

## BIG SANDY RIVER BASIN

03207965 GRAPEVINE CREEK NEAR PHYLLIS, KY

LOCATION.--Lat 37°25'57", long 82°21'14", Pike County, Hydrologic Unit 05070202, on right bank at the Grapevine Recreation area, 1.3 mi downstream from Dicks Fork, 1.3 mi southwest of Phyllis, and at mile 1.1.

DRAINAGE AREA.--6.20 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1973 to September 1982, April 1989 to September 1992, October 1994 to current year.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 780 ft above NGVD of 1929, from topographic map.

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Apr 3	unknown	216	1.35	Jun 30	unknown	272	1.53
Apr 30	unknown	*300	*1.60				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	7.5	86	7.4	18	e48	13	47	1.9	3.1	0.42	3.3
2	6.1	6.5	22	6.5	15	e32	58	24	3.1	1.6	0.49	3.0
3	4.7	5.8	13	6.3	15	e23	74	16	2.6	1.1	0.54	2.7
4	3.6	27	9.7	11	14	e16	34	12	2.3	1.0	0.57	2.7
5	3.1	25	7.4	22	13	e15	24	9.2	2.0	1.1	0.91	2.8
6	2.9	16	10	21	12	e14	19	7.9	1.9	1.00	0.91	2.7
7	2.9	13	12	18	11	e13	16	7.1	1.9	10	0.78	2.4
8	2.8	10	12	23	11	e36	14	6.5	2.0	3.5	1.7	2.7
9	2.9	8.1	32	22	11	e32	12	5.8	1.9	1.3	1.8	2.6
10	2.9	7.3	55	18	13	24	11	5.5	1.8	0.77	2.2	2.0
11	2.8	6.8	37	16	12	23	9.1	5.0	1.8	0.62	2.0	2.1
12	3.8	13	28	14	12	22	9.9	4.7	1.9	0.54	1.8	1.7
13	7.5	11	22	16	13	23	9.6	5.0	2.0	0.86	1.8	1.8
14	5.7	10	17	47	20	20	8.3	4.3	2.5	0.67	1.9	1.9
15	4.9	9.8	14	e30	23	17	7.3	4.7	2.5	0.73	1.9	1.7
16	4.8	9.3	13	e19	26	16	6.7	3.7	2.1	0.92	5.0	1.9
17	4.1	8.8	11	e15	25	13	6.6	3.3	2.0	2.4	2.9	4.3
18	4.2	9.0	11	e13	21	12	6.3	3.3	2.1	1.8	2.3	2.4
19	26	9.4	10	11	18	11	6.2	3.3	2.0	2.6	2.5	2.1
20	11	9.3	9.4	10	17	10	6.2	6.9	2.7	1.7	2.4	2.2
21	7.1	9.6	7.8	9.5	26	9.2	8.0	4.3	2.4	1.4	2.1	2.2
22	5.3	9.4	7.6	10	30	8.5	9.6	3.5	2.1	1.1	2.1	2.3
23	4.9	9.8	13	10	26	11	10	3.2	2.1	0.81	2.0	2.2
24	8.3	12	12	11	24	11	13	3.2	2.0	0.67	2.0	2.2
25	7.0	12	11	9.6	20	11	14	2.9	1.9	0.62	2.0	2.2
26	6.3	11	9.8	11	18	11	13	2.6	1.7	0.49	2.6	3.2
27	22	12	8.3	12	16	10	12	2.5	1.5	1.0	2.9	2.9
28	23	12	7.8	11	e40	16	11	2.3	1.7	0.70	2.7	2.3
29	15	11	7.6	15	---	20	33	2.1	7.2	0.38	3.1	3.0
30	11	21	7.4	25	---	18	114	2.0	8.7	0.33	3.7	2.2
31	8.8	---	7.1	24	---	15	---	1.9	---	0.32	3.5	---
TOTAL	228.2	342.4	530.9	494.3	520	560.7	588.8	215.7	74.3	45.13	63.52	73.7
MEAN	7.36	11.4	17.1	15.9	18.6	18.1	19.6	6.96	2.48	1.46	2.05	2.46
MAX	26	27	86	47	40	48	114	47	8.7	10	5.0	4.3
MIN	2.8	5.8	7.1	6.3	11	8.5	6.2	1.9	1.5	0.32	0.42	1.7
CFSM	1.19	1.84	2.76	2.57	3.00	2.92	3.17	1.12	0.40	0.23	0.33	0.40
IN.	1.37	2.05	3.19	2.97	3.12	3.36	3.53	1.29	0.45	0.27	0.38	0.44

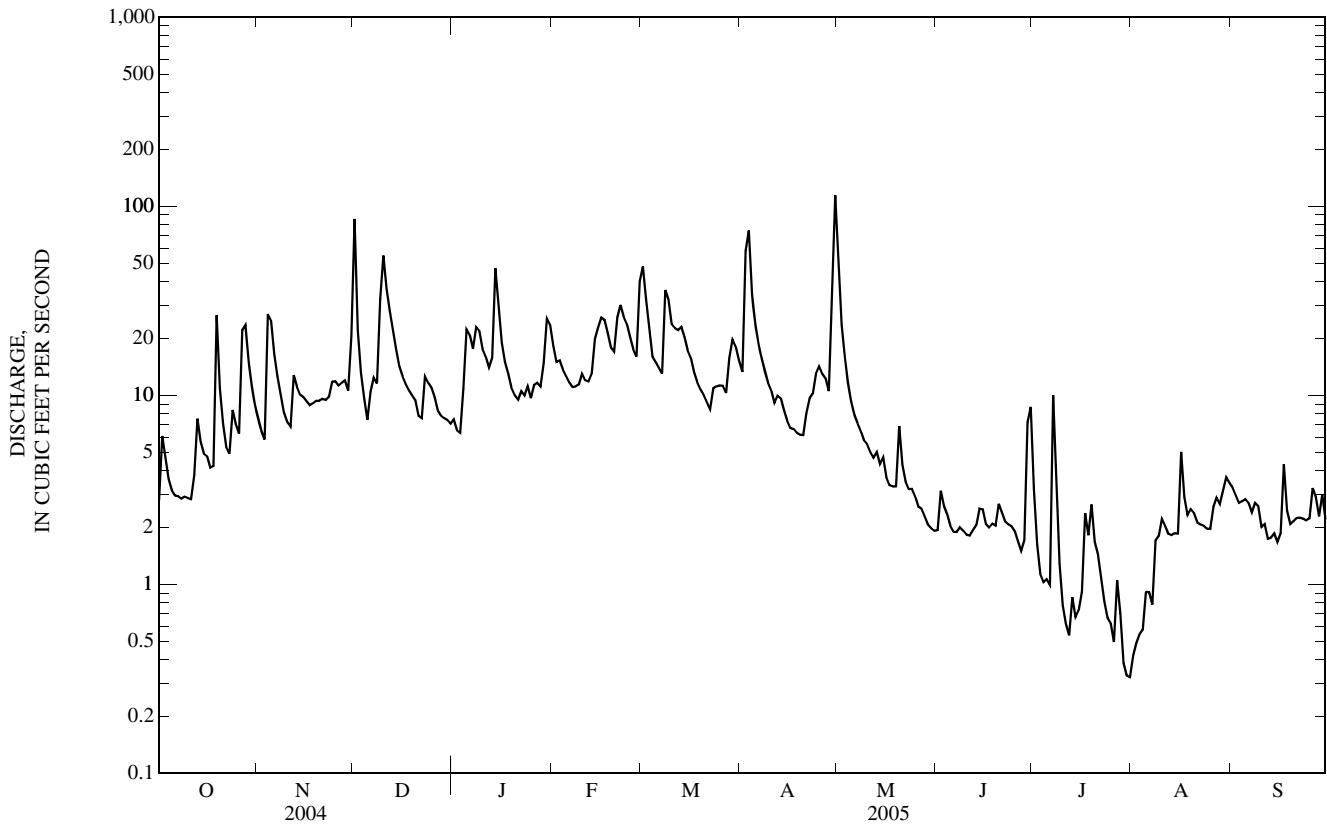
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2005, BY WATER YEAR (WY)

MEAN	3.68	6.43	8.23	13.8	14.1	17.2	14.3	11.0	8.47	3.78	3.51	2.61
MAX	28.0	31.0	18.8	42.6	36.9	53.6	30.7	47.7	25.8	23.2	14.0	13.2
(WY)	(1990)	(1974)	(1979)	(1974)	(2003)	(1975)	(1998)	(1989)	(2004)	(2000)	(2001)	(2004)
MIN	0.32	0.27	0.98	1.44	2.55	7.12	4.62	0.71	0.64	0.32	0.31	0.38
(WY)	(1992)	(1982)	(1982)	(1981)	(2002)	(1977)	(1982)	(1976)	(1980)	(1991)	(1981)	(1981)

03207965 GRAPEVINE CREEK NEAR PHYLLIS, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1974 - 2005	
ANNUAL TOTAL	5,422.3		3,737.65		8.69	
ANNUAL MEAN	14.8		10.2		5.30	
HIGHEST ANNUAL MEAN					17.2	1974
LOWEST ANNUAL MEAN					5.30	1992
HIGHEST DAILY MEAN	440	Jun 12	114	Apr 30	448	Apr 4, 1977
LOWEST DAILY MEAN	1.2	Jun 17	0.32	Jul 31	0.01	Aug 19, 1982
ANNUAL SEVEN-DAY MINIMUM	2.3	Sep 1	0.44	Jul 29	0.04	Sep 22, 1981
MAXIMUM PEAK FLOW			300	Apr 30	2,190	Jun 12, 2004
MAXIMUM PEAK STAGE			1.60	Apr 30	9.10	Apr 7, 1977
INSTANTANEOUS LOW FLOW					0.01	Aug 19, 1982
ANNUAL RUNOFF (CFSM)	2.39		1.65		1.40	
ANNUAL RUNOFF (INCHES)	32.53		22.43		19.05	
10 PERCENT EXCEEDS	27		23		18	
50 PERCENT EXCEEDS	6.9		7.4		3.5	
90 PERCENT EXCEEDS	3.0		1.7		0.64	

e Estimated



## BIG SANDY RIVER BASIN

## 03209500 LEVISA FORK AT PIKEVILLE, KY

LOCATION.--Lat 37°27'51", long 82°31'35", Pike County, Hydrologic Unit 05070203, on right bank 20 ft downstream from bridge on State Highway 1426, 0.75 mi downstream from Lanks Branch, 1.0 mi south of Pikeville, 1.5 mi upstream from Harolds Branch, and at mile 117.3.

DRAINAGE AREA.--1,232 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1937 to current year. Gage-height records collected in this vicinity since 1907 are contained in reports of National Weather Service.

REVISED RECORDS.--WRD KY 78-1: Drainage area.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 631.98 ft above NGVD of 1929. Prior to Sept. 23, 1944, nonrecording gage at site 2.3 mi downstream at datum 2.65 ft higher. Sept. 23, 1944 to Sept. 30, 1952, water-stage recorder 2.3 mi downstream at datum 1.65 ft higher. Oct. 1, 1952 to Sept. 30, 1979, at site 2.1 mi downstream at same datum.

REMARKS.--Records good. Flow regulated since March 1965 by John W. Flannagan Lake (station 03208990), since August 1966 by North Fork Pound River Lake (station 03208680) and since October 1968 by Fishtrap Lake (station 03207995).

COOPERATION.--U.S. Army Corps of Engineers, Huntington 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	983	1,440	e9,520	896	5,600	4,790	3,120	9,120	602	425	758	254
2	847	1,080	8,540	869	3,700	4,560	5,850	7,340	641	387	1,150	238
3	1,160	747	5,970	1,050	3,210	3,620	12,000	4,320	640	677	542	216
4	1,310	1,650	2,660	1,340	2,360	2,650	9,020	3,100	824	470	398	208
5	1,240	3,700	2,310	1,440	1,990	2,470	5,620	2,500	744	427	370	202
6	1,060	2,750	2,570	1,690	1,900	2,520	2,660	2,110	599	418	346	198
7	942	2,360	6,060	1,880	1,940	2,920	2,300	2,000	553	1,010	362	194
8	920	2,120	5,700	1,250	1,860	4,380	1,550	1,860	494	4,950	386	195
9	863	1,520	5,590	1,540	1,650	5,420	1,340	1,500	443	2,520	640	195
10	819	990	8,990	1,380	1,780	4,530	1,160	1,290	543	1,050	579	195
11	884	852	8,250	2,760	1,830	3,570	1,040	1,230	635	696	431	194
12	717	1,040	6,970	5,560	1,600	3,510	958	1,050	465	638	332	192
13	824	1,620	5,150	3,250	1,600	3,100	1,160	977	502	492	315	192
14	1,260	1,600	3,460	5,460	2,060	3,130	2,210	3,490	425	386	302	213
15	1,170	1,680	2,840	5,640	2,930	3,210	2,240	3,790	456	391	309	292
16	1,080	1,740	2,410	4,280	3,320	2,950	1,700	2,940	435	389	305	312
17	967	1,670	2,250	3,730	3,360	2,850	1,410	1,440	408	428	389	312
18	679	1,450	1,820	3,020	2,750	2,650	1,390	1,080	347	411	496	297
19	873	1,560	1,760	2,060	2,240	2,550	1,850	891	318	755	406	292
20	1,050	e1,840	1,520	1,920	2,040	2,480	1,760	967	311	1,600	460	286
21	973	1,300	1,370	1,680	2,300	2,320	1,620	1,230	324	1,570	367	284
22	838	1,110	1,350	1,510	2,710	2,080	1,490	1,150	304	801	366	281
23	782	897	1,460	1,600	2,990	2,040	1,580	1,100	297	640	411	280
24	890	1,120	1,830	1,690	2,640	2,110	1,700	1,120	288	556	393	278
25	943	1,620	1,620	1,890	2,460	2,130	2,150	1,050	279	383	375	277
26	836	2,660	1,540	1,810	1,910	2,150	2,400	752	273	322	262	282
27	3,570	2,950	1,550	1,820	1,820	2,120	2,040	668	267	330	252	295
28	6,740	2,480	1,460	1,700	2,750	2,910	2,120	642	272	430	251	295
29	3,210	1,840	1,260	1,620	---	5,160	2,790	625	329	646	256	296
30	1,930	1,390	1,190	3,270	---	5,140	7,310	650	431	1,010	274	291
31	1,740	---	916	4,760	---	4,000	---	621	---	599	268	---
TOTAL	42,100	50,776	109,886	74,365	69,300	100,020	85,538	62,603	13,449	25,807	12,751	7,536
MEAN	1,358	1,693	3,545	2,399	2,475	3,226	2,851	2,019	448	832	411	251
MAX	6,740	3,700	9,520	5,640	5,600	5,420	12,000	9,120	824	4,950	1,150	312
MIN	679	747	916	869	1,600	2,040	958	621	267	322	251	192

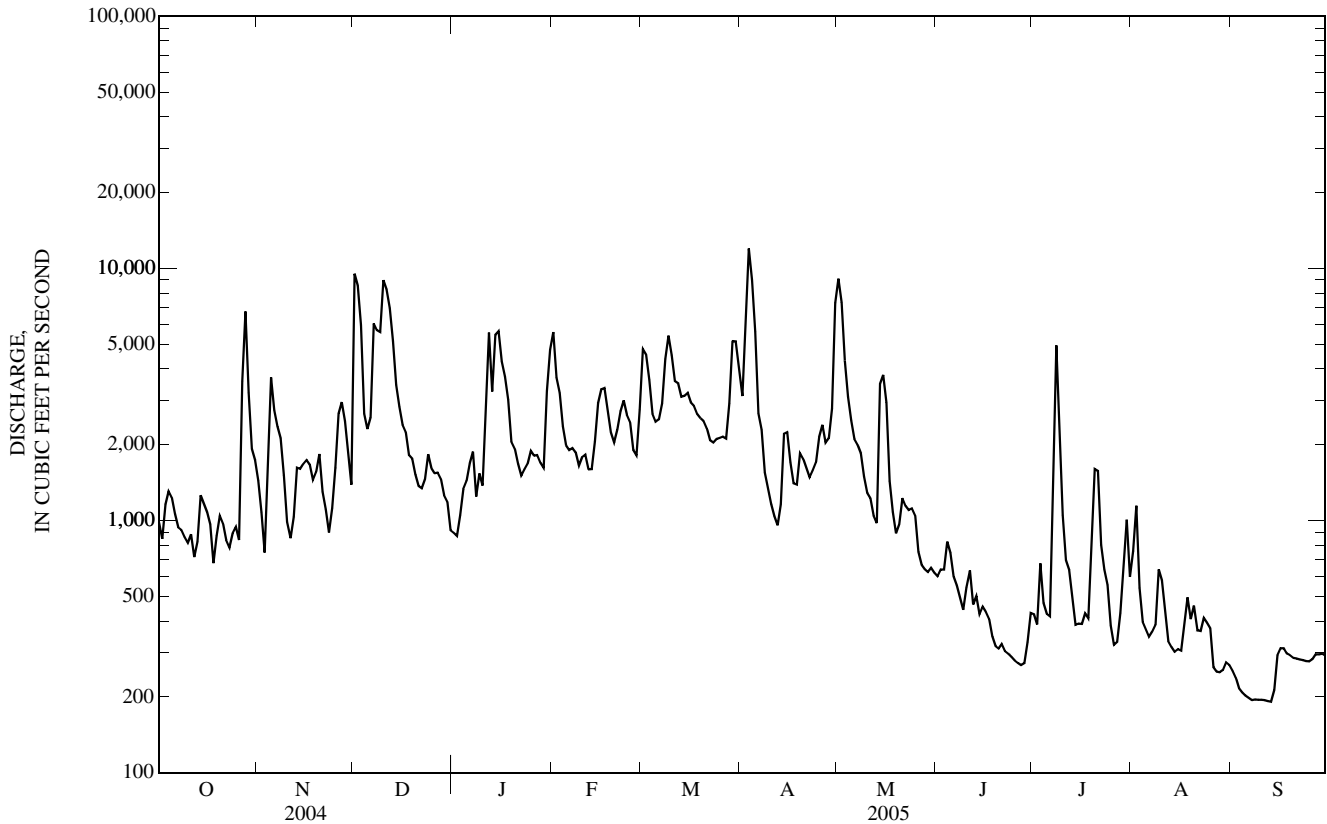
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2005, BY WATER YEAR (WY)

MEAN	785	1,133	1,574	2,282	2,814	2,914	2,357	2,006	1,121	653	506	478
MAX	3,939	3,991	5,385	6,861	6,804	8,081	7,646	6,067	3,523	2,028	1,150	1,606
(WY)	(1990)	(1978)	(1973)	(1974)	(2003)	(1975)	(1977)	(1984)	(2004)	(2001)	(2001)	(1989)
MIN	158	312	300	278	814	529	388	349	210	200	203	168
(WY)	(1970)	(2001)	(1981)	(1981)	(1992)	(1988)	(1986)	(1976)	(1988)	(1988)	(1969)	(1969)

03209500 LEVISA FORK AT PIKEVILLE, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1969 - 2005	
ANNUAL TOTAL	819,549		654,131		1,545	
ANNUAL MEAN	2,239		1,792		522	
HIGHEST ANNUAL MEAN					2,459	1979
LOWEST ANNUAL MEAN					522	1988
HIGHEST DAILY MEAN	12,900	Apr 14	12,000	Apr 3	69,300	Apr 5, 1977
LOWEST DAILY MEAN	288	Sep 6	192	Sep 12	66	Dec 3, 1970
ANNUAL SEVEN-DAY MINIMUM	323	Aug 23	194	Sep 7	103	Oct 10, 1968
MAXIMUM PEAK FLOW			12,400	Apr 3	85,500	Jan 30, 1957
MAXIMUM PEAK STAGE			21.46	Apr 3	52.72	Jan 30, 1957
INSTANTANEOUS LOW FLOW					66	Dec 3, 1970
10 PERCENT EXCEEDS	5,620		3,710		3,510	
50 PERCENT EXCEEDS	1,460		1,340		778	
90 PERCENT EXCEEDS	528		295		237	

e Estimated



BIG SANDY RIVER BASIN

03210000 JOHNS CREEK NEAR META, KY

LOCATION.--Lat 37°34'01", long 82°27'29", Pike County, Hydrologic Unit 05070203, on right bank 100 ft upstream from bridge on U.S. Highway 119, 1,100 ft downstream from Ford Branch, 0.7 mi upstream from Raccoon Creek, 1.2 mi southwest of Meta, and at mile 42.7.

DRAINAGE AREA.--56.3 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1941 to September 1993, October 1994 to current year.

REVISED RECORDS.--WSP 1705: Drainage area. WRD KY-76-1: 1975. WDR KY-87-1: 1986.

GAGE.--Water-stage recorder with telemetry and crest-stage gage. Datum of gage is 715.66 ft above NGVD of 1929. See WDR KY-90-1 for history of changes prior to Dec. 21, 1965.

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

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1939 reached a stage of 15.6 ft, from floodmark, present datum, at site 600 ft upstream, discharge, 4,500 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Apr 30	1130	*1,610	*12.66	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	22	36	550	47	139	348	133	436	15	17	8.4	16
2	22	30	263	45	114	235	341	226	22	13	8.8	11
3	27	28	155	44	112	182	563	147	21	13	9.3	7.3
4	21	129	112	62	100	154	297	113	18	12	9.2	7.5
5	19	138	89	230	91	150	207	92	17	11	8.7	7.4
6	18	87	104	190	83	137	161	80	15	13	9.2	6.6
7	17	64	114	150	76	133	135	71	14	117	8.1	6.1
8	16	49	107	253	75	239	118	64	15	84	8.4	9.0
9	15	38	238	220	73	229	104	53	21	32	14	8.7
10	17	33	410	158	95	193	93	47	28	22	13	8.5
11	17	31	272	126	86	179	83	44	45	18	13	8.7
12	17	59	199	107	85	186	81	39	24	16	12	5.7
13	25	52	157	95	83	188	82	36	22	14	9.8	5.2
14	34	46	122	240	118	170	73	38	20	18	9.3	8.2
15	23	42	97	199	140	146	65	41	31	35	7.8	8.1
16	22	40	81	148	159	130	59	31	19	31	11	8.9
17	22	37	73	113	165	117	56	28	15	32	15	28
18	20	36	66	88	139	105	54	27	13	36	13	10
19	157	45	61	77	115	96	54	26	14	21	28	6.6
20	72	47	e58	72	102	89	51	56	14	18	23	5.6
21	52	49	e54	71	166	81	51	35	13	15	15	7.7
22	36	49	48	77	227	77	78	28	12	29	12	8.2
23	31	48	63	89	181	99	76	25	12	15	10	7.9
24	42	56	58	84	147	119	83	26	14	13	11	7.5
25	38	67	55	78	122	110	86	23	11	12	11	5.4
26	33	64	54	e82	104	109	81	21	11	10	14	5.5
27	71	61	49	e98	91	101	89	21	13	12	21	11
28	92	61	43	e82	240	163	74	21	9.8	16	14	12
29	70	50	44	110	---	227	148	19	11	13	8.5	14
30	54	79	44	174	---	192	1,040	19	16	11	19	13
31	44	---	41	170	---	162	---	17	---	7.6	15	---
TOTAL	1,166	1,651	3,881	3,779	3,428	4,846	4,616	1,950	525.8	726.6	389.5	275.3
MEAN	37.6	55.0	125	122	122	156	154	62.9	17.5	23.4	12.6	9.18
MAX	157	138	550	253	240	348	1,040	436	45	117	28	28
MIN	15	28	41	44	73	77	51	17	9.8	7.6	7.8	5.2
CFSM	0.67	0.98	2.22	2.17	2.17	2.78	2.73	1.12	0.31	0.42	0.22	0.16
IN.	0.77	1.09	2.56	2.50	2.27	3.20	3.05	1.29	0.35	0.48	0.26	0.18

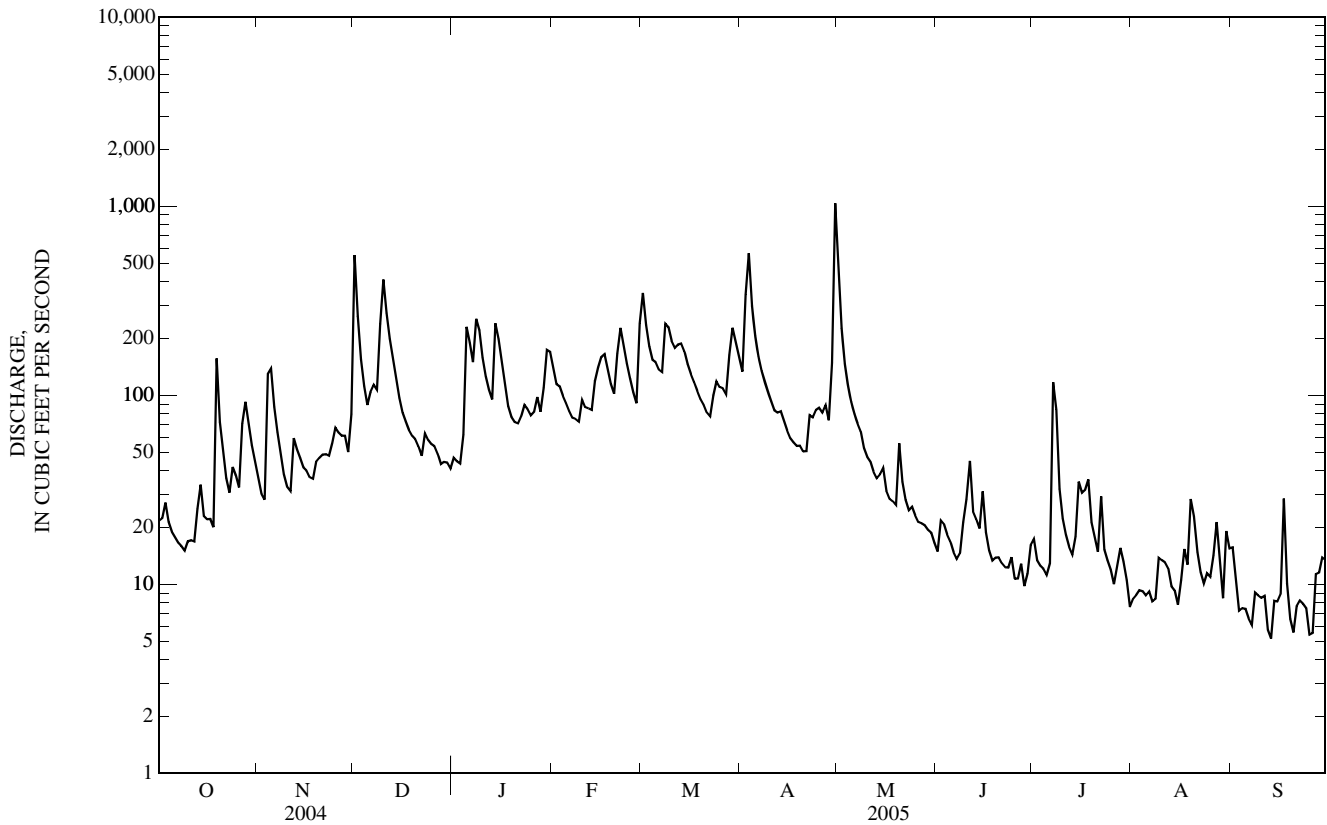
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2005, BY WATER YEAR (WY)

	17.7	37.6	73.1	106	137	159	119	73.3	41.5	27.7	18.5	16.9
MEAN	17.7	37.6	73.1	106	137	159	119	73.3	41.5	27.7	18.5	16.9
MAX	175	213	319	413	338	489	356	271	193	167	155	153
(WY)	(1990)	(1974)	(1973)	(1974)	(1972)	(1955)	(1948)	(1984)	(1979)	(2000)	(1942)	(1966)
MIN	0.00	0.23	0.95	6.57	17.5	36.0	15.8	7.33	1.99	0.42	0.35	0.00
(WY)	(1954)	(1954)	(1966)	(1966)	(1954)	(1988)	(1963)	(1941)	(1969)	(1944)	(1943)	(1943)

03210000 JOHNS CREEK NEAR META, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1941 - 2005	
ANNUAL TOTAL	31,625		27,234.2		68.8	
ANNUAL MEAN	86.4		74.6		135	
HIGHEST ANNUAL MEAN					1974	
LOWEST ANNUAL MEAN					24.5	
HIGHEST DAILY MEAN	1,580	May 31	1,040	Apr 30	3,340	May 7, 1984
LOWEST DAILY MEAN	11	Aug 28	5.2	Sep 13	0.00	Oct 1, 1941
ANNUAL SEVEN-DAY MINIMUM	14	Aug 22	6.8	Sep 20	0.00	Oct 1, 1941
MAXIMUM PEAK FLOW			1,610	Apr 30	7,380	Mar 12, 1963
MAXIMUM PEAK STAGE			12.66	Apr 30	19.62	May 7, 1984
INSTANTANEOUS LOW FLOW					0.00	Oct 1, 1941
ANNUAL RUNOFF (CFSM)	1.53		1.33		1.22	
ANNUAL RUNOFF (INCHES)	20.90		17.99		16.60	
10 PERCENT EXCEEDS	174		168		156	
50 PERCENT EXCEEDS	50		47		24	
90 PERCENT EXCEEDS	17		9.9		2.3	

e Estimated



## BIG SANDY RIVER BASIN

03212500 LEVISA FORK AT PAINTSVILLE, KY

LOCATION.--Lat 37°48'55", long 82°47'30", Johnson County, Hydrologic Unit 05070203, on left bank 700 ft downstream from bridge on State Highway 40 at Paintsville, 900 ft downstream from Paint Creek, and at mile 65.2.

DRAINAGE AREA.--2,144 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1915 to September 1916, October 1916 to November 1920 (gage heights only), and October 1928 to current year. Monthly discharge only for October to December 1928, published in WSP 1305. Published. (as "at Thelma" prior to 1928.)

REVISED RECORDS.--WSP 953: Drainage area.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 566.84 ft above NGVD of 1929. See WDR KY-90-1 for history of changes prior to Oct. 19, 1954.

REMARKS.--Records good. Flow regulated since May 1950 by Dewey Lake (station 03211000), since March 1965 by John Flannagan Lake (station 03208990), since August 1966 by North Fork Pound River Lake (station 03208680), since October 1968 by Fishtrap Lake (station 03207995).

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1862 reached a stage of 46.6 ft, from levels to floodmark by U.S. Army Corps of Engineers.

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

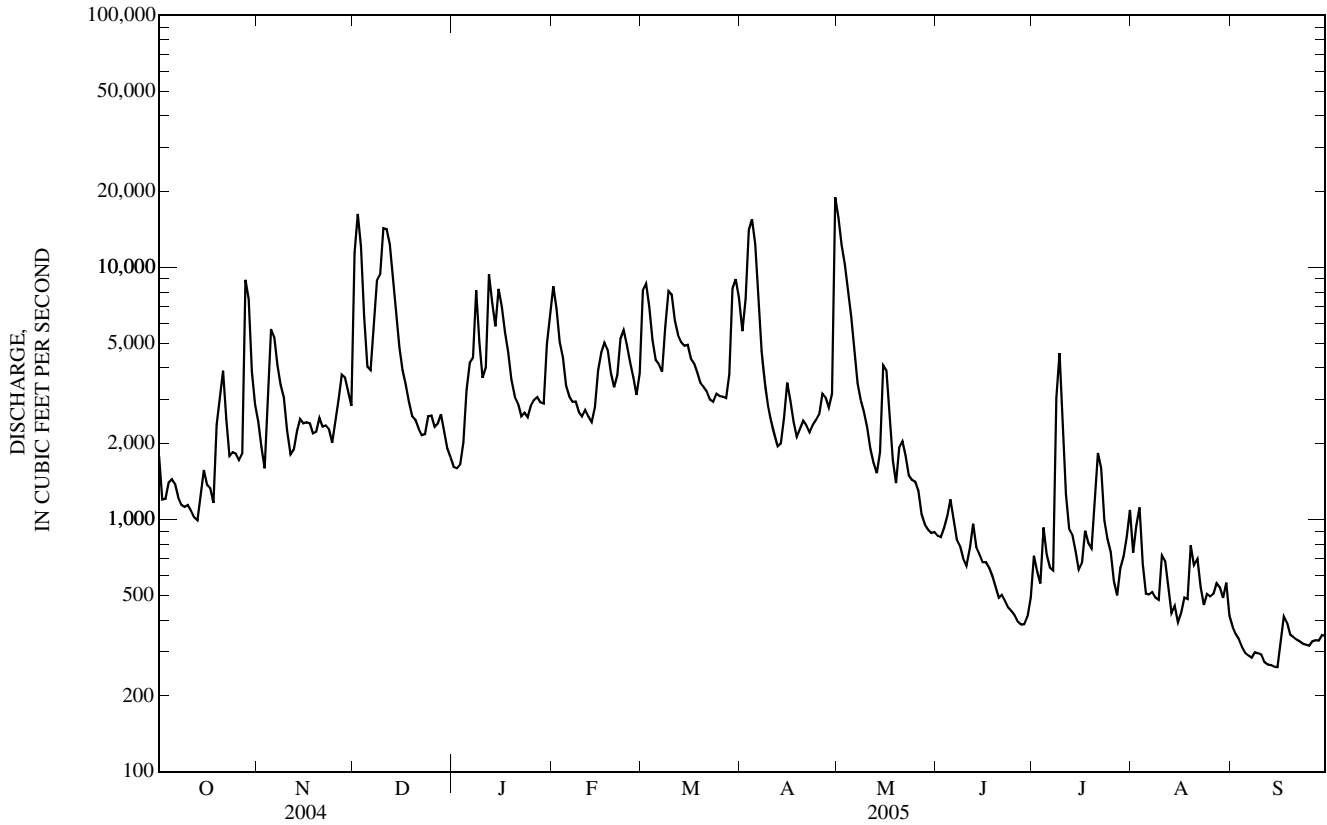
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,790	2,450	11,500	1,620	8,420	8,100	5,600	15,800	861	719	741	375
2	1,200	1,930	16,300	1,600	6,890	8,630	7,520	12,300	853	623	949	351
3	1,210	1,600	12,100	1,660	5,070	6,970	14,100	10,300	925	558	1,120	335
4	1,400	2,730	6,350	2,030	4,400	5,150	15,500	8,050	1,030	930	669	312
5	1,440	5,690	4,050	3,280	3,400	4,300	12,400	6,390	1,200	726	509	296
6	1,380	5,310	3,920	4,170	3,090	4,140	7,240	4,840	1,010	646	505	289
7	1,230	4,100	5,840	4,380	2,940	3,860	4,660	3,460	834	629	517	283
8	1,140	3,410	8,880	8,120	2,940	5,840	3,520	2,970	788	3,040	490	298
9	1,120	3,050	9,400	5,050	2,670	8,070	2,820	2,660	702	4,580	480	295
10	1,140	2,260	14,300	3,650	2,560	7,820	2,450	2,310	657	2,230	723	292
11	1,090	1,810	14,200	4,010	2,720	6,140	2,180	1,900	774	1,260	686	272
12	1,020	1,890	12,400	9,400	2,560	5,410	1,960	1,670	963	921	543	266
13	996	2,240	9,190	7,290	2,440	5,050	2,010	1,530	779	873	426	265
14	1,260	2,510	6,660	5,850	2,790	4,900	2,540	1,860	730	752	455	261
15	1,570	2,420	4,830	8,220	3,910	4,940	3,500	4,100	679	633	392	260
16	1,380	2,430	3,900	7,000	4,590	4,360	2,960	3,910	677	672	426	323
17	1,330	2,410	3,430	5,540	5,030	4,160	2,440	2,640	645	904	491	413
18	1,160	2,200	2,920	4,610	4,730	3,820	2,130	1,720	599	808	483	390
19	2,390	2,230	2,570	3,600	3,810	3,480	2,290	1,400	542	769	790	350
20	3,040	2,530	2,490	3,070	3,340	3,360	2,470	1,930	491	1,140	660	342
21	3,890	2,340	2,300	2,880	3,740	3,220	2,370	2,040	504	1,840	699	334
22	2,520	2,360	2,160	2,570	5,230	2,990	2,220	1,790	476	1,600	541	328
23	1,790	2,280	2,190	2,650	5,640	2,930	2,370	1,500	448	995	459	322
24	1,850	2,020	2,570	2,550	4,930	3,150	2,490	1,440	434	834	509	319
25	1,820	2,470	2,590	2,830	4,210	3,090	2,620	1,410	418	743	497	316
26	1,730	2,990	2,340	2,990	3,670	3,080	3,150	1,300	393	567	507	330
27	1,830	3,760	2,400	3,060	3,130	3,030	3,050	1,050	383	501	559	333
28	8,940	3,660	2,620	2,920	3,810	3,770	2,790	958	384	642	539	332
29	7,520	3,200	2,230	2,880	---	8,250	3,160	913	413	713	489	348
30	3,880	2,820	1,910	4,980	---	8,990	19,000	885	491	855	563	347
31	2,870	---	1,770	6,580	---	7,600	---	894	---	1,090	415	---
TOTAL	66,926	83,100	180,310	131,040	112,660	158,600	143,510	105,920	20,083	33,793	17,832	9,577
MEAN	2,159	2,770	5,816	4,227	4,024	5,116	4,784	3,417	669	1,090	575	319
MAX	8,940	5,690	16,300	9,400	8,420	8,990	19,000	15,800	1,200	4,580	1,120	413
MIN	996	1,600	1,770	1,600	2,440	2,930	1,960	885	383	501	392	260

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

MEAN	1,096	1,821	2,732	3,852	4,892	5,038	4,190	3,380	1,898	1,013	825	746
MAX	6,560	4,908	8,870	12,030	12,290	13,160	10,040	9,664	5,753	2,678	2,244	3,105
(WY)	(1990)	(1978)	(1973)	(1974)	(2003)	(1975)	(1987)	(1984)	(2004)	(2000)	(2001)	(2004)
MIN	181	447	570	435	1,336	963	594	519	278	257	291	239
(WY)	(1970)	(1970)	(1981)	(1981)	(2002)	(1988)	(1986)	(1976)	(1988)	(1988)	(1969)	(1969)

03212500 LEVISA FORK AT PAINTSVILLE, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1969 - 2005	
ANNUAL TOTAL	1,371,046		1,063,351		2,611	
ANNUAL MEAN	3,746		2,913		4,234	
HIGHEST ANNUAL MEAN					1975	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	31,900	May 31	19,000	Apr 30	42,000	Apr 6, 1977
LOWEST DAILY MEAN	428	Aug 28	260	Sep 15	98	Oct 1, 1968
ANNUAL SEVEN-DAY MINIMUM	493	Aug 22	273	Sep 9	122	Aug 27, 1969
MAXIMUM PEAK FLOW			21,000	Apr 30	69,700	Jan 31, 1957
MAXIMUM PEAK STAGE			23.90	Apr 30	45.92	Jan 31, 1957
INSTANTANEOUS LOW FLOW			256	Sep 15	98	Oct 1, 1968
10 PERCENT EXCEEDS	9,140		6,750		6,200	
50 PERCENT EXCEEDS	2,340		2,240		1,280	
90 PERCENT EXCEEDS	859		417		372	





## LITTLE SANDY RIVER BASIN

03216500 LITTLE SANDY RIVER AT GRAYSON, KY

LOCATION.--Lat 38°19'48", long 82°56'22", Carter County, Hydrologic Unit 05090104, on left bank 0.3 mi upstream from bridge on U.S. Highway 60, 0.5 mi downstream from Town Branch, 0.5 mi east of Grayson, and at mile 38.1.

DRAINAGE AREA.--400 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1938 to current year. Prior to October 1964, published as "near Grayson."

REVISED RECORDS.--WSP 1435: 1939(M), 1943(M), 1948(P). WSP 1725: Drainage area.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 557.95 ft above NGVD of 1929. Prior to Aug. 11, 1939, nonrecording gage and Aug. 11, 1939 to Jan. 29, 1965, water-stage recorder at site 1.6 mi downstream at same datum. Apr. 6, 1948 to Jan. 29, 1965, supplementary nonrecording gage 800 ft downstream at same datum.

REMARKS.--Records good. Flow regulated since March 1968 by Grayson Lake (station 03216300).

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

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

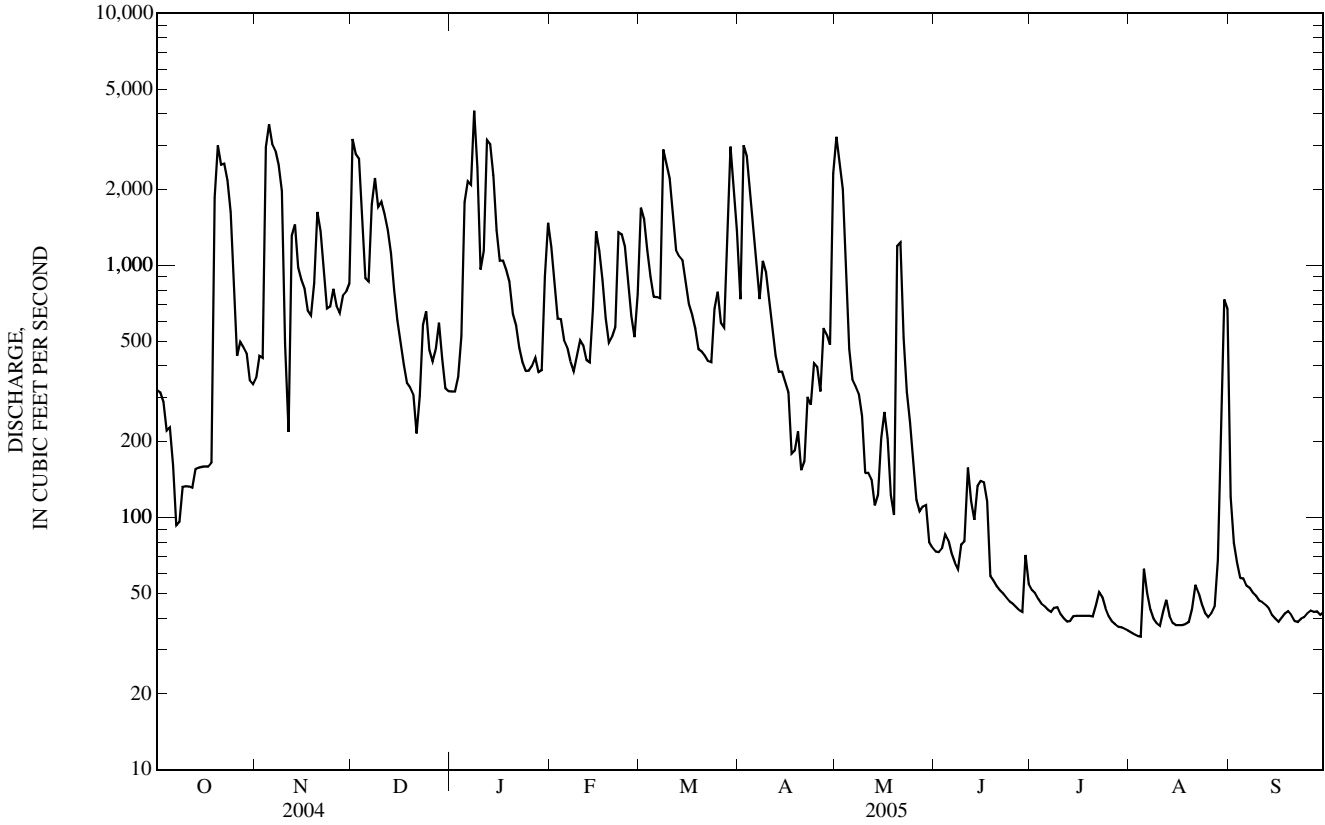
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	320	358	3,170	317	1,190	1,690	734	3,240	73	52	35	121
2	314	438	2,770	316	852	1,520	3,000	2,550	73	50	34	79
3	287	430	2,650	362	616	1,150	2,710	2,010	76	48	34	66
4	222	2,950	1,600	524	612	903	2,020	1,020	86	46	34	58
5	228	3,630	890	1,790	506	751	1,430	467	81	45	63	57
6	162	3,040	864	2,160	473	750	1,060	353	72	43	50	54
7	93	2,860	1,750	2,090	415	740	736	333	66	42	43	53
8	96	2,510	2,220	4,110	380	2,880	1,040	310	63	44	40	50
9	133	1,980	1,700	2,450	437	2,510	939	253	78	44	38	49
10	133	489	1,790	963	506	2,210	741	150	81	41	37	47
11	133	218	1,600	1,140	482	1,640	582	150	158	40	42	46
12	131	1,320	1,390	3,150	421	1,150	439	142	116	39	47	45
13	156	1,460	1,120	3,030	413	1,090	380	112	98	39	41	44
14	158	981	797	2,270	669	1,050	379	123	133	41	38	41
15	159	878	606	1,380	1,370	868	344	207	140	41	38	40
16	160	808	491	1,050	1,140	703	314	262	138	41	38	39
17	159	662	406	1,050	876	638	180	206	116	41	38	40
18	165	635	343	961	618	561	185	123	59	41	38	42
19	1,860	853	328	861	494	466	220	103	56	41	38	43
20	2,990	1,630	309	642	521	457	154	1,200	54	41	43	41
21	2,510	1,370	216	578	569	439	167	1,230	52	45	54	39
22	2,540	980	304	471	1,350	417	301	515	50	51	50	39
23	2,180	674	582	413	1,330	413	281	315	48	49	45	40
24	1,630	687	657	382	1,190	674	409	239	46	44	42	40
25	919	809	461	383	864	787	397	166	46	41	40	42
26	437	693	416	400	633	593	316	118	44	39	42	43
27	497	649	465	430	520	569	564	106	43	38	44	42
28	475	760	593	377	770	1,260	533	111	42	37	68	42
29	449	788	428	384	---	2,960	484	112	71	37	284	41
30	349	849	326	906	---	2,030	2,320	80	55	36	732	42
31	337	---	317	1,480	---	1,380	---	76	---	36	672	---
TOTAL	20,382	36,389	31,559	36,820	20,217	35,249	23,359	16,382	2,314	1,313	2,882	1,465
MEAN	657	1,213	1,018	1,188	722	1,137	779	528	77.1	42.4	93.0	48.8
MAX	2,990	3,630	3,170	4,110	1,370	2,960	3,000	3,240	158	52	732	121
MIN	93	218	216	316	380	413	154	76	42	36	34	39

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

MEAN	176	384	610	726	936	1,012	684	665	326	173	114	154
MAX	733	1,415	2,630	1,954	2,886	3,226	2,291	2,116	1,410	841	399	1,776
(WY)	(1990)	(2004)	(1979)	(1974)	(1989)	(1997)	(1972)	(1996)	(2003)	(1971)	(2003)	(2004)
MIN	30.1	28.4	53.6	45.2	129	133	109	62.1	34.4	33.6	34.7	30.4
(WY)	(1981)	(1982)	(1982)	(1981)	(2002)	(1969)	(2001)	(1976)	(1999)	(1999)	(1988)	(1998)

03216500 LITTLE SANDY RIVER AT GRAYSON, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1969 - 2005	
ANNUAL TOTAL	313,597		228,331		494	
ANNUAL MEAN	857		626		838	
HIGHEST ANNUAL MEAN					116	
LOWEST ANNUAL MEAN					1979	
HIGHEST DAILY MEAN	8,460	Sep 18	4,110	Jan 8	14,600	Mar 2, 1997
LOWEST DAILY MEAN	52	Jul 22	34	Aug 2	5.8	Oct 1, 1968
ANNUAL SEVEN-DAY MINIMUM	56	Jul 16	35	Jul 29	18	Nov 1, 1968
MAXIMUM PEAK FLOW			5,000		24,500	
MAXIMUM PEAK STAGE			18.78		30.57	
INSTANTANEOUS LOW FLOW					1.5	
10 PERCENT EXCEEDS	2,510		1,770		1,420	
50 PERCENT EXCEEDS	434		353		167	
90 PERCENT EXCEEDS	64		41		39	



## 03216600 OHIO RIVER AT GREENUP DAM

LOCATION.--Lat 38°38'48", long 82°51'38", Greenup County, Hydrologic Unit 05090103, at left bank at downstream end of lock guidewall in lower pool at Greenup locks, 1.1 mi upstream from Grays Branch, 4.7 mi downstream from Little Sandy River, 5.0 mi north of Greenup, and at mile 341.5.

DRAINAGE AREA.--62,000 mi<sup>2</sup>, approximately.

## WATER DISCHARGE RECORDS

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

GAGE.--Records of Greenup Dam gate operations and hydropower releases furnished by the U.S. Army Corps of Engineers are used to determine daily discharge. Water-stage recorder with telemetry in Greenup Dam tailwater for peak stage determinations. Datum of gage is 472.43 ft above NGVD of 1929 or 472.97 ft Ohio River Datum. Auxiliary water-stage recorder is located at the waste water treatment plant in Portsmouth, Ohio, 14.1 mi downstream, established Oct. 1, 1981 and used in slope rating computation from Oct. 1, 1981 to Sept. 30, 1983. Datum of gage is 470.43 ft above NGVD of 1929 or 470.99 ft Ohio River Datum. Record of Greenup Dam headwater, tailwater, gate openings and lockages used to determine discharge from Oct. 1, 1968 to Sept. 30, 1981. Slope rating computation from Oct. 1, 1981 to Sept. 30, 1983, and Branch Flow Model, gate and tailwater rating from Oct. 1, 1983 to current year.

REMARKS.--Records good except for those below 20,000 ft<sup>3</sup>/s and those estimated, which are poor. Flow regulated by Ohio River system of locks, dams, and reservoirs upstream from station.

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

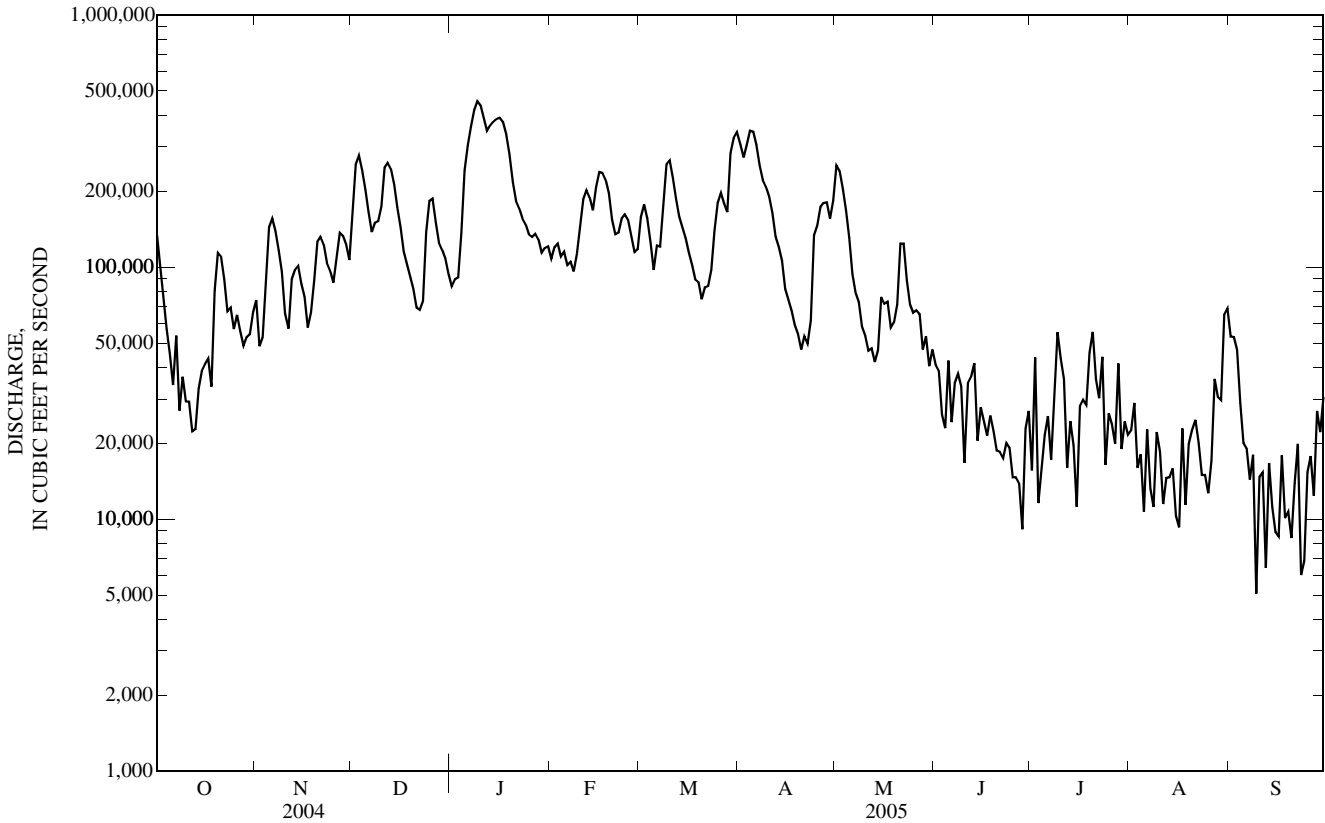
DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134,000	73,900	158,000	83,900	108,000	158,000	306,000	253,000	41,100	15,600	22,500	53,200
2	102,000	48,500	256,000	89,400	120,000	177,000	272,000	241,000	38,900	43,800	28,900	52,800
3	75,000	52,700	277,000	90,900	124,000	156,000	306,000	205,000	26,000	11,600	16,000	47,000
4	56,800	93,000	242,000	137,000	110,000	126,000	348,000	168,000	23,000	16,100	18,100	29,000
5	45,200	144,000	203,000	242,000	115,000	97,700	345,000	131,000	42,600	21,600	10,700	20,100
6	34,100	156,000	165,000	304,000	102,000	122,000	305,000	94,100	24,300	25,700	22,700	19,100
7	53,500	139,000	138,000	362,000	105,000	121,000	254,000	79,100	34,800	17,200	13,300	14,400
8	27,000	117,000	150,000	420,000	96,200	181,000	222,000	72,600	37,800	29,300	11,200	18,000
9	36,800	95,900	152,000	456,000	113,000	256,000	208,000	58,000	33,700	55,200	22,200	5,070
10	29,400	65,500	174,000	438,000	146,000	265,000	190,000	53,500	16,700	43,500	18,600	14,700
11	29,300	57,000	248,000	389,000	186,000	226,000	164,000	46,600	34,700	36,000	11,500	15,300
12	22,300	89,800	259,000	347,000	202,000	186,000	132,000	47,600	36,800	16,000	14,600	6,400
13	22,800	97,500	245,000	365,000	189,000	158,000	120,000	42,100	41,600	24,500	14,700	16,700
14	33,000	101,000	213,000	378,000	168,000	143,000	106,000	46,900	20,500	19,700	15,900	11,200
15	38,800	85,800	172,000	387,000	208,000	130,000	81,800	76,100	27,800	11,200	10,300	8,900
16	41,200	76,200	144,000	391,000	239,000	114,000	74,400	71,600	24,400	28,100	9,270	8,550
17	43,300	57,700	115,000	377,000	237,000	102,000	67,200	72,900	21,500	29,800	22,900	17,900
18	33,600	66,200	103,000	337,000	222,000	89,500	58,800	57,500	25,800	28,400	11,400	10,100
19	80,800	88,300	91,900	282,000	196,000	87,300	54,300	60,500	22,400	45,900	19,900	10,700
20	114,000	126,000	81,800	217,000	154,000	74,600	47,200	71,200	18,700	55,300	22,500	8,430
21	110,000	132,000	69,200	183,000	135,000	83,200	53,300	124,000	18,500	36,000	24,800	13,900
22	89,300	123,000	67,700	171,000	137,000	84,200	49,800	124,000	17,500	30,200	20,100	19,900
23	66,700	104,000	73,400	156,000	156,000	97,700	61,600	88,800	20,100	44,100	15,000	6,000
24	69,100	96,900	138,000	148,000	162,000	140,000	134,000	71,100	19,200	16,400	15,000	6,820
25	56,800	86,800	183,000	135,000	154,000	180,000	146,000	66,000	14,700	26,300	12,700	15,400
26	64,600	109,000	187,000	132,000	133,000	197,000	173,000	67,300	14,700	23,800	17,100	17,800
27	55,700	137,000	151,000	136,000	115,000	179,000	180,000	65,300	13,900	19,900	36,000	12,400
28	48,800	133,000	125,000	129,000	118,000	165,000	181,000	47,200	9,110	41,400	30,600	26,900
29	52,800	123,000	117,000	114,000	---	284,000	156,000	53,100	22,900	19,000	29,700	22,200
30	54,300	107,000	108,000	119,000	---	325,000	184,000	40,500	26,900	24,400	64,800	30,600
31	66,100	---	93,600	121,000	---	343,000	---	47,200	---	21,600	68,500	---
TOTAL	1,787,100	2,982,700	4,900,600	7,637,200	4,250,200	5,048,200	4,980,400	2,742,800	770,610	877,600	671,470	559,470
MEAN	57,650	99,420	158,100	246,400	151,800	162,800	166,000	88,480	25,690	28,310	21,660	18,650
MAX	134,000	156,000	277,000	456,000	239,000	343,000	348,000	253,000	42,600	55,300	68,500	53,200
MIN	22,300	48,500	67,700	83,900	96,200	74,600	47,200	40,500	9,110	11,200	9,270	5,070

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

MEAN	38,680	70,740	109,500	119,700	143,400	161,700	143,500	107,700	69,020	45,180	37,190	37,400
MAX	111,300	208,600	252,700	246,400	259,100	268,600	258,400	276,700	174,000	100,700	113,600	184,300
(WY)	(1980)	(1986)	(1973)	(2005)	(1994)	(1994)	(1994)	(1996)	(1981)	(1972)	(1980)	(2004)
MIN	11,310	14,720	24,080	27,170	66,240	53,550	52,660	36,610	13,440	13,040	11,270	9,706
(WY)	(1992)	(1999)	(1999)	(1977)	(1978)	(1969)	(1986)	(1976)	(1988)	(1999)	(1988)	(1999)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1969 - 2005	
ANNUAL TOTAL	47,540,100		37,208,350		90,010	
ANNUAL MEAN	129,900		101,900		136,300	
HIGHEST ANNUAL MEAN					49,760	2004
LOWEST ANNUAL MEAN					540,000	1988
HIGHEST DAILY MEAN	448,000	Apr 16	456,000	Jan 9	540,000	Jan 12, 1974
LOWEST DAILY MEAN	18,300	Aug 19	5,070	Sep 9	3,920	Jun 11, 1999
ANNUAL SEVEN-DAY MINIMUM	26,800	Aug 13	10,800	Sep 14	7,740	Sep 22, 1999
MAXIMUM PEAK FLOW			465,000		520,000	Mar 4, 1997
MAXIMUM PEAK STAGE			56.64		56.64	Jan 10, 2005
10 PERCENT EXCEEDS	263,000		238,000		202,000	
50 PERCENT EXCEEDS	104,000		73,900		63,300	
90 PERCENT EXCEEDS	38,200		16,000		17,100	



(National stream-quality accounting network station)

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to September 1986, 1997 to current water year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--October 1974 to September 1981.

WATER TEMPERATURES.--October 1974 to September 1981.

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

## 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												
15...	1430	Environmental	94,400	0.077	0.057	759	10.8	7.2	321	11.5	110	29.9
DEC												
15...	1030	Environmental	166,000	.055	.041	749	9.4	7.6	251	7.0	94	24.7
15...	1038	Field Blank	--	--	--	--	--	--	--	--	--	E0.02
JAN												
11...	1600	Environmental	372,000	.078	.058	743	12.6	7.1	219	6.5	83	22.8
26...	1730	Environmental	132,000	.054	.039	745	14.6	7.8	298	1.5	110	29.0
MAR												
10...	1150	Environmental	258,000	.043	.032	741	14.4	7.0	322	5.0	110	28.4
10...	1158	Field Blank	--	--	--	--	--	--	--	--	--	--
31...	1230	Environmental	112,000	.056	.042	744	12.0	7.6	267	9.0	94	25.2
APR												
21...	1415	Environmental	83,900	.045	.034	--	--	7.7	313	16.0	110	29.6
MAY												
11...	1600	Environmental	52,200	.049	.037	745	12.9	7.6	340	15.5	120	30.1
11...	1608	Field Blank	--	.004	.005	--	--	--	--	--	--	--
24...	1500	Environmental	76,100	.067	.051	746	9.9	7.4	367	18.0	130	33.5
24...	1510	Replicate	--	.066	.050	--	--	--	--	--	130	33.2
JUN												
08...	1530	Environmental	38,500	.057	.042	748	10.4	7.9	400	23.0	140	34.1
22...	1410	Environmental	18,300	.046	.034	745	7.9	7.7	439	26.0	150	39.1
22...	1418	Field Blank	--	--	--	--	--	--	--	--	--	--
JUL												
14...	1420	Environmental	13,500	.053	.039	745	7.2	7.5	436	28.0	150	38.1
AUG												
05...	1000	Environmental	14,300	.061	.043	747	--	7.8	472	31.0	160	41.0
05...	1010	Replicate	--	.063	.045	--	--	--	--	--	160	39.6
SEP												
20...	1630	Environmental	7,840	.073	.052	755	7.3	7.6	510	26.0	160	42.7

## 03216600 OHIO RIVER AT GREENUP 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 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, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)
NOV 15...	9.12	2.58	15.8	58	71	16.2	0.1	6.05	65.7	199	0.19	.36	<0.04
DEC 15...	7.73	1.90	10.4	46	56	10.5	E.1	7.03	48.8	145	.14	.36	<.04
15...	<0.008	<0.010	<0.20	--	--	0.12	<.01	0.06	<0.01	--	--	--	<.010
JAN 11...	6.20	2.15	9.39	36	44	10.2	.1	6.86	42.5	135	.19	.56	<.04
26...	8.63	2.23	13.3	45	55	17.4	E.1	6.69	58.4	173	.24	.34	.05
MAR 10...	8.69	1.75	19.2	42	52	25.9	E.1	6.63	57.1	186	.18	.41	.04
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
31...	7.54	1.65	14.0	38	47	17.5	.1	5.68	51.7	158	.15	.65	E.03
APR 21...	9.76	1.92	16.0	55	66	17.5	.1	5.21	62.1	191	.11	.25	<.04
MAY 11...	10.5	1.95	16.6	56	69	18.2	.1	5.06	68.8	205	E.10	.23	<.04
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	12.0	2.15	20.2	58	70	21.8	.1	3.30	73.7	214	.24	.41	<.04
24...	11.5	2.19	19.6	59	72	21.9	.1	3.29	73.8	213	.18	.40	E.02
JUN 08...	12.6	2.23	22.7	62	75	24.5	.1	.48	83.8	236	.20	.32	<.04
22...	13.8	2.44	26.5	65	80	26.0	.2	.74	93.0	256	.20	.42	<.04
22...	--	--	--	--	--	--	--	--	--	--	--	--	<.010
JUL 14...	13.7	2.55	27.1	65	80	29.3	.2	2.48	84.9	249	.30	.29	.04
AUG 05...	14.6	3.15	31.9	59	72	36.8	.2	.13	95.3	268	.30	.29	E.02
05...	14.1	3.13	31.1	58	71	36.8	.2	.13	95.4	263	.22	.27	E.02
SEP 20...	13.0	3.23	38.0	59	72	38.5	.2	1.86	110	312	.30	.33	<.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)	Pheophytin a, phytoplankton, ug/L (62360)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Arsenic water, fltrd, ug/L (01000)
NOV 15...	.64	E0.005	0.15	0.009	0.017	0.08	1.3	<0.1	1.3	2.6	E1.9	E2.9	0.3
DEC 15...	.68	E.006	.19	.007	.013	.09	2.4	<.1	2.4	2.1	3.1	1.9	.3
15...	<.016	<.002	--	<.006	--	--	--	--	--	--	--	--	<.2
JAN 11...	.80	E.006	.27	E.004	.009	.09	3.0	<.1	3.0	2.7	2.4	1.0	.4
26...	.93	.011	.18	E.005	.011	.07	1.6	<.1	1.5	2.1	E1.0	E0.8	.2
MAR 10...	.81	.008	.16	E.004	.008	.10	2.2	.1	2.1	1.6	1.6	2.4	E.1
10...	--	--	--	--	--	--	--	--	--	--	<0.3	<.3	--
31...	.70	.008	.42	E.004	.009	.18	6.1	.2	5.9	1.8	3.4	2.1	.4
APR 21...	.72	E.005	.11	<.006	.006	E.03	.7	<.1	.7	1.7	3.0	7.7	.3
MAY 11...	.72	E.004	.14	<.006	.006	.03	.8	<.1	.8	1.6	4.5	5.7	.3
11...	--	--	.03	--	--	--	.1	<.1	.1	E.3	--	--	--
24...	.66	.008	.22	<.006	.008	E.06	1.5	<.1	1.4	2.5	9.3	10.4	.4
24...	.65	.008	.19	E.003	.010	.06	1.2	<.1	1.2	2.3	8.2	8.0	.4
JUN 08...	.56	.011	.15	<.006	.006	.03	1.3	<.1	1.3	2.2	5.3	6.6	.3
22...	.57	.013	.21	<.006	.007	.03	1.2	<.1	1.2	2.0	4.4	9.8	.6
22...	E.012	<.002	--	<.006	--	--	--	--	--	--	--	--	--
JUL 14...	.66	.018	.11	E.003	.012	.03	.6	<.1	.6	10.8	2.8	5.1	.6
AUG 05...	.54	.014	.08	<.006	.005	.01	.7	<.1	.7	3.9	3.3	5.8	.7
05...	.53	.013	.09	<.006	.007	.01	.7	<.1	.7	2.2	5.2	10.1	.6
SEP 20...	.87	.053	.11	<.006	.011	.03	.8	<.1	.8	4.8	3.5	11.0	.63

## 03216600 OHIO RIVER AT GREENUP 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 (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 (82686)
NOV 15...	35	14	5.0	E0.3	190	0.2	<0.006	E0.004	<0.006	<0.005	<0.005	0.027	<0.050
DEC 15...	27	25	3.7	E.3	153	.1	<.006	<.006	<.006	<.005	<.005	.022	<.050
15...	<8	<6	<0.6	<.4	<0.40	<.1	--	--	--	--	--	--	--
JAN 11...	25	26	3.0	E.3	113	.2	<.006	<.006	<.006	<.005	<.005	.013	<.050
26...	28	17	4.8	<.4	147	.2	<.006	E.006	<.006	<.005	<.005	.019	<.050
MAR 10...	37	13	4.5	<.4	169	.2	<.006	E.004	<.006	<.005	<.005	.008	<.050
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
31...	28	20	5.0	<.4	162	.5	<.006	<.006	<.006	<.005	<.005	E.006	<.050
APR 21...	23	10	5.6	.5	198	.4	<.006	<.006	<.007	<.005	<.005	.009	<.050
MAY 11...	32	10	6.8	.5	205	.3	<.006	E.007	.039	<.005	<.005	.189	<.050
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	57	7	5.9	.8	213	.4	<.006	E.027	.099	<.005	<.005	.409	<.050
24...	57	6	5.9	.9	212	.4	<.006	E.025	.092	<.005	<.005	.386	<.050
JUN 08...	42	7	8.4	E.2	241	.3	<.006	E.018	E.022	<.005	<.005	E.232	<.050
22...	47	E3	10.7	.5	259	.6	<.006	E.020	.014	<.005	<.005	.169	<.050
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 14...	45	E5	9.6	.7	264	.6	<.006	E.011	<.010	<.005	<.005	.104	<.050
AUG 05...	65	<6	7.5	E.3	274	.4	<.006	E.013	<.006	<.005	<.005	.115	<.050
05...	67	E3	7.7	E.4	274	.4	<.006	E.013	<.006	<.005	<.005	.116	<.050
SEP 20...	58	E5	8.1	.50	310	.35	<.006	E.008	<.006	<.005	<.005	.048	<.050

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

Date	Ben- flur- alin, water, fltrd 0.7u GF (82673)	Butyl- ate, water, fltrd, ug/L (04028)	Car- baryl, water, fltrd 0.7u GF (82680)	Carbo- furan, water, fltrd 0.7u GF (82674)	Chlor- pyrifos water, fltrd, ug/L (38933)	cis- Per- methrin water fltrd 0.7u GF (82687)	Cyana- zine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF (82682)	Diazi- non, water, fltrd, ug/L (39572)	Diel- drin, water, fltrd, ug/L (39381)	Disul- foton, water, fltrd 0.7u GF (82677)	EPTC, water, fltrd 0.7u GF (82668)	Ethal- flur- alin, water, fltrd 0.7u GF (82663)
NOV 15...	<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
DEC 15...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.021	<0.009
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 11...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009
26...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009
MAR 10...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
31...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009
APR 21...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009
MAY 11...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.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	<.02	<0.004	<0.009
JUN 08...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009
22...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 14...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009
AUG 05...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009
05...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009
SEP 20...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009

## 03216600 OHIO RIVER AT GREENUP 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 15...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	0.008	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
DEC 15...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	<0.006	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 11...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	.007	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
26...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	.010	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
MAR 10...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	<0.006	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
31...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	<0.006	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
APR 21...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	<0.006	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
MAY 11...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	.042	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	.094	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
24...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	.087	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
JUN 08...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	E.060	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
22...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	.033	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 14...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	.021	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
AUG 05...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	.030	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
05...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	.025	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
SEP 20...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	.009	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004

## 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)	Simaz- ine, 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 15...	<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
DEC 15...	<0.022	<0.011	<.01	<0.004	<0.025	<0.011	<.02	<0.005	<.02	<0.034	<.02	<0.010	<0.006
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 11...	<0.022	<0.011	<.01	<0.004	<0.025	<0.011	<.02	<0.005	<.02	<0.034	<.02	<0.010	<0.006
26...	<0.022	<0.011	<.01	<0.004	<0.025	<0.011	<.02	.031	<.02	<0.034	<.02	<0.010	<0.006
MAR 10...	<0.022	<0.011	<.01	<0.004	<0.025	<0.011	<.02	<0.005	<.02	<0.034	<.02	<0.010	<0.006
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
31...	<0.022	<0.011	<.01	<0.004	<0.025	<0.011	<.02	<0.005	<.02	<0.034	<.02	<0.010	<0.006
APR 21...	<0.022	<0.011	<.01	<0.004	<0.025	<0.011	<.02	<0.005	<.02	<0.034	<.02	<0.010	<0.006
MAY 11...	<0.022	<0.011	<.01	<0.004	<0.025	<0.011	<.02	<0.024	<.02	<0.034	<.02	<0.010	<0.006
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	<0.022	<0.011	.01	<0.004	<0.025	<0.011	<.02	.067	.02	<0.034	<.02	<0.010	<0.006
24...	<0.022	<0.011	.01	<0.004	<0.025	<0.011	<.02	.063	.02	<0.034	<.02	<0.010	<0.006
JUN 08...	<.022	<.011	E.01	<.004	<.025	<.011	<.02	E.032	<.02	<.034	<.02	<.010	<.006
22...	<.022	<.011	.01	<.004	<.025	<.011	<.02	.038	.02	<.034	<.02	<.010	<.006
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 14...	<.022	<.011	E.01	<.004	<.025	<.011	<.02	.017	<.02	<.034	<.02	<.010	<.006
AUG 05...	<.022	<.011	.02	<.004	<.025	<.011	<.02	.014	<.02	<.034	<.02	<.010	<.006
05...	<.022	<.011	.02	<.004	<.025	<.011	<.02	.015	<.02	<.034	<.02	<.010	<.006
SEP 20...	<.022	<.011	.02	<.004	<.025	<.011	<.02	<.011	<.02	<.034	<.02	<.010	<.006



## OHIO RIVER MAIN STEM

03216600 OHIO RIVER AT GREENUP 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			
15...	<0.009	97	38
DEC			
15...	<.009	91	62
15...	--	--	--
JAN			
11...	<.009	84	138
26...	<.009	91	39
MAR			
10...	<.009	72	125
10...	--	--	--
31...	<.009	79	261
APR			
21...	<.009	--	--
MAY			
11...	<.009	98	10
11...	--	--	--
24...	<.009	99	28
24...	<.009	99	32
JUN			
08...	<.009	97	12
22...	<.009	99	10
22...	--	--	--
JUL			
14...	<.009	98	5
AUG			
05...	<.009	98	4
05...	<.009	100	8
SEP			
20...	<.009	99	14

E--Laboratory estimated value.

M--Presence of material verified but not quantified.

&lt;--Numeric result is less than the value shown.

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TYGARTS CREEK BASIN

03217000 TYGARTS CREEK NEAR GREENUP, KY

LOCATION.--Lat 38°33'51", long 82°57'08", Greenup County, Hydrologic Unit 05090103, on downstream side of center pier of bridge on State Highway 7, 100 ft downstream from Lick Run, 0.4 mi upstream from White Oak Creek, 6.5 mi west of Greenup, and at mile 28.1.

DRAINAGE AREA.--242 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1940 to current year.

REVISED RECORDS.--WSP 1113: 1942-43, 1945-46. WSP 1625: 1958. WSP 1725: Drainage area. WRD KY 79-1: 1948(P), 1950(M), 1952(M), 1962(M), 1967(P), 1970(M), 1972-76(M), 1978(M).

GAGE.--Water-stage recorder with telemetry. Datum of gage is 547.14 ft above NGVD of 1929.

REMARKS.--Records fair except for daily discharges below 10 ft<sup>3</sup>/s, and for those estimated, which are poor. Occasional diversion at low flow caused by withdrawal of water for cooling purposes by gas transmission plant above station.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Jan 9	0030	3,550	13.74	Apr 2	2300	*3,910	*14.58

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	55	97	2,640	e133	536	905	551	1,660	32	182	4.8	127
2	51	101	1,880	199	444	686	3,180	693	28	76	4.6	78
3	50	131	768	331	397	519	2,850	472	28	44	4.4	42
4	49	1,290	575	1,040	369	437	1,210	e340	166	23	4.2	24
5	47	1,840	445	2,670	324	730	718	e261	101	16	4.1	15
6	43	634	455	2,290	285	811	539	e208	63	14	4.2	11
7	36	439	1,100	1,620	259	595	435	e188	46	12	4.5	9.0
8	31	319	1,600	2,760	258	2,210	689	e170	32	10	4.3	7.7
9	29	240	734	2,220	280	1,470	633	e153	26	9.2	3.9	7.0
10	29	192	959	883	314	728	467	e132	22	8.2	6.1	6.3
11	25	168	1,040	620	338	572	387	e120	19	7.4	6.6	5.8
12	23	2,330	748	506	307	499	334	107	90	6.7	6.2	5.3
13	24	1,890	612	427	282	502	300	e93	110	6.3	6.7	4.7
14	27	680	463	1,030	440	514	263	87	64	6.4	6.7	4.6
15	30	490	360	878	1,030	537	228	109	60	6.5	7.2	4.2
16	33	388	301	580	664	491	197	100	80	7.6	6.1	4.0
17	42	320	265	e443	511	425	173	82	60	13	5.1	3.8
18	50	267	235	e375	403	374	159	68	35	13	4.8	3.8
19	1,070	446	210	e328	339	331	145	61	25	14	4.8	3.6
20	1,560	1,210	e218	e293	293	338	135	240	19	15	4.9	3.3
21	534	677	e196	e268	327	332	123	409	15	14	5.0	3.1
22	340	508	150	e246	433	290	151	211	13	11	5.0	3.1
23	239	410	523	e237	404	346	204	140	11	9.8	4.7	3.2
24	235	406	808	e230	354	447	264	109	10	9.0	4.4	3.4
25	236	976	e533	e227	325	388	371	87	9.5	8.2	9.5	3.2
26	197	847	e373	e303	290	360	292	75	8.8	7.4	e14	3.4
27	158	581	e274	e398	261	330	534	65	8.5	6.5	29	3.3
28	138	693	e201	e433	e323	1,020	509	54	7.9	6.0	18	3.2
29	123	691	e162	e488	---	3,110	349	46	7.7	5.5	38	3.5
30	110	573	e143	578	---	1,250	1,760	41	9.4	5.2	394	3.5
31	102	---	e134	652	---	711	---	36	---	4.9	226	---
TOTAL	5,716	19,834	19,105	23,686	10,790	22,258	18,150	6,617	1,206.8	577.8	851.8	403.0
MEAN	184	661	616	764	385	718	605	213	40.2	18.6	27.5	13.4
MAX	1,560	2,330	2,640	2,760	1,030	3,110	3,180	1,660	166	182	394	127
MIN	23	97	134	133	258	290	123	36	7.7	4.9	3.9	3.1
CFSM	0.76	2.73	2.55	3.16	1.59	2.97	2.50	0.88	0.17	0.08	0.11	0.06
IN.	0.88	3.05	2.94	3.64	1.66	3.42	2.79	1.02	0.19	0.09	0.13	0.06

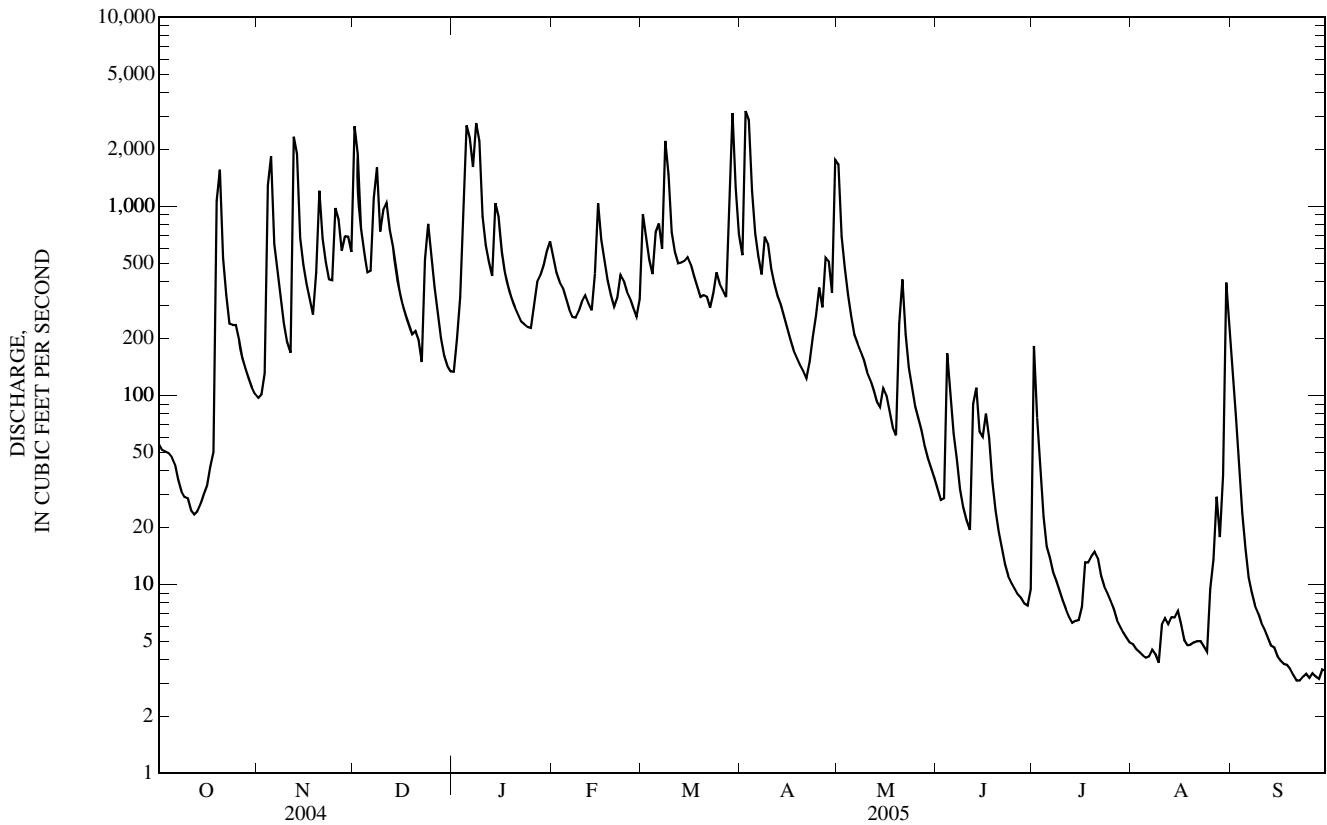
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	57.4	167	376	475	606	689	508	400	184	112	81.7	78.3
MAX	509	869	1,954	1,665	1,953	2,092	1,513	1,309	994	645	445	1,031
(WY)	(1976)	(1987)	(1979)	(1950)	(1989)	(1997)	(1972)	(1996)	(1961)	(1960)	(1979)	(1950)
MIN	0.35	0.70	3.23	31.1	20.7	80.8	90.9	27.6	4.16	3.91	2.09	1.21
(WY)	(1954)	(1954)	(1954)	(1977)	(1954)	(1941)	(1941)	(1941)	(1999)	(1999)	(1944)	(1998)

03217000 TYGARTS CREEK NEAR GREENUP, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	155,113		129,195.4		310	
ANNUAL MEAN	424		354		589	
HIGHEST ANNUAL MEAN					1979	
LOWEST ANNUAL MEAN					67.5	
HIGHEST DAILY MEAN	10,700	Sep 18	3,180	Apr 2	25,800	Mar 2, 1997
LOWEST DAILY MEAN	11	Aug 20	3.1	Sep 21	0.00	Aug 24, 1952
ANNUAL SEVEN-DAY MINIMUM	19	Aug 14	3.2	Sep 20	0.00	Sep 17, 1955
MAXIMUM PEAK FLOW			3,910	Apr 2	34,400	Mar 2, 1997
MAXIMUM PEAK STAGE			14.58	Apr 2	23.65	Mar 2, 1997
INSTANTANEOUS LOW FLOW					0.00	
ANNUAL RUNOFF (CF5M)	1.75		1.46		1.28	
ANNUAL RUNOFF (INCHES)	23.84		19.86		17.40	
10 PERCENT EXCEEDS	869		825		697	
50 PERCENT EXCEEDS	196		197		95	
90 PERCENT EXCEEDS	32		5.2		5.1	

e Estimated



## 03237255 KINNICONICK CREEK BELOW TRACE CREEK AT TANNERY, KY

LOCATION.--Lat 38°32'43", long 83°13'17", Lewis County, Hydrologic Unit 05090201, on bridge on Hwy 9, 0.10 mi downstream from Trace Creek, 0.20 mi west of Tannery, and 9.7 mi upstream from the mouth.

DRAINAGE AREA.--214 mi<sup>2</sup>.

PERIOD OF RECORD.--December 7, 2000 to current year.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 533.859 ft above NGVD of 1929.

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

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	20	64	3,170	e106	469	698	679	1,360	e17	369	e2.3	e45
2	e19	73	1,290	168	e383	e567	4,400	688	e15	96	e2.0	e29
3	18	276	696	e544	350	e426	2,570	442	e15	e37	e1.7	18
4	17	1,760	459	2,620	321	e356	1,050	e314	18	20	e1.5	10
5	16	1,190	335	3,920	282	617	641	238	23	13	e1.1	6.8
6	14	546	e313	e3,010	251	787	460	194	19	9.6	0.96	5.0
7	13	350	937	1,620	230	586	368	160	14	e7.5	0.98	3.9
8	11	224	1,200	3,020	235	1,340	526	133	12	6.3	0.89	3.2
9	e10	141	735	1,390	258	943	522	109	19	e5.3	0.81	2.6
10	e9.2	103	1,180	765	315	613	413	91	30	4.5	0.78	2.1
11	8.8	112	1,080	517	350	458	337	76	38	3.9	0.82	1.8
12	9.5	4,040	792	405	327	374	288	64	78	3.2	e0.68	1.3
13	9.8	1,380	e589	336	294	343	255	54	41	2.8	e0.65	1.2
14	e9.5	619	406	1,000	520	324	222	49	27	3.1	e0.42	1.1
15	e9.6	400	300	767	1,120	360	177	56	27	3.3	e0.30	e0.95
16	12	293	235	531	707	352	149	64	21	4.5	0.32	e0.76
17	14	e225	198	e354	488	315	129	47	16	6.9	0.41	0.64
18	21	e180	165	e243	366	273	118	37	13	15	0.39	0.56
19	1,820	359	143	e196	290	239	109	39	e10	e35	0.37	0.47
20	997	1,070	105	e173	246	269	99	391	e8.5	19	e0.40	0.51
21	420	685	85	e158	261	264	91	281	7.2	13	e0.52	0.46
22	230	e465	94	e149	260	241	118	138	e6.3	22	0.40	0.41
23	144	359	363	e143	229	463	168	91	e5.3	e39	e0.35	0.35
24	149	349	695	e142	220	765	685	70	4.5	20	e0.29	0.29
25	176	966	e398	e138	212	534	808	54	4.1	e12	0.25	0.28
26	133	784	e258	e203	188	434	535	43	3.4	e8.5	1.5	0.32
27	100	536	e176	e295	176	360	1,300	33	3.3	e6.5	3.6	0.32
28	86	652	e138	e233	232	1,640	756	29	2.8	e4.8	3.3	0.30
29	72	622	e115	e241	---	3,290	509	e25	2.5	e3.8	12	0.43
30	66	558	e102	490	---	1,010	2,000	e21	4.7	e3.1	36	e0.39
31	63	---	e100	571	---	e603	---	e19	---	e2.5	63	---
TOTAL	4,697.4	19,381	16,852	24,448	9,580	19,844	20,482	5,410	505.6	800.1	138.99	138.44
MEAN	152	646	544	789	342	640	683	175	16.9	25.8	4.48	4.61
MAX	1,820	4,040	3,170	3,920	1,120	3,290	4,400	1,360	78	369	63	45
MIN	8.8	64	85	106	176	239	91	19	2.5	2.5	0.25	0.28
CFSM	0.71	3.02	2.54	3.69	1.60	2.99	3.19	0.82	0.08	0.12	0.02	0.02
IN.	0.82	3.37	2.93	4.25	1.67	3.45	3.56	0.94	0.09	0.14	0.02	0.02

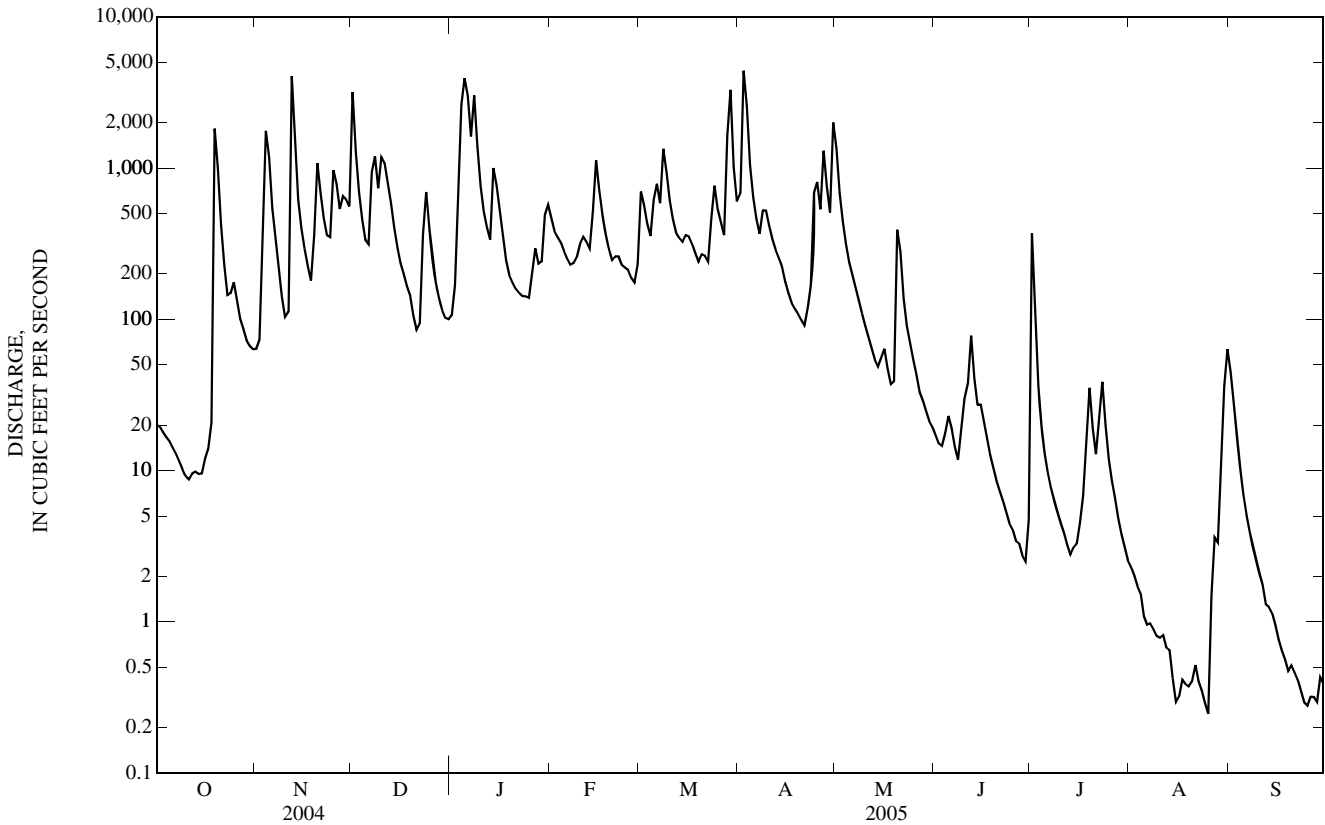
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	84.4	485	448	436	486	654	499	547	239	112	69.4	143
MAX	152	744	544	789	1,013	1,079	683	1,235	685	454	175	521
(WY)	(2005)	(2004)	(2005)	(2005)	(2003)	(2002)	(2005)	(2003)	(2003)	(2001)	(2001)	(2004)
MIN	13.3	25.1	265	138	192	389	102	175	16.9	20.2	3.98	4.61
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(2003)	(2001)	(2005)	(2005)	(2004)	(2002)	(2005)

03237255 KINNICONICK CREEK BELOW TRACE CREEK AT TANNERY, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
ANNUAL TOTAL	132,740.1		122,277.53		360	
ANNUAL MEAN	363		335		290	
HIGHEST ANNUAL MEAN					458	2003
LOWEST ANNUAL MEAN					290	2002
HIGHEST DAILY MEAN	7,390	Sep 17	4,400	Apr 2	13,600	Mar 20, 2002
LOWEST DAILY MEAN	6.6	Sep 7	0.25	Aug 25	0.00	Aug 16, 2002
ANNUAL SEVEN-DAY MINIMUM	7.9	Sep 1	0.32	Sep 22	0.19	Aug 15, 2002
MAXIMUM PEAK FLOW			7,200	Apr 2	16,300	Mar 20, 2002
MAXIMUM PEAK STAGE			12.74	Apr 2	20.28	Mar 20, 2002
ANNUAL RUNOFF (CFSM)	1.69		1.57		1.68	
ANNUAL RUNOFF (INCHES)	23.07		21.26		22.86	
10 PERCENT EXCEEDS	946		785		815	
50 PERCENT EXCEEDS	136		133		131	
90 PERCENT EXCEEDS	14		1.1		5.4	

e Estimated



## TWELVEMILE CREEK BASIN

03238745 TWELVEMILE CREEK AT HIGHWAY 1997 NEAR ALEXANDRIA, KY

LOCATION.--Lat 38°57'05", long 84°20'18", Campbell County, Hydrologic Unit 05090201, at bridge on Highway 1997, 1.0 miles upstream from Lick Branch, 2.5 miles east of Alexandria, and 2.8 miles upstream from the mouth.

DRAINAGE AREA.--39.0 mi<sup>2</sup>.

## WATER DISCHARGE RECORDS

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

REVISIONS.--WDR KY-01-1: Latitude.

GAGE.--Water-stage recorder with telemetry and crest-stage gage. Datum of gage is 505.854 ft above NGVD of 1929.

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

COOPERATION.--Northern Kentucky Sanitation District No. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.73	7.2	331	138	59	42	33	28	4.6	e5.6	0.96	28
2	0.82	122	51	73	59	e60	163	23	4.1	5.6	0.65	9.3
3	0.87	83	32	1,490	56	e48	86	21	3.8	4.4	0.63	4.9
4	0.85	135	24	444	54	e31	43	19	3.7	3.0	0.59	3.1
5	0.76	42	20	1,640	57	27	35	18	3.4	2.4	0.63	2.3
6	0.74	21	32	1,050	61	25	30	17	3.1	1.8	0.68	1.8
7	0.73	15	205	105	62	52	30	17	2.8	1.5	0.71	1.5
8	0.77	11	57	244	184	150	27	15	2.4	1.2	0.75	1.4
9	0.90	8.4	160	80	78	155	22	14	2.3	1.0	0.64	2.5
10	1.0	7.1	135	56	64	32	21	13	7.8	0.91	0.62	1.7
11	1.1	180	82	369	43	30	20	12	7.2	0.88	0.66	1.3
12	1.1	627	45	179	38	29	19	12	5.1	0.89	0.66	1.3
13	1.9	47	32	416	63	28	23	10	18	2.1	0.67	1.1
14	1.7	24	24	257	186	24	20	14	14	2.8	0.75	0.96
15	5.1	17	20	64	84	22	16	14	8.1	4.0	0.85	0.90
16	3.7	14	18	49	53	21	14	11	4.4	2.1	0.77	0.87
17	3.4	13	e16	38	40	20	13	8.6	3.2	5.3	0.74	0.86
18	378	12	e15	36	33	19	13	7.5	2.6	4.1	0.76	0.90
19	357	792	e14	33	30	23	13	8.8	2.3	4.9	1.2	0.83
20	31	81	e13	e31	30	33	12	25	2.1	2.6	0.88	2.8
21	14	35	12	e30	34	23	11	14	1.9	2.7	0.96	1.5
22	7.8	25	41	e28	29	21	78	8.4	1.8	2.5	0.91	1.0
23	13	21	143	e26	26	96	675	7.0	1.7	2.0	0.76	3.6
24	40	182	72	25	26	76	126	5.8	1.6	1.5	0.68	4.5
25	17	111	57	27	27	37	61	5.0	1.7	1.3	0.68	2.8
26	9.1	37	33	39	27	32	72	4.7	1.8	1.0	7.5	5.4
27	30	27	21	39	26	46	91	4.4	1.8	0.93	2.1	3.4
28	16	44	16	27	29	1,780	39	5.4	1.5	0.84	1.8	2.2
29	9.3	28	29	34	---	133	32	5.6	1.8	0.79	1.6	2.5
30	16	63	591	86	---	56	32	6.0	3.5	1.0	398	1.8
31	11	---	673	73	---	41	---	5.6	---	1.1	190	---
TOTAL	975.37	2,831.7	3,014	7,226	1,558	3,212	1,870	379.8	124.1	72.74	619.79	97.02
MEAN	31.5	94.4	97.2	233	55.6	104	62.3	12.3	4.14	2.35	20.0	3.23
MAX	378	792	673	1,640	186	1,780	675	28	18	5.6	398	28
MIN	0.73	7.1	12	25	26	19	11	4.4	1.5	0.79	0.59	0.83
CFSM	0.81	2.42	2.49	5.98	1.43	2.66	1.60	0.31	0.11	0.06	0.51	0.08
IN.	0.93	2.70	2.87	6.89	1.49	3.06	1.78	0.36	0.12	0.07	0.59	0.09

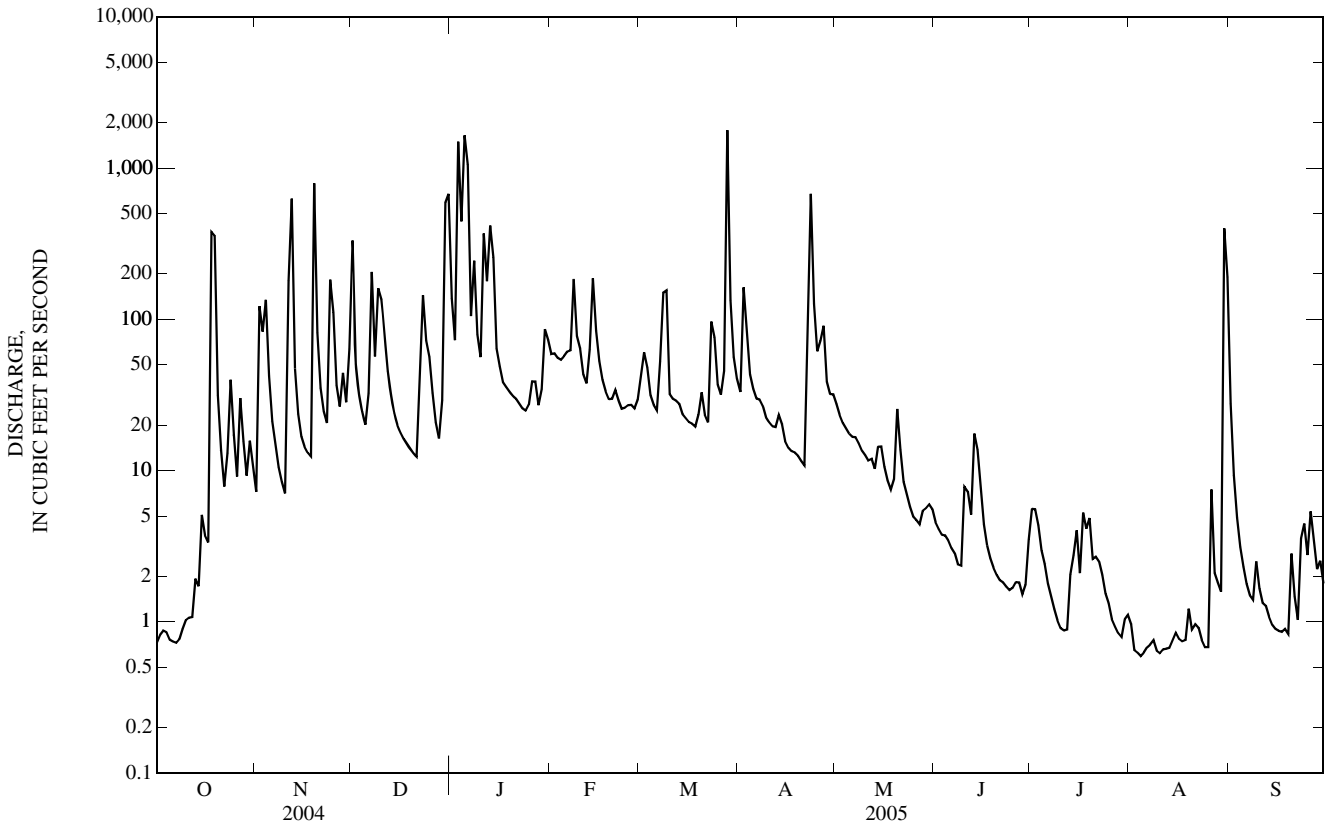
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	27.7	68.1	82.4	121	64.9	69.0	55.5	88.5	22.2	26.9	20.5	21.5
MAX	46.1	94.4	99.0	233	120	104	106	160	37.5	55.3	42.4	55.0
(WY)	(2002)	(2005)	(2002)	(2005)	(2003)	(2005)	(2002)	(2002)	(2001)	(2001)	(2001)	(2003)
MIN	7.22	34.0	47.4	34.2	30.0	34.1	11.2	12.3	4.14	2.35	1.40	3.23
(WY)	(2004)	(2003)	(2004)	(2002)	(2002)	(2001)	(2001)	(2005)	(2005)	(2005)	(2002)	(2005)

03238745 TWELVEMILE CREEK AT HIGHWAY 1997 NEAR ALEXANDRIA, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
ANNUAL TOTAL	22,560.37		21,980.52		58.5	
ANNUAL MEAN	61.6		60.2		60.7	
HIGHEST ANNUAL MEAN					53.6	
LOWEST ANNUAL MEAN					2003	
HIGHEST DAILY MEAN	2,450	Jan 4	1,780	Mar 28	2,450	Jan 4, 2004
LOWEST DAILY MEAN	0.72	Sep 28	0.59	Aug 4	0.59	Aug 4, 2005
ANNUAL SEVEN-DAY MINIMUM	0.78	Sep 28	0.66	Aug 4	0.66	Aug 4, 2005
MAXIMUM PEAK FLOW			4,700	Mar 28	6,920	May 10, 2003
MAXIMUM PEAK STAGE			7.86	Mar 28	9.18	May 10, 2003
ANNUAL RUNOFF (CFSM)	1.58		1.54		1.50	
ANNUAL RUNOFF (INCHES)	21.52		20.97		20.39	
10 PERCENT EXCEEDS	121		115		104	
50 PERCENT EXCEEDS	19		16		17	
90 PERCENT EXCEEDS	1.5		0.90		1.8	

e Estimated





## 03238745 TWELVEMILE CREEK AT HIGHWAY 1997 NEAR ALEXANDRIA, KY—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 2000 to current year.

COOPERATION.--Northern Kentucky Sanitation District No. 1.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 2000 to current year.

pH: December 2000 to current year.

WATER TEMPERATURES: December 2000 to current year.

DISSOLVED OXYGEN: December 2000 to current year.

TURBIDITY: December 2000 to current year.

INSTRUMENTATION.--Water-quality monitor with telemetry. New turbidity probe installed summer 2004, range 0-3000 FNU.

REMARKS.--

SPECIFIC CONDUCTANCE: Records rated excellent. Missing periods are Oct. 28, 2004, and Feb 3-4, and July 1, 2005.

pH: Records rated excellent. No missing periods.

WATER TEMPERATURES: Records rated excellent. Missing periods are Feb. 3-4, and July 1, 2005.

DISSOLVED OXYGEN: Records rated excellent. Missing periods are Oct. 27-28, 2004, Feb 3, 4, and July 1, 2005.

TURBIDITY: Records rated poor. Missing periods are Oct. 1-27, Nov. 5-8, 12-30, Dec. 1-8, 22-31, 2004, Jan. 1-19, Feb. 15-23, Apr. 12-20, June 16, and July 1, 2005.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2620 microsiemens, Dec. 11, 2002; minimum recorded, 91 microsiemens, Sept. 2, 2003.

pH: Maximum recorded, 9.1 units, May 13, 2001 and Jul. 18, 2002, Mar. 25-27, Apr. 18, 2004; minimum recorded, 6.6 units, Dec. 25-26, 2000.

WATER TEMPERATURES: Maximum recorded, 34.4°C, July 25, 2005; minimum recorded, 0.0°C, several days in Dec., Jan., Feb., and Mar. of each year of record.

DISSOLVED OXYGEN: Maximum recorded, 21.2 mg/L, Feb. 27, 28, 2002; minimum recorded, 0.3 mg/L, May 16, 2001.

TURBIDITY: Maximum recorded, 2600 FNU, Jul. 10, 31, 2004; minimum recorded, 0.0 FNU, Apr. 3, 10-14, 2004.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1270 microsiemens, Jan. 29, 2005; minimum recorded, 97 microsiemens, Jan. 5, 2005.

pH: Maximum recorded, 9.0 units, Oct. 7-8, 10-12, 2004, Feb. 27, Mar. 2, 6-7, 15-18, and May 2-5, 26-27, 29, 31, 2005; minimum recorded, 7.0 units, June 12, 2005.

WATER TEMPERATURES: Maximum recorded, 34.4°C, July 25, 2005; minimum recorded, 0.0°C, Dec. 16, 18-30, 2004, Jan. 17-31, and Feb. 2, 2005.

DISSOLVED OXYGEN: Maximum recorded, 20.0 mg/L, Mar. 3-4, 6, 15-18, 21, 2005; minimum recorded, 1.9 mg/L, June 6, 2005.

TURBIDITY: Maximum recorded, 2560 FNU, Mar. 28, 2005; minimum recorded, 6.4 FNU, June 6, 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	738	721	732	625	587	608	373	258	286	367	240	305
2	744	733	738	634	438	552	388	302	345	439	367	410
3	753	735	744	438	380	400	446	388	416	471	115	263
4	755	740	750	433	329	387	494	446	469	273	159	234
5	759	744	753	429	389	405	529	494	509	177	97	143
6	760	745	753	485	429	452	544	521	531	215	116	156
7	760	740	751	523	485	500	526	314	413	342	215	281
8	767	744	756	545	523	534	364	319	339	347	267	291
9	764	739	755	568	545	557	401	283	365	374	292	329
10	756	731	747	589	568	580	333	266	296	451	374	412
11	772	747	757	605	209	536	390	333	368	486	150	407
12	769	738	760	293	179	232	450	390	418	314	152	235
13	763	731	748	386	293	341	489	450	467	364	186	303
14	731	712	720	448	386	414	524	489	506	291	173	225
15	719	672	695	489	448	465	554	524	537	394	291	344
16	695	640	677	525	489	504	578	553	563	503	394	434
17	640	607	617	561	525	535	593	575	581	541	503	524
18	610	221	446	584	561	576	617	593	600	576	539	563
19	301	215	255	585	172	295	632	611	615	602	575	588
20	393	301	342	358	246	306	676	632	652	633	601	612
21	427	393	406	435	358	396	682	648	669	731	633	698
22	468	427	448	482	435	458	777	567	632	767	723	751
23	544	424	479	521	482	499	653	411	535	817	766	803
24	441	405	425	529	332	430	441	406	422	809	793	800
25	505	441	473	356	328	337	512	441	479	844	772	798
26	539	470	522	415	356	383	549	510	522	816	760	784
27	572	475	516	469	415	436	603	549	571	760	731	746
28	---	---	---	490	450	466	659	603	631	750	729	738
29	586	543	566	532	480	507	892	649	705	1,270	707	839
30	605	509	578	540	373	519	892	196	505	949	724	833
31	587	559	564	---	---	---	240	185	200	724	622	636
MONTH	772	215	616	634	172	454	892	185	489	1,270	97	500





## 03238745 TWELVEMILE CREEK AT HIGHWAY 1997 NEAR ALEXANDRIA, 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	20.6	13.8	16.5	15.5	13.7	14.6	8.8	6.8	8.2	6.3	5.0	5.7
2	18.1	14.8	16.7	16.7	15.2	15.7	7.2	5.5	6.2	7.7	6.0	6.7
3	19.0	11.9	14.6	15.5	13.4	14.3	6.3	4.1	5.2	10.0	7.7	9.0
4	19.2	11.4	14.1	13.5	12.2	13.1	5.8	2.7	4.1	9.9	8.7	9.5
5	17.9	10.5	13.0	12.8	10.0	11.4	5.9	3.0	4.4	8.7	7.3	8.2
6	17.7	9.4	12.3	12.6	8.5	10.3	7.3	5.1	6.4	7.3	5.8	6.6
7	17.9	9.6	12.6	13.3	9.0	10.9	11.0	7.3	9.5	5.8	5.1	5.4
8	17.3	10.9	13.6	10.8	8.1	9.5	10.7	8.6	9.8	5.6	5.3	5.4
9	18.8	13.1	15.4	9.2	5.9	7.7	8.6	7.9	8.2	6.7	5.3	5.8
10	19.4	12.7	14.9	9.9	5.5	7.8	9.4	8.4	9.0	6.4	5.4	5.9
11	17.6	11.0	13.4	9.6	7.4	8.3	9.1	7.6	8.6	9.9	6.3	7.5
12	15.1	10.8	12.8	10.3	8.8	9.7	7.6	6.7	7.1	11.0	9.9	10.4
13	14.2	13.2	13.7	9.3	6.9	8.1	6.9	3.9	5.6	11.9	10.2	11.1
14	16.8	13.6	14.6	8.4	5.2	6.6	3.9	2.4	3.4	10.2	5.8	8.0
15	14.2	11.3	12.7	8.1	4.4	6.2	3.1	0.8	1.8	5.8	4.2	4.9
16	12.0	9.8	11.1	8.8	6.3	7.5	2.3	0.0	1.2	4.2	1.4	2.9
17	13.0	7.6	9.7	9.7	8.2	8.9	3.1	0.4	1.6	1.4	0.0	0.4
18	11.6	8.4	9.5	12.1	9.6	10.7	3.4	0.0	1.6	0.2	0.0	0.0
19	13.1	11.4	12.4	12.6	11.1	12.0	2.6	0.0	1.3	0.3	0.0	0.0
20	14.1	13.1	13.5	13.1	12.3	12.7	0.1	0.0	0.0	0.4	0.0	0.2
21	14.5	13.7	14.1	12.3	11.5	11.9	0.4	0.0	0.0	0.9	0.0	0.1
22	14.1	12.7	13.4	11.7	11.1	11.4	1.1	0.0	0.2	0.7	0.0	0.1
23	14.8	11.8	13.0	11.8	10.7	11.3	0.0	0.0	0.0	0.1	0.0	0.0
24	16.5	13.3	14.5	12.4	11.5	11.9	0.0	0.0	0.0	0.1	0.0	0.0
25	16.1	11.6	13.7	11.9	8.2	10.4	0.0	0.0	0.0	0.3	0.0	0.0
26	15.1	11.1	13.2	8.4	7.0	7.7	0.0	0.0	0.0	0.1	0.0	0.0
27	14.7	13.9	14.2	8.5	7.1	7.8	0.0	0.0	0.0	0.3	0.0	0.0
28	17.3	13.8	16.2	8.2	6.3	7.4	0.0	0.0	0.0	0.0	0.0	0.0
29	18.3	15.6	16.8	7.0	5.9	6.4	0.1	0.0	0.0	0.1	0.0	0.0
30	19.3	16.5	17.7	8.3	6.5	7.1	2.7	0.0	0.4	0.3	0.0	0.1
31	16.5	13.9	15.2	---	---	---	5.0	2.7	3.9	0.9	0.0	0.3
MONTH	20.6	7.6	13.8	16.7	4.4	10.0	11.0	0.0	3.5	11.9	0.0	3.7
	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.4	0.3	1.0	4.0	2.2	3.2	12.5	10.4	11.4	14.6	9.3	11.8
2	1.0	0.0	0.4	4.4	0.8	2.2	10.4	7.2	8.7	13.2	10.3	11.6
3	---	---	---	5.6	0.1	2.3	11.4	6.3	8.5	15.6	8.8	11.9
4	---	---	---	4.9	0.8	2.5	14.0	7.4	10.3	17.1	9.0	12.5
5	4.1	1.0	2.5	4.5	2.5	3.3	17.4	9.9	13.1	19.2	9.7	13.9
6	3.9	1.9	3.0	8.9	2.1	5.0	17.8	11.8	14.5	20.3	11.3	15.4
7	4.7	3.3	3.8	8.9	5.2	6.8	17.1	14.3	15.6	20.8	12.4	16.3
8	6.6	4.7	5.7	7.2	3.8	5.7	19.9	13.6	16.1	23.3	14.8	18.6
9	6.7	5.8	6.4	4.7	2.1	3.4	20.8	12.7	16.2	24.0	16.0	19.8
10	5.8	3.1	4.6	4.2	1.3	2.7	22.3	13.6	17.3	24.8	18.1	21.2
11	3.6	2.0	2.6	3.5	2.4	2.8	22.7	16.0	18.8	25.2	18.0	21.6
12	5.3	0.9	2.8	5.3	2.1	3.4	18.7	15.9	17.0	22.8	18.8	20.3
13	4.4	2.6	3.4	4.9	2.5	3.6	16.5	13.5	15.3	24.4	16.1	20.2
14	6.6	4.4	5.8	8.1	1.4	4.2	19.5	11.4	14.8	22.4	18.7	20.3
15	8.6	5.4	6.8	9.0	2.3	5.1	20.3	11.5	15.3	19.9	16.4	18.0
16	8.0	6.0	7.1	7.8	4.2	5.7	21.0	11.5	15.7	17.7	14.9	16.3
17	7.0	3.9	5.4	10.8	4.1	6.8	21.1	12.0	16.2	20.2	12.7	16.6
18	6.0	2.9	4.0	11.8	4.2	7.4	22.7	13.8	17.9	21.6	14.3	18.2
19	5.2	1.0	2.9	7.5	6.3	6.9	22.2	15.1	18.4	20.1	16.9	18.1
20	5.0	3.1	3.7	9.4	5.9	7.1	23.5	15.2	19.1	19.2	16.8	17.7
21	6.4	5.0	5.6	10.9	4.7	7.2	19.9	16.0	17.3	22.7	15.2	18.6
22	6.9	5.0	5.7	8.0	5.0	6.5	18.8	14.5	16.3	19.1	15.2	17.3
23	7.3	4.6	5.7	6.7	6.0	6.4	14.5	9.9	11.8	21.0	15.9	18.7
24	5.3	3.3	4.4	8.6	5.4	6.6	9.9	8.6	9.1	19.4	16.3	18.0
25	4.9	1.5	3.3	8.2	6.4	7.3	13.6	7.7	10.3	20.2	15.3	17.8
26	6.5	2.7	4.3	9.4	7.1	8.1	12.2	10.9	11.5	22.2	15.4	19.0
27	6.9	2.7	4.6	8.2	7.3	7.7	12.6	10.1	11.2	24.1	17.8	20.7
28	5.4	4.0	4.7	8.1	7.3	7.7	12.6	9.2	11.0	22.3	18.1	20.2
29	---	---	---	10.8	6.5	8.6	11.9	10.9	11.4	23.4	16.7	20.2
30	---	---	---	13.8	7.9	10.7	12.8	11.2	11.8	21.1	17.0	18.1
31	---	---	---	16.4	12.0	13.5	---	---	---	23.4	16.2	19.5
MONTH	8.6	0.0	4.2	16.4	0.1	5.8	23.5	6.3	14.1	25.2	8.8	17.7



## 03238745 TWELVEMILE CREEK AT HIGHWAY 1997 NEAR ALEXANDRIA, 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	16.1	7.8	10.4	11.5	7.6	8.8	11.4	10.5	10.9	12.4	11.4	11.8
2	12.8	7.2	9.3	8.6	7.3	7.7	12.0	10.9	11.4	11.8	10.8	11.4
3	16.2	7.8	10.3	8.4	7.7	8.1	12.6	11.3	11.9	11.5	10.6	10.9
4	17.0	8.4	11.0	8.3	7.9	8.1	13.3	11.9	12.4	11.8	10.8	11.1
5	17.3	8.7	11.3	9.1	8.2	8.6	13.4	11.7	12.4	11.9	11.2	11.6
6	17.3	9.3	11.7	9.8	8.3	8.9	12.1	11.0	11.5	12.2	11.3	11.9
7	18.4	9.4	12.3	9.9	8.1	8.8	11.1	9.6	10.5	12.2	11.4	11.9
8	19.6	8.8	12.0	10.8	8.2	9.3	10.6	9.8	10.2	12.5	11.5	12.1
9	17.0	7.5	10.9	11.5	9.0	10.0	11.8	10.2	10.6	12.2	11.4	11.8
10	17.5	7.3	10.3	11.9	8.9	10.3	10.7	10.1	10.3	11.9	11.2	11.7
11	18.2	7.6	11.3	10.7	8.8	9.6	10.8	10.1	10.4	11.6	10.8	11.3
12	18.2	7.8	11.3	10.7	10.0	10.2	12.0	10.6	11.1	10.9	9.5	10.2
13	10.6	6.5	8.1	11.2	10.2	10.7	12.8	10.9	11.8	11.0	9.4	10.1
14	14.3	6.1	8.6	12.2	10.9	11.4	13.6	12.0	12.7	11.5	10.6	11.0
15	9.0	6.7	7.8	12.6	11.0	11.7	14.4	12.7	13.5	12.3	11.2	11.9
16	13.1	7.9	10.0	12.2	10.5	11.2	14.7	12.9	13.8	13.0	11.8	12.5
17	15.2	9.3	11.2	11.4	10.0	10.6	14.6	12.9	13.6	13.6	13.0	13.3
18	11.8	9.4	10.4	12.2	9.5	10.6	14.7	12.5	13.6	13.9	13.4	13.6
19	11.7	9.4	10.1	10.7	9.3	9.8	14.8	12.5	13.6	13.8	13.1	13.3
20	9.7	9.1	9.5	9.9	9.5	9.7	15.8	13.9	14.7	13.6	13.1	13.3
21	10.0	9.0	9.4	10.3	9.6	9.9	15.5	13.3	14.2	13.8	13.4	13.6
22	10.7	9.0	9.7	10.5	9.7	10.0	14.1	13.0	13.5	13.8	13.3	13.5
23	10.9	9.1	9.9	10.8	9.5	10.0	13.9	13.5	13.7	14.0	13.8	13.9
24	9.8	8.7	9.2	10.1	9.3	9.6	14.6	13.6	14.0	14.1	13.7	13.9
25	10.8	8.7	9.6	10.2	9.3	9.7	15.0	13.5	14.0	13.9	13.4	13.7
26	11.6	8.4	9.8	11.3	10.2	10.7	15.3	13.5	14.1	13.8	13.4	13.6
27	---	---	---	11.3	10.1	10.6	15.9	13.6	14.4	14.4	13.8	14.1
28	---	---	---	11.1	10.0	10.6	16.4	13.7	14.6	14.7	14.1	14.4
29	10.2	7.3	9.0	12.1	10.8	11.4	15.8	13.5	14.2	14.2	13.9	14.0
30	9.1	6.9	7.7	11.5	10.5	11.0	14.2	13.2	13.9	14.2	13.8	14.1
31	11.5	7.3	8.9	---	---	---	13.3	12.3	13.0	14.2	13.9	14.0
MONTH				12.6	7.3	9.9	16.4	9.6	12.7	14.7	9.4	12.6
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.2	13.6	13.9	18.2	12.8	15.0	13.2	9.9	11.1	12.7	7.9	10.1
2	14.4	13.9	14.1	19.8	13.6	16.2	12.5	10.4	11.7	13.3	7.7	10.1
3	13.9	---	---	20.0	14.2	16.6	13.4	11.1	12.4	14.0	7.8	10.5
4	---	---	---	20.0	13.6	16.4	14.1	9.9	12.0	14.1	7.5	10.4
5	14.0	13.1	13.6	19.3	13.2	15.3	14.4	8.6	11.3	13.9	6.6	10
6	13.9	12.9	13.4	20.0	12.0	15.6	15.8	7.9	11.1	13.1	6.3	9.2
7	13.4	12.6	13.0	18.4	11.2	13.9	15.0	7.8	10.2	12.3	5.6	8.5
8	12.9	11.8	12.4	12.7	11.4	12.1	16.5	7.8	11.1	11.1	4.9	7.6
9	12.1	11.7	11.9	15.0	12.4	13.6	16.5	7.2	11.0	9.8	4.6	6.8
10	13.0	11.9	12.5	16.6	12.7	14.2	16.0	6.5	10.4	9.2	4.5	6.4
11	13.9	12.9	13.4	17.6	13.4	14.9	14.7	6.0	9.3	9.0	4.5	6.4
12	14.1	12.9	13.5	18.5	13.3	15.2	10.6	5.8	7.5	9.1	4.5	6.4
13	13.7	12.6	13.1	19.1	13.2	15.5	12.3	6.7	8.8	9.9	4.7	7.1
14	12.7	11.7	12.2	19.9	13.0	15.9	14.7	7.3	10.2	7.9	4.6	6.1
15	12.2	11.3	11.8	20.0	12.2	15.7	14.7	7.1	10.1	9.4	5.8	7.4
16	12.6	11.2	11.8	20.0	12.2	15.5	14.2	6.8	9.8	10.1	6.2	7.9
17	13.6	11.7	12.6	20.0	11.7	15.3	13.4	6.1	9.2	11.1	6.0	8.5
18	14.5	12.6	13.3	20.0	11.0	15.0	12.3	5.7	8.5	11.3	5.3	8.1
19	15.5	13.1	14.1	15.8	10.9	12.7	11.5	5.7	8.1	9.3	5.0	6.8
20	14.6	12.7	13.5	18.4	11.4	13.7	11.9	5.7	8.3	8.0	6.1	6.8
21	14.9	12.3	13.1	20.0	11.2	14.7	10.0	6.0	7.7	10.9	5.8	7.8
22	16.1	12.4	13.6	19.4	11.1	14.2	11.1	7.1	8.4	11.0	5.7	8.0
23	18.0	12.4	14.3	12.3	11.1	11.9	10.0	8.4	9.4	11.3	5.6	8.1
24	18.0	12.6	14.7	13.9	11.2	12.4	10.6	9.9	10.2	12.6	5.3	8.2
25	19.2	13.4	15.5	14.6	10.8	12.0	11.2	9.0	10.4	13.2	5.3	8.9
26	19.1	13.2	15.6	15.9	10.5	12.4	10.5	8.9	9.3	14.8	4.9	9.4
27	19.7	12.6	15.4	14.3	10.4	11.8	10.0	8.8	9.2	15.1	3.1	8.3
28	17.5	12.4	14.1	13.4	11.2	12.3	11.8	8.6	9.9	14.0	4.4	8.2
29	---	---	---	12.8	11.3	12.1	10.7	8.1	9.1	15.0	4.9	8.9
30	---	---	---	12.6	10.1	11.5	12.0	8.0	9.3	11.2	4.8	6.9
31	---	---	---	12.3	9.8	10.8	---	---	---	15.6	5.1	9.4
MONTH				20.0	9.8	14.0	16.5	5.7	9.8	15.6	3.1	8.2



03238745 TWELVEMILE CREEK AT HIGHWAY 1997 NEAR ALEXANDRIA, 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	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	140	89	110	---	---	---	---	---	---
2	---	---	---	460	110	220	---	---	---	---	---	---
3	---	---	---	280	220	240	---	---	---	---	---	---
4	---	---	---	860	230	340	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	190	150	180	480	130	300	---	---	---
10	---	---	---	230	190	210	540	160	280	---	---	---
11	---	---	---	1,960	210	440	190	96	140	---	---	---
12	---	---	---	---	---	---	120	65	86	---	---	---
13	---	---	---	---	---	---	85	58	66	---	---	---
14	---	---	---	---	---	---	74	49	59	---	---	---
15	---	---	---	---	---	---	62	45	53	---	---	---
16	---	---	---	---	---	---	69	42	50	---	---	---
17	---	---	---	---	---	---	64	39	51	---	---	---
18	---	---	---	---	---	---	54	41	46	---	---	---
19	---	---	---	---	---	---	63	41	48	---	---	---
20	---	---	---	---	---	---	82	50	58	30	16	19
21	---	---	---	---	---	---	82	51	61	19	14	16
22	---	---	---	---	---	---	---	---	---	17	13	14
23	---	---	---	---	---	---	---	---	---	19	12	14
24	---	---	---	---	---	---	---	---	---	16	12	13
25	---	---	---	---	---	---	---	---	---	25	11	14
26	---	---	---	---	---	---	---	---	---	23	17	19
27	---	---	---	---	---	---	---	---	---	26	20	22
28	---	---	---	---	---	---	---	---	---	24	19	21
29	---	---	---	---	---	---	---	---	---	39	16	22
30	---	---	---	---	---	---	---	---	---	80	33	50
31	---	---	---	---	---	---	---	---	---	89	51	66
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	94	44	59	47	21	27	76	34	47	40	15	21
2	79	34	50	23	13	17	230	51	170	21	11	14
3	47	36	41	29	15	18	210	130	170	21	8.9	12
4	64	35	46	32	15	19	140	74	100	17	9.0	11
5	68	38	50	49	13	16	86	41	60	21	9.1	11
6	60	40	48	53	12	16	57	25	37	18	10	13
7	84	41	51	610	12	84	37	18	25	14	10	11
8	570	75	240	900	280	520	30	17	22	20	10	11
9	160	85	110	310	140	200	29	16	21	22	11	12
10	100	50	74	140	70	100	51	16	30	45	11	14
11	63	41	52	73	30	48	46	19	29	22	12	14
12	50	34	41	35	17	24	---	---	---	21	12	18
13	160	34	80	27	13	17	---	---	---	22	14	17
14	410	100	210	26	10	14	---	---	---	40	14	24
15	---	---	---	39	10	17	---	---	---	50	16	28
16	---	---	---	72	10	26	---	---	---	90	15	27
17	---	---	---	37	10	16	---	---	---	45	16	22
18	---	---	---	18	9.0	11	---	---	---	25	15	18
19	---	---	---	92	10	29	---	---	---	220	15	41
20	---	---	---	45	20	29	---	---	---	93	34	49
21	---	---	---	25	10	15	12	8.0	9.3	58	22	34
22	---	---	---	120	10	16	2,190	10	190	31	17	21
23	---	---	---	280	54	180	1,680	200	590	30	14	18
24	27	13	17	220	130	150	200	110	150	22	14	16
25	35	12	15	150	64	99	120	60	86	22	14	16
26	24	12	14	75	40	53	970	44	140	18	12	15
27	23	12	15	380	28	63	320	90	140	22	11	14
28	29	13	16	2,560	380	1,190	110	54	78	24	15	18
29	---	---	---	390	160	250	66	30	45	19	11	14
30	---	---	---	160	78	120	39	22	29	23	11	13
31	---	---	---	89	50	66	---	---	---	22	11	13
MONTH	570	12	65	2,560	9.0	110	2,190	8.0	100	220	8.9	19





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## FOURMILE CREEK BASIN

03238772 FOURMILE CREEK AT POPLAR RIDGE ROAD NEAR ALEXANDRIA, KY

LOCATION.--Lat 38°59'12", long 84°21'55", Campbell County, Hydrologic Unit 05090203, on right bank at bridge on Poplar Ridge Road, 2.5 miles north of Alexandria, 3.0 mi upstream from Tug Creek, and 6.7 mi upstream from the mouth.

DRAINAGE AREA.--3.1 mi<sup>2</sup>.

## WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder with telemetry and crest-stage gage. Datum of gage is 535.243 ft above NGVD of 1929. Gage operated from May 1999 to September 2000 downstream 2.0 mi at different datum. Old site station number is 03238780.

REMARKS.--Records fair except those below 3.0 ft<sup>3</sup>/s, which are poor.

COOPERATION.--Northern Kentucky Sanitation District No. 1.

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

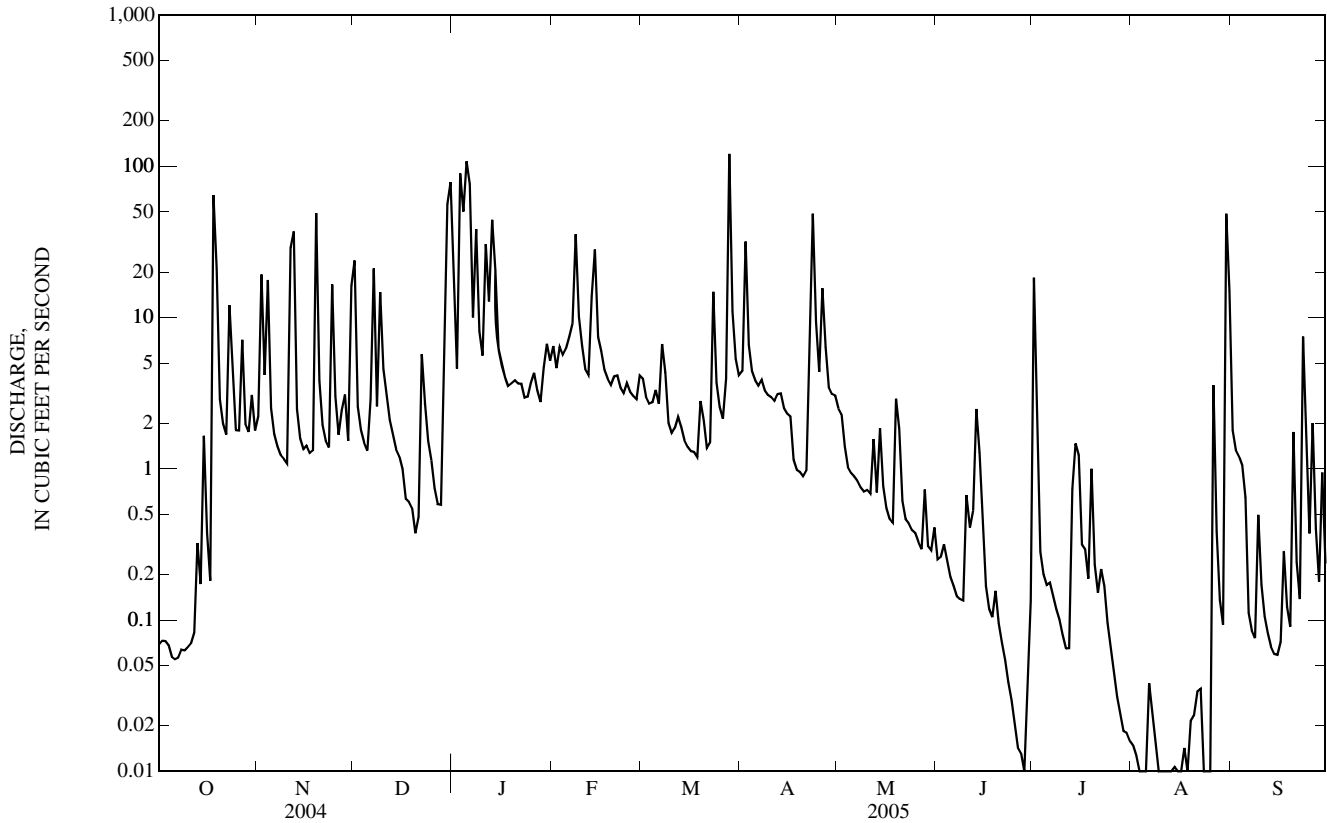
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.07	2.2	24	22	6.5	3.9	4.4	2.5	0.25	18	0.01	1.8
2	0.07	19	2.6	4.6	4.6	3.0	32	2.3	0.26	1.5	0.01	1.3
3	0.07	4.2	1.8	89	6.4	2.7	6.6	1.4	0.32	0.28	0.01	1.2
4	0.07	18	1.5	50	5.7	2.8	4.4	1.0	0.25	0.20	0.01	1.1
5	0.06	2.5	1.3	108	6.3	3.3	3.8	0.94	0.19	0.17	0.01	0.65
6	0.06	1.7	2.9	76	7.5	2.7	3.6	0.89	0.17	0.18	0.04	0.11
7	0.06	1.4	21	10	9.1	6.7	3.9	0.83	0.14	0.14	0.02	0.09
8	0.06	1.2	2.6	38	36	4.4	3.3	0.75	0.14	0.12	0.02	0.08
9	0.06	1.2	15	8.1	10	2.0	3.1	0.71	0.13	0.10	0.01	0.50
10	0.07	1.1	4.6	5.6	6.5	1.7	3.0	0.73	0.67	0.08	0.01	0.17
11	0.07	29	3.1	31	4.6	1.9	2.8	0.68	0.41	0.07	0.01	0.11
12	0.08	37	2.1	13	4.2	2.2	3.1	1.6	0.53	0.07	0.01	0.08
13	0.32	2.5	1.7	44	14	1.9	3.2	0.70	2.5	0.73	0.00	0.07
14	0.17	1.6	1.3	20	28	1.5	2.5	1.9	1.3	1.5	0.01	0.06
15	1.7	1.4	1.2	6.2	7.4	1.4	2.3	0.77	0.47	1.2	0.01	0.06
16	0.38	1.4	0.99	5.0	6.0	1.3	2.2	0.55	0.17	0.32	0.01	0.07
17	0.18	1.3	0.64	4.0	4.5	1.3	1.1	0.47	0.12	0.29	0.01	0.28
18	64	1.3	0.60	3.5	4.0	1.2	0.99	0.44	0.10	0.19	0.01	0.12
19	21	49	0.55	3.7	3.6	2.8	0.95	2.9	0.16	1.0	0.02	0.09
20	2.9	3.8	0.38	3.9	4.1	2.1	0.89	1.8	0.10	0.23	0.02	1.7
21	2.0	1.9	0.48	3.7	4.1	1.4	0.98	0.61	0.07	0.15	0.03	0.24
22	1.7	1.5	5.7	3.7	3.5	1.5	8.7	0.46	0.05	0.22	0.04	0.14
23	12	1.4	2.7	3.0	3.2	15	49	0.44	0.04	0.17	0.01	7.5
24	5.1	17	1.5	3.0	3.7	3.7	9.3	0.39	0.03	0.10	0.00	1.5
25	1.8	3.0	1.1	3.7	3.2	2.6	4.4	0.38	0.02	0.07	0.00	0.37
26	1.8	1.7	0.74	4.3	3.0	2.1	16	0.33	0.01	0.05	3.6	2.0
27	7.1	2.5	0.58	3.3	2.9	4.0	6.4	0.29	0.01	0.03	0.38	0.40
28	2.0	3.1	0.58	2.8	4.1	121	3.5	0.73	0.01	0.02	0.14	0.18
29	1.8	1.5	3.0	4.7	---	11	3.1	0.31	0.03	0.02	0.09	0.94
30	3.1	16	56	6.7	---	5.4	3.1	0.29	0.13	0.02	49	0.24
31	1.8	---	79	5.2	---	4.2	---	0.41	---	0.02	15	---
TOTAL	131.65	230.4	241.24	589.7	206.7	222.7	192.61	28.50	8.78	27.24	68.55	23.15
MEAN	4.25	7.68	7.78	19.0	7.38	7.18	6.42	0.92	0.29	0.88	2.21	0.77
MAX	64	49	79	108	36	121	49	2.9	2.5	18	49	7.5
MIN	0.06	1.1	0.38	2.8	2.9	1.2	0.89	0.29	0.01	0.02	0.00	0.06

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

MEAN	3.41	6.04	7.60	9.66	7.22	7.28	5.62	6.82	3.27	2.03	2.69	1.57
MAX	5.86	7.68	10.1	19.0	10.9	7.98	11.1	15.6	6.29	4.36	8.13	2.92
(WY)	(2002)	(2005)	(2003)	(2005)	(2003)	(2004)	(2002)	(2002)	(2002)	(2004)	(2001)	(2003)
MIN	0.52	3.62	5.00	3.57	2.58	6.72	1.17	0.92	0.29	0.88	0.05	0.45
(WY)	(2004)	(2003)	(2004)	(2002)	(2002)	(2002)	(2001)	(2005)	(2005)	(2005)	(2002)	(2004)

03238772 FOURMILE CREEK AT POPLAR RIDGE ROAD NEAR ALEXANDRIA, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
ANNUAL TOTAL	1,974.31		1,971.22			
ANNUAL MEAN	5.39		5.40		5.34	
HIGHEST ANNUAL MEAN					5.83	2002
LOWEST ANNUAL MEAN					4.79	2004
HIGHEST DAILY MEAN	144	Jan 4	121	Mar 28	170	Aug 12, 2001
LOWEST DAILY MEAN	0.01	Jul 21	0.00	Aug 13	0.00	Jun 26, 2001
ANNUAL SEVEN-DAY MINIMUM	0.05	Sep 22	0.01	Aug 9	0.00	Aug 8, 2002
MAXIMUM PEAK FLOW			456	Oct 18	520	Apr 21, 2002
MAXIMUM PEAK STAGE			6.61	Oct 18	7.18	Apr 21, 2002
10 PERCENT EXCEEDS	11		11		11	
50 PERCENT EXCEEDS	1.7		1.4		1.8	
90 PERCENT EXCEEDS	0.07		0.04		0.09	



## 03238772 FOUR MILE CREEK AT POPLAR RIDGE ROAD NEAR ALEXANDRIA, KY

## WATER-QUALITY RECORDS

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

COOPERATION.--Northern Kentucky Sanitation District No. 1.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 2001 to current year.

pH: April 2001 to current year.

WATER TEMPERATURES: April 2001 to current year.

DISSOLVED OXYGEN: April 2001 to current year.

TURBIDITY: April 2001 to current year.

INSTRUMENTATION.--Water-quality monitor with telemetry. New turbidity probe installed summer 2004, range 0-3000 FNU.

REMARKS.--

SPECIFIC CONDUCTANCE: Records rated excellent. No missing records.

pH: Records rated good. No missing records.

WATER TEMPERATURES: Records rated excellent. No missing record.

DISSOLVED OXYGEN: Records rated fair. Missing periods are Oct. 1-27, 2004, Apr. 11-20, May 20 to June 15, July 12-20, Aug 20-21, 28-29, 31, and Sept. 6-14, 2005.

TURBIDITY: Records rated good. Missing periods are Oct 1-14, Dec 28, 2004, Aug. 30-31, and Sept. 1-14, 23-30, 2005.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 3590 microsiemens, Jan. 29, 2005; minimum recorded, 82 microsiemens, Apr 21, 2002.

pH.--Maximum recorded, 8.5 units, Mar. 24, 30, Apr. 1-5, 2002, Mar. 14, 15, 2003 and Mar. 16-19, 21, 2004, Feb. 23, 25-27, Mar. 1-4, 6, and May 1-2, 2005; minimum recorded, 6.8 units, Jul. 18, 2004.

WATER TEMPERATURES: Maximum recorded, 26.9°C, July 5, 2002; minimum recorded, 0.0°C, several days in Dec., Jan., Feb., and Mar. of each year of record.

DISSOLVED OXYGEN: Maximum recorded, 18.0 mg/L, Feb. 24, 2002; minimum recorded 1.6 mg/L, July 27, 2005.

TURBIDITY: Maximum recorded, 2600 FNU, Jul. 30, 31, 2004, and Jan. 3, 2005; minimum recorded, <2.0 FNU, Jan. 21-23, and Dec. 9, 2003, and Aug. 5, 11-12, 16, 25-26, 2005.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 3590 microsiemens, Jan. 29, 2005; minimum recorded, 120 microsiemens, Jan. 3, 2005.

pH.--Maximum recorded, 8.5 units, Feb. 23, 25-27, Mar. 1-4, 6, and May 1-2, 2005; minimum recorded, 7.2 units, Oct 1-5, 17-18, 2004.

WATER TEMPERATURES: Maximum recorded, 26.5°C, July 25-26, 2005; minimum recorded, 0.0°C, Dec 22-24, 29-30, 2004, and Jan. 17-18, 23-25, 27, 28, 2005.

DISSOLVED OXYGEN: Maximum recorded, 15.2 mg/L, Feb. 25, 2005; minimum recorded 1.6 mg/L, July 27, 2005.

TURBIDITY: Maximum recorded, 2600 FNU, Jan. 3, 2005, minimum recorded, <2.0 FNU, Aug. 5, 11, 12, 16, 25-26, 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	911	876	887	641	574	597	365	192	304	562	351	466
2	928	903	915	733	381	549	371	234	267	677	561	630
3	933	912	922	587	438	527	277	267	274	728	120	385
4	936	912	921	647	324	472	320	277	297	475	168	348
5	935	920	927	610	516	574	347	312	334	272	122	207
6	972	935	961	639	607	628	366	314	335	405	131	254
7	1,020	949	990	647	635	642	450	155	329	543	402	484
8	1,000	974	986	641	621	633	569	450	522	574	170	333
9	998	985	992	628	619	624	726	270	509	532	430	490
10	1,000	984	992	635	622	630	560	354	491	553	531	543
11	1,000	986	996	777	151	602	598	560	584	592	260	383
12	1,060	998	1,010	477	152	340	614	578	596	497	310	429
13	1,060	940	963	588	477	539	633	614	623	626	161	406
14	1,020	962	984	611	587	600	640	628	634	462	223	376
15	1,120	683	827	618	599	606	656	637	642	533	462	506
16	708	665	693	628	602	615	696	653	668	632	530	562
17	757	704	722	633	618	625	762	693	740	836	608	693
18	973	124	524	635	620	628	780	760	769	608	561	580
19	506	238	410	694	152	375	802	758	770	566	548	556
20	585	506	541	542	425	499	870	790	831	1,260	558	688
21	582	542	560	592	542	571	916	821	879	1,050	750	914
22	572	564	567	610	592	603	1,120	729	821	1,350	863	1,090
23	715	328	538	624	610	615	865	761	813	1,160	930	1,080
24	561	349	494	675	321	482	835	764	803	930	771	818
25	581	557	571	554	457	522	805	773	793	1,080	708	785
26	605	569	581	585	554	571	860	804	839	1,200	878	995
27	591	508	540	618	561	595	918	848	889	946	724	842
28	600	564	588	562	487	521	987	918	957	735	651	681
29	610	596	604	583	543	565	3,320	924	1,600	3,590	625	1,380
30	663	601	626	624	212	543	2,680	320	935	2,700	1,570	1,790
31	663	581	607	---	---	---	351	272	292	1,570	923	1,090
MONTH	1,120	124	756	777	151	563	3,320	155	650	3,590	120	670





## 03238772 FOUR MILE CREEK AT POPLAR RIDGE ROAD NEAR ALEXANDRIA, 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	16.3	13.3	14.6	15.0	13.2	13.9	9.5	6.2	8.1	5.8	4.2	5.0
2	15.9	14.5	15.5	16.3	14.8	15.4	6.8	4.6	5.7	7.3	5.1	6.1
3	14.5	12.0	13.1	15.0	12.5	13.3	6.0	4.2	5.1	9.8	7.3	8.9
4	13.4	11.3	12.4	13.7	12.0	12.9	5.7	2.7	4.3	9.7	8.4	9.0
5	12.6	10.4	11.4	12.0	9.7	10.9	6.2	3.4	4.8	8.5	6.7	7.8
6	11.3	9.2	10.4	11.4	7.8	9.7	8.9	6.2	7.5	6.7	5.0	6.1
7	11.9	9.2	10.4	12.4	8.9	10.7	12.4	8.9	10.7	5.4	4.4	5.0
8	13.8	10.4	11.8	11.7	8.3	9.5	10.5	8.0	9.2	5.6	5.2	5.4
9	14.0	12.3	13.2	8.4	5.9	7.3	8.9	6.9	7.7	6.9	5.1	5.7
10	13.9	12.1	12.9	8.9	5.9	7.4	9.8	8.9	9.3	6.7	5.0	5.9
11	12.4	10.4	11.4	9.8	7.8	8.5	9.3	7.0	8.2	9.1	6.2	7.5
12	12.0	10.1	11.1	10.7	8.7	9.8	7.3	6.1	6.7	10.7	9.0	9.7
13	12.9	11.6	12.1	8.7	6.6	7.6	7.1	3.7	5.5	11.3	8.6	10.2
14	13.9	12.7	13.2	7.3	4.4	6.0	3.7	2.6	3.1	8.6	4.4	6.6
15	13.5	11.2	12.3	7.4	4.2	6.0	2.6	0.9	1.7	4.7	3.2	3.9
16	11.2	10.0	10.6	9.1	6.9	7.8	2.2	0.5	1.2	3.7	1.4	2.7
17	10.0	8.2	9.1	10.3	8.9	9.4	3.1	1.7	2.3	1.4	0.0	0.5
18	12.3	8.1	9.7	12.2	10.2	11.1	3.0	1.2	2.0	0.6	0.0	0.2
19	13.4	12.3	12.8	12.9	11.6	12.4	3.1	0.8	2.2	1.4	0.1	0.6
20	13.9	13.2	13.5	12.8	12.0	12.4	1.2	0.4	0.7	1.8	0.6	1.5
21	14.0	13.5	13.8	12.0	11.2	11.5	1.6	0.4	0.8	1.5	0.2	0.8
22	13.9	12.3	12.9	11.3	10.8	11.0	0.9	0.0	0.3	1.8	0.2	1.0
23	14.4	11.7	12.6	11.7	10.3	10.9	0.1	0.0	0.0	0.7	0.0	0.1
24	15.8	13.3	14.5	13.3	11.5	12.2	0.2	0.0	0.1	0.5	0.0	0.1
25	14.3	10.8	12.7	12.1	7.2	9.3	0.2	0.1	0.1	0.9	0.0	0.4
26	14.0	10.9	12.5	8.2	5.6	6.8	0.3	0.2	0.2	1.7	0.5	1.0
27	14.6	13.5	14.0	8.4	7.1	7.9	0.3	0.1	0.2	1.3	0.0	0.4
28	15.7	13.3	14.5	8.4	6.5	7.7	0.4	0.1	0.2	0.5	0.0	0.1
29	16.8	15.0	15.8	7.2	5.6	6.4	0.4	0.0	0.2	1.0	0.2	0.6
30	17.9	16.1	16.9	9.3	6.8	7.5	2.8	0.0	1.0	2.6	0.6	1.6
31	17.0	13.4	14.6	---	---	---	4.2	2.8	3.6	3.0	0.5	1.8
MONTH	17.9	8.1	12.8	16.3	4.2	9.8	12.4	0.0	3.6	11.3	0.0	3.7
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.6	1.9	2.8	4.0	2.3	3.0	11.8	8.1	9.4	13.0	8.4	10.6
2	2.7	0.7	1.7	3.9	0.5	2.1	8.8	6.9	7.7	12.2	9.2	10.5
3	4.7	1.9	2.8	3.9	0.3	2.1	13.1	5.6	8.7	11.9	8.0	9.9
4	4.8	0.7	2.4	4.8	0.7	2.6	15.0	6.7	10.4	12.7	8.6	10.6
5	5.6	1.1	2.9	4.9	2.9	3.9	16.9	8.7	12.4	15.2	9.4	11.8
6	5.4	1.7	3.3	8.4	2.4	5.2	16.3	9.9	13.1	16.2	11.0	13.3
7	4.9	3.1	4.0	9.0	6.0	7.5	15.7	12.0	13.7	17.3	11.9	14.4
8	7.1	4.8	5.9	7.3	3.2	4.8	17.1	11.4	14.1	19.7	14.1	16.5
9	6.5	4.9	6.0	3.9	0.9	2.5	17.5	9.6	13.4	20.5	15.4	17.7
10	4.9	2.2	3.6	3.3	1.0	2.2	18.6	10.8	14.6	21.3	17.1	18.9
11	3.6	1.0	2.1	3.0	2.1	2.5	19.4	13.3	16.3	22.3	17.1	19.4
12	6.1	1.0	3.3	4.8	1.8	3.3	18.2	14.1	14.9	20.5	17.2	18.3
13	5.5	3.0	4.1	4.1	2.5	3.4	14.6	13.0	13.7	20.7	14.9	17.4
14	7.2	5.5	6.5	6.1	1.5	3.6	16.8	9.6	12.9	18.9	17.5	18.1
15	9.6	4.4	6.6	7.1	2.5	4.7	17.2	10.2	13.7	17.5	14.8	15.6
16	7.6	5.5	6.9	6.7	4.3	5.5	17.7	10.6	14.1	15.0	13.5	14.1
17	5.7	3.3	4.4	8.9	4.0	6.1	17.7	11.6	14.7	16.4	11.6	13.6
18	5.3	2.2	3.4	9.7	4.2	6.8	19.7	13.6	16.3	18.3	12.8	14.9
19	4.7	0.5	2.6	7.8	6.3	6.8	19.6	14.8	17.1	16.6	14.8	15.6
20	5.5	3.3	4.0	8.0	5.2	6.4	20.5	15.0	17.5	16.9	15.6	16.2
21	7.3	5.5	6.5	8.6	3.9	6.1	18.6	14.9	16.4	18.5	14.5	16.1
22	6.6	5.0	5.8	7.0	4.7	5.9	16.2	13.8	14.7	16.8	14.2	15.5
23	6.5	4.3	5.4	6.5	5.4	6.0	13.9	9.2	11.3	17.6	14.6	15.9
24	5.4	3.3	4.0	9.0	4.6	6.5	9.6	7.5	8.5	17.0	15.1	15.7
25	4.6	0.9	2.8	8.4	6.2	7.4	14.6	7.6	10.5	16.4	14.2	15.1
26	6.3	2.6	4.3	9.0	7.2	8.1	13.0	10.4	11.2	17.4	13.9	15.3
27	6.6	2.2	4.4	8.5	6.8	7.5	12.1	8.4	10.3	18.1	15.2	16.4
28	5.9	4.0	4.8	8.5	7.2	7.9	12.3	8.4	10.4	17.9	15.5	16.7
29	---	---	---	13.2	5.6	8.9	11.6	10.6	11.1	18.0	15.2	16.3
30	---	---	---	15.1	7.7	11.0	12.2	10.9	11.5	17.4	15.2	15.6
31	---	---	---	15.4	10.7	12.5	---	---	---	18.5	14.7	16.0
MONTH	9.6	0.5	4.2	15.4	0.3	5.6	20.5	5.6	12.8	22.3	8.0	15.2





## 03238772 FOUR MILE CREEK AT POPLAR RIDGE ROAD NEAR ALEXANDRIA, KY—Continued

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

DAY	MAX	MIN	MEAN	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.9	5.8	6.3	9.8	8.9	9.2	11.5	10.4	10.9			
2	---	---	---	7.7	5.4	6.4	10.7	9.3	10.1	10.9	9.8	10.5			
3	---	---	---	7.6	6.8	7.2	11.0	9.6	10.3	10.5	9.2	9.7			
4	---	---	---	8.4	6.8	7.1	11.3	10.0	10.8	10.9	9.0	9.4			
5	---	---	---	8.0	6.9	7.5	11.6	10.0	10.7	10.9	9.9	10.3			
6	---	---	---	8.3	7.2	7.8	10.2	8.6	9.5	11.1	10.0	10.5			
7	---	---	---	8.0	7.0	7.5	9.7	8.5	9.2	11.0	10.4	10.7			
8	---	---	---	8.8	6.7	7.9	11.5	9.5	10.3	11.3	10.5	10.7			
9	---	---	---	9.6	8.2	8.9	11.4	9.8	10.3	10.8	10.2	10.5			
10	---	---	---	9.9	8.5	9.2	10.3	9.4	9.8	10.6	10.0	10.4			
11	---	---	---	10.6	7.6	8.5	11.2	9.4	10.2	10.3	9.1	9.7			
12	---	---	---	10.4	8.8	9.4	11.8	9.9	10.7	9.2	8.6	8.9			
13	---	---	---	10.2	9.0	9.7	12.2	9.9	10.9	9.9	8.5	8.9			
14	---	---	---	10.8	9.6	10.3	12.9	11.2	11.9	11.0	9.5	10.4			
15	---	---	---	11.0	9.8	10.4	13.6	11.8	12.6	11.8	11.0	11.4			
16	---	---	---	10.2	9.1	9.7	13.7	12.3	12.9	12.3	11.2	11.8			
17	---	---	---	9.3	8.6	8.9	12.7	11.4	12.0	13.4	12.3	13.0			
18	---	---	---	9.5	8.2	8.8	12.8	11.6	12.2	13.6	13.0	13.4			
19	---	---	---	9.6	7.6	8.2	12.8	10.7	11.7	13.1	12.1	12.7			
20	---	---	---	8.1	7.6	7.8	13.7	12.8	13.2	12.8	12.1	12.4			
21	---	---	---	8.3	7.6	7.9	13.4	12.3	12.9	13.4	12.6	12.9			
22	---	---	---	8.4	7.8	8.0	12.9	12.1	12.5	12.8	12.5	12.7			
23	---	---	---	9.8	7.9	8.6	13.2	12.2	12.6	13.9	12.8	13.4			
24	---	---	---	9.1	7.6	8.3	13.8	12.4	12.9	13.6	12.5	13.3			
25	---	---	---	9.4	7.6	8.7	14.1	12.3	13.0	13.4	12.2	12.9			
26	---	---	---	10.2	9.0	9.6	13.5	12.0	12.6	12.8	12.3	12.5			
27	---	---	---	9.8	8.8	9.2	14.1	12.2	13.0	14.1	12.4	13.3			
28	8.5	7.2	7.9	9.8	8.8	9.2	14.1	12.4	13.2	14.2	12.8	13.6			
29	7.2	6.6	6.8	10.4	9.3	9.8	14.5	12.0	12.7	13.2	12.4	12.7			
30	6.7	5.7	6.2	9.6	9.0	9.3	13.0	12.4	12.7	13.0	12.1	12.4			
31	7.4	5.3	6.3	---	---	---	12.8	11.4	12.3	13.4	11.7	12.6			
MONTH				11.0	5.4	8.5	14.5	8.5	11.6	14.2	8.5	11.6			
DAY	FEBRUARY			MARCH			APRIL			MAY					
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN			
1	13.0	11.6	12.0	14.8	9.9	12.0	11.1	7.6	9.3	12.9	8.0	10.1			
2	13.1	11.5	12.3	15.1	11.0	12.6	9.8	8.8	9.4	13.2	7.9	10.1			
3	13.0	11.3	11.8	15.1	10.8	12.6	11.7	8.4	10.2	13.5	8.4	10.5			
4	13.3	11.1	12.0	14.8	10.6	12.3	12.1	8.0	9.9	12.8	8.5	10.6			
5	13.2	10.9	11.9	13.8	10.0	11.4	12.1	7.7	9.5	11.4	8.3	9.8			
6	13.2	10.8	11.8	14.2	9.6	11.5	12.2	7.4	9.4	10.5	7.6	8.9			
7	12.2	10.5	11.2	11.9	8.2	9.5	11.2	7.4	8.8	9.8	7.3	8.3			
8	11.2	9.7	10.4	12.8	8.4	10.5	11.8	7.5	9.2	8.8	6.3	7.5			
9	11.0	9.7	10.1	14.1	10.2	11.9	11.5	7.8	9.4	8.3	5.7	6.8			
10	12.6	10.2	11.3	14.3	10.1	12.0	11.1	7.6	9.1	7.6	5.1	6.3			
11	13.4	11.0	12.1	13.1	10.0	11.5	---	---	---	7.2	4.8	5.9			
12	13.0	10.0	11.6	13.8	10.2	11.8	---	---	---	6.1	4.9	5.5			
13	11.7	9.9	10.5	14.2	9.5	11.6	---	---	---	7.5	4.9	6.0			
14	9.9	9.3	9.5	13.6	10.2	11.9	---	---	---	6.4	5.0	5.7			
15	11.3	8.5	10	13.1	9.5	11.3	---	---	---	7.2	5.1	5.9			
16	11.6	8.5	9.8	12.4	8.9	10.8	---	---	---	7.7	5.8	6.6			
17	12.9	9.5	11.0	11.7	9.3	10.7	---	---	---	8.7	6.3	7.4			
18	13.4	10.4	11.5	10.8	9.0	10.0	---	---	---	8.1	6.1	7.1			
19	14.2	10.2	12.0	10.0	8.2	9.0	---	---	---	7.5	5.4	6.3			
20	11.9	9.5	10.6	10.6	8.5	9.5	---	---	---	---	---	---			
21	12.0	9.0	10.0	11.0	8.9	10.0	9.0	6.7	7.6	---	---	---			
22	13.6	9.1	10.7	10.6	8.7	9.9	9.2	7.2	8.0	---	---	---			
23	14.4	9.4	11.3	10.0	8.9	9.2	9.8	8.2	9.2	---	---	---			
24	13.9	9.5	11.2	10.9	8.8	9.8	10.7	8.9	9.8	---	---	---			
25	15.2	10.3	12.3	10.3	8.1	9.0	11.3	8.0	9.6	---	---	---			
26	14.9	10.1	12.0	10.8	7.8	9.1	10.0	7.7	8.5	---	---	---			
27	14.6	9.9	11.8	10.0	7.8	8.6	11.0	8.5	9.5	---	---	---			
28	12.4	9.3	10.4	10.4	8.1	9.2	13.1	8.3	10.1	---	---	---			
29	---	---	---	9.8	7.8	8.9	11.0	8.0	9.1	---	---	---			
30	---	---	---	10.0	7.5	8.7	12.5	7.9	9.5	---	---	---			
31	---	---	---	10.3	7.5	8.6	---	---	---	---	---	---			
MONTH	15.2	8.5	11.2	15.1	7.5	10.5									

## FOUR MILE CREEK BASIN

03238772 FOUR MILE CREEK AT POPLAR RIDGE ROAD NEAR ALEXANDRIA, 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	---	---	---	7.4	4.1	6.2	4.4	2.9	3.4	6.2	5.5	5.9			
2	---	---	---	6.2	5.0	5.5	4.3	2.9	3.4	6.3	5.5	5.8			
3	---	---	---	5.7	4.4	4.8	4.5	2.9	3.6	6.8	5.6	6.1			
4	---	---	---	4.8	3.6	4.1	4.2	3.0	3.6	7.0	5.9	6.3			
5	---	---	---	4.2	3.6	3.9	3.4	2.1	2.8	6.4	6.0	6.2			
6	---	---	---	4.0	3.3	3.7	4.7	2.4	3.4	---	---	---			
7	---	---	---	3.9	3.4	3.6	4.7	3.2	3.8	---	---	---			
8	---	---	---	3.9	3.1	3.5	4.7	2.4	3.5	---	---	---			
9	---	---	---	3.9	3.3	3.6	4.8	2.7	3.6	---	---	---			
10	---	---	---	4.4	3.3	3.9	4.9	3.0	3.8	---	---	---			
11	---	---	---	3.9	3.1	3.5	4.1	3.0	3.5	---	---	---			
12	---	---	---	---	---	---	4.7	2.8	3.5	---	---	---			
13	---	---	---	---	---	---	4.5	2.9	3.6	---	---	---			
14	---	---	---	---	---	---	4.6	2.6	3.6	---	---	---			
15	---	---	---	---	---	---	4.1	2.4	3.2	4.9	4.3	4.6			
16	4.2	3.1	3.4	---	---	---	3.1	2.4	2.7	5.8	4.0	4.5			
17	3.8	3.1	3.5	---	---	---	5.0	2.7	3.7	5.2	4.6	4.8			
18	3.9	3.3	3.5	---	---	---	4.3	2.9	3.8	5.0	4.5	4.7			
19	5.1	3.5	4.0	---	---	---	4.2	2.8	3.4	5.3	4.0	4.5			
20	5.0	3.8	4.1	---	---	---	---	---	---	7.2	5.0	6.3			
21	4.5	3.7	4.0	4.3	3.0	3.5	---	---	---	6.0	4.3	4.9			
22	4.1	3.0	3.5	5.2	3.3	3.9	5.7	3.9	4.5	5.2	4.2	4.5			
23	3.9	3.2	3.5	4.8	3.4	3.8	5.4	3.4	4.3	6.9	3.3	4.5			
24	3.7	2.7	3.2	4.1	2.9	3.5	5.4	3.7	4.5	6.7	5.5	6.0			
25	3.2	2.2	2.8	3.8	2.6	3.1	6.0	4.2	4.9	5.8	5.1	5.4			
26	3.2	2.2	2.7	3.5	1.9	2.6	6.4	3.8	5.3	6.3	4.8	5.8			
27	3.4	2.1	2.8	2.7	1.6	2.0	5.3	3.7	4.4	6.3	5.3	5.7			
28	3.4	2.2	2.7	3.5	1.9	2.5	---	---	---	5.8	4.9	5.3			
29	4.1	2.2	3.0	4.1	2.3	2.9	---	---	---	6.9	5.4	6.2			
30	4.4	3.6	4.0	4.4	2.7	3.3	6.3	2.1	4.4	7.0	5.9	6.3			
31	---	---	---	4.4	2.7	3.3	---	---	---	---	---	---			

MONTH

YEAR

## 03238772 FOUR MILE CREEK AT POPLAR RIDGE ROAD NEAR ALEXANDRIA, 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	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	69	8.0	14	410	53	130	140	58	89
2	---	---	---	320	11	96	69	23	37	84	34	49
3	---	---	---	110	28	52	36	14	22	2,600	37	480
4	---	---	---	580	26	130	23	11	16	820	100	190
5	---	---	---	93	20	33	47	11	16	1,300	160	290
6	---	---	---	60	12	18	120	14	55	390	92	190
7	---	---	---	19	8.0	13	710	28	170	110	45	70
8	---	---	---	17	5.0	9.0	100	35	56	890	56	160
9	---	---	---	48	4.0	6.9	650	20	140	73	38	53
10	---	---	---	13	3.0	5.7	140	39	68	60	32	44
11	---	---	---	940	4.0	130	52	32	42	890	37	250
12	---	---	---	560	64	130	47	17	31	140	56	82
13	---	---	---	88	28	47	37	15	21	1,100	54	280
14	---	---	---	39	17	27	28	10	14	230	61	110
15	120	18	71	77	14	26	32	7.5	12	67	35	48
16	100	34	52	27	15	19	26	5.5	9.1	55	30	39
17	46	24	35	23	11	16	19	3.6	8.2	53	29	38
18	2,300	24	270	28	10	17	14	3.7	6.0	63	26	36
19	330	87	130	1,760	12	260	16	2.8	6.6	49	21	29
20	130	72	94	110	41	66	7.8	3.8	4.9	33	20	26
21	130	52	77	220	30	48	6.9	3.9	5.0	33	18	23
22	90	38	53	41	21	30	210	5.9	86	38	18	24
23	790	30	110	51	21	24	120	21	35	52	19	23
24	180	42	76	400	23	130	27	10	16	52	19	25
25	51	26	35	92	33	61	15	5.2	9.1	150	17	42
26	41	21	28	46	22	30	10	3.2	5.8	54	17	28
27	270	34	92	120	15	24	8.3	2.3	4.3	40	16	24
28	40	16	26	120	31	63	---	---	---	59	14	20
29	22	10	16	59	18	26	110	3.4	24	62	14	30
30	79	13	29	470	12	88	480	54	190	73	21	40
31	48	12	25	---	---	---	200	130	170	59	27	39
MONTH				1,760	3.0	55	710	2.3	47	2,600	14	93
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	120	20	50	86	18	41	140	62	92	33	15	23
2	85	21	41	43	14	22	290	140	230	28	10	19
3	89	19	41	43	11	20	160	48	93	22	9.0	15
4	69	23	43	38	11	19	77	30	52	17	6.0	11
5	80	20	43	58	13	25	60	29	41	30	9.0	16
6	180	24	66	40	8.0	18	50	21	34	23	9.0	14
7	220	28	75	540	10	94	51	24	36	25	11	16
8	1,600	100	330	500	33	140	45	22	32	28	12	18
9	150	42	90	48	14	23	39	22	29	30	15	21
10	120	30	56	27	8.0	14	44	24	32	45	18	23
11	66	20	31	17	5.0	10	44	20	29	33	17	25
12	50	16	31	19	6.0	11	43	20	29	120	20	71
13	540	25	140	19	5.0	11	42	14	27	71	23	41
14	830	87	240	21	4.0	8.0	40	13	21	100	24	58
15	120	44	72	18	4.0	11	34	12	20	74	36	52
16	120	48	71	22	5.0	12	30	11	18	45	32	38
17	88	22	42	18	4.0	8.0	54	13	19	58	23	34
18	41	23	32	15	5.0	7.6	46	11	16	42	25	30
19	48	20	29	200	6.0	47	37	13	19	500	26	99
20	85	17	33	120	19	58	34	14	20	530	66	210
21	68	27	42	34	7.0	14	74	11	18	82	36	56
22	71	21	35	210	5.0	12	2,400	14	180	60	34	44
23	42	19	29	480	100	210	1,500	150	350	49	30	38
24	51	24	29	120	29	59	160	67	100	57	26	37
25	41	19	27	49	21	31	93	32	58	60	25	35
26	46	12	21	48	18	28	1,000	32	170	49	24	33
27	48	15	23	180	21	51	220	41	95	130	21	29
28	75	13	31	2,600	180	810	65	22	39	79	23	48
29	---	---	---	230	130	170	41	16	27	140	26	43
30	---	---	---	170	100	140	42	15	26	57	24	31
31	---	---	---	140	74	110	---	---	---	110	29	47
MONTH	1,600	12	64	2,600	4.0	72	2,400	11	65	530	6.0	41



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## LICKING RIVER BASIN

## 03249500 LICKING RIVER AT FARMERS, KY

LOCATION.--Lat 38°06'55", long 83°32'36", Bath County, Hydrologic Unit 05100101, on left bank, 0.2 mi downstream from Hog Hollow, 0.8 mi downstream from Cave Run Dam, 1.9 mi south of Farmers, 4.5 mi upstream from Triplett Creek, and at mile 174.

DRAINAGE AREA.--827 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1915 to June 1920 (gage heights only), April 1928 to September 1931, December 1936 to February 1937 (in WSP 838), April 1938 to September 1994, October 2002 to current year. All figures of discharge above 2,000 ft<sup>3</sup>/s prior to April 1938 are unreliable and should not be used. Gage-height records collected at former site since 1915 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1275: 1928-31, 1937. WSP 1505: 1950(P). WSP 1705; 1952, drainage area.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 646.55 ft above sea level. See WRD-KY-90-1 for history of changes prior to Oct. 20, 1965.

REMARKS.--Records good. Discharge values published are days with mean values, 1100 ft<sup>3</sup>/s and below: Flow regulated by Cave Run Dam beginning December 1973 (station 03249498). High Flow only regulated prior to December 1973 (Cave Run Dam under construction). Diversion above station from Cave Run Lake for Fish Hatchery; return flow of which enters Licking River below 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	---	---	931	1,000	---	---	---	---	190	147	54	159
2	---	---	---	1,000	---	---	---	---	194	193	55	200
3	---	---	---	1,000	---	---	---	---	187	183	55	181
4	---	---	---	1,010	---	---	---	---	186	182	54	176
5	---	---	---	879	---	---	---	---	186	179	54	198
6	---	---	---	585	---	---	---	---	141	141	54	191
7	---	---	---	583	---	---	---	---	97	94	57	187
8	---	---	---	760	---	---	---	---	98	75	55	181
9	---	---	---	596	---	---	---	---	99	63	56	200
10	---	---	---	597	---	---	---	---	149	63	56	205
11	---	---	---	596	---	---	---	---	206	62	55	189
12	---	---	---	599	---	---	---	---	192	63	55	132
13	---	---	---	608	---	---	---	---	191	66	55	93
14	---	---	---	615	---	---	---	---	192	64	55	91
15	1,030	---	---	611	---	---	---	1,030	190	64	55	91
16	1,020	---	---	612	---	---	---	779	198	63	58	90
17	1,000	---	---	---	---	761	568	394	202	64	59	89
18	837	---	---	---	---	561	571	212	187	65	59	88
19	---	1,040	---	---	---	560	566	202	132	66	57	90
20	---	1,030	---	---	---	563	566	559	96	83	55	159
21	---	---	---	---	1,020	562	568	---	97	96	54	200
22	---	---	---	---	---	562	567	---	95	108	54	184
23	---	---	1,030	---	---	306	570	708	94	114	56	178
24	---	---	---	---	---	125	571	317	82	113	56	174
25	---	---	---	---	---	121	---	213	72	115	53	178
26	---	---	---	---	---	121	---	200	73	117	52	181
27	---	---	---	---	978	122	---	194	70	84	55	206
28	---	---	---	---	990	157	---	192	63	56	53	194
29	---	---	1,000	---	---	681	---	191	62	56	65	207
30	---	---	1,000	---	---	---	---	188	67	55	78	208
31	---	---	1,000	---	---	---	---	186	---	54	105	---
TOTAL	---	---	---	---	---	---	---	---	4,088	2,948	1,794	4,900
MEAN	---	---	---	---	---	---	---	---	136	95.1	57.9	163
MAX	---	---	---	---	---	---	---	---	206	193	105	208
MIN	---	---	---	---	---	---	---	---	62	54	52	88

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

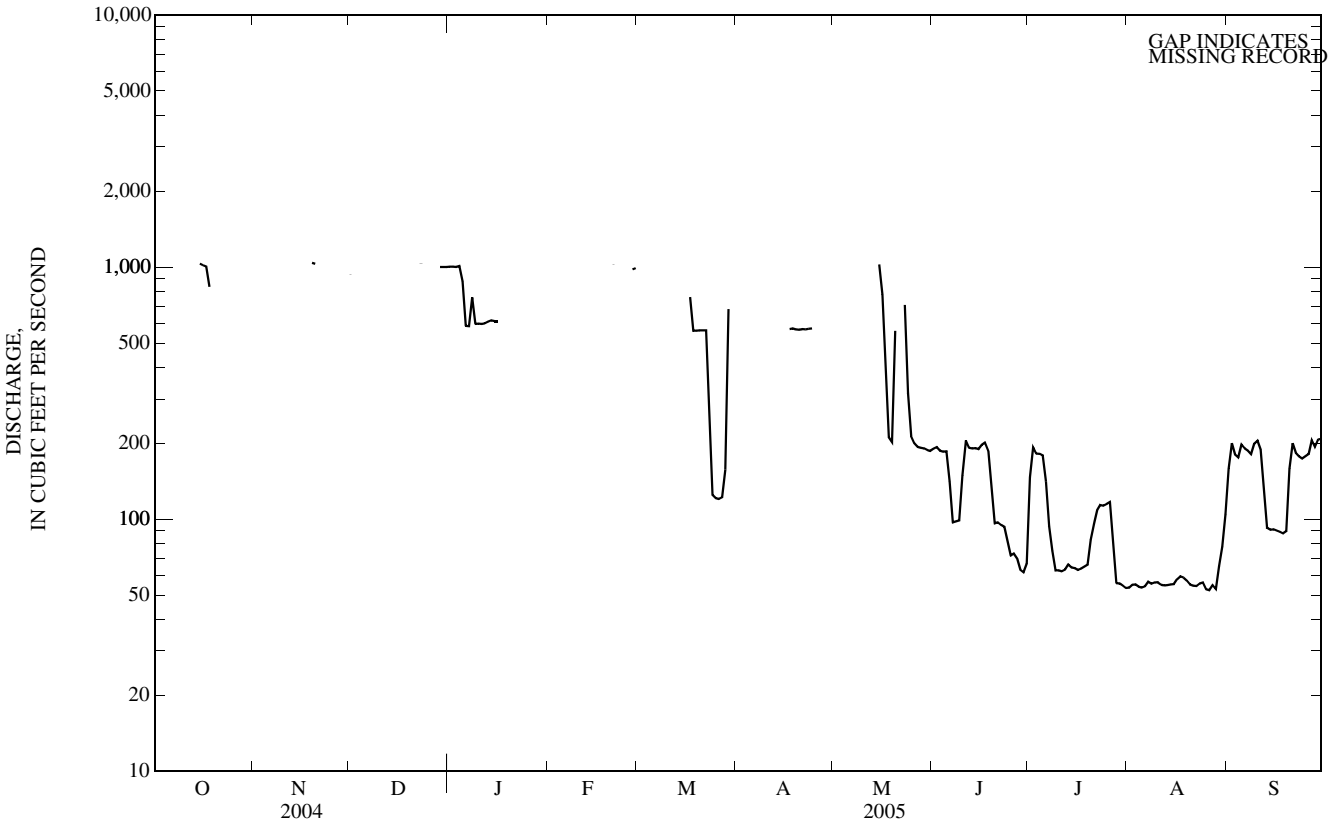
MEAN	525	807	1,429	1,652	1,875	2,089	1,617	1,106	778	321	290	399
MAX	2,336	1,988	3,096	3,692	3,717	3,670	4,061	3,350	2,521	1,620	836	2,360
(WY)	(1990)	(1990)	(1986)	(1991)	(1991)	(1989)	(1994)	(1984)	(1983)	(1981)	(1979)	(1974)
MIN	25.2	19.7	310	138	507	286	51.0	41.1	41.7	40.2	35.5	80.5
(WY)	(1979)	(1979)	(1982)	(1981)	(1984)	(1983)	(1986)	(1976)	(1988)	(1988)	(1988)	(2002)

03249500 LICKING RIVER AT FARMERS, KY—Continued

SUMMARY STATISTICS

WATER YEARS 1974 - 2005

ANNUAL MEAN	1,078	
HIGHEST ANNUAL MEAN	1,754	1994
LOWEST ANNUAL MEAN	496	1988
HIGHEST DAILY MEAN	7,820	Jan 15, 1974
LOWEST DAILY MEAN	6.1	Jul 21, 1983
ANNUAL SEVEN-DAY MINIMUM	14	Oct 4, 1978
MAXIMUM PEAK FLOW	24,000	Feb 28, 1962
MAXIMUM PEAK STAGE	31.10	Feb 9, 1918
INSTANTANEOUS LOW FLOW	0.70	Oct 14, 1930
10 PERCENT EXCEEDS	3,310	
50 PERCENT EXCEEDS	349	
90 PERCENT EXCEEDS	65	





## 03249505 LICKING RIVER AT HIGHWAY 60 AT FARMERS, KY

LOCATION.--Lat 38°08'24", long 83°33'26", Rowan County, Hydrologic Unit 05100101, on right bank on downstream side of bridge on U.S. Highway 60, 250 ft upstream from Chesapeake and Ohio Railway bridge, 0.75 mi west of Farmers, 1.1 mile upstream from Triplett Creek, and 3.45 miles downstream from Farmers base gage.

DRAINAGE AREA.--831 mi<sup>2</sup>

PERIOD OF RECORD.--Nonrecording gage July 2, 1938 to Sept. 30, 1944. Oct. 1, 1944 to Oct. 11, 1960, nonrecording gage 0.35 mi upstream and Oct. 12, 1960 to Oct. 20, 1965, nonrecording gage 0.65 mi upstream at datum 5.90 ft higher. Flows less than 5,000 ft<sup>3</sup>/s published Oct. 1, 2003 to current year.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 646.55 ft above NGVD of 1929.

REMARKS.--Records good.

COOPERATION.--Morehead Water Board.

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	3,640	1,860	3,480	1,170	3,680	1,600	2,420	1,600	257	185	49	213
2	3,620	1,650	1,650	1,170	3,580	2,300	3,690	2,430	262	280	48	285
3	3,600	1,420	2,590	1,170	3,550	2,510	2,360	3,500	253	264	52	260
4	3,570	2,970	3,140	1,240	3,520	2,490	2,460	3,750	249	263	53	251
5	3,550	3,150	3,080	2,150	3,470	2,330	3,550	3,700	247	260	52	275
6	3,530	3,250	2,530	1,270	3,430	1,960	3,640	3,660	195	217	51	262
7	3,510	3,120	2,130	949	3,400	1,660	3,190	3,630	117	126	54	253
8	3,480	3,040	2,710	3,180	3,420	3,690	3,420	3,600	121	97	54	249
9	3,460	3,000	2,680	1,240	3,110	1,980	3,670	3,570	124	69	55	273
10	3,440	2,960	2,380	722	2,180	2,640	3,620	3,540	185	71	55	283
11	3,420	2,940	3,410	725	1,630	2,580	3,350	3,520	287	76	53	264
12	3,050	2,840	3,340	726	1,620	2,560	2,580	3,110	264	77	50	192
13	2,130	1,400	3,440	733	1,620	2,570	2,580	2,410	261	89	53	123
14	1,480	2,330	3,630	827	1,710	2,540	2,580	1,830	262	81	54	124
15	1,210	2,510	3,570	738	2,020	2,100	2,130	1,220	262	73	53	124
16	1,210	2,480	3,520	739	2,120	1,430	1,290	976	269	74	59	120
17	1,210	2,090	3,480	1,280	2,050	951	705	531	283	73	61	119
18	1,060	1,390	3,460	2,070	1,830	699	712	277	260	78	61	120
19	---	1,210	3,420	2,910	1,620	702	710	264	192	73	62	123
20	2,360	1,240	3,390	3,350	1,460	708	712	637	124	98	55	213
21	2,030	1,420	2,860	3,630	1,220	708	719	1,610	125	125	55	292
22	3,150	1,850	1,590	3,620	1,630	712	721	1,830	124	142	53	267
23	3,080	2,040	1,200	3,640	2,080	442	729	916	119	153	57	254
24	3,120	2,050	1,620	3,560	2,050	166	729	417	104	152	58	252
25	3,090	2,370	2,290	3,560	2,040	159	1,170	284	82	153	53	252
26	3,040	2,180	2,490	3,570	1,700	156	1,730	262	87	154	54	259
27	2,620	1,840	2,460	3,570	1,160	163	1,880	251	82	114	69	288
28	2,090	1,690	1,950	3,500	1,180	751	1,750	252	71	53	57	277
29	2,080	1,650	1,170	3,630	---	2,800	1,740	252	69	52	94	293
30	2,070	1,560	1,170	4,120	---	1,840	2,990	251	85	49	104	291
31	2,060	---	1,170	3,850	---	2,690	---	251	---	50	149	---
TOTAL	---	65,500	81,000	68,609	64,080	50,587	63,527	54,331	5,422	3,821	1,887	6,851
MEAN	---	2,183	2,613	2,213	2,289	1,632	2,118	1,753	181	123	60.9	228
MAX	---	3,250	3,630	4,120	3,680	3,690	3,690	3,750	287	280	149	293
MIN	---	1,210	1,170	722	1,160	156	705	251	69	49	48	119

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

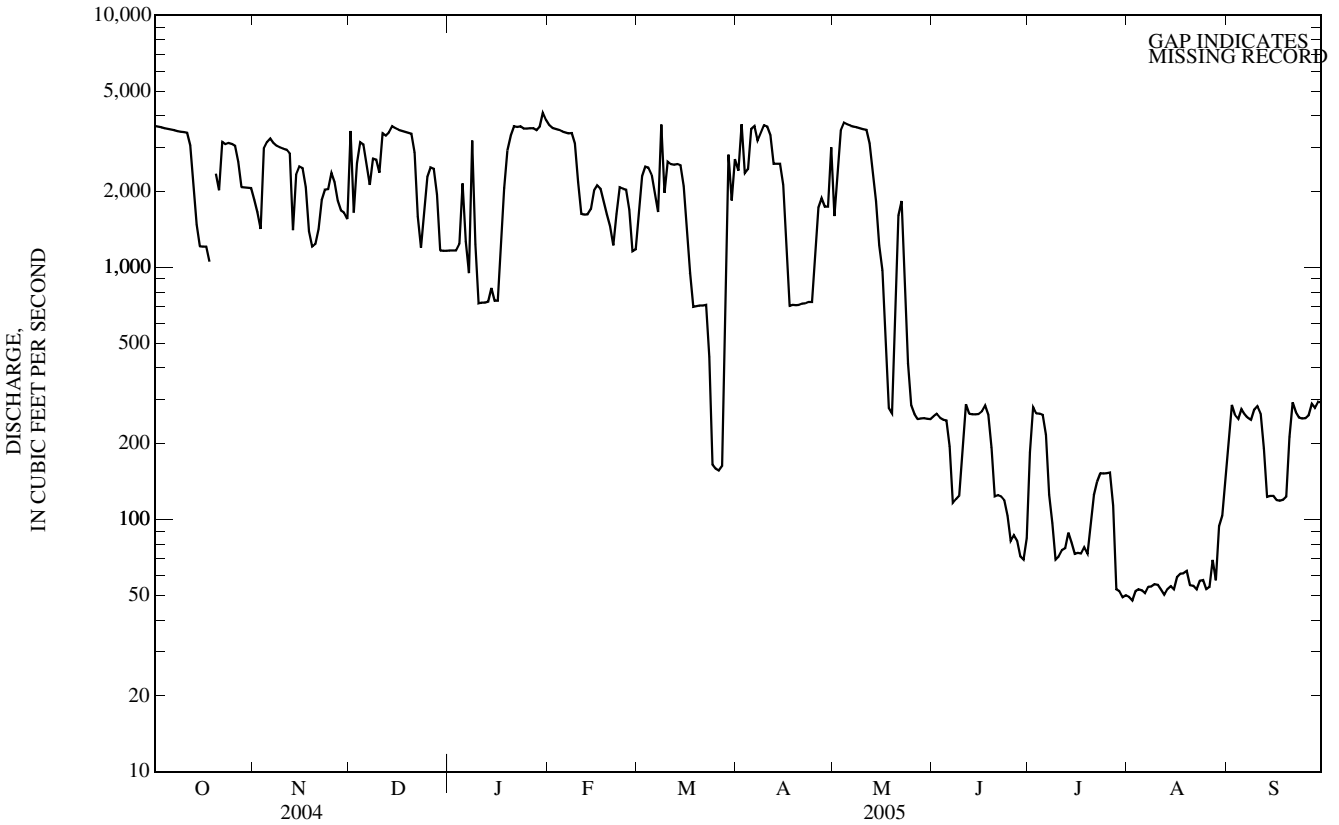
MEAN	244	2,183	2,669	2,213	2,289	1,632	2,052	1,753	181	624	267	228
MAX	244	2,183	2,726	2,213	2,289	1,632	2,118	1,753	181	1,125	474	228
(WY)	(2004)	(2005)	(2004)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2005)
MIN	244	2,183	2,613	2,213	2,289	1,632	1,987	1,753	181	123	60.9	228
(WY)	(2004)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2005)	(2005)	(2005)	(2005)	(2005)

03249505 LICKING RIVER AT HIGHWAY 60 AT FARMERS, KY—Continued

SUMMARY STATISTICS

WATER YEARS 2000 - 2005

HIGHEST DAILY MEAN	4,690	Feb 14, 2004
LOWEST DAILY MEAN	3.7	Jan 13, 2003
ANNUAL SEVEN-DAY MINIMUM	50	Jul 28, 2005
MAXIMUM PEAK STAGE	21.99	Sep 17, 2004



## 03250190 SLATE CREEK AT HIGHWAY 713 NEAR MOUNT STERLING, KY

LOCATION.--Lat 38°01'26", long 83°49'54", Montgomery County, Hydrologic Unit 05100101, on right downstream side of bridge on Highway 713, 0.2 mi below Greenbrier Creek, 1.0 mi above Town Branch, 6.4 mi east of Mount Sterling, and at mile 43.2.

DRAINAGE AREA.--84.5 mi<sup>2</sup>

PERIOD OF RECORD.--March 2000 to current year.

GAGE.--Water-stage recorder with telemetry and crest-stage gage. Datum of gage is 749.599 ft above NGVD of 1929.

REMARKS.--Records fair except for those estimated, which are poor. Discharge only published for discharges less than 1,000 ft<sup>3</sup>/s.

COOPERATION.--City of Mount Sterling.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	68	---	235	151	296	---	348	6.0	11	5.7	16
2	20	72	355	253	117	148	---	156	5.9	7.5	0.94	3.2
3	24	114	198	186	137	109	526	100	12	4.9	0.85	1.3
4	43	---	136	185	115	93	227	74	20	3.7	0.74	0.19
5	86	396	102	---	94	92	147	58	9.6	17	0.64	0.02
6	48	180	121	---	80	78	107	50	6.9	8.3	0.60	0.79
7	7.9	119	---	---	72	119	90	42	5.8	5.2	0.41	0.99
8	10	84	332	---	122	---	112	36	9.0	7.6	3.8	1.0
9	19	65	266	399	128	273	82	31	11	12	8.8	0.90
10	27	54	353	221	157	163	64	29	7.0	12	9.1	1.0
11	30	48	217	161	113	131	53	24	7.5	7.3	11	1.2
12	34	455	178	136	94	138	48	20	6.3	1.9	7.0	1.1
13	43	215	130	176	102	141	85	17	6.3	9.6	0.92	1.0
14	e60	116	91	---	481	103	119	17	6.1	30	1.2	1.0
15	e47	84	73	220	307	84	65	19	6.4	45	4.6	1.0
16	48	70	64	149	185	72	49	14	5.1	16	13	1.2
17	44	61	58	105	134	63	41	11	4.5	13	13	1.3
18	54	55	51	e84	97	55	36	10	4.4	32	13	1.3
19	---	164	48	71	80	50	32	11	3.6	75	8.4	1.2
20	328	175	37	67	74	61	29	286	4.8	56	1.4	1.1
21	137	106	39	69	---	50	25	63	12	31	0.61	2.3
22	86	83	45	110	---	44	24	33	12	14	0.09	7.2
23	67	74	403	121	180	123	46	25	9.3	7.1	4.1	7.5
24	124	162	172	89	136	101	75	18	2.2	4.8	9.7	7.8
25	93	---	95	76	108	71	50	14	1.8	4.0	9.4	7.9
26	67	198	77	92	85	61	45	11	1.6	3.9	6.7	8.0
27	219	138	59	77	75	60	288	10	5.1	3.6	1.1	7.8
28	221	379	50	56	261	---	85	8.9	12	4.6	11	7.7
29	129	186	54	---	---	---	136	7.9	13	9.2	66	7.7
30	101	---	59	494	---	211	---	7.3	14	8.9	80	7.6
31	80	---	56	225	---	168	---	6.7	---	9.0	42	---
TOTAL	---	---	---	---	---	---	---	1,557.8	231.2	475.1	335.80	108.29
MEAN	---	---	---	---	---	---	---	50.3	7.71	15.3	10.8	3.61
MAX	---	---	---	---	---	---	---	348	20	75	80	16
MIN	---	---	---	---	---	---	---	6.7	1.6	1.9	0.09	0.02

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

MEAN	70.8	89.3	131	96.2	286	239	135	155	77.9	55.5	48.4	24.0
MAX	189	229	223	131	619	512	169	343	295	215	123	78.2
(WY)	(2003)	(2003)	(2003)	(2002)	(2003)	(2002)	(2000)	(2003)	(2003)	(2001)	(2003)	(2003)
MIN	4.26	8.88	74.5	65.1	43.5	135	50.7	3.11	7.71	5.45	10.8	3.61
(WY)	(2001)	(2001)	(2001)	(2001)	(2002)	(2000)	(2001)	(2000)	(2005)	(2002)	(2005)	(2005)

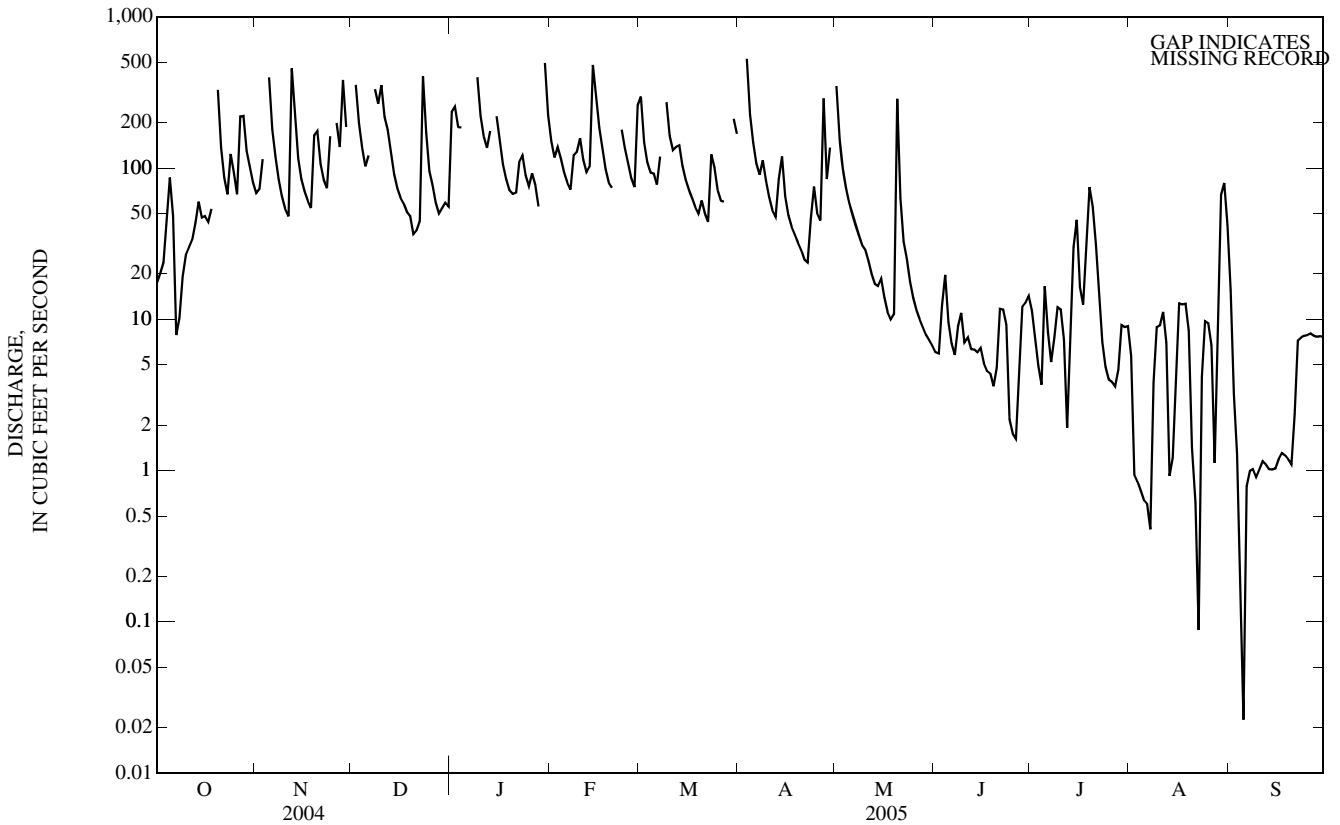
03250190 SLATE CREEK AT HIGHWAY 713 NEAR MOUNT STERLING, KY—Continued

SUMMARY STATISTICS

WATER YEARS 2000 - 2005

ANNUAL MEAN	134	
HIGHEST ANNUAL MEAN	207	2003
LOWEST ANNUAL MEAN	81.4	2001
HIGHEST DAILY MEAN	6,610	Mar 20, 2002
LOWEST DAILY MEAN	0.00	Sep 22, 2000
ANNUAL SEVEN-DAY MINIMUM	0.25	Sep 5, 2000
MAXIMUM PEAK FLOW	0.00	Mar 20, 2002
MAXIMUM PEAK STAGE	22.83	Nov 13, 2003
10 PERCENT EXCEEDS	315	
50 PERCENT EXCEEDS	37	
90 PERCENT EXCEEDS	2.2	

e Estimated



## 03250310 ROCK LICK CREEK ABOVE UNNAMED TRIBUTARY NEAR SHARKEY, KY

LOCATION.--Lat 38°15'04", long 83°33'58", Fleming County, Hydrologic Unit 05100101, on right bank, 1.1 miles above Drip Springs, 1.3 miles north of Sharkey, and 2.7 mi above mouth.

DRAINAGE AREA.--1.66 mi<sup>2</sup>

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

GAGE.--Water-stage recorder with telemetry. Datum of gage is 694.94 ft above NGVD of 1929. Gage moved 50 ft downstream August 8, 2002.

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

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	0.12	0.39	20	5.8	2.5	3.9	19	5.2	0.09	0.04	0.01	0.20
2	0.14	0.44	4.6	4.1	2.0	2.2	22	2.6	0.10	0.02	0.01	0.11
3	0.13	1.1	2.7	8.8	2.6	1.7	8.1	1.8	0.11	0.02	0.00	0.06
4	0.12	20	1.9	12	2.0	1.5	3.9	1.3	0.11	0.02	0.00	0.04
5	0.13	3.7	1.5	17	1.6	1.9	2.6	1.1	0.08	0.02	0.00	0.03
6	0.12	2.0	3.6	16	1.4	1.8	2.0	0.94	0.07	0.02	0.00	0.02
7	0.12	1.4	17	10	1.3	14	1.7	0.79	0.06	0.02	0.00	0.01
8	0.11	1.1	4.7	25	3.0	17	1.9	0.67	0.05	0.02	0.00	0.01
9	0.12	0.85	8.9	5.6	3.6	4.5	1.5	0.54	0.05	0.01	0.00	0.01
10	0.12	0.72	7.3	3.3	4.0	2.8	1.2	0.45	0.04	0.01	0.00	0.01
11	0.08	0.72	4.8	2.5	2.3	2.3	1.1	0.37	0.04	0.01	0.00	0.02
12	0.10	17	3.4	2.0	1.9	2.8	0.98	0.30	0.04	0.01	0.00	0.01
13	0.20	3.5	2.3	6.2	4.1	2.7	3.4	0.26	0.03	0.08	0.01	0.01
14	0.16	2.0	1.7	9.0	9.2	2.8	2.6	0.31	0.03	1.1	0.00	0.01
15	0.15	1.5	1.4	3.2	4.7	2.7	1.6	0.36	0.03	1.5	0.01	0.01
16	0.16	1.2	1.2	2.2	3.0	2.0	1.2	0.25	0.03	0.45	0.01	0.01
17	0.16	1.0	1.1	1.6	2.2	1.6	1.1	0.20	0.03	0.19	0.02	0.00
18	0.21	0.96	0.98	1.4	1.7	1.3	0.97	0.17	0.02	0.13	0.02	0.00
19	38	15	0.85	1.2	1.4	1.3	0.88	1.7	0.02	0.09	0.02	0.00
20	3.8	4.9	0.79	1.1	3.6	2.1	0.77	5.5	0.02	0.07	0.04	0.00
21	1.7	2.6	0.72	1.1	5.7	1.6	0.76	1.1	0.01	0.06	0.06	0.00
22	1.2	1.9	0.85	2.0	3.6	1.3	0.78	0.63	0.78	0.04	0.03	0.01
23	0.96	1.5	9.5	e1.5	2.3	5.2	1.7	0.43	0.05	0.03	0.03	0.01
24	1.4	5.5	2.8	e0.66	2.0	3.1	2.4	0.30	0.06	0.02	0.02	0.01
25	0.98	8.8	1.8	1.8	1.7	2.4	1.7	0.23	0.03	0.02	0.02	0.01
26	0.66	3.0	1.4	3.6	1.5	2.1	2.4	0.20	0.02	0.02	0.02	0.01
27	0.62	2.9	1.1	2.0	1.3	3.5	4.1	0.17	0.01	0.01	0.03	0.01
28	0.58	5.8	0.98	1.4	4.4	30	1.7	0.15	0.05	0.02	0.02	0.01
29	0.51	2.5	1.0	6.9	---	9.4	6.1	0.13	0.13	0.02	0.08	0.01
30	0.46	14	1.2	6.4	---	4.2	24	0.11	0.03	0.01	0.10	0.01
31	0.43	---	1.1	3.5	---	3.4	---	0.10	---	0.01	0.35	---
TOTAL	53.75	127.98	113.17	168.86	80.6	139.1	124.14	28.36	2.22	4.09	0.91	0.66
MEAN	1.73	4.27	3.65	5.45	2.88	4.49	4.14	0.91	0.07	0.13	0.03	0.02
MAX	38	20	20	25	9.2	30	24	5.5	0.78	1.5	0.35	0.20
MIN	0.08	0.39	0.72	0.66	1.3	1.3	0.76	0.10	0.01	0.01	0.00	0.00
CFSM	1.04	2.57	2.20	3.28	1.73	2.70	2.49	0.55	0.04	0.08	0.02	0.01
IN.	1.20	2.87	2.54	3.78	1.81	3.12	2.78	0.64	0.05	0.09	0.02	0.01

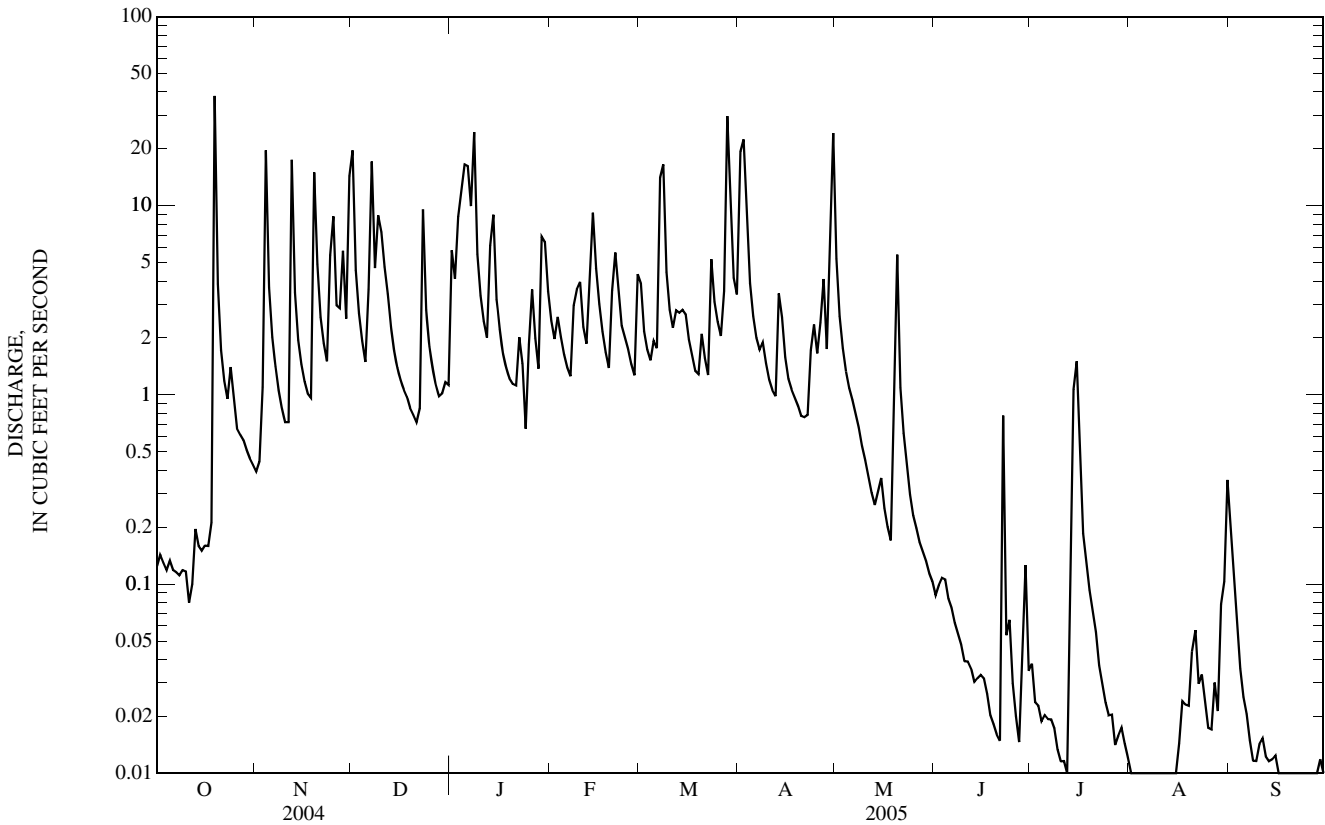
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)

	0.39	1.59	1.89	2.57	4.12	3.56	2.37	2.30	1.57	1.48	0.59	0.73
MEAN												
MAX	1.73	5.49	3.90	5.45	11.4	8.93	4.14	9.09	4.94	10.4	1.57	4.20
(WY)	(2005)	(2004)	(2004)	(2005)	(2000)	(1997)	(2005)	(2003)	(2003)	(2001)	(2004)	(2004)
MIN	0.01	0.04	0.31	0.29	0.42	2.07	0.49	0.14	0.05	0.00	0.01	0.00
(WY)	(1998)	(1999)	(1998)	(2000)	(2002)	(1998)	(1999)	(1999)	(2000)	(1999)	(1999)	(1999)

03250310 ROCK LICK CREEK ABOVE UNNAMED TRIBUTARY NEAR SHARKEY, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1996 - 2005	
ANNUAL TOTAL	1,043.71		843.84		1.91	
ANNUAL MEAN	2.85		2.31		3.23	
HIGHEST ANNUAL MEAN					0.65	2003
LOWEST ANNUAL MEAN					0.65	1999
HIGHEST DAILY MEAN	69	Sep 17	38	Oct 19	227	Jul 9, 2001
LOWEST DAILY MEAN	0.05	Jul 5	0.00	Aug 3	0.00	Sep 15, 1997
ANNUAL SEVEN-DAY MINIMUM	0.06	Jun 29	0.00	Aug 3	0.00	Sep 15, 1997
MAXIMUM PEAK FLOW			184	Oct 19	916	Jul 8, 2001
MAXIMUM PEAK STAGE			2.62	Oct 19	6.51	Jul 8, 2001
ANNUAL RUNOFF (CFSM)	1.72		1.39		1.15	
ANNUAL RUNOFF (INCHES)	23.39		18.91		15.63	
10 PERCENT EXCEEDS	6.3		5.5		3.6	
50 PERCENT EXCEEDS	0.85		0.96		0.43	
90 PERCENT EXCEEDS	0.12		0.01		0.01	

e Estimated

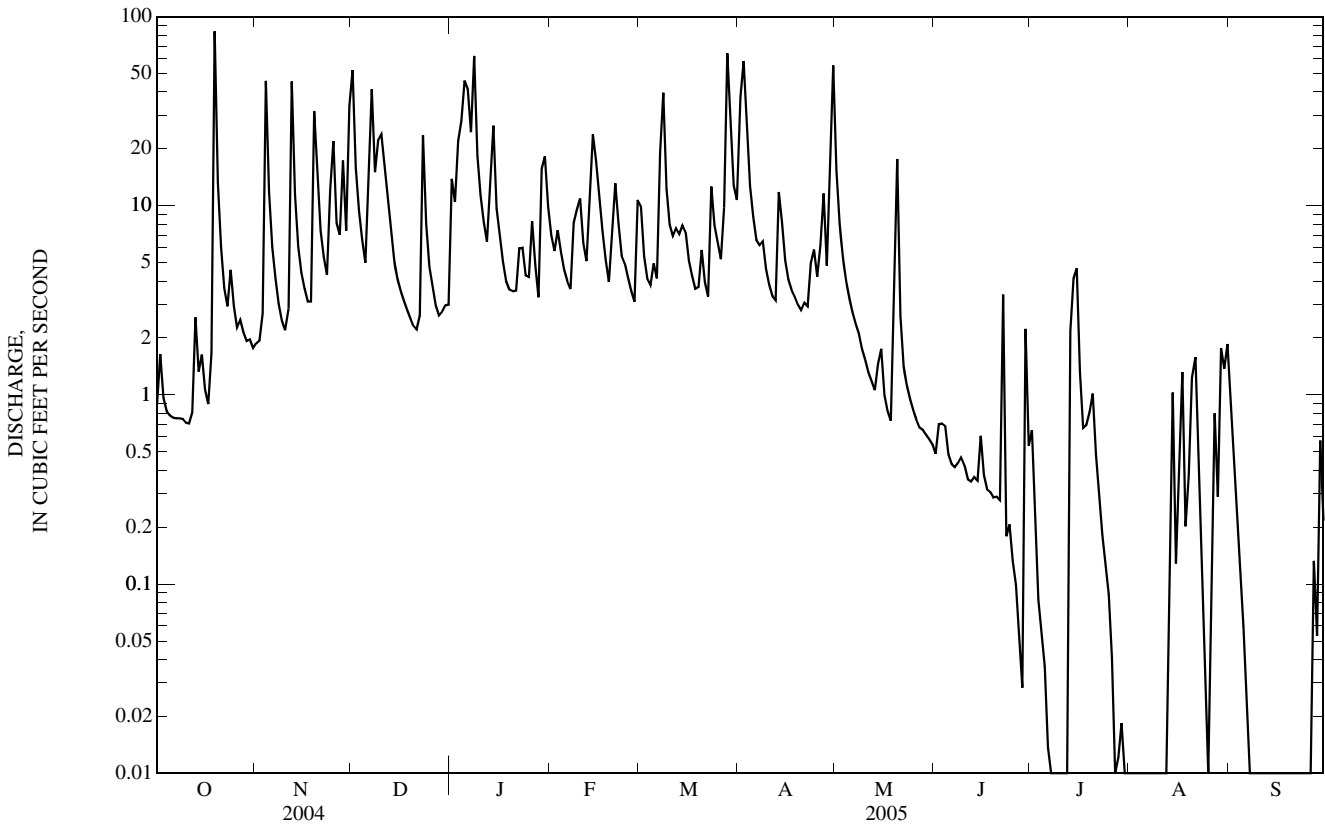




03250322 ROCK LICK CREEK AT HIGHWAY 158 NEAR SHARKEY, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL TOTAL	2,940.40		2,275.26		6.02	
ANNUAL MEAN	8.03		6.23		2.65	
HIGHEST ANNUAL MEAN					9.94	2003
LOWEST ANNUAL MEAN					2.65	1999
HIGHEST DAILY MEAN	125	Sep 17	84	Oct 19	561	May 6, 2003
LOWEST DAILY MEAN	0.37	Sep 7	0.00	Jul 7	0.00	Sep 21, 1997
ANNUAL SEVEN-DAY MINIMUM	0.44	Sep 1	0.00	Jul 30	0.00	Sep 21, 1997
MAXIMUM PEAK FLOW			205	Oct 19	3,190	Jul 8, 2001
MAXIMUM PEAK STAGE			6.64	Oct 19	10.71	Mar 2, 1997
ANNUAL RUNOFF (CF5M)	1.91		1.48		1.43	
ANNUAL RUNOFF (INCHES)	26.04		20.15		19.48	
10 PERCENT EXCEEDS	19		15		12	
50 PERCENT EXCEEDS	2.8		2.9		1.6	
90 PERCENT EXCEEDS	0.74		0.00		0.00	

e Estimated





## 03250500 LICKING RIVER AT BLUE LICK SPRINGS, KY

LOCATION.--Lat 38°25'13", long 83°59'50", Nicholas County, Hydrologic Unit 05100101, at bridge on Highway 68 at Blue Lick Springs, 1.3 mi upstream from Indian Run, 10 mi upstream from Johnson Creek, 10 mi downstream from Fleming Creek and at mile 97.6.

DRAINAGE AREA.--1,785 mi<sup>2</sup>

PERIOD OF RECORD.--April 1938 to September 1959 and October 2001 to current year.

GAGE.--Water-stage recorder with telemetry and crest-stage gage. Datum of gage is 560.99 ft above NGVD of 1929. Gage operated from April 1938 to September 1959, 500 ft downstream at same datum.

REMARKS.--Records fair except for those estimated, which are poor. Flow regulated since December 1973 by Cave Run Lake (station 03249498). Peak discharge and gage height for the 2005 water year occurred on January 6, but the discharge and stage are unknown.

COOPERATION.--National Streamflow Information Program.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 35,900 ft<sup>3</sup>/s April 13, 1948, maximum stage 45.0 ft April 13, 1948 from flood mark.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1937 reached a stage of 47.4 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	3,920	3,220	10,500	e2,250	6,500	3,320	5,060	9,590	389	167	54	608
2	3,890	3,160	11,300	e2,750	5,760	4,060	9,380	6,850	372	176	51	508
3	3,880	3,260	7,370	e8,800	5,530	4,200	11,500	4,620	374	209	50	481
4	3,870	6,130	5,180	e15,500	5,530	4,190	8,610	4,970	387	320	49	430
5	3,830	9,630	5,120	e16,300	5,330	4,350	5,700	5,070	394	336	48	334
6	3,810	8,250	4,990	e16,700	5,120	4,290	5,510	4,910	365	285	55	283
7	3,810	5,210	6,640	e15,700	4,960	3,710	5,430	4,750	358	268	57	272
8	3,820	4,370	7,810	e15,500	4,890	5,080	5,040	4,630	317	290	49	262
9	3,770	4,000	6,840	e13,900	5,080	8,290	5,070	4,540	218	330	46	239
10	3,710	3,780	7,060	e11,200	5,160	5,930	5,150	4,460	217	e200	45	229
11	3,690	4,220	6,330	e5,550	4,510	4,870	4,980	4,380	243	e125	46	235
12	3,680	10,200	6,250	e3,640	3,500	4,530	4,710	4,320	319	e90	48	248
13	3,540	8,770	5,840	2,630	3,220	4,390	4,090	4,040	421	97	51	235
14	2,770	5,700	5,430	4,670	4,410	4,390	4,510	3,270	370	124	54	198
15	2,010	4,450	5,300	5,360	5,360	4,310	4,190	2,750	347	165	57	119
16	1,580	4,290	5,100	3,920	5,380	3,930	3,590	1,770	326	349	61	95
17	1,520	4,050	4,960	2,770	4,620	2,970	2,480	1,480	310	326	64	94
18	1,680	3,660	4,840	2,520	4,040	2,240	1,480	1,010	306	285	58	91
19	9,030	3,130	4,740	3,240	3,510	1,700	1,310	778	317	243	73	87
20	13,400	3,990	4,630	4,110	2,950	1,730	1,240	1,800	290	235	120	96
21	10,200	4,190	e4,410	4,620	2,970	1,780	1,190	2,250	252	230	96	92
22	4,290	3,440	e4,510	4,910	3,580	1,660	1,220	2,590	165	431	84	113
23	4,110	3,410	e9,050	5,070	4,710	2,110	1,300	2,760	142	302	78	229
24	4,330	3,950	e6,920	5,120	4,140	2,970	1,470	1,730	135	229	77	232
25	4,270	4,720	e5,130	4,960	3,740	2,140	1,810	974	128	217	71	213
26	4,130	5,610	e4,020	4,980	3,510	1,710	2,170	705	123	190	62	215
27	3,900	5,020	e3,890	5,110	3,130	1,590	3,540	586	106	172	60	214
28	3,650	4,880	e3,660	5,000	2,350	5,180	4,430	520	91	158	59	212
29	3,170	4,690	e3,550	4,990	---	8,050	3,870	467	118	144	74	228
30	2,950	4,910	e2,740	6,650	---	8,270	6,930	431	112	97	169	245
31	2,840	---	e2,250	7,580	---	5,390	---	409	---	62	880	---
TOTAL	129,050	148,290	176,360	216,000	123,490	123,330	126,960	93,410	8,012	6,852	2,846	7,137
MEAN	4,163	4,943	5,689	6,968	4,410	3,978	4,232	3,013	267	221	91.8	238
MAX	13,400	10,200	11,300	16,700	6,500	8,290	11,500	9,590	421	431	880	608
MIN	1,520	3,130	2,250	2,250	2,350	1,590	1,190	409	91	62	45	87

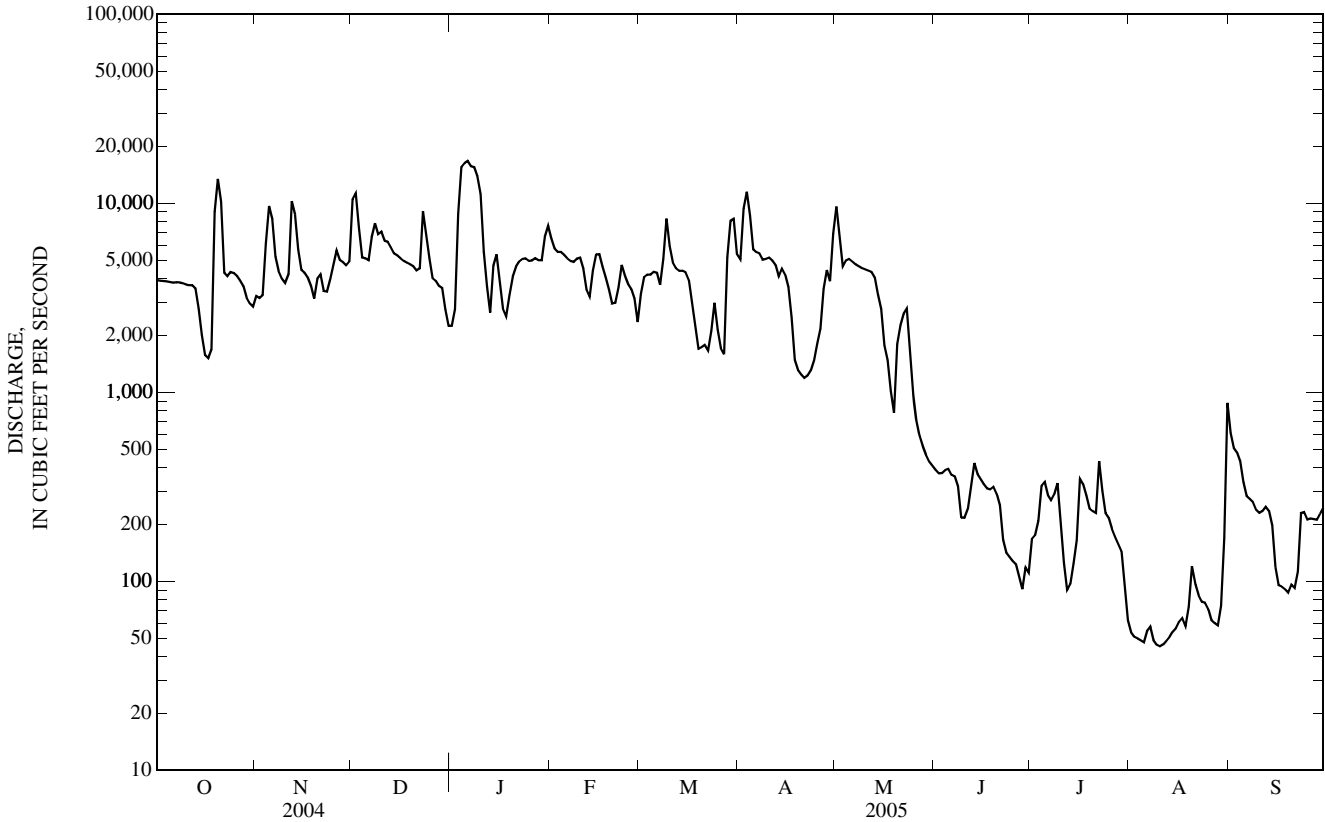
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2005, BY WATER YEAR (WY)

MEAN	1,702	3,752	4,041	4,109	4,229	5,183	4,425	4,826	3,161	744	673	1,393
MAX	4,163	5,325	5,689	6,968	6,896	6,337	5,806	7,516	5,515	1,545	1,298	4,418
(WY)	(2005)	(2004)	(2005)	(2005)	(2003)	(2002)	(2002)	(2003)	(2003)	(2004)	(2004)	(2004)
MIN	284	351	1,498	2,134	1,106	3,978	3,809	2,411	267	221	91.8	168
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2005)	(2003)	(2004)	(2005)	(2005)	(2005)	(2002)

03250500 LICKING RIVER AT BLUE LICK SPRINGS, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1974 - 2005	
ANNUAL TOTAL	1,440,409		1,161,737		3,179	
ANNUAL MEAN	3,936		3,183		3,751	
HIGHEST ANNUAL MEAN					2,196	
LOWEST ANNUAL MEAN					26,600	
HIGHEST DAILY MEAN	17,000	Sep 19	16,700	Jan 6	May 6, 2003	
LOWEST DAILY MEAN	210	Aug 31	45	Aug 10	Aug 15, 2002	
ANNUAL SEVEN-DAY MINIMUM	281	Aug 28	48	Aug 8	43	
MAXIMUM PEAK FLOW					35,900	
MAXIMUM PEAK STAGE					45.00	
10 PERCENT EXCEEDS	7,020		6,400		6,790	
50 PERCENT EXCEEDS	3,890		3,220		2,320	
90 PERCENT EXCEEDS	602		96		219	

e Estimated



## 03251200 NORTH FORK LICKING RIVER NEAR MOUNT OLIVET, KY

LOCATION.--Lat 38°35'41", long 84°01'13", Bracken County, Hydrologic Unit 05100101, on right bank, downstream side of bridge on State Highway 875, 4 mi northeast of Mt. Olivet, and at mile 26.1.

DRAINAGE AREA.--226 mi<sup>2</sup>

PERIOD OF RECORD.--June 1991 to current year.

GAGE.--Water-stage recorder with telemetry and crest-stage gage. Datum of gage is 622.46 ft above NGVD of 1929.

REMARKS.--Records fair.

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

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

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Jan 6	1200	*5,540	*20.32	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	8.0	393	2,530	199	492	284	470	1,320	16	1.5	0.82	6.3
2	7.4	606	2,260	213	417	354	1,680	532	14	1.3	0.69	2.9
3	6.9	635	798	1,990	419	252	2,110	307	13	1.6	0.58	1.6
4	6.5	1,650	458	4,090	494	219	1,040	221	14	1.3	0.43	1.1
5	6.0	2,230	334	4,690	417	334	552	175	12	1.1	0.40	0.90
6	4.4	973	286	5,080	340	658	395	143	9.3	1.2	0.46	0.78
7	4.5	394	1,010	3,580	298	446	317	119	8.3	1.1	0.55	0.70
8	3.0	263	1,490	2,730	312	441	276	101	7.3	0.92	1.2	0.69
9	2.7	188	825	2,380	322	530	312	85	6.5	0.79	0.93	0.76
10	2.3	145	1,250	941	389	367	236	74	9.0	0.71	0.79	0.75
11	2.3	565	1,330	595	407	298	188	64	20	0.70	0.60	0.64
12	2.0	3,180	858	545	334	258	161	56	15	0.60	0.39	0.57
13	3.3	3,430	551	527	352	230	208	49	10	0.96	0.33	0.59
14	3.0	1,240	382	1,440	756	211	163	46	7.9	1.2	0.28	0.68
15	6.0	425	288	1,090	1,070	197	145	76	6.6	1.1	0.23	0.59
16	11	303	e220	576	693	179	109	105	5.2	1.4	0.24	0.52
17	7.7	240	e150	412	451	165	93	70	4.2	3.7	0.28	0.41
18	247	205	e109	e288	341	150	83	50	3.5	2.4	0.21	0.35
19	1,810	623	e79	e210	272	150	75	74	2.7	1.6	0.73	0.35
20	2,480	1,060	e71	e156	234	200	69	664	1.9	3.6	0.76	0.60
21	1,440	765	e66	e109	222	243	63	534	1.7	8.4	0.69	0.57
22	366	452	e95	e85	210	194	73	184	1.6	8.0	0.59	0.53
23	323	337	1,610	e67	190	189	179	109	1.2	22	0.43	0.45
24	706	559	1,580	e61	170	555	244	76	1.1	13	0.32	0.34
25	501	896	574	e55	158	381	244	60	1.0	8.5	0.23	0.30
26	305	647	e286	e61	151	296	280	47	0.95	5.9	0.39	0.33
27	199	446	e180	e212	141	305	398	36	0.87	3.7	0.41	0.28
28	146	679	e155	e257	160	1,690	348	30	1.5	2.3	0.38	0.23
29	113	676	e143	296	---	2,000	216	25	1.8	1.4	0.48	0.21
30	95	814	201	584	---	1,150	1,250	22	1.4	1.2	1.1	0.11
31	90	---	210	686	---	591	---	19	---	0.97	11	---
TOTAL	8,908.0	25,019	20,379	34,205	10,212	13,517	11,977	5,473	199.52	104.15	26.92	25.13
MEAN	287	834	657	1,103	365	436	399	177	6.65	3.36	0.87	0.84
MAX	2,480	3,430	2,530	5,080	1,070	2,000	2,110	1,320	20	22	11	6.3
MIN	2.0	145	66	55	141	150	63	19	0.87	0.60	0.21	0.11
CFSM	1.27	3.69	2.91	4.88	1.61	1.93	1.77	0.78	0.03	0.01	0.00	0.00
IN.	1.47	4.12	3.35	5.63	1.68	2.22	1.97	0.90	0.03	0.02	0.00	0.00

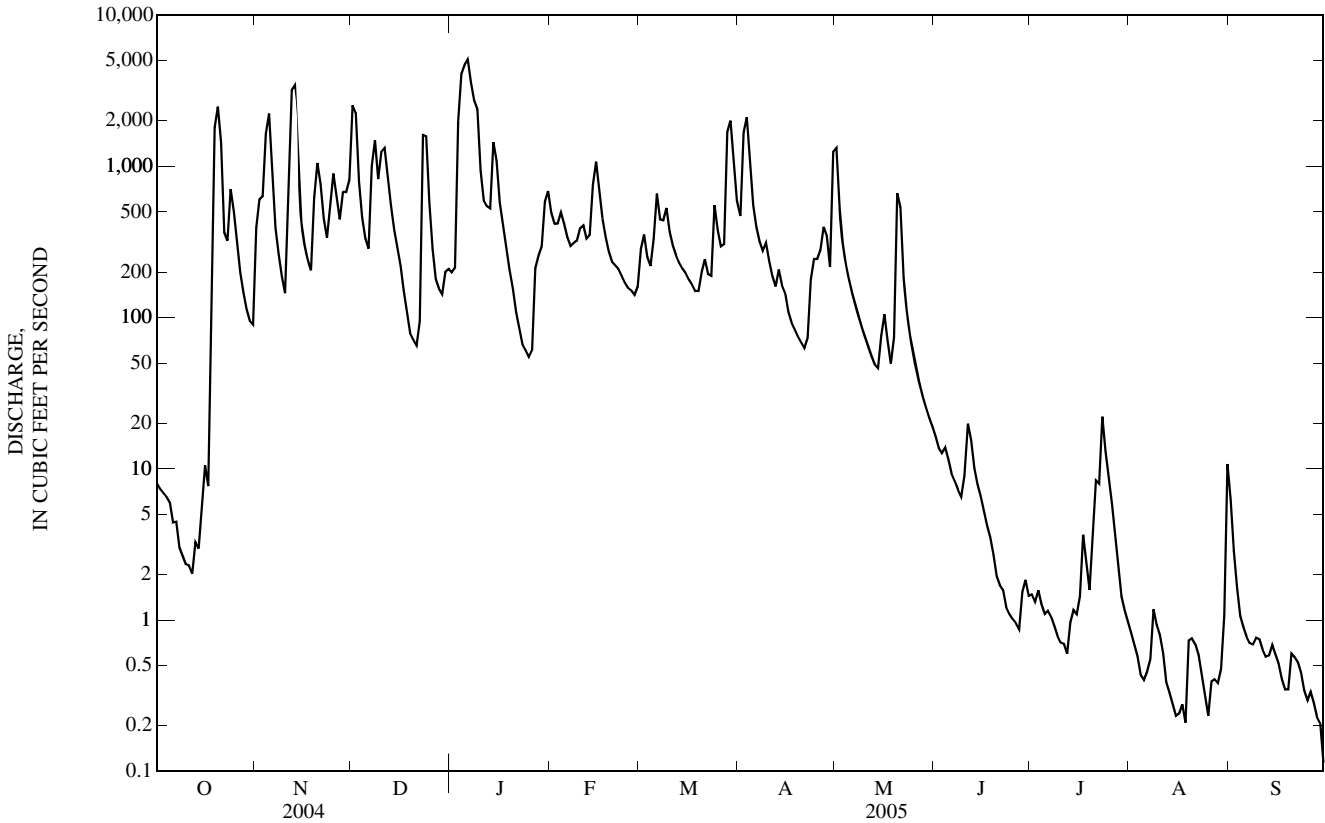
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)

MEAN	43.9	218	380	616	549	674	368	463	248	109	68.6	68.0
MAX	287	834	857	1,165	1,183	1,796	676	1,524	779	296	257	358
(WY)	(2005)	(2005)	(1997)	(1994)	(2003)	(1997)	(1994)	(1996)	(1998)	(1992)	(2001)	(2003)
MIN	0.01	0.01	15.0	152	213	228	73.2	18.9	1.34	0.20	0.25	0.06
(WY)	(2000)	(2000)	(2000)	(2000)	(2002)	(1998)	(1999)	(1999)	(1999)	(1999)	(2002)	(1999)

03251200 NORTH FORK LICKING RIVER NEAR MOUNT OLIVET, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1991 - 2005	
ANNUAL TOTAL	148,670.5		130,045.72		318	
ANNUAL MEAN	406		356		175	
HIGHEST ANNUAL MEAN					444 2003	
LOWEST ANNUAL MEAN					175 1999	
HIGHEST DAILY MEAN	3,830	Mar 7	5,080	Jan 6	12,400	Mar 2, 1997
LOWEST DAILY MEAN	1.5	Aug 22	0.11	Sep 30	0.00	Oct 10, 1997
ANNUAL SEVEN-DAY MINIMUM	2.0	Aug 17	0.26	Sep 24	0.00	Oct 17, 1997
MAXIMUM PEAK FLOW			5,540	Jan 6	13,500	Mar 2, 1997
MAXIMUM PEAK STAGE			20.32	Jan 6	34.71	Mar 2, 1997
INSTANTANEOUS LOW FLOW			0.06	Sep 30	0.06	Sep 30, 2005
ANNUAL RUNOFF (CFSM)	1.80		1.58		1.41	
ANNUAL RUNOFF (INCHES)	24.47		21.41		19.10	
10 PERCENT EXCEEDS	1,240		954		796	
50 PERCENT EXCEEDS	148		141		82	
90 PERCENT EXCEEDS	6.8		0.59		0.94	

e Estimated



## 03251500 LICKING RIVER AT MCKINNEYSBURG, KY

LOCATION.--Lat 38°35'52", long 84°16'00", Pendleton County, Hydrologic Unit 05100101, on right bank at upstream side of highway bridge at McKinneysburg, 6.5 mi southeast of Falmouth, 9.0 mi upstream from Blanket Creek, 12.9 mi upstream from South Fork, and at mile 64.6.

DRAINAGE AREA.--2,326 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1924 to August 1926, October 1938 to September 1994, September 2000 to current year. Monthly discharge only for October, November 1938, published in WSP 1305.

REVISED RECORDS.--WSP 1705: Drainage area.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 520.83 ft above NGVD of 1929. July 23, 1924 to August 9, 1926, nonrecording gage at same site, datum unknown. Nov. 18, 1983 to June 30, 1939, nonrecording gage at present site and datum. Oct. 1, 1949 to Sept. 30, 1957, auxiliary water-stage recorder 4.0 mi downstream.

REMARKS.-- Records fair. Flow regulated since December 1973 by Cave Run Lake (station 03249498).

COOPERATION.--National Streamflow Information Program.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in January 1937 reached a stage of 47.8 ft from flood marks. Flood of March 1997 reached a stage of 55.21 feet from flood marks. Discharge for the March 1997 flood was 74,000 cfs from rating extension.

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

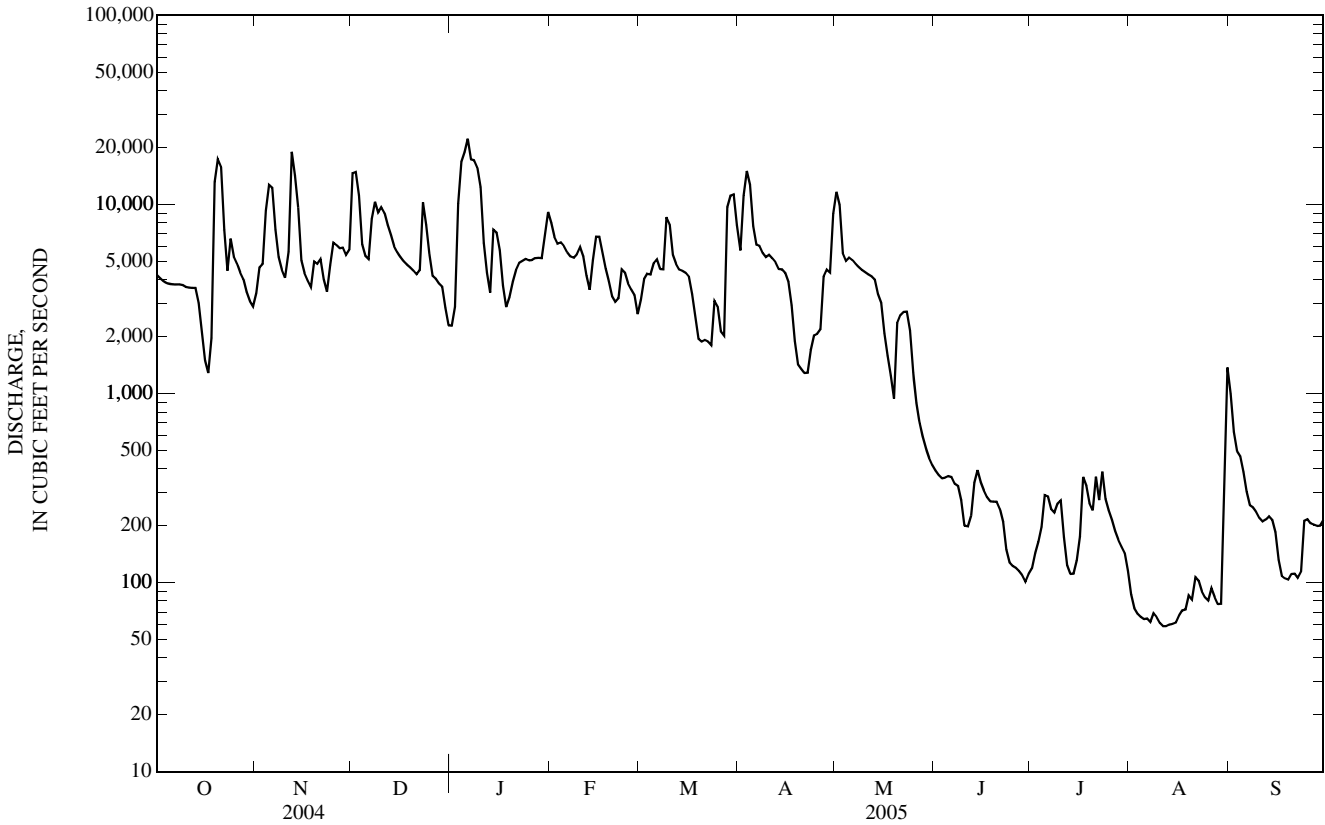
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,240	3,400	14,600	2,290	7,980	3,130	5,710	11,700	392	119	87	996
2	4,070	4,650	14,900	2,880	6,730	4,030	11,200	9,950	371	142	73	626
3	3,930	4,860	11,200	10,100	6,200	4,300	15,100	5,550	356	164	69	496
4	3,850	9,320	6,160	16,800	6,310	4,260	12,700	5,050	359	197	66	467
5	3,820	12,700	5,350	18,900	6,010	4,880	7,670	5,250	367	290	64	385
6	3,780	12,300	5,150	22,200	5,580	5,130	6,120	5,090	362	285	65	302
7	3,780	7,360	8,410	17,300	5,320	4,550	6,040	4,860	334	246	62	257
8	3,790	5,270	10,300	17,200	5,230	4,540	5,550	4,670	324	235	69	250
9	3,750	4,530	9,040	15,700	5,450	8,560	5,270	4,510	272	262	66	237
10	3,670	4,100	9,690	12,400	5,930	7,880	5,410	4,380	200	272	61	219
11	3,630	5,630	9,030	6,270	5,310	5,410	5,190	4,270	199	174	59	211
12	3,620	19,000	7,760	4,340	4,190	4,860	4,940	4,170	226	124	59	216
13	3,620	14,200	6,900	3,410	3,540	4,520	4,550	4,020	338	111	60	224
14	3,020	9,630	6,000	7,350	5,090	4,450	4,550	3,360	392	112	61	215
15	2,110	5,060	5,580	7,120	6,750	4,350	4,360	3,010	340	131	62	185
16	1,500	4,340	5,270	5,730	6,750	4,150	3,900	2,080	307	176	67	132
17	1,290	3,960	5,010	3,730	5,570	3,360	2,940	1,590	284	363	71	109
18	1,960	3,670	4,820	2,870	4,570	2,570	1,900	1,250	270	326	72	105
19	13,200	5,010	4,640	3,220	3,920	1,950	1,430	942	268	263	85	104
20	17,400	4,860	4,460	3,920	3,270	1,880	1,350	2,360	268	242	81	111
21	15,900	5,120	4,260	4,510	3,070	1,920	1,290	2,600	246	364	107	112
22	7,360	4,010	4,490	4,910	3,200	1,880	1,290	2,710	210	273	103	106
23	4,470	3,460	10,300	5,030	4,530	1,800	1,700	2,720	149	387	90	114
24	6,600	4,780	7,800	5,150	4,370	3,100	2,020	2,150	128	277	84	212
25	5,310	6,310	5,470	5,070	3,830	2,890	2,070	1,300	123	240	81	217
26	4,870	6,110	4,200	5,090	3,550	2,130	2,190	896	120	215	93	206
27	4,370	5,870	4,060	5,210	3,330	2,030	4,160	697	115	187	84	203
28	4,020	5,930	3,830	5,230	2,630	9,660	4,530	590	109	169	77	199
29	3,450	5,420	3,680	5,200	---	11,200	4,370	512	101	155	77	200
30	3,090	5,750	2,850	6,950	---	11,300	8,960	456	111	144	424	214
31	2,900	---	2,300	9,120	---	7,760	---	419	---	115	1,370	---
TOTAL	152,370	196,610	207,510	245,200	138,210	144,430	148,460	103,112	7,641	6,760	3,949	7,630
MEAN	4,915	6,554	6,694	7,910	4,936	4,659	4,949	3,326	255	218	127	254
MAX	17,400	19,000	14,900	22,200	7,980	11,300	15,100	11,700	392	387	1,370	996
MIN	1,290	3,400	2,300	2,290	2,630	1,800	1,290	419	101	111	59	104

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

MEAN	1,299	2,592	4,575	4,865	5,582	6,132	4,600	3,543	2,256	1,175	981	1,202
MAX	4,915	6,554	13,020	10,430	13,960	10,920	9,136	11,130	6,807	5,783	3,537	8,088
(WY)	(2005)	(2005)	(1979)	(1974)	(1889)	(1994)	(1975)	(1983)	(2004)	(1979)	(1979)	(1979)
MIN	121	228	859	275	1,382	1,006	465	293	100	164	69.9	144
(WY)	(1974)	(1988)	(1981)	(1981)	(2002)	(1983)	(1986)	(1976)	(1988)	(1984)	(1983)	(1987)

03251500 LICKING RIVER AT MCKINNEYSBURG, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1974 - 2005	
ANNUAL TOTAL	1,816,566		1,361,882		3,223	
ANNUAL MEAN	4,963		3,731		5,802	
HIGHEST ANNUAL MEAN					1,528	
LOWEST ANNUAL MEAN					43,100	
HIGHEST DAILY MEAN	19,500	Mar 7	22,200	Jan 6	59,100	Feb 16, 1989
LOWEST DAILY MEAN	200	Sep 1	59	Aug 11	44	Aug 17, 2002
ANNUAL SEVEN-DAY MINIMUM	273	Aug 27	61	Aug 9	48	Aug 15, 2002
MAXIMUM PEAK FLOW			23,400	Jan 6	59,100	Mar 10, 1964
MAXIMUM PEAK STAGE			26.13	Jan 6	50.26	Mar 10, 1964
INSTANTANEOUS LOW FLOW			62	Aug 11	62	Aug 11, 2005
10 PERCENT EXCEEDS	9,730		8,470		7,970	
50 PERCENT EXCEEDS	4,580		3,450		1,400	
90 PERCENT EXCEEDS	629		111		197	



## 03252300 HINKSTON CREEK NEAR CARLISLE, KY

LOCATION.--Lat 38°14'33", long 84°03'10", Bourbon County, Hydrologic Unit 05100102, at upstream side of bridge on State Highway 13, 0.5 mi upstream from Taylors Creek, 5.0 mi south of Carlisle, and at mile 29.0.

DRAINAGE AREA.--154 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1991 to current year.

REVISED RECORDS.--WRD KY-93-1: Drainage area, WRD KY-99-1: Longitude.

GAGE.--Water-stage recorder with telemetry and crest-stage gage. Datum of gage is 764.88 ft above NGVD of 1929.

REMARKS.-- Records fair.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,400 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Oct 19	1130	*3,750	*23.13	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	21	465	2,370	112	301	267	377	724	18	3.9	1.2	65
2	20	431	1,210	189	235	199	1,670	297	16	2.9	1.1	30
3	20	552	467	524	261	168	1,040	194	15	4.7	0.98	14
4	20	1,380	289	687	252	153	522	151	17	20	0.70	7.1
5	17	1,440	209	1,350	204	145	347	123	26	24	0.47	4.5
6	13	482	257	1,380	177	128	257	104	20	9.1	e0.41	2.8
7	12	273	1,140	1,070	157	117	212	91	15	5.2	e0.38	1.9
8	12	186	1,040	2,320	152	826	191	80	13	3.5	e0.37	1.1
9	11	136	507	1,280	172	605	159	70	11	2.3	e0.37	0.75
10	11	110	789	522	183	320	135	63	19	1.6	e0.36	0.51
11	11	138	480	333	176	242	119	56	15	1.2	e0.36	0.30
12	11	1,770	377	254	165	205	110	50	11	0.98	e0.36	0.13
13	14	733	282	245	170	192	133	46	9.4	2.3	0.35	0.15
14	33	311	205	e1,020	436	172	176	46	8.3	15	0.34	0.26
15	37	204	e169	e823	470	175	118	60	7.5	31	0.28	0.32
16	29	157	e134	e368	339	162	95	58	7.0	20	0.51	0.26
17	30	132	e106	e251	247	150	85	44	8.6	18	0.85	0.21
18	39	112	e87	e189	191	136	79	37	8.0	16	1.1	0.20
19	3,250	149	e74	e147	156	127	73	36	6.0	33	1.6	0.16
20	3,020	193	e64	e116	139	191	68	277	4.5	32	3.7	0.17
21	601	150	73	e73	216	156	65	166	4.0	45	4.4	0.18
22	207	124	79	e52	361	131	66	80	3.1	20	5.2	0.15
23	150	114	928	e36	286	385	73	57	2.2	11	6.0	0.09
24	325	267	541	e23	218	400	86	46	1.5	8.1	4.3	0.03
25	240	478	234	e17	180	259	74	40	1.1	6.2	3.1	0.00
26	156	320	e121	e22	151	227	65	35	1.1	4.7	3.8	0.00
27	169	234	e68	e62	132	411	125	31	0.91	3.0	4.7	0.00
28	187	493	e31	90	151	1,840	113	27	1.2	2.0	4.0	0.00
29	172	332	e23	212	---	1,200	153	24	5.7	1.3	8.6	0.03
30	146	785	e16	649	---	545	1,160	21	5.2	1.2	20	0.07
31	122	---	e16	446	---	360	---	19	---	1.2	46	---
TOTAL	9,106	12,651	12,386	14,862	6,278	10,594	7,946	3,153	281.31	350.38	125.89	130.37
MEAN	294	422	400	479	224	342	265	102	9.38	11.3	4.06	4.35
MAX	3,250	1,770	2,370	2,320	470	1,840	1,670	724	26	45	46	65
MIN	11	110	16	17	132	117	65	19	0.91	0.98	0.28	0.00
CFSM	1.91	2.74	2.59	3.11	1.46	2.22	1.72	0.66	0.06	0.07	0.03	0.03
IN.	2.20	3.06	2.99	3.59	1.52	2.56	1.92	0.76	0.07	0.08	0.03	0.03

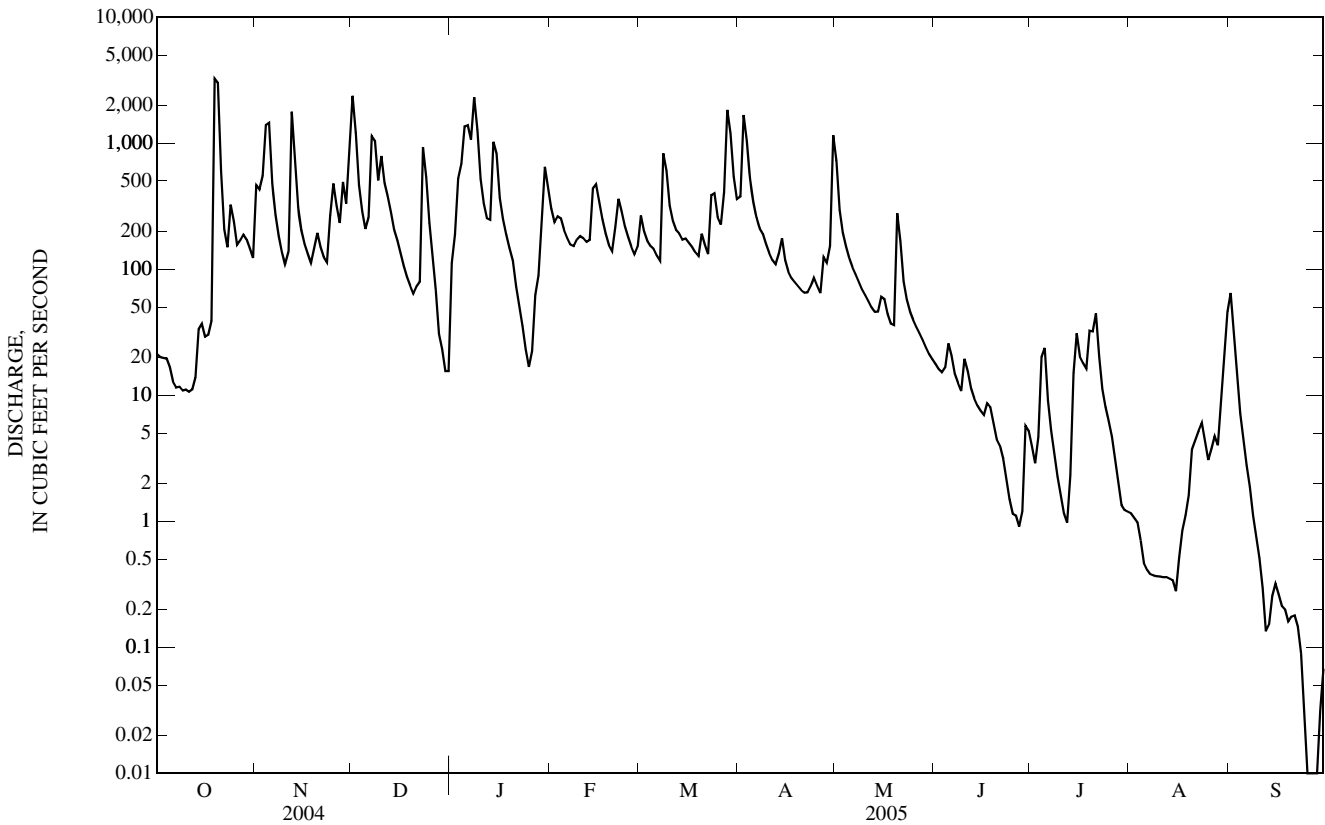
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2005, BY WATER YEAR (WY)

MEAN	47.7	158	228	373	348	462	199	310	172	68.1	68.1	33.1
MAX	294	470	453	675	898	1,210	436	875	652	315	277	248
(WY)	(2005)	(2004)	(1997)	(1994)	(2003)	(1997)	(1994)	(1996)	(1997)	(2001)	(2001)	(2004)
MIN	1.33	3.10	9.99	35.3	79.7	240	40.4	17.7	9.38	8.92	3.80	0.70
(WY)	(1998)	(2000)	(2000)	(2000)	(2002)	(1998)	(1999)	(1999)	(2005)	(1999)	(2002)	(1999)

03252300 HINKSTON CREEK NEAR CARLISLE, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1992 - 2005	
ANNUAL TOTAL	112,450		77,863.95			
ANNUAL MEAN	307		213		205	
HIGHEST ANNUAL MEAN					305	2003
LOWEST ANNUAL MEAN					77.1	2000
HIGHEST DAILY MEAN	4,640	May 31	3,250	Oct 19	7,520	Mar 2, 1997
LOWEST DAILY MEAN	11	Oct 9	0.00	Sep 25	0.00	Aug 11, 1999
ANNUAL SEVEN-DAY MINIMUM	12	Oct 6	0.02	Sep 24	0.00	Aug 11, 1999
MAXIMUM PEAK FLOW			3,750	Oct 19	7,800	Mar 2, 1997
MAXIMUM PEAK STAGE			23.13	Oct 19	37.00	Mar 2, 1997
INSTANTANEOUS LOW FLOW			0.00	Sep 25	0.00	Sep 25, 2005
ANNUAL RUNOFF (CFSM)	2.00		1.39		1.33	
ANNUAL RUNOFF (INCHES)	27.16		18.81		18.11	
10 PERCENT EXCEEDS	782		522		485	
50 PERCENT EXCEEDS	114		79		58	
90 PERCENT EXCEEDS	20		0.89		2.9	

e Estimated





## 03253500 LICKING RIVER AT CATAWBA, KY

LOCATION.--Lat 38°42'37", long 84°18'39", Pendleton County, Hydrologic Unit 05100101, on left bank 1.0 mi southeast of Catawba, 1.5 mi upstream from Kincaid Creek, 2.3 mi north of Falmouth, and at mile 48.0.

DRAINAGE AREA.--3,300 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1914 to July 1920 (January 1914 to July 1915 and October 1917 to July 1920, gage heights only), July 1928 to current year. Published as "at Falmouth" 1914-16. Gage-height records collected in this vicinity since 1887 are published in reports of the National Weather Service.

REVISED RECORDS.--WSP 853: 1937. WSP 1003: 1943. WSP 1385: 1942. WSP 1705: Drainage.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 500.01 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Jan. 1, 1914 to July 31, 1916, nonrecording gage at site 3.8 mi upstream at datum 12.2 ft higher. July 14, 1916 to July 5, 1920, nonrecording gage at site 1.4 mi downstream at present datum.

REMARKS.--Records good except for May 2-Sept. 30, which are fair and those estimated and Nov. 5-9, 15-20, 27-30, Dec. 5-7, 29-31, Apr. 6-10, which are poor. Flow regulated since December 1973 by Cave Run Lake (station 03249498).

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	4,090	4,140	20,500	3,370	10,200	3,550	8,010	14,200	451	191	123	1,530
2	4,030	7,850	22,300	4,490	8,470	4,630	12,400	13,200	423	156	98	886
3	3,980	9,630	16,000	14,200	7,650	5,150	18,500	7,620	395	170	74	759
4	3,960	15,000	9,220	25,400	7,760	4,980	16,300	5,950	404	167	65	666
5	3,920	19,000	7,410	26,100	7,570	5,620	10,700	5,910	397	242	60	558
6	3,870	16,800	6,790	31,800	7,030	6,380	8,070	5,600	413	286	58	444
7	3,830	10,600	11,500	24,500	6,500	5,520	7,580	5,240	402	253	58	373
8	3,850	7,310	15,400	23,000	6,340	5,280	6,930	4,950	387	231	56	327
9	3,810	5,920	13,400	23,200	6,520	9,380	6,250	4,730	374	237	63	306
10	3,730	5,120	12,900	17,500	7,370	10,700	6,240	4,560	322	284	61	280
11	3,670	6,370	12,700	10,400	6,620	7,260	5,880	4,430	276	231	54	264
12	3,650	27,800	10,500	7,540	5,330	6,140	5,450	4,290	309	161	53	251
13	3,680	21,200	9,130	5,530	4,410	5,550	5,170	4,210	370	133	54	260
14	3,220	13,900	7,960	10,600	6,400	5,260	5,110	3,580	500	128	55	260
15	2,420	7,890	7,120	10,900	8,660	5,080	5,040	3,100	496	129	56	247
16	1,800	6,170	6,520	9,160	9,030	4,830	4,460	2,330	460	171	63	205
17	1,560	5,410	6,080	6,000	7,740	4,030	3,350	1,770	417	310	73	157
18	1,860	4,860	5,730	4,240	6,180	3,130	2,270	1,470	366	397	78	e139
19	18,500	7,220	5,470	4,020	5,110	2,450	1,580	1,130	327	332	96	e136
20	27,600	7,430	5,130	4,560	4,170	2,210	1,440	3,260	335	324	134	e138
21	23,600	6,760	4,950	5,240	3,690	2,290	1,350	2,940	334	441	178	e138
22	11,600	5,450	5,380	5,550	3,750	2,330	1,320	3,650	304	364	165	e137
23	6,310	4,430	14,200	5,590	5,280	2,150	1,810	3,170	251	418	142	e134
24	8,100	6,250	12,800	5,590	5,870	3,200	2,470	2,610	186	406	128	e177
25	7,610	9,090	9,260	5,500	4,850	3,740	2,200	1,610	179	345	113	e267
26	7,090	8,540	6,390	5,490	4,350	3,010	2,270	1,030	183	308	144	e247
27	5,950	8,220	5,500	5,600	3,980	2,530	4,250	785	194	269	209	e233
28	5,250	7,700	4,950	5,580	3,300	16,800	4,760	672	196	235	148	e229
29	e6,680	7,650	4,840	5,570	---	18,800	4,810	613	233	218	129	e228
30	e5,700	7,660	5,730	7,610	---	15,800	10,400	549	176	184	1,510	e232
31	4,040	---	4,420	10,700	---	11,200	---	501	---	155	4,790	---
TOTAL	198,960	281,370	290,180	334,530	174,130	188,980	176,370	119,660	10,060	7,876	9,088	10,208
MEAN	6,418	9,379	9,361	10,790	6,219	6,096	5,879	3,860	335	254	293	340
MAX	27,600	27,800	22,300	31,800	10,200	18,800	18,500	14,200	500	441	4,790	1,530
MIN	1,560	4,140	4,420	3,370	3,300	2,150	1,320	501	176	128	53	134

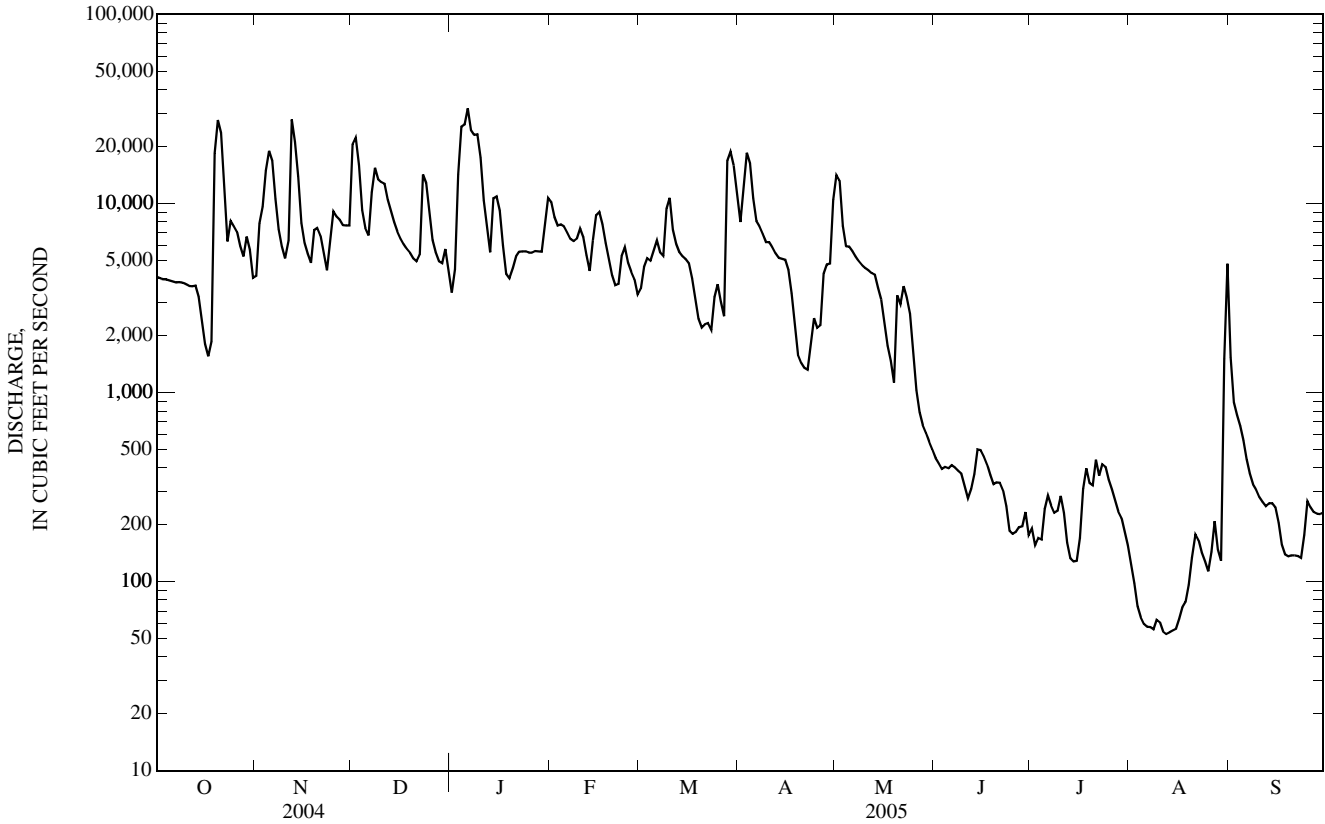
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2005, BY WATER YEAR (WY)

MEAN	1,442	3,088	5,704	6,657	7,656	8,312	5,724	5,173	3,304	1,664	1,264	1,433
MAX	7,178	9,379	18,500	15,110	21,140	21,310	11,920	16,660	11,230	6,962	4,630	12,860
(WY)	(1976)	(2005)	(1979)	(1974)	(1989)	(1997)	(1975)	(1983)	(1997)	(1979)	(1974)	(1979)
MIN	79.8	107	1,008	420	1,950	1,247	666	342	101	86.0	68.4	51.5
(WY)	(2000)	(2000)	(2000)	(1981)	(2002)	(1983)	(1986)	(1999)	(1999)	(1999)	(1999)	(1999)

03253500 LICKING RIVER AT CATAWBA, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1974 - 2005	
ANNUAL TOTAL	2,397,243		1,801,412		4,270	
ANNUAL MEAN	6,550		4,935		7,730	
HIGHEST ANNUAL MEAN					1979	
LOWEST ANNUAL MEAN					2,006	
HIGHEST DAILY MEAN	33,800	Jun 1	31,800	Jan 6	104,000	Mar 3, 1997
LOWEST DAILY MEAN	416	Aug 21	53	Aug 12	25	Jul 8, 1988
ANNUAL SEVEN-DAY MINIMUM	518	Aug 28	57	Aug 8	38	Jul 3, 1988
MAXIMUM PEAK FLOW			34,100	Jan 6	110,000	Mar 3, 1997
MAXIMUM PEAK STAGE			26.19	Jan 6	57.57	Mar 21, 1997
INSTANTANEOUS LOW FLOW			51	Aug 12	2.5	Aug 5, 1930
10 PERCENT EXCEEDS	14,400		11,300		10,700	
50 PERCENT EXCEEDS	5,400		4,030		1,760	
90 PERCENT EXCEEDS	937		156		232	

e Estimated



## 03254480 CRUISES CREEK AT HIGHWAY 17 NEAR PINER, KY

LOCATION.--Lat 38°50'40", long 84°31'56", Kenton County, Hydrologic Unit 05100101, at bridge on Highway 17, 0.6 mi downstream from Sawyers Fork, 0.9 mi north of Piner, and 7.8 mi upstream from the mouth.

DRAINAGE AREA.--18.0 mi<sup>2</sup>.

## WATER DISCHARGE RECORDS

PERIOD OF RECORD.--December 2000 to current year.

GAGE.--Water-stage recorder with telemetry and crest-stage gage. Datum of gage is 656.926 ft above NGVD of 1929.

REMARKS.--Records fair.

COOPERATION.--Northern Kentucky Sanitation District No. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.13	15	142	148	e20	23	26	11	2.2	4.5	0.05	7.1
2	0.12	113	39	67	e25	16	46	9.7	1.9	4.4	0.04	3.4
3	0.10	69	28	1,050	37	20	34	8.4	2.2	0.77	0.03	2.6
4	0.10	75	22	311	e30	21	25	7.3	2.1	0.31	0.02	1.3
5	0.09	37	14	916	e27	20	22	6.8	1.9	0.18	0.01	0.65
6	0.09	20	20	580	e23	13	19	6.3	1.6	0.10	0.01	0.45
7	0.08	13	82	91	e25	39	18	8.0	1.5	0.07	0.00	0.32
8	0.08	15	34	158	130	51	15	6.1	1.3	0.05	0.00	0.19
9	0.07	13	75	52	59	26	17	4.4	1.2	0.03	0.00	0.14
10	0.07	12	59	35	46	22	12	4.1	0.92	0.02	0.00	0.11
11	0.06	229	44	149	32	21	10	3.7	2.2	0.01	0.00	0.09
12	0.06	282	38	81	27	19	9.9	3.8	2.3	0.01	0.00	0.06
13	0.12	45	21	246	40	15	16	3.6	16	0.05	0.00	0.05
14	0.14	37	16	134	106	13	10	6.0	3.1	2.3	0.00	0.04
15	1.4	30	13	50	57	13	8.1	4.8	2.0	4.2	0.00	0.03
16	5.5	19	12	e34	38	12	11	3.1	1.5	1.8	0.00	0.03
17	5.7	16	10	e18	32	11	7.8	2.7	1.0	0.98	0.00	0.02
18	123	14	9.1	e21	25	10	6.5	2.5	0.60	0.77	0.00	0.01
19	106	257	7.8	22	21	12	6.6	12	0.36	0.71	0.00	0.01
20	71	54	5.4	20	20	13	5.8	19	0.23	4.5	0.02	0.05
21	23	30	6.2	16	20	13	5.2	4.8	0.17	5.8	0.95	0.25
22	10	24	19	e11	15	12	8.1	3.1	0.12	2.2	0.78	0.54
23	13	18	22	e7.0	14	38	92	2.8	0.08	2.0	0.28	0.29
24	37	113	e8.7	e8.3	15	25	42	2.8	0.06	1.0	0.12	0.19
25	14	55	e7.4	13	13	20	28	2.8	0.04	0.60	0.07	0.13
26	9.2	28	e7.0	15	13	17	43	2.4	0.03	0.30	2.6	0.30
27	51	22	e6.6	e5.9	12	24	39	2.2	0.03	0.17	2.2	1.1
28	22	35	e6.2	e7.0	18	1,300	20	2.8	0.02	0.13	1.1	1.0
29	14	20	16	e10	---	90	22	3.1	0.02	0.09	0.54	0.79
30	17	40	236	e17	---	49	15	2.3	0.01	0.07	145	0.51
31	15	---	437	e17	---	30	---	2.3	---	0.05	48	---
TOTAL	539.11	1,750	1,463.4	4,310.2	940	2,008	640.0	164.7	46.69	38.17	201.82	21.75
MEAN	17.4	58.3	47.2	139	33.6	64.8	21.3	5.31	1.56	1.23	6.51	0.72
MAX	123	282	437	1,050	130	1,300	92	19	16	5.8	145	7.1
MIN	0.06	12	5.4	5.9	12	10	5.2	2.2	0.01	0.01	0.00	0.01

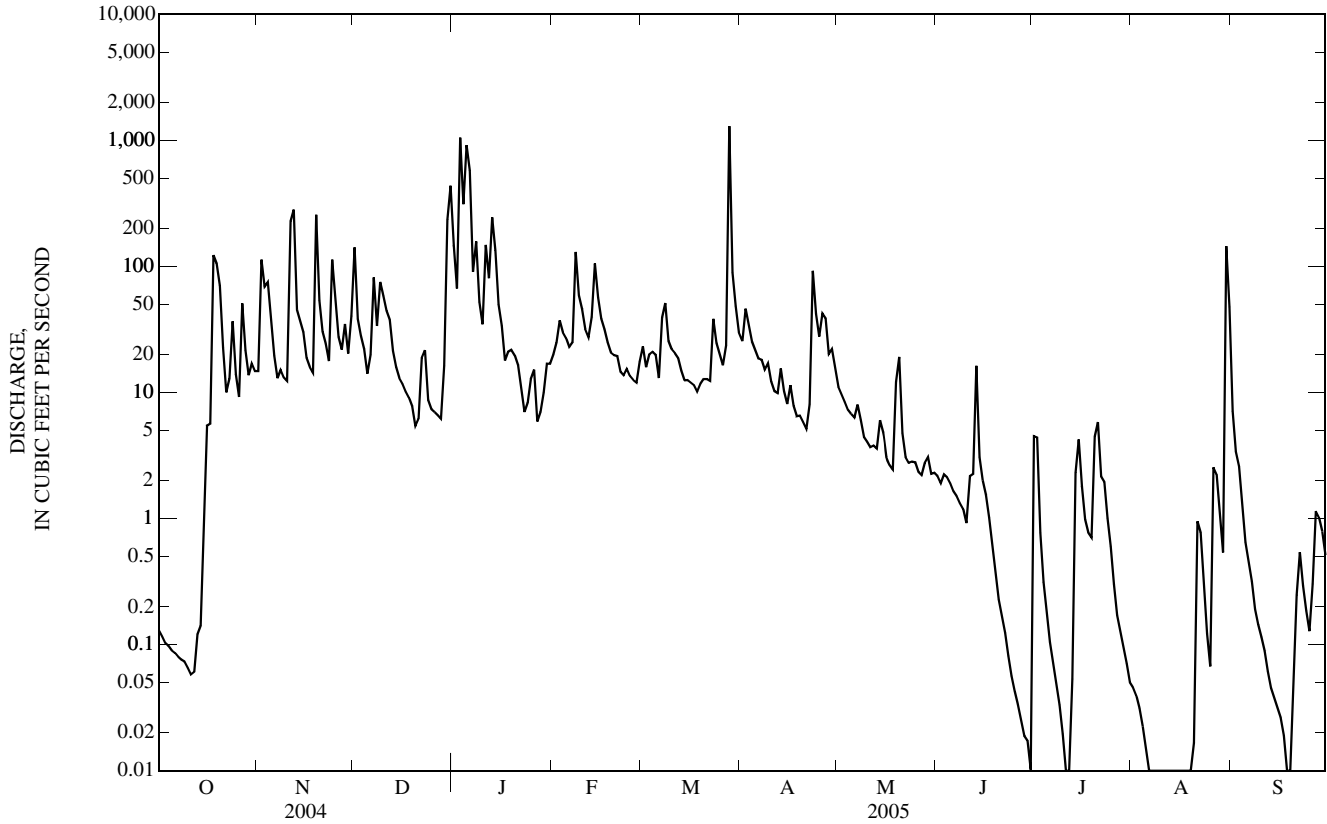
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	19.0	40.7	45.8	60.6	37.4	39.9	28.4	53.1	9.81	17.4	11.0	11.7
MAX	41.1	58.3	62.6	139	64.2	64.8	60.2	95.1	20.4	44.9	35.1	46.4
(WY)	(2002)	(2005)	(2002)	(2005)	(2003)	(2005)	(2002)	(2003)	(2002)	(2004)	(2003)	(2003)
MIN	7.73	18.0	28.2	11.3	21.7	16.8	2.89	3.83	1.56	0.02	0.00	0.72
(WY)	(2004)	(2003)	(2004)	(2001)	(2002)	(2001)	(2001)	(2001)	(2005)	(2002)	(2002)	(2005)

03254480 CRUISES CREEK AT HIGHWAY 17 NEAR PINER, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
ANNUAL TOTAL	13,743.10		12,123.84		34.9	
ANNUAL MEAN	37.5		33.2		33.2	
HIGHEST ANNUAL MEAN					36.6	2003
LOWEST ANNUAL MEAN					33.2	2005
HIGHEST DAILY MEAN	1,440	Jan 4	1,300	Mar 28	1,610	May 10, 2003
LOWEST DAILY MEAN	0.06	Oct 11	0.00	Aug 7	0.00	Jul 8, 2002
ANNUAL SEVEN-DAY MINIMUM	0.07	Oct 6	0.00	Aug 7	0.00	Jul 16, 2002
MAXIMUM PEAK FLOW			7,030	Jan 3	9,110	May 10, 2003
MAXIMUM PEAK STAGE			10.64	Jan 3	11.62	May 10, 2003
INSTANTANEOUS LOW FLOW					0.00	Jul 8, 2002
10 PERCENT EXCEEDS	70		56		62	
50 PERCENT EXCEEDS	12		9.1		9.8	
90 PERCENT EXCEEDS	0.48		0.05		0.12	

e Estimated



## 03254480 CRUISES CREEK AT HIGHWAY 17 NEAR PINER, KY

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 2000 to current year.

COOPERATION.--Northern Kentucky Sanitation District No. 1.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 2000 to current year.

pH: December 2000 to current year.

WATER TEMPERATURES: December 2000 to current year.

DISSOLVED OXYGEN: December 2000 to current year.

TURBIDITY: December 2000 to current year.

INSTRUMENTATION.--Water-quality monitor with telemetry. New turbidity probe installed summer 2004, range 0-3000 FNU.

REMARKS.--

SPECIFIC CONDUCTANCE: Records rated excellent. No missing record.

pH: Records rated excellent. No missing record.

WATER TEMPERATURES: Records rated excellent. No missing record.

DISSOLVED OXYGEN: Records rated fair. Missing periods are Dec. 5-10, 2004, Jan. 12-20, Apr. 17-19, May 5, June 14-21, and July 27 to Sept. 16, 2005.

TURBIDITY: Records rated poor. Missing periods are Mar. 18-22, 24-25, Apr. 10-19, Apr. 28 to May 6, May 19 to June 1, June 18-21, and July 16-20, 2005.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 916 microsiemens, Feb. 25, 2001; minimum recorded, 69 microsiemens, Jan. 5, 2005.

pH: Maximum recorded, 8.9 units, March 12, 2003, May 2, Sept. 9-10, 2005; minimum recorded, 6.6 Aug. 12, 2005.

WATER TEMPERATURES: Maximum recorded 29.2°C, Jul. 26, 2005; minimum recorded, 0.0°C, several days in Jan. and Feb. 2003, and several days in Dec. 2004, Jan. 2005, and on Mar. 3, 2005.

DISSOLVED OXYGEN: Maximum recorded, 20.0 mg/L, March 10, 2003; minimum recorded, 1.2 mg/L, July 24, 2001.

TURBIDITY: Maximum recorded, 2580 FNU, Jan. 3, 2005 ; minimum recorded, <2.0 FNU, Nov. 30, Dec. 2, 2002, Jan. 12-29, 31, Feb. 1, 2, 2003.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 730 microsiemens, Jan. 30, 2005; minimum recorded, 69 microsiemens, Jan. 5, 2005.

pH: Maximum recorded, 8.9 units, May 2, and Sept. 9-10, 2005; minimum recorded, 6.6 units, Aug. 12, 2005.

WATER TEMPERATURES: Maximum recorded, 29.2°C, July 26, 2005; minimum recorded, 0.0°C, several days in Dec. 2004, Jan., Feb., and Mar. 3, 2005.

DISSOLVED OXYGEN: Maximum recorded, 19.4 mg/L, Feb. 25, 2005; minimum recorded, 1.9 mg/L, Oct. 16, 2004.

TURBIDITY: Maximum recorded, 2580 FNU, Jan. 3, 2005; minimum recorded, 4.5 FNU, Oct. 1-2, 2004.

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	567	561	564	514	501	508	419	257	338	387	270	337
2	569	564	567	513	323	435	470	419	451	437	386	415
3	575	565	569	438	352	395	486	469	481	447	80	267
4	578	569	574	445	389	411	486	471	477	279	94	254
5	579	574	576	452	419	440	511	485	501	226	69	181
6	580	574	577	501	450	472	512	495	504	288	134	205
7	578	572	576	521	501	513	506	316	398	343	288	323
8	579	572	576	530	459	501	472	387	440	356	236	290
9	581	548	577	460	445	452	493	304	434	418	296	392
10	583	579	581	450	439	444	449	306	402	433	291	352
11	583	580	581	446	165	386	458	442	452	453	173	303
12	584	558	580	373	165	287	476	443	453	403	190	331
13	595	572	585	430	373	408	496	475	489	429	165	347
14	613	591	604	429	407	412	502	492	496	373	195	310
15	611	563	595	420	405	409	511	497	503	418	371	397
16	566	530	544	462	418	445	527	508	517	443	418	433
17	537	523	529	472	460	467	521	510	516	489	395	465
18	533	212	450	470	460	465	530	515	522	499	484	490
19	354	212	301	462	186	320	525	515	521	493	470	482
20	399	227	330	437	352	406	565	525	552	498	462	469
21	420	314	379	460	437	452	588	550	572	497	461	470
22	456	418	439	473	457	466	564	449	495	624	484	568
23	475	455	466	506	471	486	547	476	510	583	550	569
24	461	421	434	509	311	394	541	497	512	595	561	578
25	475	435	455	441	375	406	589	541	573	572	527	554
26	491	475	484	481	441	464	581	541	563	530	496	511
27	480	410	429	501	481	494	561	544	551	544	498	520
28	468	427	448	490	442	455	584	555	569	568	543	561
29	499	468	484	505	454	486	567	499	551	605	529	565
30	506	499	504	514	339	488	547	243	404	730	515	609
31	507	498	502	---	---	---	270	198	221	696	605	645
MONTH	613	212	512	530	165	439	589	198	483	730	69	426





## 03254480 CRUISES CREEK AT HIGHWAY 17 NEAR PINER, 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	16.7	13.6	15.2	14.5	13.4	14.0	9.8	6.8	8.5	6.8	5.9	6.3
2	16.6	14.7	16.0	16.0	14.3	15.1	6.8	4.8	5.6	8.9	5.9	7.1
3	15.3	11.9	13.7	14.9	12.2	13.2	5.7	4.3	4.9	9.5	8.9	9.2
4	15.6	11.3	13.3	13.4	12.1	12.7	4.6	2.6	3.8	9.5	8.7	9.1
5	14.0	10.9	12.6	12.1	9.7	10.6	5.1	3.0	4.1	8.7	7.5	8.2
6	12.7	9.6	11.3	10.4	7.9	9.3	8.9	5.1	7.0	7.5	5.7	6.9
7	12.4	9.4	11.0	11.5	8.5	10.0	12.3	8.9	10.9	5.9	5.1	5.5
8	13.6	10.6	12.1	10.7	7.8	9.2	10.9	7.9	9.1	6.4	5.8	6.2
9	15.0	12.7	13.8	7.8	6.0	6.9	9.4	6.8	7.7	7.1	5.7	6.2
10	15.4	12.9	14.2	8.4	5.5	7.0	10.1	9.4	9.7	7.1	6.0	6.5
11	13.7	11.0	12.5	10.3	7.5	8.4	9.5	7.0	8.1	9.8	6.9	8.2
12	13.1	10.9	12.0	11.0	9.4	10.4	7.0	6.1	6.6	11.7	9.8	10.8
13	13.5	12.6	12.9	9.4	7.0	7.7	6.8	3.4	5.3	11.7	9.0	11.1
14	14.8	13.2	13.8	7.4	5.2	6.4	3.4	1.7	2.5	9.0	5.2	7.1
15	13.9	11.1	12.3	7.7	4.8	6.4	1.7	0.2	0.8	5.2	3.4	4.1
16	11.1	10.3	10.7	8.8	7.1	7.9	0.6	0.0	0.2	4.0	1.1	2.7
17	10.3	8.0	9.2	10.4	8.8	9.6	1.3	0.0	0.6	1.1	0.0	0.0
18	12.2	8.3	9.2	12.2	10.4	11.3	2.0	0.0	0.8	0.1	0.0	0.0
19	13.7	12.2	13.0	12.9	11.9	12.4	1.9	0.0	1.0	0.0	0.0	0.0
20	14.1	13.6	13.8	12.7	12.0	12.4	0.4	0.0	0.0	0.1	0.0	0.0
21	14.3	13.8	14.1	12.2	11.0	11.5	0.5	0.0	0.1	0.1	0.0	0.0
22	14.0	12.9	13.5	11.0	10.6	10.8	0.2	0.0	0.0	0.0	0.0	0.0
23	13.5	11.9	12.6	11.0	10.2	10.6	0.0	0.0	0.0	0.0	0.0	0.0
24	15.5	13.4	14.3	13.1	11.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0
25	14.1	11.5	13.0	12.0	7.0	9.2	0.0	0.0	0.0	0.1	0.0	0.0
26	13.6	10.9	12.4	7.3	5.6	6.5	0.0	0.0	0.0	0.0	0.0	0.0
27	14.6	13.3	13.9	7.8	6.7	7.3	0.0	0.0	0.0	0.2	0.0	0.0
28	15.6	13.6	14.7	7.8	6.3	7.5	0.0	0.0	0.0	0.0	0.0	0.0
29	17.8	15.2	16.4	6.3	5.5	6.0	0.2	0.0	0.0	0.0	0.0	0.0
30	18.7	17.1	17.7	9.3	6.3	7.0	4.8	0.1	1.3	0.4	0.0	0.1
31	17.1	14.3	15.3	---	---	---	6.0	4.7	5.4	0.5	0.0	0.2
MONTH	18.7	8.0	13.2	16.0	4.8	9.6	12.3	0.0	3.4	11.7	0.0	3.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.1	0.0	0.4	3.7	1.5	2.6	13.0	9.1	10.4	12.9	8.5	10.8
2	0.5	0.0	0.2	3.0	0.1	1.5	9.1	7.1	7.9	11.6	9.6	10.8
3	3.0	0.5	1.6	2.8	0.0	1.2	11.5	5.6	8.4	12.7	8.5	10.7
4	3.2	0.7	2.0	4.2	0.7	2.2	13.8	7.9	10.8	14.3	8.6	11.5
5	4.0	1.3	2.7	4.5	3.4	3.8	16.4	10.3	13.2	15.9	9.9	12.9
6	4.5	2.2	3.4	7.4	2.5	5.0	16.6	12.0	14.4	17.2	11.5	14.5
7	5.1	3.7	4.3	8.7	5.5	7.0	17.3	14.3	15.6	18.9	12.7	15.8
8	7.9	5.1	6.8	7.1	3.0	4.8	18.2	13.7	15.9	20.6	15.3	17.9
9	7.7	5.6	6.7	4.1	0.8	2.6	18.2	12.2	15.3	21.3	16.9	19.3
10	5.6	2.7	4.0	2.9	0.8	2.0	19.2	13.0	16.1	21.3	18.4	20.0
11	2.7	1.0	1.9	3.0	1.7	2.3	20.9	15.9	18.2	22.7	18.4	20.6
12	4.6	1.0	2.7	4.7	1.8	3.1	19.6	15.7	17.1	22.2	18.9	20.2
13	5.7	3.5	4.2	4.2	2.5	3.4	15.7	12.9	14.4	21.6	16.8	19.1
14	7.6	5.7	6.8	5.7	1.0	3.4	16.3	10.1	13.1	21.0	19.0	20.0
15	8.3	4.5	6.5	6.5	1.9	4.3	17.2	11.0	14.1	19.0	16.3	17.4
16	8.2	6.0	7.4	6.4	3.9	5.2	18.0	11.4	14.7	16.5	14.9	15.5
17	6.0	3.3	4.4	8.6	3.9	6.1	18.5	11.8	15.2	17.0	12.8	14.9
18	3.8	2.0	2.8	9.2	4.0	6.7	20.2	14.4	17.3	18.7	14.1	16.3
19	3.2	0.2	1.8	7.7	6.2	6.7	20.5	15.7	18.2	17.9	15.9	17.1
20	4.7	2.6	3.2	8.5	5.3	6.7	20.9	15.9	18.6	17.8	15.3	16.4
21	7.1	4.7	6.1	8.4	4.3	6.4	20.0	15.7	17.5	19.0	15.1	17.1
22	6.8	5.6	6.2	6.9	4.5	5.9	17.2	14.3	15.4	18.3	15.8	16.9
23	6.2	4.6	5.4	6.3	5.5	6.0	15.0	9.1	11.6	19.2	15.8	17.6
24	5.1	3.0	3.9	8.3	4.7	6.3	9.1	7.1	7.9	18.3	16.4	17.2
25	3.5	0.7	2.3	8.6	6.6	7.6	13.1	6.9	9.8	17.3	15.1	16.3
26	5.2	1.6	3.3	9.4	7.4	8.3	12.4	10.6	11.8	18.7	14.7	16.8
27	5.8	2.3	4.1	8.5	7.1	7.5	11.2	8.3	10.1	20.1	16.9	18.5
28	5.2	3.7	4.5	8.2	7.1	7.6	11.5	8.5	10.2	19.3	17.3	18.4
29	---	---	---	12.0	5.4	8.5	11.3	10.5	10.9	19.6	16.4	18.1
30	---	---	---	13.5	7.5	10.7	12.0	10.8	11.4	18.9	16.6	17.4
31	---	---	---	15.4	12.1	13.5	---	---	---	19.0	15.5	17.1
MONTH	8.3	0.0	3.9	15.4	0.0	5.4	20.9	5.6	13.5	22.7	8.5	16.6





## 03254480 CRUISES CREEK AT HIGHWAY 17 NEAR PINER, 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	7.3	4.0	5.4	8.1	6.6	7.2	7.6	6.8	7.3	11.7	11.3	11.6
2	6.3	3.7	4.7	7.1	6.4	6.7	9.2	7.6	8.5	11.8	10.5	11.4
3	7.6	4.3	5.2	7.4	6.7	7.1	9.7	8.4	9.0	11.3	10.4	10.9
4	8.1	4.8	5.7	7.2	6.9	7.1	10.6	9.0	9.9	11.4	10.3	10.9
5	8.6	5.2	6.1	8.6	7.1	7.9	---	---	---	11.5	9.7	11.0
6	8.5	5.4	6.4	8.7	7.7	8.2	---	---	---	11.8	11.3	11.5
7	9.0	5.8	7.0	8.6	7.4	7.9	---	---	---	12.1	11.6	11.9
8	9.1	5.9	7.1	8.6	7.3	7.9	---	---	---	11.9	11.6	11.7
9	8.8	5.4	6.8	9.2	7.8	8.4	---	---	---	12.1	11.4	11.7
10	8.3	5.0	5.9	9.1	7.8	8.4	---	---	---	11.9	11.2	11.6
11	8.1	5.1	6.1	8.3	7.2	7.5	11.9	10.3	11.0	11.3	10.3	11.0
12	8.1	5.1	6.1	8.0	6.9	7.3	12.8	11.0	11.6	---	---	---
13	5.1	3.1	4.0	7.9	7.1	7.6	13.6	10.9	12.1	---	---	---
14	5.5	2.6	3.6	9.8	7.4	8.5	14.7	12.3	13.4	---	---	---
15	4.6	2.2	3.5	9.8	8.4	9.2	15.2	13.3	14.1	---	---	---
16	4.9	1.9	3.1	9.2	8.1	8.6	15.5	14.0	14.5	---	---	---
17	5.5	3.5	4.1	8.5	7.5	8.0	15.4	13.7	14.3	---	---	---
18	7.4	3.9	5.4	8.7	7.1	7.7	15.5	13.6	14.3	---	---	---
19	7.6	6.6	7.1	7.8	6.8	7.1	15.2	12.9	14.0	---	---	---
20	7.5	6.3	6.7	7.4	6.8	7.0	16.8	14.3	15.3	---	---	---
21	7.6	6.3	6.8	7.5	6.8	7.0	16.2	14.1	15.1	14.8	14.3	14.6
22	7.5	6.3	6.7	7.6	6.9	7.2	14.8	13.4	14.0	14.6	14.3	14.5
23	7.6	6.2	6.6	7.6	6.8	7.1	15.3	13.5	14.2	15.1	14.5	14.8
24	7.8	5.9	6.3	6.9	6.2	6.5	15.8	13.7	14.6	15.1	14.6	14.9
25	9.6	5.9	6.9	7.7	6.4	7.2	16.7	13.9	15.0	14.9	14.3	14.6
26	9.8	6.1	7.7	8.6	7.6	8.1	16.3	13.6	14.8	14.7	14.2	14.4
27	8.2	7.6	8.0	8.1	7.2	7.6	17.2	14.0	15.3	15.4	14.5	15.0
28	9.3	7.2	8.1	7.8	7.1	7.4	17.6	14.2	15.5	15.6	15.0	15.3
29	7.5	6.4	7.0	8.5	7.4	7.9	16.8	13.6	14.7	15.0	14.6	14.8
30	7.0	5.9	6.3	7.7	6.9	7.4	13.9	12.4	13.2	14.9	14.4	14.6
31	8.0	6.1	7.0	---	---	---	12.5	11.6	12.1	15.1	14.3	14.7
MONTH	9.8	1.9	6.0	9.8	6.2	7.6						
	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.0	14.2	14.5	17.9	12.4	14.8	12.2	9.3	10.7	14.1	9.7	11.7
2	14.9	14.2	14.5	18.8	13.7	15.8	12.2	10.5	11.4	14.2	9.4	11.6
3	14.5	13.4	14.0	18.2	14.1	15.7	13.7	10.5	12.1	---	---	---
4	14.9	13.4	14.2	18.5	13.4	15.4	14.1	10.1	11.7	13.1	8.8	10.8
5	15.0	13.3	14.0	17.4	11.9	14.2	14.6	9.6	11.6	12.1	8.3	10.0
6	15.0	13.0	13.9	18.5	12.2	14.7	15.2	9.0	11.4	10.9	7.6	9.1
7	14.2	12.6	13.2	16.8	11.0	12.9	14.3	8.4	10.6	9.9	6.9	8.3
8	12.6	11.6	12.1	13.9	11.0	12.4	14.0	8.3	10.7	8.8	6.2	7.4
9	12.9	11.7	12.2	16.5	12.6	14.3	14.0	8.7	10.6	7.9	5.3	6.6
10	14.8	12.3	13.5	16.9	12.7	14.5	13.2	8.4	10.4	7.1	4.8	5.9
11	15.9	13.6	14.6	16.4	12.7	14.2	12.7	7.9	9.8	6.8	4.6	5.8
12	15.6	13.1	14.4	16.9	12.6	14.3	10.2	7.3	8.5	6.4	4.0	5.1
13	14.4	12.2	13.2	17.4	12.1	14.3	10.8	8.2	9.3	7.3	5.2	6.1
14	12.2	11.5	11.8	17.7	12.6	14.7	12.9	9.1	10.7	6.2	4.6	5.4
15	14.1	11.1	12.6	17.5	12.1	14.4	12.8	8.5	10.4	7.6	5.0	6.3
16	14.7	11.1	12.5	17.4	11.3	13.9	12.0	8.5	10.0	8.2	6.2	7.2
17	15.9	12.0	13.7	16.7	11.2	13.6	---	---	---	8.6	7.0	7.7
18	16.9	13.1	14.6	15.6	10.7	12.9	---	---	---	8.0	6.5	7.3
19	17.8	13.6	15.3	13.0	10.1	11.4	---	---	---	7.4	5.8	6.6
20	15.4	12.6	13.9	15.3	10.5	12.5	10.0	6.3	8.0	7.6	6.5	7.1
21	16.3	11.6	13.3	14.9	10.7	12.6	8.4	5.9	7.1	7.7	6.3	6.9
22	17.8	11.5	13.9	14.6	10.7	12.3	10.1	6.9	8.0	7.4	5.8	6.5
23	18.8	11.9	14.6	11.4	10.7	11.0	9.5	7.4	8.6	7.4	5.8	6.6
24	18.4	12.2	14.7	13.9	10.5	12.0	11.7	9.5	10.6	7.0	5.8	6.4
25	19.4	13.3	15.8	13.2	9.9	11.2	12.3	9.2	10.9	7.5	6.1	6.8
26	19.2	13.3	15.7	14.4	9.6	11.5	10.8	8.5	9.4	7.7	6.5	7.1
27	18.3	12.7	15.2	12.5	9.8	10.9	11.1	9.1	10.0	7.4	6.1	6.8
28	15.8	11.7	13.4	11.7	10.9	11.2	13.2	9.3	10.9	7.2	5.8	6.5
29	---	---	---	12.1	9.9	11.2	11.9	9.2	10.3	7.5	5.5	6.5
30	---	---	---	11.7	9.4	10.8	13.7	9.0	10.9	7.1	5.7	6.1
31	---	---	---	11.4	9.3	10.1	---	---	---	7.6	5.7	6.7
MONTH	19.4	11.1	13.9	18.8	9.3	13.1				14.2	4.0	7.3

## LICKING RIVER BASIN

03254480 CRUISES CREEK AT HIGHWAY 17 NEAR PINER, KY—Continued

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.2	5.8	6.4	6.2	3.4	4.8	---	---	---	---	---	---
2	6.2	5.1	5.5	5.3	4.3	4.7	---	---	---	---	---	---
3	6.3	4.6	5.5	5.3	3.9	4.6	---	---	---	---	---	---
4	6.0	5.1	5.6	6.5	4.0	5.0	---	---	---	---	---	---
5	6.9	4.8	5.6	6.4	4.0	5.0	---	---	---	---	---	---
6	6.8	5.1	5.8	6.4	3.7	5.0	---	---	---	---	---	---
7	6.3	4.6	5.5	8.5	4.3	6.2	---	---	---	---	---	---
8	6.4	4.1	5.1	9.9	4.9	7.2	---	---	---	---	---	---
9	6.5	3.9	4.9	10.1	5.3	7.7	---	---	---	---	---	---
10	6.4	3.5	4.6	9.6	5.2	7.4	---	---	---	---	---	---
11	4.5	3.1	3.8	7.8	5.1	6.5	---	---	---	---	---	---
12	5.3	3.1	4.1	6.1	4.1	5.0	---	---	---	---	---	---
13	4.9	4.1	4.4	5.1	3.8	4.3	---	---	---	---	---	---
14	---	---	---	6.0	4.2	5.0	---	---	---	---	---	---
15	---	---	---	6.5	4.5	5.4	---	---	---	---	---	---
16	---	---	---	5.7	4.7	5.2	---	---	---	---	---	---
17	---	---	---	6.0	4.4	5.2	---	---	---	7.7	3.4	5.2
18	---	---	---	6.8	4.6	5.6	---	---	---	8.0	4.0	5.9
19	---	---	---	7.2	4.8	6.0	---	---	---	7.6	4.1	5.8
20	---	---	---	7.6	4.9	5.8	---	---	---	7.3	4.4	5.8
21	---	---	---	6.3	5.3	5.7	---	---	---	6.4	3.6	5.2
22	12.1	7.0	9.0	6.2	4.5	5.4	---	---	---	6.3	4.3	5.3
23	9.3	5.9	7.4	7.4	5.0	6.0	---	---	---	6.5	4.7	5.4
24	8.7	4.9	6.7	8.1	5.4	6.7	---	---	---	6.6	4.3	5.1
25	8.9	4.6	6.8	9.7	6.1	7.7	---	---	---	5.4	3.7	4.4
26	9.4	4.4	6.6	12.1	6.6	8.4	---	---	---	5.4	3.8	4.4
27	7.6	4.4	5.9	---	---	---	---	---	---	4.8	3.8	4.2
28	7.4	3.9	5.5	---	---	---	---	---	---	6.0	4.2	5.0
29	7.6	3.5	5.4	---	---	---	---	---	---	6.2	4.7	5.4
30	9.2	3.7	5.8	---	---	---	---	---	---	6.9	5.0	5.8
31	---	---	---	---	---	---	---	---	---	---	---	---

MONTH

YEAR





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## 03254550 BANKLICK CREEK AT HIGHWAY 1829 NEAR ERLANGER, KY

LOCATION.--Lat 38°58'34", long 84°32'40", Kenton County, Hydrologic Unit 05100101, at bridge on Highway 1829, 2.5 mi below Brushy Fork, 4.6 mi southeast of Erlanger, and at mile 8.2.

DRAINAGE AREA.--22.0 mi<sup>2</sup>.

## WATER DISCHARGE RECORDS

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

REVISIONS.--WDR KY-01-1: Drainage area.

GAGE.--Water-stage recorder with telemetry and crest-stage gage. Datum of gage is 540.33 ft above NGVD of 1929.

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

COOPERATION.--Northern Kentucky Sanitation District No. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	16	192	166	25	24	35	14	1.8	73	0.26	20
2	4.3	120	54	72	27	14	84	12	1.6	5.9	0.27	7.5
3	4.2	80	35	867	26	13	55	10	1.6	2.5	0.24	3.7
4	4.1	100	26	354	29	12	39	9.2	1.6	1.6	0.23	2.6
5	3.9	47	21	1,050	31	13	31	8.2	1.3	1.3	0.25	1.9
6	3.5	28	32	726	33	11	26	7.6	1.0	0.94	0.34	1.5
7	3.5	20	92	98	39	15	27	6.9	0.96	0.98	0.23	1.2
8	3.5	15	48	161	207	37	22	6.0	0.89	0.79	0.16	1.1
9	3.6	13	82	71	70	17	19	5.4	0.75	0.60	0.16	1.00
10	3.3	11	78	47	48	14	17	5.2	1.7	0.44	0.12	0.86
11	2.9	165	55	100	30	14	15	4.4	2.0	0.37	0.10	0.76
12	3.5	411	43	92	24	14	15	5.5	8.5	0.36	0.05	0.69
13	9.4	56	30	271	38	12	18	4.8	36	6.8	0.01	0.61
14	17	31	23	159	128	10	14	12	19	16	0.04	0.56
15	31	23	20	58	61	9.5	12	9.9	14	46	0.02	0.44
16	25	19	18	40	40	9.0	11	5.2	4.5	6.0	0.01	0.65
17	13	17	16	e24	27	8.7	10	3.9	2.5	3.5	0.00	1.8
18	668	15	15	e21	21	8.0	9.9	3.2	1.7	3.5	0.00	1.2
19	241	315	13	e17	17	10	9.3	9.8	1.3	3.1	0.27	0.79
20	45	76	11	e20	17	12	8.6	20	1.1	23	0.12	9.1
21	25	38	11	e12	20	8.8	8.1	6.6	0.86	13	0.11	3.0
22	16	28	28	e10	15	9.6	13	4.3	0.73	7.2	0.05	1.2
23	34	23	66	e8.6	13	43	178	3.3	0.62	4.2	0.05	0.75
24	63	100	34	e7.0	16	24	62	2.4	0.52	2.2	0.44	0.54
25	23	56	21	e7.0	13	26	31	2.1	0.46	1.4	0.37	0.49
26	16	33	19	e7.0	13	19	57	1.9	0.39	1.2	43	5.2
27	96	29	14	e7.0	11	20	61	1.7	0.33	0.93	7.9	3.4
28	32	47	14	e7.0	18	1,360	26	2.5	0.30	0.71	2.5	1.3
29	21	29	38	e10	---	123	20	4.2	0.51	0.55	1.5	4.2
30	22	44	398	e14	---	66	18	2.5	0.61	0.43	437	2.5
31	18	---	606	e17	---	45	---	2.1	---	0.34	137	---
TOTAL	1,460.2	2,005	2,153	4,520.6	1,057	2,021.6	951.9	196.8	109.13	228.84	632.80	80.54
MEAN	47.1	66.8	69.5	146	37.8	65.2	31.7	6.35	3.64	7.38	20.4	2.68
MAX	668	411	606	1,050	207	1,360	178	20	36	73	437	20
MIN	2.9	11	11	7.0	11	8.0	8.1	1.7	0.30	0.34	0.00	0.44

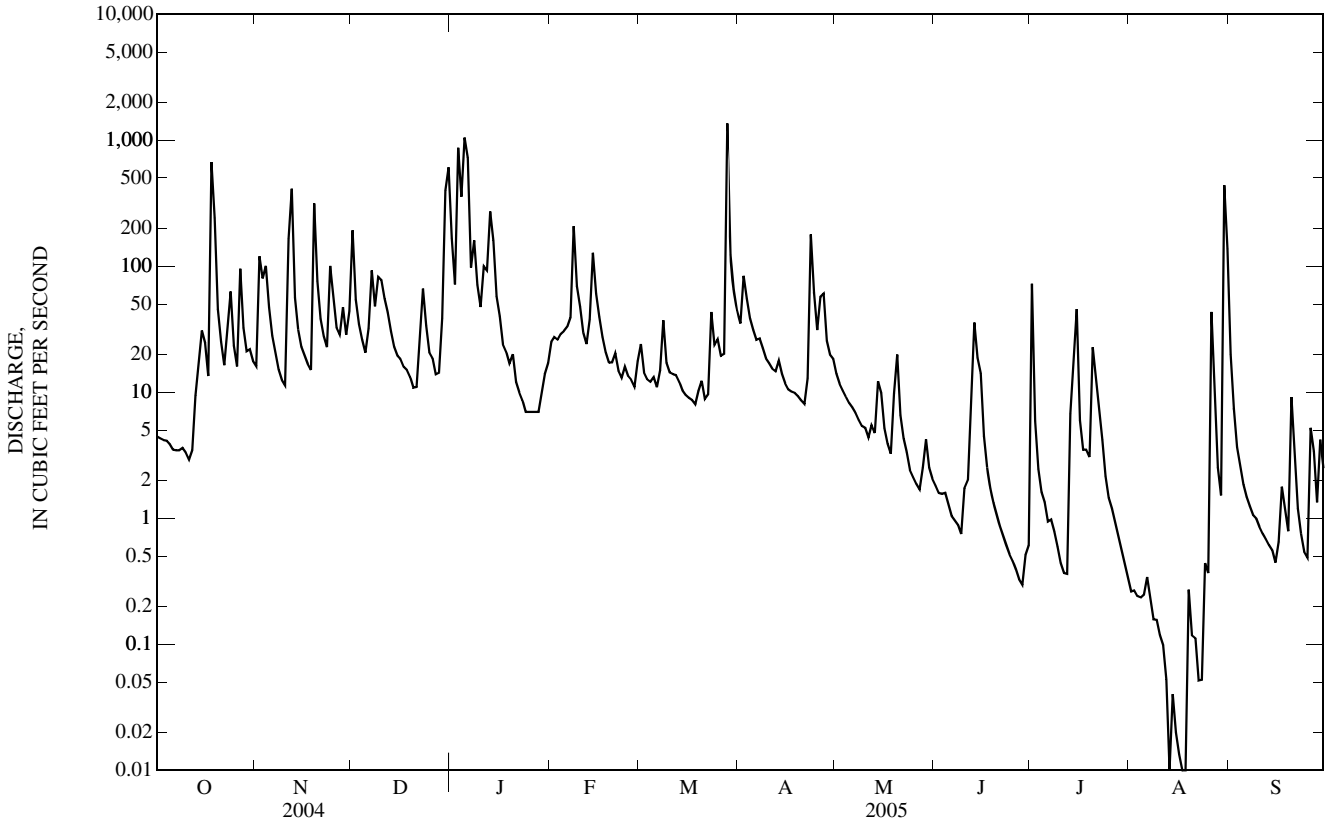
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	24.0	34.7	59.9	72.1	67.2	49.6	43.4	46.8	16.8	16.0	17.3	14.5
MAX	66.4	66.8	92.6	146	143	74.3	110	150	41.1	40.8	48.4	50.1
(WY)	(2002)	(2005)	(2003)	(2005)	(2000)	(2002)	(2002)	(2002)	(2001)	(2004)	(2003)	(2003)
MIN	1.65	1.27	10.5	21.3	33.0	21.4	6.62	5.10	2.71	2.59	0.21	0.07
(WY)	(2000)	(2000)	(2000)	(2001)	(2002)	(2001)	(2001)	(1999)	(1999)	(2002)	(2002)	(1999)

03254550 BANKLICK CREEK AT HIGHWAY 1829 NEAR ERLANGER, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	18,287.33		15,417.41		40.0	
ANNUAL MEAN	50.0		42.2		54.8	
HIGHEST ANNUAL MEAN					2002	
LOWEST ANNUAL MEAN					2001	
HIGHEST DAILY MEAN	1,830	Jan 4	1,360	Mar 28	2,130	Feb 18, 2000
LOWEST DAILY MEAN	0.47	Jul 1	0.00	Aug 17	0.00	Sep 21, 1999
ANNUAL SEVEN-DAY MINIMUM	0.56	Jun 26	0.02	Aug 12	0.00	Sep 21, 1999
MAXIMUM PEAK FLOW			5,360	Mar 28	9,570	Apr 21, 2002
MAXIMUM PEAK STAGE			9.35	Mar 28	10.65	Apr 21, 2002
10 PERCENT EXCEEDS	88		74		72	
50 PERCENT EXCEEDS	22		12		12	
90 PERCENT EXCEEDS	2.7		0.50		0.79	

e Estimated





## WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 2000 to current year.

COOPERATION.--Northern Kentucky Sanitation District No. 1.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 2000 to current year.

pH: December 2000 to current year.

WATER TEMPERATURES: December 2000 to current year.

DISSOLVED OXYGEN: December 2000 to current year.

TURBIDITY: December 2000 to current year.

INSTRUMENTATION.--Water-quality monitor with telemetry. New turbidity probe installed summer 2004, range 0-3000 FNU.

RECORDS.--

SPECIFIC CONDUCTANCE: Records rated excellent. Hydrolab pipe out of water due to low flow conditions May 25-27, May 31 to June 14, and June 18-21, 2005.

pH: Records rated excellent. Hydrolab pipe out of water due to low flow conditions May 25-27, May 31 to June 14, and June 18-21, 2005.

WATER TEMPERATURES: Records rated excellent. Hydrolab pipe out of water due to low flow conditions May 25-27, May 31 to June 14, and June 18-21, 2005.

DISSOLVED OXYGEN: Records rated fair. Hydrolab pipe out of water due to low flow conditions May 25-27, May 31 to June 14, and June 18-21, 2005.

TURBIDITY: Records rated fair. Hydrolab pipe out of water due to low flow conditions May 25-27, May 31 to June 14, and June 18-21, 2005.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1640 microsiemens, Jan. 30, 2005; minimum recorded, 124 microsiemens, Dec. 19, 2002.

pH: Maximum recorded, 8.9 units, Mar. 16, 2003; minimum recorded, 7.3 units, Jul. 2, 2003.

WATER TEMPERATURES: Maximum recorded, 33.6°C, July 25, 2005; minimum recorded, 0.0°C, several days in Dec., Jan., Feb., and Mar., of each year of record.

DISSOLVED OXYGEN: Maximum recorded, greater than 20 mg/L, Feb. 28, 2001; minimum recorded, 2.5 mg/L, Jun. 4, 2002.

TURBIDITY: Maximum recorded, 2700 FNU, Jul. 30-31, 2004; minimum recorded, <2.0 FNU, Jan. 22, 25-29, 2003, and Mar. 13, 2003.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1640 microsiemens, Jan. 30, 2005; minimum recorded, 168 microsiemens, Oct. 18, 2004, and Mar. 28, 2005.

pH: Maximum recorded, 8.8 units, Apr. 25, May 1, 3, and 28, 2005; minimum recorded, 7.4 units, June 29, 2005.

WATER TEMPERATURES: Maximum recorded, 33.6°C, July 25, 2005; minimum recorded, 0.0°C, several days in Dec. 2004, and Jan., Feb., and Mar., 2005.

DISSOLVED OXYGEN: Maximum recorded, 17.0 mg/L, Dec. 20, 2004; minimum recorded, 4.5 mg/L, June 30, and Aug. 13-14, 2005.

TURBIDITY: Maximum recorded, 2600 FNU, July 1, 20, 2005; minimum recorded, <2.0 FNU, May 3-4, 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	774	736	757	607	582	595	440	322	371	424	327	385
2	760	743	750	599	386	510	518	426	474	475	405	447
3	758	732	753	498	396	448	547	518	529	496	187	345
4	770	712	750	518	426	462	563	542	551	397	253	354
5	796	749	780	521	440	485	572	549	563	283	191	242
6	807	782	799	558	520	538	576	535	557	368	186	268
7	820	760	811	574	553	563	555	400	469	468	368	422
8	825	809	816	585	561	576	506	414	466	469	334	383
9	817	804	812	595	571	585	530	378	488	481	412	453
10	821	767	812	602	571	589	485	378	433	514	478	497
11	827	820	824	608	248	541	506	485	499	517	389	469
12	830	791	822	407	229	319	524	501	509	470	357	417
13	851	721	795	478	407	446	539	520	529	498	245	432
14	729	657	665	520	478	496	553	531	542	442	255	372
15	657	568	612	541	517	526	563	542	551	489	442	470
16	571	535	552	553	534	544	574	543	562	545	489	510
17	614	565	597	577	552	562	575	551	565	660	533	617
18	619	168	422	593	557	577	577	546	563	654	589	621
19	403	205	326	580	251	378	580	547	565	590	563	577
20	481	307	450	466	372	425	636	571	608	629	556	578
21	525	480	504	507	466	487	647	597	622	940	593	737
22	558	523	541	529	507	518	725	602	644	1,030	861	944
23	570	421	543	544	527	534	710	630	660	1,080	1,000	1,040
24	487	411	447	548	386	466	649	632	641	1,070	886	998
25	558	486	526	486	397	441	665	633	649	886	808	850
26	604	556	576	524	486	504	641	615	631	856	803	828
27	613	400	443	535	522	528	647	627	638	857	774	821
28	544	463	506	524	481	494	667	647	657	866	760	804
29	584	532	563	529	503	513	1,580	662	963	1,280	723	923
30	609	578	589	539	440	527	1,360	327	693	1,640	1,180	1,450
31	602	555	580	---	---	---	327	286	300	1,500	1,020	1,310
MONTH	851	168	636	608	229	506	1,580	286	564	1,640	186	631





03254550 BANKLICK CREEK AT HIGHWAY 1829 NEAR ERLANGER, 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	19.9	14.7	17.0	15.6	13.8	14.5	9.4	6.6	8.2	6.7	5.5	6.1
2	18.0	16.2	17.4	16.8	15.0	15.8	6.7	5.2	5.9	8.4	6.2	7.2
3	18.5	13.5	15.7	15.5	12.5	13.5	6.1	4.3	5.1	9.9	8.4	9.4
4	19.5	13.1	15.5	13.3	12.1	12.7	5.6	2.7	4.1	9.9	8.7	9.3
5	18.2	12.7	15.0	12.1	9.5	10.8	5.9	3.3	4.7	8.7	7.0	8.0
6	18.4	11.8	14.5	11.9	8.1	9.8	9.1	5.7	7.5	7.0	5.3	6.4
7	17.8	11.8	14.1	13.0	8.9	10.8	12.2	9.1	10.9	5.4	4.6	5.0
8	17.3	12.7	14.8	10.7	7.7	9.4	11.0	7.9	9.6	5.7	5.3	5.5
9	19.2	14.7	16.5	9.1	5.8	7.3	8.9	7.0	7.8	7.0	5.3	5.9
10	19.6	14.7	16.7	9.4	5.3	7.3	10.0	8.9	9.5	6.8	5.6	6.3
11	17.9	13.6	15.4	10.2	7.2	8.3	9.2	6.7	8.0	10.0	6.5	7.8
12	15.3	13.1	14.3	10.9	9.1	10.1	6.9	5.8	6.4	11.7	10.0	10.9
13	14.3	13.2	13.8	9.1	6.4	7.7	6.5	3.0	5.0	12.1	9.2	11.3
14	16.2	13.9	14.9	7.6	4.7	6.1	3.1	1.7	2.5	9.2	4.8	6.9
15	15.3	11.2	12.8	7.6	4.2	5.9	1.8	0.1	0.9	4.8	3.1	3.9
16	11.8	10.2	11.1	8.8	6.6	7.7	1.6	0.0	0.6	3.3	0.5	2.2
17	11.4	7.6	9.6	10.5	8.7	9.6	2.5	0.3	1.3	0.5	0.0	0.0
18	12.5	8.2	9.8	12.9	10.5	11.6	3.1	0.0	1.4	0.0	0.0	0.0
19	13.4	12.5	12.9	13.0	12.3	12.7	2.8	0.0	1.4	0.0	0.0	0.0
20	14.3	13.4	13.8	13.3	12.3	12.7	0.1	0.0	0.0	0.1	0.0	0.0
21	14.7	13.8	14.2	12.4	11.3	11.9	0.3	0.0	0.0	0.1	0.0	0.0
22	14.2	12.9	13.5	11.5	11.0	11.2	0.0	0.0	0.0	0.2	0.0	0.0
23	14.5	11.9	13.0	11.8	10.6	11.2	0.0	0.0	0.0	0.0	0.0	0.0
24	16.5	13.8	14.8	13.1	11.7	12.3	0.0	0.0	0.0	0.0	0.0	0.0
25	15.7	11.6	13.6	12.2	6.7	9.3	0.0	0.0	0.0	0.1	0.0	0.0
26	14.6	11.3	13.2	7.8	5.7	6.8	0.0	0.0	0.0	0.0	0.0	0.0
27	15.0	14.0	14.5	8.2	6.6	7.4	0.0	0.0	0.0	0.0	0.0	0.0
28	16.9	13.8	15.1	8.0	6.2	7.5	0.0	0.0	0.0	0.0	0.0	0.0
29	18.7	15.6	16.9	6.9	5.7	6.3	0.0	0.0	0.0	0.0	0.0	0.0
30	19.7	16.7	17.9	8.9	6.5	7.1	3.5	0.0	0.5	0.1	0.0	0.0
31	16.7	14.3	15.4	---	---	---	5.5	3.5	4.6	0.3	0.0	0.0
MONTH	19.9	7.6	14.4	16.8	4.2	9.8	12.2	0.0	3.4	12.1	0.0	3.6
	FEBRUARY			MARCH			APRIL			MAY		
1	1.1	0.0	0.3	3.8	1.4	2.7	12.7	9.8	11.0	14.6	8.3	11.4
2	0.6	0.0	0.2	4.5	0.0	1.6	9.8	7.1	8.2	12.9	9.3	11.2
3	2.4	0.4	1.1	3.9	0.0	1.4	12.6	5.7	8.7	14.6	7.9	11.2
4	3.8	0.4	1.7	5.2	0.2	2.4	15.5	7.6	11.2	17.0	8.2	12.1
5	4.8	0.9	2.5	5.1	2.9	3.8	18.1	10.2	13.8	19.3	9.4	13.9
6	5.0	1.9	3.4	9.3	2.2	5.4	18.1	12.0	15.0	20.4	10.9	15.3
7	5.3	3.7	4.4	9.8	5.4	7.4	18.0	14.4	16.0	22.0	12.3	16.8
8	7.5	5.3	6.6	7.9	3.0	5.4	19.6	13.2	16.0	24.4	15.3	19.3
9	7.3	5.3	6.6	4.9	0.7	2.7	20.3	11.7	15.6	24.6	16.5	20.4
10	5.3	2.1	3.8	3.4	0.3	2.0	22.0	13.1	17.1	25.1	18.3	21.3
11	3.4	1.0	1.9	3.2	1.9	2.4	22.4	16.2	18.9	26.6	18.4	22.2
12	5.8	0.8	2.9	5.0	1.4	3.1	19.4	15.5	16.8	23.2	18.7	20.7
13	5.5	3.1	4.1	4.4	1.9	3.3	16.0	12.9	14.5	25.5	16.2	20.5
14	7.5	5.5	6.8	7.6	0.6	3.8	18.5	9.8	13.7	22.2	18.4	20.2
15	9.4	5.0	6.9	8.6	1.8	4.9	19.5	10.6	14.7	19.3	15.5	17.4
16	8.8	5.9	7.6	7.8	3.7	5.5	20.5	11.1	15.4	18.1	14.4	16.0
17	6.5	2.9	4.7	10.5	3.8	6.7	21.0	12.1	16.3	21.0	12.1	16.3
18	5.3	2.0	3.2	11.6	3.9	7.4	22.9	14.3	18.1	24.5	10.0	16.6
19	4.6	0.1	2.3	8.1	6.5	7.1	22.5	15.4	18.7	18.8	13.7	16.9
20	5.2	2.9	3.6	9.5	5.7	7.2	23.6	15.5	19.2	19.1	16.6	17.6
21	7.5	5.2	6.3	10.7	4.0	6.9	19.9	15.7	17.4	23.7	15.0	18.8
22	6.8	5.4	6.0	7.4	4.4	6.2	19.1	14.6	16.2	20.9	15.5	18.2
23	6.7	4.3	5.4	6.6	5.4	6.1	16.1	9.4	12.0	28.8	14.5	19.3
24	4.9	2.7	3.8	10.2	4.6	6.8	9.4	7.6	8.3	26.0	13.2	16.9
25	4.6	0.4	2.4	8.7	6.7	7.7	15.2	7.2	10.6	---	---	---
26	6.3	2.0	3.9	9.7	7.4	8.4	12.9	11.1	11.9	---	---	---
27	6.3	2.1	4.2	8.3	6.9	7.6	12.4	9.0	10.7	---	---	---
28	5.3	3.6	4.6	8.2	7.2	7.7	12.8	8.7	10.9	29.9	14.3	19.5
29	---	---	---	11.6	5.6	8.6	11.8	10.8	11.3	25.5	16.7	20.2
30	---	---	---	14.9	9.1	11.7	12.7	10.9	11.8	22.9	14.2	16.9
31	---	---	---	16.8	12.1	13.8	---	---	---	---	---	---
MONTH	9.4	0.0	4.0	16.8	0.0	5.7	23.6	5.7	14.0			



03254550 BANKLICK CREEK AT HIGHWAY 1829 NEAR ERLANGER, 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	9.5	7.2	7.9	9.9	7.5	8.3	10.7	9.7	10.2	11.4	10.5	10.9
2	7.7	6.9	7.3	7.9	7.3	7.5	12.2	10.6	11.4	11.1	9.8	10.6
3	9.9	6.9	7.9	8.5	7.6	8.2	12.9	11.3	12.0	10.7	9.4	10
4	10.2	7.7	8.5	8.5	8.1	8.3	13.9	11.7	12.7	10.8	9.8	10.2
5	10.4	7.9	8.8	9.6	8.4	9.0	13.9	11.5	12.5	11.1	10.2	10.6
6	11.2	8.3	9.1	10.4	8.7	9.4	12.3	10.4	11.3	11.5	10.6	10.9
7	11.8	8.4	9.4	10.4	8.4	9.3	---	---	---	11.8	10.9	11.4
8	10.4	8.5	9.2	11.6	8.7	9.9	---	---	---	11.4	10.9	11.2
9	10.2	8.2	8.9	12.4	9.7	10.7	11.5	10.3	10.8	11.6	10.7	11.2
10	10.3	7.9	8.8	12.9	9.4	10.9	10.5	9.8	10.1	11.2	10.3	10.9
11	10.2	7.9	8.8	11.9	9.4	10.1	11.5	10.0	10.7	10.7	9.4	10.2
12	9.7	8.0	8.8	9.7	9.0	9.3	12.8	10.7	11.4	9.5	8.6	9.1
13	8.0	6.9	7.3	10.7	9.4	10.1	13.4	10.7	11.9	9.8	8.4	8.9
14	9.5	7.3	8.1	11.6	10.2	10.8	14.8	12.1	13.1	11.3	9.7	10.6
15	8.7	7.2	8.1	12.1	10.2	11.0	15.3	12.7	13.8	12.6	11.3	12.0
16	9.5	8.6	9.0	11.5	9.5	10.3	15.7	12.7	14.0	13.6	12.1	12.8
17	10.8	8.6	9.5	10.9	9.0	9.7	15.4	12.7	13.7	14.6	13.6	14.3
18	10.6	8.8	9.3	11.4	8.3	9.5	15.7	11.9	13.6	14.7	13.9	14.3
19	9.9	8.9	9.2	8.9	8.3	8.5	15.6	11.9	13.5	14.2	13.6	13.8
20	9.1	8.5	8.8	8.8	8.3	8.5	17.0	13.4	14.6	14.3	13.4	13.9
21	8.9	8.3	8.6	9.4	8.6	8.9	16.8	13.0	14.3	14.4	13.9	14.1
22	8.9	8.3	8.6	10.0	8.9	9.2	14.6	13.1	13.6	14.1	13.7	13.9
23	9.0	7.8	8.5	10.3	8.9	9.4	15.1	13.2	13.8	14.8	14.0	14.3
24	9.1	7.8	8.4	8.9	8.4	8.7	15.6	13.4	14.1	14.7	14.0	14.3
25	9.8	8.5	9.0	10.5	8.7	9.8	16.2	13.0	14.1	14.6	14.0	14.2
26	10.0	8.3	9.1	11.7	10.3	10.9	15.7	13.1	14.0	14.4	13.9	14.1
27	8.9	8.5	8.8	11.6	10.0	10.6	16.2	13.4	14.3	15.1	14.1	14.6
28	9.2	8.0	8.6	11.2	10.0	10.6	16.5	13.3	14.3	15.3	14.2	14.7
29	8.7	7.1	7.9	12.2	10.6	11.2	16.3	13.3	14.1	14.7	14.1	14.3
30	8.5	6.9	7.4	11.6	9.9	10.7	14.0	12.0	13.4	14.6	14.0	14.2
31	9.8	7.1	8.2	---	---	---	12.4	11.0	11.7	14.9	13.8	14.3
MONTH	11.8	6.9	8.6	12.9	7.3	9.6				15.3	8.4	12.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.8	13.9	14.2	14.8	11.3	12.8	12.1	9.7	10.7	11.6	8.1	9.7
2	14.8	13.6	14.2	16.1	12.3	13.7	11.6	10.3	11.1	11.0	8.1	9.4
3	14.6	13.3	13.9	16.2	12.1	13.7	13.0	9.9	11.6	11.0	7.9	9.4
4	14.8	12.8	13.8	15.5	11.4	13.3	13.1	9.1	11.1	10.5	7.4	9.0
5	14.8	12.5	13.5	14.8	11.3	12.4	12.8	8.3	10.5	10.0	6.8	8.4
6	14.9	12.1	13.2	15.1	10.0	12.3	12.4	8.1	9.9	9.3	6.4	7.8
7	13.7	11.8	12.5	13.1	9.2	10.8	11.2	8.0	9.1	8.8	5.7	7.4
8	11.9	10.9	11.4	12.3	9.5	11.0	11.7	8.0	9.4	8.3	5.2	6.7
9	12.0	11.0	11.3	14.9	11.3	12.7	11.8	7.6	9.3	8.3	5.0	6.5
10	13.8	11.6	12.6	15.4	11.5	12.9	11.1	6.9	8.8	8.4	5.0	6.4
11	15.2	12.6	13.6	14.5	11.6	12.5	10.3	7.0	8.2	9.1	4.8	6.6
12	15.0	11.8	13.3	15.0	11.2	12.6	9.0	7.2	8.1	9.8	4.7	6.6
13	14.4	11.5	12.5	15.3	11.3	12.7	10.8	7.9	8.9	10.5	4.9	7.3
14	11.5	10.9	11.1	15.8	10.7	12.9	11.7	8.0	9.7	7.3	4.8	6.0
15	13.2	10.2	11.6	15.5	10.2	12.5	11.4	7.8	9.3	9.2	6.1	7.4
16	13.9	10.2	11.5	15.1	10.2	12.1	11.2	7.5	9.0	11.6	6.4	8.6
17	14.9	10.8	12.5	14.6	9.5	11.6	10.5	7.2	8.8	12.4	6.8	9.0
18	15.8	11.9	13.3	13.9	9.0	11.1	9.8	6.8	8.2	11.6	6.7	8.9
19	16.3	11.9	13.7	11.1	9.1	10.0	9.5	6.9	8.0	8.5	6.3	7.1
20	14.4	11.2	12.4	13.1	9.7	10.9	9.5	6.4	7.8	7.7	6.8	7.3
21	15.1	10.6	11.8	13.9	9.9	11.6	8.8	6.5	7.7	10.1	6.0	8.0
22	15.7	10.6	12.2	13.0	10.0	11.3	9.2	7.4	8.2	10.9	6.0	8.0
23	16.6	10.7	12.9	10.7	10.2	10.4	9.7	7.8	9.1	10.1	6.3	7.7
24	15.6	11.2	12.8	13.2	9.5	11.1	10.4	9.7	10.1	10.7	6.6	8.5
25	16.7	11.8	13.9	12.4	9.5	10.4	10.6	8.3	9.7	---	---	---
26	16.1	11.3	13.2	12.8	9.2	10.5	10.3	8.4	9.0	---	---	---
27	15.8	10.8	12.8	12.0	9.3	10.2	10.1	8.8	9.4	---	---	---
28	13.2	10.8	11.7	12.2	9.6	11.4	11.6	8.3	9.8	9.5	5.4	7.0
29	---	---	---	12.2	10.3	11.2	10.9	8.3	9.2	9.8	5.3	7.0
30	---	---	---	11.3	9.7	10.5	11.6	8.2	9.5	8.8	5.7	7.1
31	---	---	---	10.8	9.3	10.1	---	---	---	---	---	---
MONTH	16.7	10.2	12.8	16.2	9.0	11.7	13.1	6.4	9.3			



03254550 BANKLICK CREEK AT HIGHWAY 1829 NEAR ERLANGER, 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	79	27	50	65	17	21	---	---	---	170	74	110
2	87	27	45	1,200	18	230	---	---	---	110	47	64
3	59	26	39	210	42	93	---	---	---	2,300	46	690
4	58	26	40	640	38	180	---	---	---	1,260	140	280
5	71	29	40	120	32	60	---	---	---	1,530	220	490
6	50	22	37	46	16	23	---	---	---	1,330	140	310
7	61	24	35	26	11	16	---	---	---	140	71	97
8	55	21	37	22	8.0	11	---	---	---	520	84	180
9	68	22	36	12	5.0	7.2	1,100	16	190	90	56	66
10	100	24	52	9.0	4.0	4.8	460	51	130	65	46	53
11	79	34	50	1,500	3.0	230	160	34	48	1,030	46	320
12	79	34	50	1,400	87	310	130	24	39	500	73	180
13	160	44	93	100	40	67	32	13	18	1,300	61	350
14	99	41	63	50	23	32	18	12	14	550	88	180
15	390	50	180	40	13	18	18	10	13	91	53	69
16	300	94	160	33	10	13	13	9.3	11	57	41	46
17	110	51	72	51	7.0	12	11	7.5	9.1	89	34	40
18	2,500	42	820	28	8.0	10	13	7.8	9.4	---	---	---
19	1,300	130	300	2,200	9.9	410	---	---	---	---	---	---
20	140	71	100	180	48	84	---	---	---	---	---	---
21	91	40	63	73	26	44	---	---	---	---	---	---
22	68	26	37	62	16	24	58	8.7	28	---	---	---
23	2,500	16	230	48	14	19	52	17	26	---	---	---
24	1,300	94	320	820	16	240	---	---	---	---	---	---
25	---	---	---	150	42	85	---	---	---	---	---	---
26	---	---	---	54	28	39	---	---	---	---	---	---
27	1,600	48	390	140	20	39	---	---	---	---	---	---
28	89	39	58	260	57	110	---	---	---	---	---	---
29	67	24	33	96	30	43	---	---	---	---	---	---
30	91	23	36	500	24	70	1,190	68	420	---	---	---
31	47	21	30	---	---	---	450	160	290	---	---	---
MONTH				2,200	3.0	85						
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	53	16	24	11	3.0	5.5
2	---	---	---	---	---	---	120	47	78	23	2.0	7.8
3	---	---	---	---	---	---	78	26	47	39	<2.0	8.7
4	110	27	44	---	---	---	31	11	17	45	<2.0	14
5	130	25	45	---	---	---	29	9.1	12	30	5.0	13
6	63	30	38	---	---	---	53	12	24	19	4.0	6.3
7	190	27	46	---	---	---	29	7.8	10	17	5.0	7.4
8	1,310	98	380	260	63	92	21	7.7	9.7	13	6.0	8.1
9	110	51	72	63	15	28	26	8.5	12	120	8.0	16
10	76	31	46	---	---	---	22	5.5	8.6	85	9.0	27
11	---	---	---	---	---	---	16	5.3	7.5	88	9.0	24
12	---	---	---	---	---	---	14	5.1	6.5	74	11	24
13	150	18	48	---	---	---	53	5.0	7.8	2,100	9.0	250
14	1,490	86	310	---	---	---	32	2.9	6.0	140	10	47
15	170	46	77	---	---	---	32	2.8	6.2	57	22	37
16	65	31	42	---	---	---	25	3.7	5.8	620	11	77
17	---	---	---	---	---	---	22	3.5	5.7	36	8.0	15
18	---	---	---	---	---	---	15	3.4	6.6	27	8.0	12
19	---	---	---	---	---	---	72	5.3	9.4	710	10	160
20	---	---	---	---	---	---	20	5.1	8.5	970	260	400
21	---	---	---	12	7.0	7.5	25	3.2	10	660	42	140
22	---	---	---	91	5.9	9.5	300	3.1	22	96	21	35
23	---	---	---	410	56	150	2,010	180	630	81	18	27
24	---	---	---	56	14	25	200	49	94	47	19	28
25	---	---	---	58	11	17	160	20	38	---	---	---
26	---	---	---	64	14	23	980	10	150	---	---	---
27	---	---	---	120	8.3	30	630	35	160	---	---	---
28	---	---	---	2,570	120	1,020	35	7.0	17	---	---	---
29	---	---	---	240	78	150	9.0	3.0	5.2	36	13	22
30	---	---	---	120	44	67	7.0	3.0	4.8	70	13	19
31	---	---	---	55	28	37	---	---	---	---	---	---
MONTH							2,010	2.8	48			



## LICKING RIVER BASIN

03254550 BANKLICK CREEK AT HIGHWAY 1829 NEAR ERLANGER, 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	---	---	---	2,600	53	1,300	---	---	---	180	83	120
2	---	---	---	900	200	410	---	---	---	140	64	89
3	---	---	---	260	95	170	---	---	---	93	46	66
4	---	---	---	200	55	110	---	---	---	70	36	49
5	---	---	---	220	48	85	91	---	---	69	25	38
6	---	---	---	190	39	68	97	67	76	---	---	---
7	---	---	---	200	32	66	---	---	---	89	23	44
8	---	---	---	130	31	61	---	---	---	---	---	---
9	---	---	---	88	26	50	---	---	---	---	---	---
10	---	---	---	73	29	46	93	56	70	60	18	31
11	---	---	---	100	18	38	97	48	64	81	19	33
12	---	---	---	86	21	32	110	56	71	52	16	31
13	---	---	---	200	24	83	88	53	69	44	17	28
14	---	---	---	660	120	310	94	58	73	94	20	34
15	---	---	---	2,400	14	970	87	59	72	74	11	26
16	400	180	260	750	140	310	93	60	70	100	14	37
17	210	84	150	360	72	140	94	57	71	110	24	48
18	---	---	---	110	36	69	130	71	96	29	14	19
19	---	---	---	88	20	48	300	78	160	40	16	22
20	---	---	---	2,600	32	560	---	---	---	1,200	22	270
21	---	---	---	2,500	470	1,400	---	---	---	160	62	99
22	130	55	79	660	160	270	120	60	76	100	42	61
23	140	42	78	180	73	120	220	64	110	72	27	45
24	96	32	53	510	49	120	110	57	75	50	27	36
25	71	30	49	1,100	57	270	99	50	66	58	26	39
26	73	30	50	300	87	160	---	47	---	130	32	73
27	68	27	46	220	92	140	2,500	510	1,100	84	32	49
28	68	28	44	---	---	---	560	160	300	53	25	33
29	120	26	55	---	---	---	220	110	160	480	34	140
30	60	26	38	---	---	---	2,500	110	1,100	120	35	55
31	---	---	---	---	---	---	520	140	250	---	---	---

MONTH

YEAR

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## 03260100 ELIJAHS CREEK AT ELIJAHS CREEK ROAD NEAR HEBRON, KY

LOCATION.--Lat 39°04'47", long 84°41'07", Boone County, Hydrologic Unit 05090203, at bridge on Elijahs Creek Road, 0.6 mi downstream from Interstate 275, 1.3 mi northeast of Hebron, and 2.5 mi upstream from the mouth.

DRAINAGE AREA.--4.03 mi<sup>2</sup>.

## WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder with telemetry and crest-stage gage. Datum of gage is 759.085 ft above NGVD of 1929.

REMARKS.--Records fair.

COOPERATION.--Northern Kentucky Sanitation District No. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.79	4.5	17	19	7.2	4.4	1.6	4.3	0.47	60	0.04	1.9
2	1.9	38	3.6	10	1.9	3.5	24	1.2	1.3	0.13	0.04	0.89
3	0.81	18	2.7	154	10	3.5	7.4	1.3	0.65	0.07	0.05	0.50
4	0.71	24	2.3	85	8.0	2.9	1.3	1.9	0.54	0.06	0.06	0.31
5	0.80	5.7	2.1	262	7.1	8.1	0.50	1.2	0.56	0.07	0.11	0.26
6	1.3	2.1	9.4	161	9.8	3.2	4.2	0.90	0.21	0.05	24	0.21
7	1.3	1.6	24	8.5	13	11	8.1	0.98	0.19	1.6	0.18	0.24
8	0.99	1.3	4.0	41	50	3.7	2.8	1.0	0.21	0.19	0.17	0.26
9	1.1	0.96	46	6.1	15	2.9	0.28	1.3	0.17	0.05	0.08	0.35
10	1.1	1.1	8.6	4.1	3.6	2.0	0.22	1.5	3.7	0.05	0.08	0.38
11	1.1	52	15	28	6.3	7.8	4.1	1.7	1.3	0.04	26	0.39
12	11	44	4.4	9.3	2.7	4.5	0.59	15	24	0.06	0.57	0.40
13	5.5	3.1	3.8	78	18	3.6	24	2.4	6.0	26	0.10	0.40
14	3.9	2.1	2.6	13	23	3.3	0.83	39	36	7.1	0.36	0.74
15	19	1.8	2.2	4.4	8.8	2.6	0.24	2.7	1.7	0.27	0.05	0.51
16	2.2	2.2	2.1	3.5	4.5	6.8	0.27	1.7	0.92	0.64	0.66	0.70
17	1.5	1.6	2.0	6.3	7.6	1.7	3.7	1.2	0.61	5.4	0.09	0.96
18	299	1.7	1.9	e1.9	2.9	1.7	0.15	1.0	0.31	0.13	0.07	0.53
19	27	89	1.9	e1.5	2.6	11	0.19	11	0.22	0.07	10	2.1
20	3.7	6.8	2.2	e1.0	2.7	3.1	0.17	1.8	0.21	4.2	0.10	20
21	5.0	3.1	2.2	e1.0	8.4	3.0	5.6	0.89	0.22	0.10	0.08	0.70
22	4.1	3.0	5.0	e0.96	2.8	6.7	56	0.64	0.21	2.2	0.06	0.32
23	21	2.5	16	e0.89	2.6	77	105	0.61	0.15	0.28	0.05	3.7
24	4.8	19	13	e0.87	3.3	5.1	7.8	0.61	0.15	0.06	0.04	0.72
25	2.0	4.9	19	e0.82	7.4	3.9	2.2	0.58	0.15	0.05	0.05	1.0
26	2.2	2.5	8.5	e0.78	2.0	3.4	68	0.56	0.17	0.05	8.1	22
27	11	8.2	6.1	e0.76	1.9	12	9.0	0.68	0.14	0.05	0.07	1.4
28	1.9	5.6	4.4	e0.76	14	283	5.3	7.0	0.16	0.05	0.06	0.69
29	1.6	2.5	46	11	---	9.2	0.90	0.50	0.17	0.03	0.09	12
30	7.5	20	145	8.8	---	6.5	0.78	3.8	1.5	0.04	183	0.73
31	1.6	---	125	2.2	---	5.1	---	0.98	---	0.04	36	---
TOTAL	447.40	372.86	548.0	926.44	247.1	506.2	345.22	109.93	82.29	109.13	290.41	75.29
MEAN	14.4	12.4	17.7	29.9	8.82	16.3	11.5	3.55	2.74	3.52	9.37	2.51
MAX	299	89	145	262	50	283	105	39	36	60	183	22
MIN	0.71	0.96	1.9	0.76	1.9	1.7	0.15	0.50	0.14	0.03	0.04	0.21

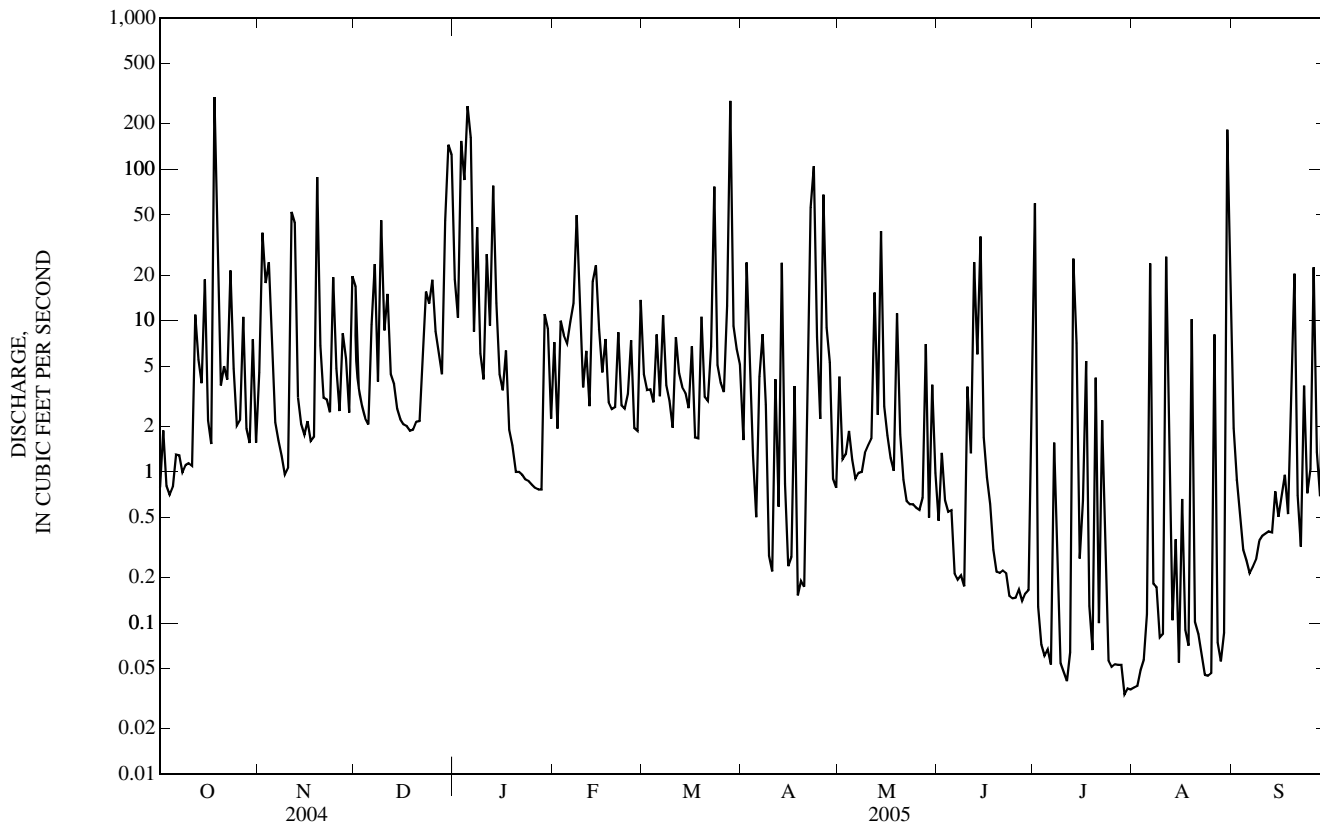
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

MEAN	7.41	6.54	7.99	12.5	8.74	9.02	8.82	11.8	5.05	4.27	3.84	4.95
MAX	14.6	12.4	17.7	29.9	18.6	16.3	16.5	21.9	7.59	8.49	9.37	12.2
(WY)	(2002)	(2005)	(2005)	(2005)	(2000)	(2005)	(2002)	(2002)	(2002)	(2003)	(2005)	(2003)
MIN	1.06	0.86	1.72	1.62	2.85	1.79	1.57	3.55	2.74	0.80	0.63	0.01
(WY)	(2001)	(2000)	(2003)	(2003)	(2003)	(2001)	(2001)	(2005)	(2005)	(2002)	(2002)	(2001)

03260100 ELIJAHS CREEK AT ELIJAHS CREEK ROAD NEAR HEBRON, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005	
ANNUAL TOTAL	3,859.89		4,060.27		7.58	
ANNUAL MEAN	10.5		11.1		11.1	
HIGHEST ANNUAL MEAN					2.22	2005
LOWEST ANNUAL MEAN					0.00	2001
HIGHEST DAILY MEAN	332	Jan 4	299	Oct 18	332	Jan 4, 2004
LOWEST DAILY MEAN	0.18	Jul 1	0.03	Jul 29	0.00	Oct 2, 1999
ANNUAL SEVEN-DAY MINIMUM	0.37	Sep 18	0.04	Jul 27	0.00	Oct 15, 1999
MAXIMUM PEAK FLOW			805	Oct 18	1,510	May 10, 2003
MAXIMUM PEAK STAGE			4.10	Oct 18	7.34	May 10, 2003
10 PERCENT EXCEEDS	26		23		15	
50 PERCENT EXCEEDS	2.1		2.1		1.5	
90 PERCENT EXCEEDS	0.56		0.10		0.18	

e Estimated



## 03260100 ELIJAH'S CREEK AT ELIJAH'S CREEK ROAD NEAR HEBRON, KY—Continued

## WATER-QUALITY RECORDS

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

COOPERATION.--Northern Kentucky Sanitation District No. 1.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 2001 to current year.

pH: March 2001 to current year.

WATER TEMPERATURES: March 2001 to current year.

DISSOLVED OXYGEN: March 2001 to current year.

TURBIDITY: March 2001 to Sept. 2003.

INSTRUMENTATION.--Water-quality monitor with telemetry.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Records rated good. Missing data Jan. 5-10, Mar. 28 to Apr. 8, June 12-15, and July 29 to Aug 2, 2005.

pH: Records rated good. Missing data July 29 to Aug 2, 2005.

WATER TEMPERATURES: Records rated excellent. Missing data Feb. 24, May 3, July 29 to Aug. 1, and Sept. 7, 2005.

DISSOLVED OXYGEN: Records rated poor. Missing data Oct. 26-27, Dec. 9, 31, 2004, Jan. 1-10, Feb. 9-23, Mar. 1-14, 28-31, Apr. 1-7, 19-21, 29-30, May 1-2, 26-31, June 11-14, July 17-21, 29-31, Aug. 1-2, and Sept. 3-15, and 23-30, 2005.

TURBIDITY: No data collected.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 11,800 microsiemens, Dec. 14, 2003; minimum recorded, 21 microsiemens, July 18, 2001.

pH: Maximum recorded, 8.7 units, Aug. 1, 13, 17, 18, 2003, and May 14, Jun. 8-10, 12, 2005; minimum recorded, 5.9 units, Nov. 4, 2003.

WATER TEMPERATURES: Maximum recorded, 30.9°C, July 25, 2005; minimum recorded, 0.0°C, several days in Dec., Jan., Feb., and Mar. of each year of record.

DISSOLVED OXYGEN: Maximum recorded, 19.9 mg/L, May 6, 2001; minimum recorded, 0.4 mg/L, July 8, 2005.

TURBIDITY: Maximum recorded, greater than 1000 FNU, several days in 2001, 2002 and June 8, 14, 2003; minimum recorded, 0.3 FNU, Sept. 18, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 9,640 microsiemens, Jan. 21, 2005; minimum recorded, 136 microsiemens, Aug. 30, 2005.

pH: Maximum recorded, 8.7 units, May 14, June 8-10, 12, 2005; minimum recorded, 7.4 units, Jan. 14-15, Apr. 13, 17, 21-22, and Aug. 21, 2005.

WATER TEMPERATURES: Maximum recorded, 30.9°C, July 25, 2005; minimum recorded, 0.0°C, several days in Dec. 2004, Jan. and Mar. 2005.

DISSOLVED OXYGEN: Maximum recorded, 16.4 mg/L, Dec. 16, 2004; minimum recorded, 0.4 mg/L, July 8, 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	1,020	959	985	1,210	826	953	794	393	647	709	557	651
2	1,200	961	1,110	912	368	568	1,000	794	868	804	709	762
3	1,190	1,190	1,190	826	365	506	1,010	853	907	804	255	506
4	1,190	1,180	1,190	949	386	524	979	902	933	485	272	419
5	1,190	1,180	1,180	930	463	703	965	924	945	---	---	---
6	1,260	1,190	1,220	1,010	930	982	975	431	635	---	---	---
7	1,240	1,110	1,170	1,040	965	1,020	771	378	640	---	---	---
8	1,210	1,170	1,200	1,030	964	980	905	716	778	---	---	---
9	1,280	1,200	1,240	1,080	1,030	1,050	900	186	630	---	---	---
10	1,280	1,270	1,280	1,130	1,060	1,090	708	411	592	---	---	---
11	1,270	1,230	1,250	1,200	262	847	678	408	529	997	509	619
12	1,240	226	1,100	748	322	568	728	589	679	837	591	752
13	610	281	494	982	748	852	1,080	718	791	879	251	636
14	688	545	616	1,120	982	1,050	1,090	868	952	797	424	672
15	637	295	459	1,120	976	1,080	1,010	795	899	920	797	864
16	704	559	650	1,210	1,070	1,110	976	836	893	2,120	920	1,320
17	806	704	750	1,270	1,140	1,200	959	779	832	4,060	1,760	3,080
18	844	164	474	1,140	804	1,080	833	793	815	2,840	1,850	2,360
19	857	242	631	1,070	257	537	1,490	815	994	1,850	1,390	1,470
20	1,210	857	961	901	498	817	1,030	961	990	6,300	1,380	2,640
21	1,310	1,140	1,180	977	885	941	1,020	955	980	9,640	3,160	5,350
22	1,220	965	1,130	1,020	851	955	3,040	1,010	2,070	6,320	4,570	5,220
23	1,200	259	963	1,250	985	1,110	2,200	1,880	2,000	6,720	5,290	5,710
24	893	516	769	1,300	378	774	2,520	1,930	2,100	5,600	4,030	4,960
25	1,080	893	990	889	704	805	2,460	1,580	1,850	8,810	3,370	4,510
26	1,030	651	988	954	889	928	1,940	1,400	1,690	5,380	3,180	4,160
27	888	357	565	989	388	888	2,180	1,650	1,780	4,590	3,120	4,070
28	953	718	825	813	418	658	2,360	2,150	2,260	3,120	2,350	2,580
29	1,150	953	1,070	1,100	566	893	3,090	1,700	2,420	7,240	2,060	4,010
30	1,100	440	730	1,100	376	837	2,170	473	1,170	6,890	2,880	5,100
31	826	639	743	---	---	---	557	385	451	5,280	2,330	2,870
MONTH	1,310	164	939	1,300	257	877	3,090	186	1,120	9,640	251	2,610





## 03260100 ELIJAHS CREEK AT ELIJAHS CREEK ROAD NEAR HEBRON, 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	18.3	12.8	15.4	15.3	13.2	14.1	9.4	5.5	7.7	7.2	5.5	6.3
2	16.9	13.9	16.2	17.9	15.3	16.7	6.5	4.2	5.4	9.5	6.4	7.9
3	15.4	10.5	13.0	16.2	12.7	14.6	5.7	3.7	4.7	11.8	9.5	10.8
4	16.0	11.3	13.2	12.9	11.5	12.4	5.6	2.2	4.0	11.0	8.5	9.7
5	14.0	9.9	11.9	11.9	9.3	10.7	6.6	3.3	5.1	8.5	5.5	7.2
6	14.0	8.6	11.2	11.9	7.7	9.8	10.3	6.6	8.8	5.8	4.6	5.4
7	15.0	8.9	11.9	13.6	9.3	11.2	13.5	10.3	11.8	5.2	4.1	4.7
8	16.9	11.9	14.2	10.6	6.9	8.7	10.7	7.8	9.3	5.3	4.1	4.8
9	16.3	14.1	15.1	8.6	5.0	6.7	9.0	7.1	7.9	7.1	4.9	5.7
10	15.9	12.5	14.2	10.0	5.4	7.6	10.1	8.9	9.5	6.6	5.6	6.2
11	14.5	10.4	12.5	11.5	7.7	9.0	8.9	6.0	7.4	10.5	6.2	8.3
12	15.2	10.5	12.4	10.5	7.7	9.1	6.9	5.2	6.1	12.5	10.5	11.5
13	14.9	13.8	14.4	7.7	5.4	6.6	6.2	2.0	4.0	12.3	8.1	11.1
14	16.0	14.4	15.0	7.4	4.2	5.9	3.1	1.2	2.0	8.1	3.5	6.0
15	14.4	11.2	12.4	7.9	3.8	6.0	1.6	0.0	0.8	4.3	2.0	3.1
16	11.2	9.3	10.6	9.3	7.0	8.2	2.1	0.0	0.9	2.6	0.0	1.3
17	11.5	7.1	9.1	11.0	9.2	10.1	2.9	0.3	1.6	0.1	0.0	0.0
18	12.2	7.9	9.5	13.4	10.9	12.0	3.5	0.1	1.9	0.0	0.0	0.0
19	13.3	12.2	12.7	13.9	12.7	13.3	3.3	0.0	1.2	0.0	0.0	0.0
20	14.5	13.3	13.8	13.9	12.4	13.1	0.2	0.0	0.0	0.0	0.0	0.0
21	14.2	13.5	13.8	12.9	11.1	11.8	0.4	0.0	0.1	0.2	0.0	0.0
22	13.8	12.4	13.1	11.4	10.6	11.0	0.1	0.0	0.0	0.2	0.0	0.0
23	15.7	12.3	13.6	12.1	10.6	11.3	0.0	0.0	0.0	0.0	0.0	0.0
24	16.8	13.7	15.2	13.9	11.9	12.7	0.0	0.0	0.0	0.0	0.0	0.0
25	15.4	11.2	13.4	11.9	5.8	8.4	0.0	0.0	0.0	0.1	0.0	0.0
26	14.8	11.2	13.3	7.7	4.9	6.3	0.0	0.0	0.0	0.2	0.0	0.0
27	15.6	14.5	15.0	8.5	6.5	7.5	0.0	0.0	0.0	0.8	0.0	0.0
28	16.8	13.5	15.1	8.2	5.7	7.2	0.0	0.0	0.0	0.5	0.0	0.1
29	19.2	16.0	17.4	7.1	5.4	6.2	0.0	0.0	0.0	0.1	0.0	0.0
30	19.5	16.2	17.9	9.3	6.5	7.4	1.6	0.0	0.6	1.9	0.0	0.9
31	16.2	13.4	14.7	---	---	---	5.5	1.6	3.6	2.0	0.0	0.9
MONTH	19.5	7.1	13.6	17.9	3.8	9.9	13.5	0.0	3.4	12.5	0.0	3.6
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.4	1.2	2.2	3.5	1.0	2.2	13.2	9.5	10.6	13.3	7.5	10.3
2	2.3	0.1	1.1	4.4	0.0	1.5	11.3	6.9	8.5	11.6	8.4	10.1
3	4.6	1.0	2.2	4.7	0.0	1.7	12.4	5.4	8.5	---	---	---
4	5.1	0.1	1.8	5.9	0.5	2.8	17.0	7.3	11.8	14.5	7.8	11.2
5	6.1	0.5	2.4	6.3	3.4	4.5	19.5	10.9	15.0	16.4	9.3	12.6
6	6.2	1.9	3.7	10.0	2.1	5.8	19.2	12.9	16.1	17.4	10.0	13.7
7	6.4	3.8	5.1	10.2	5.4	7.7	17.4	14.3	16.0	19.4	11.5	15.4
8	9.5	6.3	7.8	7.7	2.3	4.6	18.7	12.5	15.4	21.5	14.3	17.7
9	8.0	5.9	7.0	6.2	0.2	2.8	19.8	10.0	14.5	21.7	15.6	18.6
10	6.1	1.9	3.7	3.6	0.2	1.8	21.3	11.8	16.3	21.8	17.2	19.2
11	4.7	0.8	2.6	3.4	1.4	2.1	21.1	14.9	17.8	23.8	17.4	20.4
12	6.9	1.3	3.9	5.3	0.9	3.0	17.5	13.7	14.9	20.6	16.3	17.9
13	6.9	3.9	5.3	4.6	1.1	3.0	13.9	10.9	12.4	21.6	14.5	18.0
14	8.6	6.5	7.8	7.9	0.3	3.9	16.7	7.8	12.1	19.7	16.7	17.9
15	11.8	5.6	7.8	8.9	1.3	4.8	18.2	9.1	13.3	16.7	13.7	14.9
16	8.8	6.7	7.9	8.9	3.2	5.9	19.5	9.9	14.4	15.5	12.8	14.0
17	7.2	4.1	5.6	11.7	3.3	7.0	20.9	12.0	16.3	17.5	11.3	14.3
18	6.0	2.6	4.0	12.8	3.4	7.6	22.2	13.6	17.5	19.6	12.5	16.0
19	5.0	1.5	3.4	8.4	6.3	7.2	21.0	14.4	17.7	18.1	15.3	16.7
20	6.0	3.9	4.6	8.9	5.5	6.7	22.2	14.6	18.2	17.1	15.7	16.4
21	8.4	5.6	7.0	10.6	3.1	6.4	18.5	14.6	16.5	19.7	13.6	16.5
22	7.3	5.9	6.5	7.6	3.8	5.9	16.6	12.1	14.4	18.3	14.0	16.2
23	6.3	1.9	---	6.9	4.9	5.8	14.3	7.7	10.2	20.6	14.9	17.5
24	---	---	---	11.4	4.3	7.2	8.7	6.1	7.5	18.2	14.5	16.3
25	4.9	0.6	3.1	8.6	6.3	7.6	14.0	6.5	10	18.5	13.2	15.7
26	7.2	2.2	4.3	10.1	7.0	8.4	12.2	9.8	11.2	20.8	13.1	16.8
27	7.0	1.2	4.2	8.7	7.0	7.9	11.9	8.6	10.3	21.6	15.2	17.9
28	5.8	3.3	4.8	9.2	7.3	8.1	12.4	8.0	10.2	19.3	15.1	17.2
29	---	---	---	15.2	5.8	10.1	11.3	10.2	10.7	21.4	14.6	17.7
30	---	---	---	16.8	8.6	12.5	11.9	10.0	11.0	17.8	15.4	16.2
31	---	---	---	17.8	11.9	14.3	---	---	---	---	---	---
MONTH				17.8	0.0	5.8	22.2	5.4	13.3	23.8	7.5	16.0





## 03260100 ELIJAH'S CREEK AT ELIJAH'S CREEK ROAD NEAR HEBRON, 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	9.1	7.0	7.9	9.6	6.3	7.7	9.3	7.6	8.3	---	---	---
2	7.8	6.4	7.0	7.2	6.2	6.5	11.6	8.3	9.5	---	---	---
3	9.7	7.1	8.2	7.4	6.2	6.7	12.8	8.3	10.1	---	---	---
4	9.8	7.8	8.4	8.5	6.8	7.3	13.6	8.8	10.7	---	---	---
5	9.5	7.7	8.5	8.4	6.8	7.6	14.0	8.1	10.5	---	---	---
6	10.0	7.9	8.7	9.6	7.8	8.7	8.6	5.6	7.0	---	---	---
7	9.6	7.5	8.3	9.8	7.6	8.4	7.3	5.4	6.3	---	---	---
8	9.1	7.2	7.9	11.2	7.7	9.2	11.8	7.3	9.5	---	---	---
9	8.8	6.8	7.4	12.3	8.8	10.1	---	---	---	---	---	---
10	8.8	6.9	7.7	12.5	8.2	10.1	10.8	9.7	10.2	---	---	---
11	10.1	7.5	8.6	10.9	7.1	8.6	11.2	9.7	10.4	10.0	8.5	9.2
12	10.3	7.7	8.8	9.6	8.1	8.8	13.8	10.3	11.5	8.5	6.8	7.6
13	8.7	6.8	7.9	10.3	8.6	9.3	14.2	10.4	12.1	9.3	6.7	7.6
14	6.8	4.3	5.7	11.6	9.1	10.1	15.1	11.3	12.8	9.9	9.0	9.3
15	7.2	4.6	6.4	11.6	8.7	9.9	15.8	11.3	13.3	12.1	9.7	11.0
16	8.1	6.4	7.3	10.8	7.8	8.9	16.4	10.9	13.5	13.4	11.7	12.7
17	9.2	7.3	8.1	12.5	7.0	9.4	14.8	10.5	12.1	13.4	8.8	12.1
18	10.4	7.6	8.8	14.7	7.2	9.7	14.6	9.0	11.6	12.1	9.1	11.1
19	9.7	8.9	9.4	8.3	6.4	7.5	14.8	9.0	11.5	12.0	10.4	11.3
20	8.9	8.3	8.7	9.0	7.1	7.7	16.0	9.2	11.9	12.0	11.1	11.6
21	9.3	8.4	8.9	9.9	7.2	8.0	15.2	9.5	11.6	12.3	11.2	11.9
22	9.7	8.9	9.4	8.6	7.0	7.6	10.9	7.9	9.8	12.0	10.8	11.4
23	9.8	8.1	9.2	9.9	6.5	7.6	7.9	5.5	6.8	10.8	9.6	10.2
24	9.8	8.8	9.2	7.0	5.8	6.4	9.7	6.5	7.5	10.8	9.0	9.9
25	10.6	8.8	9.5	9.8	6.4	8.1	8.7	5.6	7.0	12.0	10.5	10.7
26	---	---	---	11.4	8.0	9.2	8.6	5.6	6.9	11.1	10.5	10.8
27	---	---	---	11.5	6.9	8.9	8.7	6.5	7.3	11.2	9.8	10.5
28	10.2	7.8	9.0	10.3	7.1	8.1	8.0	5.8	6.8	10.1	8.9	9.5
29	9.6	7.0	8.1	12.6	8.1	9.6	9.8	5.7	7.4	11.4	7.3	9.7
30	7.6	5.9	6.7	10.6	6.8	8.3	11.5	7.6	9.5	11.1	9.0	10.3
31	10.4	6.3	8.0	---	---	---	---	---	---	10.1	9.0	9.6
				14.7	5.8	8.5						
	FEBRUARY			MARCH			APRIL			MAY		
1	10.4	8.2	9.4	---	---	---	---	---	---	---	---	---
2	10.0	8.8	9.3	---	---	---	---	---	---	---	---	---
3	9.1	7.8	8.5	---	---	---	---	---	---	10.3	7.3	9.0
4	8.9	6.3	8.1	---	---	---	---	---	---	8.7	6.9	7.7
5	8.0	5.2	6.3	---	---	---	---	---	---	9.1	7.1	8.1
6	6.1	3.3	4.7	---	---	---	---	---	---	9.3	6.4	7.9
7	6.1	2.7	3.5	---	---	---	---	---	---	9.0	5.6	7.3
8	5.1	2.9	4.0	---	---	---	12.7	8.9	10.7	9.6	5.4	7.0
9	---	---	---	---	---	---	13.2	8.3	10.5	10.4	4.5	6.9
10	---	---	---	---	---	---	13.6	7.5	10.1	8.6	4.4	6.1
11	---	---	---	---	---	---	10.1	6.3	8.1	9.3	4.9	6.4
12	---	---	---	---	---	---	9.4	6.2	7.6	6.8	4.1	5.7
13	---	---	---	---	---	---	7.9	5.9	7.1	8.8	4.8	6.4
14	---	---	---	---	---	---	10.3	6.6	8.4	6.6	4.1	5.3
15	---	---	---	8.4	7.0	7.3	12.0	6.6	9.1	7.6	4.6	6.4
16	---	---	---	9.0	6.4	7.4	13.8	7.3	10.0	8.3	6.4	7.3
17	---	---	---	8.3	6.4	7.2	13.4	6.6	9.3	8.9	6.6	7.7
18	---	---	---	9.1	6.7	7.7	12.3	7.1	9.0	9.0	6.0	7.4
19	---	---	---	9.0	5.0	7.1	---	---	---	7.2	4.7	5.9
20	---	---	---	5.6	4.2	5.0	---	---	---	5.9	4.5	5.3
21	---	---	---	6.2	2.8	4.7	---	---	---	8.1	5.8	6.7
22	---	---	---	7.9	3.4	5.5	9.1	2.9	6.8	8.8	6.0	7.2
23	---	---	---	9.3	5.3	7.9	10.6	8.3	9.7	8.7	6.1	7.1
24	10.0	9.6	9.7	9.3	5.9	7.9	11.2	9.2	10.2	9.5	6.1	7.6
25	10.4	6.5	8.3	6.1	4.8	5.6	11.1	7.6	9.3	10.3	6.5	8.1
26	7.9	6.2	7.2	4.9	3.3	4.4	9.4	7.6	8.6	---	---	---
27	9.1	6.5	7.9	4.4	2.5	2.9	9.4	7.9	8.4	---	---	---
28	8.3	5.0	7.4	---	---	---	9.7	6.9	8.7	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

MONTH

## ELIJAHS CREEK BASIN

03260100 ELIJAHS CREEK AT ELIJAHS CREEK ROAD NEAR HEBRON, KY—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.9	5.8	7.7	7.8	5.5	6.5	---	---	---	4.4	3.4	3.9
2	8.6	3.7	5.9	8.0	5.6	6.6	---	---	---	6.2	3.6	4.7
3	6.3	2.6	4.1	9.0	5.6	6.8	10.7	5.5	6.9	---	---	---
4	7.3	2.6	4.8	9.4	5.0	6.6	8.4	4.3	5.8	---	---	---
5	8.2	3.8	5.1	9.0	4.5	6.3	5.7	3.9	4.7	---	---	---
6	7.8	3.6	5.0	8.9	5.0	6.5	6.6	3.8	5.2	---	---	---
7	8.8	3.5	5.4	8.9	3.7	6.0	7.7	4.6	5.7	---	---	---
8	8.7	3.7	5.5	3.7	0.4	1.8	8.6	4.4	6.0	---	---	---
9	9.1	3.6	5.4	6.3	2.3	4.5	8.7	4.1	5.8	---	---	---
10	8.8	3.6	5.2	7.4	4.3	5.5	9.0	4.0	5.7	---	---	---
11	---	---	---	8.1	4.4	5.7	7.5	3.6	5.2	---	---	---
12	---	---	---	7.2	4.5	5.6	7.4	4.6	5.6	---	---	---
13	---	---	---	7.6	5.0	6.7	7.7	4.5	5.8	---	---	---
14	---	---	---	8.1	6.0	7.0	8.4	4.2	6.0	---	---	---
15	8.3	6.9	7.6	9.1	6.0	7.2	8.7	3.9	5.8	---	---	---
16	9.3	6.9	8.0	8.8	5.5	6.8	7.5	3.5	5.2	13.5	10.2	11.2
17	9.9	7.2	8.3	---	---	---	6.0	2.2	3.9	13.6	10.1	11.3
18	11.1	7.3	8.8	---	---	---	6.8	3.5	5.0	13.5	10.1	11.3
19	11.4	7.2	8.9	---	---	---	6.3	2.5	4.0	13.0	9.9	10.9
20	11.1	6.8	8.7	---	---	---	3.5	0.9	2.0	12.2	10.2	11.2
21	11.6	6.9	8.8	---	---	---	3.8	0.8	2.2	13.2	10.1	11.1
22	11.4	6.6	8.3	7.5	5.3	6.2	7.0	2.6	4.0	13.5	9.7	11.0
23	11.1	6.4	8.0	9.0	5.3	6.5	8.7	2.9	5.4	---	---	---
24	12.1	6.3	8.6	10.1	5.2	6.9	7.0	3.8	4.8	---	---	---
25	11.3	6.3	8.1	9.7	4.9	6.4	7.0	3.5	4.7	---	---	---
26	8.5	4.9	6.5	9.3	4.7	6.3	5.9	1.1	3.5	---	---	---
27	8.7	4.5	5.8	8.3	4.7	6.1	8.3	4.8	6.0	---	---	---
28	7.8	4.3	5.6	10.8	5.8	7.3	9.4	4.7	6.2	---	---	---
29	8.0	4.1	5.6	---	---	---	7.7	4.1	5.5	---	---	---
30	8.6	4.2	6.0	---	---	---	6.2	1.3	4.5	---	---	---
31	---	---	---	---	---	---	5.7	3.4	4.7	---	---	---

MONTH

YEAR

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