

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 mi².

WATER DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder with telemetry. 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	6.6	36	39	29	29	58	139	59	0.47	64	4.4
2	12	6.7	27	390	32	33	57	410	32	0.59	22	3.6
3	9.5	6.1	24	114	334	30	50	81	21	0.73	12	17
4	8.9	5.9	22	1,830	e77	251	38	50	15	0.73	129	14
5	7.8	5.9	33	447	190	77	31	37	11	0.68	56	8.2
6	6.8	6.3	32	92	482	87	27	28	9.4	4.0	16	5.9
7	7.0	7.4	25	e66	92	53	26	22	7.5	2.1	8.1	4.6
8	5.3	6.5	22	e60	e55	39	24	19	5.8	1.3	5.1	12
9	4.8	5.3	e21	e52	e46	32	20	17	4.7	0.96	3.3	15
10	e4.8	4.9	122	e43	e46	26	18	14	4.4	10	2.7	9.2
11	4.7	5.7	79	e39	e47	25	17	13	4.5	20	2.6	6.8
12	5.1	609	44	38	e45	23	38	11	8.1	e18	2.0	5.1
13	5.0	104	e33	35	e40	20	289	10	14	13	1.7	4.1
14	13	43	e30	33	36	20	200	9.6	4.9	4.0	1.8	3.5
15	18	40	e26	32	e31	19	e63	33	6.6	1.9	1.7	2.8
16	8.4	32	72	29	e26	32	44	24	4.0	1.2	1.3	2.4
17	6.6	25	72	31	e22	32	35	14	8.9	3.7	1.5	28
18	6.5	84	45	95	e21	28	29	14	32	3.6	1.7	17
19	6.1	120	38	59	22	29	25	148	6.7	2.9	2.0	9.2
20	5.8	50	e31	e42	30	29	23	35	3.3	1.9	2.7	6.6
21	4.8	33	e32	e33	41	31	27	18	1.8	1.1	6.9	4.7
22	4.6	25	36	e32	28	25	41	13	1.4	104	5.5	3.9
23	5.0	21	99	e19	27	23	48	9.6	1.1	14	3.9	3.2
24	4.9	44	118	29	27	23	31	8.6	0.87	5.3	4.5	2.5
25	5.2	31	54	e18	25	21	45	7.5	0.72	2.7	5.1	2.3
26	26	24	40	e36	24	20	36	32	0.64	6.1	7.6	2.3
27	16	197	33	e47	22	19	25	126	0.57	4.8	12	3.3
28	9.7	288	30	e35	21	18	21	188	0.49	2.9	14	5.0
29	9.9	86	36	e26	21	26	18	33	0.60	1.8	13	3.0
30	8.5	50	135	e27	---	101	55	30	0.58	32	7.0	3.0
31	7.0	---	52	e22	---	63	---	333	---	997	5.5	---
TOTAL	264.7	1,973.3	1,499	3,890	1,939	1,284	1,459	1,927.3	271.57	1,263.46	422.2	212.6
MEAN	8.54	65.8	48.4	125	66.9	41.4	48.6	62.2	9.05	40.8	13.6	7.09
MAX	26	609	135	1,830	482	251	289	410	59	997	129	28
MIN	4.6	4.9	21	18	21	18	17	7.5	0.49	0.47	1.3	2.3

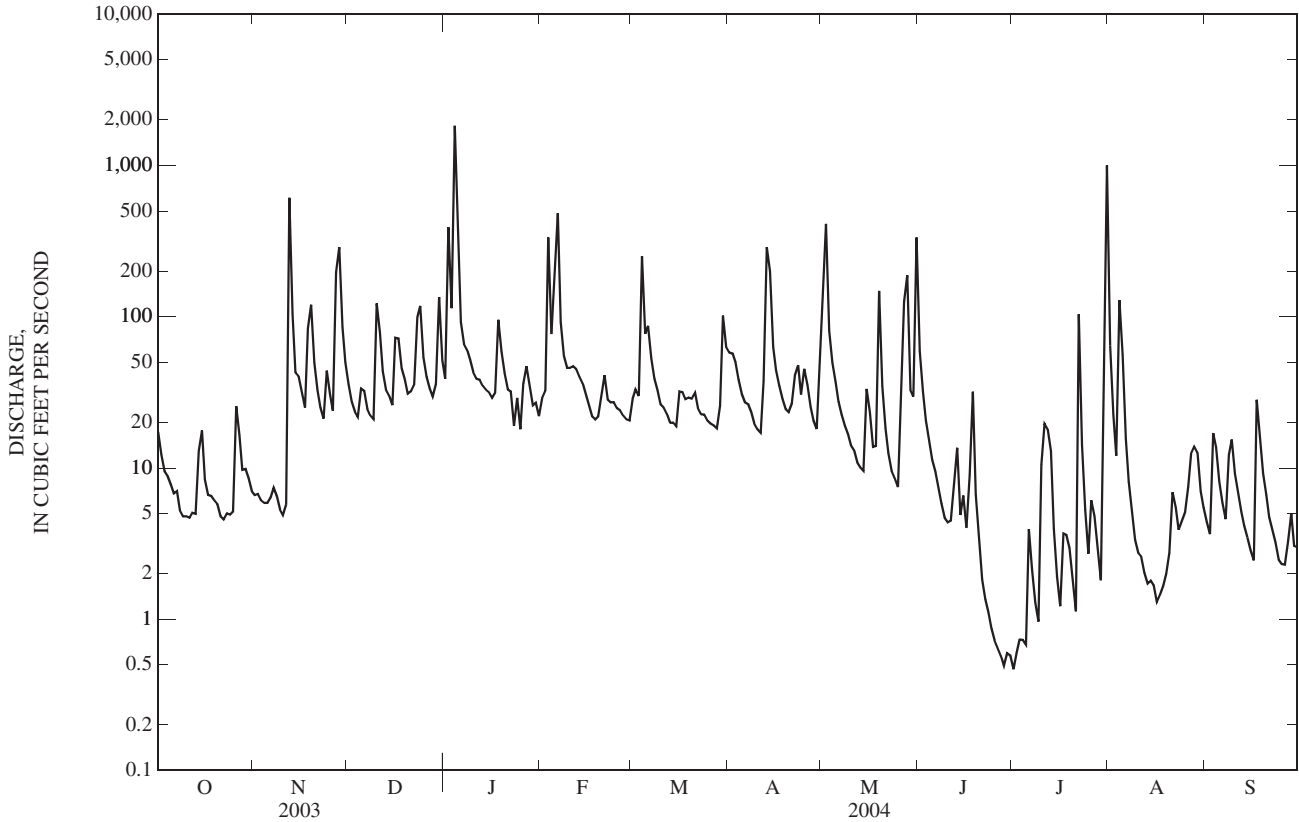
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	19.4	28.3	58.0	57.3	73.0	46.5	45.4	53.6	19.0	17.4	16.7	16.5
MAX	66.4	65.8	92.6	125	143	74.3	110	150	41.1	40.8	48.4	50.1
(WY)	(2002)	(2004)	(2003)	(2004)	(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)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	16,011.1		16,406.13			
ANNUAL MEAN	43.9		44.8		39.5	
HIGHEST ANNUAL MEAN					54.8	2002
LOWEST ANNUAL MEAN					22.1	2001
HIGHEST DAILY MEAN	911	Feb 22	1,830	Jan 4	2,130	Feb 18, 2000
LOWEST DAILY MEAN	1.2	Jul 4	0.47	Jul 1	0.00	Sep 21, 1999
ANNUAL SEVEN-DAY MINIMUM	1.8	Jul 2	0.56	Jun 26	0.00	Sep 21, 1999
MAXIMUM PEAK FLOW			3,930	Jan 4	9,570	Apr 21, 2002
MAXIMUM PEAK STAGE			8.75	Jan 4	10.65	Apr 21, 2002
10 PERCENT EXCEEDS	81		80		72	
50 PERCENT EXCEEDS	19		21		12	
90 PERCENT EXCEEDS	4.2		2.7		0.89	

e Estimated



WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 2000 to September 2004.

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 2000 to current water year.

pH: December 2000 to current water year.

WATER TEMPERATURES: December 2000 to current water year.

DISSOLVED OXYGEN: December 2000 to current water year.

TURBIDITY: December 2000 to current water year.

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

RECORDS.--

SPECIFIC CONDUCTANCE: Records rated excellent except the following periods: Oct. 1-30, Jan. 27-Feb. 2, Jun. 5-19 rated good; Dec. 29-Jan. 22, Feb. 3-May 26 rated fair; May 27-Jun. 4 rated poor.

pH: Records rated excellent except the following periods: Nov. 25-Dec. 11, Dec. 19-Jan. 16, Feb. 17-23, Apr. 19-May 13, Jun. 5-16 rated good; Dec. 12-17, Jan. 17-21, Jan. 31-Feb. 16, May 14-Jun. 4 rated fair; Dec. 18 rated poor.

WATER TEMPERATURES: Records excellent except the following periods: Jun. 4-10, Sept. 6-14 rated good.

DISSOLVED OXYGEN: Records rated excellent except the following periods: Oct. 11-13, Nov. 15-23, Dec. 14-16, Jan. 5-10, May 4-10, Aug. 8-12, Sept. 14-20 rated good; Oct 14-16, Nov. 24-Dec. 6, Jan. 11-18, May 11-21, Aug. 13-20, Sept. 21-30 rated fair; Oct. 17-27, Dec. 7-13, Jan. 19-22, Jan. 27-Mar. 9, May 22-Jun. 3, Aug. 21-Sept. 13 rated poor.

TURBIDITY: Records rated excellent except for the following periods: Oct. 16-18, Nov. 26, Mar. 1-3, Mar. 8-27, Aug. 28-29 rated good; Oct. 19-20, Oct. 26-29, Sept. 11-13 rated fair; Oct. 21-23, Oct. 30-Nov. 3, Feb. 9-12, Feb. 17, Feb. 23-29, Mar. 28-Apr. 5, Apr. 11, Jun. 12-14, Jun. 17, Aug. 30-Sept. 10 rated poor.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1570 microsiemens, Dec. 11, 2002; 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, 32.7°C, Aug. 8, 2001; minimum recorded, -0.2°C, Dec. Dec. 20-21, 2003, and Jan. 7, 8, 10, 11, 16, 19-22 and 27-31, 2004.

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

TURBIDITY: Maximum recorded, 27000 NTU, Jul. 30-31, 2004; minimum recorded, 0.0 NTU, Jan. 22, 25-29, 2003, and Mar. 13, 2003.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1400 microsiemens, Jan. 28, 2004; minimum recorded, 188 microsiemens, Jul. 31, 2004.

pH: Maximum recorded, 8.7 units, Jun. 17, 19, 2004; minimum recorded, 7.5 units, May 1, 31, 2004.

WATER TEMPERATURES: Maximum recorded, 30.3°C, Jun. 17, 2004; minimum recorded, -0.2°C, Dec. 20-21, 2003 and Jan. 7, 8, 10, 11, 14, 16, 19-22 and 27-31, 2004.

DISSOLVED OXYGEN: Maximum recorded, 16.1 mg/L, Feb. 23, 2003; minimum recorded, 4.2 mg/L, Oct. 13, 2003.

TURBIDITY: Maximum recorded, 2700 NTU, Jul. 30-31, 2004; minimum recorded, 1.1 NTU, Feb. 28, 2004.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	577	567	572	684	666	674	521	509	516	650	630	637
2	583	573	577	691	671	682	532	521	526	654	280	397
3	597	581	587	703	686	694	543	493	537	496	382	471
4	609	590	602	715	695	705	552	543	548	382	192	253
5	617	606	611	724	704	712	567	537	554	411	195	330
6	634	609	623	720	707	713	537	517	524	463	411	439
7	641	627	634	727	693	708	529	523	526	492	463	478
8	653	626	636	705	697	701	541	529	535	522	491	503
9	660	628	643	709	700	704	625	539	577	642	515	578
10	675	637	649	718	707	710	628	358	504	649	625	633
11	675	646	659	723	711	716	516	369	454	638	592	618
12	676	651	663	718	210	350	567	516	543	601	583	590
13	678	656	668	508	311	428	587	566	575	593	584	588
14	707	622	664	567	507	539	760	585	658	599	576	588
15	707	607	624	592	561	578	990	741	936	595	589	592
16	624	605	614	615	578	595	975	523	850	613	544	600
17	609	596	603	627	606	618	561	474	512	699	612	637
18	626	604	615	643	354	592	606	561	580	706	491	595
19	639	624	631	491	327	416	987	863	929	551	492	519
20	651	636	644	556	490	527	1,090	987	1,040	601	551	577
21	668	647	656	594	555	575	1,060	938	1,010	610	592	602
22	683	658	668	609	593	600	939	789	841	611	604	609
23	676	657	666	619	606	613	871	533	762	---	---	---
24	682	661	667	623	521	578	593	472	525	---	---	---
25	684	661	671	569	521	544	639	591	618	---	---	---
26	713	592	651	598	567	583	661	639	646	---	---	---
27	594	561	574	613	316	473	670	654	662	1,280	1,120	1,200
28	601	563	579	398	338	363	674	657	667	1,400	1,120	1,240
29	628	597	613	472	379	434	726	658	681	1,210	1,070	1,110
30	649	627	640	509	472	492	660	449	509	1,080	992	1,040
31	670	647	659	---	---	---	630	570	606	1,050	1,000	1,010
MONTH	713	561	631	727	210	587	1,090	358	644	1,400	192	646

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.9	11.4	13.2	17.3	14.1	15.4	6.0	3.7	5.0	4.7	1.7	3.1
2	13.7	9.9	11.8	18.3	14.1	15.9	4.3	2.1	3.2	8.9	4.7	7.2
3	13.0	8.2	10.7	17.8	13.4	15.5	3.5	2.9	3.1	11.9	8.9	10.5
4	14.7	11.6	12.8	17.3	12.6	15.0	4.4	2.8	3.5	11.3	7.5	8.4
5	15.7	11.0	13.2	17.2	14.7	15.7	5.6	4.4	5.0	7.9	5.4	6.8
6	16.9	12.5	14.6	15.3	11.9	13.4	5.9	4.6	5.0	5.4	0.1	2.7
7	16.8	11.9	14.3	11.9	8.8	10.3	5.2	3.2	4.3	0.3	-0.2	-0.1
8	17.7	12.8	15.1	8.8	6.0	7.6	4.8	2.3	3.6	0.6	-0.2	0.2
9	18.1	13.5	15.7	7.9	4.1	6.1	6.7	4.7	5.7	1.3	0.3	0.8
10	19.4	15.9	17.4	8.6	4.5	6.5	8.3	6.5	7.4	0.3	-0.2	-0.1
11	20.6	16.0	18.1	11.0	8.1	9.4	7.5	4.1	5.9	0.7	-0.2	0.1
12	19.9	17.0	18.2	15.0	11.0	13.4	4.1	1.6	2.9	1.3	0.1	0.7
13	17.7	13.4	15.9	12.8	6.7	9.2	1.6	0.9	1.2	1.9	0.4	1.1
14	16.4	13.6	14.8	7.2	5.0	6.2	1.9	0.5	1.2	2.0	-0.2	0.8
15	15.6	11.7	13.5	7.5	6.3	6.9	2.7	1.4	1.9	1.9	0.0	0.9
16	15.2	10.7	13.1	9.4	7.5	8.4	4.9	1.1	2.9	1.4	-0.2	0.4
17	14.2	12.6	13.5	10.2	7.1	8.5	4.8	1.9	3.5	1.5	0.0	0.6
18	14.4	10.2	12.1	12.8	8.8	10.6	2.2	1.5	1.7	3.1	1.5	2.3
19	15.5	10.3	12.7	12.8	10.6	12.2	2.0	1.1	1.6	1.7	-0.2	0.6
20	16.3	10.9	13.5	10.8	8.3	9.6	1.1	-0.2	0.4	0.1	-0.2	-0.1
21	16.0	13.4	14.7	11.1	7.8	9.3	0.4	-0.2	0.0	0.3	-0.2	0.0
22	15.2	11.9	13.4	11.8	8.0	9.8	3.9	0.1	1.8	0.9	-0.2	0.1
23	13.8	10.4	12.1	13.0	10.1	11.5	6.0	3.9	5.0	---	---	---
24	12.4	8.4	10.7	12.1	5.9	9.5	5.3	3.4	4.4	---	---	---
25	14.4	9.4	11.6	5.9	4.0	5.0	3.4	1.5	2.6	---	---	---
26	13.9	11.7	12.7	6.8	4.2	5.4	2.3	0.1	1.1	---	---	---
27	11.8	9.7	10.8	9.5	6.5	7.8	2.3	-0.1	1.0	-0.1	-0.2	-0.2
28	10.0	8.7	9.4	9.5	6.4	8.3	3.7	0.4	1.8	-0.1	-0.2	-0.2
29	11.4	9.1	10.2	6.4	4.5	5.3	5.9	2.5	4.1	0.0	-0.2	-0.1
30	13.8	8.7	11.1	6.4	3.9	5.0	5.8	3.6	4.8	-0.1	-0.2	-0.2
31	16.3	11.3	13.4	---	---	---	4.4	2.0	3.2	-0.1	-0.2	-0.2
MONTH	20.6	8.2	13.4	18.3	3.9	9.8	8.3	-0.2	3.2	11.9	-0.2	1.7
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	-0.1	-0.2	-0.2	8.8	6.4	7.5	9.4	7.8	8.6	20.0	15.5	17.0
2	-0.1	-0.2	-0.1	12.7	7.6	9.7	9.4	7.3	8.5	16.2	11.6	13.2
3	-0.1	-0.2	-0.1	9.4	6.9	7.9	13.9	7.1	10.1	14.7	9.5	11.9
4	1.6	-0.2	0.5	9.4	7.7	8.5	11.8	7.6	9.2	15.1	9.4	12.0
5	1.5	0.4	0.8	13.5	9.2	11.2	12.8	5.4	8.7	20.1	11.7	15.3
6	3.2	1.5	2.6	11.8	8.4	10.3	14.1	6.0	9.7	23.0	13.7	17.8
7	2.6	1.4	2.0	9.3	6.4	7.6	16.5	10.1	13.0	22.8	16.6	19.4
8	2.5	0.4	1.3	7.2	5.4	6.2	19.0	13.1	15.3	24.5	16.1	20.0
9	2.7	0.2	1.4	7.9	4.9	6.0	17.4	11.1	14.0	25.9	17.6	21.4
10	4.7	1.3	2.7	9.2	2.9	5.7	18.0	11.6	14.4	25.7	18.8	22.1
11	3.5	0.4	2.1	8.3	4.0	5.6	16.3	12.7	14.3	26.0	19.5	22.5
12	4.6	2.3	3.1	7.6	2.2	4.6	13.5	8.9	10.6	26.4	19.8	23.0
13	2.5	0.6	1.8	8.0	1.6	4.6	8.9	7.0	7.6	24.2	20.6	22.4
14	3.3	-0.2	1.3	7.4	4.6	5.7	12.5	6.7	9.2	23.5	20.9	22.1
15	3.2	0.1	1.3	10.1	3.0	6.4	15.6	8.4	11.7	21.7	17.2	18.9
16	1.7	-0.2	0.4	7.6	4.0	5.0	18.8	10.4	14.1	20.3	16.4	18.0
17	3.1	-0.2	1.0	5.1	3.1	4.2	21.5	12.7	16.6	24.1	16.5	19.9
18	3.8	-0.2	1.4	7.4	3.8	5.4	23.1	15.3	18.7	26.4	19.1	22.4
19	5.8	0.7	3.0	9.5	4.7	6.6	19.5	16.6	18.0	24.0	19.0	20.6
20	5.9	3.1	4.4	11.7	5.5	8.4	18.7	15.7	17.1	24.2	19.5	21.6
21	5.2	3.6	4.3	9.5	4.3	6.8	17.2	15.5	16.2	26.5	21.0	23.5
22	7.0	3.0	4.5	8.6	2.0	4.8	15.9	14.9	15.3	28.2	21.8	24.8
23	6.5	2.2	4.3	9.0	1.7	5.1	15.1	13.8	14.5	28.5	22.3	25.2
24	5.7	4.2	5.1	11.5	6.2	8.5	18.2	11.9	14.9	28.1	23.1	25.2
25	6.8	2.0	4.2	14.2	9.3	11.5	18.3	14.6	16.2	27.4	22.1	24.5
26	6.3	2.3	4.2	14.9	11.7	13.2	19.2	14.0	16.3	24.2	20.3	21.5
27	7.9	2.3	4.7	17.5	13.3	15.2	17.2	12.0	14.3	21.4	18.4	19.7
28	8.0	1.7	4.7	19.4	13.1	16.1	19.0	9.6	13.9	22.1	18.4	19.7
29	8.9	3.0	5.7	16.7	11.7	14.2	20.6	12.6	16.3	23.5	17.7	20.0
30	---	---	---	12.8	10.5	11.6	18.1	15.0	16.3	20.2	18.3	19.2
31	---	---	---	11.4	8.6	10.1	---	---	---	21.2	18.0	19.3
MONTH	8.9	-0.2	2.5	19.4	1.6	8.2	23.1	5.4	13.5	28.5	9.4	20.1

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DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	10.8	7.6	8.7	11.2	10.0	10.6	14.4	11.4	12.7
2	---	---	---	10.6	7.2	8.5	12.2	10.7	11.3	11.4	10.2	10.7
3	---	---	---	10.7	7.1	8.4	12.1	11.0	11.4	10.2	9.2	9.8
4	---	---	---	10.6	7.0	8.5	11.7	10.2	11.0	10.9	9.4	10.5
5	---	---	---	10.0	7.1	8.2	10.9	10.0	10.3	11.2	10.0	10.5
6	---	---	---	9.2	7.2	8.2	12.7	10.2	11.7	13.3	11.2	12.2
7	---	---	---	11.6	8.0	9.7	13.3	11.3	12.0	13.7	13.2	13.4
8	---	---	---	12.2	9.3	10.6	13.9	11.5	12.5	13.5	12.8	13.2
9	9.0	5.2	6.6	12.5	10.1	11.1	12.6	11.2	11.6	13.1	12.7	12.9
10	8.3	4.8	6.0	12.4	10.2	11.1	11.4	11.1	11.2	13.8	12.9	13.4
11	8.6	4.4	6.0	10.3	8.9	9.7	12.4	11.3	11.9	13.9	12.7	13.4
12	7.7	4.4	5.5	9.4	8.6	9.0	14.2	12.4	13.2	13.4	12.5	12.9
13	8.8	4.2	6.2	10.7	9.2	10.1	14.5	13.2	13.7	13.3	12.5	12.8
14	6.5	5.2	5.8	11.5	10.5	10.9	14.5	12.9	13.6	14.1	12.3	13.1
15	8.4	6.2	7.0	11.1	10.2	10.6	14.5	12.6	13.3	13.6	12.2	13.0
16	9.3	6.4	7.6	10.4	9.5	10.1	13.6	11.6	12.5	14.0	12.9	13.4
17	8.3	6.0	6.9	10.9	9.3	10.1	12.6	11.7	12.2	13.7	12.4	13.2
18	9.7	6.9	8.1	9.7	8.4	9.2	13.7	12.4	12.9	12.5	11.9	12.3
19	9.8	7.0	8.0	8.9	8.3	8.5	13.8	12.4	13.1	13.4	12.4	13.1
20	10.0	6.8	8.0	9.9	8.9	9.3	14.6	12.5	13.5	14.0	13.4	13.6
21	9.2	6.4	7.5	10.1	8.8	9.4	14.6	13.0	13.6	14.2	13.4	13.7
22	9.7	6.4	7.8	10.2	8.3	9.3	13.6	11.5	12.6	14.0	13.4	13.7
23	10.4	7.2	8.4	10.1	8.0	8.8	11.8	11.0	11.3	---	---	---
24	11.5	7.8	9.0	10.3	8.0	9.1	12.0	11.2	11.7	---	---	---
25	10.8	8.0	9.1	11.9	10.3	11.0	13.7	11.8	12.6	---	---	---
26	9.0	6.9	8.0	11.8	9.8	10.8	14.7	12.6	13.4	---	---	---
27	10.1	8.3	9.0	9.9	9.2	9.6	14.8	12.6	13.4	14.2	13.2	13.7
28	---	---	---	10.0	9.0	9.4	14.5	12.0	13.1	14.2	13.1	13.6
29	---	---	---	10.8	9.9	10.4	13.8	10.8	12.1	14.3	13.2	13.6
30	---	---	---	11.0	9.9	10.5	12.1	11.1	11.6	14.3	13.3	13.6
31	11.4	7.9	9.4	---	---	---	13.7	11.8	12.5	14.2	13.2	13.6
MONTH	11.5	4.2	7.5	12.5	7.0	9.6	14.8	10.0	12.3	14.4	9.2	12.8
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.6	13.4	13.8	13.3	10.7	11.7	---	---	---	7.0	5.6	6.2
2	14.6	13.5	13.8	13.5	10.1	11.6	---	---	---	7.3	5.8	6.9
3	14.0	13.5	13.9	13.4	10.2	11.6	---	---	---	8.2	7.0	7.6
4	14.0	13.3	13.7	11.6	9.1	10.0	---	---	---	9.0	6.8	7.9
5	13.8	13.1	13.5	10.8	9.0	9.7	---	---	---	9.7	6.5	7.9
6	13.3	12.5	12.8	11.3	9.8	10.4	---	---	---	9.9	5.7	7.6
7	13.4	12.7	13.1	12.8	10.4	11.5	11.5	7.1	9.1	9.4	5.7	7.3
8	14.3	13.1	13.6	13.6	10.9	12.0	10.2	6.9	8.1	9.6	6.0	7.7
9	14.0	12.7	13.4	13.6	10.5	11.9	10.2	6.9	8.4	9.1	5.7	7.2
10	13.7	12.4	12.9	---	---	---	10.1	6.6	8.2	9.1	5.4	6.8
11	14.1	12.8	13.3	---	---	---	9.4	6.6	7.7	8.8	5.4	6.9
12	13.7	12.5	13.0	---	---	---	9.3	7.1	8.5	9.5	5.5	7.1
13	14.2	12.8	13.5	---	---	---	10.0	9.1	9.5	9.1	5.5	7.0
14	14.9	12.7	13.7	---	---	---	9.8	8.2	9.1	8.9	5.5	6.8
15	15.2	12.8	13.8	---	---	---	9.5	7.2	8.5	8.3	5.9	7.3
16	15.5	13.5	14.2	---	---	---	10.5	6.9	8.6	9.2	6.9	8.2
17	15.4	13.3	14.2	---	---	---	10.6	6.2	8.3	9.9	6.0	7.9
18	15.8	13.0	14.3	---	---	---	9.9	6.0	7.6	9.4	5.8	7.4
19	15.5	12.0	13.7	---	---	---	8.7	5.9	7.1	8.0	5.7	7.4
20	14.4	11.5	12.6	---	---	---	8.4	6.3	7.1	7.8	6.4	7.3
21	14.4	11.9	12.8	---	---	---	7.8	6.3	7.0	8.2	6.1	7.1
22	15.8	12.1	13.5	---	---	---	8.3	6.8	7.2	8.4	5.9	6.9
23	16.1	11.9	13.7	---	---	---	8.0	6.8	7.2	8.5	5.6	6.8
24	14.9	11.9	12.9	---	---	---	9.6	6.5	7.8	8.1	5.6	6.6
25	15.8	12.3	13.7	---	---	---	8.0	6.2	6.8	8.5	5.6	6.7
26	15.8	12.2	13.7	---	---	---	9.1	6.3	7.3	7.3	5.5	6.8
27	15.6	12.1	13.5	---	---	---	10.1	6.6	8.2	8.0	6.9	7.5
28	15.6	11.8	13.6	---	---	---	10.5	6.3	8.4	8.0	7.4	7.8
29	15.3	11.2	13.2	---	---	---	9.2	5.5	7.3	8.5	7.2	7.9
30	---	---	---	---	---	---	6.6	5.5	6.1	8.5	7.3	7.9
31	---	---	---	---	---	---	---	---	---	8.4	7.6	8.0
MONTH	16.1	11.2	13.5	13.6	9.0	11.2	11.5	5.5	7.9	9.9	5.4	7.3

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

TURBIDITY, WATER, UNFILTERED, NEPHELOMETRIC TURBIDITY UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	52	23	31	24	4.9	10	46	30	38	62	16	26
2	58	20	26	24	4.4	11	38	28	33	>1,000	36	340
3	38	17	23	31	3.9	13	36	27	29	>1,000	66	150
4	29	15	20	49	6.4	18	31	27	29	>1,000	230	690
5	32	13	20	32	5.8	15	59	29	37	>1,000	130	270
6	22	12	15	23	9.1	13	120	43	51	140	65	97
7	59	12	17	21	7.7	11	47	37	41	89	48	62
8	34	9.0	16	11	4.0	6.3	41	31	35	51	39	45
9	20	8.8	12	8.0	2.0	4.5	53	7.0	25	56	34	40
10	22	7.6	11	10	2.0	4.5	740	10	260	58	34	40
11	16	7.4	9.9	26	5.9	9.5	260	49	110	37	29	33
12	29	8.2	12	>1,000	16	510	51	22	32	41	26	28
13	41	6.0	16	470	98	190	63	13	18	47	26	31
14	110	8.0	33	140	65	79	24	10	14	45	25	32
15	77	19	34	140	52	60	21	8.0	12	30	22	24
16	130	12	19	93	49	58	660	8.8	150	24	21	22
17	30	12	15	74	34	44	360	34	120	63	21	25
18	26	8.1	12	>1,000	32	200	---	---	---	290	44	160
19	22	6.0	11	650	100	220	13	7.0	8.8	130	49	75
20	29	5.8	13	110	52	74	12	8.0	9.7	51	35	42
21	27	5.6	11	68	35	47	20	9.0	11	36	29	32
22	140	4.4	11	51	28	37	24	9.0	14	31	28	29
23	14	4.2	6.8	41	28	32	540	20	150	---	---	---
24	---	---	---	110	29	72	470	46	130	---	---	---
25	---	---	---	100	38	56	46	21	30	---	---	---
26	130	8.8	63	41	26	31	22	14	17	---	---	---
27	110	78	99	920	25	230	22	12	15	20	14	15
28	190	27	61	310	100	170	100	9.0	16	23	12	13
29	250	15	31	100	48	69	340	10	35	23	10	12
30	30	9.0	15	71	38	48	520	66	210	57	8.0	9.6
31	45	4.5	13	---	---	---	66	23	38	22	6.0	8.9
MONTH	250	4.2	23	1,000	2.0	78	740	7.0	57	1,000	6.0	87
	FEBRUARY			MARCH			APRIL			MAY		
1	14	5.0	6.3	51	4.0	20	68	29	44	>1,000	140	310
2	120	5.0	11	49	14	19	46	26	33	840	130	330
3	760	100	340	230	9.8	21	69	25	36	190	50	110
4	110	47	65	>1,000	120	420	58	19	24	100	49	76
5	980	43	220	170	59	92	46	17	20	120	48	77
6	640	130	240	200	72	120	29	4.0	15	140	61	110
7	140	39	75	90	38	52	---	---	---	150	75	97
8	73	26	37	47	24	32	---	---	---	99	56	68
9	37	22	26	37	21	26	---	---	---	79	47	55
10	190	24	59	28	21	24	26	6.6	11	84	44	57
11	190	38	79	36	20	23	25	7.0	13	78	49	59
12	44	24	31	29	17	20	170	9.3	54	86	46	61
13	---	---	---	24	17	20	>1,000	120	380	91	52	64
14	---	---	---	28	16	20	510	76	170	86	53	67
15	---	---	---	32	16	20	94	41	59	250	74	130
16	---	---	---	37	19	25	55	20	32	120	68	90
17	10	2.0	5.2	39	21	24	45	18	24	91	62	73
18	8.0	1.9	3.0	54	20	26	36	19	24	88	31	68
19	19	1.8	4.7	42	18	28	47	23	33	>1,000	34	440
20	72	3.8	18	74	19	24	77	36	44	210	29	120
21	210	12	27	27	15	20	78	36	46	130	35	95
22	27	7.6	12	25	14	16	220	47	86	100	36	80
23	18	4.5	7.6	19	15	16	170	88	110	97	38	71
24	9.5	5.4	7.1	42	14	19	94	56	71	93	34	63
25	32	3.3	5.9	30	20	22	130	56	89	72	28	53
26	20	1.3	3.3	42	18	25	130	62	87	740	10	220
27	4.2	1.2	2.7	43	8.8	16	79	63	70	750	6.5	260
28	5.1	1.1	2.8	42	8.7	12	89	62	71	850	5.5	210
29	8.0	2.0	3.7	260	12	39	97	73	82	700	20	200
30	---	---	---	320	64	140	940	88	260	760	26	230
31	---	---	---	64	34	47	---	---	---	>1,000	9.3	310
MONTH	980	1.1	52	1,000	4.0	46	1,000	4.0	74	1,000	5.5	140

LICKING RIVER BASIN

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

TURBIDITY, WATER, UNFILTERED, NEPHELOMETRIC TURBIDITY UNITS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	580	34	200	---	---	---	---	---	---	220	88	130
2	95	41	69	---	---	---	---	---	---	300	65	120
3	84	51	64	---	---	---	---	---	---	410	66	180
4	75	30	53	---	---	---	---	---	---	200	120	160
5	---	---	---	---	---	---	---	---	---	160	94	130
6	---	---	---	---	---	---	---	---	---	180	60	110
7	---	---	---	---	---	---	---	---	---	130	65	89
8	---	---	---	---	---	---	---	---	---	790	85	280
9	---	---	---	---	---	---	---	---	---	240	74	120
10	---	---	---	---	---	---	---	---	---	99	52	69
11	---	---	---	---	---	---	---	---	---	120	44	82
12	110	31	50	---	---	---	---	---	---	120	35	65
13	78	28	46	---	---	---	---	---	---	130	35	69
14	100	24	38	---	---	---	---	---	---	93	27	54
15	990	23	240	---	---	---	---	---	---	110	34	57
16	990	84	320	---	---	---	---	---	---	110	29	54
17	160	62	89	---	---	---	---	---	---	2,500	28	590
18	990	70	880	---	---	---	---	---	---	410	220	310
19	---	---	---	---	---	---	---	---	---	300	140	200
20	---	---	---	---	---	---	---	---	---	170	65	110
21	---	---	---	---	---	---	---	---	---	170	56	110
22	---	---	---	---	---	---	---	---	---	120	40	66
23	---	---	---	---	---	---	---	---	---	100	34	57
24	---	---	---	---	---	---	---	---	---	83	29	50
25	---	---	---	---	---	---	---	---	---	78	32	53
26	---	---	---	---	---	---	---	---	---	96	45	63
27	---	---	---	---	---	---	---	---	---	93	35	54
28	---	---	---	---	---	---	2,600	65	480	83	44	62
29	---	---	---	---	---	---	2,600	200	800	73	41	53
30	---	---	---	2,700	210	1,900	360	110	170	51	28	38
31	---	---	---	2,700	380	1,400	300	91	140	---	---	---
MONTH	990	23	190	2,700	210	1,600	2,600	65	400	2,500	27	120
YEAR	2,700	1.1	96									

> Actual value is known to be greater than the value shown

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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 mi².

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder with telemetry. 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

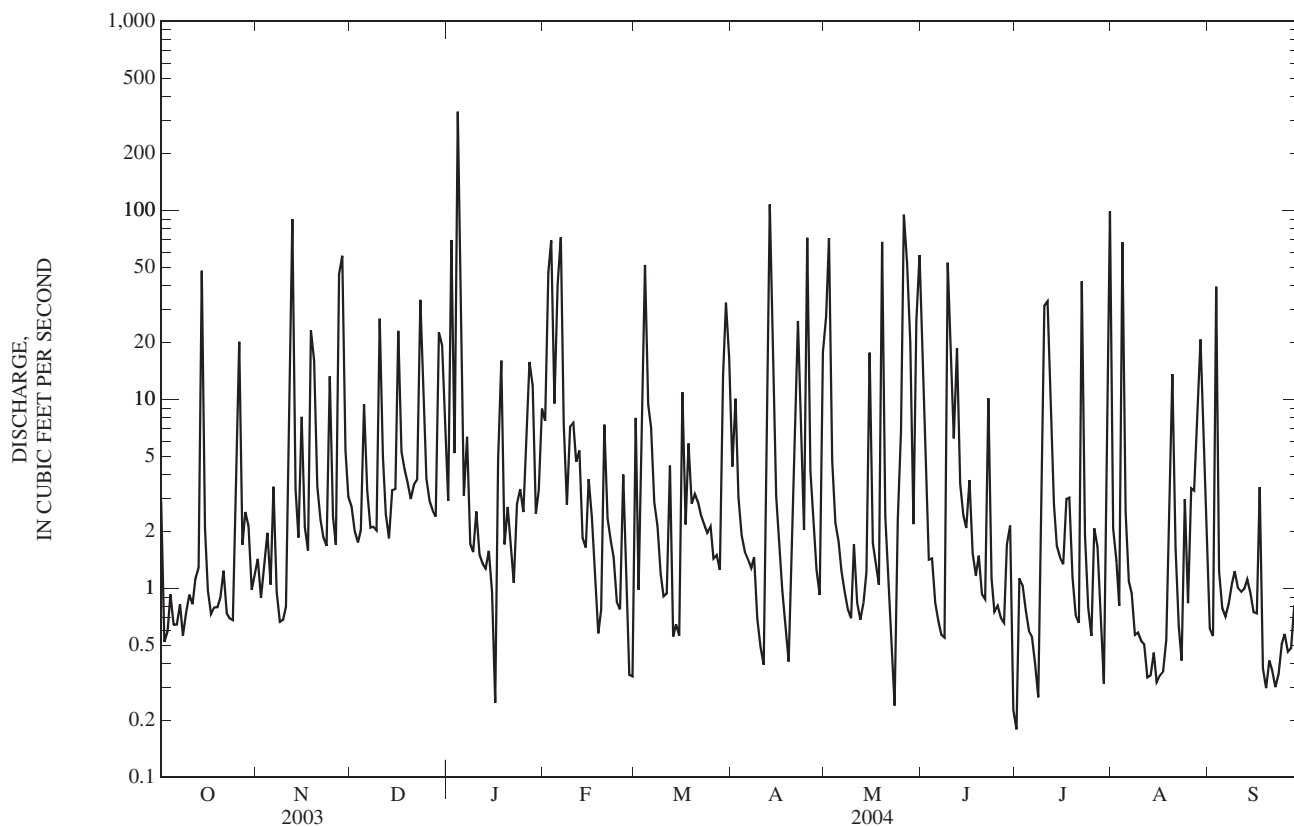
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	1.4	2.7	2.9	7.7	8.0	4.4	27	8.5	0.18	2.1	0.62
2	0.52	0.89	2.0	69	47	0.98	10	71	2.8	1.1	1.4	0.56
3	0.59	1.3	1.8	5.2	69	5.4	3.1	4.7	1.4	1.0	0.81	39
4	0.93	2.0	2.0	332	9.5	51	1.9	2.2	1.4	0.76	68	1.2
5	0.64	1.0	9.4	58	40	9.4	1.6	1.8	0.84	0.60	2.5	0.79
6	0.65	3.5	3.3	3.1	72	7.1	1.4	1.2	0.67	0.56	1.1	0.71
7	0.82	0.96	2.1	6.3	7.4	2.9	1.3	0.96	0.57	0.40	0.94	0.83
8	0.56	0.67	2.1	1.7	2.8	2.1	1.5	0.77	0.55	0.27	0.57	1.1
9	0.74	0.68	2.0	1.6	7.2	1.2	0.69	0.70	53	6.1	0.58	1.2
10	0.93	0.80	27	2.6	7.5	0.91	0.49	1.7	17	31	0.53	1.0
11	0.82	5.8	5.0	1.5	4.7	0.94	0.39	0.84	6.2	33	0.51	0.96
12	1.1	90	2.5	1.3	5.4	4.5	17	0.68	19	8.8	0.34	1.00
13	1.3	3.4	1.8	1.3	1.8	0.56	107	0.85	3.6	2.8	0.35	1.1
14	48	1.9	3.3	1.6	1.6	0.65	26	1.2	2.4	1.7	0.46	0.94
15	2.1	8.1	3.4	0.96	3.8	0.56	3.1	18	2.1	1.5	0.32	0.75
16	0.98	2.1	23	0.25	2.4	11	1.7	1.7	3.7	1.3	0.35	0.74
17	0.73	1.6	5.3	4.8	1.2	2.2	0.98	1.3	1.5	3.0	0.36	3.4
18	0.79	23	4.2	16	0.58	5.8	0.63	1.0	1.2	3.0	0.53	0.38
19	0.80	16	3.6	1.7	0.77	2.8	0.41	68	1.5	1.1	1.6	0.30
20	0.89	3.5	3.0	2.7	7.3	3.1	0.97	2.4	0.93	0.72	14	0.41
21	1.2	2.3	3.5	1.7	2.3	2.8	4.7	0.93	0.88	0.66	1.6	0.37
22	0.74	1.9	3.8	1.1	1.8	2.4	26	0.47	10	42	0.63	0.30
23	0.69	1.7	34	2.8	1.5	2.2	7.7	0.24	1.1	1.9	0.42	0.35
24	0.68	13	12	3.4	0.85	2.0	2.0	2.3	0.75	0.79	3.0	0.51
25	3.3	2.4	3.8	2.5	0.78	2.1	71	6.8	0.81	0.56	0.84	0.57
26	20	1.7	2.9	6.4	4.0	1.4	4.2	95	0.70	2.1	3.4	0.46
27	1.7	46	2.6	16	1.1	1.5	2.2	52	0.66	1.7	3.3	0.48
28	2.5	57	2.4	12	0.35	1.3	1.3	20	1.7	0.67	9.6	0.81
29	2.1	5.4	23	2.5	0.34	13	0.92	2.2	2.2	0.31	21	0.56
30	0.98	3.0	19	3.3	---	32	18	26	0.23	3.0	6.4	0.72
31	1.2	---	7.2	8.9	---	17	---	58	---	98	2.4	---
TOTAL	101.88	303.00	223.7	575.11	312.67	198.80	322.58	471.94	147.89	250.58	149.94	62.12
MEAN	3.29	10.1	7.22	18.6	10.8	6.41	10.8	15.2	4.93	8.08	4.84	2.07
MAX	48	90	34	332	72	51	107	95	53	98	68	39
MIN	0.52	0.67	1.8	0.25	0.34	0.56	0.39	0.24	0.23	0.18	0.32	0.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

MEAN	6.00	5.37	6.05	9.03	8.72	7.56	8.28	13.4	5.51	4.42	2.74	5.44
MAX	14.6	10.1	14.8	18.6	18.6	15.0	16.5	21.9	7.59	8.49	5.38	12.2
(WY)	(2002)	(2004)	(2002)	(2004)	(2000)	(2002)	(2002)	(2002)	(2002)	(2003)	(2003)	(2003)
MIN	1.06	0.86	1.72	1.62	2.85	1.79	1.57	4.27	3.22	0.80	0.63	0.01
(WY)	(2001)	(2000)	(2003)	(2003)	(2003)	(2001)	(2001)	(2001)	(2001)	(2002)	(2002)	(2001)

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

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2000 - 2004	
ANNUAL TOTAL	2,731.10		3,120.21		6.87	
ANNUAL MEAN	7.48		8.53		2.22	
HIGHEST ANNUAL MEAN					10.5	2002
LOWEST ANNUAL MEAN					2.22	2001
HIGHEST DAILY MEAN	310	May 10	332	Jan 4	332	Jan 4, 2004
LOWEST DAILY MEAN	0.16	Aug 18	0.18	Jul 1	0.00	Oct 2, 1999
ANNUAL SEVEN-DAY MINIMUM	0.44	Jun 28	0.37	Sep 18	0.00	Oct 15, 1999
MAXIMUM PEAK FLOW			871	May 26	1,510	May 10, 2003
MAXIMUM PEAK STAGE			4.31	May 26	7.34	May 10, 2003
10 PERCENT EXCEEDS	18		22		13	
50 PERCENT EXCEEDS	1.8		1.8		1.4	
90 PERCENT EXCEEDS	0.57		0.56		0.19	



03260100 ELIJAH'S CREEK AT ELIJAH'S CREEK ROAD NEAR HEBRON, KY

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2002 to September 2003.

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.

pH: Records rated good except for the following periods: Oct. 16-25 rated fair; Oct. 26-Nov. 4 rated poor.

WATER TEMPERATURES: Records rated excellent except for the following periods; Jun. 13-19 rated good; Jun. 7-12 rated fair; Jun. 4-8 rated poor.

DISSOLVED OXYGEN: Records rated poor.

TURBIDITY: No data available.

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; minimum recorded, 5.9 units, Nov. 4, 2003.

WATER TEMPERATURES: Maximum recorded, 29.6°C, July 8, 2003; minimum recorded, -0.3°C, Dec. 20, 21, 2003.

DISSOLVED OXYGEN: Maximum recorded, 19.9 mg/L, May 6, 2001; minimum recorded, 0.5 mg/L, May 19, 2001.

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 11,800 microsiemens, Dec. 14, 2003; minimum recorded, 81 microsiemens, Sept. 3, 2004.

pH: Maximum recorded, 8.6 units, Sept. 3, 14, 2004; minimum recorded, 5.9 units, Nov. 4, 2003.

WATER TEMPERATURES: Maximum recorded, 27.4°C, Aug. 28, 2004; minimum recorded, -0.3°C, Dec. 20, 21, 2003.

DISSOLVED OXYGEN: Maximum recorded, 12.5 mg/L, Dec. 19, 2003; minimum recorded, 2.1 mg/L, Nov. 5, 2003.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	869	454	520	953	833	891	1,260	1,180	1,230	---	---	---
2	695	581	621	866	788	822	1,320	1,220	1,280	---	---	---
3	830	695	757	850	720	821	1,380	1,180	1,320	---	---	---
4	902	823	864	2,150	833	1,900	1,400	1,300	1,340	---	---	---
5	937	895	918	1,930	1,270	1,530	1,950	1,010	1,290	---	---	---
6	1,000	864	920	1,270	578	949	1,330	1,130	1,250	---	---	---
7	1,140	969	1,030	751	608	692	1,400	1,330	1,360	---	---	---
8	1,050	1,020	1,040	824	751	781	1,680	1,260	1,450	---	---	---
9	1,100	1,050	1,080	894	824	868	1,780	1,510	1,620	---	---	---
10	1,100	989	1,040	1,000	894	947	1,560	949	1,140	---	---	---
11	1,050	1,010	1,030	1,030	404	874	1,340	1,110	1,240	---	---	---
12	1,050	1,020	1,040	754	260	514	1,420	1,310	1,370	---	---	---
13	1,060	974	1,030	852	742	805	1,490	1,410	1,450	---	---	---
14	1,110	161	674	985	851	932	11,800	1,490	3,780	---	---	---
15	676	444	583	975	560	738	11,300	3,890	6,530	---	---	---
16	788	665	714	965	760	878	3,900	1,560	2,710	---	---	---
17	869	625	727	1,070	965	1,020	1,920	1,640	1,800	---	---	---
18	934	851	886	1,120	502	936	9,550	1,920	4,150	---	---	---
19	882	819	841	808	609	695	7,530	2,870	5,300	---	---	---
20	914	882	897	1,000	808	909	3,430	2,680	3,160	---	---	---
21	1,050	913	973	1,080	987	1,030	3,310	2,570	2,810	---	---	---
22	1,020	800	904	1,140	1,080	1,120	---	---	---	---	---	---
23	989	839	947	1,180	1,140	1,160	---	---	---	---	---	---
24	990	915	981	1,190	563	853	---	---	---	---	---	---
25	990	532	916	1,050	877	977	---	---	---	---	---	---
26	577	292	441	1,160	1,050	1,120	---	---	---	---	---	---
27	845	577	723	1,200	585	895	---	---	---	---	---	---
28	833	694	810	897	645	749	---	---	---	---	---	---
29	728	649	667	1,120	897	1,030	---	---	---	---	---	---
30	831	728	811	1,220	1,120	1,180	---	---	---	---	---	---
31	879	826	859	---	---	---	---	---	---	---	---	---
MONTH	1,140	161	847	2,150	260	954	11,800	949	2,270	---	---	---

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

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.3	11.2	12.5	16.9	14.8	15.7	5.3	3.2	4.4	---	---	---
2	11.9	9.0	10.3	17.7	13.3	15.3	3.7	1.2	2.5	---	---	---
3	11.1	7.4	9.4	17.5	12.5	14.8	3.4	2.6	2.9	---	---	---
4	13.3	10.7	11.8	17.4	13.3	15.2	4.6	2.5	3.3	---	---	---
5	14.6	10.4	12.4	17.9	14.0	16.1	6.9	4.6	5.8	---	---	---
6	14.7	11.3	13.0	14.0	10.6	12.3	5.5	4.5	5.0	---	---	---
7	15.0	10.4	12.7	10.7	6.9	9.0	4.8	3.0	4.1	---	---	---
8	15.9	11.7	13.7	7.5	4.6	5.9	5.0	2.1	3.4	---	---	---
9	16.8	12.5	14.7	6.5	2.6	4.6	7.3	5.0	6.1	---	---	---
10	18.7	15.4	16.8	8.8	3.2	6.2	8.7	7.1	8.0	---	---	---
11	18.8	15.5	17.0	13.5	8.4	10.5	7.1	3.4	5.1	---	---	---
12	18.1	14.5	16.7	15.6	11.9	14.2	3.4	1.0	2.0	---	---	---
13	15.6	11.7	13.8	11.9	5.3	7.6	1.0	0.3	0.6	---	---	---
14	16.9	13.5	14.6	6.6	3.6	5.2	1.6	0.1	0.7	---	---	---
15	14.0	11.4	12.9	7.9	6.0	7.2	2.7	1.5	2.0	---	---	---
16	14.4	10.4	12.5	9.7	7.7	8.5	5.7	1.7	3.6	---	---	---
17	13.7	11.0	12.7	9.8	6.3	8.2	4.4	1.3	2.7	---	---	---
18	12.3	8.6	10.6	14.1	9.5	11.6	2.1	0.8	1.4	---	---	---
19	13.9	9.7	11.7	13.4	10.0	12.5	2.0	0.6	1.4	---	---	---
20	15.3	10.1	12.7	10.6	7.5	9.2	0.7	-0.3	0.1	---	---	---
21	15.9	13.3	14.5	11.0	7.8	9.4	0.5	-0.3	0.1	---	---	---
22	14.2	10.3	11.9	12.2	8.2	10.2	---	---	---	---	---	---
23	11.9	9.0	10.2	14.0	11.0	12.4	---	---	---	---	---	---
24	10.5	6.7	8.9	12.8	4.7	8.8	---	---	---	---	---	---
25	15.0	9.0	11.7	5.4	3.1	4.3	---	---	---	---	---	---
26	14.7	11.2	12.8	6.9	4.3	5.6	---	---	---	---	---	---
27	11.2	8.7	10	9.2	6.8	8.0	---	---	---	---	---	---
28	10.6	8.3	9.3	9.3	4.9	7.1	---	---	---	---	---	---
29	11.1	8.7	10.1	4.9	3.7	4.3	---	---	---	---	---	---
30	13.6	8.5	11.1	6.0	2.9	4.4	---	---	---	---	---	---
31	16.0	11.6	13.8	---	---	---	---	---	---	---	---	---
MONTH	18.8	6.7	12.5	17.9	2.6	9.5	8.7	-0.3	3.1	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	19.3	15.4	17.0
2	---	---	---	---	---	---	---	---	---	16.8	11.3	12.9
3	---	---	---	---	---	---	---	---	---	14.0	9.0	11.4
4	---	---	---	---	---	---	---	---	---	14.1	8.8	11.5
5	---	---	---	---	---	---	---	---	---	18.5	11.7	14.9
6	---	---	---	---	---	---	---	---	---	20.3	13.6	17.1
7	---	---	---	---	---	---	---	---	---	20.4	16.5	18.5
8	---	---	---	---	---	---	18.6	12.6	15.0	21.1	15.1	18.3
9	---	---	---	---	---	---	16.6	9.8	13.2	22.6	16.9	19.7
10	---	---	---	---	---	---	17.2	10.3	13.3	23.0	18.2	20.4
11	---	---	---	---	---	---	16.0	11.6	13.2	22.9	18.5	20.7
12	---	---	---	---	---	---	11.9	8.2	9.5	24.0	18.9	21.3
13	---	---	---	---	---	---	8.2	3.7	6.3	22.4	19.7	21.0
14	---	---	---	---	---	---	13.5	4.8	8.6	21.7	19.7	20.7
15	---	---	---	---	---	---	15.8	6.9	11.1	20.2	15.8	17.0
16	---	---	---	---	---	---	18.3	9.8	14.0	18.3	15.4	16.6
17	---	---	---	---	---	---	20.6	12.2	16.3	21.6	16.1	18.8
18	---	---	---	---	---	---	21.9	14.7	18.2	23.5	18.7	20.9
19	---	---	---	---	---	---	18.9	15.9	17.1	22.7	18.9	20.6
20	---	---	---	---	---	---	17.4	14.8	16.1	22.9	19.7	21.3
21	---	---	---	---	---	---	16.4	14.9	15.6	24.3	21.0	22.7
22	---	---	---	---	---	---	15.9	14.4	15.0	25.2	21.3	23.2
23	---	---	---	---	---	---	14.6	12.8	13.6	25.4	21.4	23.1
24	---	---	---	---	---	---	17.1	10.9	14.0	25.5	21.7	23.0
25	---	---	---	---	---	---	18.2	13.4	15.6	24.7	20.5	22.3
26	---	---	---	---	---	---	17.2	12.5	14.9	21.6	18.9	20.0
27	---	---	---	---	---	---	14.4	10.6	12.6	22.4	17.9	19.8
28	---	---	---	---	---	---	16.1	8.7	12.5	21.8	18.5	20.0
29	---	---	---	---	---	---	18.0	12.3	15.2	20.8	17.0	18.9
30	---	---	---	---	---	---	17.4	14.6	16.0	21.4	17.7	19.6
31	---	---	---	---	---	---	---	---	---	21.8	18.7	20.1
MONTH	---	---	---	---	---	---	21.9	3.7	13.8	25.5	8.8	19.1

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

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.8	7.0	8.2	---	---	---	---	---	---	---	---	---
2	9.5	6.9	8.2	---	---	---	---	---	---	---	---	---
3	9.7	6.8	8.2	---	---	---	---	---	---	---	---	---
4	9.6	6.2	7.8	---	---	---	---	---	---	---	---	---
5	10.3	7.7	8.7	3.2	2.1	2.5	---	---	---	---	---	---
6	10.1	7.6	8.6	8.6	2.8	5.1	---	---	---	---	---	---
7	10.1	6.7	8.5	6.2	5.1	5.5	---	---	---	---	---	---
8	8.4	5.9	6.8	6.9	5.3	6.0	---	---	---	---	---	---
9	8.2	4.7	6.4	7.6	5.9	6.6	---	---	---	---	---	---
10	7.4	4.4	6.1	7.0	4.7	6.1	---	---	---	---	---	---
11	7.2	5.7	6.2	7.7	3.7	5.4	---	---	---	---	---	---
12	7.2	5.6	6.4	8.3	3.2	5.4	---	---	---	---	---	---
13	8.0	6.6	7.3	---	---	---	---	---	---	---	---	---
14	8.6	6.6	7.2	---	---	---	---	---	---	---	---	---
15	7.1	6.2	6.8	---	---	---	---	---	---	---	---	---
16	8.5	7.0	7.8	---	---	---	---	---	---	---	---	---
17	9.0	7.5	8.2	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	12.5	9.9	11.2	---	---	---
21	---	---	---	---	---	---	10.5	2.4	7.1	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	10.3	4.4	7.5	8.6	2.1	5.3	12.5	2.4	9.2	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	6.9	3.8	5.4
2	---	---	---	---	---	---	---	---	---	6.7	4.2	5.1
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	6.4	4.1	4.9	---	---	---
9	---	---	---	---	---	---	6.2	4.1	5.2	---	---	---
10	---	---	---	---	---	---	5.7	4.0	4.7	---	---	---
11	---	---	---	---	---	---	5.6	4.2	4.8	---	---	---
12	---	---	---	---	---	---	6.8	4.4	5.3	---	---	---
13	---	---	---	---	---	---	---	---	---	8.5	6.6	7.7
14	---	---	---	---	---	---	---	---	---	8.4	4.7	6.8
15	---	---	---	---	---	---	---	---	---	8.1	4.5	6.6
16	---	---	---	---	---	---	---	---	---	8.3	6.5	7.4
17	---	---	---	---	---	---	---	---	---	9.0	5.8	7.4
18	---	---	---	---	---	---	---	---	---	5.8	3.4	4.4
19	---	---	---	---	---	---	---	---	---	9.0	3.5	8.3
20	---	---	---	---	---	---	---	---	---	8.7	7.4	8.1
21	---	---	---	---	---	---	---	---	---	8.8	7.4	8.1
22	---	---	---	---	---	---	---	---	---	8.9	7.4	8.1
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	11.1	7.8	9.4	---	---	---
29	---	---	---	---	---	---	10.6	6.4	8.6	---	---	---
30	---	---	---	---	---	---	7.6	5.9	6.5	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	11.1	4.0	6.2	9.0	3.4	7.0

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

TURBIDITY, WATER, UNFILTERED, NEPHELOMETRIC TURBIDITY UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	1,000	74	330
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	55	17	23	---	---	---
10	---	---	---	---	---	---	24	15	20	---	---	---
11	---	---	---	---	---	---	29	18	21	---	---	---
12	---	---	---	---	---	---	28	17	21	---	---	---
13	---	---	---	---	---	---	780	16	210	---	---	---
14	---	---	---	---	---	---	---	---	---	210	92	94
15	---	---	---	---	---	---	---	---	---	350	170	220
16	---	---	---	---	---	---	---	---	---	300	180	190
17	---	---	---	---	---	---	---	---	---	290	180	200
18	---	---	---	---	---	---	---	---	---	280	150	190
19	---	---	---	---	---	---	---	---	---	1,000	150	420
20	---	---	---	---	---	---	---	---	---	300	99	130
21	---	---	---	---	---	---	---	---	---	110	80	91
22	---	---	---	---	---	---	---	---	---	110	74	84
23	---	---	---	---	---	---	---	---	---	110	55	72
24	---	---	---	---	---	---	---	---	---	91	68	72
25	---	---	---	---	---	---	---	---	---	620	71	93
26	---	---	---	---	---	---	---	---	---	860	64	210
27	---	---	---	---	---	---	---	---	---	70	67	68
28	---	---	---	---	---	---	---	---	---	140	69	110
29	---	---	---	---	---	---	52	40	43	130	92	110
30	---	---	---	---	---	---	480	40	150	150	75	82
31	---	---	---	---	---	---	---	---	---	83	78	80
MONTH	---	---	---	---	---	---	780	15	70	1,000	55	150

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03262001 WOOLPER CREEK AT WOOLPER CREEK ROAD NEAR BURLINGTON, KY

LOCATION.--Lat 39°01'48", long 84°48'15", Boone County, Hydrologic Unit 05090203, at bridge, 1.0 mi upstream from Ashby Fork, 1.1 mi downstream from Double Lick Creek, 4.3 mi west of Burlington, and at mile 4.8.

DRAINAGE AREA.--24.19 mi².

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder with telemetry. Datum of gage is 490.67 ft NGVD of 1929.

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

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	2.9	19	25	18	17	63	162	45	0.72	14	2.3
2	3.6	2.9	14	293	37	17	54	421	24	0.76	4.6	1.3
3	2.4	2.6	12	60	253	14	40	70	13	2.1	2.5	84
4	2.4	2.5	11	1,550	55	225	26	35	10	1.0	197	9.1
5	2.4	2.4	25	338	146	60	21	25	7.1	0.70	29	3.9
6	2.2	2.6	23	66	396	43	18	21	5.6	0.59	7.3	2.6
7	2.0	3.6	15	43	82	28	17	15	4.5	0.53	3.7	2.1
8	1.9	2.3	13	31	39	24	16	12	3.6	0.44	2.4	1.9
9	1.9	1.9	12	25	38	20	12	9.5	74	7.1	1.9	1.9
10	2.2	1.8	65	25	60	17	11	7.8	50	6.4	1.7	1.7
11	2.7	2.2	41	20	47	16	10	7.3	12	13	1.4	1.6
12	3.3	267	21	16	38	14	27	5.7	30	25	1.2	1.5
13	3.5	30	16	17	32	12	420	4.8	22	17	1.2	1.5
14	63	15	17	17	27	13	249	4.6	11	2.7	1.1	1.4
15	16	20	15	14	20	12	46	16	9.9	1.4	0.88	1.3
16	5.1	16	65	11	19	24	28	10	13	0.96	0.73	1.3
17	3.3	12	48	13	19	19	21	5.6	7.4	0.80	0.64	1.3
18	2.8	49	27	63	17	21	17	5.0	4.6	0.99	0.60	1.1
19	2.6	100	23	28	15	21	14	105	3.6	0.84	1.4	1.4
20	2.5	32	17	30	21	20	14	32	2.7	0.63	7.2	1.1
21	2.4	19	22	17	28	24	18	12	2.3	0.55	6.2	0.85
22	2.4	14	18	14	18	17	79	7.5	6.4	16	1.7	0.74
23	2.4	12	120	21	17	15	117	5.3	3.1	2.9	1.1	0.67
24	2.5	42	92	17	16	16	35	3.9	1.9	1.4	1.3	0.75
25	4.0	21	34	17	14	14	216	3.0	1.5	0.91	1.5	0.75
26	38	15	23	26	13	13	57	150	1.4	0.98	1.6	0.62
27	10	184	19	36	12	13	30	235	1.2	1.2	1.9	0.42
28	5.1	297	17	23	11	12	21	190	1.0	1.2	31	0.33
29	6.1	57	39	15	11	16	16	29	0.94	1.4	18	0.32
30	4.0	28	125	16	---	118	40	92	0.77	e1.7	7.8	0.32
31	3.1	---	35	15	---	148	---	303	---	283	2.5	---
TOTAL	211.6	1,257.7	1,043	2,902	1,519	1,043	1,753	2,005.0	373.51	394.90	355.05	130.07
MEAN	6.83	41.9	33.6	93.6	52.4	33.6	58.4	64.7	12.5	12.7	11.5	4.34
MAX	63	297	125	1,550	396	225	420	421	74	283	197	84
MIN	1.9	1.8	11	11	11	12	10	3.0	0.77	0.44	0.60	0.32

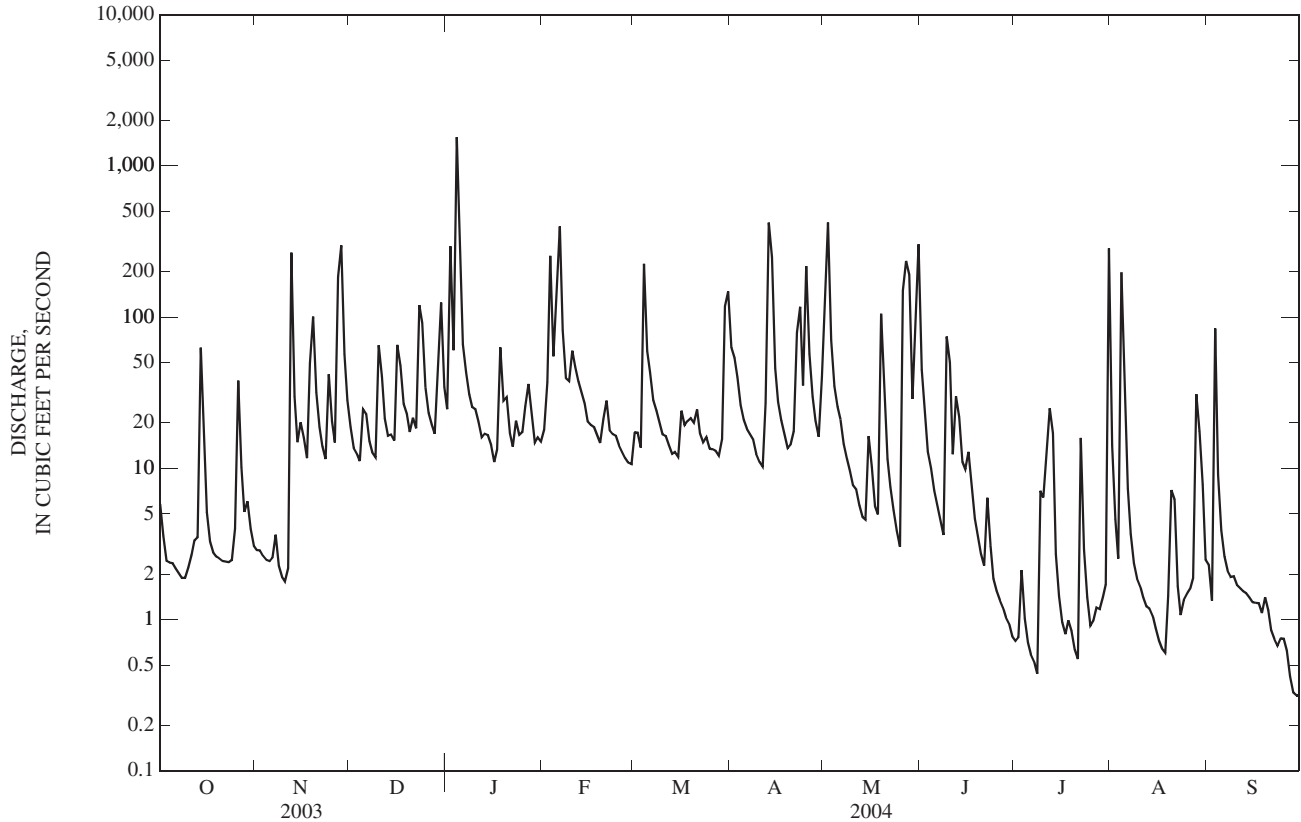
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

MEAN	35.0	39.2	58.8	45.7	43.2	38.8	46.1	66.0	27.3	20.6	11.6	19.4
MAX	72.7	45.1	84.1	93.6	59.7	69.3	104	114	34.8	56.5	29.0	31.6
(WY)	(2002)	(2002)	(2002)	(2004)	(2003)	(2002)	(2002)	(2002)	(2003)	(2001)	(2001)	(2003)
MIN	6.83	30.7	33.6	14.0	28.0	11.0	6.34	15.3	12.5	0.33	0.13	4.34
(WY)	(2004)	(2003)	(2004)	(2001)	(2001)	(2001)	(2001)	(2001)	(2004)	(2002)	(2002)	(2004)

03262001 WOOLPER CREEK AT WOOLPER CREEK ROAD NEAR BURLINGTON, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL TOTAL	11,904.48		12,987.83			
ANNUAL MEAN	32.6		35.5		40.9	
HIGHEST ANNUAL MEAN					50.5	2002
LOWEST ANNUAL MEAN					35.5	2004
HIGHEST DAILY MEAN	934	May 10	1,550	Jan 4	1,550	Jan 4, 2004
LOWEST DAILY MEAN	0.21	Aug 21	0.32	Sep 29	0.00	Jul 27, 2002
ANNUAL SEVEN-DAY MINIMUM	0.47	Aug 15	0.50	Sep 24	0.00	Aug 5, 2002
MAXIMUM PEAK FLOW			3,120	Jan 4	6,640	Jul 18, 2001
MAXIMUM PEAK STAGE			7.90	Jan 4	12.17	Jul 18, 2001
INSTANTANEOUS LOW FLOW			0.60	Sep 29	0.00	Sep 14, 2002
10 PERCENT EXCEEDS	61		65		73	
50 PERCENT EXCEEDS	11		14		12	
90 PERCENT EXCEEDS	2.0		1.2		0.80	

e Estimated



03262001 WOOLPER CREEK AT WOOLPER ROAD NEAR BURLINGTON, KY

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 2002 to September 2004.

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 2000 to current water year.

pH: December 2000 to current year.

WATER TEMPERATURES: December 2000 to current water year.

DISSOLVED OXYGEN: December 2000 to current water year.

TURBIDITY: December 2000 to current water year.

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

REMARKS.--

SPECIFIC CONDUCTANCE: Records rated good.

pH: Records rated good.

WATER TEMPERATURES: Records rated excellent except for the following periods: Jun. 21-27 rated good; Jun. 28-29 rated fair.

DISSOLVED OXYGEN: Records rated poor.

TURBIDITY: Records poor.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2550 microsiemens, Jan. 27, 28, 2004; minimum recorded, 96 microsiemens, May 8, 2002.

pH: Maximum recorded, 8.8 units, Mar. 14, 16-18, Apr. 1, 2, 2003, and Apr. 3, 2004; minimum recorded, 7.3 units, Jul. 6, 2004.

WATER TEMPERATURES: Maximum recorded, 31.8°C, Jul. 4, 2002; minimum recorded, -0.3°C, several days in Jan. Feb. Mar. 2002, 2003 and 2004.

DISSOLVED OXYGEN: Maximum recorded, 20.0 mg/L, Dec. 4, 6, 2000; minimum recorded, 2.3 mg/L, Aug. 19, 2002.

TURBIDITY: Maximum recorded, 2500 NTU, Jul. 31 and Sept. 3, 2004; minimum recorded, 0.0 NTU, Nov., Jul. 7-9, 2002, and Nov. 8-11, Jun. 8, 21, 2004.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2550 microsiemens, Jan. 27, 28, 2004; minimum recorded, 157 microsiemens, Jan. 4, 2004.

pH: Maximum recorded, 8.8 units, Apr. 3, 2004; minimum recorded, 7.3 units, Jul. 6, 9, 2004.

WATER TEMPERATURES: Maximum recorded, 29.5°C, Jul. 5, 2004; minimum recorded, -0.3°C, Jan. 27-30, Feb. 3, 14, 17, 2004

DISSOLVED OXYGEN: Maximum recorded, 16.0 mg/L, Apr. 7, 2004; minimum recorded, 3.9 mg/L, July 6, 2004.

TURBIDITY: Maximum recorded, 2500 NTU, Jul. 31 and Sept. 3, 2004; minimum recorded, 0.0 NTU, Nov. 8-11, Jun. 8, 21, 2004.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	580	556	569	615	604	611	539	521	531	572	555	566
2	598	580	590	619	608	614	550	537	544	568	277	386
3	601	578	591	622	611	617	562	548	554	519	449	492
4	615	599	607	627	616	621	573	560	567	518	157	245
5	612	599	607	632	625	629	571	549	564	393	179	312
6	611	602	607	634	623	630	560	504	521	467	393	434
7	618	603	611	640	628	632	545	515	531	514	467	493
8	625	608	616	651	637	643	558	545	550	534	514	523
9	625	608	618	648	638	641	607	557	580	663	526	586
10	630	617	623	648	639	642	581	400	510	961	663	797
11	636	621	629	646	633	642	494	406	453	954	827	914
12	644	628	634	635	212	365	532	494	516	827	673	733
13	655	629	637	501	427	472	558	532	545	673	657	662
14	657	337	521	544	501	524	590	556	568	665	644	656
15	446	347	399	590	541	553	843	564	718	654	625	640
16	518	446	486	587	559	570	910	547	796	632	623	627
17	548	518	535	580	561	570	555	522	536	633	603	622
18	574	547	558	595	403	567	601	555	567	923	601	718
19	586	572	577	422	369	398	1,030	601	874	634	582	592
20	594	584	589	508	421	470	1,310	1,030	1,200	624	584	601
21	605	593	599	544	508	528	1,170	1,010	1,080	627	614	618
22	609	598	603	565	542	554	1,010	803	865	629	617	622
23	617	601	608	566	553	559	804	484	714	659	628	643
24	623	613	616	612	463	515	551	479	511	662	632	645
25	627	612	621	513	464	484	593	551	574	669	635	647
26	765	483	569	551	513	535	604	593	599	669	641	653
27	511	495	501	561	272	429	612	603	607	2,550	641	1,090
28	541	511	526	367	270	319	615	606	611	2,550	2,090	2,190
29	574	541	556	474	367	431	621	523	606	2,110	1,510	1,820
30	611	574	591	521	474	499	568	413	457	1,510	1,140	1,280
31	614	606	610	---	---	---	555	502	533	1,150	1,090	1,120
MONTH	765	337	581	651	212	542	1,310	400	625	2,550	157	740

03262001 WOOLPER CREEK AT WOOLPER ROAD NEAR BURLINGTON, KY—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.2	11.5	12.6	16.7	14.5	15.4	5.6	3.9	5.1	4.5	1.8	2.9
2	12.6	10.3	11.4	17.4	14.0	15.6	3.9	2.2	3.1	8.9	4.5	7.0
3	11.7	8.8	10.3	17.3	13.3	15.2	3.5	3.0	3.3	11.9	8.9	10.5
4	13.4	11.1	12.0	16.7	12.6	14.8	4.6	3.2	3.8	11.2	7.1	8.1
5	14.9	10.7	12.5	17.1	14.8	15.8	5.5	4.6	5.1	7.5	5.0	6.4
6	15.7	11.6	13.4	14.8	11.7	13.3	5.5	4.7	5.1	5.0	-0.1	2.2
7	15.9	11.1	13.3	11.7	8.5	10.2	5.0	3.6	4.5	0.4	-0.1	0.0
8	16.6	11.9	14.0	8.7	6.3	7.5	4.6	2.5	3.5	0.6	-0.1	0.3
9	17.3	12.4	14.7	8.0	4.6	6.0	6.8	4.6	5.7	1.3	0.4	0.8
10	18.8	15.1	16.6	8.6	4.5	6.7	8.1	6.7	7.4	0.4	-0.2	0.1
11	19.8	15.1	16.9	11.0	8.5	9.7	7.3	3.9	5.5	0.9	-0.1	0.3
12	18.6	14.8	16.8	14.4	10.8	13.1	3.9	1.3	2.6	1.4	0.1	0.7
13	17.9	12.0	14.7	12.3	6.3	8.9	1.3	0.6	0.9	1.3	0.2	0.9
14	15.1	13.5	14.2	6.4	4.5	5.7	1.4	0.4	0.9	1.7	-0.1	0.7
15	13.9	11.8	13.0	7.0	6.0	6.5	2.2	1.3	1.6	1.6	0.3	0.9
16	13.8	10.8	12.5	8.8	7.0	8.0	4.9	1.2	2.8	1.4	-0.1	0.6
17	13.6	11.8	13.0	9.2	7.0	8.2	4.5	1.7	3.1	1.6	0.2	0.8
18	13.4	10.3	11.8	12.8	9.2	10.6	2.1	1.2	1.6	2.8	1.4	2.0
19	14.3	10.2	12.1	12.8	10.5	12.3	1.8	1.1	1.5	1.4	-0.2	0.4
20	15.3	10.7	13.0	10.5	8.2	9.4	1.1	-0.2	0.4	0.1	-0.1	0.0
21	16.0	13.1	14.3	10.3	7.6	9.0	0.7	-0.1	0.2	0.7	-0.1	0.1
22	14.1	11.0	12.5	11.0	8.1	9.6	3.5	0.5	1.6	0.7	-0.2	0.1
23	13.8	10.1	11.5	12.9	10.6	11.8	5.8	3.5	4.9	-0.1	-0.2	-0.2
24	13.0	8.1	10.3	12.7	5.8	9.3	5.2	3.1	4.1	0.4	-0.2	-0.1
25	14.2	9.4	11.5	5.8	4.1	4.9	3.1	1.3	2.3	-0.1	-0.2	-0.2
26	13.0	11.4	12.1	6.6	4.4	5.4	1.7	0.0	0.9	-0.2	-0.2	-0.2
27	11.4	9.3	10.3	9.3	6.6	7.9	1.8	-0.1	0.8	-0.2	-0.3	-0.2
28	9.5	8.6	9.1	9.3	5.9	7.9	3.3	0.3	1.7	-0.2	-0.3	-0.3
29	10.8	8.9	9.9	5.9	4.4	5.1	6.1	2.8	4.1	0.2	-0.3	-0.2
30	12.7	8.8	10.8	6.3	3.8	5.0	6.1	3.5	4.7	-0.2	-0.3	-0.3
31	15.0	11.3	13.1	---	---	---	4.1	1.9	3.0	-0.2	-0.2	-0.2
MONTH	19.8	8.1	12.7	17.4	3.8	9.6	8.1	-0.2	3.1	11.9	-0.3	1.4
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	-0.1	-0.2	-0.2	8.7	6.2	7.2	9.1	7.4	8.3	17.6	14.6	15.9
2	-0.1	-0.2	-0.2	11.2	7.5	9.2	9.2	7.1	8.3	15.5	11.3	12.9
3	-0.1	-0.3	-0.2	9.4	6.7	7.5	12.8	7.0	9.8	13.4	9.0	11.2
4	0.9	-0.2	0.1	9.2	7.3	8.2	10.6	7.2	8.8	13.6	8.7	11.2
5	0.6	0.0	0.2	13.9	9.1	11.4	11.2	5.2	8.0	18.6	11.4	14.5
6	2.7	0.5	2.0	12.2	8.6	10.6	12.5	5.8	9.1	20.7	13.4	16.8
7	2.0	1.0	1.5	8.7	6.2	7.4	15.0	9.9	12.3	20.6	15.9	18.2
8	1.8	-0.1	0.8	6.7	5.2	6.0	17.4	12.6	14.7	21.7	15.7	18.7
9	2.7	-0.1	1.3	6.7	4.8	5.6	15.1	11.1	13.3	22.9	16.9	19.8
10	4.0	1.3	2.6	7.4	2.7	5.0	15.8	11.1	13.4	22.1	18.3	20.4
11	2.8	-0.1	1.6	7.1	3.9	5.3	14.7	12.2	13.5	23.2	18.4	20.7
12	3.8	2.0	2.7	5.8	2.6	4.4	12.8	8.6	10.4	23.6	18.9	21.3
13	2.2	0.2	1.2	6.0	1.6	4.0	8.6	6.0	7.2	22.5	19.9	21.2
14	2.1	-0.3	0.7	6.5	4.4	5.4	13.0	6.0	8.9	21.2	19.9	20.5
15	2.4	0.1	1.1	8.1	3.3	5.9	14.8	7.3	10.9	20.2	16.2	18.0
16	1.2	-0.2	0.4	7.5	3.8	5.0	17.3	10.0	13.5	18.6	15.6	16.8
17	1.7	-0.3	0.6	4.5	3.1	3.9	19.7	12.3	15.8	21.5	15.9	18.6
18	2.3	-0.2	0.9	6.6	3.4	4.9	21.3	15.1	18.0	23.1	18.6	20.7
19	4.1	0.1	2.0	8.0	4.2	6.0	19.3	16.5	17.3	22.0	18.6	20.1
20	5.3	3.0	4.0	10.0	5.1	7.5	17.0	15.1	16.1	21.8	18.5	20.0
21	4.9	3.3	4.0	8.9	4.2	6.4	16.2	15.0	15.6	23.6	19.9	21.6
22	5.8	2.7	4.1	6.6	2.0	4.2	15.6	13.9	14.9	25.1	20.8	22.9
23	5.4	2.3	4.0	7.2	1.7	4.5	14.0	12.6	13.3	25.2	21.4	23.3
24	5.6	4.3	4.9	10.2	5.9	7.9	16.4	11.2	13.7	25.8	22.3	23.9
25	5.4	2.4	4.0	13.0	9.3	11.1	17.0	13.3	15.1	25.5	21.5	23.3
26	5.5	2.4	4.0	13.9	11.6	12.8	16.4	12.7	14.6	22.9	18.9	20.3
27	6.0	2.3	4.2	16.0	12.8	14.3	14.6	10.7	12.6	20.5	17.6	18.8
28	6.1	1.9	4.2	18.1	13.0	15.4	16.3	8.8	12.3	20.8	17.8	18.9
29	7.0	3.0	5.1	16.3	11.8	13.9	18.2	12.0	15.0	20.8	16.5	18.5
30	---	---	---	12.5	9.9	11.3	16.8	14.4	15.6	19.1	17.4	18.0
31	---	---	---	9.9	8.4	9.0	---	---	---	20.5	17.7	18.9
MONTH	7.0	-0.3	2.1	18.1	1.6	7.8	21.3	5.2	12.7	25.8	8.7	18.9

03262001 WOOLPER CREEK AT WOOLPER ROAD NEAR BURLINGTON, KY—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	10.4	8.2	9.2	10.9	7.7	8.9	13.2	11.2	12.0	14.7	11.7	13.0
2	10.7	8.5	9.6	10.6	7.7	8.8	---	---	---	11.8	10.3	11.1
3	12.6	9.0	10.4	10.4	7.9	8.8	---	---	---	10.6	9.5	10.1
4	12.2	8.6	10.2	10.3	7.9	8.7	---	---	---	12.1	9.6	11.4
5	11.8	8.4	10.1	10.1	7.7	8.5	---	---	---	12.0	11.6	11.7
6	11.3	8.4	9.7	9.4	8.0	8.7	---	---	---	13.6	11.8	12.8
7	11.2	7.4	9.6	11.2	8.8	9.9	---	---	---	13.7	13.3	13.5
8	11.0	7.7	9.3	11.7	9.7	10.8	---	---	---	13.7	12.8	13.3
9	11.5	6.5	9.3	12.2	10.7	11.3	---	---	---	13.3	12.6	13.0
10	10.4	6.4	8.4	12.3	10.3	11.3	---	---	---	13.4	12.3	13.0
11	9.7	6.3	7.9	10.5	9.5	10.0	---	---	---	13.4	12.6	12.9
12	9.3	6.0	7.6	9.7	8.7	9.2	---	---	---	13.2	12.3	12.9
13	9.4	6.4	8.0	10.9	9.0	10.2	---	---	---	13.4	12.6	12.9
14	8.8	6.3	7.8	11.9	10.7	11.3	---	---	---	13.5	12.0	12.7
15	9.0	8.0	8.6	11.4	10.5	10.9	---	---	---	13.2	12.1	12.7
16	9.8	8.0	8.8	11.2	10.1	10.6	---	---	---	13.5	12.5	13.0
17	9.8	8.0	8.6	11.9	9.9	10.8	---	---	---	13.3	12.3	12.8
18	10.5	8.2	9.2	11.0	9.3	9.9	---	---	---	12.9	12.1	12.5
19	10.4	8.2	9.1	9.7	9.1	9.3	14.7	12.9	13.6	13.5	12.4	13.0
20	10.4	7.7	9.0	11.0	9.5	10.1	15.8	12.9	14.0	14.2	12.2	13.1
21	10.4	7.3	8.6	11.6	9.4	10.3	15.5	13.3	14.0	13.4	12.5	13.0
22	10.3	7.6	9.0	11.6	9.1	10.2	14.1	12.1	13.2	13.5	12.4	12.9
23	10.5	8.5	9.2	12.2	8.7	10	12.2	11.6	11.9	13.4	12.5	12.9
24	10.7	9.0	9.7	10.7	8.6	9.8	12.6	11.8	12.2	13.3	12.4	12.8
25	10.6	8.2	9.4	13.1	10.7	11.7	14.4	12.3	13.2	13.3	12.6	12.9
26	9.7	8.0	9.0	13.5	10.6	11.7	15.1	12.9	13.8	13.4	12.5	12.9
27	10.7	9.1	9.9	11.0	10.3	10.6	15.2	13.0	13.8	13.6	12.7	13.0
28	11.2	9.5	10.3	11.4	10.3	11.0	15.0	12.2	13.5	14.0	12.8	13.3
29	11.5	9.2	10.4	12.5	11.3	11.8	14.0	11.4	12.4	14.1	12.9	13.3
30	11.6	9.0	10.2	12.9	11.1	11.9	12.9	11.6	12.1	14.0	12.9	13.4
31	11.1	8.2	9.5	---	---	---	14.3	12.0	12.9	14.3	12.9	13.5
MONTH	12.6	6.0	9.2	13.5	7.7	10.2	15.8	11.2	13.0	14.7	9.5	12.8
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	14.4	13.0	13.5	---	---	---	---	---	---	9.7	6.6	7.9
2	14.2	12.8	13.4	---	---	---	---	---	---	10.6	9.6	10.2
3	13.7	13.2	13.6	---	---	---	---	---	---	12.1	9.6	10.8
4	14.0	13.4	13.6	---	---	---	---	---	---	13.8	9.1	11.0
5	13.8	13.1	13.5	---	---	---	---	---	---	13.1	7.8	10.4
6	13.4	12.6	12.9	---	---	---	---	---	---	12.7	7.1	9.7
7	13.3	12.7	12.9	---	---	---	16.0	9.1	12.5	11.8	7.1	9.0
8	14.3	13.0	13.5	---	---	---	14.0	8.4	10.6	11.0	6.7	8.6
9	14.1	12.5	13.4	---	---	---	13.7	8.4	10.7	10.6	6.3	8.1
10	13.8	12.2	12.9	---	---	---	13.6	8.6	10.6	10.2	6.3	7.7
11	14.4	12.5	13.3	---	---	---	12.6	8.5	9.9	10.0	6.4	7.9
12	14.0	12.5	13.0	---	---	---	11.2	8.8	10.1	10.0	6.2	7.7
13	14.7	12.7	13.6	---	---	---	12.3	10.3	11.1	9.4	6.1	7.4
14	15.1	13.0	13.9	---	---	---	11.7	6.9	9.8	8.8	6.2	7.2
15	15.2	13.1	13.9	---	---	---	10.2	6.8	8.7	9.4	6.6	7.9
16	15.9	13.5	14.4	---	---	---	11.6	7.0	9.1	10.4	7.8	8.9
17	16.0	13.6	14.6	---	---	---	12.0	6.5	9.0	10.8	7.0	8.7
18	16.1	13.3	14.5	---	---	---	11.7	6.0	8.6	10.3	6.7	8.1
19	16.0	12.5	14.2	---	---	---	10.2	5.4	7.7	9.1	6.7	8.2
20	14.7	12.0	12.9	---	---	---	10.2	6.9	8.2	8.5	7.1	8.0
21	14.8	12.1	13.1	---	---	---	9.8	7.3	8.3	8.9	6.6	7.5
22	16.5	12.5	14.0	---	---	---	10.3	7.5	8.4	8.6	6.5	7.4
23	16.7	12.3	14.2	---	---	---	8.6	6.6	7.7	9.2	6.5	7.6
24	16.1	12.2	13.6	---	---	---	9.3	5.0	7.0	9.9	6.5	7.7
25	16.7	12.5	14.3	---	---	---	9.9	4.2	6.9	10.2	6.5	7.9
26	17.3	12.6	14.5	---	---	---	8.6	6.2	7.2	9.6	6.9	8.3
27	16.9	12.7	14.4	---	---	---	10.6	7.0	8.6	10.1	9.1	9.6
28	17.3	12.6	14.6	---	---	---	12.7	7.3	9.5	9.9	9.0	9.6
29	---	---	---	---	---	---	11.3	5.1	8.5	10.5	8.9	9.7
30	---	---	---	---	---	---	8.8	6.0	7.5	9.9	8.8	9.5
31	---	---	---	---	---	---	---	---	---	10.0	8.5	9.1
MONTH	17.3	12.0	13.7	---	---	---	16.0	4.2	9.0	13.8	6.1	8.6

03262001 WOOLPER CREEK AT WOOLPER ROAD NEAR BURLINGTON, KY—Continued

TURBIDITY, WATER, UNFILTERED, NEPHELOMETRIC TURBIDITY UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	76	67	71	27	16	19
2	---	---	---	---	---	---	73	65	69	>1,000	27	340
3	---	---	---	---	---	---	71	65	69	88	45	61
4	---	---	---	5.0	1.0	2.2	72	66	69	>1,000	55	690
5	---	---	---	5.0	1.0	2.0	110	68	80	570	65	160
6	---	---	---	4.0	1.0	2.2	120	95	110	65	31	47
7	---	---	---	5.0	2.0	2.9	99	86	93	35	22	27
8	---	---	---	2.0	0.0	1.3	93	85	90	22	16	19
9	---	---	---	2.0	0.0	0.8	110	88	96	---	---	---
10	---	---	---	5.0	0.0	0.7	270	97	160	---	---	---
11	---	---	---	3.0	0.0	0.9	180	140	160	---	---	---
12	---	---	---	>1,000	2.0	380	150	130	140	---	---	---
13	---	---	---	120	36	63	140	120	130	---	---	---
14	>1,000	6.3	390	36	20	26	140	120	130	---	---	---
15	840	120	290	30	19	22	130	110	120	---	---	---
16	120	71	88	31	21	24	260	120	150	---	---	---
17	71	59	64	22	15	18	170	78	110	---	---	---
18	65	56	61	>1,000	13	110	---	---	---	---	---	---
19	60	30	55	370	100	190	---	---	---	---	---	---
20	57	29	52	100	47	65	43	6.2	7.2	---	---	---
21	63	29	50	47	38	42	6.5	5.4	6.1	---	---	---
22	59	29	53	110	39	61	5.8	3.7	5.1	---	---	---
23	61	55	56	49	42	45	680	5.8	140	11	3.0	3.8
24	60	55	57	470	43	120	270	33	81	4.0	2.0	3.1
25	58	28	53	110	69	85	33	14	22	3.0	2.0	2.4
26	590	56	160	72	60	65	15	9.8	13	3.0	2.0	2.6
27	150	58	80	960	60	220	11	7.9	9.4	12	3.0	6.5
28	58	46	50	520	120	220	9.2	7.2	8.7	12	6.0	9.2
29	49	40	44	120	74	88	450	8.2	38	6.0	3.0	3.7
30	40	30	35	79	66	73	940	44	180	3.0	2.0	2.1
31	---	---	---	---	---	---	45	19	29	3.0	2.0	2.0
MONTH	1,000	6.3	96	1,000	0.0	71	940	3.7	82	1,000	2.0	82
	FEBRUARY			MARCH			APRIL			MAY		
1	2.0	1.0	2.0	14	4.0	8.1	110	43	65	160	120	120
2	210	1.0	8.3	13	8.0	10	---	---	---	130	34	60
3	540	63	200	130	6.0	8.1	---	---	---	49	41	43
4	65	29	41	>1,000	76	340	---	---	---	57	49	52
5	780	21	130	76	31	48	---	---	---	65	56	60
6	490	64	160	43	25	33	---	---	---	69	64	67
7	64	23	37	26	18	22	---	---	---	70	45	62
8	23	12	16	21	15	17	7.0	4.0	5.7	55	52	53
9	46	10	14	16	13	14	9.0	7.0	7.9	57	46	53
10	160	20	48	19	12	14	11	8.0	9.5	55	46	52
11	84	17	42	15	12	13	12	10	11	58	49	54
12	26	12	16	19	12	14	230	12	42	62	48	52
13	18	10	13	15	13	14	990	38	280	66	44	51
14	10	7.0	8.1	14	13	14	220	190	200	53	40	46
15	7.0	4.0	5.1	16	13	14	200	180	190	45	41	43
16	6.0	5.0	5.2	19	14	16	180	170	180	47	43	45
17	5.0	3.0	4.1	20	15	17	180	160	170	52	43	46
18	4.0	3.0	3.8	17	15	16	170	160	170	55	43	47
19	5.0	3.0	3.7	20	15	16	170	170	170	63	44	49
20	26	5.0	10	28	16	18	180	170	170	53	44	46
21	25	14	18	22	18	20	180	170	170	45	39	43
22	14	7.0	9.4	19	17	18	190	170	180	49	40	42
23	8.0	5.0	6.1	19	17	18	180	160	160	52	39	44
24	12	5.0	6.8	23	17	19	160	150	160	42	36	39
25	8.0	4.0	5.0	24	17	20	160	130	140	41	36	39
26	6.0	3.0	4.3	18	16	17	140	130	130	720	39	140
27	5.0	3.0	3.9	20	16	17	140	130	130	170	46	99
28	5.0	3.0	3.6	21	15	17	140	120	130	200	88	98
29	5.0	3.0	3.7	40	16	19	130	120	120	95	85	90
30	---	---	---	>1,000	39	250	120	120	120	110	84	90
31	---	---	---	380	110	170	---	---	---	110	39	48
MONTH	780	1.0	29	1,000	4.0	40	990	4.0	130	720	34	60

WOOLPER CREEK BASIN

03262001 WOOLPER CREEK AT WOOLPER ROAD NEAR BURLINGTON, KY—Continued

TURBIDITY, WATER, UNFILTERED, NEPHELOMETRIC TURBIDITY UNITS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	44	40	41	13	1.2	3.8	190	63	110	100	51	73
2	45	37	41	17	4.9	10	100	41	63	74	36	47
3	40	5.0	29	32	12	22	66	29	42	2,500	35	820
4	32	2.0	13	21	7.5	13	2,300	29	600	420	140	260
5	67	3.0	16	28	7.6	18	300	74	140	150	65	110
6	31	5.0	15	35	17	21	94	37	62	89	44	67
7	21	3.0	9.4	33	15	21	68	31	44	86	32	42
8	8.0	0.0	3.3	38	20	25	59	23	33	59	32	40
9	690	0.4	130	870	22	130	38	17	24	82	29	40
10	---	---	---	890	600	820	34	16	21	52	22	34
11	---	---	---	---	---	---	27	14	18	44	22	28
12	---	---	---	---	---	---	37	13	18	37	16	20
13	---	---	---	---	---	---	30	13	16	25	13	18
14	---	---	---	420	160	250	67	12	16	26	14	18
15	180	12	72	200	140	160	67	12	15	24	14	19
16	120	45	74	380	59	85	24	11	14	26	14	18
17	78	13	31	83	41	55	27	11	15	35	15	20
18	36	9.0	17	130	39	54	47	9.9	14	27	13	18
19	80	5.0	14	59	37	47	47	12	19	46	18	22
20	21	1.0	9.6	120	28	38	470	13	58	40	16	21
21	15	0.0	5.4	64	24	37	750	87	320	27	13	18
22	---	---	---	2,400	34	580	100	42	73	40	13	18
23	---	---	---	380	130	220	56	28	38	50	13	19
24	---	---	---	210	64	110	69	24	35	51	12	17
25	---	---	---	110	39	69	46	20	26	25	11	16
26	---	---	---	190	39	73	51	19	22	37	12	17
27	---	---	---	96	54	69	40	18	23	43	10	15
28	---	---	---	83	39	58	2,400	18	510	34	11	14
29	---	---	---	63	31	42	2,200	170	470	20	10	14
30	---	---	---	250	23	51	250	110	160	20	10	14
31	---	---	---	2,500	110	800	140	72	100	---	---	---
MONTH	690	0.0	33	2,500	1.2	140	2,400	9.9	100	2,500	10	63
YEAR	2,500	0.0	77									

> Actual value is known to be greater than the value shown

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03277075 GUNPOWDER CREEK AT CAMP ERNST ROAD NEAR UNION, KY

LOCATION.--Lat 38°59'39", long 84°42'58", Boone County, Hydrologic Unit 05090203, on upstream right wing wall of bridge on Camp Ernst Road, 0.65 mi below South Fork Gunpowder Creek, 3.8 mi northwest of Union, and 14.2 mi above the mouth.

DRAINAGE AREA.--36.6 mi².

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder with telemetry. Datum of gage is 683.066 ft above NGVD of 1929.

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

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	2.7	24	28	22	47	79	64	e60	0.00	42	1.2
2	5.4	2.2	17	513	95	24	97	480	21	29	14	0.36
3	2.9	2.0	14	133	492	24	47	83	19	13	8.3	381
4	2.7	2.1	13	2,140	92	524	27	36	14	1.4	381	18
5	1.7	1.6	66	573	272	122	23	25	11	0.62	54	7.8
6	0.83	8.6	29	103	689	103	17	19	8.8	0.14	14	4.0
7	0.95	6.6	17	43	133	44	17	15	7.1	0.17	8.0	2.5
8	0.53	2.0	14	31	57	28	16	11	6.0	0.59	5.0	25
9	0.32	1.0	13	27	48	24	13	10	62	0.08	3.4	8.0
10	0.33	0.80	199	21	75	19	9.9	10	30	100	3.1	3.4
11	0.42	7.3	72	16	56	19	8.7	e2.3	10	111	2.3	2.0
12	0.16	747	27	17	45	14	121	e4.3	61	e88	1.6	2.2
13	0.10	95	19	16	33	13	594	e4.3	22	50	0.90	0.78
14	165	24	23	12	24	13	376	e6.3	9.0	7.2	0.77	0.47
15	20	54	22	15	21	13	83	e30	9.6	2.8	0.44	0.33
16	6.0	22	143	9.7	16	67	45	e16	13	1.3	0.36	0.23
17	3.6	15	73	27	16	28	33	10	6.3	12	0.34	65
18	3.6	126	36	164	13	35	25	27	29	3.1	0.21	8.5
19	1.6	142	30	34	16	32	21	284	9.7	1.4	16	2.3
20	1.5	34	20	20	33	26	21	28	3.8	0.70	62	0.80
21	0.59	19	18	17	34	24	44	14	1.9	0.30	15	0.45
22	1.0	14	25	14	17	17	100	10	7.0	212	2.9	0.24
23	0.53	11	190	15	16	13	99	6.3	2.3	13	1.4	0.13
24	0.41	109	138	11	15	15	34	4.5	0.65	4.5	3.4	0.09
25	0.59	23	42	8.1	12	11	346	6.2	0.39	2.3	4.5	0.07
26	124	15	25	21	13	14	73	e51	0.26	7.2	3.7	0.05
27	15	332	20	146	12	14	38	335	0.17	7.4	4.6	0.03
28	7.7	561	17	83	9.1	10	23	205	0.12	3.0	15	0.00
29	16	102	95	44	8.8	52	15	38	0.19	2.3	21	0.04
30	5.5	40	220	76	---	239	116	179	0.05	39	30	0.03
31	3.5	---	43	19	---	189	---	515	---	912	3.8	---
TOTAL	418.46	2,521.90	1,704	4,396.8	2,384.9	1,817	2,561.6	2,529.2	425.33	1,625.50	723.02	535.00
MEAN	13.5	84.1	55.0	142	82.2	58.6	85.4	81.6	14.2	52.4	23.3	17.8
MAX	165	747	220	2,140	689	524	594	515	62	912	381	381
MIN	0.10	0.80	13	8.1	8.8	10	8.7	2.3	0.05	0.00	0.21	0.00

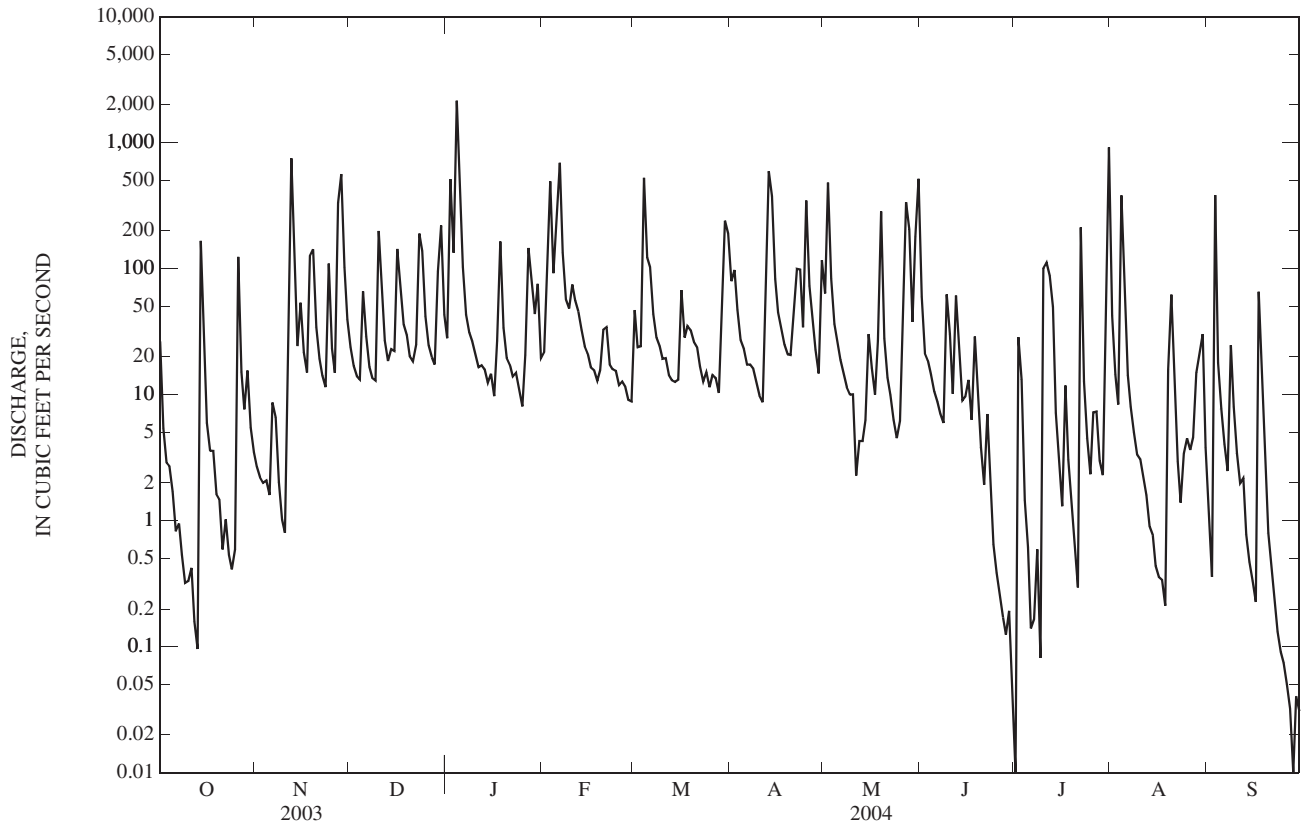
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	35.1	37.6	70.9	68.8	90.1	63.0	58.4	69.9	32.0	33.3	26.6	29.1
MAX	99.1	84.1	107	142	151	102	118	149	55.0	76.6	71.1	63.9
(WY)	(2002)	(2004)	(2003)	(2004)	(2000)	(2002)	(2002)	(2002)	(2000)	(2001)	(2003)	(2003)
MIN	7.91	5.68	31.8	21.9	44.8	22.5	10.9	9.25	9.79	4.00	2.89	1.01
(WY)	(2001)	(2000)	(2000)	(2001)	(2001)	(2001)	(2001)	(1999)	(1999)	(2002)	(2002)	(1999)

03277075 GUNPOWDER CREEK AT CAMP ERNST ROAD NEAR UNION, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	22,455.85		21,642.71		54.1	
ANNUAL MEAN	61.5		59.1		32.8	
HIGHEST ANNUAL MEAN					67.6	2002
LOWEST ANNUAL MEAN					32.8	2001
HIGHEST DAILY MEAN	1,230	Feb 22	2,140	Jan 4	2,140	Jan 4, 2004
LOWEST DAILY MEAN	0.10	Oct 13	0.00	Jul 1	0.00	Sep 10, 1999
ANNUAL SEVEN-DAY MINIMUM	0.40	Oct 7	0.04	Sep 24	0.00	Sep 10, 1999
MAXIMUM PEAK FLOW			3,870	Jan 4	6,590	May 8, 2002
MAXIMUM PEAK STAGE			6.94	Jan 4	8.22	May 8, 2002
INSTANTANEOUS LOW FLOW					0.03	Sep 21, 2003
10 PERCENT EXCEEDS	142		128		113	
50 PERCENT EXCEEDS	20		16		14	
90 PERCENT EXCEEDS	1.1		0.53		0.95	

e Estimated



03277075 GUNPOWDER CREEK AT CAMP ERNST ROAD NEAR UNION, KY

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 2002 to September 2004.

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 2000 to current water year.

pH: November 2000 to current water year.

WATER TEMPERATURES: November 2000 to current water year.

DISSOLVED OXYGEN: November 2000 to current water year.

TURBIDITY: November 2000 to current water year.

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

REMARKS.--

SPECIFIC CONDUCTANCE: Records rated good except for the following periods: Nov. 12-23 rated good; Nov. 27-Dec. 18 rated poor.

pH: Records rated good except for the following period: Dec. 3-19 rated fair..

WATER TEMPERATURES: Records rated excellent except for the following periods: Oct. 1-3, Feb. 2-13, Jul. 8-Aug. 1.

DISSOLVED OXYGEN: Records rated poor.

TURBIDITY: Records rated fair except for the following period: Nov. 4-11 and Feb. 26-Mar. 3 rated poor.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 6310 microsiemens, Jan. 29, 2003; minimum recorded, 118 microsiemens, July 18, 2001.

pH: Maximum recorded, 10.4 units, Aug. 12, 2001; minimum recorded, 6.5 units, Aug. 23, 2003.

WATER TEMPERATURES: Maximum recorded, 31.8°C, Jun. 28, 2001; minimum recorded, -0.3°C, Jan. 29, 30, and Feb. 11-14, 2003.

DISSOLVED OXYGEN: Maximum recorded, 19.6 mg/L, Jun. 28, 2004; minimum recorded, 0.7 mg/L, Aug. 14, 2003.

TURBIDITY: Maximum recorded, 2500 NTU, Jul. 22, 31, Aug. 4, 20, 28 and Sept. 3, 2004; minimum recorded, 0.0 NTU, several days in Nov. and Dec. 2002, Feb., July, Aug., Sept. 2003, and Nov. 4-11, 2003.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 4500 microsiemens, Jan. 27, 2004; minimum recorded, 148 microsiemens, Jul. 31, 2004.

pH: Maximum recorded, 9.1 units, Aug. 28, 2004; minimum recorded, 7.2 units, Jun. 28, 2004.

WATER TEMPERATURES: Maximum recorded, 29.8°C, Jul. 6, 2004; minimum recorded, -0.2°C, Jan. 7, 10, 27, 28, 2004.

DISSOLVED OXYGEN: Maximum recorded, 19.6 mg/L, Jun. 28, 2004; minimum recorded, 4.8 mg/L, Jul. 4, 5, 7, 2004.

TURBIDITY: Maximum recorded, 2500 NTU, Jul. 22, 31, Aug. 4, 20, 28, and Sept. 3, 2004; minimum recorded, 0.0 NTU, Nov. 4-11, 2003.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	610	496	547	647	631	639	633	610	622	732	665	679
2	541	496	519	668	644	655	665	627	648	709	362	503
3	592	541	567	678	663	670	692	665	671	649	478	594
4	626	592	609	700	677	685	705	683	694	478	206	291
5	649	626	640	725	700	708	729	556	664	445	217	354
6	656	641	648	763	704	729	621	562	593	522	445	491
7	643	633	638	767	673	729	673	621	650	571	514	551
8	654	632	640	673	631	644	695	673	684	678	564	598
9	653	613	635	652	636	640	729	666	700	1,410	678	986
10	666	634	644	670	652	663	726	469	589	1,760	1,410	1,540
11	711	664	681	716	662	690	625	509	578	1,770	1,100	1,410
12	723	697	712	780	229	368	656	625	641	1,100	876	967
13	712	696	703	544	348	466	702	647	675	893	860	874
14	706	277	529	593	542	566	1,640	692	874	865	802	832
15	473	358	419	629	531	576	2,840	1,640	2,470	890	799	852
16	550	473	510	608	536	566	2,760	885	1,910	883	819	853
17	602	550	571	668	603	636	885	816	845	1,160	826	875
18	652	587	621	737	390	655	1,870	846	1,030	1,810	722	1,070
19	676	652	660	544	392	490	2,910	1,870	2,550	823	687	707
20	683	673	678	604	542	576	3,500	2,530	2,960	797	695	722
21	677	648	665	651	597	622	3,160	2,410	2,780	801	733	763
22	684	672	678	667	637	655	2,410	1,430	1,760	775	721	744
23	696	679	686	681	626	660	1,850	887	1,320	804	766	781
24	702	691	697	668	432	534	933	732	789	800	757	784
25	702	670	688	608	523	566	881	751	785	787	739	771
26	757	326	496	664	607	639	868	735	764	916	721	772
27	521	412	470	675	329	518	852	748	765	4,500	916	3,060
28	588	521	553	487	350	416	842	758	775	3,960	2,900	3,620
29	656	588	629	577	487	537	923	752	795	3,510	2,580	2,900
30	618	595	604	620	566	595	761	597	624	2,820	2,300	2,530
31	637	618	627	---	---	---	714	622	664	3,240	2,570	2,890
MONTH	757	277	612	780	229	603	3,500	469	1,060	4,500	206	1,140

03277075 GUNPOWDER CREEK AT CAMP ERNST ROAD NEAR UNION, KY—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.3	11.9	13.2	17.3	15.2	16.1	6.1	4.3	5.4	5.1	2.2	3.4
2	12.9	10.1	11.6	17.6	14.4	16.1	4.3	2.5	3.5	8.5	5.1	7.2
3	11.7	8.5	10.4	17.2	13.7	15.5	3.7	3.2	3.4	11.9	8.5	10.3
4	13.4	11.4	12.3	16.6	12.9	15.0	4.6	3.1	3.7	11.5	7.2	8.3
5	14.7	11.0	12.8	17.8	15.0	16.3	5.9	4.6	5.4	7.8	5.3	6.7
6	15.4	12.4	14.0	15.0	11.3	13.1	5.6	4.6	5.1	5.3	0.4	2.7
7	15.5	11.9	13.9	11.3	8.3	9.7	4.9	3.6	4.4	0.5	-0.2	0.2
8	16.6	12.9	14.8	8.3	5.8	6.9	4.9	2.7	3.8	0.9	-0.1	0.5
9	17.8	13.6	15.6	6.4	3.9	5.3	6.9	4.9	6.0	1.4	0.4	0.9
10	19.2	16.2	17.5	8.7	4.2	6.4	8.3	6.9	7.6	0.5	-0.2	0.0
11	19.5	16.3	17.9	11.2	8.3	9.7	7.2	3.8	5.4	0.5	-0.1	0.2
12	18.2	16.1	17.6	15.3	11.2	13.8	3.8	1.8	2.7	1.5	0.1	0.8
13	16.4	13.0	15.0	13.0	6.7	9.1	1.8	1.0	1.2	1.8	0.5	1.2
14	16.3	14.4	15.0	7.2	5.0	6.3	1.8	0.4	1.1	2.1	0.1	0.9
15	14.5	12.2	13.6	7.8	6.4	7.1	2.5	1.5	1.9	2.1	0.3	1.0
16	14.4	10.7	12.9	9.6	7.8	8.7	5.3	1.7	3.3	1.6	0.2	0.7
17	14.0	11.9	13.2	9.8	7.3	8.7	4.6	1.6	3.0	1.7	0.5	1.0
18	13.0	9.8	11.5	13.4	9.5	11.3	2.0	1.3	1.6	3.4	1.6	2.7
19	14.0	10.1	12.1	13.3	10.7	12.5	2.0	1.2	1.6	1.6	0.0	0.6
20	15.4	11.0	13.2	10.7	8.3	9.7	1.2	0.0	0.5	0.2	0.0	0.1
21	16.6	13.7	14.9	10.9	8.3	9.6	0.8	0.0	0.5	0.5	0.0	0.2
22	15.0	11.6	13.0	11.8	8.5	10.2	4.2	0.6	2.3	0.5	0.0	0.2
23	12.7	10.0	11.3	13.3	10.9	12.1	6.1	4.2	5.2	0.1	0.0	0.0
24	11.5	7.9	10	12.6	5.7	9.4	4.9	2.9	3.8	0.2	0.0	0.1
25	14.9	9.7	11.9	5.9	4.1	5.1	2.9	1.6	2.2	0.0	0.0	0.0
26	13.9	11.6	12.8	7.0	4.7	5.9	2.1	0.0	1.2	0.1	0.0	0.0
27	11.6	9.4	10.5	9.3	6.9	8.0	2.4	0.2	1.3	0.0	-0.2	-0.1
28	9.8	8.5	9.2	9.3	5.8	7.7	4.0	1.1	2.5	-0.1	-0.2	-0.1
29	11.2	8.9	10.1	5.8	4.8	5.3	6.7	3.4	4.8	-0.1	-0.1	-0.1
30	13.0	8.8	11.1	6.5	4.2	5.3	6.5	3.7	4.9	-0.1	-0.1	-0.1
31	15.8	11.9	13.8	---	---	---	4.3	2.4	3.4	0.0	-0.1	-0.1
MONTH	19.5	7.9	13.1	17.8	3.9	9.9	8.3	0.0	3.3	11.9	-0.2	1.6
	FEBRUARY			MARCH			APRIL			MAY		
1	-0.1	-0.1	-0.1	9.3	7.3	8.1	9.9	7.8	8.9	---	---	---
2	0.0	-0.1	-0.1	12.4	8.2	10.1	9.4	7.5	8.5	---	---	---
3	0.7	0.0	0.4	10.4	7.4	8.2	13.8	7.2	10.3	---	---	---
4	2.5	0.2	1.2	10.0	8.2	8.9	11.0	7.4	9.1	---	---	---
5	1.8	0.7	1.4	14.2	9.7	11.7	11.8	5.5	8.7	---	---	---
6	2.9	1.3	2.3	12.4	9.0	10.6	13.9	6.5	10.2	---	---	---
7	2.3	1.5	1.9	9.3	6.7	8.0	16.2	10.9	13.5	---	---	---
8	2.3	0.6	1.4	7.3	5.5	6.3	18.3	13.5	15.6	---	---	---
9	3.0	0.7	1.8	7.6	5.3	6.3	16.3	11.4	14.2	---	---	---
10	4.5	1.6	2.9	8.2	3.5	6.0	17.1	11.5	14.3	---	---	---
11	3.4	0.4	2.1	7.8	4.8	6.1	16.4	12.8	14.6	---	---	---
12	4.5	2.6	3.4	6.5	2.8	4.9	13.8	8.9	10.6	---	---	---
13	2.9	0.8	1.8	7.2	2.2	4.8	8.9	6.1	7.2	---	---	---
14	3.1	-0.1	1.3	7.6	5.3	6.3	13.0	5.8	8.7	---	---	---
15	2.6	0.9	1.7	9.8	3.8	6.8	15.3	7.6	11.4	---	---	---
16	2.0	-0.1	0.8	8.5	3.8	5.2	18.4	10.7	14.4	---	---	---
17	3.1	0.1	1.3	5.2	3.2	4.2	20.4	13.0	16.7	---	---	---
18	3.5	0.0	1.7	7.6	4.2	5.7	22.0	15.7	18.8	---	---	---
19	5.6	1.0	3.2	9.2	5.1	6.9	20.0	16.9	18.1	---	---	---
20	6.5	4.0	5.1	11.8	6.2	8.7	17.9	15.8	17.0	---	---	---
21	5.8	3.7	4.5	10.1	4.5	7.0	17.0	15.7	16.3	---	---	---
22	6.4	3.0	4.5	7.2	1.8	4.6	15.8	14.9	15.3	---	---	---
23	6.3	2.7	4.6	8.4	2.1	5.3	15.0	13.4	14.2	---	---	---
24	6.2	4.6	5.6	11.4	7.0	8.9	17.5	11.7	14.7	---	---	---
25	5.6	2.3	4.2	14.3	9.9	12.0	16.4	14.1	14.3	---	---	---
26	5.8	2.4	4.2	14.5	12.0	13.3	17.4	13.4	15.4	---	---	---
27	7.2	2.7	4.9	17.5	13.6	15.3	15.3	11.7	13.7	---	---	---
28	7.1	2.1	4.9	19.0	13.6	16.4	16.8	9.6	13.3	---	---	---
29	8.3	3.6	6.1	17.3	12.0	14.5	18.9	13.0	15.9	---	---	---
30	---	---	---	13.2	10.9	11.9	17.5	15.0	16.0	---	---	---
31	---	---	---	11.5	8.8	9.9	---	---	---	---	---	---
MONTH	8.3	-0.1	2.7	19.0	1.8	8.5	22.0	5.5	13.3	---	---	---

03277075 GUNPOWDER CREEK AT CAMP ERNST ROAD NEAR UNION, KY—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.2	8.8	9.4	11.8	7.6	9.0	---	---	---	9.2	7.5	8.5
2	11.0	8.8	9.8	11.7	7.9	9.2	---	---	---	8.2	6.6	7.7
3	12.3	9.4	10.5	11.7	8.1	9.3	---	---	---	7.4	5.8	6.8
4	12.6	9.1	10.3	11.6	7.9	9.3	---	---	---	9.3	5.1	7.7
5	12.6	8.9	10.4	11.4	7.6	9.0	---	---	---	9.7	8.6	9.1
6	12.3	8.6	9.9	10.0	8.0	9.0	---	---	---	10.7	8.8	10
7	12.1	8.6	9.8	12.9	9.4	10.8	---	---	---	11.5	10.1	10.8
8	11.7	8.2	9.5	13.8	10.1	11.7	---	---	---	11.1	9.4	10.2
9	12.0	7.8	9.4	14.1	11.4	12.5	---	---	---	10.6	9.2	9.8
10	9.9	7.0	8.2	14.5	10.9	12.6	---	---	---	11.4	8.6	10.0
11	9.2	6.7	7.6	11.2	9.6	10.5	---	---	---	10.8	8.8	10.2
12	8.6	6.4	7.2	10.0	9.1	9.7	---	---	---	10.6	7.7	9.0
13	9.2	6.9	7.8	11.7	10.0	11.2	---	---	---	10.2	6.2	8.5
14	8.6	6.9	7.6	12.8	11.7	12.2	---	---	---	9.8	7.0	8.6
15	9.7	8.5	9.0	12.1	11.3	11.7	---	---	---	9.7	8.0	8.7
16	11.1	8.8	9.8	11.7	11.0	11.3	---	---	---	10.1	8.0	9.0
17	11.4	8.8	9.7	12.6	10.8	11.6	---	---	---	10.0	7.9	9.0
18	12.2	9.6	10.5	11.6	10.0	10.7	---	---	---	---	---	---
19	12.4	9.3	10.4	10.5	9.9	10.2	---	---	---	---	---	---
20	12.6	8.8	10.3	11.9	10.4	11.0	14.8	12.0	13.2	---	---	---
21	12.6	8.3	9.8	12.1	10.7	11.2	14.5	12.3	13.2	---	---	---
22	12.1	8.4	10	---	---	---	12.6	10.7	11.8	---	---	---
23	12.3	9.1	10.2	---	---	---	11.2	10.0	10.5	---	---	---
24	12.1	9.3	10.4	---	---	---	12.0	10.8	11.3	---	---	---
25	11.9	8.4	10.0	---	---	---	13.1	10.7	11.5	---	---	---
26	9.1	8.3	8.7	---	---	---	12.1	10.6	11.4	---	---	---
27	10.5	8.8	9.6	---	---	---	11.4	9.9	10.6	---	---	---
28	11.1	9.2	9.9	---	---	---	10.5	8.0	9.5	---	---	---
29	11.2	9.1	10.0	---	---	---	9.1	5.0	7.9	---	---	---
30	11.9	8.6	10.1	---	---	---	9.4	7.3	8.2	---	---	---
31	12.2	8.1	9.6	---	---	---	10.2	7.2	8.4	---	---	---
MONTH	12.6	6.4	9.5	14.5	7.6	10.7	14.8	5.0	10.6	11.5	5.1	9.0
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	15.9	8.5	12.0	---	---	---
7	---	---	---	---	---	---	12.8	6.5	9.5	---	---	---
8	---	---	---	---	---	---	10.6	6.2	8.1	---	---	---
9	---	---	---	---	---	---	10.5	6.7	8.6	---	---	---
10	---	---	---	---	---	---	10.3	6.6	8.3	---	---	---
11	---	---	---	---	---	---	9.7	6.5	7.5	---	---	---
12	---	---	---	---	---	---	9.8	7.1	8.5	---	---	---
13	13.8	12.2	12.6	---	---	---	11.1	9.3	10.2	---	---	---
14	13.2	11.5	12.3	---	---	---	11.3	8.8	10.3	---	---	---
15	12.3	10.7	11.4	---	---	---	10.7	7.9	9.5	---	---	---
16	12.6	11.3	12.0	---	---	---	10.4	7.3	8.9	---	---	---
17	14.6	10.8	12.7	---	---	---	10.5	6.8	8.5	---	---	---
18	12.6	10.5	11.4	---	---	---	9.9	6.6	7.9	---	---	---
19	12.1	9.5	11.2	---	---	---	9.7	6.4	7.8	---	---	---
20	9.9	7.2	9.1	---	---	---	9.8	6.5	7.9	---	---	---
21	---	---	---	---	---	---	9.2	6.1	7.5	---	---	---
22	---	---	---	---	---	---	8.9	6.2	7.4	---	---	---
23	---	---	---	---	---	---	8.4	6.6	7.5	---	---	---
24	---	---	---	---	---	---	9.3	6.3	8.0	---	---	---
25	---	---	---	---	---	---	7.9	5.9	7.0	---	---	---
26	---	---	---	---	---	---	8.7	5.8	7.5	---	---	---
27	---	---	---	---	---	---	9.8	7.1	8.5	---	---	---
28	---	---	---	---	---	---	12.3	8.1	9.9	---	---	---
29	---	---	---	---	---	---	12.4	8.1	10.2	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	14.6	7.2	11.6	---	---	---	15.9	5.8	8.6	---	---	---

03277075 GUNPOWDER CREEK AT CAMP ERNST ROAD NEAR UNION, KY—Continued

TURBIDITY, WATER, UNFILTERED, NEPHELOMETRIC TURBIDITY UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	76	72	74	49	29	33
2	---	---	---	---	---	---	75	71	73	>1,000	49	410
3	---	---	---	---	---	---	78	73	74	>1,000	72	140
4	---	---	---	5.0	0.0	1.9	79	71	74	>1,000	350	720
5	---	---	---	0.0	0.0	0.0	140	76	100	700	120	230
6	---	---	---	9.0	0.0	1.7	120	85	95	130	90	100
7	---	---	---	5.0	0.0	2.0	92	80	83	120	77	85
8	---	---	---	2.0	0.0	0.2	88	79	81	160	79	110
9	---	---	---	0.0	0.0	0.0	110	79	84	86	79	82
10	---	---	---	22	0.0	3.8	300	79	210	85	75	81
11	---	---	---	11	0.0	2.9	180	100	130	84	79	81
12	---	---	---	>1,000	7.0	510	110	96	100	84	80	82
13	---	---	---	560	53	110	100	95	97	89	81	83
14	>1,000	100	690	53	28	37	100	95	98	91	84	86
15	400	81	170	44	28	37	98	89	93	93	84	88
16	87	37	54	42	26	33	360	89	180	89	85	87
17	45	23	32	43	22	26	260	67	120	140	85	92
18	25	18	21	>1,000	21	150	67	30	48	250	140	190
19	20	16	18	380	80	150	30	4.0	13	---	---	---
20	19	15	18	81	18	56	5.0	3.0	3.8	---	---	---
21	22	17	19	52	37	47	13	2.0	3.7	---	---	---
22	22	18	20	50	41	43	37	3.0	8.4	---	---	---
23	26	19	21	43	40	42	870	6.0	160	---	---	---
24	24	20	22	250	41	130	240	27	85	---	---	---
25	32	22	25	110	59	73	36	12	22	---	---	---
26	400	30	220	60	53	56	17	7.0	12	---	---	---
27	180	63	92	790	53	240	12	7.0	9.1	---	---	---
28	63	51	56	530	120	260	10	5.0	7.0	---	---	---
29	---	---	---	120	79	93	560	5.0	57	---	---	---
30	---	---	---	88	74	77	620	51	160	---	---	---
31	---	---	---	---	---	---	57	33	44	---	---	---
MONTH	1,000	15	99	1,000	0.0	81	870	2.0	77	1,000	29	150
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	60	16	30	---	---	---	---	---	---
2	---	---	---	110	31	42	---	---	---	---	---	---
3	640	250	380	83	37	40	---	---	---	---	---	---
4	250	220	230	>1,000	83	410	---	---	---	---	---	---
5	690	210	290	180	130	150	---	---	---	---	---	---
6	610	340	430	170	130	150	---	---	---	---	---	---
7	350	300	320	170	120	140	---	---	---	---	---	---
8	310	280	300	140	130	130	---	---	---	---	---	---
9	300	260	270	160	130	140	---	---	---	---	---	---
10	330	270	290	150	120	130	---	---	---	---	---	---
11	---	---	---	150	130	140	---	---	---	---	---	---
12	---	---	---	150	130	140	---	---	---	---	---	---
13	---	---	---	150	130	140	>1,000	130	450	---	---	---
14	---	---	---	150	130	140	>1,000	110	250	---	---	---
15	---	---	---	340	130	150	110	77	97	---	---	---
16	---	---	---	300	180	250	100	80	89	---	---	---
17	---	---	---	280	190	240	110	80	89	---	---	---
18	---	---	---	310	190	250	140	85	110	---	---	---
19	---	---	---	340	220	270	220	100	150	---	---	---
20	---	---	---	450	140	380	440	220	310	---	---	---
21	---	---	---	440	290	350	580	310	440	---	---	---
22	---	---	---	320	270	290	>1,000	440	560	---	---	---
23	---	---	---	300	200	220	>1,000	250	400	---	---	---
24	---	---	---	260	190	220	320	230	260	---	---	---
25	---	---	---	280	170	210	>1,000	250	900	---	---	---
26	21	12	13	370	190	250	---	---	---	---	---	---
27	18	16	16	560	240	360	---	---	---	---	---	---
28	20	18	19	500	210	380	---	---	---	---	---	---
29	21	18	19	490	240	410	---	---	---	---	---	---
30	---	---	---	>1,000	350	490	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	690	12	210	1,000	16	220	1,000	77	320	---	---	---

GUNPOWDER CREEK BASIN

03277075 GUNPOWDER CREEK AT CAMP ERNST ROAD NEAR UNION, KY—Continued

TURBIDITY, WATER, UNFILTERED, NEPHELOMETRIC TURBIDITY UNITS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	JUNE			JULY			AUGUST			SEPTEMBER		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	120	40	68	42	12	24			
2	---	---	---	---	---	---	46	20	30	24	9.0	16			
3	---	---	---	---	---	---	29	12	18	2,500	13	630			
4	---	---	---	---	---	---	2,500	11	510	200	48	100			
5	---	---	---	---	---	---	200	44	89	69	24	37			
6	---	---	---	---	---	---	230	26	47	54	17	26			
7	---	---	---	---	---	---	42	15	23	44	11	16			
8	---	---	---	---	---	---	25	9.0	12	120	17	73			
9	---	---	---	---	---	---	35	6.0	9.0	120	30	65			
10	---	---	---	---	---	---	34	3.0	6.7	31	14	22			
11	---	---	---	---	---	---	16	5.2	7.8	22	7.0	11			
12	---	---	---	---	---	---	9.2	4.2	5.7	18	6.0	8.6			
13	---	---	---	---	---	---	18	4.2	5.8	19	4.0	6.5			
14	---	---	---	---	---	---	10	4.2	5.4	9.0	4.0	5.5			
15	---	---	---	---	---	---	12	4.3	5.8	18	3.0	5.7			
16	---	---	---	24	10	14	12	4.3	6.0	14	3.0	5.7			
17	---	---	---	180	13	64	71	4.3	7.7	420	5.0	150			
18	---	---	---	210	46	110	55	5.3	8.7	110	29	57			
19	---	---	---	56	9.0	27	1,900	9.3	120	37	12	19			
20	---	---	---	27	5.0	9.2	2,500	72	420	47	8.0	11			
21	---	---	---	34	4.0	7.0	150	24	64	23	6.0	8.2			
22	---	---	---	2,500	6.0	710	48	11	22	17	4.0	6.3			
23	---	---	---	130	31	68	24	6.0	11	24	3.0	5.0			
24	---	---	---	59	11	24	1,200	7.0	57	8.0	3.0	4.3			
25	---	---	---	23	6.0	11	22	4.0	7.5	16	3.0	4.1			
26	---	---	---	22	7.0	12	12	5.0	7.9	12	3.0	3.7			
27	---	---	---	32	6.0	11	37	4.0	7.2	7.0	2.0	3.5			
28	---	---	---	8.0	3.0	5.1	2,500	4.0	300	7.0	2.0	3.2			
29	---	---	---	43	2.0	3.9	560	56	150	6.0	2.0	3.2			
30	---	---	---	1,400	2.0	230	650	30	120	5.0	2.0	2.8			
31	---	---	---	2,500	120	850	66	16	37	---	---	---			
MONTH	---	---	---	2,500	2.0	130	2,500	3.0	71	2,500	2.0	44			
YEAR	2,500	0.0	120												

> Actual value is known to be greater than the value shown

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03277130 MUD LICK CREEK AT HIGHWAY 42 NEAR BEAVERLICK, KY

LOCATION.--Lat 38°50'42", long 84°43'15", Boone County, Hydrologic Unit 05090203, at bridge on Highway 42 2.8 mi southwest of Beaverlick, 2.9 mi upstream from the mouth, and 3.0 mi downstream from the confluence of Fullers Creek and McCoys Fork.

DRAINAGE AREA.--36.4 mi².

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder with telemetry. Datum of gage is 487.73 ft above NGVD of 1929.

REMARKS.--Records fair except for those below 1.0 ft³/s cfs and those estimated which are poor.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	6.0	52	55	e26	19	81	85	73	0.67	88	e1.3
2	7.7	6.8	40	455	40	25	73	482	43	0.66	32	1.2
3	6.4	8.4	34	270	464	17	63	129	25	0.60	17	15
4	6.5	9.5	29	2,510	102	262	49	80	18	0.65	99	7.8
5	5.7	10	40	689	282	113	38	60	14	0.63	51	3.2
6	5.1	11	39	139	687	148	31	e47	11	0.65	18	2.1
7	4.5	12	29	e85	150	73	28	39	8.8	1.2	11	1.6
8	4.8	12	26	e61	72	e55	24	30	7.2	1.7	7.3	1.6
9	5.5	12	24	e50	60	42	19	17	6.5	1.5	5.6	4.2
10	6.1	11	139	e40	70	34	17	e15	7.6	1.3	5.6	2.7
11	6.3	12	100	e33	62	30	15	12	8.2	36	4.6	1.8
12	6.3	502	58	e30	52	26	40	10	21	e24	3.6	1.4
13	6.8	91	46	e26	47	20	383	9.2	19	20	2.9	1.3
14	17	41	44	e22	38	22	363	8.7	7.5	5.4	2.6	1.3
15	13	38	37	e22	31	20	100	34	5.2	2.8	2.3	1.3
16	5.8	30	87	e19	e31	36	64	22	5.7	1.8	2.0	1.3
17	4.8	23	92	19	e28	35	50	11	4.9	13	1.8	7.4
18	4.7	126	60	107	e24	26	39	12	9.9	5.9	1.6	8.4
19	4.8	168	53	51	21	27	32	378	5.7	6.3	1.4	3.2
20	4.9	67	44	e36	25	28	28	57	3.9	2.7	1.6	1.9
21	4.3	46	e38	e29	32	31	33	29	2.7	1.8	4.4	1.5
22	4.2	34	42	e23	22	23	48	18	2.3	56	3.4	1.3
23	4.8	27	129	e17	20	23	51	13	2.0	11	2.0	1.2
24	4.1	74	164	e15	19	26	31	9.3	1.6	4.2	1.6	1.2
25	4.4	45	74	e16	18	22	53	7.4	1.3	2.4	2.6	1.2
26	e12	34	54	e24	16	20	39	62	1.2	6.1	2.3	e1.2
27	9.2	241	46	e33	15	20	26	850	1.1	4.6	5.5	1.2
28	5.5	441	40	e31	14	19	20	553	0.93	3.1	3.0	1.1
29	5.5	131	53	e25	14	26	17	81	0.84	2.2	2.1	0.99
30	5.5	74	199	e26	---	114	53	61	0.72	e66	1.8	0.91
31	4.7	---	72	e26	---	85	---	392	---	1,490	1.5	---
TOTAL	202.9	2,343.7	1,984	4,984	2,482	1,467	1,908	3,613.6	319.79	1,774.86	389.1	81.80
MEAN	6.55	78.1	64.0	161	85.6	47.3	63.6	117	10.7	57.3	12.6	2.73
MAX	17	502	199	2,510	687	262	383	850	73	1,490	99	15
MIN	4.1	6.0	24	15	14	17	15	7.4	0.72	0.60	1.4	0.91

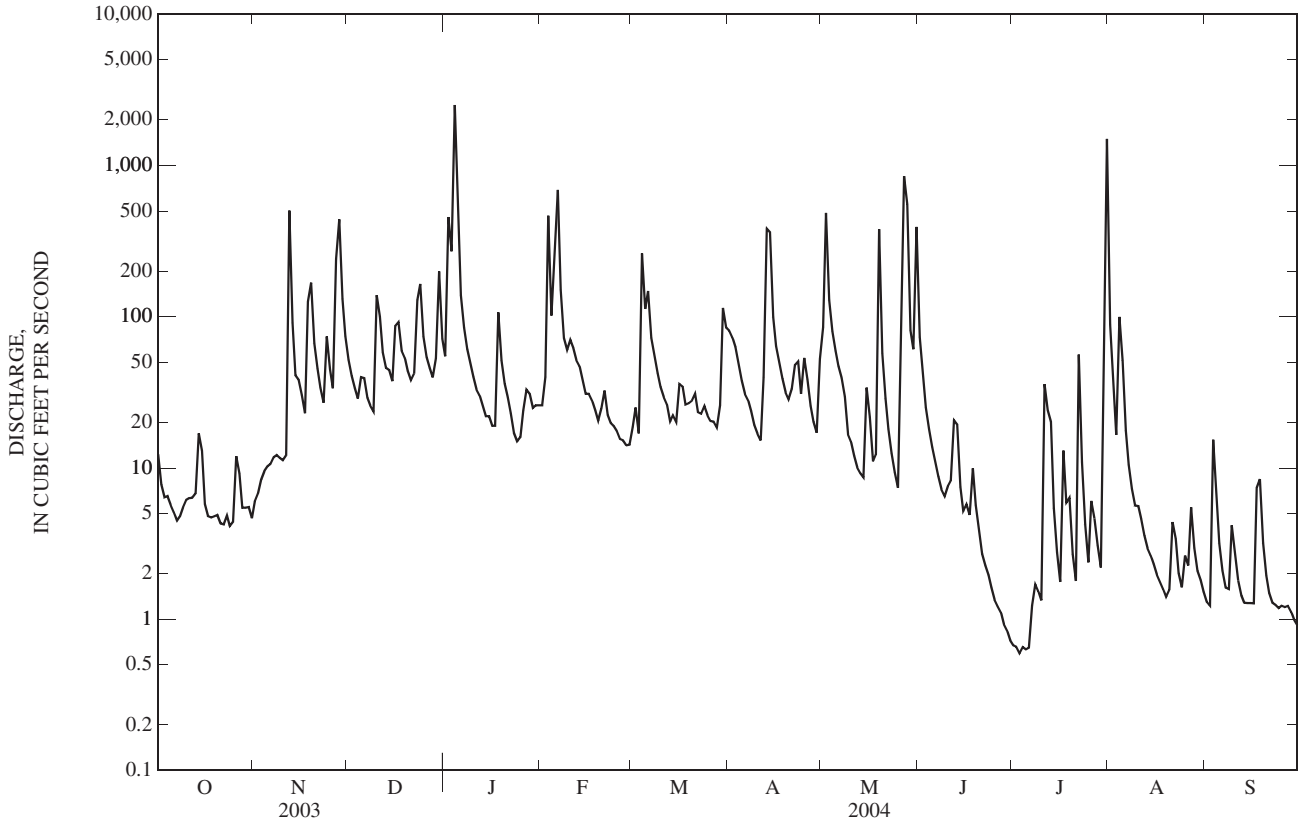
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

MEAN	24.4	51.8	81.4	76.6	74.5	57.9	67.5	111	24.3	38.1	22.0	27.2
MAX	52.5	78.1	114	161	121	97.3	165	180	41.2	69.6	57.3	80.2
(WY)	(2002)	(2004)	(2002)	(2004)	(2003)	(2002)	(2002)	(2002)	(2001)	(2001)	(2003)	(2003)
MIN	6.55	27.0	53.3	19.6	44.9	28.6	11.9	8.49	10.7	0.76	0.79	2.73
(WY)	(2004)	(2003)	(2001)	(2001)	(2002)	(2001)	(2001)	(2001)	(2004)	(2002)	(2002)	(2004)

03277130 MUD LICK CREEK AT HIGHWAY 42 NEAR BEAVERLICK, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL TOTAL	22,388.0		21,550.75		62.3	
ANNUAL MEAN	61.3		58.9		58.9	
HIGHEST ANNUAL MEAN					67.8	2002
LOWEST ANNUAL MEAN					58.9	2004
HIGHEST DAILY MEAN	2,080	May 10	2,510	Jan 4	2,510	Jan 4, 2004
LOWEST DAILY MEAN	1.6	Jul 6	0.60	Jul 3	0.00	Jul 8, 2002
ANNUAL SEVEN-DAY MINIMUM	2.2	Jun 30	0.65	Jun 30	0.00	Aug 2, 2002
MAXIMUM PEAK FLOW			5,860	May 27	12,600	Apr 21, 2002
MAXIMUM PEAK STAGE			7.76	May 27	10.26	Apr 21, 2002
10 PERCENT EXCEEDS	108		99		110	
50 PERCENT EXCEEDS	23		20		18	
90 PERCENT EXCEEDS	5.5		1.6		1.3	

e Estimated



03277130 MUD LICK CREEK AT HIGHWAY 42 NEAR BEAVERLICK, KY

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 2002 to September 2004.

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 2000 to current water year.

pH: December 2000 to current water year.

WATER TEMPERATURES: December 2000 to current water year.

DISSOLVED OXYGEN: December 2000 to current water year.

TURBIDITY: December 2000 to current water year.

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

REMARKS.--

SPECIFIC CONDUCTANCE: Records rated excellent except for the following periods: Oct. 1-9, Nov. 12-19 rated good; Nov. 20-25 rated fair; Nov. 26-Dec. 19 rated poor.

pH: Records rated good.

WATER TEMPERATURES: Records rated excellent except for the following periods: Jun. 16-Jul. 18 rated good.

DISSOLVED OXYGEN: Records rated poor.

TURBIDITY: Records rated fair except for the following period: Oct. 1-Jun. 1 rated poor.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1640 microsiemens, Jan. 28, 2004; minimum recorded, 113 microsiemens, Apr. 21, 2002.

pH: Maximum recorded, 9.0 units, Dec. 2, 3, 5, 6, and 9, 2000; minimum recorded, 7.0 units, Jul. 13, 2004.

WATER TEMPERATURES: Maximum recorded, 33.8°C, Jun. 25, 2002; minimum recorded, -0.3°C, Dec. 21, 2003, Jan. 7, 10, 11, 20-31 and Feb. 1-3, 14, 16-18, 2004.

DISSOLVED OXYGEN: Maximum recorded, 18.4 mg/L, Dec. 7, 2002; minimum recorded, 1.5 mg/L, Sept. 8, 2002.

TURBIDITY: Maximum recorded, 2500 NTU, Jul. 31, 2004; minimum recorded, 0.0 NTU, Feb. 25 and April 2, 6-8, Oct. 31, Nov. 1, 2, 4, 5, 14, 16, 20, 21, 2002, Mar. 30, 2003, Oct. 9-14, Dec. 20-30, 27-20, 2003 and Sept. 26, 27, 30, 2004.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1640 microsiemens, Jan. 28, 2004; minimum recorded, 150 microsiemens, Jul. 31, 2004.

pH: Maximum recorded, 8.9 units, Sept. 22, 23, 2004; minimum recorded, 7.0 units, Jul. 13, 2004.

WATER TEMPERATURES: Maximum recorded, 32.6°C, July 6, 2004; minimum recorded, -0.3°C, Dec. 21, 2003, Jan. 7, 10, 11, 20-31 and Feb. 1-3, 14, 16-18, 2004.

DISSOLVED OXYGEN: Maximum recorded, 17.1 mg/L, Apr. 6, 2004; minimum recorded, 2.4 mg/L, July 7, 2004.

TURBIDITY: Maximum recorded, 2500 NTU, May 27, 2004 and Jul. 31, 2004; minimum recorded, 0.0 NTU, Oct. 9-14, Dec. 20-23, 27-30, 2003 and Sept. 26, 27, 30, 2004.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	559	535	539	601	573	585	503	487	498	587	576	582
2	563	543	553	610	584	598	515	501	508	586	305	396
3	564	554	560	622	591	607	526	512	520	530	248	488
4	569	548	560	639	614	623	537	525	531	252	159	209
5	561	537	552	653	638	642	543	535	539	392	159	308
6	571	526	552	658	641	649	554	540	549	455	392	427
7	566	520	550	656	646	651	545	539	542	486	455	473
8	569	522	551	656	646	651	556	543	547	512	486	499
9	569	528	554	662	649	654	568	555	561	560	507	525
10	578	549	565	671	655	662	572	476	537	626	560	597
11	589	554	573	682	652	671	564	476	524	646	624	639
12	599	575	589	676	251	367	589	564	579	624	578	588
13	605	578	594	420	324	380	622	589	602	583	575	579
14	608	567	597	463	420	444	648	539	614	601	583	588
15	602	517	536	490	463	475	937	617	731	597	588	593
16	534	516	520	508	490	502	1,030	732	901	605	594	597
17	547	534	542	519	508	512	734	630	659	666	605	629
18	563	547	554	527	348	486	666	637	648	819	543	671
19	567	540	556	434	357	396	905	647	751	630	582	590
20	560	538	550	469	434	452	934	880	905	608	584	599
21	560	526	546	492	469	483	986	871	935	609	562	603
22	554	519	539	507	492	499	871	733	775	616	595	601
23	543	513	531	516	506	509	750	536	687	641	616	631
24	547	522	534	517	463	483	698	544	575	647	616	632
25	552	529	543	485	454	465	590	573	585	640	624	635
26	573	524	541	519	485	504	598	587	594	640	624	632
27	619	573	606	523	366	451	603	594	599	1,580	625	1,000
28	619	551	585	397	360	377	606	598	603	1,640	1,300	1,490
29	609	520	545	464	394	436	639	406	588	1,300	1,060	1,240
30	576	531	543	490	462	478	560	461	510	1,060	893	938
31	587	552	565	---	---	---	576	539	565	943	898	922
MONTH	619	513	556	682	251	523	1,030	406	621	1,640	159	642

03277130 MUD LICK CREEK AT HIGHWAY 42 NEAR BEAVERLICK, KY—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	13.7	11.8	12.8	17.0	14.2	15.4	5.8	4.2	5.2	4.7	2.2	3.3
2	13.1	10.6	11.8	18.5	14.3	16.2	4.2	2.5	3.3	9.1	4.7	7.3
3	12.1	8.8	10.7	18.3	13.9	15.8	3.3	3.0	3.1	11.8	9.1	10.6
4	14.2	11.2	12.4	17.9	13.1	15.5	4.3	3.0	3.5	10.7	7.9	8.7
5	15.1	11.1	13.1	17.0	14.9	15.8	5.3	4.3	4.9	8.1	5.6	7.1
6	16.5	12.6	14.4	14.9	12.0	13.5	5.8	4.7	5.1	5.6	0.4	3.1
7	17.0	12.4	14.6	12.0	9.0	10.8	5.3	3.5	4.5	0.5	-0.3	0.0
8	17.6	13.0	15.2	9.3	6.7	8.0	4.6	2.8	3.8	1.2	-0.1	0.5
9	17.8	13.6	15.7	8.4	4.9	6.6	6.4	4.6	5.6	1.9	1.1	1.5
10	18.5	16.0	17.2	9.0	5.1	7.2	8.3	6.4	7.4	1.1	-0.3	0.1
11	20.6	15.9	18.0	11.0	8.3	9.8	7.5	4.4	5.9	0.8	-0.3	0.1
12	20.0	16.8	18.0	14.3	11.0	13.2	4.4	1.9	3.1	1.6	0.1	0.9
13	19.0	13.8	16.3	12.9	6.8	9.4	1.9	1.1	1.3	1.6	0.5	1.2
14	16.2	13.8	15.1	6.8	4.8	5.8	1.7	0.6	1.2	1.9	-0.2	0.9
15	15.1	12.2	13.6	7.0	6.0	6.5	2.6	1.6	2.0	1.9	0.6	1.2
16	15.1	10.9	13.2	8.7	7.0	8.0	4.9	1.7	3.0	1.8	0.0	0.7
17	13.9	11.9	13.2	10.0	7.8	8.9	4.8	2.2	3.6	1.5	0.3	0.8
18	14.2	10.6	12.2	12.8	9.5	11.0	2.3	1.7	2.0	3.5	1.5	2.5
19	15.2	10.5	12.7	13.0	10.7	12.4	2.1	1.5	1.9	2.2	0.0	1.0
20	15.9	11.2	13.5	10.7	8.6	9.7	1.5	-0.1	0.6	0.1	-0.3	-0.2
21	16.3	13.6	14.9	10.2	7.7	9.0	0.6	-0.3	0.1	0.5	-0.3	-0.1
22	15.1	12.0	13.5	10.9	8.2	9.6	3.8	0.2	1.8	1.0	-0.3	0.0
23	13.4	10.6	11.8	12.6	10.2	11.5	5.7	3.8	4.9	-0.2	-0.3	-0.3
24	13.4	8.7	10.9	12.2	6.4	9.6	5.7	3.5	4.5	0.4	-0.3	-0.1
25	14.3	9.9	12.0	6.4	4.4	5.2	3.5	1.9	2.9	-0.2	-0.3	-0.3
26	13.4	11.9	12.7	6.4	4.3	5.4	1.9	0.3	1.2	-0.2	-0.3	-0.3
27	12.3	10.0	11.2	9.6	6.4	7.9	2.0	0.0	1.1	-0.2	-0.3	-0.3
28	10.2	9.0	9.7	9.6	6.5	8.4	3.3	0.7	2.1	-0.2	-0.3	-0.3
29	12.3	9.4	10.8	6.5	4.9	5.5	5.7	2.9	4.2	-0.1	-0.3	-0.3
30	13.6	9.3	11.6	6.3	4.3	5.3	6.0	3.8	5.0	-0.3	-0.3	-0.3
31	15.7	11.4	13.4	---	---	---	4.2	2.3	3.4	-0.2	-0.3	-0.3
MONTH	20.6	8.7	13.4	18.5	4.3	9.9	8.3	-0.3	3.3	11.8	-0.3	1.6
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	-0.2	-0.3	-0.3	8.5	6.6	7.6	9.2	7.7	8.6	18.6	15.8	17.0
2	-0.2	-0.3	-0.3	11.8	7.8	9.6	8.8	7.4	8.3	16.6	11.8	13.4
3	0.2	-0.3	-0.1	9.5	7.3	8.2	12.9	7.2	10	14.0	9.7	11.9
4	2.2	0.0	1.0	9.9	7.0	8.7	11.0	8.1	9.3	13.7	9.8	11.9
5	2.0	0.8	1.5	13.3	9.7	11.5	11.5	5.8	8.6	18.7	12.4	15.2
6	3.4	1.6	2.8	11.9	8.5	10.3	13.1	6.6	9.8	21.1	14.9	17.9
7	2.9	1.5	2.1	8.5	6.3	7.4	15.3	10.6	12.9	21.6	17.3	19.5
8	2.2	0.6	1.3	6.9	5.5	6.2	18.2	13.2	15.3	23.0	17.4	20.3
9	2.4	0.3	1.3	6.9	5.3	6.0	16.3	12.1	14.2	24.2	18.8	21.4
10	4.0	1.6	2.8	7.9	3.2	5.5	17.4	12.1	14.6	24.4	19.7	22.1
11	3.0	0.7	2.1	7.6	4.3	5.6	16.2	13.4	14.6	25.1	20.0	22.4
12	4.0	2.1	2.9	7.1	3.0	5.0	13.6	8.9	11.1	25.2	20.2	22.7
13	2.7	0.7	1.7	6.9	2.3	4.7	8.9	6.6	7.6	24.2	21.0	22.6
14	2.4	-0.3	0.9	7.0	5.0	5.7	12.8	6.7	9.3	23.3	21.2	22.1
15	2.4	0.2	1.1	9.1	3.6	6.4	14.5	8.3	11.4	21.8	17.2	19.3
16	1.9	-0.3	0.6	7.5	4.3	5.6	17.2	11.0	14.0	19.6	16.6	17.8
17	2.7	-0.3	1.0	4.8	3.5	4.3	19.7	13.3	16.5	22.9	16.9	19.6
18	3.2	-0.3	1.4	7.0	3.9	5.3	21.6	15.8	18.7	24.1	19.1	21.5
19	4.3	0.5	2.4	9.2	4.8	6.7	19.5	17.4	18.2	22.4	18.4	19.8
20	5.2	3.0	4.0	10.3	5.9	8.1	18.1	15.7	16.8	22.1	19.0	20.5
21	4.7	3.6	4.2	8.9	4.6	6.9	16.7	15.5	16.1	24.4	20.6	22.4
22	6.6	3.0	4.6	7.5	2.8	5.0	15.5	14.7	15.0	25.6	21.9	23.7
23	6.1	3.0	4.6	8.1	2.5	5.3	14.9	13.9	14.4	26.1	22.3	24.2
24	6.1	4.6	5.3	11.3	6.6	8.7	16.7	12.5	14.7	27.0	23.1	24.9
25	6.6	2.9	4.7	13.7	10.0	11.8	17.5	15.0	16.1	26.8	22.5	24.5
26	6.0	3.0	4.5	14.7	12.0	13.3	18.2	14.4	16.3	23.9	19.9	21.5
27	7.4	2.8	4.9	16.2	13.5	14.7	16.2	12.9	14.5	20.6	17.7	19.0
28	7.7	2.4	5.0	18.2	13.0	15.6	17.1	10.7	13.9	20.8	18.1	19.3
29	8.4	3.5	5.9	16.1	11.8	14.2	19.5	13.3	16.2	20.8	17.5	19.1
30	---	---	---	12.8	10.7	11.6	17.5	15.6	16.5	19.9	18.5	19.0
31	---	---	---	11.7	8.6	10.0	---	---	---	20.8	18.0	19.1
MONTH	8.4	-0.3	2.5	18.2	2.3	8.2	21.6	5.8	13.4	27.0	9.7	19.9

03277130 MUD LICK CREEK AT HIGHWAY 42 NEAR BEAVERLICK, KY—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.0	8.2	8.9	14.8	5.4	8.6	12.6	11.1	11.8	14.7	11.9	13.2
2	11.0	8.2	9.4	12.2	5.3	8.3	13.4	11.7	12.5	12.2	10.7	11.3
3	12.0	8.4	9.8	12.3	6.0	9.0	13.1	12.0	12.4	10.7	9.4	10.1
4	12.3	8.0	9.5	---	---	---	12.8	11.5	12.2	11.6	10.2	11.2
5	12.8	7.6	9.6	---	---	---	12.0	10.8	11.3	11.6	10.7	11.0
6	13.7	7.4	9.7	---	---	---	12.8	11.0	11.6	12.6	10.7	11.7
7	14.6	7.2	10	---	---	---	13.1	11.0	11.9	13.3	12.6	12.9
8	14.9	7.0	9.9	---	---	---	13.4	11.3	12.2	13.0	12.2	12.6
9	13.6	6.1	9.0	---	---	---	11.7	9.8	11.0	12.6	12.0	12.3
10	13.0	5.3	7.7	---	---	---	11.6	9.8	10.7	13.4	12.4	13.0
11	13.2	4.9	7.5	---	---	---	11.7	10.8	11.3	13.4	12.6	13.0
12	11.3	4.3	6.5	---	---	---	13.5	11.4	12.4	12.9	12.2	12.6
13	11.3	5.0	7.2	---	---	---	13.6	12.3	12.8	13.0	12.3	12.6
14	7.9	5.1	6.2	---	---	---	13.6	12.3	12.8	13.4	12.2	12.7
15	9.3	6.2	7.3	---	---	---	13.8	12.0	12.6	13.1	12.2	12.7
16	10.5	6.1	7.7	---	---	---	12.8	11.2	12.0	13.7	12.8	13.2
17	10.3	6.2	7.3	---	---	---	11.8	10.9	11.4	---	12.5	13.0
18	11.2	6.7	8.4	---	---	---	13.0	11.6	12.2	---	12.1	12.5
19	11.8	6.7	8.6	---	---	---	13.4	11.6	12.3	---	12.3	13.0
20	13.1	6.6	8.8	---	---	---	14.7	12.2	13.4	---	13.3	13.7
21	13.0	4.9	8.2	---	---	---	14.7	13.1	13.8	---	13.5	13.7
22	13.6	5.1	8.7	---	---	---	13.9	11.5	12.9	---	13.6	13.8
23	14.9	6.7	9.5	---	---	---	12.1	11.2	11.5	14.5	13.5	13.9
24	14.4	7.3	10.2	---	---	---	12.2	11.2	11.8	14.2	13.3	13.8
25	13.2	7.5	9.7	---	---	---	13.9	11.8	12.7	14.2	13.3	13.7
26	11.6	7.1	8.9	13.5	11.2	12.1	14.7	12.5	13.5	14.1	13.2	13.6
27	13.8	8.2	9.8	12.9	10.8	11.4	14.8	12.8	13.6	14.3	13.2	13.6
28	12.4	7.3	9.2	12.4	11.1	11.8	14.7	12.2	13.3	14.6	13.5	14.0
29	16.3	5.7	9.8	12.5	11.7	12.0	13.8	11.3	12.4	14.5	13.5	13.9
30	14.8	6.6	10.2	12.5	11.0	11.8	12.5	11.6	12.1	14.5	13.5	13.9
31	16.6	6.0	9.5	---	---	---	14.4	12.2	13.0	15.0	13.5	14.1
MONTH	16.6	4.3	8.8	14.8	5.3	10.6	14.8	9.8	12.3	15.0	9.4	12.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.2	13.5	14.2	13.1	10.1	11.2	13.1	10.5	11.5	10.6	8.7	9.6
2	14.8	13.5	14.0	13.6	9.6	11.2	13.7	10.5	11.6	11.9	10.5	11.5
3	13.8	13.6	13.7	13.0	9.2	10.7	14.7	9.8	12.0	13.4	11.3	12.3
4	14.1	13.1	13.6	11.2	10.1	10.7	15.0	9.8	12.0	14.2	10.7	12.5
5	13.4	12.9	13.2	10.9	9.0	9.9	16.5	10.7	13.2	13.5	9.2	11.6
6	13.2	12.5	12.7	11.2	9.6	10.2	17.1	10.4	13.6	13.3	8.7	10.8
7	13.4	12.6	13.1	12.7	9.9	11.0	16.0	9.3	12.2	12.4	8.5	10.2
8	13.9	13.0	13.4	13.3	10.2	11.5	14.1	8.6	10.7	12.8	7.8	10.1
9	13.9	12.6	13.3	13.6	10.4	11.7	14.0	8.4	10.9	12.3	7.7	9.6
10	13.6	12.4	12.8	14.3	10.7	12.2	14.4	8.7	11.0	---	---	---
11	13.9	12.4	13.1	14.1	10.6	11.9	14.0	8.3	10.4	---	---	---
12	13.6	12.3	12.8	14.8	10.7	12.5	12.3	8.9	10.7	---	---	---
13	14.3	12.3	13.3	15.0	11.0	12.7	13.3	11.0	12.1	---	---	---
14	14.9	13.0	13.9	14.3	10.5	11.9	13.2	10.6	12.2	---	---	---
15	14.9	13.0	13.8	14.8	10.1	12.3	13.0	8.9	11.3	---	---	---
16	15.4	13.4	14.3	13.0	9.9	11.3	13.6	9.1	11.2	---	---	---
17	15.4	13.4	14.3	14.4	11.0	12.5	14.9	8.8	11.2	12.9	8.3	10.6
18	15.5	13.2	14.2	15.0	10.8	12.4	14.2	7.7	10.7	12.4	7.4	9.8
19	15.4	12.4	13.8	15.3	10.5	12.4	12.6	7.6	9.7	10.8	7.1	9.7
20	14.1	11.7	12.5	14.2	9.7	11.4	12.5	8.1	10.0	10.3	8.5	9.6
21	14.4	11.6	12.7	13.9	9.6	11.6	11.3	8.3	9.5	10.2	7.5	8.9
22	16.0	12.0	13.6	15.6	11.5	13.2	11.6	9.0	10.0	9.6	6.4	8.1
23	16.2	11.8	13.5	15.8	11.2	13.2	12.1	9.4	10.5	9.4	6.1	7.7
24	15.1	11.3	12.8	14.8	9.8	12.1	13.7	9.1	11.2	9.8	5.9	7.5
25	15.6	11.3	13.2	13.6	9.0	11.0	11.0	8.6	9.4	9.8	5.9	7.5
26	16.0	11.7	13.4	12.6	8.4	10	12.5	8.6	10.0	8.6	5.9	7.3
27	15.5	11.7	13.2	12.0	8.1	9.4	13.0	8.6	10.7	10.1	8.3	9.5
28	15.3	11.4	13.0	12.3	7.8	9.6	13.6	9.0	11.2	9.9	9.0	9.6
29	15.1	10.8	12.7	9.9	7.6	8.7	12.8	7.9	10.4	10.1	8.7	9.5
30	---	---	---	11.1	9.6	10.4	10.2	8.2	9.0	9.7	8.7	9.1
31	---	---	---	11.7	9.6	10.7	---	---	---	9.7	8.5	9.1
MONTH	16.2	10.8	13.4	15.8	7.6	11.3	17.1	7.6	11.0	14.2	5.9	9.7

03277130 MUD LICK CREEK AT HIGHWAY 42 NEAR BEAVERLICK, KY—Continued

TURBIDITY, WATER, UNFILTERED, NEPHELOMETRIC TURBIDITY UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.6	0.4	1.8	110	97	100	20	1.0	4.9			
2	---	---	---	3.2	0.3	1.3	100	93	98	>1,000	20	390			
3	---	---	---	7.0	1.0	2.6	95	91	92	>1,000	31	140			
4	---	---	---	5.0	2.0	3.1	140	90	94	>1,000	88	620			
5	---	---	---	8.0	3.0	3.4	120	97	100	>1,000	84	240			
6	---	---	---	11	2.0	4.7	110	100	110	130	45	72			
7	---	---	---	5.0	3.0	3.2	110	100	100	120	53	92			
8	---	---	---	8.0	3.0	4.2	100	93	97	100	82	93			
9	5.0	0.0	1.7	6.0	3.0	3.9	170	94	130	120	43	78			
10	6.0	0.0	0.2	6.0	3.0	4.0	900	130	250	45	38	41			
11	3.0	0.0	0.0	15	4.0	5.5	390	78	140	40	35	37			
12	4.0	0.0	0.2	>1,000	9.0	380	92	63	70	37	34	36			
13	0.0	0.0	0.0	870	96	230	68	62	64	72	27	34			
14	65	0.0	13	98	60	78	69	63	65	94	34	53			
15	63	28	43	95	52	66	120	63	66	74	37	47			
16	29	8.0	18	69	49	54	480	65	130	61	37	53			
17	11	3.0	6.4	320	47	73	250	110	170	94	20	48			
18	4.0	2.0	2.8	840	37	180	110	61	92	---	---	---			
19	4.0	1.0	2.3	410	110	190	74	1.0	25	---	---	---			
20	7.0	2.0	2.8	140	77	97	6.0	0.0	1.7	---	---	---			
21	6.0	2.0	3.3	93	66	72	7.0	0.0	0.6	---	---	---			
22	6.0	2.0	3.6	91	64	70	6.0	0.0	0.7	---	---	---			
23	5.0	2.0	3.3	160	57	82	350	0.0	73	---	---	---			
24	5.0	2.0	3.1	180	55	110	270	26	100	---	---	---			
25	7.0	2.0	3.3	300	62	87	26	6.0	14	---	---	---			
26	26	3.0	9.5	63	46	54	11	2.0	4.0	---	---	---			
27	16	4.7	8.4	>1,000	46	260	11	0.0	1.5	---	---	---			
28	16	3.4	5.2	980	160	260	2.0	0.0	0.4	---	---	---			
29	6.3	2.2	3.5	280	130	180	>1,000	0.0	42	---	---	---			
30	5.1	1.1	2.4	130	110	120	810	38	160	---	---	---			
31	2.8	0.7	1.5	---	---	---	38	6.0	17	---	---	---			
MONTH	65	0.0	6.0	1,000	0.3	89	1,000	0.0	78	1,000	1.0	120			
	FEBRUARY			MARCH			APRIL			MAY					
1	---	---	---	---	---	---	91	51	68	1,500	88	220			
2	---	---	---	---	---	---	---	---	---	1,200	160	440			
3	990	77	260	---	---	---	---	---	---	160	71	100			
4	79	27	47	>1,000	99	360	---	---	---	140	60	82			
5	830	28	180	170	69	88	31	5.0	20	---	---	---			
6	440	81	170	320	79	120	17	4.6	5.9	---	---	---			
7	81	25	45	360	64	92	17	6.1	7.7	---	---	---			
8	---	---	---	120	42	57	34	7.4	9.4	---	---	---			
9	---	---	---	45	39	41	69	8.0	9.9	---	---	---			
10	---	---	---	47	21	36	12	9.0	10	---	---	---			
11	---	---	---	37	35	36	19	11	12	---	---	---			
12	---	---	---	38	21	36	180	12	56	---	---	---			
13	---	---	---	39	22	36	1,300	48	400	---	---	---			
14	---	---	---	38	36	37	520	100	210	---	---	---			
15	---	---	---	39	37	38	---	---	---	---	---	---			
16	---	---	---	62	39	49	---	---	---	---	---	---			
17	---	---	---	58	47	52	---	---	---	---	---	---			
18	---	---	---	55	43	47	---	---	---	---	---	---			
19	---	---	---	50	38	44	---	---	---	---	---	---			
20	---	---	---	76	35	39	---	---	---	---	---	---			
21	---	---	---	88	38	42	---	---	---	---	---	---			
22	---	---	---	42	24	38	---	---	---	---	---	---			
23	---	---	---	41	24	38	---	---	---	---	---	---			
24	---	---	---	47	38	40	---	---	---	---	---	---			
25	---	---	---	48	38	40	---	---	---	---	---	---			
26	---	---	---	56	40	43	---	---	---	1,300	72	320			
27	---	---	---	54	38	44	---	---	---	2,500	200	540			
28	---	---	---	51	41	45	---	---	---	2,400	110	390			
29	---	---	---	170	44	64	---	---	---	150	62	86			
30	---	---	---	230	75	120	---	---	---	160	55	78			
31	---	---	---	94	61	74	---	---	---	1,400	100	400			
MONTH	990	25	140	1,000	21	64	1,300	4.6	74	2,500	55	270			

MUD LICK CREEK BASIN

03277130 MUD LICK CREEK AT HIGHWAY 42 NEAR BEAVERLICK, KY—Continued

TURBIDITY, WATER, UNFILTERED, NEPHELOMETRIC TURBIDITY UNITS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	120	50	70	---	---	---	190	43	78	16	3.0	5.0
2	64	38	49	---	---	---	58	24	37	16	3.0	5.4
3	---	---	---	---	---	---	35	14	24	950	5.0	210
4	---	---	---	---	---	---	2,400	19	350	120	15	49
5	41	16	22	---	---	---	570	60	220	26	10	14
6	39	13	18	---	---	---	66	28	41	22	9.0	12
7	26	11	15	---	---	---	48	20	26	21	8.0	10
8	31	9.0	15	---	---	---	26	15	20	26	7.0	10
9	28	10	14	---	---	---	37	11	15	28	7.0	11
10	26	8.0	13	---	---	---	37	8.0	12	20	7.0	9.3
11	49	12	16	---	---	---	12	4.0	7.5	22	5.0	8.4
12	220	16	69	---	---	---	16	4.0	6.2	23	4.0	7.5
13	190	30	87	---	---	---	27	1.0	6.1	21	4.0	8.5
14	57	15	27	110	60	73	6.0	1.0	2.4	25	5.0	8.1
15	49	9.0	16	67	29	46	5.0	1.0	3.0	23	4.0	8.0
16	33	8.0	14	36	11	23	7.0	1.0	3.6	24	5.0	8.4
17	28	9.0	16	120	14	48	9.0	2.0	3.4	73	4.0	23
18	96	16	49	85	49	61	8.0	2.0	3.5	56	12	21
19	99	58	85	120	51	84	8.0	3.0	3.8	16	6.0	9.0
20	99	6.0	37	52	17	32	25	4.0	7.6	22	4.0	6.3
21	---	---	---	24	17	19	8.0	4.0	5.8	9.0	3.0	4.4
22	---	---	---	1,500	420	720	7.0	3.0	4.9	7.0	1.0	3.4
23	---	---	---	620	140	320	9.0	3.0	3.9	10	1.0	3.3
24	---	---	---	250	54	88	9.0	3.0	4.0	7.0	1.0	2.8
25	---	---	---	73	30	45	12	3.0	4.8	9.0	2.0	3.2
26	---	---	---	180	26	45	14	3.0	5.8	7.0	0.0	1.9
27	---	---	---	66	25	37	11	3.0	5.9	8.0	0.0	1.9
28	---	---	---	78	20	29	14	4.0	6.0	8.0	1.0	2.5
29	---	---	---	130	14	23	10	4.0	5.3	8.0	1.0	2.4
30	---	---	---	2,400	12	320	15	3.0	4.9	7.0	0.0	2.1
31	---	---	---	2,500	54	740	16	3.0	6.1	---	---	---
MONTH	220	6.0	35	2,500	11	150	2,400	1.0	30	950	0.0	16
YEAR	2,500	0.0	72									

> Actual value is known to be greater than the value shown

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03277200 OHIO RIVER AT MARKLAND DAM NEAR WARSAW, KY

LOCATION.--Lat 38°46'29", long 84°57'52". Gallatin County, Hydrologic Unit 05090203, at left end of Markland Dam, 0.4 mi upstream from Stephens Creek, 3.4 mi west of Warsaw, and at mile 531.5.

DRAINAGE AREA.--83,170 mi², approximately.

PERIOD OF RECORD.--May 1970 to current year.

REVISED RECORDS.--WDR KY-88-1: 1987.

GAGE.--Water-stage recorder with telemetry in tailwater gage. Datum of headwater gage 0.5 mi upstream is 443 ft Ohio River datum. Datum of tailwater gage 0.4 mi downstream is 35 ft lower. Records of Markland Dam gate operations, headwater gage readings, and turbine flow are furnished by U.S. Army Corps of Engineers.

REMARKS.--Records good except for estimated period and those below 20,000 ft³/s, which are poor. Daily discharge computed from head, gate openings, turbine flow, and tailwater rating. Flow regulated by Ohio River system of locks, dams, and reservoirs upstream from station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 26, 1937, reached a stage of 76.1 ft (tailwater gage).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132,000	103,000	280,000	173,000	54,600	88,700	200,000	160,000	447,000	48,300	96,300	48,900
2	117,000	94,500	266,000	209,000	70,100	93,400	223,000	171,000	440,000	50,900	93,800	42,700
3	90,000	75,700	241,000	247,000	87,200	102,000	272,000	171,000	426,000	42,500	108,000	40,300
4	82,100	66,400	205,000	375,000	157,000	144,000	311,000	137,000	379,000	32,500	102,000	29,400
5	65,100	67,900	175,000	492,000	203,000	196,000	314,000	137,000	191,000	43,900	93,000	28,900
6	63,700	89,400	162,000	507,000	281,000	242,000	283,000	139,000	166,000	36,700	82,200	32,100
7	73,100	121,000	153,000	508,000	395,000	324,000	238,000	126,000	175,000	44,900	72,100	33,400
8	70,400	137,000	155,000	509,000	431,000	420,000	202,000	102,000	164,000	39,000	62,200	21,200
9	55,500	140,000	153,000	507,000	461,000	441,000	168,000	82,300	120,000	35,700	42,200	126,000
10	40,100	113,000	133,000	491,000	479,000	438,000	149,000	76,400	95,100	35,000	27,700	244,000
11	48,800	85,400	136,000	381,000	469,000	408,000	136,000	66,700	70,800	32,700	32,700	309,000
12	38,800	121,000	161,000	335,000	416,000	279,000	129,000	65,500	103,000	38,600	32,200	322,000
13	39,400	212,000	215,000	e303,000	253,000	227,000	128,000	80,200	162,000	31,800	30,900	314,000
14	36,500	308,000	248,000	e254,000	199,000	189,000	232,000	86,500	187,000	44,000	28,900	253,000
15	51,000	329,000	246,000	e220,000	164,000	166,000	367,000	85,500	202,000	66,500	23,100	153,000
16	93,900	310,000	223,000	e196,000	138,000	143,000	424,000	75,000	212,000	39,700	27,100	119,000
17	103,000	231,000	221,000	e169,000	117,000	123,000	452,000	74,000	217,000	41,400	24,000	112,000
18	92,600	172,000	234,000	e152,000	93,300	115,000	453,000	74,600	224,000	44,200	25,100	221,000
19	102,000	150,000	233,000	e146,000	85,200	133,000	428,000	102,000	198,000	38,200	19,800	338,000
20	88,300	221,000	224,000	e159,000	81,400	136,000	377,000	149,000	194,000	39,600	21,200	422,000
21	79,100	285,000	195,000	e176,000	83,700	143,000	218,000	184,000	190,000	46,800	54,200	448,000
22	64,900	430,000	168,000	e172,000	112,000	165,000	181,000	199,000	166,000	63,800	98,300	461,000
23	62,000	452,000	149,000	e141,000	126,000	190,000	185,000	209,000	133,000	49,500	131,000	451,000
24	55,900	452,000	156,000	e122,000	137,000	210,000	174,000	254,000	101,000	45,600	133,000	412,000
25	49,200	424,000	175,000	e106,000	136,000	205,000	178,000	283,000	98,800	38,700	74,700	242,000
26	45,000	293,000	207,000	e88,600	133,000	182,000	179,000	272,000	91,300	38,200	46,600	167,000
27	56,500	231,000	236,000	e63,700	122,000	157,000	158,000	253,000	82,400	49,700	41,000	123,000
28	83,500	231,000	242,000	84,100	107,000	141,000	157,000	365,000	86,300	96,800	44,200	102,000
29	94,900	261,000	213,000	93,900	91,500	137,000	184,000	392,000	86,400	111,000	35,100	86,900
30	100,000	275,000	199,000	84,400	---	151,000	187,000	422,000	58,200	99,400	77,500	103,000
31	107,000	---	187,000	70,500	---	189,000	---	443,000	---	133,000	61,200	---
TOTAL	2,281,300	6,481,300	6,191,000	7,535,200	5,683,000	6,278,100	7,287,000	5,436,700	5,466,300	1,598,600	1,841,300	5,805,800
MEAN	73,590	216,000	199,700	243,100	196,000	202,500	242,900	175,400	182,200	51,570	59,400	193,500
MAX	132,000	452,000	280,000	509,000	479,000	441,000	453,000	443,000	447,000	133,000	133,000	461,000
MIN	36,500	66,400	133,000	63,700	54,600	88,700	128,000	65,500	58,200	31,800	19,800	21,200

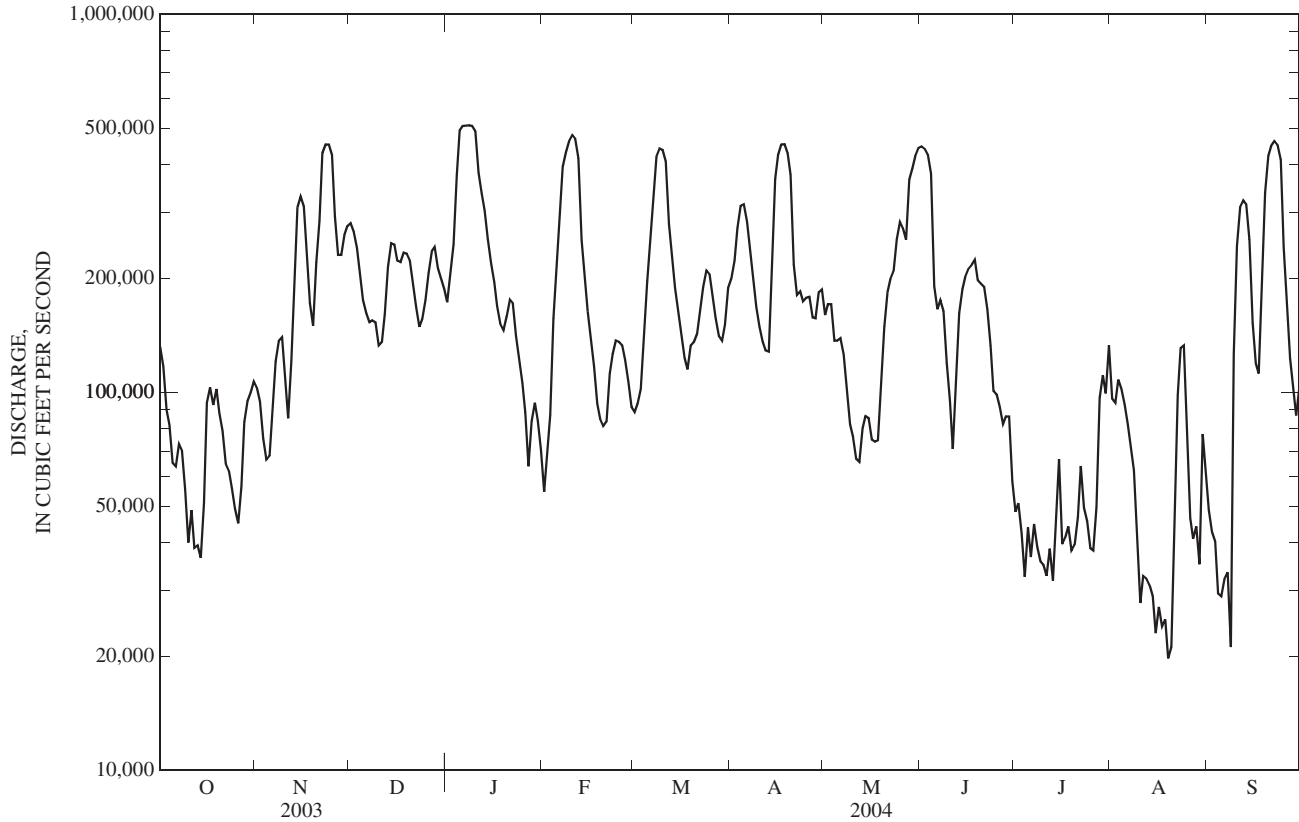
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2004, BY WATER YEAR (WY)

MEAN	47,120	85,460	138,200	146,300	175,900	206,900	180,000	142,800	95,710	58,960	45,650	44,820
MAX	144,100	230,600	288,700	289,900	291,200	338,500	292,200	370,100	219,100	109,500	146,200	193,500
(WY)	(1980)	(1986)	(1973)	(1974)	(1975)	(1997)	(1972)	(1996)	(1981)	(1972)	(1980)	(2004)
MIN	13,910	16,810	29,220	34,060	77,100	98,440	61,160	43,510	15,030	13,890	13,060	9,033
(WY)	(1992)	(1999)	(1999)	(1977)	(1992)	(1990)	(1986)	(1976)	(1999)	(1999)	(1988)	(1999)

03277200 OHIO RIVER AT MARKLAND DAM NEAR WARSAW, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1970 - 2004	
ANNUAL TOTAL	57,066,300		61,885,600			
ANNUAL MEAN	156,300		169,100		113,900	
HIGHEST ANNUAL MEAN					169,100	2004
LOWEST ANNUAL MEAN					60,450	1988
HIGHEST DAILY MEAN	453,000	Feb 27	509,000	Jan 8	579,000	Mar 6, 1997
LOWEST DAILY MEAN	26,100	Jan 28	19,800	Aug 19	3,210	Sep 3, 2002
ANNUAL SEVEN-DAY MINIMUM	35,000	Jan 24	24,200	Aug 14	7,310	Jul 1, 1988
MAXIMUM PEAK FLOW			510,000		582,000	Mar 6, 1997
MAXIMUM PEAK STAGE			48.01		60.72	Mar 6, 1997
10 PERCENT EXCEEDS	272,000		380,000		260,000	
50 PERCENT EXCEEDS	137,000		138,000		80,700	
90 PERCENT EXCEEDS	49,200		41,300		20,300	

e Estimated



03277300 NORTH FORK KENTUCKY RIVER AT WHITESBURG, KY

LOCATION.--Lat 37°07'03", long 82°49'29", Letcher County, Hydrologic Unit 05100201, on downstream side of bridge on State Highway 15 at Whitesburg, 0.6 mile downstream from Solomon Branch, and at mile 405.4

DRAINAGE AREA.--66.4 mi².

PERIOD OF RECORD.--October 1952 to September 1954 and October 1957 to September 1975 (crest-stage partial-record), October 1987 to September 1998 (gage heights only), October 1998 to current year.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 1,127.924 ft above NGVD of 1929. Prior to October 1, 1998, crest-stage gage and recording gage at same site and datum 1.0 ft higher.

REMARKS.--Records fair. Small diversions by City of Whitesburg waterworks.

COOPERATION.--Kentucky River Authority and U.S. Army Corps of Engineers, Louisville District.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 2	1645	*2,600	*8.14	May 30	1915	1,940	6.78
Mar 6	0700	2,130	7.20	May 31	0945	1,690	6.22

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

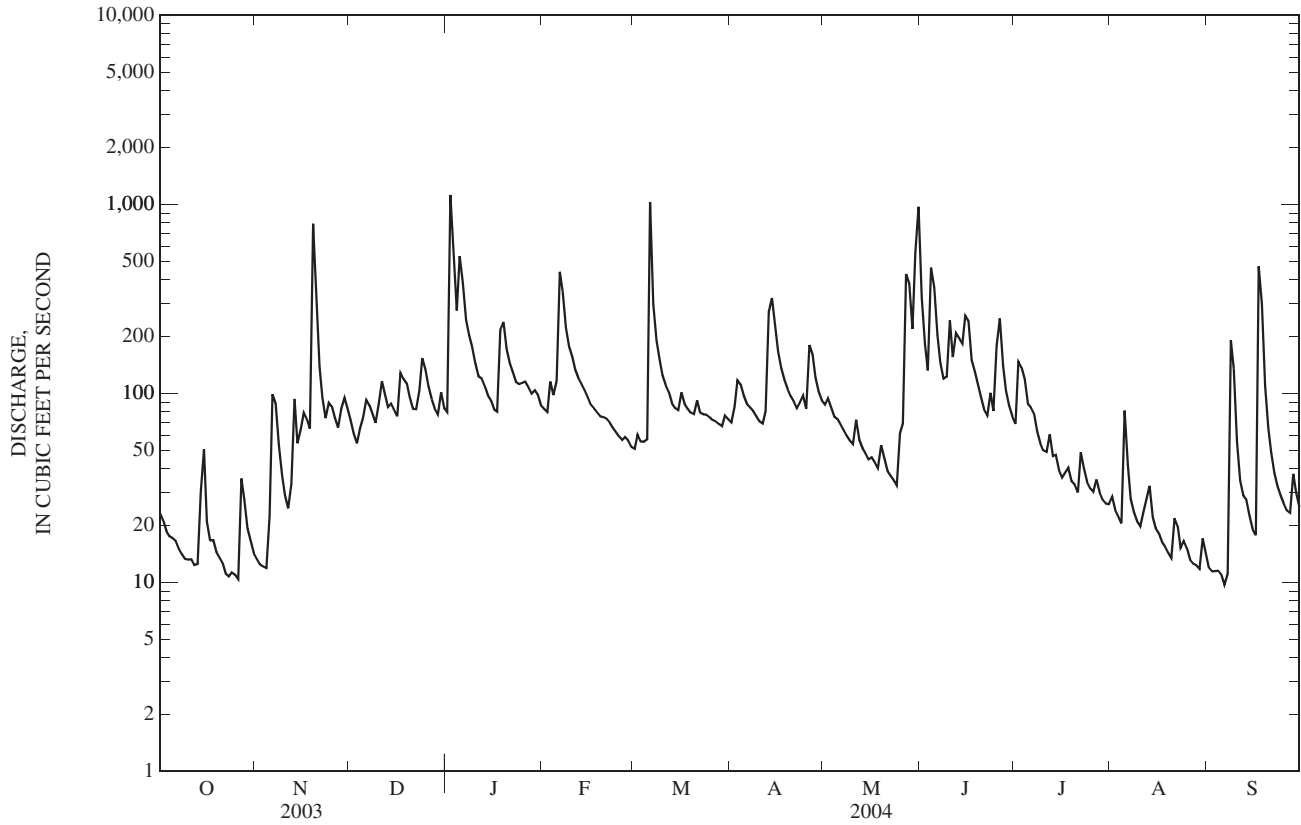
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	13	72	80	83	51	70	87	320	69	28	12
2	21	12	61	1,120	80	61	85	94	183	148	24	11
3	19	12	54	511	115	56	117	84	132	137	22	11
4	18	12	64	275	98	56	111	75	462	119	21	12
5	17	22	74	531	116	57	97	73	365	88	81	11
6	17	99	93	383	438	1,030	88	69	204	85	42	9.7
7	15	88	86	244	345	298	84	64	146	78	28	11
8	14	53	78	202	223	191	81	60	119	62	23	191
9	13	37	70	176	176	150	76	56	122	54	21	135
10	13	29	88	144	156	124	71	54	243	50	20	56
11	13	25	116	123	134	110	69	73	156	49	23	35
12	12	33	100	120	121	101	80	57	209	61	27	29
13	13	93	84	110	112	88	270	51	196	47	32	27
14	30	54	88	98	104	84	320	48	184	47	22	23
15	50	64	82	92	96	81	223	45	258	39	19	19
16	21	79	76	82	87	101	167	46	242	36	18	18
17	17	73	128	80	83	88	136	43	150	38	16	470
18	17	65	119	216	79	83	118	40	130	40	15	296
19	14	786	113	238	76	79	105	53	113	34	14	110
20	14	289	95	170	75	77	97	45	96	33	13	66
21	13	139	83	143	73	92	91	39	82	30	22	49
22	11	95	83	130	70	79	84	37	77	49	20	38
23	11	74	104	115	66	78	90	35	101	40	15	32
24	11	89	153	112	63	77	97	33	81	34	17	29
25	11	85	134	114	59	75	83	62	179	31	15	26
26	10	74	108	115	57	72	180	69	249	30	13	24
27	35	66	93	108	59	71	160	427	141	35	13	23
28	28	83	83	100	56	69	121	380	104	30	12	38
29	19	94	78	104	52	67	102	219	86	27	12	30
30	17	84	101	99	---	76	92	557	76	26	17	25
31	14	---	83	87	---	73	---	967	---	26	14	---
TOTAL	551	2,821	2,844	6,222	3,352	3,795	3,565	4,042	5,206	1,672	679	1,866.7
MEAN	17.8	94.0	91.7	201	116	122	119	130	174	53.9	21.9	62.2
MAX	50	786	153	1,120	438	1,030	320	967	462	148	81	470
MIN	10	12	54	80	52	51	69	33	76	26	12	9.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	12.7	30.9	45.5	97.3	116	112	136	94.4	73.6	56.9	28.5	27.6
MAX	17.8	94.0	91.7	201	275	164	270	134	174	126	61.4	62.2
(WY)	(2004)	(2004)	(2004)	(2004)	(2003)	(2002)	(2003)	(2003)	(2004)	(2000)	(2003)	(2004)
MIN	9.08	9.90	13.6	24.6	56.8	45.5	80.2	52.9	17.6	13.4	7.66	5.47
(WY)	(2000)	(2002)	(2000)	(2000)	(2000)	(2000)	(2001)	(1999)	(1999)	(1999)	(1999)	(1999)

03277300 NORTH FORK KENTUCKY RIVER AT WHITESBURG, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	39,213		36,615.7		68.9	
ANNUAL MEAN	107		100		45.8	
HIGHEST ANNUAL MEAN					101	2003
LOWEST ANNUAL MEAN					45.8	2000
HIGHEST DAILY MEAN	1,960	Feb 16	1,120	Jan 2	1,960	Feb 16, 2003
LOWEST DAILY MEAN	10	Oct 26	9.7	Sep 6	1.9	Oct 8, 1999
ANNUAL SEVEN-DAY MINIMUM	12	Oct 20	11	Sep 1	3.8	Sep 13, 1999
MAXIMUM PEAK FLOW			2,600	Jan 2	7,730	Jan 29, 1957
MAXIMUM PEAK STAGE			8.14	Jan 2	14.90	Jan 29, 1957
10 PERCENT EXCEEDS	200		192		134	
50 PERCENT EXCEEDS	70		76		38	
90 PERCENT EXCEEDS	20		15		8.6	



03280000 NORTH FORK KENTUCKY RIVER AT JACKSON, KY

LOCATION.--Lat 37°32'46", long 83°22'21", Breathitt County, Hydrologic Unit 05100201, on left bank at city water plant on Armory Drive at Jackson, 2.8 mi downstream from Quicksand Creek, and at mile 305.0.

DRAINAGE AREA.--1,101 mi².

PERIOD OF RECORD.--June 1928 to September 1931, December 1936 to February 1937, April 1938 to current year. Gage-height records collected at same site during periods 1904-07, 1921-31, and February to December 1934 (above 8.0 ft only). January 1935 to September 1976 are published in reports of National Weather Service.

REVISED RECORDS.--WSP 853: 1929(M). WSP 1335: 1928(M), 1929, 1931(M). WSP 1435: 1954-55. WSP 1505: 1948. WSP 1555: Drainage area.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 697.67 ft above NGVD of 1929. See WDR KY-90-1 for history of changes prior to Aug. 22, 1980.

REMARKS.--Records good. Small diversions by City of Jackson waterworks. Flow regulated by Carr Fork Lake (station 03277446) beginning January 1976.

COOPERATION.--U.S. Army Corps of Engineers, Louisville District and Kentucky River Authority.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

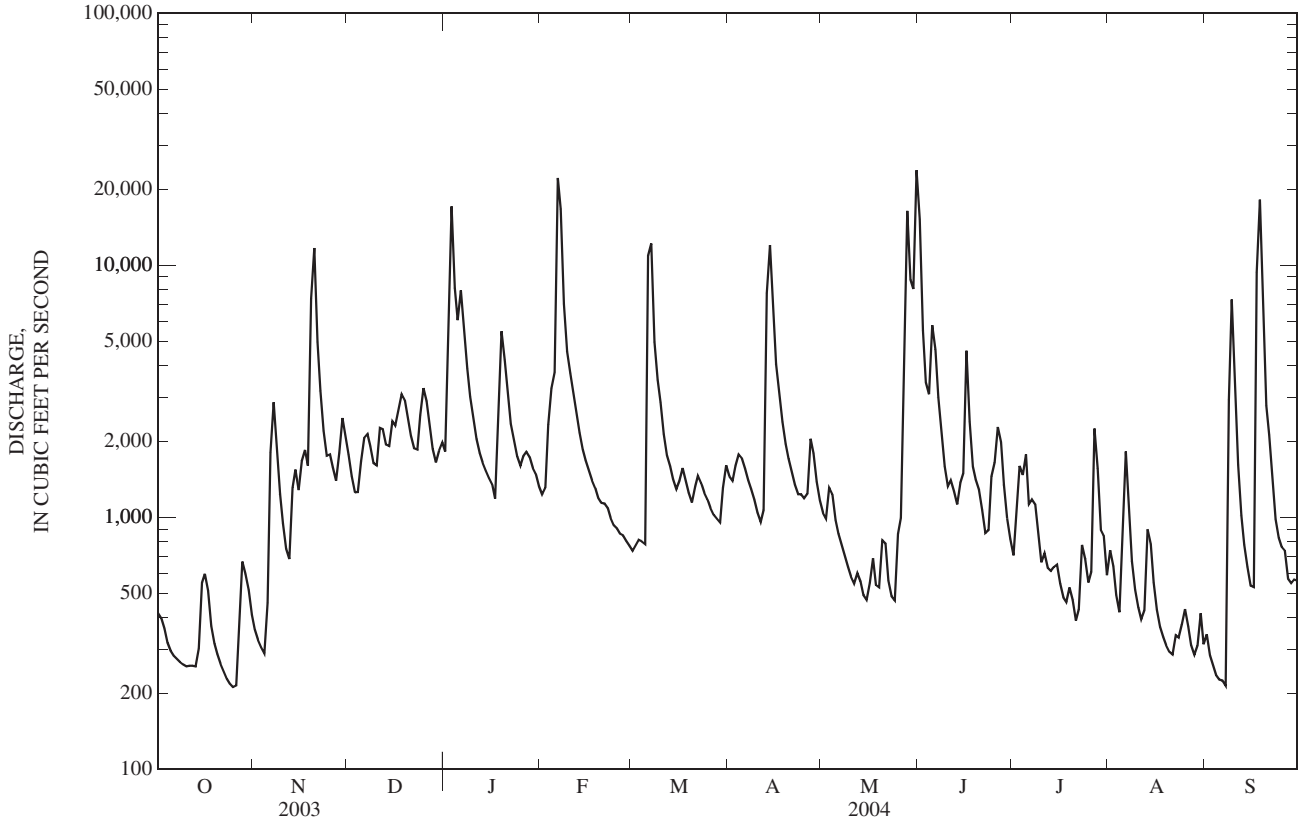
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	417	359	1,770	1,820	1,230	737	1,460	1,040	15,200	707	740	344
2	398	327	1,460	7,160	1,310	772	1,400	989	5,510	1,010	640	284
3	362	306	1,260	17,100	2,330	815	1,600	1,310	3,420	1,600	492	258
4	320	289	1,260	8,150	3,260	803	1,770	1,240	3,080	1,470	421	237
5	296	458	1,660	6,070	3,770	784	1,720	977	5,780	1,780	783	227
6	283	1,810	2,070	7,960	22,200	10,900	1,560	861	4,630	1,120	1,830	226
7	275	2,860	2,140	5,580	16,700	12,200	1,400	779	3,000	1,180	1,190	215
8	267	1,890	1,910	3,900	7,020	4,970	1,290	703	2,150	1,130	671	2,930
9	261	1,240	1,640	3,020	4,550	3,510	1,180	634	1,590	861	518	7,310
10	257	947	1,610	2,480	3,730	2,860	1,040	583	1,330	664	440	3,290
11	258	750	2,260	2,040	3,180	2,140	957	546	1,400	719	394	1,610
12	258	683	2,240	1,800	2,620	1,760	1,070	601	1,270	632	428	1,020
13	257	1,310	1,940	1,650	2,170	1,590	7,760	557	1,130	613	897	779
14	302	1,550	1,920	1,530	1,860	1,420	12,000	493	1,370	636	783	638
15	550	1,280	2,410	1,440	1,680	1,290	6,240	471	1,500	651	551	535
16	597	1,680	2,320	1,350	1,540	1,400	4,060	550	4,580	546	430	528
17	513	1,850	2,670	1,190	1,400	1,560	3,060	688	2,400	481	368	9,380
18	371	1,600	3,090	2,320	1,310	1,410	2,390	540	1,590	462	335	18,200
19	316	7,370	2,920	5,480	1,200	1,250	1,960	529	1,410	526	311	6,160
20	287	11,700	2,510	4,220	1,140	1,150	1,710	811	1,290	470	293	2,780
21	263	4,950	2,100	3,040	1,130	1,320	1,520	788	1,070	389	286	2,120
22	245	3,190	1,880	2,350	1,090	1,460	1,350	561	868	432	340	1,470
23	229	2,210	1,860	2,020	996	1,370	1,240	486	890	777	334	983
24	219	1,760	2,540	1,750	932	1,250	1,240	468	1,450	682	376	829
25	212	1,780	3,260	1,600	904	1,180	1,190	860	1,650	552	433	764
26	215	1,580	2,890	1,740	860	1,090	1,240	996	2,280	607	369	736
27	386	1,400	2,260	1,820	847	1,030	2,050	6,220	1,990	2,250	311	572
28	668	1,800	1,870	1,740	806	988	1,800	16,400	1,350	1,570	285	549
29	595	2,480	1,650	1,570	772	953	1,390	8,770	994	893	310	567
30	517	2,110	1,840	1,490	---	1,310	1,170	8,050	822	847	417	560
31	410	---	1,980	1,330	---	1,610	---	23,800	---	590	314	---
TOTAL	10,804	63,519	65,190	106,710	92,537	66,882	69,817	82,301	76,994	26,847	16,290	66,101
MEAN	349	2,117	2,103	3,442	3,191	2,157	2,327	2,655	2,566	866	525	2,203
MAX	668	11,700	3,260	17,100	22,200	12,200	12,000	23,800	15,200	2,250	1,830	18,200
MIN	212	289	1,260	1,190	772	737	957	468	822	389	285	215
CFSM	0.32	1.92	1.91	3.13	2.90	1.96	2.11	2.41	2.33	0.79	0.48	2.00
IN.	0.37	2.15	2.20	3.61	3.13	2.26	2.36	2.78	2.60	0.91	0.55	2.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2004, BY WATER YEAR (WY)

MEAN	466	876	1,535	1,958	2,627	2,601	2,368	1,882	1,136	547	438	375
MAX	4,189	3,019	4,649	5,168	6,392	7,268	5,944	7,189	4,166	1,484	945	2,203
(WY)	(1990)	(1986)	(1992)	(1979)	(1994)	(1994)	(1998)	(1984)	(1989)	(2000)	(1977)	(2004)
MIN	92.8	152	196	155	790	541	452	526	136	90.2	85.6	37.5
(WY)	(1981)	(1982)	(1981)	(1981)	(1988)	(1988)	(1986)	(2001)	(1988)	(1988)	(1988)	(1999)

03280000 NORTH FORK KENTUCKY RIVER AT JACKSON, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1977 - 2004	
ANNUAL TOTAL	772,885		743,992		1,394	
ANNUAL MEAN	2,117		2,033		477	
HIGHEST ANNUAL MEAN					2,570 1994	
LOWEST ANNUAL MEAN					477 1988	
HIGHEST DAILY MEAN	29,700	Feb 17	23,800	May 31	52,200	May 8, 1984
LOWEST DAILY MEAN	212	Oct 25	212	Oct 25	21	Sep 20, 1999
ANNUAL SEVEN-DAY MINIMUM	239	Oct 20	239	Oct 20	26	Sep 17, 1999
MAXIMUM PEAK FLOW			26,100	May 31	53,500	Jan 30, 1957
MAXIMUM PEAK STAGE			32.04	May 31	43.10	Feb 4, 1939
INSTANTANEOUS LOW FLOW					0.00	Oct 16, 1930
ANNUAL RUNOFF (CFSM)	1.92		1.85		1.27	
ANNUAL RUNOFF (INCHES)	26.11		25.14		17.20	
10 PERCENT EXCEEDS	4,270		3,950		3,130	
50 PERCENT EXCEEDS	1,220		1,260		658	
90 PERCENT EXCEEDS	318		335		131	



03280700 CUTSHIN CREEK AT WOOTON, KY

LOCATION.--Lat 37°09'54", long 83°18'29", Leslie County, Hydrologic Unit 05100202, on right bank 30 ft upstream from bridge on State Highway 80, 400 ft upstream from Poundmill Branch, 600 ft upstream from Rockhouse Branch, 0.7 mi downstream from Saw Branch, 1.0 mi southwest of Wooton, and at mile 10.7.

DRAINAGE AREA.--61.3 mi².

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

GAGE.--Water-stage recorder with telemetry. Datum of gage is 869.84 ft above NGVD of 1929. Prior to Dec. 26, 1957, nonrecording gage at same site and datum.

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

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1957 reached a stage of 19.43 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 19	0700	2,480	6.82	May 27	0630	*8,040	*13.65
Jan 2	unknown	3,200	7.86	May 30	2200	2,520	6.88
Feb 6	unknown	unknown	unknown	May 31	0815	2,340	6.59
Mar 6	unknown	5,440	10.91	Sep 8	1900	unknown	5.96
Apr 13	unknown	unknown	unknown	Sep 17	1530	6,950	12.64
May 26	2100	1,680	5.51				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	11	72	97	87	27	73	58	541	114	55	e15
2	11	10	55	e1,400	77	43	70	97	215	86	27	e13
3	8.8	9.7	49	659	218	38	84	80	182	56	19	e11
4	8.6	9.9	55	330	203	39	77	63	169	45	15	e40
5	8.6	58	64	678	253	55	72	56	437	41	200	e20
6	7.8	267	86	537	e1,640	2,290	66	50	233	50	97	e14
7	7.3	157	79	305	693	456	59	42	147	56	41	e10
8	6.3	62	72	213	305	223	59	36	151	33	27	e900
9	6.2	39	62	171	201	146	e50	33	150	25	19	e400
10	6.9	29	99	128	150	102	44	30	95	20	15	e180
11	6.3	25	147	104	115	80	43	30	87	21	14	e130
12	5.7	33	117	97	94	67	131	26	66	50	40	e110
13	5.8	73	94	89	77	58	e1,100	25	53	31	44	e92
14	15	44	121	82	67	54	e635	23	48	374	20	e80
15	35	78	125	81	62	50	342	23	99	78	14	71
16	12	115	117	70	53	63	206	29	80	39	12	66
17	8.8	101	286	68	50	54	136	24	49	46	9.3	3,020
18	8.1	79	221	405	45	49	98	20	44	55	7.9	840
19	7.1	1,420	180	414	44	45	77	25	40	28	7.1	279
20	6.6	457	131	236	44	47	67	28	36	21	7.4	150
21	6.8	175	104	167	45	71	62	19	30	17	20	97
22	8.5	100	107	134	38	62	54	20	31	36	22	71
23	8.3	67	154	107	34	59	57	34	84	42	9.7	55
24	8.2	85	387	100	34	56	55	23	48	20	62	45
25	7.6	80	270	100	32	52	51	73	55	21	37	37
26	9.7	70	167	100	31	48	219	683	97	24	e22	30
27	39	58	119	101	32	46	189	2,990	54	78	e13	28
28	26	87	93	90	29	44	114	842	41	31	e8.4	26
29	17	101	77	86	27	43	80	398	36	21	e9.4	25
30	14	89	137	88	---	79	65	628	55	17	e42	21
31	12	---	111	79	---	74	---	1,850	---	56	e23	---
TOTAL	352.0	3,989.6	3,958	7,316	4,780	4,620	4,435	8,358	3,453	1,632	959.2	6,876
MEAN	11.4	133	128	236	165	149	148	270	115	52.6	30.9	229
MAX	39	1,420	387	1,400	1,640	2,290	1,100	2,990	541	374	200	3,020
MIN	5.7	9.7	49	68	27	27	43	19	30	17	7.1	10
CFSM	0.19	2.17	2.08	3.85	2.69	2.43	2.41	4.40	1.88	0.86	0.50	3.74
IN.	0.21	2.42	2.40	4.44	2.90	2.80	2.69	5.07	2.10	0.99	0.58	4.17

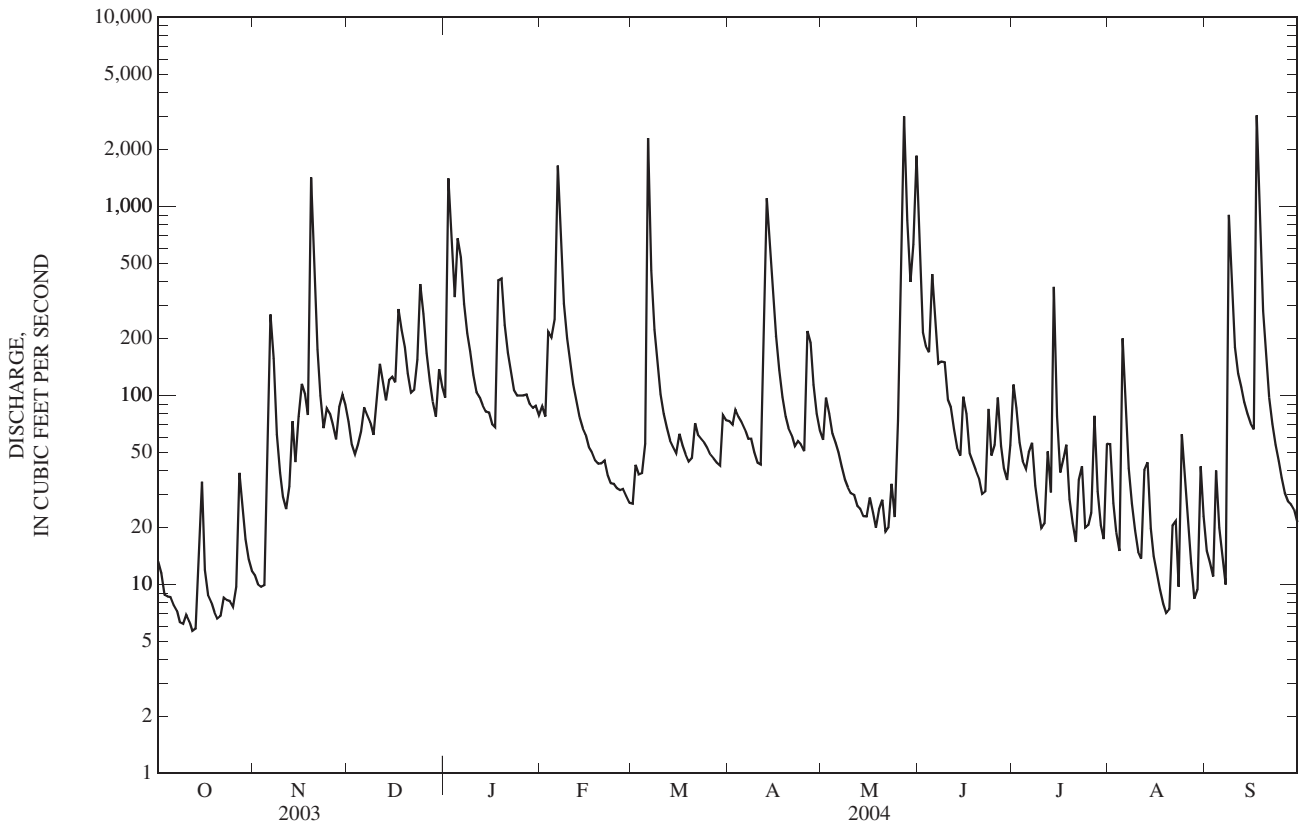
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2004, BY WATER YEAR (WY)

MEAN	25.0	59.8	105	145	171	196	166	116	59.4	32.5	24.0	21.9
MAX	287	309	359	597	425	620	471	449	423	144	107	229
(WY)	(1990)	(1978)	(1973)	(1974)	(2003)	(1975)	(1998)	(1983)	(1989)	(1958)	(1966)	(2004)
MIN	0.26	5.05	3.30	6.97	27.0	21.4	16.6	14.0	3.17	2.17	1.16	0.73
(WY)	(1964)	(2001)	(1966)	(1981)	(1968)	(1988)	(1963)	(1964)	(1988)	(1970)	(1988)	(1969)

03280700 CUTSHIN CREEK AT WOOTON, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1958 - 2004	
ANNUAL TOTAL	50,530.5		50,728.8		93.1	
ANNUAL MEAN	138		139		212	
HIGHEST ANNUAL MEAN					27.6	1974
LOWEST ANNUAL MEAN					4,890	May 7, 1984
HIGHEST DAILY MEAN	4,410	Feb 16	3,020	Sep 17	0.00	Sep 29, 1959
LOWEST DAILY MEAN	4.9	Sep 19	5.7	Oct 12	0.01	Sep 11, 1964
ANNUAL SEVEN-DAY MINIMUM	6.4	Oct 7	6.4	Oct 7	14,200	Mar 12, 1963
MAXIMUM PEAK FLOW			8,040	May 27	16.23	Mar 12, 1963
MAXIMUM PEAK STAGE			13.65	May 27	0.00	Sep 29, 1959
INSTANTANEOUS LOW FLOW					2.26	1.52
ANNUAL RUNOFF (CFSM)	2.26		2.26		20.63	
ANNUAL RUNOFF (INCHES)	30.66		30.78		201	
10 PERCENT EXCEEDS	261		257		33	
50 PERCENT EXCEEDS	60		56		3.0	
90 PERCENT EXCEEDS	8.6		12			

e Estimated



03281000 MIDDLE FORK KENTUCKY RIVER AT TALLEGA, KY

LOCATION.--Lat 37°33'18", long 83°35'38", Lee County, Hydrologic Unit 05100202, on left bank 100 ft downstream of bridge on State Highway 708, 150 ft upstream from Lynam Creek, 0.5 mi southwest of Tallega, 8.3 mi upstream from confluence with North Fork, and at mile 8.3.

DRAINAGE AREA.--537 mi².

PERIOD OF RECORD.--October 1930 to March 1932, October 1939 to current year.

REVISED RECORDS.--WSP 1113: 1931, 1940. WSP 1385: 1931-32, 1948, drainage area. WSP 1505: 1946(M), 1951(M).

GAGE.--Water-stage recorder with telemetry. Datum of gage is 642.13 ft above NGVD of 1929. Prior to Feb. 6, 1940, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow regulated by Buckhorn Lake beginning December 1960 (station 03280800).

COOPERATION.--U.S.Army Corps of Engineers, Louisville District, and Kentucky River Authority.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	267	393	1,180	1,220	605	273	507	593	5,690	250	243	228
2	207	385	945	3,420	554	341	485	659	4,700	409	297	227
3	197	379	656	4,930	977	388	765	863	3,850	511	275	230
4	171	376	750	4,110	1,410	424	779	756	4,910	431	263	140
5	117	768	836	4,310	2,350	438	752	596	3,990	424	232	48
6	112	890	992	4,190	8,030	3,480	633	541	4,230	426	601	47
7	108	1,520	1,010	3,540	6,230	3,180	575	526	4,210	515	714	108
8	106	1,920	956	3,150	3,550	4,010	560	455	4,080	572	540	1,820
9	105	986	895	3,000	2,900	3,990	541	326	3,960	457	340	3,060
10	104	896	829	3,330	3,070	3,840	524	298	3,850	276	166	3,860
11	103	518	941	3,190	3,300	3,620	407	222	3,760	238	80	3,780
12	103	620	1,200	3,010	3,940	2,940	373	178	3,880	202	118	2,160
13	102	1,030	1,050	2,690	3,880	2,160	1,660	211	3,770	180	321	956
14	111	1,410	1,020	1,350	3,950	1,430	4,060	210	3,010	246	418	711
15	262	1,110	1,140	901	3,820	715	4,610	210	836	681	291	403
16	307	1,450	1,230	576	3,820	704	3,790	231	620	366	168	685
17	329	1,610	1,370	549	3,730	849	1,970	387	1,030	315	110	4,940
18	521	1,550	1,680	1,090	2,210	648	1,340	299	493	173	107	6,670
19	560	2,600	2,090	2,050	523	710	1,270	230	399	120	99	3,560
20	449	4,040	1,720	2,540	654	561	1,020	e250	352	141	60	3,970
21	389	3,920	1,170	3,010	562	612	552	262	242	165	53	3,990
22	332	4,160	1,100	1,900	481	744	451	257	123	209	54	3,860
23	298	3,950	883	1,010	492	735	436	214	103	297	61	3,760
24	236	3,220	1,290	906	415	660	438	164	484	261	126	3,650
25	205	1,710	1,790	709	400	624	323	328	780	169	244	3,510
26	153	1,130	2,370	822	362	611	433	394	976	342	245	2,330
27	164	740	1,690	771	382	525	344	2,950	532	1,920	233	1,620
28	263	1,390	1,200	831	383	484	613	5,180	606	1,190	205	1,110
29	337	1,700	1,060	736	302	531	701	4,320	394	505	153	735
30	665	1,350	1,180	729	---	637	561	5,050	249	382	123	401
31	438	---	1,100	736	---	579	---	9,250	---	234	159	---
TOTAL	7,821	47,721	37,323	65,306	63,282	41,443	31,473	36,410	66,109	12,607	7,099	62,569
MEAN	252	1,591	1,204	2,107	2,182	1,337	1,049	1,175	2,204	407	229	2,086
MAX	665	4,160	2,370	4,930	8,030	4,010	4,610	9,250	5,690	1,920	714	6,670
MIN	102	376	656	549	302	273	323	164	103	120	53	47
CFSM	0.47	2.96	2.24	3.92	4.06	2.49	1.95	2.19	4.10	0.76	0.43	3.88
IN.	0.54	3.31	2.59	4.52	4.38	2.87	2.18	2.52	4.58	0.87	0.49	4.33

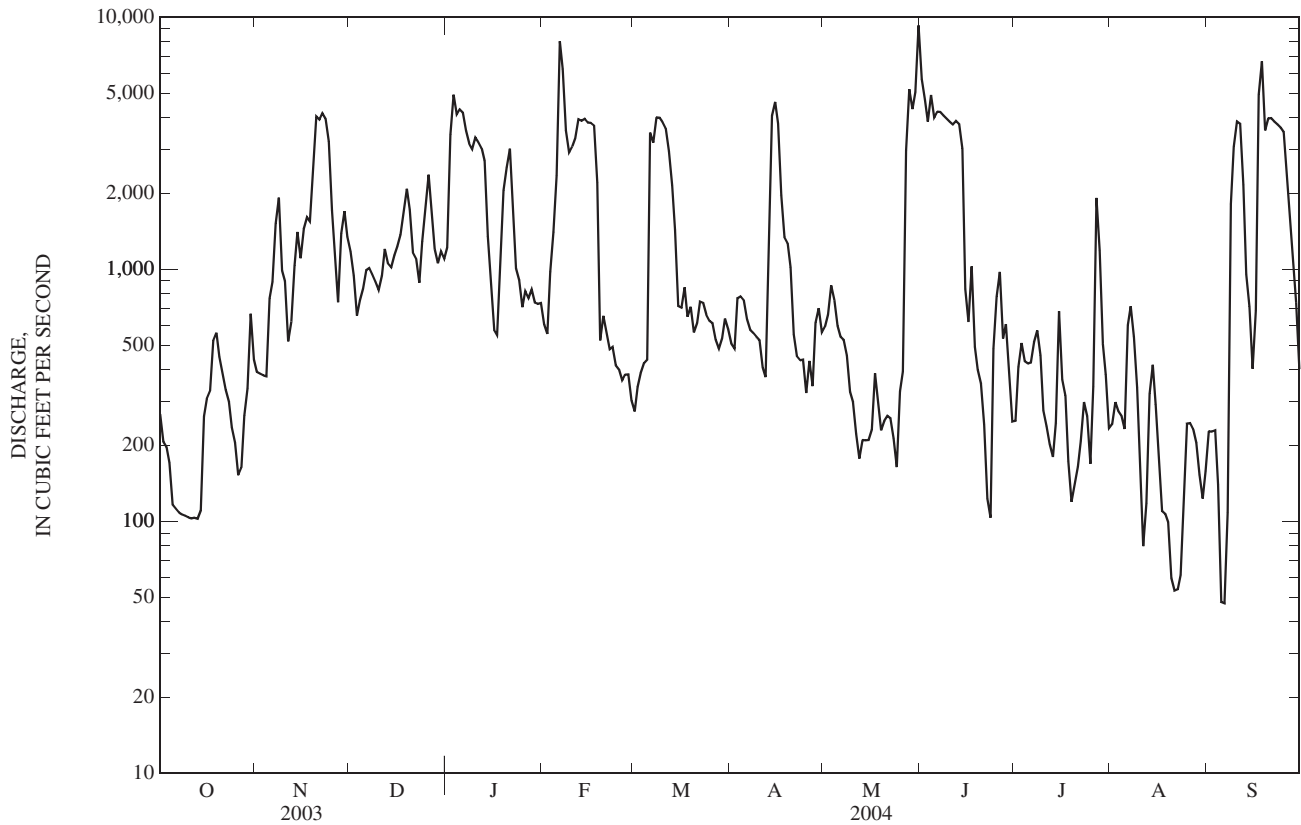
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2004, BY WATER YEAR (WY)

MEAN	303	580	921	1,289	1,484	1,668	1,200	944	538	232	181	217
MAX	2,225	1,715	2,826	3,320	3,634	3,672	3,280	2,762	2,599	687	623	2,086
(WY)	(1990)	(1978)	(1973)	(1974)	(1994)	(1994)	(1994)	(1971)	(1989)	(1992)	(1992)	(2004)
MIN	47.5	23.8	45.5	56.8	270	241	98.7	57.9	49.1	43.6	33.9	45.9
(WY)	(1989)	(2002)	(1966)	(1981)	(1968)	(1988)	(1986)	(1986)	(1988)	(1988)	(2002)	(1987)

03281000 MIDDLE FORK KENTUCKY RIVER AT TALLEGA, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1961 - 2004	
ANNUAL TOTAL	467,990		479,163		793	
ANNUAL MEAN	1,282		1,309		1,492	
HIGHEST ANNUAL MEAN					1994	
LOWEST ANNUAL MEAN					267	
HIGHEST DAILY MEAN	9,100	Feb 17	9,250	May 31	10,300	Feb 27, 1962
LOWEST DAILY MEAN	41	Aug 29	47	Sep 6	3.7	Nov 15, 2001
ANNUAL SEVEN-DAY MINIMUM	78	Aug 23	78	Aug 17	4.4	Nov 10, 2001
MAXIMUM PEAK FLOW			10,200	May 31	52,700	Jan 30, 1957
MAXIMUM PEAK STAGE			26.05	May 31	43.33	Jan 30, 1957
INSTANTANEOUS LOW FLOW					0.10	Oct 12, 1953
ANNUAL RUNOFF (CFSM)	2.39		2.44		1.48	
ANNUAL RUNOFF (INCHES)	32.42		33.19		20.07	
10 PERCENT EXCEEDS	4,020		3,850		2,560	
50 PERCENT EXCEEDS	655		635		304	
90 PERCENT EXCEEDS	149		167		63	

e Estimated



03281100 GOOSE CREEK AT MANCHESTER, KY

LOCATION.--Lat 37°09'07", long 83°45'37", Clay County, Hydrologic Unit 05100203, on left bank on downstream side of Second Street bridge at Manchester, 0.9 mi upstream from Little Goose Creek, and at mile 21.7.

DRAINAGE AREA.--163 mi².

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder with telemetry and crest-stage gages. Datum of gage is 819.37 ft above NGVD of 1929. Prior to September 15, 1975, nonrecording gage at same site and datum.

REMARKS.--Records good except for those estimated, which are poor. Slight diversions by City of Manchester.

COOPERATION.--Kentucky River Authority.

EXTREMES OUTSIDE PERIOD OF RECORD.---Flood of June 28, 1947, Jan. 29, 1957, and Mar. 12, 1963, reached a stage of 40.6 ft, discharge, 38,000 ft³/s, 37.3 ft, discharge, 29,800 ft³/s, and 33.5 ft, discharge, 21,500 ft³/s, respectively, present site.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 2	2200	5,960	20.61	May 27	1000	6,030	20.73
Feb 6	1300	*9,380	*25.84	Sep 17	1900	5,650	20.09
Mar 6	1400	5,690	20.16				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

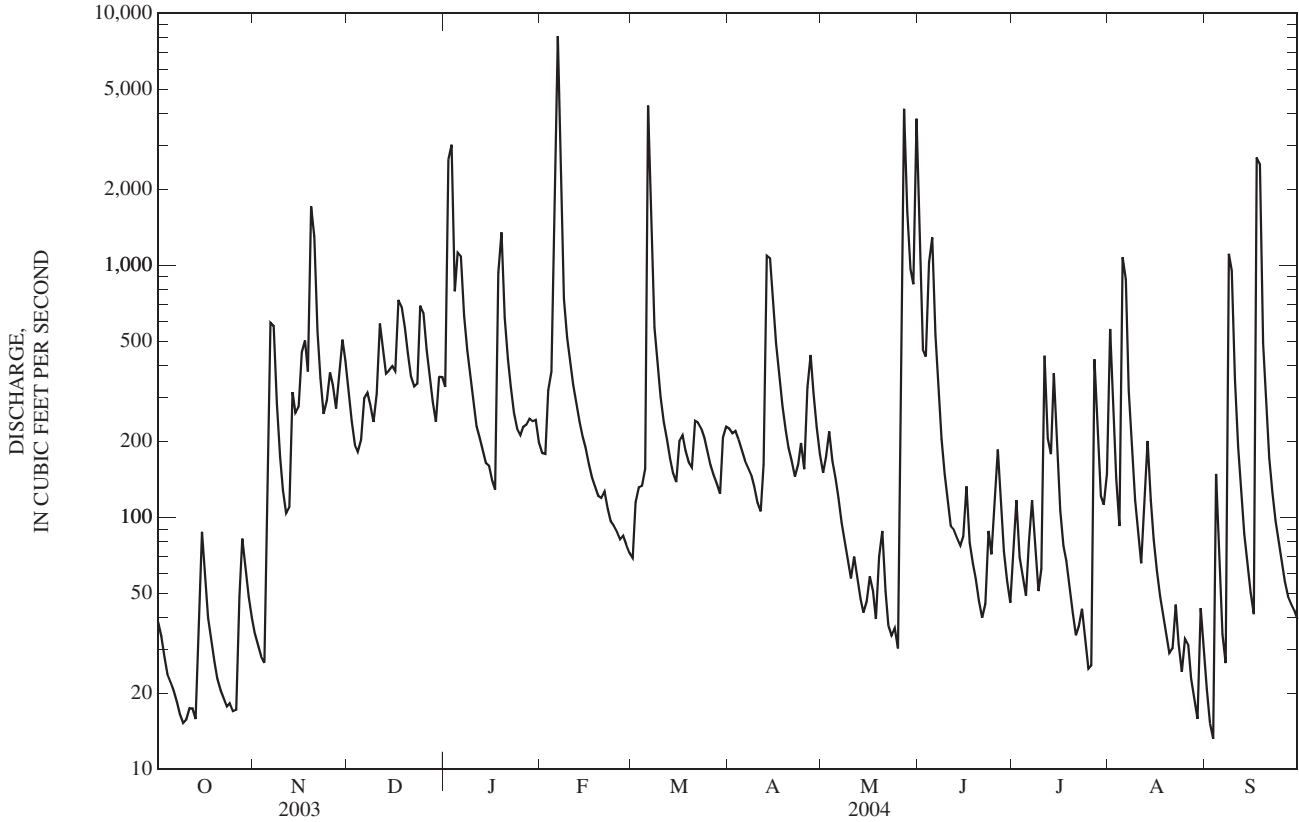
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	35	324	329	180	69	225	151	1,250	73	558	21
2	34	31	241	2,630	179	115	215	174	463	117	252	15
3	28	28	194	3,010	320	132	220	219	435	70	142	13
4	24	27	182	788	379	134	203	168	1,030	59	92	148
5	22	73	202	1,120	1,740	156	185	143	1,290	49	1,070	62
6	20	593	297	1,090	8,110	4,300	168	119	530	79	879	34
7	18	575	311	633	2,680	1,220	157	95	316	117	319	26
8	17	283	279	460	738	566	148	79	206	78	180	1,110
9	15	175	239	377	518	401	132	67	148	51	117	954
10	16	128	309	293	416	302	114	57	116	63	85	352
11	17	104	586	230	336	239	106	70	92	438	66	190
12	17	110	479	206	283	204	162	58	89	206	111	124
13	16	314	372	185	239	171	1,090	47	83	178	201	86
14	44	260	383	165	208	150	1,070	42	77	372	117	65
15	88	275	398	160	188	138	693	46	84	186	82	50
16	59	453	381	140	163	201	489	58	133	107	62	41
17	40	503	728	129	144	211	362	51	79	77	49	2,680
18	33	379	685	933	132	184	277	40	66	67	40	2,520
19	27	1,710	567	1,350	122	165	222	70	57	54	34	490
20	23	1,300	451	620	119	158	188	88	47	42	29	265
21	21	545	363	426	126	241	167	51	40	34	30	173
22	19	358	331	330	108	238	145	37	45	37	45	126
23	18	257	340	259	97	225	162	34	88	43	32	97
24	18	291	692	225	93	206	198	36	71	32	24	78
25	17	376	648	212	88	182	155	30	112	25	33	66
26	17	335	463	228	82	161	328	386	185	26	31	56
27	49	271	358	233	85	147	441	4,180	111	424	23	49
28	82	367	288	246	78	136	311	1,630	73	246	19	45
29	62	507	239	241	72	124	227	968	56	121	16	43
30	49	419	361	243	---	207	178	841	46	112	44	39
31	40	---	361	198	---	229	---	3,810	---	149	31	---
TOTAL	988	11,082	12,052	17,689	18,023	11,312	8,738	13,845	7,418	3,732	4,813	10,018
MEAN	31.9	369	389	571	621	365	291	447	247	120	155	334
MAX	88	1,710	728	3,010	8,110	4,300	1,090	4,180	1,290	438	1,070	2,680
MIN	15	27	182	129	72	69	106	30	40	25	16	13
CFSM	0.20	2.27	2.39	3.50	3.81	2.24	1.79	2.74	1.52	0.74	0.95	2.05
IN.	0.23	2.53	2.75	4.04	4.11	2.58	1.99	3.16	1.69	0.85	1.10	2.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2004, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)
MEAN	76.9	188	353	438	493	514	432	298	164	92.5	53.2	52.0
MAX	600	646	1,229	1,205	1,196	1,665	1,308	1,158	975	381	178	334
(WY)	(1990)	(1978)	(1991)	(1974)	(1972)	(1975)	(1998)	(1984)	(1989)	(1965)	(1977)	(2004)
MIN	2.13	11.4	28.3	22.9	70.5	111	50.8	29.3	6.48	2.03	3.72	2.11
(WY)	(1970)	(1988)	(1966)	(1981)	(1968)	(1969)	(1986)	(1965)	(1988)	(1966)	(1988)	(1965)

03281100 GOOSE CREEK AT MANCHESTER, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1965 - 2004	
ANNUAL TOTAL	133,403.5		119,710		262	
ANNUAL MEAN	365		327		107	
HIGHEST ANNUAL MEAN					456 1994	
LOWEST ANNUAL MEAN					107 1988	
HIGHEST DAILY MEAN	9,680	Feb 16	8,110	Feb 6	13,700	May 7, 1984
LOWEST DAILY MEAN	9.5	Aug 28	13	Sep 3	0.00	Oct 8, 1980
ANNUAL SEVEN-DAY MINIMUM	13	Aug 23	17	Oct 7	0.16	Oct 4, 1980
MAXIMUM PEAK FLOW			9,380	Feb 6	19,200	May 7, 1984
MAXIMUM PEAK STAGE			25.84	Feb 6	32.85	May 7, 1984
INSTANTANEOUS LOW FLOW					0.00	Oct 8, 1980
ANNUAL RUNOFF (CFSM)	2.24		2.01		1.61	
ANNUAL RUNOFF (INCHES)	30.45		27.32		21.82	
10 PERCENT EXCEEDS	656		638		559	
50 PERCENT EXCEEDS	153		158		89	
90 PERCENT EXCEEDS	24		31		6.2	



03281500 SOUTH FORK KENTUCKY RIVER AT BOONEVILLE, KY

LOCATION.--Lat 37°28'47", long 83°40'31", Owsley County, Hydrologic Unit 05100203, on right bank 100 ft downstream from Buck Creek, 350 ft downstream from bridge on State Highway 30 at Booneville, 0.3 mi downstream from Meadow Creek, and at mile 11.7.

DRAINAGE AREA.--722 mi².

PERIOD OF RECORD.--March 1925 to September 1931, October 1939 to current year. Monthly discharge only for October 1939, published in WSP 1305.

REVISED RECORDS.--WSP 893: 1929(M). WSP 1335: WSP 1555: Drainage area.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 642.49 ft above NGVD of 1929. See WDR KY-92-1 for history of changes prior to Nov. 27, 1929. Nov. 28, 1929 to July 26, 2000, recording gage 500 ft downstream at present site and datum.

REMARKS.--Records good except for those estimated, which are poor. Diversions by City of Booneville.

COOPERATION.--U.S. Army Corps of Engineers, Louisville District and Kentucky River Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 14,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 3	1100	19,500	28.64	May 28	0400	21,400	30.13
Feb 7	0300	*29,500	*35.66	May 31	2200	18,800	28.09
Mar 7	0200	16,600	26.15	Sep 18	0700	19,700	28.79

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	250	250	2,000	1,700	929	352	e1,400	691	12,900	340	880	201
2	215	217	1,530	6,910	956	400	e1,350	763	3,970	2,750	1,200	161
3	193	194	1,240	17,800	1,420	523	e1,500	1,040	1,930	1,870	704	138
4	167	178	1,150	7,180	2,000	537	e1,640	881	5,290	898	487	147
5	148	566	1,210	5,220	3,510	550	e1,500	743	7,510	855	773	205
6	136	2,050	1,430	6,520	23,100	10,300	e1,000	661	3,750	959	3,770	239
7	127	3,160	1,610	4,030	26,400	12,100	771	575	1,970	1,570	1,750	169
8	117	1,930	1,520	2,660	7,850	3,730	730	470	1,320	1,170	912	3,700
9	110	1,230	1,350	2,080	3,120	2,140	689	388	932	748	613	6,790
10	100	895	1,340	1,700	2,250	1,550	633	329	739	581	445	2,640
11	93	699	2,210	1,370	1,760	1,190	590	291	632	1,610	341	1,280
12	90	600	2,260	1,200	1,420	978	650	265	555	1,930	341	792
13	93	1,960	1,860	1,080	1,200	825	4,000	255	500	1,320	578	601
14	122	1,850	1,780	975	996	746	7,420	226	516	1,010	649	443
15	743	1,570	2,080	906	872	703	4,560	208	606	1,020	422	333
16	652	2,190	1,980	834	791	749	2,840	477	571	658	313	272
17	408	2,420	2,730	733	724	928	1,930	1,040	610	597	255	8,100
18	285	2,130	3,560	2,000	679	840	1,430	567	463	472	221	17,400
19	227	5,390	2,970	6,420	640	791	1,110	396	417	356	194	5,230
20	189	8,840	2,380	4,140	617	749	900	551	351	299	174	1,810
21	161	4,110	1,900	2,700	610	923	802	591	290	255	160	1,130
22	142	2,290	1,660	1,810	600	1,080	753	376	255	460	154	762
23	129	1,640	1,610	1,470	528	996	700	407	303	494	162	591
24	120	1,450	2,770	1,260	486	922	750	338	530	361	227	470
25	114	1,710	3,660	1,160	465	825	704	363	1,510	281	228	386
26	112	1,650	2,690	1,220	431	e768	970	542	2,090	945	176	328
27	161	1,470	2,000	1,200	410	e743	1,590	12,200	1,180	3,890	161	286
28	336	2,450	1,620	1,210	400	e726	1,340	18,300	721	2,190	149	257
29	456	3,650	1,380	1,150	374	e712	962	7,890	534	1,060	142	236
30	373	2,690	1,600	1,170	---	e1,270	776	4,570	398	820	250	218
31	301	---	1,880	1,040	---	e1,500	---	15,600	---	621	288	---
TOTAL	6,870	61,429	60,960	90,848	85,538	51,146	45,990	71,994	53,343	32,390	17,119	55,315
MEAN	222	2,048	1,966	2,931	2,950	1,650	1,533	2,322	1,778	1,045	552	1,844
MAX	743	8,840	3,660	17,800	26,400	12,100	7,420	18,300	12,900	3,890	3,770	17,400
MIN	90	178	1,150	733	374	352	590	208	255	255	142	138
CFSM	0.31	2.84	2.72	4.06	4.09	2.29	2.12	3.22	2.46	1.45	0.76	2.55
IN.	0.35	3.17	3.14	4.68	4.41	2.64	2.37	3.71	2.75	1.67	0.88	2.85

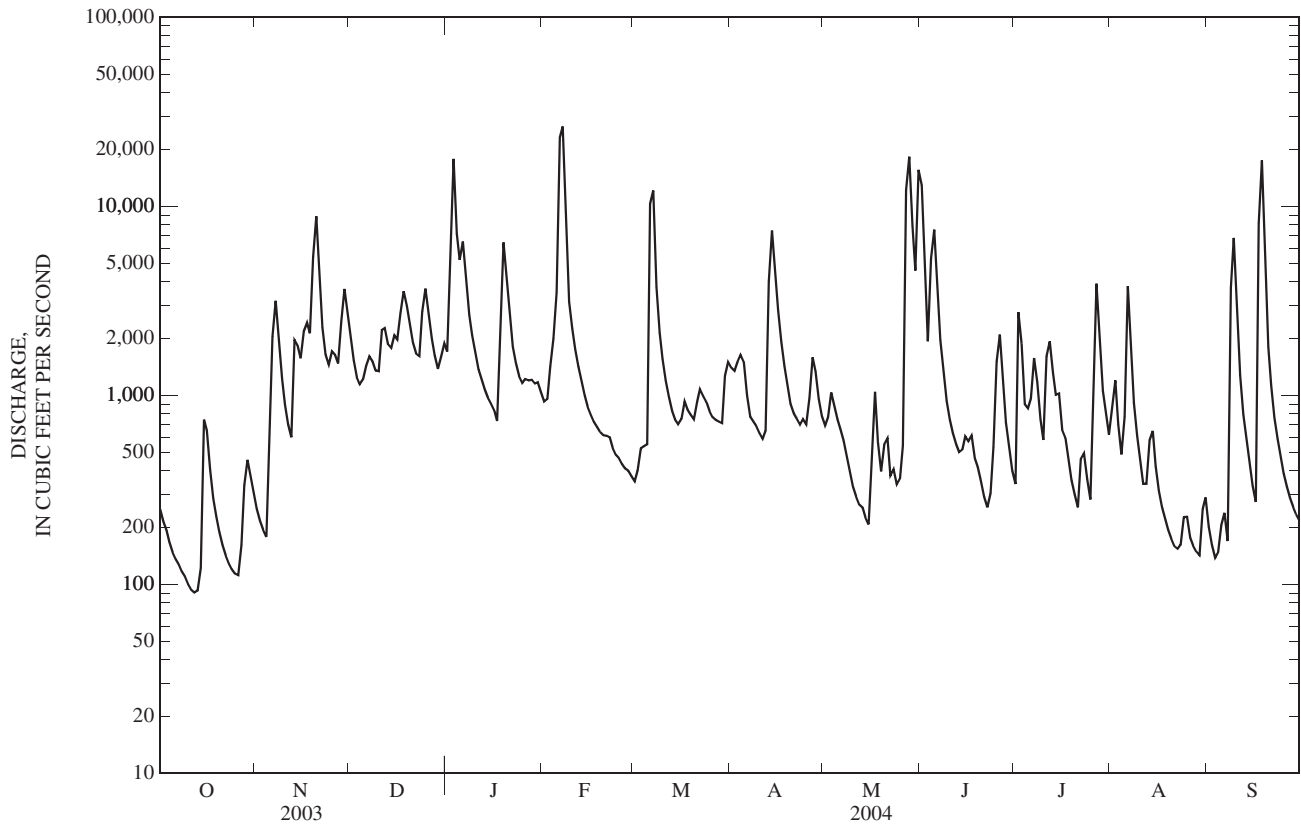
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2004, BY WATER YEAR (WY)

MEAN	210	659	1,332	1,812	2,135	2,270	1,722	1,130	635	404	266	177
MAX	2,843	2,380	4,935	5,461	5,905	7,400	4,703	5,130	2,950	2,666	1,700	1,844
(WY)	(1990)	(1974)	(1991)	(1974)	(1956)	(1975)	(1998)	(1984)	(2003)	(1941)	(1942)	(2004)
MIN	0.08	0.32	12.1	104	178	568	222	119	36.7	3.67	4.56	0.68
(WY)	(1954)	(1954)	(1954)	(1981)	(1941)	(1988)	(1963)	(1941)	(1966)	(1944)	(1930)	(1930)

03281500 SOUTH FORK KENTUCKY RIVER AT BOONEVILLE, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1925 - 2004	
ANNUAL TOTAL	644,412		632,942		1,061	
ANNUAL MEAN	1,766		1,729		1,808	
HIGHEST ANNUAL MEAN					1994	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	32,400	Feb 17	26,400	Feb 7	51,300	Jan 30, 1957
LOWEST DAILY MEAN	90	Oct 12	90	Oct 12	0.00	Oct 11, 1953
ANNUAL SEVEN-DAY MINIMUM	104	Oct 8	104	Oct 8	0.00	Oct 11, 1953
MAXIMUM PEAK FLOW			29,500	Feb 7	66,100	Jan 30, 1957
MAXIMUM PEAK STAGE			35.66	Feb 7	43.40	Jan 30, 1957
INSTANTANEOUS LOW FLOW					0.00	Oct 11, 1953
ANNUAL RUNOFF (CFSM)	2.45		2.40		1.47	
ANNUAL RUNOFF (INCHES)	33.20		32.61		19.97	
10 PERCENT EXCEEDS	3,630		3,710		2,420	
50 PERCENT EXCEEDS	820		825		361	
90 PERCENT EXCEEDS	187		204		27	

e Estimated



03282000 KENTUCKY RIVER AT LOCK 14, AT HEIDELBERG, KY

LOCATION.--Lat 37°33'19", long 83°46'06", Lee County, Hydrologic Unit 05100204, on right bank 200 ft upstream from lock 14 at Heidelberg, 0.3 mi upstream from Sturgeon Creek, and at mile 249.2.

DRAINAGE AREA.--2,657 mi².

PERIOD OF RECORD.--October 1925 to September 1931, December 1936 to February 1937, July 1938 to current year. Gage-height records collected in this vicinity since 1902 are published in reports of National Weather Service.

REVISED RECORDS.--WSP 1385: 1926-27, 1928(M), 1929, 1931(M), 1937, 1939(M), drainage area.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 625.77 ft NGVD of 1929, 625.70 ft Ohio River Datum, 629.00 ft Kentucky River Datum. Prior to September 2, 1939, nonrecording gage at lock 14 at same datum.

REMARKS.--Records fair except for those below 150 ft³/s and for those estimated, which are poor. Flow regulated by Buckhorn Lake beginning December 1960 (station 03280800), and by Carr Fork Lake beginning January 1976 (station 03277446). Small diversions by City of Lexington waterworks.

COOPERATION.--U.S. Army Corps of Engineers, Louisville District and Kentucky River Authority.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,170	1,250	5,970	5,460	3,050	1,480	4,020	2,790	46,400	1,550	1,720	886
2	970	1,150	4,690	12,800	2,930	1,550	3,580	3,100	24,600	2,740	2,390	830
3	887	1,090	3,700	36,100	4,390	1,700	3,740	3,730	11,500	4,500	1,860	778
4	826	1,050	3,370	28,900	7,240	1,840	4,010	3,760	13,800	3,120	1,440	761
5	715	2,600	4,080	18,000	9,280	1,850	3,950	e3,370	16,900	3,370	1,350	603
6	652	5,080	5,000	19,700	45,300	17,500	3,630	e2,750	14,800	3,120	4,830	626
7	635	6,610	5,480	16,300	58,300	31,200	3,230	e2,300	10,600	3,180	4,520	603
8	618	6,790	5,190	11,700	32,400	19,100	2,980	e1,900	8,340	3,180	2,780	8,230
9	600	4,290	4,550	9,070	13,600	11,300	2,760	e1,620	7,020	2,550	1,850	18,500
10	566	3,070	4,140	8,030	10,500	9,140	2,510	e1,350	6,250	1,960	1,350	13,200
11	546	2,360	5,550	7,120	9,090	7,900	2,230	e1,180	5,740	2,330	1,030	8,030
12	533	2,020	6,420	6,440	8,610	6,530	2,170	1,140	5,780	3,350	968	5,160
13	530	3,460	5,770	5,860	7,870	5,330	7,970	1,190	5,500	2,400	1,310	3,140
14	547	4,940	5,280	4,590	7,310	4,280	24,300	1,120	5,050	2,030	2,030	2,180
15	1,020	4,340	6,110	3,720	6,830	3,240	21,000	1,030	3,410	2,210	1,680	1,680
16	1,530	4,960	6,450	3,120	6,510	2,980	13,600	1,180	4,670	1,930	1,220	1,550
17	1,420	5,940	7,090	2,780	6,190	3,500	8,920	2,120	6,090	1,770	950	16,300
18	1,320	5,770	8,840	4,380	4,970	3,470	6,600	1,820	3,610	1,500	814	42,300
19	1,270	9,250	8,740	13,900	3,090	3,140	5,370	1,440	2,580	1,180	737	26,700
20	1,130	24,000	7,790	12,900	2,520	2,810	4,500	1,570	2,280	1,100	654	11,100
21	957	18,400	6,240	9,850	2,480	2,960	3,680	1,940	1,990	1,030	594	7,950
22	868	10,900	5,410	7,270	2,350	3,510	3,420	1,610	1,610	1,180	561	6,810
23	765	8,500	4,910	5,460	2,200	3,530	3,430	1,320	1,440	1,520	591	5,800
24	711	7,070	6,710	4,540	2,020	3,300	3,310	1,180	1,860	1,570	725	5,150
25	625	6,070	8,990	3,900	1,890	3,020	3,020	1,480	3,580	1,350	976	4,780
26	601	5,080	8,840	3,910	1,800	2,810	3,800	1,970	6,440	2,430	983	3,890
27	651	4,180	7,260	4,150	1,710	2,590	4,500	13,600	4,600	8,920	876	2,860
28	1,060	5,600	5,640	4,160	1,700	2,380	4,910	37,700	3,450	6,890	775	2,270
29	1,500	8,940	4,720	3,900	1,600	2,310	4,110	30,300	2,510	3,680	764	1,780
30	1,700	7,450	4,910	3,690	---	2,900	3,260	19,500	1,810	2,470	884	1,460
31	1,520	---	5,600	3,430	---	4,260	---	45,400	---	2,020	966	---
TOTAL	28,443	182,210	183,440	285,130	267,730	173,410	168,510	196,460	234,210	82,130	44,178	205,907
MEAN	918	6,074	5,917	9,198	9,232	5,594	5,617	6,337	7,807	2,649	1,425	6,864
MAX	1,700	24,000	8,990	36,100	58,300	31,200	24,300	45,400	46,400	8,920	4,830	42,300
MIN	530	1,050	3,370	2,780	1,600	1,480	2,170	1,030	1,440	1,030	561	603

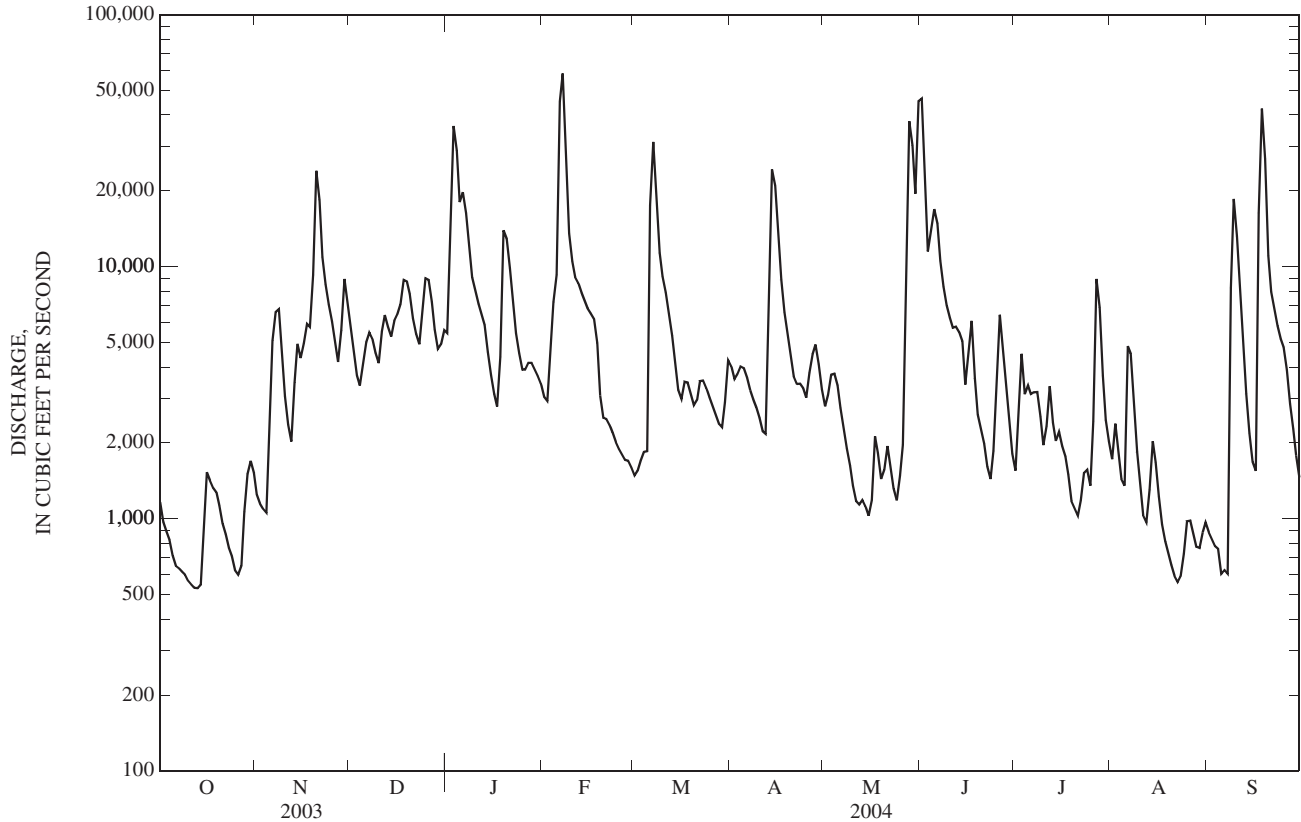
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2004, BY WATER YEAR (WY)

MEAN	1,256	2,624	4,659	5,796	7,419	7,440	6,281	5,012	3,011	1,303	1,036	995
MAX	10,380	7,006	14,850	14,010	17,660	18,260	15,260	16,010	10,630	3,320	3,006	6,864
(WY)	(1990)	(1978)	(1991)	(1994)	(2003)	(1994)	(1998)	(1984)	(2003)	(1992)	(1977)	(2004)
MIN	232	263	582	362	2,345	1,791	855	910	247	206	154	70.1
(WY)	(2000)	(2002)	(1981)	(1981)	(1988)	(1988)	(1986)	(1986)	(1988)	(1988)	(1988)	(1999)

03282000 KENTUCKY RIVER AT LOCK 14, AT HEIDELBERG, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1977 - 2004	
ANNUAL TOTAL	2,283,482		2,051,758		3,884	
ANNUAL MEAN	6,256		5,606		6,973	
HIGHEST ANNUAL MEAN					1,461	
LOWEST ANNUAL MEAN					85,900	
HIGHEST DAILY MEAN	74,000	Feb 17	58,300	Feb 7	120,000	May 8, 1984
LOWEST DAILY MEAN	386	Aug 29	530	Oct 13	45	Jul 10, 1988
ANNUAL SEVEN-DAY MINIMUM	492	Aug 24	563	Oct 8	51	Sep 11, 1999
MAXIMUM PEAK FLOW			60,000	Feb 7	120,000	Feb 4, 1939
MAXIMUM PEAK STAGE			23.83	Feb 7	35.60	Feb 4, 1939
INSTANTANEOUS LOW FLOW					4.0	Oct 20, 1930
10 PERCENT EXCEEDS	13,800		11,600		9,780	
50 PERCENT EXCEEDS	3,000		3,370		1,650	
90 PERCENT EXCEEDS	777		931		284	

e Estimated



03282040 STURGEON CREEK AT CRESSMONT, KY

LOCATION.--Lat 37°30'02", long 83°48'37", Lee County, Hydrologic Unit 05100204, on right bank 30 ft downstream of bridge on State Highway 597, 0.2 mi southeast of Cressmont, 0.2 mi upstream from Elkhorn Branch, and 0.5 mi downstream from Granny Dismal Creek.

DRAINAGE AREA.--77.3 mi².

PERIOD OF RECORD.--October 1992 to current year.

GAGE.--Water-stage recorder with telemetry and crest-stage gages. Datum of gage is 704.53 ft above NGVD of 1929.

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

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 2	1345	4,110	*11.14	Jun 4	1200	3,810	10.73
Feb 6	unknown	*10,100	16.18	Jul 27	0115	2,570	9.08
Mar 6	0500	3,120	9.81	Sep 8	1300	2,580	9.10
May 31	0615	3,580	10.43	Sep 17	1000	11,800	17.30

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e19	e11	e133	195	80	11	167	95	482	42	97	5.2
2	e18	e9.8	e93	2,320	75	38	124	276	310	211	59	4.0
3	e17	e9.2	e78	959	351	28	95	299	172	152	42	5.4
4	e14	e8.5	e105	425	311	22	73	203	2,610	94	34	12
5	e12	e423	e252	635	1,030	34	58	154	721	159	185	12
6	e11	e341	e266	443	3,000	1,590	48	114	e350	241	141	6.6
7	e10	e111	e205	296	749	448	42	86	e230	139	79	5.2
8	e8.2	e66	e146	230	388	259	38	64	133	120	51	1,300
9	e6.8	e44	e129	194	276	189	31	48	103	71	37	470
10	e5.4	e33	160	148	220	127	25	39	73	55	30	187
11	e5.6	e27	240	102	177	88	22	34	54	128	25	108
12	e5.4	e225	200	90	140	73	90	30	44	77	55	87
13	e5.8	e311	175	78	e102	56	922	26	38	101	78	61
14	e5.6	e103	222	66	e85	48	518	23	164	64	39	41
15	e10	e82	255	62	e76	43	322	21	445	41	29	32
16	e14	e70	234	50	e59	70	227	63	210	30	23	28
17	e13	e66	353	45	e51	68	171	56	123	51	19	5,530
18	e10	e62	311	437	e43	56	132	32	85	47	17	815
19	e8.6	e547	279	450	e40	50	106	26	59	28	15	305
20	e6.6	e392	226	270	38	47	90	30	43	21	12	180
21	e6.0	e178	191	201	37	106	80	23	33	17	13	120
22	e5.6	e111	181	165	30	89	122	19	29	140	14	84
23	e5.4	e80	220	111	24	80	124	16	32	113	12	61
24	e5.1	e86	654	94	23	73	113	15	31	47	16	46
25	e4.6	e99	392	85	21	62	110	18	452	58	21	38
26	e4.4	e89	270	117	18	53	421	34	442	590	16	33
27	e8.8	e76	211	113	16	47	306	912	186	1,360	12	29
28	e19	e272	174	90	13	42	202	820	109	307	9.5	27
29	e17	e380	139	84	12	37	148	312	72	162	7.9	24
30	e15	e207	262	85	---	213	115	379	50	101	10	22
31	e13	---	221	68	---	210	---	1,970	---	96	7.4	---
TOTAL	309.9	4,519.5	6,977	8,708	7,485	4,357	5,042	6,237	7,885	4,863	1,205.8	9,678.4
MEAN	10.0	151	225	281	258	141	168	201	263	157	38.9	323
MAX	19	547	654	2,320	3,000	1,590	922	1,970	2,610	1,360	185	5,530
MIN	4.4	8.5	78	45	12	11	22	15	29	17	7.4	4.0
CFSM	0.13	1.95	2.91	3.63	3.34	1.82	2.17	2.60	3.40	2.03	0.50	4.17
IN.	0.15	2.17	3.36	4.19	3.60	2.10	2.43	3.00	3.79	2.34	0.58	4.66

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2004, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	29.5	74.2	119	204	227	240	191	152	116	37.2	32.5	41.2
MAX	108	246	225	403	544	540	441	345	304	157	219	323
(WY)	(1997)	(1997)	(2004)	(1994)	(2003)	(1994)	(1998)	(1995)	(1997)	(2004)	(2003)	(2004)
MIN	1.22	2.70	16.8	30.3	76.4	65.8	49.6	22.4	2.20	1.22	0.11	0.30
(WY)	(2001)	(2001)	(2000)	(2000)	(2002)	(2003)	(1997)	(2001)	(1999)	(1999)	(1999)	(1999)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1993 - 2004	
ANNUAL TOTAL	62,341.5		67,267.6		121	
ANNUAL MEAN	171		184		195	
HIGHEST ANNUAL MEAN					1994	
LOWEST ANNUAL MEAN					2000	
HIGHEST DAILY MEAN	5,010	Feb 16	5,530	Sep 17	5,530	Sep 17, 2004
LOWEST DAILY MEAN	1.5	Aug 29	4.0	Sep 2	0.00	Aug 18, 1999
ANNUAL SEVEN-DAY MINIMUM	4.0	Aug 24	5.4	Oct 20	0.00	Aug 18, 1999
MAXIMUM PEAK FLOW			11,800	Sep 17	11,800	Sep 17, 2004
MAXIMUM PEAK STAGE			17.30	Sep 17	17.30	Sep 17, 2004
INSTANTANEOUS LOW FLOW					0.00	Aug 18, 1999
ANNUAL RUNOFF (CFSM)	2.21		2.38		1.57	
ANNUAL RUNOFF (INCHES)	30.00		32.37		21.34	
10 PERCENT EXCEEDS	346		382		276	
50 PERCENT EXCEEDS	72		78		42	
90 PERCENT EXCEEDS	9.9		12		2.0	

e Estimated

