u GF (82683)	Phorate water fltrd 0.7u GF (82664)	Prome- ton, water, fltrd, ug/L (04037)	Propy- zamide, water, fltrd 0.7u GF (82676)	Propa- chlor, water, fltrd, ug/L (04024)	Pro- panil, water, fltrd 0.7u GF (82679)	Propar- gite, water, fltrd 0.7u GF (82685)	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water, fltrd 0.7u GF (82670)	Terba- cil, water, fltrd 0.7u GF (82665)	Terbu- fos, water, fltrd 0.7u GF (82675)	Thio- bencarb water fltrd 0.7u GF (82681)	Tri- allate, water, fltrd 0.7u GF (82678)
NOV 17...	<0.022	<0.011	<0.01	<0.004	<0.025	<0.011	<0.02	<0.005	<0.02	<0.034	<0.02	<0.010	<0.006
NOV 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 13...	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.037	<.02	<.034	<.02	<.010	<.006
JAN 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 25...	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.049	<.02	<.034	<.02	<.010	<.006
MAR 08...	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.010	<.02	<.034	<.02	<.010	<.006
APR 25...	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.011	<.02	<.034	<.02	<.010	<.006
APR 25...	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.010	<.02	<.034	<.02	<.010	<.006
MAY 09...	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.087	<.02	<.034	<.02	<.010	<.006
MAY 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 23...	<.022	<.011	.01	<.004	<.025	<.011	<.02	.604	<.02	<.034	<.02	<.010	<.006
MAY 23...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 07...	<.022	<.011	.01	<.004	<.025	<.011	<.02	.095	<.02	<.034	<.02	<.010	<.006
JUN 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 24...	<.022	<.011	.01	<.004	<.025	<.011	<.02	.100	<.02	<.034	<.02	<.010	<.006
JUN 24...	<.022	<.011	.01	<.004	<.025	<.011	<.02	.099	<.02	<.034	<.02	<.010	<.006
JUL 13...	<.022	<.011	E.01	<.004	<.025	<.011	<.02	.046	<.02	<.034	<.02	<.010	<.006
JUL 13...	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006
AUG 09...	<.022	<.011	E.01	<.004	<.025	<.011	<.02	.026	<.02	<.034	<.02	<.010	<.006
SEP 22...	<.022	<.011	.02	<.005	<.025	<.011	<.02	E.023	<.02	<.034	<.02	<.010	<.006

OHIO RIVER MAIN STEM

03303280 OHIO RIVER AT CANNELTON DAM, KY—Continued

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

Date	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
NOV			
17...	<0.009	99	65
19...	--	--	--
DEC			
13...	--	81	154
JAN			
13...	<.009	88	277
13...	--	--	--
25...	<.009	98	114
MAR			
08...	<.009	98	43
APR			
25...	<.009	98	34
25...	<.009	99	33
MAY			
09...	<.009	100	65
09...	--	--	--
23...	<.009	100	87
23...	--	--	--
JUN			
07...	<.009	97	7
07...	--	--	--
24...	<.009	78	10
24...	<.009	--	--
JUL			
13...	<.009	100	11
13...	<.009	--	--
AUG			
09...	<.009	97	13
SEP			
22...	<.009	100	16

E--Laboratory estimated value.

M--Presence of material verified but not quantified.

<--Numeric result is less than the value shown.

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03306000 GREEN RIVER NEAR CAMPBELLSVILLE, KY

LOCATION.--Lat 37°14'25", long 85°20'50", Taylor County, Hydrologic Unit 05110001, on right bank on downstream side of pier of bridge on State Highway 55, 0.6 mi downstream from Green River Dam, 0.8 mi upstream from Pinch Creek, 6.9 mi south of Campbellsville, and at mile 305.1.

DRAINAGE AREA.--682 mi².

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--Water-temperature: Oct. 1964 to Sept. 1989, Oct. 1994 to current year.

GAGE.--Water Temperature recorder with telemetry.

REMARKS.--Records good.

COOPERATION.--Nature Conservancy and U.S. Army Corps of Engineers, Louisville District.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 31.0°C, August. 3-5, 1964; minimum recorded, 0.0°C, on many days.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 28.6°C, Aug. 15, 23, minimum recorded, 4.6°C, Feb. 4, 12, 13.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY			
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
1	---	---	18.1	18.0	16.8	17.7	12.7	12.2	12.5	6.7	6.2	6.5	
2	21.4	18.4	19.5	17.8	17.4	17.6	12.5	12.1	12.3	6.5	6.1	6.3	
3	22.0	20.8	21.3	---	---	17.8	12.3	12.2	12.2	6.2	5.9	6.1	
4	---	---	21.2	17.7	17.3	17.5	12.2	12.0	12.1	6.5	5.8	6.1	
5	22.3	19.9	20.7	---	---	17.4	12.0	11.8	11.9	6.5	5.4	6.0	
6	22.2	19.7	20.5	17.4	17.2	17.3	11.8	11.5	11.6	6.4	5.4	5.8	
7	22.1	19.8	20.5	17.2	17.1	17.2	11.7	11.4	11.5	6.5	6.2	6.3	
8	21.5	19.8	20.3	17.2	16.8	17.0	11.7	11.4	11.5	6.4	6.0	6.2	
9	21.0	19.8	20.2	16.8	16.4	16.6	11.4	11.2	11.3	6.0	5.8	5.9	
10	21.7	19.8	20.4	16.8	16.0	16.4	11.4	11.1	11.3	6.2	5.8	6.0	
11	21.4	19.7	20.2	16.5	16.3	16.4	---	---	11.0	6.2	6.0	6.1	
12	20.7	19.8	20.0	16.3	15.7	16.1	10.9	10.6	10.7	6.3	6.0	6.2	
13	19.8	19.6	19.7	15.9	15.3	15.6	10.6	10.2	10.5	6.9	6.3	6.6	
14	20.0	18.9	19.6	15.7	15.1	15.3	10.2	9.9	10.1	6.8	6.5	6.7	
15	19.2	18.2	18.6	15.6	15.0	15.2	9.9	9.7	9.8	6.8	6.4	6.6	
16	19.2	17.5	18.2	15.2	15.0	15.1	9.7	9.6	9.6	6.7	6.2	6.4	
17	19.4	17.2	17.9	15.0	14.8	15.0	9.6	9.4	9.5	6.2	5.9	6.1	
18	18.1	17.4	17.8	15.1	14.8	14.9	9.4	9.2	9.3	6.0	5.7	5.9	
19	18.4	17.8	18.1	14.9	14.6	14.8	9.2	8.6	9.0	5.9	5.8	5.8	
20	18.3	17.0	17.8	14.6	14.4	14.5	8.6	8.2	8.4	5.9	5.8	5.8	
21	18.5	16.7	17.8	14.6	14.4	14.5	8.3	8.1	8.2	5.8	5.7	5.7	
22	18.7	18.2	18.4	14.5	14.3	14.4	8.3	8.1	8.2	5.8	5.7	5.7	
23	18.2	17.8	18.1	14.5	14.2	14.3	8.1	7.5	7.8	5.7	5.3	5.4	
24	18.6	17.9	18.2	14.4	13.4	13.9	7.5	7.2	7.4	5.3	5.1	5.2	
25	19.4	17.5	18.1	13.9	13.6	13.8	7.2	7.0	7.1	5.2	5.1	5.1	
26	18.9	17.4	18.0	13.6	13.4	13.5	7.0	6.8	7.0	5.3	5.1	5.2	
27	18.3	17.9	18.1	---	---	13.2	6.8	6.6	6.7	5.2	4.8	5.0	
28	18.5	18.1	18.3	13.2	12.9	13.0	6.6	6.3	6.5	5.1	4.7	4.9	
29	19.0	17.8	18.2	12.9	12.8	12.8	6.4	6.3	6.4	4.9	4.7	4.8	
30	18.9	17.4	18.0	12.8	12.5	12.7	6.4	6.2	6.3	4.9	4.7	4.8	
31	18.7	17.3	17.9	---	---	---	6.2	6.1	6.2	4.9	4.7	4.8	
MONTH			19.0			15.4			9.5		6.9	4.7	5.8

03306500 GREEN RIVER AT GREENSBURG, KY

LOCATION.--Lat 37°15'12", long 85°03'11", Green County, Hydrologic Unit 05110001, at bridge on State Highway 61 and 70, 300 ft upstream from Clover Lick Creek, 0.25 mi south of Greensburg, 2.6 mi upstream from Russell Creek, and at mile 279.7.

DRAINAGE AREA.--736 mi².

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--June 1939 to September 1975, October 2004 to current.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 531.81 ft above NGVD of 1929. Prior to June 20, 1941, nonrecording gage at same site and datum. Jan. 4, 1951 to September 1975, auxiliary nonrecording gage read twice daily, 1.8 miles upstream from base gage. November 1941 to Jan. 3, 1951, auxiliary nonrecording gage 1.5 miles downstream from base gage.

REMARKS.--Records fair.

COOPERATION.--Green County and U.S Army Corps of Engineers, Louisville District.

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	2,570	265	4,750	1,040	844	2,000	323	1,640	113	83	84	100
2	1,030	2,700	966	1,280	829	1,950	540	2,810	118	83	82	76
3	572	2,730	1,600	1,230	1,030	1,940	402	4,280	128	81	83	106
4	399	3,050	4,460	1,240	1,650	1,920	1,250	6,290	119	90	82	149
5	214	3,360	6,020	1,370	1,650	1,910	2,030	7,740	114	92	83	152
6	121	5,520	5,120	1,530	1,660	1,890	2,010	5,980	110	85	82	151
7	118	5,450	e2,410	1,650	1,660	1,930	2,020	4,070	106	83	81	152
8	117	4,900	e1,580	3,640	1,690	2,100	2,140	2,740	104	83	79	151
9	116	2,500	1,760	1,930	1,730	2,160	2,520	1,360	106	82	80	114
10	114	1,340	1,930	1,310	e2,020	2,620	3,040	649	105	81	71	64
11	109	419	4,020	1,240	e1,410	2,460	3,030	377	110	89	61	58
12	163	457	4,220	1,180	e1,440	1,850	3,090	350	122	96	62	56
13	202	400	5,590	1,190	e1,470	1,400	3,280	333	113	98	61	55
14	238	374	8,210	853	e1,540	912	3,110	346	115	97	61	54
15	304	364	8,680	720	e1,640	505	3,070	332	128	92	66	55
16	138	358	8,350	755	2,840	222	3,040	336	111	88	67	58
17	115	1,270	8,510	1,160	2,960	160	2,800	334	107	93	66	63
18	135	620	8,380	e3,380	2,940	152	1,570	205	106	91	79	59
19	212	364	8,240	5,880	2,850	146	1,200	175	105	84	83	57
20	563	348	8,120	7,120	2,630	143	793	299	103	85	70	56
21	2,690	330	7,820	8,410	2,870	138	779	328	95	120	63	56
22	750	328	6,510	8,840	2,770	137	774	361	82	106	59	57
23	419	331	7,200	8,840	2,680	146	762	359	81	92	59	58
24	486	649	1,290	8,380	2,640	140	760	212	81	86	58	58
25	433	2,550	2,060	5,980	2,610	139	716	138	80	84	58	58
26	433	3,930	4,090	4,000	2,450	137	501	126	81	83	66	57
27	e209	4,810	5,610	2,300	1,930	187	503	125	92	82	63	60
28	394	3,970	5,580	1,200	2,020	1,430	482	120	96	85	61	60
29	307	2,660	5,340	843	---	433	680	116	90	83	92	59
30	149	3,100	4,180	879	---	279	3,360	116	85	84	308	58
31	133	---	2,320	879	---	227	---	115	---	83	192	---
TOTAL	13,953	59,447	154,916	90,249	56,453	31,763	50,575	42,762	3,106	2,744	2,562	2,367
MEAN	450	1,982	4,997	2,911	2,016	1,025	1,686	1,379	104	88.5	82.6	78.9
MAX	2,690	5,520	8,680	8,840	2,960	2,620	3,360	7,740	128	120	308	152
MIN	109	265	966	720	829	137	323	115	80	81	58	54

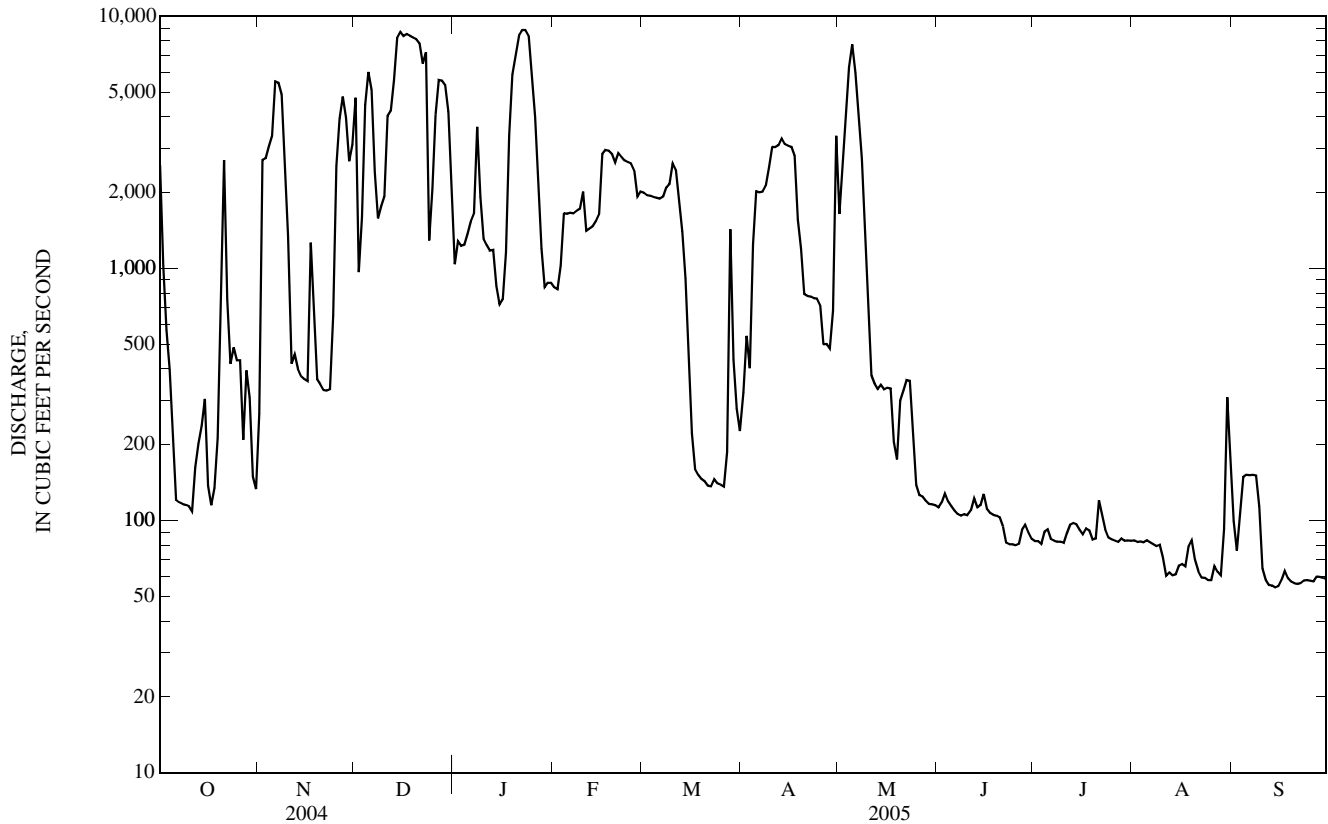
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1960, BY WATER YEAR (WY)

	73.2	663	1,231	1,726	3,312	2,358	1,746	757	711	566	261	121
MEAN	73.2	663	1,231	1,726	3,312	2,358	1,746	757	711	566	261	121
MAX	134	2,849	3,313	3,334	6,790	5,439	2,680	1,918	1,561	1,418	908	338
(WY)	(1956)	(1958)	(1958)	(1957)	(1956)	(1955)	(1958)	(1958)	(1960)	(1958)	(1958)	(1958)
MIN	3.76	31.4	176	662	1,600	1,158	579	342	161	156	28.9	19.5
(WY)	(1957)	(1957)	(1956)	(1955)	(1958)	(1959)	(1955)	(1959)	(1959)	(1957)	(1957)	(1955)

03306500 GREEN RIVER AT GREENSBURG, KY—Continued

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 1955 - 1960	
ANNUAL TOTAL	510,897			
ANNUAL MEAN	1,400		1,115	
HIGHEST ANNUAL MEAN			1,544	1958
LOWEST ANNUAL MEAN			718	1959
HIGHEST DAILY MEAN	8,840	Jan 22	25,200	Nov 20, 1957
LOWEST DAILY MEAN	54	Sep 14	2.0	Oct 3, 1956
ANNUAL SEVEN-DAY MINIMUM	57	Sep 11	3.0	Oct 2, 1956
MAXIMUM PEAK FLOW	9,310	Jan 23	60,600	Feb 28, 1962
MAXIMUM PEAK STAGE	14.11	Jan 23	37.17	Feb 28, 1962
INSTANTANEOUS LOW FLOW			0.40	Oct 26, 1953
10 PERCENT EXCEEDS	4,080		2,660	
50 PERCENT EXCEEDS	364		323	
90 PERCENT EXCEEDS	69		35	

e Estimated



GREEN RIVER BASIN

03306500 GREEN RIVER AT GREENSBURG, KY

LOCATION.--Lat 37°15'12", long 85°03'11", Green County, Hydrologic Unit 05110001, at bridge on State Highway 61 and 70, 300 ft upstream from Clover Lick Creek, 0.25 mi south of Greensburg, 2.6 mi upstream from Russell Creek, and at mile 279.7.

DRAINAGE AREA.--736 mi².

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--Water-temperature: December 22, 1999 to curren year.

GAGE.--Water-temperature recorder with telemetry.

REMARKS.--Records good.

COOPERATION.--Green County and U.S. Army Corps of Engineers, Louisville District.

EXTREMES FOR PERIOD OF DAILY RECORD.--Maximum recorded, 31.2°C , July 25, 2001; minimum recorded, 4.4° C Jan. 17, 2005.

EXTREMES FOR CURRENT YEAR.--

Maximum recorded, 28.8°C, July 21, minimum recorded, 4.4°C, Jan. 17.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.3	19.1	19.6	18.9	17.6	18.2	12.9	12.0	12.6	---	---	---
2	19.7	18.9	19.4	18.9	18.1	18.3	12.0	10.6	11.0	---	---	---
3	18.9	18.1	18.6	18.2	17.5	17.7	11.6	10.3	10.7	---	---	---
4	19.1	17.6	18.4	17.6	17.0	17.4	12.1	11.5	11.8	---	---	---
5	19.0	18.0	18.5	17.0	16.4	16.7	12.2	11.8	12.0	---	---	---
6	18.2	16.7	17.4	17.3	16.6	17.0	12.4	12.1	12.2	---	---	---
7	17.8	16.3	17.1	17.5	16.8	17.2	13.0	12.4	12.8	---	---	---
8	18.3	17.1	17.7	17.4	16.5	17.0	12.9	11.8	12.2	---	---	---
9	18.4	17.6	18.0	16.5	15.6	15.9	---	---	11.5	---	---	---
10	18.7	17.5	18.1	15.8	15.0	15.3	---	---	---	---	---	---
11	18.3	17.4	17.9	15.2	14.8	14.9	---	---	---	---	---	---
12	18.4	17.7	18.1	14.9	14.0	14.6	---	---	---	---	---	8.9
13	18.3	17.6	17.9	14.0	12.9	13.3	---	---	---	8.9	8.7	8.8
14	17.7	17.1	17.4	12.9	12.0	12.4	---	---	---	8.8	7.3	8.2
15	17.4	16.1	16.7	12.3	11.6	12.0	---	---	---	7.3	6.4	6.7
16	16.1	15.1	15.6	13.0	12.2	12.6	---	---	---	6.5	5.1	5.9
17	15.1	13.8	14.4	14.6	13.0	13.8	---	---	---	5.1	4.4	4.6
18	14.8	14.0	14.3	14.6	14.2	14.5	---	---	---	5.7	4.6	5.0
19	16.2	14.8	15.4	14.7	14.4	14.6	---	---	---	---	---	6.0
20	18.3	16.2	16.8	14.8	14.6	14.8	---	---	---	6.7	6.3	6.5
21	18.4	17.6	17.9	14.6	14.3	14.4	---	---	---	6.7	6.5	6.6
22	17.8	17.4	17.6	---	---	14.2	---	---	---	6.6	6.3	6.5
23	17.6	17.1	17.3	14.6	14.1	14.3	---	---	---	6.3	6.2	6.3
24	18.3	17.5	17.8	14.9	14.6	14.7	---	---	---	6.3	6.0	6.1
25	18.1	17.3	17.7	14.8	13.2	13.6	---	---	---	6.5	6.0	6.2
26	---	---	17.3	13.7	13.0	13.4	---	---	---	6.8	6.4	6.5
27	---	---	---	13.6	13.3	13.4	---	---	---	6.4	5.5	5.8
28	---	---	18.4	13.4	12.8	13.2	---	---	---	5.5	5.0	5.3
29	19.6	18.6	19.1	12.8	12.5	12.7	---	---	---	6.0	5.4	5.7
30	19.8	19.2	19.5	12.8	12.6	12.7	---	---	---	---	---	6.0
31	19.5	18.0	18.6	---	---	---	---	---	---	---	---	6.2
MONTH						14.8						

03307000 RUSSELL CREEK NEAR COLUMBIA, KY

LOCATION.--Lat 37°07'09", long 85°23'38", Adair County, Hydrologic Unit 05110001, on left bank at downstream side of bridge on State Highway 61, 0.3 mi upstream from Butlers Fork, 5.0 mi west of Columbia, and at mile 26.9. Records include flow of Butlers Fork.

DRAINAGE AREA.--188 mi² (includes Butlers Fork), of which about 15 mi² does not contribute directly to surface runoff.

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year. Prior to December 1939, monthly discharge only, published in WSP 1305.

REVISED RECORDS.--WSP 1275: 1940. WSP 1335: 1953. WSP 1555: Drainage area. WRD KY-75-1: 1949(M), 1952(M), 1955(M), 1962(M), 1967(M), 1974(M).

GAGE.--Water-stage recorder with telemetry. Datum of gage is 610.96 ft above NGVD of 1929. Prior to June 25, 1953, nonrecording gage at same site and datum.

REMARKS.--Records fair except for those estimated, which are poor.

COOPERATION.--Kentucky Natural Resources and Environmental Protection Cabinet and U.S. Army Corps of Engineers, Louisville District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Jan. 1937 reached a stage of about 23 ft, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 1	0330	*6,290	*15.51	Jan 8	1015	6,030	15.21
Dec 7	1900	6,160	15.36	Apr 30	1315	5,200	14.16

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	103	3,940	271	265	589	508	998	51	29	18	143
2	62	92	1,140	630	234	401	1,510	573	54	27	16	68
3	69	84	757	822	252	334	795	415	60	25	15	42
4	73	1,190	562	703	244	294	506	332	63	109	14	29
5	61	625	439	1,180	219	426	372	275	54	84	14	23
6	55	382	875	1,310	201	354	299	238	48	45	13	19
7	51	287	4,120	1,370	188	317	272	208	e47	31	12	17
8	49	225	1,420	4,180	229	783	471	181	e38	26	12	16
9	48	172	1,620	1,170	232	554	349	157	e39	23	12	15
10	47	145	1,410	728	220	423	276	140	e27	21	11	13
11	46	135	1,130	550	200	356	236	126	e36	22	10	13
12	45	355	824	574	185	311	237	113	e131	26	9.9	12
13	241	363	636	579	427	266	442	103	e62	43	9.5	12
14	145	256	500	1,120	1,030	227	306	112	e39	58	9.7	11
15	104	203	415	646	666	196	248	122	39	112	9.9	11
16	117	175	368	494	484	184	206	100	47	113	16	10
17	81	158	334	386	366	183	175	87	37	91	18	12
18	75	147	305	312	298	162	155	79	32	132	21	20
19	e612	143	288	284	256	148	138	75	30	210	23	20
20	e405	147	252	267	360	139	124	353	29	73	19	16
21	e206	136	237	247	988	126	110	278	28	102	17	13
22	e176	125	433	219	728	119	102	147	27	85	14	11
23	e144	128	2,510	189	493	136	102	111	26	65	12	9.9
24	e164	776	935	148	393	153	96	93	25	50	10	9.1
25	e194	938	629	163	323	133	85	80	24	e48	21	8.7
26	146	580	509	157	274	121	84	73	23	e36	15	8.8
27	125	441	419	141	242	118	189	69	23	e33	13	9.1
28	115	462	361	118	428	525	127	64	35	e28	41	9.6
29	120	387	339	215	---	326	196	59	49	28	181	14
30	126	2,240	316	454	---	235	3,680	57	40	23	676	12
31	108	---	293	328	---	224	---	55	---	20	366	---
TOTAL	4,072	11,600	28,316	19,955	10,425	8,863	12,396	5,873	1,263	1,818	1,649.0	627.2
MEAN	131	387	913	644	372	286	413	189	42.1	58.6	53.2	20.9
MAX	612	2,240	4,120	4,180	1,030	783	3,680	998	131	210	676	143
MIN	45	84	237	118	185	118	84	55	23	20	9.5	8.7
CFSM	0.76	2.24	5.28	3.72	2.15	1.65	2.39	1.10	0.24	0.34	0.31	0.12
IN.	0.88	2.49	6.09	4.29	2.24	1.91	2.67	1.26	0.27	0.39	0.35	0.13

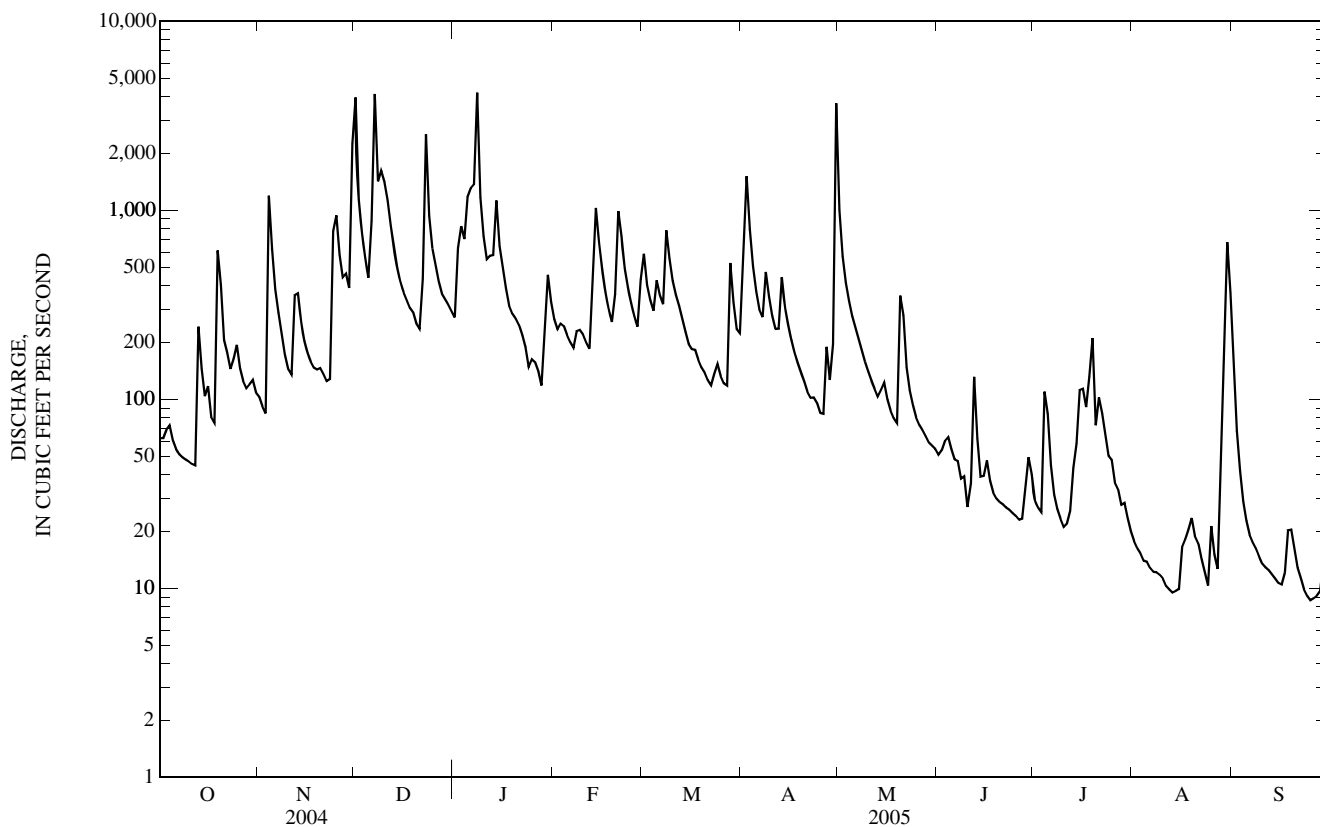
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	74.3	208	409	473	578	569	390	274	203	122	86.3	110
MAX	636	1,047	2,540	1,779	1,588	1,787	856	1,464	800	751	502	1,114
(WY)	(1976)	(1952)	(1979)	(1950)	(1989)	(1975)	(1972)	(1983)	(1950)	(1967)	(1967)	(1979)
MIN	1.38	8.92	18.6	26.5	61.1	91.0	70.1	39.8	14.6	10.0	4.25	2.09
(WY)	(1954)	(1954)	(1954)	(1981)	(1941)	(1941)	(1986)	(1941)	(1988)	(1944)	(1991)	(1953)

03307000 RUSSELL CREEK NEAR COLUMBIA, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	139,675		106,857.2		290	
ANNUAL MEAN	382		293		651	
HIGHEST ANNUAL MEAN					118	
LOWEST ANNUAL MEAN					25,000	
HIGHEST DAILY MEAN	7,830	Feb 6	4,180	Jan 8	0.40	1979
LOWEST DAILY MEAN	30	Jul 30	8.7	Sep 25	0.47	1941
ANNUAL SEVEN-DAY MINIMUM	37	Aug 27	9.5	Sep 22	0.47	1952
MAXIMUM PEAK FLOW			6,290	Dec 1	40,600	1982
MAXIMUM PEAK STAGE			15.51	Dec 1	26.12	1982
INSTANTANEOUS LOW FLOW					5.7	1993
ANNUAL RUNOFF (CFSM)	2.21		1.69		1.68	
ANNUAL RUNOFF (INCHES)	30.03		22.98		22.78	
10 PERCENT EXCEEDS	862		640		631	
50 PERCENT EXCEEDS	192		143		102	
90 PERCENT EXCEEDS	52		15		15	

e Estimated



03307000 RUSSELL CREEK NEAR COLUMBIA, KY—Continued

LOCATION.--Lat 37°07'09", long 85°23'38", Adair County, Hydrologic Unit 05110001, on left bank at downstream side of bridge on State Highway 61, 0.3 mi upstream from Butlers Fork, 5.0 mi west of Columbia, and at mile 26.9. Records include flow of Butlers Fork.

DRAINAGE AREA.--188 mi² (includes Butlers Fork), of which about 15 mi² does not contribute directly to surface runoff.

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--December 22, 1999 to current year.

GAGE.--Water-temperature recorder with telemetry.

REMARKS.--Records good.

COOPERATION.--U.S. Army Corps of Engineers, Louisville District.

EXTREMES FOR CURRENT YEAR.--Maximum recorded, 31.1°C, July 25, minimum recorded, 1.4°C, Jan. 24.

EXTREMES FOR PERIOD OF DAILY RECORD.--Maximum recorded, 31.3°C, Sept. 10, 2003; minimum recorded 0.0°C, many days in Dec. and Jan.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.2	15.9	17.1	18.4	17.4	17.8	11.4	10.7	11.2	9.9	8.9	9.4
2	18.1	17.5	17.8	18.8	18.2	18.4	10.7	9.0	9.6	11.4	9.9	10.6
3	17.9	16.4	17.2	---	---	---	9.0	8.3	8.7	11.8	11.2	11.4
4	17.5	15.3	16.4	17.4	16.2	16.8	8.3	7.5	7.9	12.2	11.8	12.0
5	16.3	13.6	15.0	---	---	---	8.3	7.2	7.8	12.2	11.9	12.1
6	15.4	11.7	13.5	14.4	13.4	13.8	11.6	8.3	9.9	12.3	10.2	11.6
7	15.9	11.9	14.0	13.7	13.2	13.4	13.6	11.6	12.9	10.2	8.3	9.0
8	16.3	13.7	15.1	13.6	12.8	13.2	13.4	11.5	12.2	9.3	8.3	8.8
9	16.6	14.9	15.7	---	---	---	11.8	11.0	11.3	9.7	9.2	9.4
10	16.6	14.4	15.5	10.9	9.7	10.3	12.6	11.8	12.3	10.1	9.7	9.9
11	16.4	14.0	15.3	11.2	10.1	10.6	12.3	10.7	11.5	11.0	10.0	10.4
12	17.0	15.3	16.1	11.8	11.2	11.5	10.7	10.0	10.2	12.3	11.0	11.7
13	17.0	16.8	16.9	11.6	10.5	11.1	10.0	7.8	9.1	12.6	12.1	12.4
14	16.8	16.4	16.6	10.5	9.4	10.0	7.8	6.1	6.8	12.1	8.7	10.4
15	16.4	14.9	15.5	9.7	8.6	9.2	6.1	5.1	5.5	8.7	7.3	7.8
16	14.9	13.9	14.4	10.1	9.0	9.6	5.4	4.6	5.0	7.3	5.8	6.7
17	13.9	12.8	13.3	10.9	10.1	10.6	5.5	4.9	5.2	5.8	3.6	4.5
18	---	---	---	11.8	10.7	11.2	5.7	5.0	5.3	3.6	2.1	2.6
19	---	---	---	12.8	11.8	12.4	5.8	4.8	5.5	2.7	2.0	2.3
20	---	---	---	13.3	12.8	13.1	4.8	3.4	3.9	4.3	2.7	3.4
21	---	---	---	13.6	13.0	13.3	3.9	3.0	3.4	4.8	4.3	4.6
22	---	---	---	13.6	12.9	13.2	5.0	3.9	4.3	4.9	4.1	4.7
23	---	---	---	13.9	13.2	13.5	5.2	4.8	5.0	4.1	2.2	3.0
24	---	---	---	14.5	13.7	14.1	4.9	3.9	4.4	2.2	1.4	1.7
25	---	---	---	14.0	10.7	12.5	3.9	3.3	3.6	2.4	1.4	1.8
26	16.8	16.1	16.5	10.7	9.1	9.6	4.2	3.5	3.8	4.1	2.4	3.2
27	17.4	16.6	16.9	---	---	---	4.1	3.7	3.8	4.3	3.8	4.1
28	18.0	17.2	17.5	9.5	8.9	9.1	4.1	3.3	3.7	3.8	3.2	3.6
29	19.0	18.0	18.4	9.3	8.7	9.0	5.6	4.1	4.7	4.0	3.6	3.8
30	19.2	18.7	18.9	11.4	9.2	10.1	7.4	5.6	6.4	---	---	---
31	18.9	17.7	18.1	---	---	---	8.9	7.4	8.1	5.1	4.6	4.9
MONTH							13.6	3.0	7.2			

03308500 GREEN RIVER AT MUNFORDVILLE, KY

LOCATION.--Lat 37°16'05", long 85°53'10", Hart County, Hydrologic Unit 05110001, on right bank at downstream side of pier of bridge on U.S. Highway 31W at Munfordsville, and at mile 225.9.

DRAINAGE AREA.--1,673 mi², of which about 180 mi² does not contribute directly to surface runoff.

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--February 1915 to December 1922, October to September 1931, December 1936 to February 1937 (in WSP 838), October 1937 to current year. Monthly discharge only October 1937 to March 1938, published in WSP 1305. Gage-height records collected at same site since 1924 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1555: 1916(M), drainage area, WSP 1909: 1937.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 451.70 ft above NGVD of 1929. See WRD-KY-90-1 for history of changes prior to Nov. 29, 1940.

REMARKS.--Records good. Flow regulated by Green River Lake beginning February 1969 (station 03305990).

COOPERATION.--U.S. Army Corps of Engineers, Louisville District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1913 reached a stage of 54.0 ft at former site, discharge, 67,000 ft/s.

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

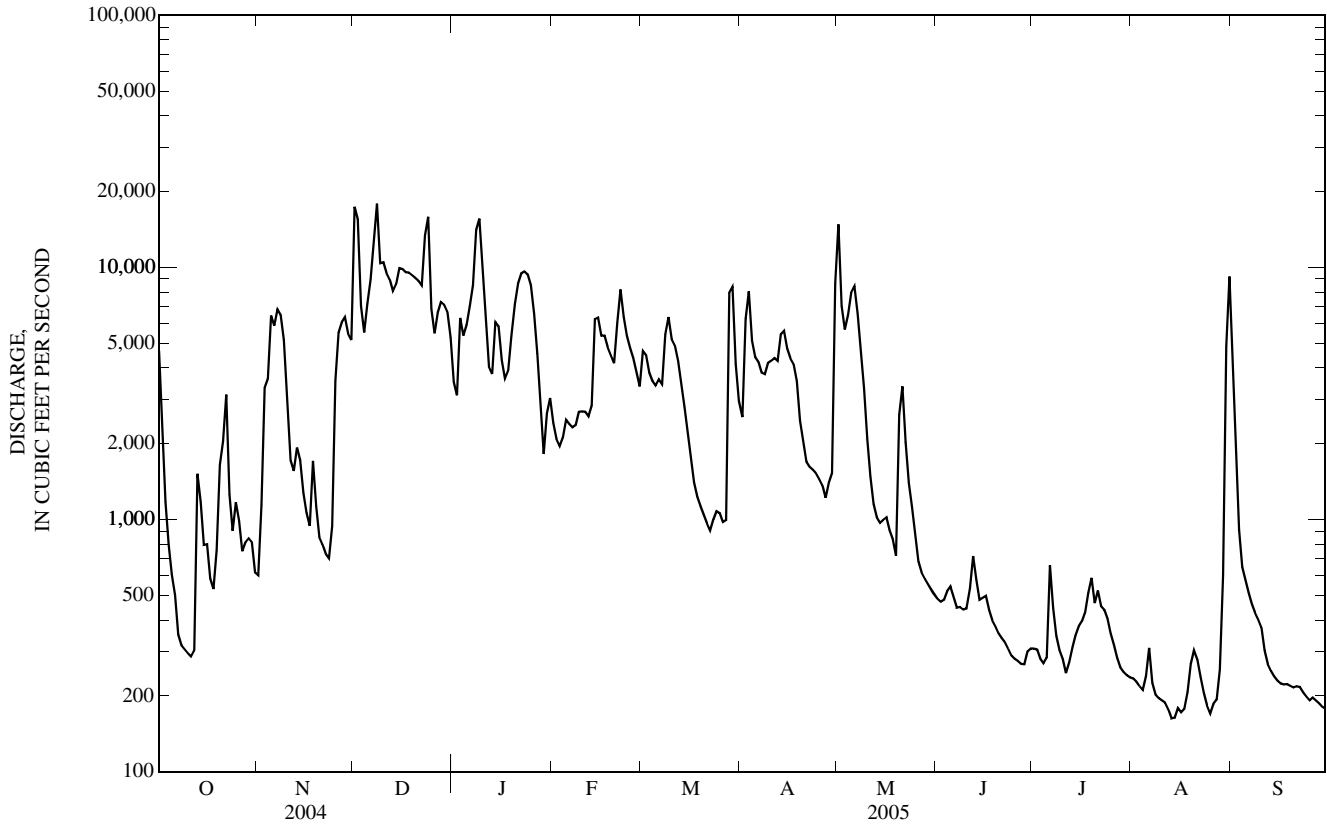
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,670	602	17,400	3,510	2,420	4,670	2,550	14,800	484	308	235	3,460
2	2,530	1,140	15,500	3,110	2,090	4,490	6,250	7,050	472	305	228	1,590
3	1,180	3,340	7,040	6,310	1,960	3,830	8,030	5,680	480	281	218	914
4	796	3,620	5,530	5,370	2,120	3,550	5,130	6,470	520	269	211	648
5	604	6,430	7,200	5,910	2,490	3,410	4,420	7,950	541	283	239	578
6	502	5,880	8,970	7,020	2,400	3,600	4,230	8,420	492	658	310	513
7	349	6,820	12,600	8,530	2,320	3,450	3,830	6,580	448	446	225	463
8	317	6,500	17,900	14,100	2,370	5,440	3,770	4,750	450	345	202	427
9	305	5,150	10,400	15,600	2,680	6,370	4,180	3,330	440	303	196	402
10	295	2,810	10,500	9,110	2,690	5,200	4,260	2,100	444	280	192	374
11	286	1,720	9,510	5,910	2,680	4,900	4,380	1,480	533	246	188	302
12	303	1,560	8,970	4,050	2,570	4,270	4,260	1,150	717	271	177	267
13	1,520	1,930	8,060	3,780	2,830	3,440	5,430	1,020	577	310	163	251
14	1,180	1,720	8,600	6,070	6,230	2,800	5,620	973	480	347	164	239
15	795	1,280	9,960	5,850	6,330	2,190	4,760	998	489	377	179	230
16	799	1,060	9,880	4,290	5,370	1,740	4,360	1,020	498	395	172	224
17	583	945	9,590	3,620	5,370	1,400	4,140	905	437	429	178	222
18	530	1,710	9,550	3,890	4,840	1,230	3,550	835	399	514	207	223
19	759	1,130	9,320	5,360	4,490	1,130	2,470	719	377	588	267	219
20	1,650	852	9,080	7,170	4,180	1,050	2,050	2,610	353	467	303	216
21	2,050	797	8,860	8,640	6,050	968	1,700	3,380	338	523	277	218
22	3,130	731	8,510	9,480	8,190	906	1,620	2,030	326	453	237	217
23	1,260	702	13,400	9,640	6,390	1,000	1,580	1,400	307	439	205	207
24	903	944	15,900	9,390	5,350	1,080	1,530	1,120	289	404	183	199
25	1,170	3,560	6,840	8,500	4,800	1,060	1,450	863	281	352	170	192
26	992	5,520	5,480	6,570	4,370	978	1,370	682	275	318	186	197
27	749	6,060	6,640	4,560	3,850	994	1,220	618	268	283	193	192
28	813	6,340	7,300	2,760	3,380	7,950	1,400	582	267	259	255	187
29	843	5,460	7,130	1,820	---	8,370	1,530	555	300	249	599	181
30	813	5,160	6,690	2,640	---	4,150	8,640	529	308	242	4,870	178
31	618	---	5,300	3,040	---	2,950	---	506	---	237	9,190	---
TOTAL	33,294	91,473	297,610	195,600	110,810	98,566	109,710	91,105	12,590	11,181	20,619	13,730
MEAN	1,074	3,049	9,600	6,310	3,958	3,180	3,657	2,939	420	361	665	458
MAX	4,670	6,820	17,900	15,600	8,190	8,370	8,640	14,800	717	658	9,190	3,460
MIN	286	602	5,300	1,820	1,960	906	1,220	506	267	237	163	178

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

MEAN	1,251	2,447	4,238	4,618	5,425	4,901	3,696	3,268	2,393	1,026	853	1,203
MAX	5,337	5,414	12,800	12,130	13,610	12,040	8,632	13,250	7,209	3,132	3,642	6,104
(WY)	(1976)	(2003)	(1979)	(1974)	(1989)	(1975)	(1994)	(1983)	(1997)	(1973)	(1977)	(1979)
MIN	193	210	545	255	1,952	1,066	552	487	214	280	202	152
(WY)	(2001)	(1972)	(1981)	(1981)	(1992)	(1983)	(1986)	(1988)	(1988)	(1993)	(1993)	(1999)

03308500 GREEN RIVER AT MUNFORDVILLE, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1970 - 2005	
ANNUAL TOTAL	1,404,333		1,086,288			
ANNUAL MEAN	3,837		2,976		2,930	
HIGHEST ANNUAL MEAN					5,285 1979	
LOWEST ANNUAL MEAN					1,233 2000	
HIGHEST DAILY MEAN	21,800	Feb 7	17,900	Dec 8	62,800	May 8, 1984
LOWEST DAILY MEAN	286	Oct 11	163	Aug 13	136	Oct 4, 2001
ANNUAL SEVEN-DAY MINIMUM	337	Oct 6	174	Aug 11	142	Sep 9, 1999
MAXIMUM PEAK FLOW			20,300	Dec 1	76,800	Mar 1, 1962
MAXIMUM PEAK STAGE			25.27	Dec 1	57.72	Mar 1, 1962
INSTANTANEOUS LOW FLOW					157	Jul 8, 1988
10 PERCENT EXCEEDS	9,390		8,040		7,090	
50 PERCENT EXCEEDS	2,060		1,400		1,440	
90 PERCENT EXCEEDS	600		233		282	



03308500 GREEN RIVER AT MUNFORDVILLE, KY—Continued

LOCATION.--Lat 37°16'05", long 85°53'10", Hart County, Hydrologic Unit 05110001, on right bank at downstream side of pier of bridge on U.S. Highway 31W at Munfordville, and at mile 225.9.

DRAINAGE AREA.--1,673 mi², of which about 180 mi² does not contribute directly to surface runoff.

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--Water years 1950-77, 1980, 1983-90, August 1992 to September 1994, December 22, 1999 to current year.

GAGE.--Water-temperature recorder with telemetry.

REMARKS.--Records good.

COOPERATION.--U.S. Army Corps of Engineers, Louisville District.

EXTREMES FOR PERIOD OF DAILY RECORD.--Maximum daily, 29°C, July 13-17, 1980; minimum daily 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--Maximum recorded 26.3°C, Aug. 27, minimum recorded, 3.7°C, Jan. 18.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.9	17.3	18.4	17.3	16.3	16.9	12.0	11.7	11.8	9.5	8.7	9.1
2	18.8	17.9	18.5	17.2	16.8	17.0	11.9	10.9	11.4	11.0	9.5	10.4
3	18.0	17.0	17.5	17.2	16.3	16.8	10.9	9.8	10.4	11.8	11.0	11.5
4	17.7	16.3	17.0	16.4	15.9	16.2	10.2	9.3	9.6	12.3	11.8	12.1
5	17.0	15.6	16.4	16.1	14.9	15.6	11.2	10.2	10.7	12.5	12.2	12.3
6	16.3	14.6	15.5	15.1	14.2	14.6	11.9	11.2	11.6	12.6	11.8	12.3
7	16.0	14.3	15.3	15.8	14.9	15.4	13.1	11.8	12.5	11.8	10.2	10.9
8	16.0	15.0	15.6	15.7	15.3	15.5	13.2	12.9	13.1	10.3	9.4	9.7
9	16.3	15.2	15.7	15.3	14.1	14.8	12.9	11.9	12.4	9.9	9.5	9.7
10	17.2	15.2	16.0	14.1	13.3	13.5	12.2	11.8	12.0	---	---	---
11	17.0	15.1	15.9	13.3	13.0	13.0	12.2	11.7	12.1	---	---	---
12	16.0	15.4	15.7	13.0	12.4	12.9	11.7	10.9	11.2	---	---	---
13	15.9	15.7	15.8	12.4	11.3	11.9	10.9	10.1	10.5	---	---	---
14	15.8	15.3	15.6	11.3	10.5	10.9	10.1	9.3	9.5	12.2	10.7	11.6
15	15.3	14.4	14.7	10.6	10.0	10.3	9.3	8.9	9.1	10.7	8.9	9.8
16	14.4	13.4	14.0	10.9	10.0	10.5	8.9	8.6	8.8	8.9	7.1	8.1
17	13.7	12.4	13.1	11.6	10.8	11.2	9.2	8.7	8.9	7.1	5.2	6.2
18	13.2	12.6	12.8	12.8	11.4	11.9	9.2	8.8	9.0	5.2	3.7	4.3
19	14.0	13.2	13.5	14.0	12.8	13.6	9.1	8.4	8.9	5.2	3.8	4.4
20	15.2	14.0	14.6	13.9	13.8	13.8	8.4	7.4	7.9	6.1	5.2	5.7
21	15.9	15.1	15.5	14.0	13.7	13.8	8.0	7.3	7.7	6.3	6.1	6.2
22	16.8	15.9	16.5	14.0	13.6	13.8	8.3	8.0	8.2	6.1	5.6	5.9
23	16.5	16.1	16.2	14.2	13.7	13.9	8.1	5.9	7.1	5.6	4.9	5.3
24	17.0	16.0	16.4	14.7	14.1	14.3	5.9	5.7	5.8	5.1	4.8	4.9
25	16.5	15.6	16.1	14.2	13.1	13.7	5.7	4.9	5.2	5.4	4.8	5.1
26	16.0	15.4	15.8	13.1	11.9	12.2	5.8	4.8	5.1	6.0	5.3	5.7
27	16.3	15.7	16.0	12.3	11.8	12.0	6.2	5.7	5.9	6.1	5.7	5.9
28	16.8	16.2	16.5	12.3	11.9	12.2	6.3	5.9	6.1	5.7	5.1	5.3
29	17.7	16.7	17.1	11.9	11.5	11.7	7.1	6.3	6.7	5.7	5.3	5.5
30	18.5	17.4	17.9	12.2	11.5	11.8	7.7	7.0	7.3	6.0	5.7	5.8
31	17.9	16.8	17.2	---	---	---	8.7	7.7	8.2	6.2	6.0	6.1
MONTH	18.9	12.4	15.9	17.3	10.0	13.5	13.2	4.8	9.2			

03309000 GREEN RIVER AT MAMMOTH CAVE, KY

LOCATION.--Lat 37°10'48", long 86°06'45", Edmonson County, Hydrologic Unit 05110001, on right bank, upstream side of road (Echo River Road) at ferry landing, five hundred feet downstream from Echo River, 0.75 miles southwest of Mammoth Cave, and at mile 197.2.

DRAINAGE AREA.--2,020 mi².

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--July 1938 to Sept. 1950. Oct. 1, 2003 to current year.

GAGE.--Water-stage recorder with telemetry and crest-stage gage. Datum of gage is 416.52 above NGVD of 1929.

REMARKS.--Records good.

COOPERATION.--Mammoth Cave National Park, Western Kentucky University, Barren River Area Development District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 52.5 ft. Jan. 24, 1937, at former site (discharge, 75,000 second feet). Flood of 1913 reached a stage of 50.5 ft.

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

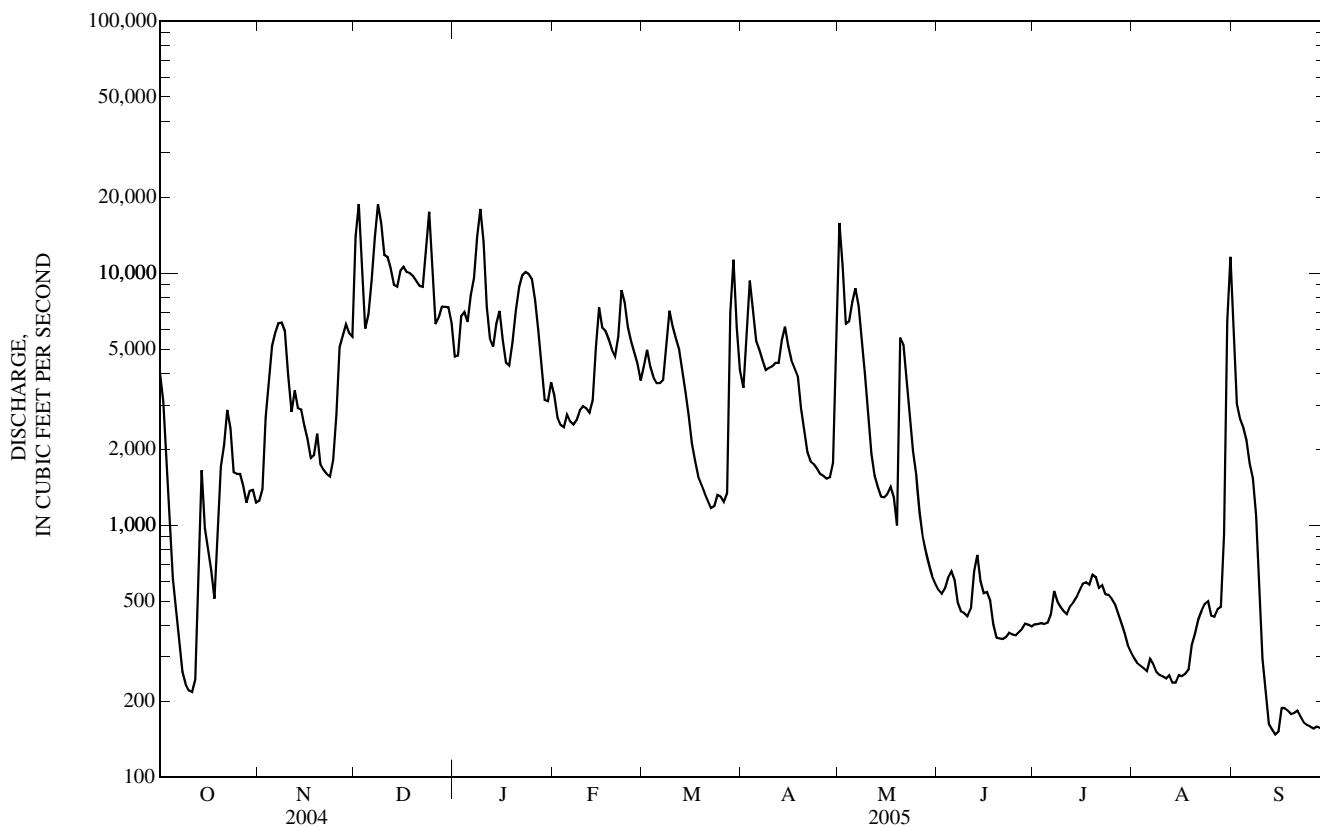
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,990	1,250	14,000	4,680	3,270	4,280	3,510	15,800	554	405	298	6,430
2	3,100	1,390	18,800	4,720	2,680	4,970	5,740	10,700	534	406	284	3,030
3	1,680	2,680	11,500	6,740	2,500	4,250	9,350	6,300	562	410	278	2,640
4	1,020	3,610	6,030	7,000	2,450	3,860	6,990	6,430	620	406	271	2,440
5	615	5,140	6,830	6,400	2,750	3,670	5,380	7,650	656	411	264	2,170
6	475	5,800	9,310	8,200	2,580	3,670	4,950	8,700	605	445	295	1,760
7	351	6,340	13,800	9,570	2,510	3,780	4,500	7,420	493	548	282	1,540
8	262	6,370	18,800	14,000	2,610	5,310	4,120	5,350	455	500	262	1,100
9	234	5,910	15,800	18,000	2,850	7,100	4,210	3,940	449	475	254	585
10	221	3,980	11,800	13,300	2,960	6,130	4,270	2,710	436	456	251	296
11	218	2,820	11,600	7,350	2,910	5,510	4,410	1,920	468	444	247	215
12	244	3,430	10,400	5,510	2,800	4,990	4,410	1,570	658	477	254	163
13	660	2,910	8,990	5,120	3,130	4,080	5,430	1,420	764	494	238	155
14	1,650	2,880	8,840	6,310	5,090	3,380	6,130	1,300	599	517	238	148
15	977	2,480	10,200	7,070	7,300	2,720	5,150	1,290	538	552	254	152
16	798	2,190	10,600	5,420	6,080	2,110	4,530	1,330	543	586	252	189
17	662	1,850	10,100	4,420	5,900	1,800	4,210	1,420	503	593	257	188
18	512	1,900	9,990	4,310	5,470	1,560	3,910	1,290	404	582	267	184
19	920	2,310	9,720	5,280	4,980	1,450	2,910	1,000	358	637	335	178
20	1,710	1,750	9,310	7,130	4,690	1,340	2,380	5,560	356	623	371	180
21	2,080	1,660	8,920	8,780	5,620	1,250	1,950	5,230	354	565	425	184
22	2,870	1,600	8,830	9,810	8,570	1,170	1,790	3,620	360	579	459	174
23	2,430	1,560	12,100	10,100	7,640	1,190	1,750	2,680	374	532	488	165
24	1,620	1,820	17,500	9,930	6,100	1,320	1,680	1,970	369	529	500	161
25	1,600	2,740	11,100	9,470	5,360	1,300	1,600	1,590	367	511	438	159
26	1,600	5,090	6,270	7,810	4,860	1,240	1,570	1,150	377	487	433	156
27	1,430	5,630	6,670	5,920	4,370	1,340	1,530	902	388	446	465	159
28	1,230	6,260	7,370	4,210	3,750	6,970	1,550	787	407	409	474	157
29	1,370	5,790	7,360	3,140	---	11,300	1,770	700	403	374	922	157
30	1,380	5,600	7,330	3,100	---	6,130	6,920	628	397	336	6,460	154
31	1,230	---	6,350	3,690	---	4,130	---	586	---	315	11,600	---
TOTAL	39,139	104,740	326,220	226,490	121,780	113,300	118,600	112,943	14,351	15,050	28,116	25,369
MEAN	1,263	3,491	10,520	7,306	4,349	3,655	3,953	3,643	478	485	907	846
MAX	3,990	6,370	18,800	18,000	8,570	11,300	9,350	15,800	764	637	11,600	6,430
MIN	218	1,250	6,030	3,100	2,450	1,170	1,530	586	354	315	238	148

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2005, BY WATER YEAR (WY)

MEAN	388	1,196	3,301	6,086	6,868	6,001	4,783	2,512	2,060	1,265	1,038	754
MAX	1,263	3,491	10,520	19,220	16,080	12,010	9,467	5,354	7,008	3,276	3,103	3,758
(WY)	(2005)	(2005)	(2005)	(1950)	(1939)	(1943)	(1948)	(1947)	(1950)	(1947)	(1938)	(1950)
MIN	124	181	271	390	870	851	1,547	547	478	202	225	170
(WY)	(1941)	(1940)	(1940)	(1940)	(1941)	(1941)	(1946)	(1941)	(2005)	(1944)	(1945)	(1945)

03309000 GREEN RIVER AT MAMMOTH CAVE, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1938 - 2005	
ANNUAL TOTAL	1,557,020		1,246,098			
ANNUAL MEAN	4,254		3,414		2,989	
HIGHEST ANNUAL MEAN					5,680	1950
LOWEST ANNUAL MEAN					1,170	1941
HIGHEST DAILY MEAN	22,500	Feb 7	18,800	Dec 2	50,300	Feb 18, 1949
LOWEST DAILY MEAN	119	Sep 16	148	Sep 14	92	Nov 2, 1945
ANNUAL SEVEN-DAY MINIMUM	230	Sep 11	158	Sep 24	104	Oct 21, 1940
MAXIMUM PEAK FLOW			19,900	Dec 8	51,400	Feb 18, 1949
MAXIMUM PEAK STAGE			27.42	Dec 8	43.00	Feb 18, 1949
10 PERCENT EXCEEDS	10,200		8,800		7,600	
50 PERCENT EXCEEDS	2,550		1,850		1,150	
90 PERCENT EXCEEDS	572		266		206	



03309000 GREEN RIVER AT MAMMOTH CAVE, KY—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 2003 to current year.

COOPERATION.--Western Kentucky University.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 2003 to current year.

pH: August 2003 to current year.

WATER TEMPERATURE: August 2003 to current year.

DISSOLVED OXYGEN: August 2003 to current year.

TURBIDITY: August 2003 to current year.

INSTRUMENTATION.--Five parameter water-quality monitor with telemetry.

REMARKS.--

SPECIFIC CONDUCTANCE: Records rated fair. Missing record Oct. 9, 30, Nov. 20, 23, 25, 27, Dec. 2, 6, 8-9, 15, 2004, Jan. 9-11, 13, 30, Feb. 1, 14-18, 20-22, 25-28, 2005.

pH: Records rated good. Missing record July 29 to Sept. 7, 2005.

WATER TEMPERATURE: Records rated excellent. Missing record Feb. 20, 25-28, Mar. 5-7, 11, 13, Apr. 18, May 3, 27-31, July 30 to Sept. 7, 2005.

DISSOLVED OXYGEN: Records rated poor. Missing record Oct. 7-26, Nov. 1-4, 9-23, 25, 27, Dec. 2, 6-21, 2004, Jan. 9-11, 13, 19-31, Feb. 1-10, 13-18, 21, 22, 25-28, Mar. 1-15, Mar. 18 to May 4, May 21-25, July 10 to Sept. 7, and Sept. 20-23, 25-30, 2005.

TURBIDITY: Records rated poor. Missing record Oct. 26 to Nov. 3, Nov. 7-22, 25, Dec. 6, 2004, Jan. 9-10, 20, Feb. 14-17, 20-22, 26-28, Mar. 5, 10, 12, Apr. 5-6, May 27-31, June 11-16, 28-30, July 1, 17, 27-28, July 31 to Sept. 7, and Sept. 23, 2005.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 470 microsiemens, Oct. 25, 2004; minimum recorded, 162 microsiemens, Jan. 25, 2005.

pH: Maximum recorded, 8.3 units, Apr. 9-11, 2004; minimum recorded, 6.9 units, Dec. 7-8, 2004.

WATER TEMPERATURE: Maximum recorded, 28.8 C, July 26, 2005; minimum recorded, 3.8 C, Feb. 1, 2004.

DISSOLVED OXYGEN: Maximum recorded, 16.1 mg/L, Jan. 18, 2005; minimum recorded, 5.9 mg/L, July 29-30, 2004.

TURBIDITY: Maximum recorded, 480 FNU, May 27, 2004; minimum recorded, <2.0 FNU, July 30, Sept. 24, 27-28, 2005.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 470 microsiemens, Oct. 25, 2004; minimum recorded, 162 microsiemens, Jan. 25, 2005.

pH: Maximum recorded, 8.2 units, Sept. 11, 18-25, 27-30, 2005; minimum recorded, 6.9 units, Dec. 7-8, 2004.

WATER TEMPERATURES: Maximum recorded, 28.8°C, July 26, 2005; minimum recorded, 4.5°C, July 8, 9, 2005.

DISSOLVED OXYGEN: Maximum recorded, 16.1 mg/L, Jan. 18, 2005; minimum recorded, 6.2 mg/L, July 8, 9, 2005.

TURBIDITY: Maximum recorded, 460 FNU, Oct. 25, 2004; minimum recorded, <2.0 FNU, July 30, Sept. 24, 27-28, 2005.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	277	163	194	339	328	333	277	225	258	230	203	218
2	192	168	180	347	326	336	---	---	---	254	230	234
3	202	192	196	350	302	338	291	220	256	272	254	266
4	222	202	211	302	222	235	302	291	299	269	260	263
5	239	222	231	274	213	230	298	233	260	273	262	269
6	257	239	249	274	225	246	---	---	---	272	266	268
7	270	257	262	225	190	201	250	212	231	269	252	262
8	283	269	276	192	183	187	---	---	---	255	231	247
9	---	283	---	258	187	214	---	---	---	---	---	---
10	317	---	---	338	258	306	269	240	258	---	---	---
11	329	317	320	372	338	356	250	239	243	---	---	---
12	335	321	328	409	355	379	253	240	246	269	266	268
13	336	324	330	420	407	413	245	237	242	---	---	---
14	359	295	337	424	407	416	237	215	225	274	258	269
15	311	290	297	437	422	428	---	---	---	260	255	257
16	312	305	309	438	434	436	195	189	191	270	257	262
17	325	307	314	437	425	432	192	186	189	279	270	273
18	339	325	332	425	409	415	185	186	186	282	275	279
19	346	339	342	410	383	399	188	184	186	280	236	265
20	369	345	354	---	---	---	185	181	182	236	199	213
21	389	369	378	341	308	322	182	175	179	199	179	186
22	392	373	383	328	317	322	179	172	174	179	171	174
23	420	392	402	---	---	---	211	179	199	171	168	169
24	450	420	438	321	313	317	213	179	189	168	163	166
25	470	427	457	---	---	---	253	187	221	166	162	163
26	430	---	---	329	269	303	267	253	263	175	166	172
27	324	312	321	---	---	---	262	218	238	197	175	186
28	328	324	325	240	228	232	218	193	200	214	188	203
29	333	328	331	238	227	231	193	192	193	243	214	232
30	---	---	---	252	238	244	193	190	192	---	---	---
31	350	333	337	---	---	---	203	193	200	300	277	289

MONTH

03309000 GREEN RIVER AT MAMMOTH CAVE, KY—Continued

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

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	247	241	245	325	313	319	334	224	290
2	302	282	287	255	241	251	323	307	316	226	208	215
3	302	283	297	250	243	246	311	282	296	---	---	---
4	305	284	297	243	243	243	288	276	281	242	221	230
5	306	284	295	243	242	243	---	---	---	221	198	206
6	293	255	272	242	240	242	---	---	---	198	189	191
7	---	258	270	243	---	---	320	310	316	210	192	200
8	299	259	272	246	237	242	326	311	321	211	199	206
9	---	274	285	251	234	242	317	304	311	226	208	217
10	308	269	281	---	---	---	327	309	320	241	222	231
11	271	264	269	---	---	---	319	277	295	271	241	262
12	264	257	260	---	---	---	303	280	293	291	267	280
13	262	250	255	---	---	---	309	292	301	329	286	303
14	---	---	---	253	246	249	311	307	309	325	309	318
15	---	---	---	274	253	262	312	309	310	325	314	318
16	---	---	---	286	274	280	325	310	317	326	314	319
17	---	---	---	300	286	292	332	319	324	---	---	---
18	---	---	---	311	300	306	---	---	---	325	311	317
19	237	229	233	327	311	319	357	346	351	326	309	321
20	---	---	---	332	327	330	376	349	361	309	208	251
21	---	---	---	334	331	332	382	350	367	326	272	302
22	---	---	---	334	332	333	384	360	376	362	326	346
23	239	235	237	334	332	333	---	---	---	374	350	366
24	241	237	239	338	334	336	354	332	343	401	370	390
25	---	---	---	338	334	336	353	323	336	370	325	357
26	---	---	---	340	335	336	326	318	322	325	314	316
27	---	---	---	340	319	336	331	319	325	---	---	---
28	---	---	---	319	253	285	333	330	332	---	---	---
29	---	---	---	---	---	---	344	333	340	---	---	---
30	---	---	---	290	248	271	356	330	348	---	---	---
31	---	---	---	314	290	300	---	---	---	---	---	---
MONTH	JUNE			JULY			AUGUST			SEPTEMBER		
1	364	350	354	361	358	360	---	---	---	---	---	---
2	360	352	356	358	353	355	---	---	---	---	---	---
3	363	353	354	355	351	353	---	---	---	---	---	---
4	356	354	355	353	344	349	---	---	---	---	---	---
5	359	353	356	348	343	345	---	---	---	---	---	---
6	357	349	352	357	345	350	---	---	---	---	---	---
7	356	348	350	366	330	355	---	---	---	---	---	---
8	368	351	358	330	315	318	---	---	---	354	348	351
9	369	362	365	326	320	323	---	---	---	354	350	353
10	370	357	363	335	326	331	---	---	---	351	344	347
11	360	351	356	344	335	339	---	---	---	347	342	345
12	358	351	354	341	321	333	---	---	---	344	338	341
13	355	338	345	327	315	319	---	---	---	340	339	339
14	338	308	322	339	327	334	---	---	---	346	340	344
15	---	---	---	339	334	337	---	---	---	347	342	345
16	327	313	319	334	316	325	---	---	---	353	347	351
17	335	327	332	317	307	311	---	---	---	357	352	354
18	337	335	336	320	307	313	---	---	---	361	357	359
19	342	336	339	340	320	330	---	---	---	363	357	362
20	347	342	344	344	329	337	---	---	---	366	362	364
21	354	347	351	347	324	330	---	---	---	368	365	367
22	356	354	355	359	347	356	---	---	---	370	367	369
23	359	355	356	355	333	344	---	---	---	370	368	369
24	359	355	356	337	331	334	---	---	---	370	366	369
25	364	355	357	331	320	324	---	---	---	369	365	367
26	367	361	364	331	321	325	---	---	---	368	365	366
27	368	364	366	335	331	333	---	---	---	369	366	367
28	370	365	367	336	332	334	---	---	---	368	366	367
29	369	359	364	---	---	---	---	---	---	370	367	368
30	361	359	360	---	---	---	---	---	---	371	368	369
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	JUNE			JULY			AUGUST			SEPTEMBER		
YEAR	JUNE			JULY			AUGUST			SEPTEMBER		

03309000 GREEN RIVER AT MAMMOTH CAVE, KY—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	YEAR	YEAR		
1	7.8	7.5	7.7	7.6	7.3	7.1	7.5	7.4	7.5	7.5	7.9	7.8	7.8	7.8		
2	7.6	7.5	7.7	7.6	7.2	7.2	7.4	7.4	7.5	7.5	7.9	7.9	7.9	7.9		
3	7.6	7.5	7.7	7.6	7.2	7.2	7.4	7.3	7.5	7.5	7.9	7.9	7.9	7.9		
4	7.6	7.6	7.6	7.5	7.3	7.2	7.4	7.4	7.5	7.5	7.9	7.9	7.9	7.9		
5	7.7	7.6	7.6	7.6	7.3	7.3	7.4	7.4	7.6	7.5	7.9	7.9	7.9	7.9		
6	7.7	7.7	7.6	7.5	7.3	7.1	7.5	7.4	7.6	7.5	8.0	7.9	8.0	7.9		
7	7.7	7.6	7.5	7.4	7.1	6.9	7.5	7.4	7.5	7.5	8.0	7.9	8.0	7.9		
8	7.7	7.6	7.4	7.4	7.0	6.9	7.5	7.3	7.5	7.5	7.9	7.8	7.9	7.8		
9	7.7	7.5	7.4	7.3	7.1	7.0	7.4	7.4	7.5	7.5	7.8	7.8	7.8	7.8		
10	7.7	7.5	7.8	7.4	7.1	7.0	7.4	7.4	7.9	7.5	7.8	7.8	7.8	7.8		
11	7.7	7.5	7.9	7.8	7.1	7.1	7.4	7.4	7.9	7.9	7.9	7.8	7.9	7.8		
12	7.7	7.5	7.9	7.8	7.2	7.1	7.5	7.4	7.9	7.9	7.9	7.9	7.9	7.9		
13	7.7	7.6	7.9	7.9	7.2	7.1	7.5	7.5	7.9	7.8	7.9	7.9	7.9	7.9		
14	7.6	7.4	7.9	7.8	7.3	7.2	7.5	7.4	7.8	7.7	7.9	7.9	7.9	7.9		
15	7.4	7.3	7.8	7.7	7.3	7.3	7.4	7.4	7.8	7.8	7.9	7.2	7.9	7.2		
16	7.3	7.3	7.7	7.6	7.3	7.2	7.4	7.4	7.8	7.8	7.4	7.3	7.4	7.3		
17	7.4	7.3	7.7	7.6	7.3	7.2	7.4	7.4	7.8	7.8	7.6	7.4	7.6	7.4		
18	7.4	7.3	7.6	7.5	7.3	7.3	7.5	7.4	7.9	7.8	7.7	7.6	7.7	7.6		
19	7.4	7.3	7.5	7.5	7.3	7.2	7.5	7.5	7.9	7.8	7.7	7.6	7.7	7.6		
20	7.3	7.3	7.5	7.5	7.3	7.2	7.5	7.3	7.9	7.8	7.8	7.7	7.8	7.7		
21	7.3	7.3	7.5	7.4	7.3	7.2	7.3	7.3	7.8	7.8	7.9	7.7	7.9	7.7		
22	7.3	7.3	7.6	7.4	7.3	7.2	7.3	7.3	7.8	7.8	7.8	7.8	7.8	7.8		
23	7.5	7.3	7.6	7.6	7.3	7.2	7.3	7.3	7.8	7.8	7.8	7.8	7.8	7.8		
24	7.6	7.5	7.6	7.6	7.4	7.3	7.3	7.3	7.8	7.8	7.8	7.8	7.8	7.8		
25	7.7	7.6	7.6	7.5	7.3	7.3	7.3	7.3	7.8	7.8	7.9	7.8	7.9	7.8		
26	7.6	7.5	7.6	7.4	7.4	7.3	7.3	7.3	7.8	7.8	8.0	7.8	8.0	7.8		
27	7.6	7.5	7.4	7.4	7.5	7.4	7.3	7.3	7.8	7.8	7.9	7.8	7.9	7.8		
28	7.6	7.6	7.4	7.4	7.5	7.5	7.3	7.3	7.8	7.8	7.8	7.4	7.8	7.4		
29	7.6	7.6	7.5	7.4	7.5	7.5	7.3	7.3	---	---	7.4	7.4	7.4	7.4		
30	7.7	7.6	7.5	7.3	7.5	7.4	7.4	7.3	---	---	7.5	7.4	7.5	7.4		
31	7.7	7.6	---	---	7.5	7.4	7.5	7.4	---	---	7.5	7.4	7.5	7.4		
MONTH	7.8	7.3	7.9	7.3	7.5	6.9	7.5	7.3	7.9	7.5	8.0	7.2	8.0	7.2		
1	7.5	7.4	7.4	7.3	7.9	7.8	8.1	7.9	---	---	---	---	8.1	7.9		
2	7.5	7.4	7.6	7.4	7.9	7.7	8.1	7.9	---	---	---	---	8.1	7.9		
3	7.5	7.4	7.7	7.5	7.7	7.6	8.1	7.9	---	---	---	---	8.1	7.9		
4	7.5	7.3	7.8	7.5	7.8	7.6	8.0	7.9	---	---	---	---	8.0	7.9		
5	7.4	7.3	7.5	7.5	7.8	7.7	8.0	7.8	---	---	---	---	8.0	7.8		
6	7.6	7.4	7.5	7.5	7.9	7.7	8.0	7.8	---	---	---	---	8.0	7.8		
7	7.6	7.4	7.5	7.5	7.9	7.7	8.0	7.9	---	---	---	---	8.0	7.9		
8	7.5	7.4	7.5	7.5	7.8	7.7	8.0	7.8	---	---	8.0	7.9	8.0	7.9		
9	7.6	7.5	7.5	7.5	7.8	7.7	8.0	7.8	---	---	8.1	8.0	8.1	8.0		
10	7.6	7.6	7.6	7.5	7.7	7.6	8.0	7.8	---	---	8.1	8.0	8.1	8.0		
11	7.7	7.6	7.6	7.6	7.7	7.6	8.0	7.8	---	---	8.2	8.0	8.2	8.0		
12	7.6	7.6	7.7	7.6	7.6	7.6	7.8	7.8	---	---	8.1	7.9	8.1	7.9		
13	7.6	7.6	7.8	7.7	7.6	7.5	7.8	7.7	---	---	8.1	7.9	8.1	7.9		
14	7.7	7.6	7.8	7.7	7.5	7.4	7.8	7.7	---	---	8.1	7.9	8.1	7.9		
15	7.7	7.7	8.0	7.8	7.4	7.3	7.8	7.7	---	---	8.0	7.9	8.0	7.9		
16	7.7	7.7	8.0	7.8	7.6	7.4	7.8	7.8	---	---	8.1	7.9	8.1	7.9		
17	7.7	7.7	8.0	7.8	7.7	7.5	7.8	7.7	---	---	8.1	8.0	8.1	8.0		
18	7.7	7.7	7.9	7.8	7.7	7.6	7.9	7.8	---	---	8.2	8.0	8.2	8.0		
19	7.7	7.7	7.9	7.8	7.7	7.6	7.9	7.8	---	---	8.2	8.1	8.2	8.1		
20	7.7	7.6	7.9	7.3	7.7	7.6	7.9	7.8	---	---	8.2	8.1	8.2	8.1		
21	7.6	7.6	7.4	7.3	7.8	7.6	7.9	7.8	---	---	8.2	8.1	8.2	8.1		
22	7.6	7.6	7.5	7.4	7.8	7.6	8.0	7.8	---	---	8.2	8.0	8.2	8.0		
23	7.6	7.5	7.5	7.4	7.8	7.6	8.0	7.8	---	---	8.2	8.0	8.2	8.0		
24	7.5	7.5	7.6	7.4	7.7	7.5	8.0	7.8	---	---	8.2	8.0	8.2	8.0		
25	7.5	7.5	7.7	7.6	7.7	7.6	8.0	7.8	---	---	8.2	8.0	8.2	8.0		
26	7.5	7.4	7.8	7.7	7.7	7.5	8.0	7.8	---	---	8.1	8.0	8.1	8.0		
27	7.4	7.4	7.8	7.7	7.7	7.6	8.0	7.8	---	---	8.2	8.0	8.2	8.0		
28	7.4	7.4	7.8	7.7	7.7	7.5	8.0	7.9	---	---	8.2	8.0	8.2	8.0		
29	7.4	7.3	7.8	7.7	8.0	7.6	---	---	---	---	8.2	8.1	8.2	8.1		
30	7.4	7.3	7.9	7.7	8.1	7.9	---	---	---	---	8.2	8.1	8.2	8.1		
31	---	---	8.0	7.8	---	---	---	---	---	---	---	---	---	---		
MONTH	7.7	7.3	8.0	7.3	8.1	7.3	8.1	7.3	---	---	8.2	8.0	8.2	8.0		
YEAR	8.2	6.9	8.0	7.3	8.1	7.3	8.1	7.3	---	---	8.2	8.0	8.2	8.0		

03309000 GREEN RIVER AT MAMMOTH CAVE, KY—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.1	18.0	18.7	17.8	17.2	17.4	12.1	11.4	11.7	9.5	8.3	8.9
2	19.4	19.1	19.2	17.6	17.3	17.5	---	---	11.3	11.0	9.5	10.0
3	19.1	18.0	18.6	17.3	16.9	17.1	11.0	10.3	10.7	11.7	11.0	11.3
4	18.1	17.4	17.8	17.4	16.3	16.8	10.3	9.5	9.8	12.1	11.7	11.9
5	17.6	16.8	17.3	16.3	15.4	15.8	10.3	9.0	9.6	12.4	12.1	12.3
6	17.1	16.1	16.6	15.4	14.5	14.9	---	---	11.1	12.4	11.9	12.2
7	16.9	15.5	16.3	15.4	14.3	14.8	12.4	11.6	12.0	11.9	11.0	11.4
8	17.1	16.1	16.7	15.4	15.1	15.3	---	---	12.6	11.0	9.7	10.5
9	17.2	16.4	16.8	15.1	14.6	14.9	---	---	12.6	---	---	9.6
10	17.8	16.5	17.2	14.6	13.6	14.1	12.3	11.7	12.0	---	---	10.1
11	17.3	16.5	16.9	13.6	13.2	13.3	11.9	11.7	11.8	---	---	10.7
12	16.8	16.6	16.7	13.2	12.9	13.1	11.8	11.0	11.4	11.8	11.0	11.4
13	16.6	16.0	16.2	12.9	12.1	12.5	11.0	10.0	10.5	---	---	12.0
14	16.2	15.8	16.0	12.1	11.2	11.6	10.0	9.0	9.6	12.1	11.3	11.8
15	15.9	15.1	15.5	11.2	10.7	10.9	---	---	8.7	11.3	10.0	10.6
16	15.1	14.3	14.9	11.0	10.6	10.8	8.6	8.4	8.4	10.0	8.3	9.1
17	14.5	13.7	14.1	11.5	11.0	11.2	8.6	8.3	8.4	8.3	6.7	7.4
18	14.2	13.6	13.9	11.8	11.4	11.6	8.7	8.4	8.5	6.7	5.3	5.9
19	15.0	14.1	14.5	12.6	11.8	12.1	8.7	8.2	8.5	5.3	4.5	4.8
20	15.3	14.9	15.1	13.6	12.6	13.2	8.2	7.4	7.8	6.1	4.9	5.5
21	15.8	15.1	15.5	13.7	13.5	13.6	7.6	7.3	7.4	6.3	6.1	6.3
22	16.7	15.8	16.2	13.7	13.5	13.6	7.9	7.6	7.7	6.3	5.8	6.1
23	17.1	16.7	16.9	13.8	13.5	13.7	8.0	6.6	7.7	5.8	5.2	5.4
24	17.3	16.6	16.9	14.2	13.7	14.0	6.6	5.6	5.8	5.2	4.8	5.0
25	16.9	16.4	16.6	---	---	13.2	6.0	5.6	5.8	5.5	4.9	5.1
26	16.6	16.2	16.4	12.8	11.9	12.4	5.8	5.3	5.5	6.0	5.5	5.7
27	17.0	16.5	16.7	---	---	11.5	5.8	5.1	5.5	6.2	5.9	6.0
28	17.4	16.9	17.1	11.9	11.4	11.6	6.1	5.7	5.9	6.0	5.7	5.8
29	18.0	17.2	17.6	11.7	11.4	11.5	6.9	6.1	6.4	6.2	5.8	6.0
30	18.5	17.8	18.0	11.9	11.3	11.4	7.6	6.9	7.2	---	---	6.5
31	18.1	17.3	17.7	---	---	---	8.3	7.6	8.0	6.7	6.4	6.5
MONTH	19.4	13.6	16.6	17.8	10.6	13.5			9.0			8.4
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.1	6.6	6.8	8.2	7.6	7.8	13.8	13.1	13.5	13.4	13.1	13.2
2	7.1	7.0	7.0	7.6	6.9	7.2	13.1	12.0	12.7	13.3	12.9	13.1
3	7.6	7.1	7.3	7.0	6.3	6.7	12.0	11.0	11.3	---	---	---
4	7.6	7.1	7.3	7.6	6.5	7.0	12.3	10.8	11.4	13.4	12.5	13.0
5	7.4	6.9	7.2	---	---	---	13.4	12.1	12.6	13.9	13.0	13.3
6	7.1	6.8	7.0	---	---	---	13.9	13.4	13.6	14.6	13.9	14.2
7	7.4	7.1	7.2	---	---	---	14.1	13.6	13.8	14.8	14.3	14.6
8	8.2	7.4	7.8	9.3	8.9	9.2	14.1	13.7	14.0	15.7	14.8	15.2
9	8.5	8.2	8.4	9.0	8.3	8.6	14.6	13.4	14.0	16.6	15.4	16.0
10	8.4	7.9	8.2	---	---	7.8	15.5	14.2	14.8	17.3	16.0	16.6
11	7.9	7.3	7.6	---	---	---	15.6	15.1	15.3	18.6	17.3	17.9
12	7.3	6.6	6.9	---	---	7.6	15.4	14.7	15.0	19.7	18.2	18.9
13	8.1	7.0	7.2	---	---	---	14.7	14.0	14.3	20.5	19.1	19.8
14	---	---	8.6	9.0	8.2	8.7	14.4	13.4	13.9	20.3	19.8	20.0
15	---	---	9.2	9.0	8.6	8.9	14.4	13.4	14.0	20.1	19.3	19.8
16	---	---	9.9	9.1	8.8	8.9	14.7	13.6	14.2	19.4	18.6	19.0
17	---	---	9.3	10.0	8.8	9.3	14.9	13.6	14.3	19.1	18.0	18.5
18	---	---	8.2	10.2	9.2	9.8	---	---	---	19.6	18.1	18.9
19	7.8	7.1	7.3	10.5	9.8	10.1	16.0	14.4	15.2	19.7	18.7	19.2
20	---	---	---	10.8	9.8	10.4	17.1	16.0	16.5	19.1	15.6	16.4
21	---	---	8.0	11.3	10.2	10.8	17.8	16.6	17.2	17.7	15.8	16.6
22	---	---	8.8	11.0	10.8	10.8	18.1	17.4	17.7	18.2	17.4	17.8
23	9.4	9.1	9.3	10.9	10.7	10.8	17.6	15.6	16.8	19.2	18.1	18.6
24	9.1	8.4	8.7	10.9	10.7	10.8	15.6	14.6	15.0	19.2	18.5	18.9
25	---	---	---	12.0	10.6	11.3	14.8	14.0	14.5	19.1	18.2	18.7
26	---	---	---	12.8	11.7	12.2	14.4	13.4	13.9	19.4	18.0	18.8
27	---	---	---	12.4	12.0	12.2	13.4	12.8	13.2	---	---	---
28	---	---	---	12.3	11.4	12.0	13.1	12.6	12.7	---	---	---
29	---	---	---	11.7	11.1	11.5	13.0	12.4	12.7	---	---	---
30	---	---	---	12.9	11.4	12.0	13.2	12.8	13.0	---	---	---
31	---	---	---	13.8	12.8	13.3	---	---	---	---	---	---
MONTH							18.1	10.8	14.2			

03309000 GREEN RIVER AT MAMMOTH CAVE, KY—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.5	8.0	8.2	---	---	---	10.3	9.3	9.7	13.9	13.3	13.6
2	8.2	8.0	8.1	---	---	---	---	---	---	13.3	12.7	13.1
3	8.5	8.2	8.4	---	---	---	10.2	9.1	9.5	12.7	12.4	12.5
4	8.8	8.4	8.6	---	---	---	10.3	8.8	9.5	12.4	12.2	12.3
5	9.0	8.6	8.8	9.3	8.9	9.1	9.7	8.5	9.1	12.2	12.2	12.2
6	9.1	8.8	8.9	9.6	8.8	9.2	---	---	---	12.2	12.1	12.2
7	---	---	---	9.8	9.6	9.7	---	---	---	12.8	12.1	12.4
8	---	---	---	9.9	9.7	9.8	---	---	---	13.4	12.8	13.0
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	12.9	12.7	12.8
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	12.9	12.5	12.6
15	---	---	---	---	---	---	---	---	---	13.4	12.9	13.1
16	---	---	---	---	---	---	---	---	---	14.3	13.4	13.8
17	---	---	---	---	---	---	---	---	---	15.2	14.3	14.7
18	---	---	---	---	---	---	---	---	---	16.1	15.2	15.7
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	12.9	12.7	12.8	---	---	---
23	---	---	---	---	---	---	13.1	12.6	12.7	---	---	---
24	---	---	---	10.0	9.6	9.8	13.6	13.1	13.4	---	---	---
25	---	---	---	---	---	---	13.6	13.4	13.5	---	---	---
26	---	---	---	10.2	9.7	9.9	14.2	13.6	14.0	---	---	---
27	8.9	8.6	8.8	---	---	---	14.5	14.2	14.4	---	---	---
28	8.6	8.4	8.5	10.5	9.9	10.2	14.6	14.4	14.5	---	---	---
29	8.4	8.1	8.3	10.5	10.0	10.3	14.6	14.4	14.5	---	---	---
30	8.1	7.7	8.0	10.4	9.8	10.2	14.4	14.2	14.3	---	---	---
31	7.7	7.4	7.5	---	---	---	14.2	13.9	14.0	---	---	---
MONTH	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	10.0	9.8	9.9
6	---	---	---	---	---	---	---	---	---	9.9	9.8	9.8
7	---	---	---	---	---	---	---	---	---	9.9	9.8	9.8
8	---	---	---	---	---	---	---	---	---	9.9	9.7	9.8
9	---	---	---	---	---	---	---	---	---	9.8	9.4	9.6
10	---	---	---	---	---	---	---	---	---	9.5	9.2	9.4
11	12.2	12.0	12.1	---	---	---	---	---	---	9.4	9.0	9.2
12	12.3	12.2	12.3	---	---	---	---	---	---	9.3	8.8	9.1
13	---	---	---	---	---	---	---	---	---	9.7	8.8	9.2
14	---	---	---	---	---	---	---	---	---	9.6	8.6	9.0
15	---	---	---	---	---	---	---	---	---	11.0	8.6	10
16	---	---	---	13.5	12.8	13.3	---	---	---	10.9	8.8	9.9
17	---	---	---	12.8	8.1	11.1	---	---	---	10.4	8.9	9.6
18	---	---	---	---	---	---	---	---	---	10.3	8.7	9.6
19	10.5	10.3	10.4	---	---	---	---	---	---	10.1	9.2	9.7
20	10.3	9.9	10.1	---	---	---	---	---	---	9.8	9.1	9.4
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	8.6	8.3	8.5	---	---	---	---	---	---	---	---	---
24	8.4	8.1	8.2	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	9.3	8.6	8.9
27	---	---	---	---	---	---	---	---	---	9.2	8.8	9.0
28	---	---	---	---	---	---	---	---	---	9.5	8.7	9.1
29	---	---	---	---	---	---	---	---	---	9.7	8.8	9.2
30	---	---	---	---	---	---	---	---	---	10.2	9.0	9.6
31	---	---	---	---	---	---	---	---	---	10.8	9.2	9.9
MONTH	FEBRUARY			MARCH			APRIL			MAY		

03309000 GREEN RIVER AT MAMMOTH CAVE, KY—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRA-RED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/- 2.5 DEGREES, FNU
 WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	66	22	49	---	---	---	250	62	170	20	11	14
2	45	15	26	---	---	---	---	---	110	67	11	28
3	17	8.8	13	---	---	---	71	40	49	90	38	67
4	12	6.6	8.6	30	16	22	42	27	35	88	39	61
5	14	5.1	8.2	76	17	46	38	27	32	44	24	32
6	12	6.1	8.3	130	56	86	---	---	---	51	27	40
7	10	3.2	5.8	---	---	---	---	---	85	66	38	53
8	10	2.9	5.6	---	---	---	---	---	150	220	62	110
9	---	---	6.5	---	---	---	---	---	83	---	---	---
10	---	---	5.1	---	---	---	94	50	67	---	---	---
11	10	2.0	4.1	---	---	---	76	51	60	---	---	32
12	17	2.2	6.1	---	---	---	56	35	46	30	16	21
13	17	6.6	10	---	---	---	39	27	32	---	---	17
14	25	12	17	---	---	---	37	27	31	47	17	26
15	25	11	16	---	---	---	---	---	43	55	37	47
16	16	10	12	---	---	---	52	31	39	40	16	26
17	13	8.1	10	---	---	---	42	28	32	18	4.8	10
18	13	7.7	9.5	---	---	---	---	---	32	8.5	1.4	3.1
19	16	8.1	11	---	---	---	38	27	30	17	2.5	9.3
20	21	9.4	13	---	---	---	31	25	28	---	---	---
21	20	13	16	---	---	---	29	24	27	52	32	44
22	220	15	64	---	---	---	34	26	29	50	35	43
23	270	200	240	---	---	6.1	150	27	56	40	27	34
24	320	230	260	12	5.9	7.9	190	74	150	33	26	29
25	460	260	350	---	---	---	74	44	56	34	23	28
26	---	---	---	59	41	52	44	19	30	25	16	20
27	---	---	---	---	---	41	26	19	22	17	14	15
28	---	---	---	51	31	37	38	23	30	15	9.2	12
29	---	---	---	33	21	28	27	20	23	14	8.0	9.7
30	---	---	---	62	18	25	29	20	22	---	---	11
31	---	---	---	---	---	---	20	14	17	22	13	17
MONTH	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	14	19	11	14	27	21	25	270	100	190
2	12	7.8	9.9	23	18	20	110	27	48	100	52	76
3	8.3	6.3	7.2	20	12	16	160	93	130	---	---	40
4	7.9	5.4	6.0	13	9.7	11	96	40	64	36	24	29
5	8.3	5.8	6.5	---	---	---	---	---	---	41	28	36
6	8.2	6.2	7.0	---	---	10	---	---	---	47	32	40
7	---	---	7.0	---	---	14	24	16	19	35	23	29
8	9.7	6.5	7.6	57	18	36	19	14	16	34	19	22
9	---	---	8.8	78	57	70	25	15	19	25	17	20
10	13	8.6	11	---	---	---	24	17	20	22	13	17
11	13	10	11	---	---	18	32	18	23	21	9.7	13
12	12	8.9	10	---	---	---	32	16	22	19	9.6	12
13	---	---	12	---	---	11	71	20	35	14	9.3	11
14	---	---	---	11	8.2	9.1	88	52	67	21	8.5	13
15	---	---	---	13	6.3	8.9	65	27	41	21	10	12
16	---	---	---	13	6.0	7.7	33	20	25	13	10	11
17	---	---	---	10	5.7	7.1	30	19	23	---	---	11
18	---	---	20	9.4	4.9	6.4	---	---	21	15	8.4	9.4
19	20	16	18	11	4.4	5.5	31	16	20	30	8.6	10
20	---	---	---	5.8	3.6	4.6	31	15	20	420	28	200
21	---	---	---	7.9	3.7	4.7	29	15	20	220	72	140
22	---	---	---	6.1	3.7	4.3	36	15	21	75	31	48
23	79	40	61	7.0	3.3	4.5	---	---	23	35	22	27
24	44	22	28	13	4.3	5.7	30	15	22	27	19	23
25	---	---	19	12	5.2	6.1	22	15	18	27	16	19
26	---	---	---	8.2	4.2	5.5	26	15	18	34	16	25
27	---	---	---	25	4.4	7.2	41	18	30	---	---	---
28	---	---	---	380	16	170	48	14	28	---	---	---
29	---	---	---	360	150	270	30	10	18	---	---	---
30	---	---	---	150	49	88	240	16	94	---	---	---
31	---	---	---	54	26	36	---	---	---	---	---	---
MONTH	FEBRUARY			MARCH			APRIL			MAY		

03309000 GREEN RIVER AT MAMMOTH CAVE, KY—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRA-RED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/- 2.5 DEGREES, FNU—
CONTINUED

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11	7.0	8.7	---	---	---	---	---	---	---	---	---
2	14	6.9	9.1	23	7.2	11	---	---	---	---	---	---
3	14	6.4	8.7	31	14	20	---	---	---	---	---	---
4	12	5.6	8.0	32	15	24	---	---	---	---	---	---
5	10	5.2	7.7	19	8.1	11	---	---	---	---	---	---
6	12	5.9	7.7	16	8.3	12	---	---	---	---	---	---
7	---	---	7.7	23	11	16	---	---	---	---	---	---
8	---	---	8.3	19	7.3	13	---	---	---	13	6.3	8.5
9	13	6.0	8.4	14	8.1	11	---	---	---	11	5.5	7.9
10	13	6.9	9.7	19	12	16	---	---	---	20	5.2	9.0
11	---	---	---	23	8.5	14	---	---	---	14	4.2	7.7
12	---	---	---	12	5.5	9.1	---	---	---	14	4.1	7.7
13	---	---	---	6.2	3.5	4.5	---	---	---	19	4.8	9.8
14	---	---	---	6.9	3.5	5.0	---	---	---	17	6.0	9.3
15	---	---	---	15	5.2	9.9	---	---	---	27	7.4	17
16	---	---	---	36	8.9	21	---	---	---	47	4.5	16
17	12	5.5	7.7	---	---	---	---	---	---	8.7	3.5	5.7
18	12	5.5	7.9	13	5.9	8.3	---	---	---	8.7	3.5	5.4
19	16	6.1	8.6	37	8.7	18	---	---	---	8.0	3.3	5.3
20	25	6.2	14	30	11	16	---	---	---	14	2.9	6.2
21	25	4.7	7.8	28	13	19	---	---	---	15	3.0	6.6
22	13	4.4	7.1	45	22	31	---	---	---	14	3.1	6.3
23	12	3.8	7.1	56	21	40	---	---	---	---	---	---
24	10	4.8	7.0	---	---	26	---	---	---	7.8	<2.0	3.3
25	9.9	4.9	7.5	---	---	46	---	---	---	5.9	2.2	3.5
26	9.7	4.7	7.3	---	---	77	---	---	---	7.6	2.3	3.7
27	12	6.0	8.3	---	---	---	---	---	---	5.6	<2.0	3.0
28	---	---	---	---	---	---	---	---	---	6.0	<2.0	3.9
29	---	---	---	14	4.5	9.6	---	---	---	6.0	2.6	4.0
30	---	---	---	6.9	<2.0	<2.0	---	---	---	7.0	2.6	4.2
31	---	---	---	---	---	---	---	---	---	---	---	---

MONTH

YEAR

THIS PAGE IS INTENTIONALLY BLANK.

GREEN RIVER BASIN

03310300 NOLIN RIVER AT WHITE MILLS, KY

LOCATION.--Lat 37°33'43", long 86°02'12" (revised), Hardin County, Hydrologic Unit 05110001, on right bank, 0.8 mi southwest of White Mills, 1.6 mi downstream from bridge on State Highway 84, and at mile 78.7.

DRAINAGE AREA.--360 mi² (revised), of which about 120 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 590.37 ft above NGVD of 1988. Prior to June 8, 2005, gage located 1.6 mi downstream at datum 7.29 ft lower. Prior to Jan. 8, 1960, nonrecording gage at same site and datum.

REMARKS.--Records fair except for those estimated, which are poor.

COOPERATION.--Kentucky Natural Resources and Environmental Protection Cabinet.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft³/s and maximum(*).

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 11	unknown	unknown	unknown	Mar 29	0100	*5,600	*18.38
Dec 6	1930	2,940	11.18	Aug 31	1115	3,350	9.15
Jan 8	1445	1,720	6.82				

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	e78	e592	e1,480	1,820	473	702	1,220	1,010	207	90	73	854
2	e70	e1,150	e744	1,560	442	603	1,560	682	203	89	70	464
3	e67	e1,420	e439	1,620	439	537	1,530	553	201	84	70	325
4	e63	e506	e379	1,650	433	505	1,180	478	202	83	69	252
5	e69	e305	e506	2,220	406	494	1,010	425	191	83	65	208
6	e69	e230	e722	2,360	385	473	877	388	178	85	64	180
7	e63	e163	e1,260	2,390	378	465	790	358	169	81	62	161
8	e63	e141	e2,110	3,270	418	1,240	758	330	e149	102	74	149
9	e63	e103	e1,700	2,800	461	1,040	682	311	143	92	73	139
10	e64	e141	e1,500	1,830	457	801	613	292	156	84	66	129
11	e63	e469	e1,220	1,520	433	709	564	275	147	87	62	120
12	e64	e1,910	e908	1,320	416	651	536	260	169	137	57	113
13	e66	e804	e856	1,200	520	588	590	248	162	128	57	108
14	e67	e491	e782	1,920	1,300	522	527	255	150	141	57	105
15	e67	e327	e752	1,480	1,120	474	468	849	173	131	59	99
16	e67	e297	710	1,210	923	439	428	360	161	120	63	94
17	e67	e275	648	1,030	780	414	400	292	141	135	78	95
18	e93	e238	593	891	675	393	377	263	129	324	83	92
19	e182	e454	547	e831	598	374	356	246	123	192	77	90
20	e111	e938	491	e779	562	360	341	1,390	115	138	78	87
21	e72	e566	451	716	781	340	319	881	112	181	70	83
22	e62	e409	535	656	872	326	309	544	110	172	67	79
23	e75	e417	1,850	599	729	372	497	442	107	145	65	78
24	e91	e514	1,600	539	667	420	347	378	101	120	60	74
25	e89	e923	e1,160	513	613	369	305	334	98	106	57	74
26	e93	e566	858	496	557	341	288	304	95	97	62	78
27	e101	e514	727	465	516	887	314	281	93	94	78	84
28	e108	e461	638	423	516	4,340	290	260	109	90	79	79
29	e115	e439	671	428	---	4,310	302	245	96	86	142	78
30	e122	e469	1,390	553	---	1,950	1,410	231	92	82	1,160	76
31	e204	---	2,240	524	---	1,490	---	218	---	76	2,500	---
TOTAL	2,648	16,232	30,467	39,613	16,870	26,929	19,188	13,383	4,282	3,655	5,697	4,647
MEAN	85.4	541	983	1,278	602	869	640	432	143	118	184	155
MAX	204	1,910	2,240	3,270	1,300	4,340	1,560	1,390	207	324	2,500	854
MIN	62	103	379	423	378	326	288	218	92	76	57	74

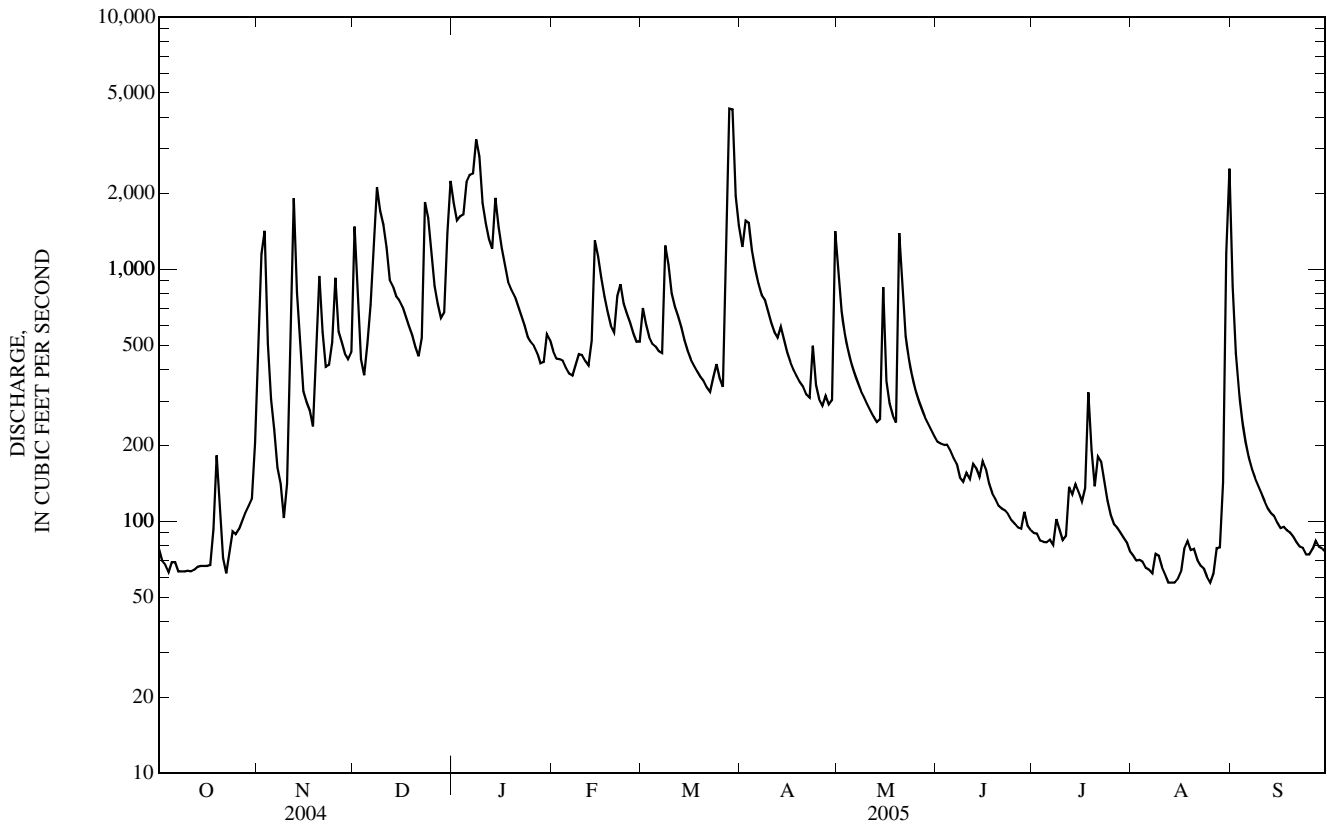
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2005, BY WATER YEAR (WY)

MEAN	158	300	623	685	871	966	751	605	369	244	180	207
MAX	692	1,206	2,356	1,603	3,807	3,353	2,447	2,715	1,630	972	966	2,258
(WY)	(1978)	(1989)	(1979)	(1974)	(1989)	(1997)	(1972)	(1983)	(1997)	(1967)	(1967)	(1979)
MIN	37.0	44.3	44.7	55.5	156	228	200	131	71.9	83.2	48.6	35.6
(WY)	(1970)	(2000)	(1964)	(1981)	(1964)	(1983)	(1986)	(1976)	(1988)	(1994)	(1999)	(1999)

03310300 NOLIN RIVER AT WHITE MILLS, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1960 - 2005	
ANNUAL TOTAL	241,333		183,611		495	
ANNUAL MEAN	659		503		217	
HIGHEST ANNUAL MEAN					1979	
LOWEST ANNUAL MEAN					1999	
HIGHEST DAILY MEAN	7,760	May 28	4,340	Mar 28	20,000	Mar 2, 1997
LOWEST DAILY MEAN	62	Oct 22	57	Aug 12	27	Oct 23, 1998
ANNUAL SEVEN-DAY MINIMUM	64	Oct 7	60	Aug 10	31	Oct 17, 1998
MAXIMUM PEAK FLOW			5,600	Mar 29	24,500	Mar 2, 1997
MAXIMUM PEAK STAGE			18.38	Mar 29	36.46	Mar 2, 1997
INSTANTANEOUS LOW FLOW			50	Aug 14	31	Oct 1, 1959
ANNUAL RUNOFF (CFSM)	2.78		2.12		2.09	
ANNUAL RUNOFF (INCHES)	37.88		28.82		28.36	
10 PERCENT EXCEEDS	1,450		1,230		1,080	
50 PERCENT EXCEEDS	439		330		248	
90 PERCENT EXCEEDS	121		71		61	

e Estimated



GREEN RIVER BASIN

03311000 NOLIN RIVER AT KYROCK, KY

LOCATION.--Lat 37°16'27", long 86°15'03", Edmonson County, Hydrologic Unit 0511001, 0.35 mo below Nolin River, 0.1 mi downstream from Dismal Creek, 1.1 mi nirsteast of Kyrock, and at mile 7.8.

DRAINAGE AREA.--703 mi², of which about 223 mi² does not contribute directly to surface runoff. Area at site used Oct. 1, 1969 to Sept. 30, 1973, 707 mi².

WATER-QUALITY RECORD

PERIOD OF DAILY RECORD.--Water years 1950, 1963-82, August 1989-95, October 2003 to current year.

INSTRUMENTATION.--Water-temperature recorder with telemetry since DCP was installed on Oct. 1989.

COOPERATION.--U. S. Army Corps of Engineers, Louisville District.

EXTREMES FOR PERIOD OF DAILY RECORD.--Maximum recorded 31.0°C, Jul. 19-22, 1969, minimum recorded 0.0°C, many days during winter period.

EXTREMES FOR CURRENT YEAR.--Maximum recorded 21.0°C, Aug. 28; minimum recorded 7.0°C, Feb. 12.

REMARKS.--Water-temperature records rated excellent except for periods of no record.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.9	20.4	20.6	18.2	18.1	18.1	13.6	13.4	13.5	7.9	7.7	7.8
2	21.0	20.9	21.0	18.2	18.1	18.1	13.4	13.2	13.3	7.7	7.6	7.7
3	21.0	20.6	20.7	18.1	18.0	18.0	13.2	13.0	13.1	7.7	7.5	7.6
4	20.6	19.7	20.1	18.1	18.0	18.0	13.1	13.0	13.0	7.6	7.6	7.6
5	19.8	18.8	19.2	18.0	18.0	18.0	13.0	12.8	12.9	7.6	7.6	7.6
6	19.0	17.9	18.3	18.0	17.9	17.9	12.9	12.8	12.8	7.6	7.5	7.6
7	18.2	17.6	17.9	17.9	17.8	17.8	12.8	12.8	12.8	7.7	7.5	7.6
8	18.3	18.0	18.1	17.8	17.7	17.7	12.8	12.6	12.7	7.8	7.6	7.7
9	18.4	18.1	18.2	17.7	17.6	17.6	12.6	12.5	12.6	7.8	7.8	7.8
10	18.4	18.1	18.2	17.6	17.4	17.5	12.5	12.4	12.5	7.9	7.8	7.8
11	18.3	18.0	18.2	17.4	17.3	17.4	12.4	12.3	12.3	8.0	7.9	8.0
12	18.1	17.5	17.7	17.3	17.0	17.1	12.3	12.1	12.2	8.1	8.0	8.0
13	17.6	17.4	17.4	17.0	16.9	16.9	12.1	12.0	12.0	8.1	8.0	8.1
14	17.9	17.4	17.6	16.9	16.7	16.8	12.0	11.7	11.8	8.2	8.1	8.1
15	17.9	17.4	17.7	16.7	16.5	16.6	11.7	11.4	11.5	8.1	8.1	8.1
16	17.4	16.7	17.0	16.5	16.3	16.4	11.4	11.1	11.2	8.1	8.1	8.1
17	16.7	15.8	16.2	16.3	16.1	16.2	11.1	10.9	11.0	8.1	8.0	8.0
18	16.0	15.2	15.7	16.1	16.0	16.0	10.9	10.8	10.8	---	---	---
19	17.3	15.8	16.6	16.0	15.7	15.8	10.8	10.7	10.7	---	---	---
20	17.9	17.3	17.6	15.7	15.4	15.5	10.7	10.5	10.6	8.5	8.4	8.4
21	18.1	17.9	18.0	15.4	15.1	15.2	10.5	10.3	10.4	8.5	8.4	8.5
22	18.3	18.1	18.3	15.1	14.9	15.0	10.3	10.1	10.2	8.5	8.4	8.5
23	18.4	18.3	18.4	14.9	14.7	14.8	---	---	---	8.5	8.3	8.4
24	18.4	18.4	18.4	14.7	14.5	14.6	9.6	9.4	9.5	8.3	8.2	8.3
25	18.4	18.3	18.4	14.5	14.2	14.4	9.4	9.1	9.3	8.2	8.1	8.1
26	18.4	18.4	18.4	14.3	14.1	14.2	9.1	8.9	9.0	8.1	8.1	8.1
27	18.4	18.4	18.4	14.1	14.0	14.1	8.9	8.5	8.7	8.1	8.1	8.1
28	18.4	18.4	18.4	14.0	13.8	13.9	8.5	8.3	8.4	8.1	8.1	8.1
29	18.4	18.3	18.4	13.8	13.7	13.7	8.3	8.1	8.2	8.1	8.0	8.0
30	18.4	18.3	18.3	13.7	13.6	13.7	8.1	7.9	8.0	8.0	7.9	7.9
31	18.3	18.2	18.2	---	---	---	8.0	7.8	7.9	7.9	7.7	7.8
MONTH	21.0	15.2	18.2	18.2	13.6	16.2	13.6	7.8	11.1	8.5	7.5	8.0

03311500 GREEN RIVER AT LOCK 6 AT BROWNSVILLE, KY

LOCATION.--Lat 37°12'25", long 85°15'40", Edmonson County, Hydrologic Unit 05110001, on right bank 200 ft upstream from Lock and Dam 6, 0.8 mi downstream from Indian Creek, 1.0 mi northeast of Brownsville, 1.8 mi downstream from Nolin River, and at mile 181.7.

DRAINAGE AREA.--2,762 mi², of which about 600 mi² does not contribute directly to surface runoff.

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--December 1999 to current year.

INSTRUMENTATION.--Temperature recorder with telemetry.

COOPERATION.--U. S. Army Corps of Engineers, Louisville District and Nature Conservancy.

EXTREMES FOR PERIOD OF DAILY RECORD.--Maximum recorded 29.0°C, July 7, 2002, minimum recorded 2.0°C, Jan. 3, 4, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum recorded 22.8°C, Aug. 30; minimum recorded 8.4°C, Jan. 25-26.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.6	19.3	19.4	17.6	17.5	17.6	12.6	12.1	12.4	9.6	9.3	9.5
2	19.3	19.2	19.3	17.7	17.6	17.6	12.4	12.3	12.3	9.5	9.4	9.5
3	19.4	19.2	19.3	17.7	17.6	17.7	12.8	12.3	12.6	9.7	9.3	9.5
4	19.3	19.0	19.1	17.6	17.3	17.5	12.8	12.6	12.7	10.3	9.7	10.0
5	19.0	18.7	18.9	17.3	16.8	17.1	12.7	12.2	12.5	10.8	10.3	10.6
6	18.8	18.2	18.4	16.8	16.6	16.6	12.2	11.9	12.0	11.1	10.8	10.9
7	18.2	17.9	18.1	16.6	16.3	16.4	12.1	11.8	12.0	11.2	11.1	11.2
8	18.3	18.1	18.2	16.3	16.1	16.2	12.3	12.1	12.2	11.3	11.2	11.2
9	18.4	18.3	18.3	16.1	15.9	16.0	12.7	12.3	12.5	11.2	11.1	11.2
10	18.5	18.3	18.4	16.0	15.9	16.0	12.9	12.7	12.9	11.2	11.0	11.1
11	18.5	18.2	18.3	16.1	15.9	16.0	12.8	12.8	12.8	11.3	11.2	11.3
12	18.3	17.9	18.1	15.9	15.7	15.8	12.8	12.7	12.8	11.4	11.3	11.3
13	18.0	17.9	18.0	15.7	15.3	15.6	12.8	12.6	12.7	11.6	11.4	11.5
14	17.9	17.5	17.7	15.3	15.1	15.2	12.7	12.2	12.5	11.7	11.6	11.6
15	17.5	17.2	17.4	15.1	15.0	15.1	12.2	11.7	11.9	11.7	11.7	11.7
16	17.2	16.8	17.0	15.0	14.9	15.0	11.7	11.4	11.5	11.7	11.5	11.6
17	16.8	16.3	16.5	15.0	14.9	14.9	11.4	11.1	11.2	11.5	10.9	11.3
18	16.4	16.1	16.3	14.9	14.6	14.7	11.1	11.0	11.0	10.9	10.3	10.6
19	16.4	16.2	16.3	14.6	14.4	14.5	11.0	10.8	10.9	10.3	9.6	10.0
20	16.7	16.3	16.6	14.4	14.3	14.4	10.9	10.7	10.8	9.6	9.2	9.4
21	16.8	16.7	16.8	14.3	14.2	14.3	10.9	10.5	10.7	9.2	9.0	9.0
22	17.0	16.8	16.9	14.3	14.2	14.2	10.5	10.3	10.4	9.0	8.8	8.9
23	17.1	16.9	17.0	14.3	14.2	14.2	---	---	---	8.8	8.6	8.7
24	17.2	17.0	17.1	14.2	14.2	14.2	9.7	9.4	9.6	8.6	8.5	8.6
25	17.3	17.2	17.2	14.2	13.9	14.1	9.9	9.3	9.6	8.5	8.4	8.4
26	17.2	17.1	17.2	13.9	13.6	13.7	10.0	9.6	9.8	8.5	8.4	8.4
27	17.3	17.1	17.2	13.6	13.3	13.5	9.6	9.3	9.4	8.6	8.4	8.5
28	17.4	17.2	17.3	13.3	13.0	13.1	---	---	---	8.7	8.5	8.6
29	17.6	17.4	17.5	13.0	12.9	12.9	---	---	---	8.8	8.6	8.7
30	17.7	17.5	17.6	12.9	12.6	12.8	9.2	9.0	9.1	8.8	8.6	8.7
31	17.7	17.6	17.7	---	---	---	9.5	9.2	9.3	8.7	8.5	8.6
MONTH	19.6	16.1	17.7	17.7	12.6	15.2				11.7	8.4	10.0

03313000 BARREN RIVER NEAR FINNEY, KY

LOCATION.--Lat 36°53'42", long 86°08'02", Allen County, Hydrologic Unit 05110002, on left bank 1,200 ft upstream from Lock and Dam 6, 0.8 mi downstream from Port Oliver Ford, 2,500 ft upstream from Difficult Creek, 0.5 mi downstream from Barren River Dam, 2.1 mile southwest of Finney, and at mile 78.7.

DRAINAGE AREA.--942 mi² revised, of which about 77 mi² does not contribute directly to surface runoff.

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--January 1990 to September 1994. October 2003 to current year.

INSTRUMENTATION.--Temperature recorder with telemetry since 1990.

COOPERATION.--U. S. Army Corps of Engineers, Louisville District.

EXTREMES FOR PERIOD OF DAILY RECORD.--Maximum recorded 26.0°C, Jul. 20, 1992, minimum recorded 2.1°C, Jan. 20-22, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum recorded 21.6°C, Oct. 2-4; minimum recorded 4.4°C, Feb. 2-5.

EXTREMES OUTSIDE PUBLISHED RECORD.--Maximum recorded 27.8°C, Aug. 19, 2000; minimum recorded 1.4°C, Feb. 6, 1996.

REMARKS.--Water-temperature records rated good.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.7	20.2	20.5	18.9	18.3	18.6	12.4	11.9	12.1	5.5	5.3	5.4
2	21.6	20.3	20.8	---	---	18.7	11.9	11.4	11.7	5.6	5.2	5.4
3	21.6	21.0	21.3	---	---	18.2	11.5	11.0	11.2	5.6	5.3	5.4
4	21.6	20.8	21.1	18.4	17.8	18.1	11.0	10.8	10.9	5.5	5.1	5.3
5	21.3	20.6	20.9	17.9	17.4	17.7	11.0	10.8	10.9	5.9	5.2	5.6
6	21.2	20.9	21.0	17.5	17.4	17.5	11.2	10.8	10.9	5.8	5.1	5.4
7	21.4	20.9	21.1	17.6	17.2	17.5	11.2	11.0	11.1	5.4	5.1	5.2
8	21.2	21.0	21.1	17.2	16.8	17.0	11.4	10.7	11.0	5.3	5.0	5.2
9	21.1	20.8	21.0	16.8	16.4	16.6	11.4	10.7	11.0	5.5	5.2	5.4
10	21.1	20.5	20.8	16.4	16.1	16.3	11.6	10.9	11.2	5.7	5.4	5.5
11	20.8	20.2	20.4	16.5	16.0	16.3	10.9	10.4	10.7	6.1	5.4	5.7
12	20.6	20.2	20.5	16.5	16.0	16.3	10.7	10.2	10.6	6.6	6.0	6.3
13	20.7	20.3	20.5	16.0	15.2	15.6	10.6	10.2	10.4	6.9	6.0	6.6
14	20.3	20.0	20.2	15.2	14.9	15.1	10.2	9.7	9.9	6.1	5.8	6.0
15	20.0	19.5	19.7	15.1	14.8	14.9	9.7	9.4	9.5	6.3	5.9	6.1
16	19.5	19.0	19.3	15.0	14.8	14.9	9.4	9.2	9.3	6.1	5.8	6.0
17	19.0	18.9	19.0	15.0	14.7	14.9	9.3	9.1	9.2	5.9	5.6	5.7
18	19.3	19.0	19.1	14.7	14.4	14.5	9.1	9.0	9.0	5.7	5.5	5.6
19	19.3	19.1	19.1	14.5	14.3	14.4	9.1	8.4	8.8	5.5	5.4	5.5
20	19.1	18.9	19.0	14.3	13.9	14.1	8.4	7.8	8.1	5.5	5.4	5.4
21	18.9	18.8	18.8	14.1	13.9	14.0	7.8	7.7	7.7	5.5	5.3	5.4
22	18.9	18.8	18.8	---	---	13.9	---	---	7.7	5.3	5.1	5.3
23	18.9	18.7	18.8	14.0	13.7	13.9	---	---	---	5.1	4.8	4.9
24	18.8	18.4	18.7	14.5	13.2	14.1	7.2	6.9	7.1	4.8	4.7	4.8
25	18.5	18.3	18.4	13.2	12.9	13.1	6.9	6.7	6.8	4.8	4.7	4.7
26	18.7	18.3	18.5	13.1	12.9	13.0	6.7	6.6	6.6	4.9	4.8	4.8
27	18.7	18.5	18.6	---	---	12.7	6.6	6.3	6.4	4.9	4.7	4.8
28	18.8	18.5	18.6	12.5	12.3	12.4	6.3	5.9	6.1	4.7	4.5	4.6
29	18.9	18.6	18.7	12.4	12.3	12.3	5.9	5.6	5.8	4.6	4.5	4.5
30	18.9	18.1	18.6	12.5	12.3	12.4	5.7	5.5	5.6	---	---	4.5
31	18.4	17.9	18.1	---	---	---	---	---	5.6	4.5	4.5	4.5
MONTH	21.6	17.9	19.7			15.3						5.3

03314500 BARREN RIVER AT BOWLING GREEN, KY

LOCATION.--Lat 37°00'04", long 86°25'51", Warren County, Hydrologic Unit 05110002, near center of downstream side of abandoned College Street bridge, 700 ft upstream from bridge on U.S. Highways 31W and 68 at Bowling Green, 6.0 mi downstream from Drakes Creek, 8.9 mi upstream from Jennings Creek, and at mile 37.6.

DRAINAGE AREA.--1,849 mi², of which about 490 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--June 1938 to September 1994, March 2002 to current year. Gage-height records collected in vicinity since 1901 are published in reports of National Weather Service (prior to 1940 records are for site about 7 mi downstream and are fragmentary prior to July 1924).

REVISED RECORDS.--WSP 1385; 1943, 1945, 1946(M). WRD KY-80-1; Drainage area.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 409.83 ft above NGVD of 1929. Prior to June 21, 1944, nonrecording gage at same site and datum.

REMARKS.--Records fair except those estimated, which are poor. Flow regulated by Barren River Lake beginning March 1964.

COOPERATION.--U.S. Army Corps of Engineers, Louisville District and National Streamflow Information Program.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 8, 1913 reached a stage of 52.2 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	1,170	3,510	11,100	4,700	e4,470	5,140	1,840	10,200	699	212	182	11,200
2	769	3,500	7,200	5,340	e4,670	4,990	5,950	4,180	698	206	180	4,610
3	502	3,460	5,400	5,990	4,700	4,770	5,040	4,080	702	203	175	5,060
4	346	3,370	5,240	5,850	4,700	4,660	3,370	4,260	696	199	172	4,700
5	235	3,310	4,910	4,600	4,660	4,580	2,500	4,060	682	205	166	4,390
6	249	3,270	4,980	4,310	4,610	4,490	1,960	3,840	658	205	162	4,200
7	328	3,240	7,270	5,480	4,580	4,470	1,630	3,690	671	213	161	4,050
8	425	3,200	11,700	10,200	4,630	5,020	1,630	3,580	635	211	159	3,940
9	566	3,170	5,300	8,660	4,730	5,110	1,820	3,480	623	202	159	3,850
10	571	3,140	7,440	4,840	4,710	4,840	1,390	3,410	626	194	158	3,780
11	572	3,260	4,580	3,690	4,610	4,940	e1,050	3,650	634	204	157	3,720
12	658	4,230	3,100	4,300	4,530	4,380	e760	3,730	702	214	157	3,660
13	722	4,130	3,470	3,860	4,790	3,890	e1,000	3,750	696	276	157	3,550
14	730	3,750	4,450	6,180	6,240	3,390	e1,100	3,990	685	379	156	2,100
15	1,420	3,490	4,950	4,900	6,250	3,190	e900	4,070	659	591	154	855
16	2,060	3,330	4,890	3,470	5,710	2,810	e800	4,020	628	692	155	1,060
17	2,060	3,240	4,750	2,690	5,310	2,450	e700	2,720	510	732	165	1,170
18	2,160	3,170	4,650	3,030	5,010	2,350	e650	1,520	422	738	322	1,160
19	3,330	3,130	4,560	4,230	4,800	2,040	e600	1,000	403	930	468	1,140
20	2,870	3,080	4,470	4,870	4,760	1,840	e550	3,270	393	1,050	699	1,120
21	3,150	3,020	4,380	4,850	7,320	1,790	e580	4,080	336	1,050	702	1,100
22	3,150	2,730	e3,200	4,720	8,310	1,480	647	3,270	255	1,200	641	1,090
23	3,080	2,650	e5,370	4,580	6,650	1,350	759	3,590	244	1,190	608	1,080
24	3,110	2,700	e6,260	4,480	5,810	1,290	745	3,810	229	1,090	590	1,070
25	3,090	3,310	e3,930	4,410	5,410	1,240	696	3,740	221	744	588	1,060
26	3,040	3,080	3,070	4,370	5,090	1,200	680	3,650	220	605	732	1,080
27	3,010	3,350	2,650	4,310	4,870	1,210	816	3,540	221	417	798	845
28	3,320	2,810	3,830	4,240	4,850	4,310	953	2,110	224	217	753	622
29	3,680	2,580	4,800	e4,170	---	4,360	1,090	963	219	192	1,610	626
30	3,630	3,390	5,080	e4,480	---	2,850	6,710	762	214	185	13,200	605
31	3,490	---	5,060	e4,600	---	2,110	---	724	---	183	20,300	---
TOTAL	57,493	97,600	162,040	150,400	146,780	102,540	48,916	106,739	14,805	14,929	44,786	78,493
MEAN	1,855	3,253	5,227	4,852	5,242	3,308	1,631	3,443	494	482	1,445	2,616
MAX	3,680	4,230	11,700	10,200	8,310	5,140	6,710	10,200	702	1,200	20,300	11,200
MIN	235	2,580	2,650	2,690	4,470	1,200	550	724	214	183	154	605

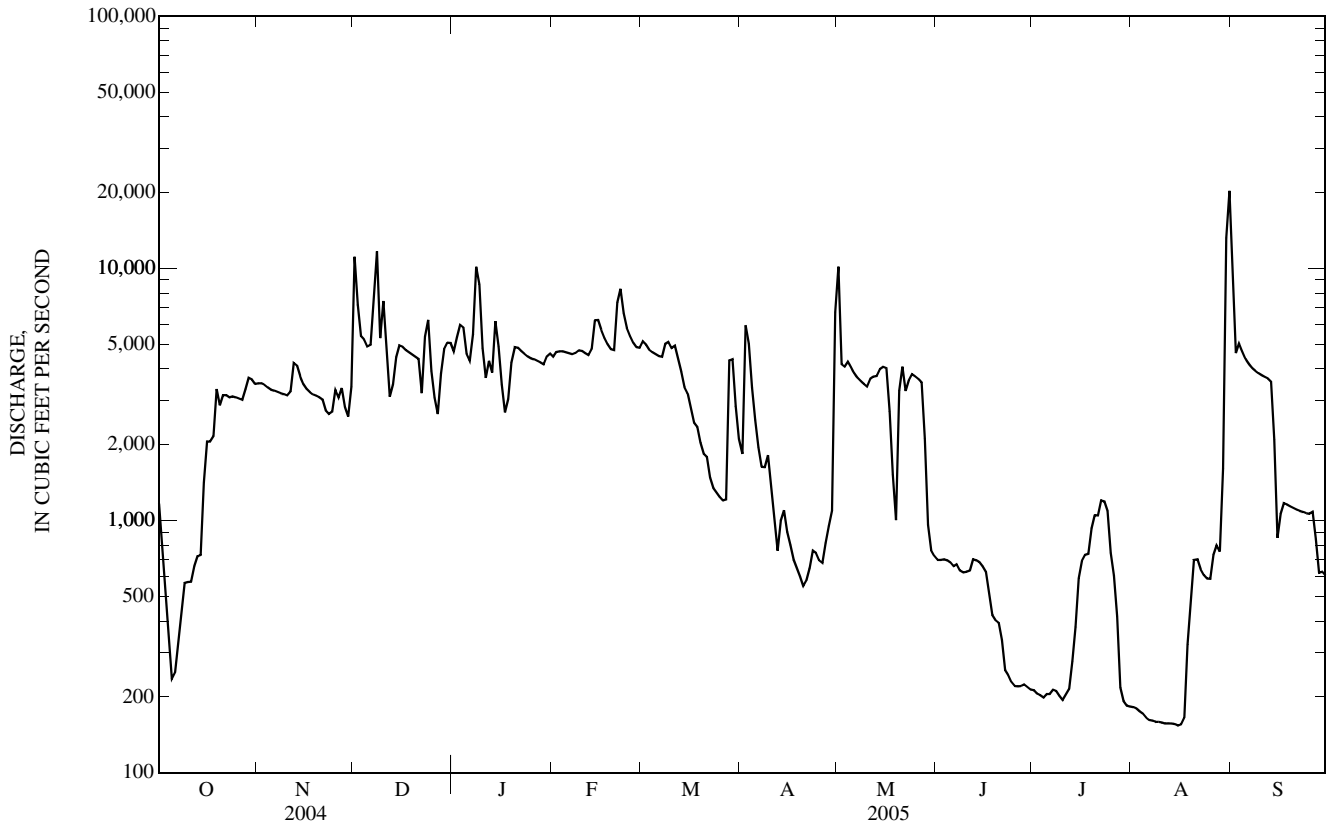
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2005, BY WATER YEAR (WY)

MEAN	1,862	3,150	3,984	4,317	4,848	4,052	3,000	2,861	2,082	1,490	902	1,282
MAX	4,027	6,097	9,210	9,141	9,830	10,450	8,368	9,408	5,825	5,059	3,468	5,358
(WY)	(1975)	(1980)	(1979)	(1979)	(1989)	(1975)	(1979)	(1983)	(1981)	(1989)	(1971)	(1979)
MIN	381	286	573	228	1,624	1,128	379	247	102	118	110	251
(WY)	(1977)	(1977)	(1981)	(1981)	(1992)	(1981)	(1986)	(1988)	(1988)	(1988)	(1991)	(1993)

03314500 BARREN RIVER AT BOWLING GREEN, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1965 - 2005	
ANNUAL TOTAL	1,129,523		1,025,521			
ANNUAL MEAN	3,086		2,810		2,813	
HIGHEST ANNUAL MEAN					5,001 1979	
LOWEST ANNUAL MEAN					1,292 1988	
HIGHEST DAILY MEAN	16,100	Feb 6	20,300	Aug 31	57,500	Mar 13, 1975
LOWEST DAILY MEAN	235	Oct 5	154	Aug 15	75	Jul 9, 1988
ANNUAL SEVEN-DAY MINIMUM	379	Oct 3	156	Aug 10	76	Jul 6, 1988
MAXIMUM PEAK FLOW			21,400	Aug 31	85,000	Feb 28, 1962
MAXIMUM PEAK STAGE			27.42	Aug 31	49.55	Feb 28, 1962
INSTANTANEOUS LOW FLOW					44	Sep 19, 1954
10 PERCENT EXCEEDS	5,180		5,070		5,910	
50 PERCENT EXCEEDS	3,120		3,030		2,140	
90 PERCENT EXCEEDS	702		221		300	

e Estimated



03316500 GREEN RIVER AT PARADISE, KY

LOCATION.--Lat 37°15'50", long 86°58'40", Muhlenberg County, Hydrologic Unit 05110003, on left bank of reservation of Tennessee Valley Authority generating plant, 0.4 mi southeast of Paradise, 1.1 mi downstream from Jacobs Creek, 2.8 mi upstream from Pond Creek, and at mile 98.8.

DRAINAGE AREA.--6,183 mi², of which about 1,380 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1939 to September 1950 (published as "at Green River"), October 1959 to September 1960 (low-water records only), October 1960 to September 1981 and July 1991 to current year.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 363.19 ft above NGVD of 1929 (levels by Tennessee Valley Authority). See WDR KY-81-1 for history of changes prior to October 31, 1979. Auxiliary water-stage recorder on U.S. Highway 62 bridge at Rockport, 4.4 mi downstream.

REMARKS.--Records fair except for those below 2000 ft³/s, which are poor. Flow regulated by Nolin River Lake beginning March 1963, Barren River Lake beginning March 1964 and Green River Lake beginning February 1969.

COOPERATION.--Kentucky Natural Resources and Environmental Protection Cabinet.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,090	6,410	20,700	e28,000	13,800	12,900	16,500	e19,000	2,420	1,040	977	e39,700
2	4,480	8,710	29,300	e26,000	12,800	13,200	17,500	e27,000	2,290	1,020	e909	38,700
3	4,430	11,900	32,600	e29,000	12,100	13,400	21,700	25,200	2,260	958	e866	28,400
4	3,340	11,400	29,400	e28,900	11,800	12,600	22,500	18,800	2,240	934	824	19,600
5	2,420	11,000	22,000	e29,000	11,400	11,900	19,400	e15,500	2,250	983	789	15,400
6	1,870	11,500	21,500	28,100	11,000	11,300	15,700	e14,000	2,280	971	779	12,800
7	1,540	11,900	27,200	29,600	10,300	11,100	13,900	e12,300	2,210	942	740	10,000
8	1,370	11,900	34,600	32,700	10,300	16,200	e13,000	e10,500	2,050	941	735	8,590
9	1,320	11,800	37,800	35,800	10,800	19,000	e12,000	e9,500	1,960	1,000	725	7,210
10	1,340	11,300	39,900	37,200	11,300	19,200	e10,900	e8,600	1,870	997	719	5,940
11	1,390	10,300	39,400	35,200	11,200	18,000	e9,800	7,640	1,910	1,010	684	5,150
12	1,450	18,200	35,300	27,200	10,800	16,200	e9,100	6,690	2,370	992	646	4,650
13	1,780	21,400	27,900	21,800	11,900	14,100	e9,200	6,140	3,750	1,060	616	4,330
14	2,460	17,400	23,600	22,800	e17,800	11,900	9,850	6,170	4,040	1,120	657	4,100
15	2,820	14,800	22,300	23,000	e21,600	9,920	10,200	6,350	3,430	1,260	724	3,060
16	2,910	12,800	e21,500	21,200	e22,300	8,230	e10,000	6,290	2,820	1,550	746	2,490
17	3,150	11,000	e21,000	18,200	e20,700	6,830	e8,000	6,230	2,420	2,010	e770	2,160
18	3,470	9,010	e20,000	16,100	18,500	5,860	e7,200	5,670	2,220	2,390	e811	2,180
19	4,100	8,390	e18,900	15,400	16,800	5,250	e6,200	4,620	1,960	e2,420	e895	2,160
20	6,450	8,610	e17,800	16,900	15,300	4,820	e5,300	e4,750	1,730	e2,350	948	2,150
21	7,080	8,220	e16,900	19,300	15,600	4,370	e4,550	e8,600	1,570	2,490	1,070	2,120
22	7,020	7,740	e17,500	20,900	19,600	4,160	e4,100	e14,000	1,470	e2,540	1,180	2,050
23	7,250	7,430	e20,900	21,900	22,800	4,460	3,800	e13,800	1,340	e2,570	1,240	2,040
24	7,220	9,650	e24,500	22,000	21,700	5,110	3,680	e11,700	1,260	e2,540	1,290	2,010
25	6,600	12,600	e27,500	21,600	18,500	5,080	3,450	e10,100	1,190	e2,450	1,380	2,000
26	6,270	12,600	e23,500	21,000	15,900	4,660	e3,350	e8,700	1,140	e2,210	1,910	2,070
27	6,090	13,000	e17,900	19,200	14,100	5,900	e3,430	e7,700	1,130	e1,920	2,790	2,040
28	5,910	14,100	e16,300	16,700	12,900	20,300	e3,650	e6,600	1,100	e1,670	2,450	1,960
29	5,880	14,000	e16,800	14,700	---	29,700	e4,500	e6,200	1,080	1,340	3,390	1,970
30	6,130	13,600	e21,400	14,400	---	28,800	e8,200	e3,700	1,060	1,170	e13,200	1,770
31	6,200	---	e26,000	14,200	---	22,300	---	e2,900	---	1,030	e32,800	---
TOTAL	127,830	352,670	771,900	728,000	423,600	376,750	290,660	314,950	60,820	47,878	78,260	238,800
MEAN	4,124	11,760	24,900	23,480	15,130	12,150	9,689	10,160	2,027	1,544	2,525	7,960
MAX	7,250	21,400	39,900	37,200	22,800	29,700	22,500	27,000	4,040	2,570	32,800	39,700
MIN	1,320	6,410	16,300	14,200	10,300	4,160	3,350	2,900	1,060	934	616	1,770

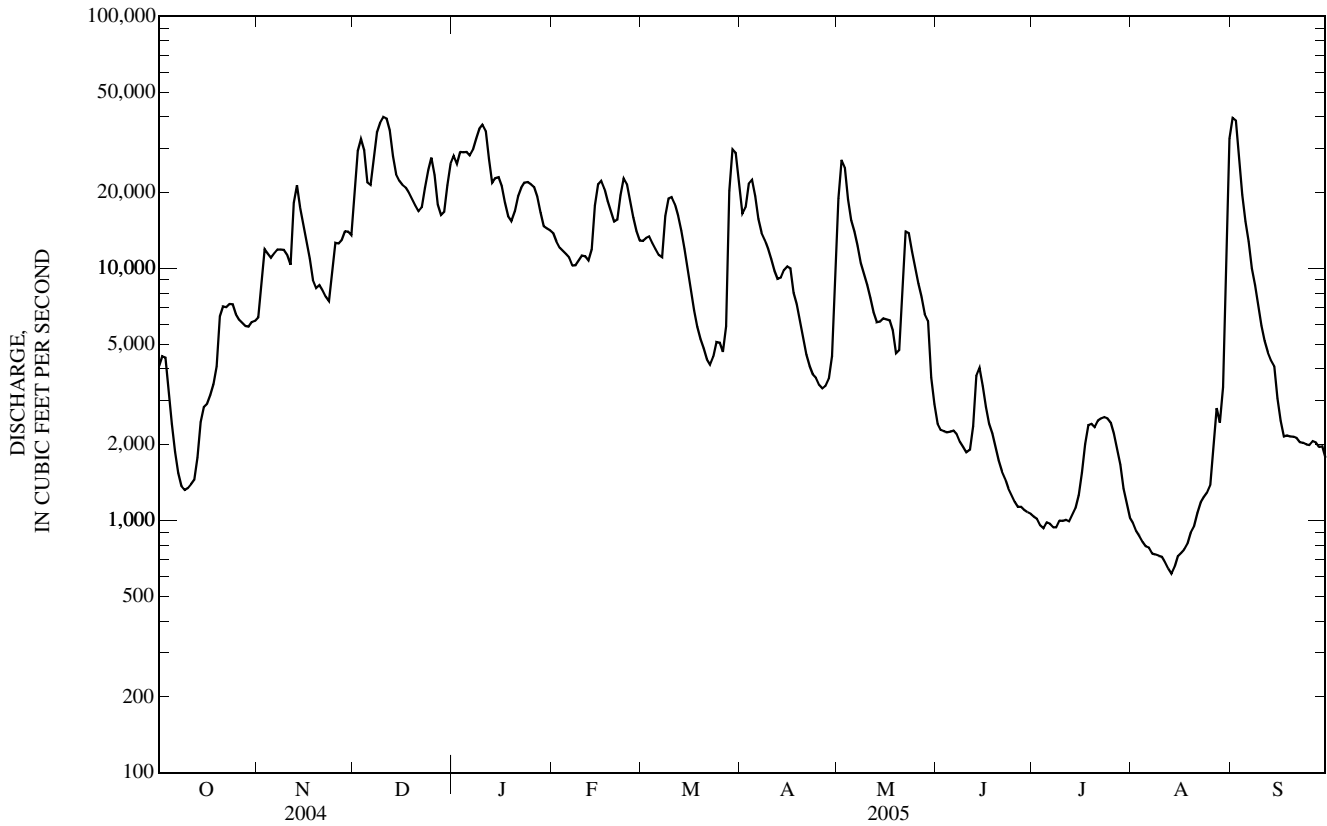
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2005, BY WATER YEAR (WY)

MEAN	5,037	8,266	13,650	15,790	15,870	16,690	13,130	10,550	7,768	3,722	2,711	3,906
MAX	16,950	19,310	42,250	36,020	26,410	41,520	34,210	25,950	20,190	8,811	8,743	22,540
(WY)	(1980)	(1980)	(1979)	(1974)	(1994)	(1997)	(1979)	(1995)	(1981)	(1973)	(1971)	(1979)
MIN	1,750	2,548	2,103	954	6,083	6,150	4,345	1,881	1,523	1,270	524	512
(WY)	(2001)	(2000)	(1981)	(1981)	(1977)	(1981)	(2001)	(2001)	(1999)	(2000)	(1999)	(1999)

03316500 GREEN RIVER AT PARADISE, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1970 - 2005	
ANNUAL TOTAL	4,296,650		3,812,118		9,771	
ANNUAL MEAN	11,740		10,440		4,432	
HIGHEST ANNUAL MEAN					18,460	1979
LOWEST ANNUAL MEAN					4,432	2001
HIGHEST DAILY MEAN	39,900	Dec 10	39,900	Dec 10	83,800	Mar 7, 1997
LOWEST DAILY MEAN	1,320	Oct 9	616	Aug 13	228	Oct 4, 2001
ANNUAL SEVEN-DAY MINIMUM	1,460	Oct 7	682	Aug 9	320	Sep 8, 1995
MAXIMUM PEAK FLOW			40,800	Sep 1	107,000	Mar 5, 1962
MAXIMUM PEAK STAGE			21.12	Sep 2	40.46	Mar 5, 1962
INSTANTANEOUS LOW FLOW					228	Oct 4, 2001
10 PERCENT EXCEEDS	24,500		22,900		22,700	
50 PERCENT EXCEEDS	8,630		7,700		6,060	
90 PERCENT EXCEEDS	2,380		1,080		1,340	

e Estimated



03318010 ROUGH RIVER AT ROUGH RIVER DAM NEAR FALLS OF ROUGH, KY

LOCATION.--Lat 37°37'19", long 86°30'15", Grayson County, Hydrologic Unit 05110004, on right bank 800 ft downstream from Rough River Dam, 1.5 mi upstream from Cane Run, 3.1 mi upstream from Rock Lick Creek, 3.5 mi northeast of Falls of Rough, and at mile 89.2.

DRAINAGE AREA.--454 mi², of which about 107 mi² does not contribute directly to surface runoff.

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--July 1962 to current year.

INSTRUMENTATION.--Water-temperature recorder with telemetry.

COOPERATION.--U. S. Army Corps of Engineers, Louisville District and The Nature Conservancy.

EXTREMES FOR PERIOD OF DAILY RECORD.--Maximum recorded 29.0°C, July 7, 2002, minimum recorded 2.0°C, Jan. 3, 4, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum recorded 21.5°C, Sept. 7; minimum recorded 3.6°C, Dec. 28,

REMARKS.--Water-temperature records rated good.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.6	20.2	20.4	18.4	17.9	18.1	---	---	10.9	4.5	4.3	4.4
2	20.4	20.2	20.3	18.4	18.0	18.2	10.8	10.4	10.6	5.1	4.3	4.8
3	20.5	20.1	20.3	18.0	17.8	17.9	10.4	10.0	10.2	5.4	5.0	5.2
4	20.4	20.0	20.2	17.9	17.5	17.7	10.0	9.7	9.8	5.4	4.9	5.2
5	20.3	19.9	20.1	17.5	17.2	17.3	9.7	9.5	9.6	6.2	4.9	5.5
6	20.2	19.8	20.0	17.2	17.0	17.1	10.1	9.6	9.8	6.0	5.3	5.5
7	20.1	19.8	19.9	17.0	16.7	16.8	10.2	10.0	10.1	5.3	5.1	5.1
8	20.1	19.6	19.8	16.7	16.3	16.5	10.0	9.7	9.8	5.2	5.1	5.1
9	20.0	19.6	19.8	16.5	16.1	16.3	9.9	9.7	9.8	5.9	5.2	5.6
10	20.0	19.8	19.9	16.2	15.9	16.0	9.9	9.8	9.9	6.0	5.7	5.8
11	20.1	19.9	20.0	15.9	15.5	15.7	9.9	9.5	9.7	6.7	5.8	6.2
12	19.9	19.8	19.8	15.5	15.0	15.3	9.5	9.3	9.4	7.2	5.8	6.5
13	19.8	19.5	19.7	15.0	14.6	14.8	9.3	8.9	9.1	8.6	6.3	7.4
14	19.6	19.3	19.5	14.6	14.2	14.4	8.9	8.4	8.7	6.6	6.2	6.4
15	19.3	19.1	19.2	14.4	14.0	14.1	8.4	8.1	8.3	6.7	6.1	6.4
16	19.1	18.7	18.9	14.0	13.8	14.0	8.1	7.8	7.9	6.5	6.3	6.4
17	18.7	18.4	18.5	---	---	13.8	---	---	7.7	6.4	6.1	6.2
18	18.4	18.3	18.4	---	---	---	---	---	7.4	6.4	6.0	6.2
19	18.3	18.1	18.3	---	---	---	7.3	6.7	7.0	6.3	6.1	6.2
20	---	---	18.1	---	---	---	6.7	6.1	6.4	6.4	6.3	6.3
21	18.0	17.9	17.9	---	---	---	6.4	6.0	6.2	6.4	6.2	6.3
22	18.1	17.9	18.0	---	---	---	6.3	5.4	6.0	6.3	5.9	6.1
23	18.2	18.0	18.1	---	---	12.9	5.5	4.7	5.1	5.9	5.7	5.8
24	18.1	17.9	18.0	---	---	13.3	4.7	4.3	4.5	5.7	5.5	5.6
25	17.9	17.8	17.9	13.1	12.4	12.6	4.3	3.9	4.1	5.9	5.5	5.7
26	17.9	17.8	17.9	12.4	12.1	12.3	4.0	3.8	3.9	5.8	5.6	5.7
27	17.9	17.8	17.9	12.1	11.9	12.0	3.8	3.7	3.7	5.6	5.4	5.5
28	18.0	17.8	17.8	11.9	11.7	11.8	4.0	3.6	3.8	5.4	5.3	5.4
29	18.1	17.9	18.0	11.7	11.3	11.5	4.1	3.7	3.9	5.4	5.3	5.3
30	18.4	17.9	18.2	---	---	---	4.2	3.9	4.0	5.4	5.3	5.3
31	18.0	17.9	18.0	---	---	---	4.5	4.2	4.4	5.4	5.3	5.3
MONTH			19.0						7.5	8.6	4.3	5.8

03320000 GREEN RIVER AT LOCK 2 AT CALHOUN, KY

LOCATION.--Lat 37°32'02", long 87°15'50", McLean County, Hydrologic Unit 05110005, 870 ft upstream from Lock and Dam 2, on right bank 0.2 mi downstream from bridge on State Highway 81 at Calhoun, 0.2 mi upstream from Long Falls Creek, and at mile 63.3.

DRAINAGE AREA.--7,566 mi², of which about 1,540 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--March 1930 to current year. Prior to October 1958, published as "at Livermore".

REVISED RECORDS.--WSP 1385: 1939. WDR KY-82-1: Drainage area.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 353.95 ft above NGVD of 1929. Auxiliary water-stage recorder at Livermore, 8.0 mi upstream at datum 360.11 ft above NGVD of 1929. See WDR KY-88-1 for history of changes prior to Sept. 30, 1958.

REMARKS.--Records good except for those estimated and discharges below 2,000 ft³/s, which are poor. Flow regulated by Rough River Lake, October 1959, Nolin Lake beginning March 1963, Barren River Lake beginning March 1964, and Green River Lake beginning February 1969.

COOPERATION.--U.S. Army Corps of Engineers, Louisville District.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,590	8,240	21,800	31,900	14,600	13,500	22,400	22,600	2,580	990	934	36,200
2	4,850	12,800	29,800	31,300	13,800	13,600	21,800	29,600	2,400	950	893	36,800
3	5,060	15,100	33,200	35,000	13,500	13,600	24,600	27,300	2,370	914	824	30,800
4	3,800	14,500	32,600	36,800	13,100	13,100	25,900	20,000	2,390	924	770	20,900
5	2,650	13,800	26,700	36,200	12,800	12,800	22,800	18,000	e2,400	953	739	17,000
6	2,040	13,800	23,400	34,600	12,700	12,400	18,200	e16,100	e2,420	942	721	15,200
7	1,700	14,300	28,700	35,300	12,200	12,300	15,700	e14,800	e2,300	892	684	12,600
8	1,510	14,300	35,500	36,300	12,400	15,900	15,400	e13,200	e2,150	899	674	10,900
9	1,430	14,300	38,500	37,700	12,800	18,700	14,000	e11,900	2,050	984	656	9,200
10	1,430	13,900	40,400	38,200	13,200	18,900	12,300	10,800	1,970	986	633	7,530
11	1,460	12,900	40,800	38,900	12,900	18,000	12,700	8,990	1,970	978	615	6,220
12	1,560	19,100	39,600	35,300	12,600	16,000	10,900	7,800	2,440	1,010	589	5,280
13	1,830	24,000	35,600	28,700	13,300	14,000	11,200	7,160	4,400	1,010	562	4,800
14	2,590	20,600	29,000	27,100	19,800	12,500	12,000	7,370	4,840	1,090	583	4,480
15	3,000	17,500	24,700	26,600	23,000	12,200	12,000	7,490	3,910	1,270	671	3,750
16	3,080	15,600	23,900	24,900	23,600	10,600	10,600	7,510	3,020	1,590	691	2,670
17	3,540	13,600	23,400	20,600	22,100	8,810	8,920	7,400	2,520	2,100	695	2,200
18	4,190	11,400	22,500	16,100	20,100	7,650	7,890	6,800	2,230	2,570	776	2,250
19	4,810	10,700	21,600	14,000	18,100	6,780	7,230	5,470	1,980	2,560	869	2,300
20	7,700	11,100	20,200	15,300	16,500	6,120	6,190	4,740	1,720	2,530	928	2,260
21	8,770	10,700	18,500	18,600	16,200	5,560	5,070	10,800	1,570	2,640	1,040	2,210
22	8,770	10,000	18,400	21,700	19,400	5,280	4,400	15,900	1,460	2,760	1,180	2,180
23	8,980	9,480	21,700	23,100	22,700	5,650	4,030	15,500	1,380	2,820	1,240	2,170
24	9,050	12,000	25,800	24,000	22,100	6,660	3,970	13,300	1,300	2,750	1,300	2,120
25	8,320	15,400	29,400	24,200	18,800	6,880	3,880	11,100	1,230	2,680	1,420	2,100
26	7,900	15,500	27,500	23,700	15,900	6,230	3,710	9,620	1,160	2,380	2,000	2,110
27	7,660	15,700	20,800	20,700	14,000	e7,900	3,740	8,470	1,140	1,890	3,060	2,110
28	7,510	16,400	17,400	17,200	13,500	e24,000	3,910	7,690	1,120	1,550	2,660	2,060
29	7,450	16,300	17,000	15,400	---	e35,000	4,760	6,440	1,100	1,330	3,160	2,000
30	7,660	16,300	21,100	15,200	---	33,500	11,900	4,500	1,060	1,140	13,200	1,820
31	7,760	---	30,100	14,900	---	28,700	---	3,180	---	1,010	30,300	---
TOTAL	152,650	429,320	839,600	819,500	455,700	422,820	342,100	361,530	64,580	49,092	75,067	254,220
MEAN	4,924	14,310	27,080	26,440	16,280	13,640	11,400	11,660	2,153	1,584	2,422	8,474
MAX	9,050	24,000	40,800	38,900	23,600	35,000	25,900	29,600	4,840	2,820	30,300	36,800
MIN	1,430	8,240	17,000	14,000	12,200	5,280	3,710	3,180	1,060	892	562	1,820

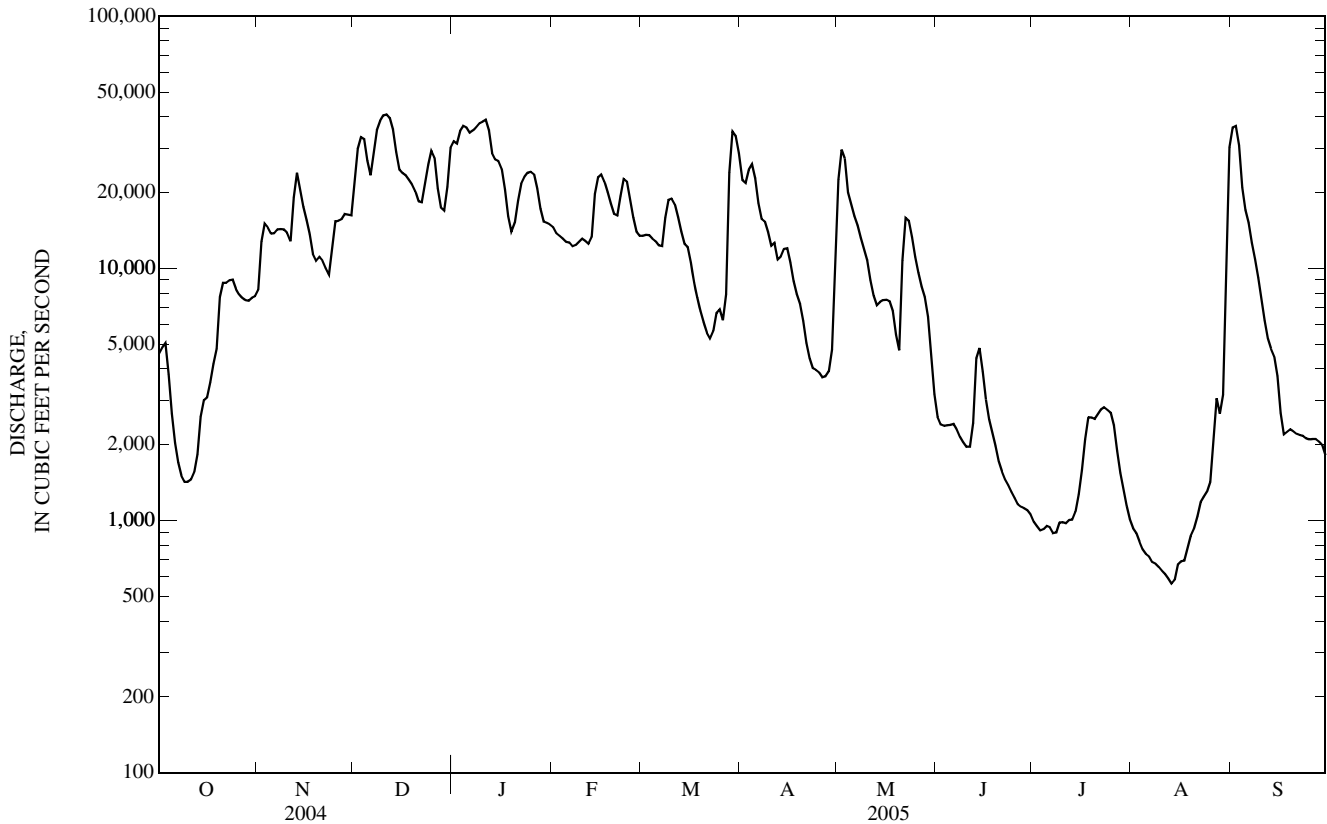
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2005, BY WATER YEAR (WY)

MEAN	5,594	10,440	16,750	18,590	21,600	19,550	15,350	13,450	8,873	4,465	2,875	4,352
MAX	19,100	22,770	46,530	41,100	52,100	53,330	42,430	50,460	23,850	12,260	8,763	27,360
(WY)	(1980)	(1980)	(1979)	(1974)	(1989)	(1997)	(1979)	(1983)	(1981)	(1989)	(1971)	(1979)
MIN	1,875	2,737	2,496	1,223	7,116	7,479	2,260	1,706	541	1,235	362	354
(WY)	(2000)	(2000)	(1981)	(1981)	(1977)	(1981)	(1986)	(1988)	(1988)	(2000)	(1999)	(1999)

03320000 GREEN RIVER AT LOCK 2 AT CALHOUN, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1970 - 2005	
ANNUAL TOTAL	4,990,730		4,266,179		11,770	
ANNUAL MEAN	13,640		11,690		5,345	
HIGHEST ANNUAL MEAN					22,070	1979
LOWEST ANNUAL MEAN					5,345	2000
HIGHEST DAILY MEAN	40,800	Dec 11	40,800	Dec 11	85,200	Mar 7, 1997
LOWEST DAILY MEAN	1,430	Oct 9	562	Aug 13	162	Sep 6, 1999
ANNUAL SEVEN-DAY MINIMUM	1,560	Oct 7	616	Aug 9	186	Sep 5, 1999
MAXIMUM PEAK FLOW			41,100	Dec 11	208,000	Jan 27, 1937
MAXIMUM PEAK STAGE			20.91	Dec 11	42.40	Jan 30, 1937
INSTANTANEOUS LOW FLOW					107	Sep 14, 1999
10 PERCENT EXCEEDS	29,400		27,200		29,500	
50 PERCENT EXCEEDS	10,700		9,200		7,260	
90 PERCENT EXCEEDS	2,610		1,080		1,410	

e Estimated



03320500 POND RIVER NEAR APEX, KY

LOCATION.--Lat 37°07'20", long 87°19'10", Muhlenberg County, Hydrologic Unit 05110006, on downstream side of bridge near right bank on State Highway 189, 1.1 mi downstream from Coal Creek, 2.1 mi northeast of Apex, 5.7 mi upstream from West Fork, and at mile 62.8.

DRAINAGE AREA.--194 mi².

PERIOD OF RECORD.--August 1940 to current year. October 1953 to September 1971, published as "East Fork Pond River near Apex".

REVISED RECORDS.--WSP 1083: 1942-46. WSP 1555: 1945-46(P), drainage area, WRD KY-93: 1989-91(P), WRD KY-97: 1989-96(P).

GAGE.--Water-stage recorder with telemetry. Datum of gage is 384.53 ft above NGVD of 1929. Prior to Aug. 21, 1942, non-recording gage at same site. Prior to Oct. 1, 1974, at datum 6.11 ft higher.

REMARKS.--Records fair except for those estimated, which are poor.

COOPERATION.--Kentucky Natural Resources and Environmental Protection Cabinet.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 2	1100	3,510	17.30	Mar 28	0600	4,910	18.39
Jan 6	0900	2,840	16.67	Sep 1	0200	*6,360	*19.32

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	0.71	50	1,510	2,080	166	241	693	1,250	23	6.7	2.5	e5,290
2	0.72	133	1,170	e2,540	143	222	782	751	24	6.3	2.1	e2,030
3	0.61	297	761	e2,540	214	178	672	439	34	6.2	1.9	1,300
4	0.58	191	449	2,050	248	150	482	267	45	5.7	1.7	815
5	0.57	107	280	1,950	203	132	328	176	32	7.9	1.5	511
6	0.56	67	936	e2,200	164	118	239	128	26	11	1.7	337
7	0.52	44	1,660	e2,020	140	144	362	102	21	12	4.0	202
8	0.49	32	1,650	2,430	134	888	786	84	18	12	8.6	120
9	0.51	24	1,210	1,770	135	730	667	70	19	11	8.6	70
10	0.54	20	927	1,270	131	462	421	71	25	10	8.9	42
11	0.48	35	653	829	118	318	278	57	22	11	7.4	31
12	0.63	665	477	607	107	236	e213	47	39	13	5.5	25
13	1.0	546	332	661	322	184	e175	41	191	15	4.3	22
14	1.3	281	232	1,120	1,030	148	e150	62	133	17	3.6	19
15	1.7	183	170	842	916	122	e130	108	70	20	5.1	16
16	2.4	136	133	556	590	107	e120	85	41	21	21	13
17	3.1	100	113	377	388	98	e110	54	28	42	28	12
18	4.0	71	98	256	257	89	106	40	22	62	18	10
19	6.5	69	86	201	193	81	99	36	18	55	21	10
20	9.0	83	72	174	169	75	e88	536	14	53	21	9.5
21	12	78	64	153	380	70	e81	605	12	30	15	9.5
22	14	68	321	134	644	68	79	265	10	23	11	10
23	18	122	735	115	452	145	109	149	9.4	23	8.6	8.6
24	25	770	500	101	301	214	105	99	8.7	24	6.7	7.2
25	31	902	312	93	225	177	86	70	8.1	18	7.0	7.9
26	34	518	216	91	179	141	78	51	7.3	14	129	8.1
27	38	288	159	85	151	1,000	112	40	7.0	10	346	6.0
28	43	367	128	76	156	e4,480	119	33	7.8	7.2	208	4.0
29	45	329	191	85	---	e2,840	172	30	7.8	5.3	855	3.4
30	43	609	1,120	176	---	e1,680	1,320	27	7.4	3.9	3,870	2.9
31	43	---	2,190	200	---	1,110	---	25	---	3.0	5,670	---
TOTAL	381.92	7,185	18,855	27,782	8,256	16,648	9,162	5,798	930.5	559.2	11,302.7	10,952.1
MEAN	12.3	240	608	896	295	537	305	187	31.0	18.0	365	365
MAX	45	902	2,190	2,540	1,030	4,480	1,320	1,250	191	62	5,670	5,290
MIN	0.48	20	64	76	107	68	78	25	7.0	3.0	1.5	2.9
CFSM	0.06	1.23	3.14	4.62	1.52	2.77	1.57	0.96	0.16	0.09	1.88	1.88
IN.	0.07	1.38	3.62	5.33	1.58	3.19	1.76	1.11	0.18	0.11	2.17	2.10

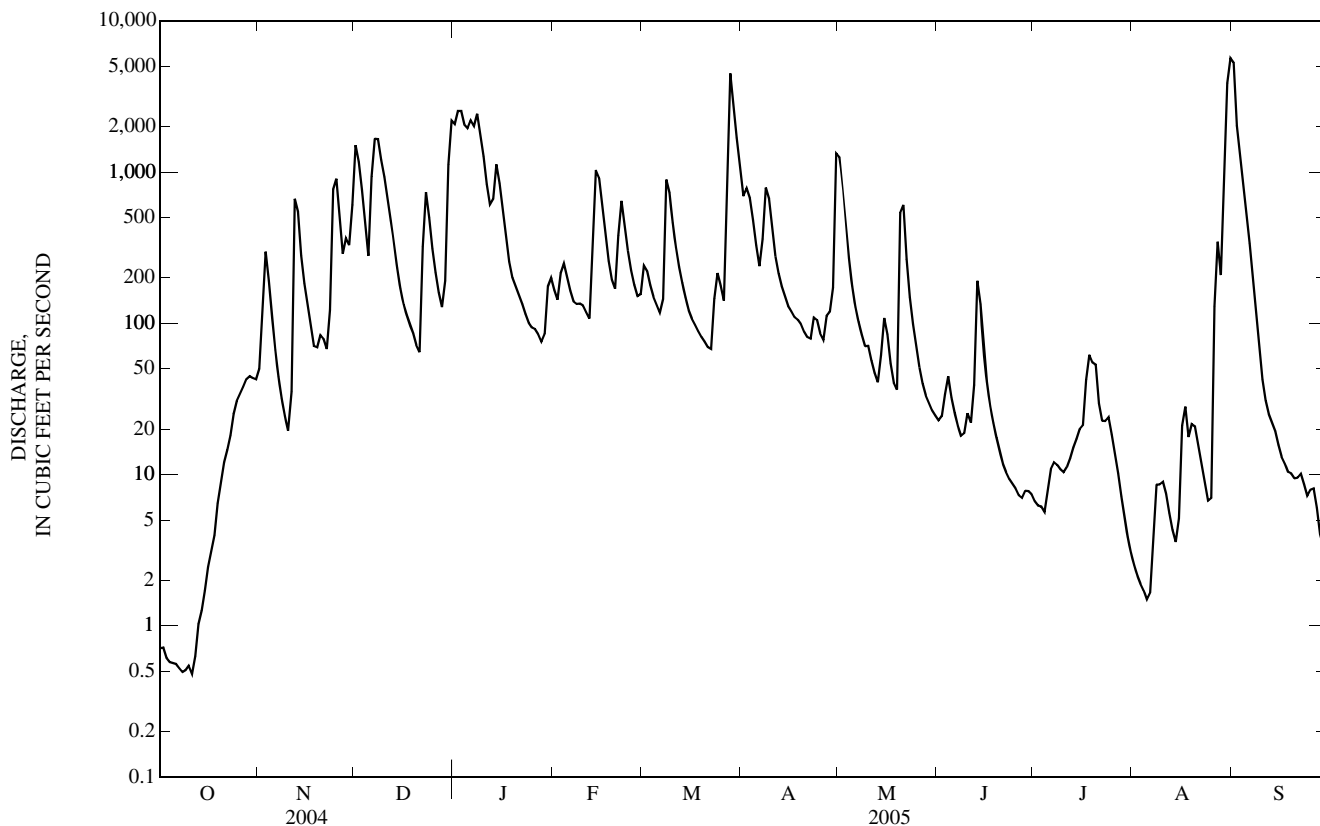
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2005, BY WATER YEAR (WY)

MEAN	30.1	174	407	455	608	595	436	332	119	58.3	36.8	66.3
MAX	485	1,430	2,167	2,024	3,988	2,519	1,822	2,607	900	440	365	988
(WY)	(2003)	(1958)	(1979)	(1950)	(1989)	(1997)	(1979)	(1984)	(1969)	(1989)	(2005)	(1979)
MIN	0.00	0.00	0.00	3.56	42.6	35.2	39.2	6.46	1.37	0.44	0.19	0.00
(WY)	(1954)	(1954)	(1964)	(1981)	(1941)	(1941)	(1986)	(1941)	(1964)	(1964)	(1993)	(1953)

03320500 POND RIVER NEAR APEX, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1941 - 2005	
ANNUAL TOTAL	105,080.87		117,812.42		275	
ANNUAL MEAN	287		323		643	
HIGHEST ANNUAL MEAN					1979	
LOWEST ANNUAL MEAN					1941	
HIGHEST DAILY MEAN	2,190	Dec 31	5,670	Aug 31	28,400	Feb 15, 1989
LOWEST DAILY MEAN	0.48	Oct 11	0.48	Oct 11	0.00	Oct 21, 1940
ANNUAL SEVEN-DAY MINIMUM	0.52	Oct 5	0.52	Oct 5	0.00	Oct 21, 1940
MAXIMUM PEAK FLOW			6,360	Sep 1	35,700	May 7, 1984
MAXIMUM PEAK STAGE			19.32	Sep 1	26.81	Nov 19, 1957
ANNUAL RUNOFF (CFSM)	1.48		1.66		1.42	
ANNUAL RUNOFF (INCHES)	20.15		22.59		19.25	
10 PERCENT EXCEEDS	851		868		736	
50 PERCENT EXCEEDS	113		89		49	
90 PERCENT EXCEEDS	4.5		5.9		0.80	

e Estimated



WABASH RIVER BASIN

03378500 WABASH RIVER AT NEW HARMONY, IN

(National stream-quality accounting network station)

LOCATION.-- Lat 38°07'55", long 87°56'25", Posey County, Hydrologic Unit 05120113, at bridge on U.S. Highway 66 at New Harmony, and at mile 51.5.

DRAINAGE AREA.--29,234 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES.--October 1974 to 1986, 1997 to current water year.

SEDIMENT DISCHARGE.--Partial record station--October 1974 to 1985.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--October 1974 to September 1980.

WATER TEMPERATURES.--October 1974 to September 1980.

REMARKS.--Water discharge obtained from station Wabash River at Mount Carmel, IL. (03377500).

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--Maximum daily recorded, 805 microsiemens, Feb. 15, 1977; minimum daily recorded, 200 microsiemens, Mar. 3, 1979.

WATER TEMPERATURES.--Maximum daily recorded, 32.0°C, June 28, 1978, July 14-18, 1980; minimum daily recorded, freezing point on many days during the winter period.

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

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
NOV												
18...	1210	Environmental	25,800	.143	.108	768	10.7	7.7	476	11.0	210	56.0
DEC												
13...	1330	Environmental	61,000	.158	.121	772	10.2	7.7	447	8.0	210	55.3
JAN												
14...	1230	Environmental	263,000	.155	.119	782	10.8	7.6	235	6.5	130	35.4
FEB												
02...	1310	Environmental	58,800	.116	.087	773	12.6	7.6	458	3.0	220	58.1
02...	1318	Field Blank	--	--	--	--	--	--	--	--	--	.09
MAR												
22...	1210	Environmental	21,400	.070	.051	763	14.3	8.2	584	9.5	290	77.7
22...	1218	Field Blank	--	.004	.004	--	--	--	--	--	--	--
APR												
05...	1250	Environmental	37,900	.113	.085	768	10.9	8.0	455	14.0	210	54.4
05...	1300	Replicate	--	.110	.082	--	--	--	--	--	210	55.9
18...	1230	Environmental	26,500	.098	.073	772	11.5	8.0	496	18.0	220	58.6
18...	1238	Field Blank	--	--	--	--	--	--	--	--	--	--
MAY												
11...	1230	Environmental	20,600	--	--	770	13.5	8.2	560	21.0	260	64.9
11...	1238	Field Blank	--	--	--	--	--	--	--	--	--	--
24...	1150	Environmental	38,600	.114	.086	764	11.2	7.6	432	20.5	200	51.9
JUN												
07...	1240	Environmental	13,500	.074	.055	767	10.3	8.2	561	26.0	260	64.6
07...	1250	Replicate	--	.074	.055	--	--	--	--	--	260	63.8
16...	1210	Environmental	36,400	.129	.097	765	6.0	7.5	462	26.0	200	51.0
21...	1210	Environmental	23,700	.120	.089	772	8.1	7.7	483	25.5	220	57.1
21...	1218	Field Blank	--	--	--	--	--	--	--	--	--	--
AUG												
10...	1130	Environmental	6,340	.091	.067	771	8.2	8.2	492	30.5	200	39.3
SEP												
07...	1240	Environmental	10,100	.120	.089	775	8.6	7.8	430	26.0	180	46.8

03378500 WABASH RIVER AT NEW HARMONY, IN—Continued

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

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)
Date	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)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Arsenic water, fltrd, ug/L (01000)
NOV 18...													
DEC 13...													
JAN 14...													
FEB 02...													
FEB 02...													
MAR 22...													
MAR 22...													
APR 05...													
APR 05...													
APR 18...													
APR 18...													
MAY 11...													
MAY 11...													
MAY 24...													
JUN 07...													
JUN 07...													
JUN 16...													
JUN 21...													
JUN 21...													
AUG 10...													
SEP 07...													
NOV 18...	2.37	E.006	.31	.096	.113	.23	2.9	<.1	2.9	4.8	E5.2	E8.0	1.1
DEC 13...	4.01	.013	.44	.101	.126	.26	4.2	<.1	4.2	5.1	--	--	1.0
JAN 14...	2.58	.014	.39	.114	.124	.25	3.2	<.1	3.2	4.6	--	--	.9
FEB 02...	2.86	.012	.34	.093	.108	.21	3.2	<.1	3.2	3.6	--	--	.8
FEB 02...	--	--	--	--	--	--	--	--	--	--	--	--	<.2
MAR 22...	2.27	E.006	.52	<.006	.007	.13	3.4	.2	3.3	2.3	9.8	42.1	.8
MAR 22...	--	--	<.02	--	--	--	<.1	<.1	<.1	.5	--	--	--
APR 05...	2.40	.008	.25	.030	.045	.19	2.3	<.1	2.2	3.4	5.2	20.5	.8
APR 05...	2.40	E.007	.39	.032	.044	.20	3.0	<.1	3.0	3.4	4.2	17.3	.7
APR 18...	1.95	.012	.70	.006	.018	E.18	5.4	<.1	5.3	3.4	33.0	46.8	.7
APR 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 11...	2.59	.009	1.07	<.006	.018	.15	8.3	.7	7.6	2.9	--	--	.7
MAY 11...	E.008	<.002	--	<.006	--	--	--	--	--	--	--	--	--
MAY 24...	2.99	.033	.86	.037	.052	.29	7.5	.3	7.2	3.5	17.0	20.3	.9
JUN 07...	1.31	.010	.70	<.006	.010	.16	5.1	.2	5.0	2.7	45.6	31.1	.9
JUN 07...	1.32	.010	.76	<.006	.010	.16	5.3	<.1	5.2	2.8	51.1	35.0	.9
JUN 16...	4.07	.136	.75	.059	.077	.33	6.7	<.1	6.6	4.1	36.5	23.2	1.1
JUN 21...	4.87	.036	.59	.066	.082	.24	4.8	.1	4.7	4.0	19.9	18.9	1.4
JUN 21...	--	--	--	--	--	--	--	--	--	--	<.2	<.2	--
AUG 10...	<.06	<.008	.78	<.006	.013	.07	7.4	<.1	7.4	3.5	32.7	53.7	1.4
SEP 07...	.64	.012	.86	.024	.040	.19	7.2	<.1	7.2	3.7	37.2	72.2	1.2

03378500 WABASH RIVER AT NEW HARMONY, IN—Continued

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

Date	Boron, water, fltrd, ug/L (01020)	Iron, water, fltrd, ug/L (01046)	Lithium, water, fltrd, ug/L (01130)	Selen- ium, water, fltrd, ug/L (01145)	Stront- ium, water, fltrd, ug/L (01080)	Vanad- ium, water, fltrd, ug/L (01085)	2,6-Di- ethyl- aniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor, water, fltrd, ug/L (46342)	alpha- HCH, water, fltrd, ug/L (34253)	Atra- zine, water, fltrd, ug/L (39632)	Azin- phos- methyl, water, fltrd 0.7u GF ug/L (82686)
NOV 18...	68	14	2.2	E.4	181	1.1	<.006	E.042	<.010	<.005	<.005	.141	<.050
DEC 13...	40	11	1.5	.7	135	.8	<.006	E.036	<.020	<.005	<.005	.136	<.050
JAN 14...	21	23	.8	E.4	81.5	.7	<.006	E.027	.022	.005	<.005	.075	<.050
FEB 02...	53	8	2.3	.5	156	1.7	<.006	E.021	.008	<.005	<.005	.072	<.050
FEB 02...	<8	<6	<6	<.4	<.40	<.1	--	--	--	--	--	--	--
MAR 22...	86	E5	3.3	.8	233	.6	<.006	E.014	<.006	<.005	<.005	.053	<.050
MAR 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 05...	56	E5	2.3	.7	204	.6	<.006	E.019	.009	<.005	<.005	.181	<.050
APR 05...	66	8	2.0	.5	202	1.0	<.006	E.022	<.010	<.005	<.005	.188	<.050
APR 18...	75	8	2.7	.5	185	1.1	<.006	E.051	.089	<.005	<.005	1.82	<.050
APR 18...	--	--	--	--	--	--	<.006	<.006	<.006	<.005	<.005	<.007	<.050
MAY 11...	91	<6	2.7	.6	231	1.0	<.006	E.079	.261	<.007	<.005	2.90	<.050
MAY 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 24...	51	8	2.1	.6	169	1.0	<.006	E.422	.872	.051	<.005	6.67	<.050
JUN 07...	98	<6	3.4	.8	205	1.3	<.006	E.166	.166	<.005	<.005	2.38	<.050
JUN 07...	101	<6	3.8	.7	206	1.2	<.006	E.165	.167	<.005	<.005	2.47	<.050
JUN 16...	82	<6	2.8	.7	163	1.4	<.006	E.384	.472	.013	<.005	4.40	<.050
JUN 21...	74	E4	2.4	.7	182	1.5	<.006	E.405	.436	.022	<.005	4.36	<.050
JUN 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 10...	186	8	4.2	.7	201	1.0	<.006	E.089	.013	<.005	<.005	.592	<.050
SEP 07...	112	<6	3.2	.48	151	1.3	<.006	E.021	.010	<.005	<.005	.231	<.050
Date	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673)	Butyl- ate, water, fltrd, ug/L (04028)	Car- baryl, water, fltrd 0.7u GF ug/L (82680)	Carbo- furan, water, fltrd 0.7u GF ug/L (82674)	Chlor- pyrifos water, fltrd, ug/L (38933)	cis- Per- methrin water fltrd 0.7u GF ug/L (82687)	Cyana- zine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF ug/L (82682)	Diazi- non, water, fltrd, ug/L (39572)	Diel- drin, water, fltrd, ug/L (39381)	Disul- foton, water, fltrd 0.7u GF ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethal- flur- alin, water, fltrd 0.7u GF ug/L (82663)
NOV 18...	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009
DEC 13...	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009
JAN 14...	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009
FEB 02...	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009
FEB 02...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009
MAR 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 05...	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009
APR 05...	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009
APR 18...	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009
APR 18...	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009
MAY 11...	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009
MAY 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 24...	<.010	<.004	<.041	<.020	<.010	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009
JUN 07...	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009
JUN 07...	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009
JUN 16...	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009
JUN 21...	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009
JUN 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 10...	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009
SEP 07...	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009

03378500 WABASH RIVER AT NEW HARMONY, IN—Continued

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

Date	Etho- prop, water, fltrd 0.7u GF (82672)	Fonofos water, fltrd, ug/L (04095)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl para- thion, water, fltrd 0.7u GF (82667)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Moli- nate, water, fltrd 0.7u GF (82671)	Naprop- amide, water, fltrd 0.7u GF (82684)	p,p'- DDE, water, fltrd, ug/L (34653)	Para- thion, water, fltrd, ug/L (39542)	Peb- ulate, water, fltrd 0.7u GF (82669)
	NOV 18...	<.005	<.003	<.004	<.035	<.027	<.015	.036	<.006	<.003	<.007	<.003	<.010
DEC 13...	<.005	<.003	<.004	<.035	<.027	<.015	.066	<.008	<.003	<.007	<.003	<.010	<.004
JAN 14...	<.005	<.003	<.004	<.035	<.027	<.015	.064	.007	<.003	<.007	<.003	<.010	<.004
FEB 02...	<.005	<.003	<.004	<.035	<.027	<.015	.042	<.006	<.003	<.007	<.003	<.010	<.004
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	<.005	<.003	<.004	<.035	<.027	<.015	.021	<.006	<.003	<.007	<.003	<.010	<.004
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 05...	<.005	<.003	<.004	<.035	<.027	<.015	.030	<.006	<.003	<.007	<.003	<.010	<.004
05...	<.005	<.003	<.004	<.035	<.027	<.015	.031	<.006	<.003	<.007	<.003	<.010	<.004
18...	<.005	<.003	<.004	<.035	<.027	<.015	.235	<.007	<.003	<.007	<.003	<.010	<.004
18...	<.005	<.003	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010	<.004
MAY 11...	<.005	<.003	<.004	<.035	<.027	<.015	.499	<.006	<.003	<.007	<.003	<.010	<.004
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	<.005	<.003	<.004	E.023	<.027	<.015	1.68	.015	<.003	<.007	<.003	<.010	<.004
JUN 07...	<.005	<.003	<.004	<.035	<.027	<.015	.578	<.006	<.003	<.007	<.003	<.010	<.004
07...	<.005	<.003	<.004	<.035	<.027	<.015	.591	<.006	<.003	<.007	<.003	<.010	<.004
16...	<.005	<.003	<.004	<.035	<.027	<.015	1.10	<.010	<.003	<.007	<.003	<.010	<.004
21...	<.005	<.003	<.004	<.035	<.027	<.015	1.33	.016	<.003	<.007	<.003	<.010	<.004
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 10...	<.005	<.003	<.004	<.035	<.027	<.015	.114	<.006	<.003	<.007	<.003	<.010	<.004
SEP 07...	<.005	<.003	<.004	<.035	<.027	<.015	.065	<.006	<.003	<.007	<.003	<.010	<.004
Date	Pendi- meth- alin, water, fltrd 0.7u GF (82683)	Phorate water fltrd 0.7u GF (82664)	Prome- ton, water, fltrd, ug/L (04037)	Propy- zamide, water, fltrd 0.7u GF (82676)	Propa- chlor, water, fltrd, ug/L (04024)	Pro- panil, water, fltrd 0.7u GF (82679)	Propar- gite, water, fltrd 0.7u GF (82685)	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF (82670)	Terba- cil, water, fltrd 0.7u GF (82665)	Terbu- fos, water, fltrd 0.7u GF (82675)	Thio- bencarb water fltrd 0.7u GF (82681)	Tri- allate, water, fltrd 0.7u GF (82678)
NOV 18...	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.340	<.02	<.034	<.02	<.010	<.006
DEC 13...	<.022	<.011	<.01	<.004	<.025	<.011	<.02	1.01	<.02	<.034	<.02	<.010	<.006
JAN 14...	<.022	<.011	E.01	<.004	<.025	<.011	<.02	.617	<.02	<.034	<.02	<.010	<.006
FEB 02...	<.022	<.011	M	<.004	<.025	<.011	<.02	.258	<.02	<.034	<.02	<.010	<.006
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.112	<.02	<.034	<.02	<.010	<.006
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 05...	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.145	<.02	<.034	<.02	<.010	<.006
05...	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.153	<.02	<.034	<.02	<.010	<.006
18...	<.022	<.011	E.01	<.004	<.025	<.011	<.02	.635	<.02	<.034	<.02	<.010	<.006
18...	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006
MAY 11...	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.220	<.02	<.034	<.02	<.010	<.006
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	<.022	<.011	.03	<.004	<.025	<.011	<.02	.807	<.02	<.034	<.02	<.010	<.006
JUN 07...	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.254	<.02	<.034	<.02	<.010	<.006
07...	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.262	<.02	<.034	<.02	<.010	<.006
16...	<.022	<.011	.03	<.004	<.025	<.011	<.02	.413	<.02	<.034	<.02	<.010	<.006
21...	<.022	<.011	.04	<.004	<.025	<.011	<.02	.385	<.02	<.034	<.02	<.010	<.006
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 10...	<.022	<.011	.03	<.004	<.025	<.011	<.02	.071	<.02	<.034	<.02	<.010	<.006
SEP 07...	<.022	<.011	.03	<.004	<.025	<.011	<.02	.023	<.02	<.034	<.02	<.010	<.006

WABASH RIVER BASIN

03378500 WABASH RIVER AT NEW HARMONY, IN—Continued

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

Date	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
NOV			
18...	<.009	95	114
DEC			
13...	<.009	87	140
JAN			
14...	<.009	72	98
FEB			
02...	<.009	76	86
02...	--	--	--
MAR			
22...	<.009	96	37
22...	--	--	--
APR			
05...	<.009	96	110
05...	<.009	96	108
18...	<.009	97	100
18...	<.009	--	--
MAY			
11...	<.009	98	104
11...	--	--	--
24...	<.009	98	257
JUN			
07...	<.009	98	72
07...	<.009	99	73
16...	<.009	98	293
21...	<.009	98	152
21...	--	--	--
AUG			
10...	<.009	98	35
SEP			
07...	<.009	98	95

E--Laboratory estimated value.

M--Presence of material verified but not quantified.

<--Numeric result is less than the value shown.

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TRADEWATER RIVER BASIN

03383000 TRADEWATER RIVER AT OLNEY, KY

LOCATION.--Lat 37°13'26", long 87°46'53", Caldwell County, Hydrologic Unit 05140205, on left bank at downstream side of bridge on State Highway 1220 at Olney, 0.9 mi upstream from Cave Creek, 5.4 mi downstream from Flynn Creek, 9.5 mi northeast of Princeton, and at mile 72.7.

DRAINAGE AREA.--255 mi², of which about 9 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--August 1940 to May 1984, March 1985 to current year.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 362.80 ft above NGVD of 1929. Prior to July 31, 1942, nonrecording gage at same site and datum.

REMARKS.--Records good except for those estimated, which are poor.

COOPERATION.--Kentucky Natural Resources and Environmental Protection Cabinet.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1937 reached a stage of 19.27 ft, from floodmarks, discharge, 17,000 ft³/s, by slope-area measurement from U.S. Army Corp of Engineers.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 4	0200	2,350	13.80	Mar 29	0600	2,600	13.83
Jan 5	1500	2,500	14.12	Apr 1	0000	2,570	13.78
Jan 8	1700	*2,930	*14.69				

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	1.9	49	1,500	1,920	198	200	2,440	1,160	27	4.1	2.8	1,280
2	1.7	785	1,560	2,040	180	210	1,990	881	32	4.0	2.6	1,180
3	1.6	1,760	1,390	2,290	202	193	1,360	395	36	2.8	2.4	485
4	1.5	1,830	737	2,370	273	174	741	230	40	2.3	2.1	143
5	1.3	1,650	352	2,470	266	160	446	181	40	2.4	1.8	95
6	1.0	838	506	2,710	218	146	307	149	38	1.9	1.7	68
7	0.62	220	1,280	2,870	199	145	424	127	32	1.7	1.6	51
8	0.70	136	1,680	2,890	263	389	1,060	109	27	1.5	1.6	39
9	0.80	108	1,660	2,760	263	696	907	95	38	1.4	1.6	30
10	0.82	88	1,470	2,490	224	496	561	84	67	1.3	1.7	24
11	0.86	76	813	2,200	195	307	360	73	109	1.9	1.8	18
12	1.3	365	428	1,720	176	234	289	64	221	3.5	1.8	14
13	1.9	678	284	1,130	258	202	253	56	475	7.0	1.7	11
14	2.2	444	218	1,440	873	176	224	55	354	10	1.8	9.4
15	2.3	226	182	1,380	1,000	159	198	70	175	12	2.5	8.1
16	2.5	162	159	977	699	143	175	118	108	12	3.3	7.4
17	2.7	130	145	545	423	132	154	100	73	26	3.3	6.4
18	6.0	111	132	345	283	123	140	67	52	36	4.0	5.7
19	13	117	122	263	221	115	126	e63	39	33	7.1	5.2
20	58	154	111	237	200	108	114	e340	29	30	15	5.3
21	82	148	103	223	234	103	103	e450	22	34	14	5.6
22	51	129	409	203	539	97	97	e350	17	38	14	6.0
23	31	119	1,020	179	599	101	113	e180	13	29	13	5.9
24	24	373	1,020	158	380	109	120	130	10	21	10	6.0
25	18	1,010	850	147	272	120	110	100	7.7	15	7.6	8.8
26	28	863	700	141	223	123	98	78	5.8	12	9.7	21
27	40	443	471	134	193	255	98	61	5.0	8.9	411	32
28	45	627	308	124	183	1,970	107	51	4.4	6.7	149	26
29	51	683	472	123	---	2,570	144	43	4.0	4.9	99	18
30	46	753	1,380	154	---	2,530	776	36	3.9	3.8	293	13
31	42	---	1,800	194	---	2,590	---	30	---	3.3	1,300	---
TOTAL	560.70	15,075	23,262	36,827	9,237	15,076	14,035	5,926	2,104.8	371.4	2,382.5	3,627.8
MEAN	18.1	502	750	1,188	330	486	468	191	70.2	12.0	76.9	121
MAX	82	1,830	1,800	2,890	1,000	2,590	2,440	1,160	475	38	1,300	1,280
MIN	0.62	49	103	123	176	97	97	30	3.9	1.3	1.6	5.2
CFSM	0.07	2.04	3.05	4.83	1.34	1.98	1.90	0.78	0.29	0.05	0.31	0.49
IN.	0.08	2.28	3.52	5.57	1.40	2.28	2.12	0.90	0.32	0.06	0.36	0.55

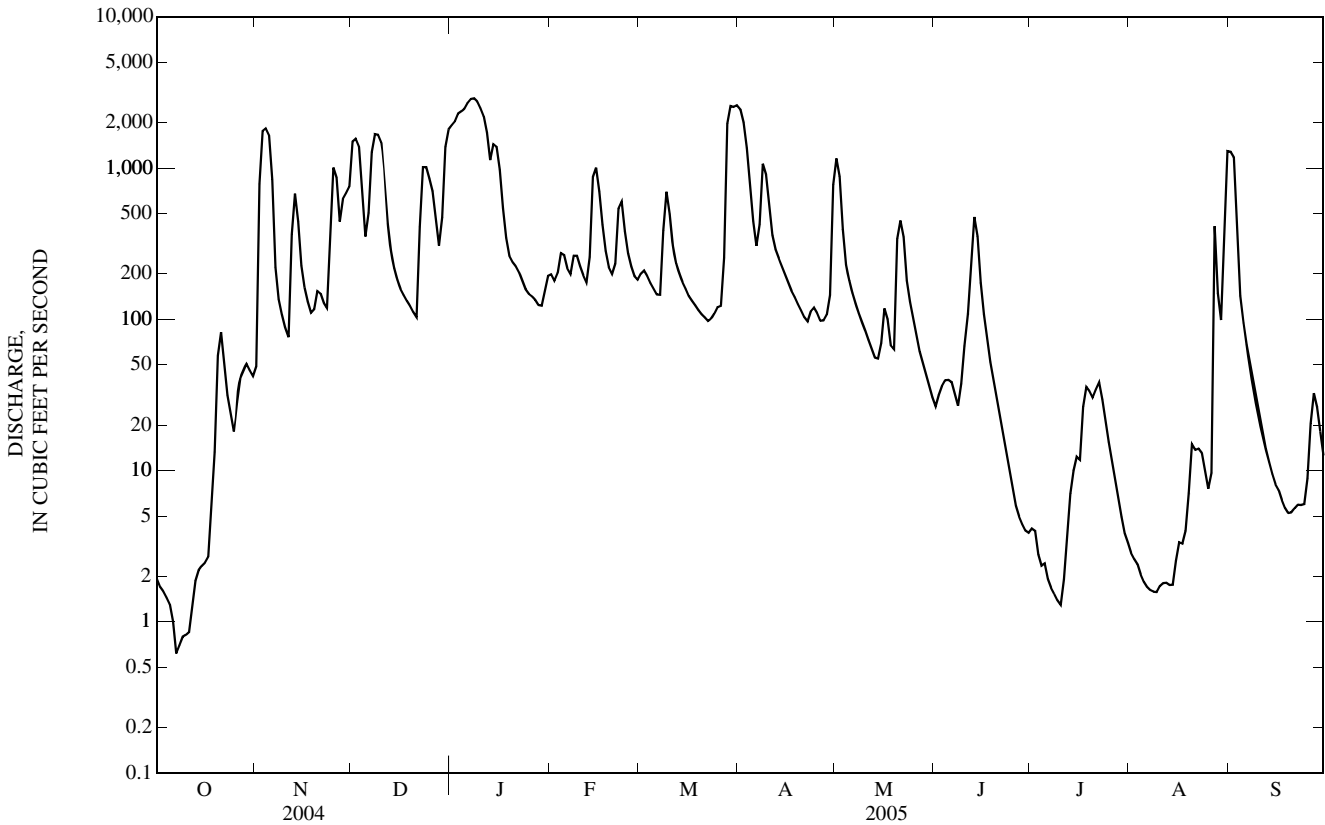
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2005, BY WATER YEAR (WY)

MEAN	36.2	207	463	566	720	750	589	399	154	85.5	35.8	49.3
MAX	324	2,178	1,963	2,268	3,529	2,360	1,851	1,878	949	946	275	798
(WY)	(1997)	(1958)	(1979)	(1950)	(1989)	(1997)	(1979)	(1983)	(1969)	(1989)	(1985)	(1950)
MIN	0.00	0.00	0.96	4.85	19.2	61.9	53.7	7.09	1.18	0.00	0.00	0.00
(WY)	(1941)	(1954)	(1964)	(1964)	(1964)	(1941)	(1986)	(1941)	(1944)	(1952)	(1952)	(1953)

03383000 TRADEWATER RIVER AT OLNEY, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1941 - 2005	
ANNUAL TOTAL	126,053.30		128,485.20			
ANNUAL MEAN	344		352		332	
HIGHEST ANNUAL MEAN					701	1989
LOWEST ANNUAL MEAN					61.6	1941
HIGHEST DAILY MEAN	1,940	Jun 1	2,890	Jan 8	14,000	Feb 16, 1989
LOWEST DAILY MEAN	0.62	Oct 7	0.62	Oct 7	0.00	Oct 1, 1940
ANNUAL SEVEN-DAY MINIMUM	0.87	Oct 5	0.87	Oct 5	0.00	Oct 1, 1940
MAXIMUM PEAK FLOW			2,930	Jan 8	14,600	Feb 16, 1989
MAXIMUM PEAK STAGE			14.69	Jan 8	18.85	Feb 16, 1989
ANNUAL RUNOFF (CF5M)	1.40		1.43		1.35	
ANNUAL RUNOFF (INCHES)	19.06		19.43		18.35	
10 PERCENT EXCEEDS	1,200		1,170		1,120	
50 PERCENT EXCEEDS	140		119		62	
90 PERCENT EXCEEDS	4.4		2.5		1.2	

e Estimated



03399800 OHIO RIVER AT SMITHLAND DAM, SMITHLAND, KY

LOCATION.--Lat 37°09'30", long 88°25'34", Livingston County, Hydrologic Unit 05140203, at Smithland Dam, 1.1 mi upstream from Cumberland Island, 1.8 mi northwest of Smithland, and at mile 919.0.

DRAINAGE AREA.--144,000 mi², approximately.

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

GAGE.--Water-stage recorders with telemetry. Datum of headwater gage is 311.22 ft above NGVD of 1929. Datum of tailwater gage 0.8 mi downstream is 289.28 ft above NGVD of 1929.

REMARKS.--Records good. Daily discharge computed from tailwater elevation, head, gate openings, and lockages. Flow regulated by Ohio River system of locks, dams, and reservoirs upstream from station.

COOPERATION.--U.S. Army Corps of Engineers, Louisville District.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115,000	128,000	334,000	298,000	322,000	333,000	e452,000	300,000	89,000	50,000	26,800	170,000
2	126,000	129,000	374,000	334,000	301,000	310,000	e467,000	307,000	71,800	54,000	30,900	174,000
3	141,000	191,000	401,000	351,000	290,000	241,000	e465,000	316,000	82,600	54,100	40,800	145,000
4	140,000	226,000	428,000	355,000	272,000	261,000	e469,000	333,000	58,500	60,900	46,500	113,000
5	129,000	231,000	449,000	362,000	263,000	276,000	e472,000	352,000	57,300	16,300	37,100	105,000
6	89,300	218,000	465,000	387,000	255,000	277,000	e478,000	356,000	56,400	46,800	21,100	65,800
7	59,700	248,000	483,000	439,000	250,000	253,000	e482,000	342,000	57,000	49,800	15,400	45,200
8	38,500	270,000	504,000	483,000	252,000	227,000	e476,000	290,000	64,500	40,700	26,800	57,400
9	51,400	270,000	526,000	523,000	257,000	221,000	e476,000	213,000	59,900	34,800	24,900	40,600
10	63,600	253,000	541,000	552,000	266,000	238,000	e467,000	160,000	58,100	43,800	28,800	30,100
11	47,300	220,000	537,000	574,000	274,000	269,000	453,000	135,000	64,200	86,900	19,800	28,500
12	47,300	209,000	531,000	600,000	281,000	297,000	439,000	112,000	53,800	70,300	26,000	31,200
13	53,300	246,000	525,000	632,000	303,000	319,000	412,000	107,000	88,700	34,800	19,600	37,900
14	53,200	278,000	530,000	663,000	319,000	328,000	362,000	114,000	105,000	38,000	27,600	21,500
15	56,000	277,000	536,000	690,000	330,000	321,000	310,000	125,000	112,000	48,600	28,700	26,000
16	54,500	259,000	528,000	708,000	340,000	288,000	262,000	119,000	78,000	19,900	20,000	30,300
17	53,800	223,000	522,000	699,000	348,000	244,000	233,000	138,000	68,400	29,100	22,300	15,500
18	53,800	190,000	512,000	696,000	353,000	211,000	205,000	150,000	81,300	60,000	22,600	20,200
19	97,500	161,000	492,000	694,000	359,000	190,000	182,000	148,000	78,600	70,000	27,400	39,100
20	170,000	164,000	446,000	692,000	364,000	168,000	158,000	140,000	65,700	75,000	38,600	26,400
21	193,000	192,000	232,000	691,000	369,000	158,000	144,000	175,000	62,900	65,100	34,000	23,800
22	214,000	211,000	195,000	693,000	361,000	151,000	112,000	198,000	59,500	66,900	48,600	27,300
23	226,000	224,000	171,000	692,000	366,000	144,000	120,000	200,000	40,100	69,300	33,500	21,100
24	212,000	221,000	172,000	681,000	373,000	157,000	112,000	209,000	43,600	53,200	43,900	29,400
25	166,000	217,000	192,000	668,000	373,000	168,000	144,000	210,000	44,600	54,800	15,100	20,900
26	134,000	215,000	222,000	641,000	369,000	181,000	180,000	180,000	32,000	40,000	30,900	29,100
27	134,000	250,000	244,000	608,000	361,000	207,000	214,000	147,000	35,100	39,000	67,200	41,000
28	139,000	260,000	257,000	563,000	352,000	280,000	246,000	127,000	39,300	51,200	64,400	41,100
29	152,000	275,000	257,000	501,000	---	330,000	269,000	119,000	31,600	59,100	62,500	37,900
30	148,000	300,000	256,000	445,000	---	375,000	288,000	107,000	24,700	52,100	81,100	59,900
31	137,000	---	267,000	381,000	---	e416,000	---	94,200	---	45,200	145,000	---
TOTAL	3,495,200	6,756,000	12,129,000	17,296,000	8,923,000	7,839,000	9,549,000	6,023,200	1,864,200	1,579,700	1,177,900	1,554,200
MEAN	112,700	225,200	391,300	557,900	318,700	252,900	318,300	194,300	62,140	50,960	38,000	51,810
MAX	226,000	300,000	541,000	708,000	373,000	416,000	482,000	356,000	112,000	86,900	145,000	174,000
MIN	38,500	128,000	171,000	298,000	250,000	144,000	112,000	94,200	24,700	16,300	15,100	15,500

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

MEAN	68,780	125,500	205,200	247,100	312,500	340,600	292,000	297,200	203,900	94,580	72,430	66,420
MAX	114,500	246,000	391,300	557,900	536,200	700,900	594,100	562,200	376,000	203,600	132,400	215,700
(WY)	(2004)	(2004)	(2005)	(2005)	(1994)	(1997)	(1994)	(1996)	(1997)	(1998)	(2003)	(2004)
MIN	24,530	34,800	59,450	89,880	213,000	216,300	150,000	112,600	60,070	43,110	19,190	12,490
(WY)	(2000)	(1999)	(1999)	(2001)	(1995)	(2000)	(1995)	(2000)	(1999)	(1999)	(1999)	(1999)

03399800 OHIO RIVER AT SMITHLAND DAM, SMITHLAND, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1994 - 2005	
ANNUAL TOTAL	90,013,300		78,186,400		193,200	
ANNUAL MEAN	245,900		214,200		120,900	
HIGHEST ANNUAL MEAN					247,000	1994
LOWEST ANNUAL MEAN					120,900	2000
HIGHEST DAILY MEAN	541,000	Dec 10	708,000	Jan 16	831,000	Mar 12, 1997
LOWEST DAILY MEAN	37,200	Aug 16	15,100	Aug 25	3,090	Aug 5, 1999
ANNUAL SEVEN-DAY MINIMUM	45,200	Aug 15	23,000	Aug 7	10,200	Sep 1, 1999
MAXIMUM PEAK FLOW					832,000	Mar 12, 1997
MAXIMUM PEAK STAGE					51.44	Mar 12, 1997
10 PERCENT EXCEEDS	464,000		480,000		449,000	
50 PERCENT EXCEEDS	222,000		174,000		143,000	
90 PERCENT EXCEEDS	86,500		31,100		31,600	

e Estimated

