

03400798 MARTINS FORK LAKE AT MARTINS FORK DAM NEAR SMITH, KY

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1979 to current water year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1979 to current water year.

pH: October 1979 to current year.

WATER TEMPERATURE: October 1979 to currentwater year.

DISSOLVED OXYGEN: October 1979 to current water year.

INSTRUMENTATION.--Water-quality monitor since October 1979.

REMARKS.--Four submersible pumps are located on Martins Fork Dam, at four different elevations referenced to sea level. Pump 1 is located near the bottom of the lake, at an elevation of 1,272 ft; pump 2 is at an elevation of 1,285 ft; pump 3 at an elevation of 1,298 ft; and pump 4 at an elevation of 1,308 ft, occasional operation. Each lake level is sampled once every four hours, or six times per day. A maximum and minimum value for pH and a maximum, minimum, and mean value for temperature, specific conductance, and dissolved oxygen are determined for each level. The monitor was shut down Nov. 10 to Mar. 30.

SPECIFIC CONDUCTANCE: records rated good

ph: records rated good.

WATER TEMPERATURE: records rated excellent.

DISSOLVED OXYGEN: records rated good.

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

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 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	167	165	166	143	137	140	---	---	---	---	---	---
2	---	---	---	142	138	140	---	---	---	---	---	---
3	---	---	---	142	139	140	---	---	---	---	---	---
4	---	---	---	142	138	140	---	---	---	---	---	---
5	---	---	---	142	138	140	---	---	---	---	---	---
6	---	---	---	144	141	142	---	---	---	---	---	---
7	---	---	---	144	143	143	---	---	---	---	---	---
8	---	---	---	145	143	144	---	---	---	---	---	---
9	---	---	---	155	146	150	---	---	---	---	---	---
10	---	---	---	153	149	151	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	148	145	146	---	---	---	---	---	---	---	---	---
26	147	146	147	---	---	---	---	---	---	---	---	---
27	146	145	145	---	---	---	---	---	---	---	---	---
28	145	144	144	---	---	---	---	---	---	---	---	---
29	152	142	150	---	---	---	---	---	---	---	---	---
30	147	137	140	---	---	---	---	---	---	---	---	---
31	143	136	137	---	---	---	---	---	---	---	---	---
MONTH	167	136	147	155	137	143	---	---	---	---	---	---

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	105	104	105	116	115	115
2	---	---	---	---	---	---	112	105	108	117	115	116
3	---	---	---	---	---	---	117	108	112	116	111	114
4	---	---	---	---	---	---	116	107	111	113	109	111
5	---	---	---	---	---	---	111	107	109	113	109	111
6	---	---	---	---	---	---	114	108	111	112	108	111
7	---	---	---	---	---	---	129	115	121	110	108	109
8	---	---	---	---	---	---	127	122	124	111	105	107
9	---	---	---	---	---	---	126	124	123	106	104	105
10	---	---	---	---	---	---	122	119	120	106	102	103
11	---	---	---	---	---	---	119	117	118	106	103	104
12	---	---	---	---	---	---	117	115	116	103	102	103
13	---	---	---	---	---	---	116	115	115	104	103	103
14	---	---	---	---	---	---	115	114	115	107	105	106
15	---	---	---	---	---	---	124	106	114	109	107	108
16	---	---	---	---	---	---	116	104	109	112	109	110
17	---	---	---	---	---	---	111	106	108	114	112	113
18	---	---	---	---	---	---	109	106	108	115	114	114
19	---	---	---	---	---	---	111	112	112	116	115	116
20	---	---	---	---	---	---	112	111	112	117	116	117
21	---	---	---	---	---	---	111	110	111	119	117	118
22	---	---	---	---	---	---	112	110	111	119	118	119
23	---	---	---	---	---	---	112	110	111	120	119	120
24	---	---	---	---	---	---	112	111	111	121	120	121
25	---	---	---	---	---	---	112	111	112	123	120	122
26	---	---	---	---	---	---	113	113	113	126	124	124
27	---	---	---	---	---	---	114	113	114	126	125	125
28	---	---	---	---	---	---	114	113	114	126	125	126
29	---	---	---	---	---	---	114	114	114	126	125	126
30	---	---	---	104	102	103	115	114	114	127	126	126
31	---	---	---	105	103	104	---	---	---	127	124	126
MONTH	---	---	---	105	102	104	129	104	113	127	102	114
JUNE			JULY			AUGUST			SEPTEMBER			
1	119	102	109	138	137	138	168	166	167	183	178	180
2	114	109	112	138	136	137	169	167	168	183	177	179
3	110	106	107	139	136	137	171	166	168	182	177	179
4	112	106	108	140	139	140	170	168	169	184	177	180
5	113	108	111	142	139	140	170	168	169	180	176	179
6	114	112	113	143	141	142	170	168	168	181	174	177
7	112	108	109	145	143	144	170	168	169	185	176	178
8	109	107	108	147	145	146	169	168	168	181	177	179
9	111	109	110	149	147	148	171	168	169	181	176	178
10	114	111	112	151	149	150	171	167	168	183	177	180
11	115	114	114	152	149	150	174	168	171	186	179	183
12	116	114	115	153	150	152	170	168	169	187	180	183
13	118	116	117	154	152	153	169	168	169	188	183	186
14	120	118	119	154	152	153	171	166	168	189	186	187
15	121	120	121	157	153	154	171	168	168	191	186	189
16	123	121	122	156	154	155	172	169	171	191	184	188
17	126	125	125	159	156	157	175	172	174	193	186	189
18	126	126	126	158	156	157	177	170	174	188	184	187
19	128	127	127	159	156	158	175	172	174	179	101	125
20	129	128	129	161	158	159	175	172	173	---	---	---
21	130	129	130	161	158	159	177	172	174	---	---	---
22	131	130	131	162	158	160	174	172	173	---	---	---
23	133	131	132	162	160	161	179	173	175	---	---	---
24	133	132	132	163	161	162	179	173	176	99	98	99
25	133	133	133	165	162	163	178	173	176	100	99	99
26	135	133	134	166	163	164	178	173	176	102	100	101
27	136	135	136	165	163	164	179	174	176	103	102	102
28	137	136	137	166	165	165	181	174	177	103	103	103
29	138	135	136	169	165	167	183	172	176	103	102	102
30	137	136	137	168	165	166	178	174	177	103	102	102
31	---	---	---	168	166	167	178	176	177	---	---	---
MONTH	138	102	122	169	136	154	183	166	172	193	98	158
YEAR	193	98	139									

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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
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	23.2	22.8	23.1	16.3	16.2	16.2	---	---	---	---	---	---
2	---	---	---	16.4	16.2	16.2	---	---	---	---	---	---
3	---	---	---	16.3	16.1	16.2	---	---	---	---	---	---
4	---	---	---	16.3	16.1	16.2	---	---	---	---	---	---
5	---	---	---	16.5	16.2	16.3	---	---	---	---	---	---
6	---	---	---	16.4	16.2	16.3	---	---	---	---	---	---
7	---	---	---	16.6	16.2	16.4	---	---	---	---	---	---
8	---	---	---	16.5	16.3	16.4	---	---	---	---	---	---
9	---	---	---	16.3	16.0	16.1	---	---	---	---	---	---
10	---	---	---	16.0	15.9	16.0	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	17.2	17.0	17.1	---	---	---	---	---	---	---	---	---
26	16.9	16.8	16.9	---	---	---	---	---	---	---	---	---
27	17.3	16.8	17.1	---	---	---	---	---	---	---	---	---
28	17.1	16.9	17.0	---	---	---	---	---	---	---	---	---
29	17.1	16.7	16.9	---	---	---	---	---	---	---	---	---
30	16.9	16.3	16.6	---	---	---	---	---	---	---	---	---
31	17.1	16.2	16.4	---	---	---	---	---	---	---	---	---
MONTH	23.2	16.2	17.6	16.6	15.9	16.2	---	---	---	---	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	11.9	9.9	10.9	14.2	12.5	13.0
2	---	---	---	---	---	---	12.2	10.8	11.4	14.6	12.8	13.4
3	---	---	---	---	---	---	11.9	10.9	11.5	15.2	13.7	14.4
4	---	---	---	---	---	---	11.3	10.5	11.0	15.0	14.0	14.5
5	---	---	---	---	---	---	11.4	10.7	11.0	15.4	13.8	14.6
6	---	---	---	---	---	---	10.8	10.8	10.8	14.7	14.0	14.3
7	---	---	---	---	---	---	10.7	10.5	10.6	14.7	14.2	14.5
8	---	---	---	---	---	---	10.6	10.3	10.4	14.7	14.3	14.5
9	---	---	---	---	---	---	10.8	10.3	10.4	14.9	14.4	14.7
10	---	---	---	---	---	---	10.6	10.3	10.4	16.2	14.6	15.0
11	---	---	---	---	---	---	10.8	10.3	10.5	15.3	14.5	15.0
12	---	---	---	---	---	---	10.4	10.3	10.4	15.7	15.1	15.3
13	---	---	---	---	---	---	11.3	10.3	10.6	16.2	15.5	15.9
14	---	---	---	---	---	---	11.0	10.4	10.6	16.5	15.5	16.0
15	---	---	---	---	---	---	10.9	10.5	10.8	17.8	16.3	16.6
16	---	---	---	---	---	---	11.1	10.7	10.9	17.5	16.4	16.9
17	---	---	---	---	---	---	11.3	10.6	10.9	17.4	16.3	16.8
18	---	---	---	---	---	---	11.3	10.8	11.0	17.1	16.3	16.4
19	---	---	---	---	---	---	11.5	10.9	11.2	16.9	16.4	16.5
20	---	---	---	---	---	---	11.8	11.1	11.3	17.1	16.3	16.6
21	---	---	---	---	---	---	11.6	11.0	11.3	17.3	16.3	16.8
22	---	---	---	---	---	---	11.9	11.2	11.4	17.2	16.8	17.0
23	---	---	---	---	---	---	11.5	11.2	11.3	17.8	17.0	17.3
24	---	---	---	---	---	---	11.4	11.2	11.4	17.8	17.0	17.4
25	---	---	---	---	---	---	11.4	11.2	11.3	17.7	17.2	17.4
26	---	---	---	---	---	---	11.6	11.2	11.4	18.1	16.9	17.4
27	---	---	---	---	---	---	12.6	11.3	11.7	18.3	16.8	17.5
28	---	---	---	---	---	---	11.7	11.4	11.6	18.4	17.3	17.8
29	---	---	---	---	---	---	12.3	11.5	11.9	18.5	17.8	18.1
30	---	---	---	11.5	10.2	10.4	13.7	12.2	12.6	19.2	18.0	18.5
31	---	---	---	11.1	9.8	10.6	---	---	---	20.4	17.7	19.2
MONTH	---	---	---	11.5	9.8	10.5	13.7	9.9	11.1	20.4	12.5	16.1

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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
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	23.4	22.0	23.0	16.9	16.5	16.8	---	---	---	---	---	---
2	---	---	---	17.6	16.6	17.2	---	---	---	---	---	---
3	---	---	---	17.6	16.8	17.3	---	---	---	---	---	---
4	---	---	---	18.8	17.0	17.6	---	---	---	---	---	---
5	---	---	---	18.5	16.9	17.6	---	---	---	---	---	---
6	---	---	---	17.9	16.9	17.4	---	---	---	---	---	---
7	---	---	---	17.8	17.0	17.4	---	---	---	---	---	---
8	---	---	---	17.1	16.6	16.8	---	---	---	---	---	---
9	---	---	---	17.1	16.2	16.5	---	---	---	---	---	---
10	---	---	---	16.2	16.0	16.1	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	18.2	17.2	17.6	---	---	---	---	---	---	---	---	---
26	17.2	17.0	17.0	---	---	---	---	---	---	---	---	---
27	17.3	16.8	17.1	---	---	---	---	---	---	---	---	---
28	17.4	17.0	17.2	---	---	---	---	---	---	---	---	---
29	17.5	16.9	17.2	---	---	---	---	---	---	---	---	---
30	18.2	16.6	17.1	---	---	---	---	---	---	---	---	---
31	17.6	16.4	16.9	---	---	---	---	---	---	---	---	---
MONTH	23.4	16.4	17.9	18.8	16.0	17.1	---	---	---	---	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	14.5	13.9	14.2	16.9	16.1	16.3
2	---	---	---	---	---	---	13.7	13.0	13.3	19.6	15.2	16.8
3	---	---	---	---	---	---	13.7	12.4	13.0	17.6	16.3	17.2
4	---	---	---	---	---	---	13.2	12.7	12.9	18.6	16.8	17.3
5	---	---	---	---	---	---	13.2	11.2	12.0	18.1	16.8	17.2
6	---	---	---	---	---	---	14.9	10.8	12.2	18.7	16.8	17.4
7	---	---	---	---	---	---	16.1	11.9	13.8	17.7	16.3	17.2
8	---	---	---	---	---	---	16.3	13.5	14.6	18.3	17.1	17.6
9	---	---	---	---	---	---	16.0	11.6	13.9	18.3	17.3	17.8
10	---	---	---	---	---	---	16.2	13.9	14.8	19.2	17.6	18.2
11	---	---	---	---	---	---	15.2	14.2	14.9	20.8	18.0	18.9
12	---	---	---	---	---	---	13.9	13.4	13.6	19.6	18.4	18.8
13	---	---	---	---	---	---	14.3	12.8	13.9	19.8	18.4	19.2
14	---	---	---	---	---	---	14.1	11.2	12.0	20.1	19.3	19.8
15	---	---	---	---	---	---	12.2	11.1	11.8	23.5	18.9	20.8
16	---	---	---	---	---	---	12.1	11.4	11.6	21.7	20.9	21.1
17	---	---	---	---	---	---	12.1	11.2	11.7	23.1	20.7	21.9
18	---	---	---	---	---	---	13.7	11.1	12.1	22.3	20.9	21.4
19	---	---	---	---	---	---	13.2	11.5	12.4	22.3	21.1	21.7
20	---	---	---	---	---	---	15.0	11.6	13.2	24.6	20.2	21.9
21	---	---	---	---	---	---	18.0	12.0	15.1	22.9	21.7	22.2
22	---	---	---	---	---	---	18.5	12.0	15.1	23.3	21.4	22.5
23	---	---	---	---	---	---	18.0	13.0	15.0	25.9	22.6	24.0
24	---	---	---	---	---	---	15.8	14.3	15.1	25.1	22.1	23.5
25	---	---	---	---	---	---	18.0	13.3	16.2	26.3	22.6	24.2
26	---	---	---	---	---	---	16.7	13.6	15.2	25.9	21.9	23.8
27	---	---	---	---	---	---	18.9	13.7	15.9	25.6	23.0	24.1
28	---	---	---	---	---	---	16.4	14.4	15.7	24.7	23.3	23.8
29	---	---	---	---	---	---	16.4	14.7	15.4	24.1	23.1	23.5
30	---	---	---	17.9	17.0	17.3	16.7	15.1	15.9	24.7	23.5	23.8
31	---	---	---	16.2	14.8	15.2	---	---	---	24.0	21.5	22.8
MONTH	---	---	---	17.9	14.8	16.2	18.9	10.8	13.9	26.3	15.2	20.5

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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	23.6	22.5	23.3	17.3	16.6	16.9	---	---	---	---	---	---
2	---	---	---	17.6	16.8	17.2	---	---	---	---	---	---
3	---	---	---	17.6	16.9	17.4	---	---	---	---	---	---
4	---	---	---	18.6	17.3	17.6	---	---	---	---	---	---
5	---	---	---	18.4	17.0	17.6	---	---	---	---	---	---
6	---	---	---	17.9	17.1	17.5	---	---	---	---	---	---
7	---	---	---	17.9	17.0	17.4	---	---	---	---	---	---
8	---	---	---	17.3	16.7	17.0	---	---	---	---	---	---
9	---	---	---	17.1	16.3	16.6	---	---	---	---	---	---
10	---	---	---	16.3	16.1	16.2	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	18.0	15.8	17.0	---	---	---	---	---	---	---	---	---
26	17.2	15.2	16.7	---	---	---	---	---	---	---	---	---
27	17.3	16.6	16.9	---	---	---	---	---	---	---	---	---
28	17.4	17.0	17.2	---	---	---	---	---	---	---	---	---
29	17.5	17.0	17.2	---	---	---	---	---	---	---	---	---
30	18.1	16.7	17.2	---	---	---	---	---	---	---	---	---
31	17.6	16.5	16.9	---	---	---	---	---	---	---	---	---
MONTH	23.6	15.2	17.8	18.6	16.1	17.1	---	---	---	---	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	---	---	20.0	18.9	19.4	
2	---	---	---	---	---	---	---	---	19.8	19.1	19.6	
3	---	---	---	---	---	---	---	---	18.2	17.5	17.8	
4	---	---	---	---	---	---	---	---	19.0	17.0	17.8	
5	---	---	---	---	---	---	---	---	19.8	17.6	18.6	
6	---	---	---	---	---	---	---	---	21.2	18.3	19.4	
7	---	---	---	---	---	---	---	---	22.7	19.7	20.9	
8	---	---	---	---	---	---	---	---	23.7	20.2	21.7	
9	---	---	---	---	---	---	---	---	24.8	21.5	22.8	
10	---	---	---	---	---	---	---	---	24.6	21.8	23.3	
11	---	---	---	---	---	---	---	---	25.0	22.8	23.6	
12	---	---	---	---	---	---	---	---	25.1	22.9	24.3	
13	---	---	---	---	---	---	---	---	24.5	23.4	24.0	
14	---	---	---	---	---	---	---	---	24.2	23.5	23.9	
15	---	---	---	---	---	---	---	---	24.0	23.1	23.7	
16	---	---	---	---	---	---	---	---	24.4	23.1	23.6	
17	---	---	---	---	---	---	---	---	25.2	22.9	23.7	
18	---	---	---	---	---	---	---	---	24.7	23.6	24.2	
19	---	---	---	---	---	---	---	---	24.8	23.7	24.2	
20	---	---	---	---	---	---	---	---	25.5	23.5	24.5	
21	---	---	---	---	---	---	---	---	26.3	24.8	25.4	
22	---	---	---	---	---	---	---	---	26.6	25.2	25.9	
23	---	---	---	---	---	---	---	---	26.9	25.0	26.0	
24	---	---	---	---	---	---	---	---	26.5	25.2	25.9	
25	---	---	---	---	---	---	---	---	26.8	25.7	26.2	
26	---	---	---	---	---	---	---	---	26.4	25.8	26.0	
27	---	---	---	---	---	---	---	---	26.0	25.1	25.5	
28	---	---	---	---	---	---	---	---	25.5	25.1	25.3	
29	---	---	---	---	---	---	---	---	25.5	24.7	25.0	
30	---	---	---	---	---	---	19.6	18.0	19.0	25.7	24.8	25.2
31	---	---	---	---	---	---	---	---	---	25.0	24.5	24.7
MONTH	---	---	---	---	---	---	19.6	18.0	19.0	26.9	17.0	23.3

03400798 MARTINS FORK LAKE AT MARTINS FORK DAM NEAR SMITH, 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	1.2	0.9	1.0	7.1	6.7	6.8	---	---	---	---	---	---
2	---	---	---	7.0	6.7	6.9	---	---	---	---	---	---
3	---	---	---	6.7	6.3	6.4	---	---	---	---	---	---
4	---	---	---	6.3	5.8	6.0	---	---	---	---	---	---
5	---	---	---	6.1	5.4	5.8	---	---	---	---	---	---
6	---	---	---	5.6	5.1	5.4	---	---	---	---	---	---
7	---	---	---	5.4	4.9	5.2	---	---	---	---	---	---
8	---	---	---	5.9	5.0	5.4	---	---	---	---	---	---
9	---	---	---	7.5	5.1	6.5	---	---	---	---	---	---
10	---	---	---	8.0	7.6	7.8	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	7.2	6.6	7.0	---	---	---	---	---	---	---	---	---
26	7.0	6.2	6.6	---	---	---	---	---	---	---	---	---
27	6.7	6.0	6.2	---	---	---	---	---	---	---	---	---
28	7.4	6.2	7.1	---	---	---	---	---	---	---	---	---
29	6.9	6.6	6.8	---	---	---	---	---	---	---	---	---
30	7.2	5.8	6.7	---	---	---	---	---	---	---	---	---
31	6.9	6.5	6.7	---	---	---	---	---	---	---	---	---
MONTH	7.4	0.9	6.0	8.0	4.9	6.2	---	---	---	---	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	9.7	9.3	9.6	8.3	8.0	8.2
2	---	---	---	---	---	---	9.4	9.1	9.2	8.4	7.7	8.2
3	---	---	---	---	---	---	9.3	9.1	9.2	7.8	7.4	7.6
4	---	---	---	---	---	---	9.8	9.3	9.5	7.9	7.0	7.5
5	---	---	---	---	---	---	9.9	9.4	9.6	7.8	6.5	7.2
6	---	---	---	---	---	---	10.1	8.9	9.6	7.5	6.3	6.8
7	---	---	---	---	---	---	9.7	9.0	9.3	7.0	6.7	6.9
8	---	---	---	---	---	---	9.2	8.8	9.0	7.0	6.2	6.6
9	---	---	---	---	---	---	9.0	8.7	8.8	6.9	6.5	6.7
10	---	---	---	---	---	---	8.9	8.7	8.8	7.1	6.4	6.8
11	---	---	---	---	---	---	8.8	8.6	8.7	6.9	6.2	6.6
12	---	---	---	---	---	---	8.7	8.5	8.6	7.3	6.2	6.7
13	---	---	---	---	---	---	8.6	8.3	8.4	7.3	6.6	6.9
14	---	---	---	---	---	---	8.6	8.4	8.4	7.2	6.6	7.0
15	---	---	---	---	---	---	9.2	8.2	8.5	7.9	6.8	7.2
16	---	---	---	---	---	---	9.1	8.3	8.7	7.6	6.6	7.1
17	---	---	---	---	---	---	9.2	8.8	8.9	7.3	5.8	6.6
18	---	---	---	---	---	---	9.1	8.8	9.0	6.0	5.7	5.9
19	---	---	---	---	---	---	9.3	9.1	9.2	5.7	5.3	5.5
20	---	---	---	---	---	---	9.3	9.1	9.2	5.4	5.2	5.4
21	---	---	---	---	---	---	9.3	9.2	9.2	5.6	5.1	5.3
22	---	---	---	---	---	---	9.3	8.9	9.1	5.8	5.3	5.5
23	---	---	---	---	---	---	9.4	8.8	9.1	6.2	5.2	5.5
24	---	---	---	---	---	---	9.2	8.9	9.0	5.7	5.1	5.4
25	---	---	---	---	---	---	9.0	8.2	8.6	5.6	4.6	5.1
26	---	---	---	---	---	---	8.2	8.0	8.1	4.2	3.3	3.9
27	---	---	---	---	---	---	8.0	7.9	8.0	3.4	3.4	3.4
28	---	---	---	---	---	---	8.2	8.0	8.1	3.4	3.3	3.4
29	---	---	---	---	---	---	8.4	7.7	8.0	3.4	3.2	3.3
30	---	---	---	9.7	9.6	9.7	8.7	8.1	8.4	3.2	3.0	3.1
31	---	---	---	9.8	9.5	9.6	---	---	---	5.9	3.1	4.3
MONTH	---	---	---	9.8	9.5	9.7	10.1	7.7	8.9	8.4	3.0	6.0

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DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	0.8	0.6	0.7	7.2	7.1	7.2	---	---	---	---	---	---
2	---	---	---	7.5	7.3	7.4	---	---	---	---	---	---
3	---	---	---	7.2	6.9	7.0	---	---	---	---	---	---
4	---	---	---	7.1	6.7	7.0	---	---	---	---	---	---
5	---	---	---	7.2	6.3	6.9	---	---	---	---	---	---
6	---	---	---	6.6	6.3	6.5	---	---	---	---	---	---
7	---	---	---	7.2	5.7	6.4	---	---	---	---	---	---
8	---	---	---	8.6	6.2	7.4	---	---	---	---	---	---
9	---	---	---	7.6	5.6	6.9	---	---	---	---	---	---
10	---	---	---	7.9	7.4	7.6	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	7.3	6.9	7.1	---	---	---	---	---	---	---	---	---
26	7.1	6.9	7.0	---	---	---	---	---	---	---	---	---
27	7.7	7.3	7.4	---	---	---	---	---	---	---	---	---
28	7.5	7.4	7.4	---	---	---	---	---	---	---	---	---
29	7.6	6.8	7.2	---	---	---	---	---	---	---	---	---
30	7.3	6.5	6.9	---	---	---	---	---	---	---	---	---
31	8.5	6.7	7.3	---	---	---	---	---	---	---	---	---
MONTH	8.5	0.6	6.4	8.6	5.6	7.0	---	---	---	---	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	9.8	9.4	9.7	9.2	8.7	8.9
2	---	---	---	---	---	---	9.6	9.4	9.5	9.4	8.6	8.8
3	---	---	---	---	---	---	9.6	9.4	9.4	9.2	8.7	9.0
4	---	---	---	---	---	---	10.0	9.5	9.7	9.1	8.5	8.8
5	---	---	---	---	---	---	10.0	9.9	10.0	9.1	7.8	8.5
6	---	---	---	---	---	---	10.2	9.6	10.1	8.6	7.9	8.3
7	---	---	---	---	---	---	9.8	9.4	9.7	8.8	8.3	8.5
8	---	---	---	---	---	---	9.4	9.1	9.3	8.7	8.3	8.5
9	---	---	---	---	---	---	9.7	9.0	9.2	8.8	8.2	8.6
10	---	---	---	---	---	---	9.2	9.0	9.0	9.8	7.6	8.6
11	---	---	---	---	---	---	9.3	8.7	9.0	8.7	7.8	8.4
12	---	---	---	---	---	---	9.0	8.8	8.9	8.7	8.3	8.4
13	---	---	---	---	---	---	9.3	8.6	9.0	9.2	8.8	9.0
14	---	---	---	---	---	---	9.0	8.5	8.7	9.2	8.3	8.9
15	---	---	---	---	---	---	8.9	8.3	8.7	9.5	9.2	9.3
16	---	---	---	---	---	---	9.2	8.6	9.0	9.8	8.9	9.4
17	---	---	---	---	---	---	9.3	8.9	9.1	9.6	8.3	8.9
18	---	---	---	---	---	---	9.4	9.2	9.3	9.1	8.0	8.3
19	---	---	---	---	---	---	9.3	9.2	9.3	8.7	8.0	8.2
20	---	---	---	---	---	---	9.4	9.2	9.3	8.9	7.8	8.1
21	---	---	---	---	---	---	9.5	9.3	9.4	8.9	7.5	8.2
22	---	---	---	---	---	---	9.6	9.3	9.4	8.6	8.2	8.4
23	---	---	---	---	---	---	9.5	9.1	9.3	9.0	8.2	8.6
24	---	---	---	---	---	---	9.3	9.2	9.3	8.8	7.7	8.4
25	---	---	---	---	---	---	9.2	8.8	9.1	8.5	7.4	7.9
26	---	---	---	---	---	---	9.1	8.4	8.8	8.6	6.8	7.7
27	---	---	---	---	---	---	9.1	8.4	8.7	8.4	6.3	7.2
28	---	---	---	---	---	---	8.6	8.3	8.4	8.2	6.7	7.5
29	---	---	---	---	---	---	9.0	8.2	8.7	8.2	6.9	7.6
30	---	---	---	9.8	9.7	9.8	9.3	8.9	9.1	8.2	6.9	7.5
31	---	---	---	10.0	9.8	9.9	---	---	---	7.7	5.5	6.9
MONTH	---	---	---	10.0	9.7	9.8	10.2	8.2	9.2	9.8	5.5	8.4

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DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
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DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	2.5	2.2	2.4	8.7	7.4	8.2	---	---	---	---	---	---
2	---	---	---	9.3	7.7	8.6	---	---	---	---	---	---
3	---	---	---	9.7	8.1	9.2	---	---	---	---	---	---
4	---	---	---	9.5	8.1	9.0	---	---	---	---	---	---
5	---	---	---	9.7	8.4	9.1	---	---	---	---	---	---
6	---	---	---	9.5	7.7	8.4	---	---	---	---	---	---
7	---	---	---	9.7	8.3	9.1	---	---	---	---	---	---
8	---	---	---	9.0	7.8	8.6	---	---	---	---	---	---
9	---	---	---	8.0	6.8	7.3	---	---	---	---	---	---
10	---	---	---	7.6	7.5	7.6	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	8.2	7.0	7.4	---	---	---	---	---	---	---	---	---
26	7.3	7.0	7.2	---	---	---	---	---	---	---	---	---
27	7.7	7.4	7.5	---	---	---	---	---	---	---	---	---
28	8.1	7.4	7.7	---	---	---	---	---	---	---	---	---
29	8.4	7.3	7.8	---	---	---	---	---	---	---	---	---
30	8.4	6.8	7.4	---	---	---	---	---	---	---	---	---
31	8.9	6.8	8.0	---	---	---	---	---	---	---	---	---
MONTH	8.9	2.2	6.9	9.7	6.8	8.5	---	---	---	---	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	9.9	9.6	9.7	9.3	9.1	9.2
2	---	---	---	---	---	---	9.8	9.6	9.7	9.4	8.8	9.1
3	---	---	---	---	---	---	10.0	9.5	9.8	9.3	9.1	9.2
4	---	---	---	---	---	---	10.2	9.2	9.9	9.3	9.1	9.2
5	---	---	---	---	---	---	10.1	9.8	10.0	9.3	9.1	9.2
6	---	---	---	---	---	---	10.2	10.0	10.1	10.3	8.9	9.3
7	---	---	---	---	---	---	10.3	9.7	10.0	10.0	9.5	9.7
8	---	---	---	---	---	---	10.2	9.9	10.0	10.1	9.7	9.9
9	---	---	---	---	---	---	10.1	9.9	10.0	10.3	9.9	10.0
10	---	---	---	---	---	---	10.3	10.0	10.1	10.5	9.4	10.0
11	---	---	---	---	---	---	10.2	9.9	10.0	10.3	9.8	10.0
12	---	---	---	---	---	---	10.2	10.0	10.1	10.3	10.0	10.2
13	---	---	---	---	---	---	10.1	10.0	10.0	9.9	9.6	9.8
14	---	---	---	---	---	---	9.9	8.9	9.4	9.9	9.5	9.7
15	---	---	---	---	---	---	9.9	8.8	9.4	9.7	8.5	9.4
16	---	---	---	---	---	---	9.4	8.9	9.1	9.8	9.5	9.6
17	---	---	---	---	---	---	9.5	9.0	9.2	9.6	8.5	9.0
18	---	---	---	---	---	---	9.6	9.2	9.3	9.6	8.8	9.3
19	---	---	---	---	---	---	9.7	9.2	9.4	9.7	9.0	9.4
20	---	---	---	---	---	---	9.3	9.2	9.2	9.7	8.4	9.2
21	---	---	---	---	---	---	9.4	9.2	9.3	9.5	8.7	9.1
22	---	---	---	---	---	---	9.6	9.1	9.3	9.5	8.6	8.9
23	---	---	---	---	---	---	9.5	8.9	9.3	8.9	7.8	8.4
24	---	---	---	---	---	---	9.3	9.2	9.3	9.1	7.6	8.6
25	---	---	---	---	---	---	9.3	9.0	9.2	8.9	7.6	8.4
26	---	---	---	---	---	---	9.4	9.0	9.2	8.9	7.6	8.5
27	---	---	---	---	---	---	9.2	8.8	9.0	8.5	7.5	8.1
28	---	---	---	---	---	---	9.4	9.0	9.2	8.6	7.8	8.2
29	---	---	---	---	---	---	9.6	9.1	9.2	8.3	8.1	8.2
30	---	---	---	9.6	9.6	9.6	9.4	9.1	9.2	8.2	7.4	7.9
31	---	---	---	9.9	9.5	9.8	---	---	---	8.0	7.2	7.5
MONTH	---	---	---	9.9	9.5	9.7	10.3	8.8	9.6	10.5	7.2	9.1

03400798 MARTINS FORK LAKE AT MARTINS FORK DAM NEAR SMITH, 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	3.8	2.1	2.8	8.7	7.4	8.3	---	---	---	---	---	---
2	---	---	---	9.0	7.8	8.4	---	---	---	---	---	---
3	---	---	---	9.6	8.1	9.1	---	---	---	---	---	---
4	---	---	---	9.6	8.5	9.2	---	---	---	---	---	---
5	---	---	---	9.5	7.7	8.8	---	---	---	---	---	---
6	---	---	---	9.4	7.8	8.4	---	---	---	---	---	---
7	---	---	---	9.6	7.9	8.8	---	---	---	---	---	---
8	---	---	---	9.3	7.7	8.7	---	---	---	---	---	---
9	---	---	---	8.4	6.9	7.6	---	---	---	---	---	---
10	---	---	---	7.6	7.1	7.4	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	8.2	7.1	7.4	---	---	---	---	---	---	---	---	---
26	8.0	6.9	7.3	---	---	---	---	---	---	---	---	---
27	7.6	7.3	7.4	---	---	---	---	---	---	---	---	---
28	8.1	7.5	7.7	---	---	---	---	---	---	---	---	---
29	8.3	7.4	7.7	---	---	---	---	---	---	---	---	---
30	8.4	6.8	7.6	---	---	---	---	---	---	---	---	---
31	8.8	6.9	7.7	---	---	---	---	---	---	---	---	---
MONTH	8.8	2.1	7.0	9.6	6.9	8.5	---	---	---	---	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	---	---	9.2	8.9	9.0	
2	---	---	---	---	---	---	---	---	9.2	9.0	9.1	
3	---	---	---	---	---	---	---	---	9.4	9.1	9.2	
4	---	---	---	---	---	---	---	---	9.2	9.1	9.2	
5	---	---	---	---	---	---	---	---	9.2	9.1	9.1	
6	---	---	---	---	---	---	---	---	9.6	9.0	9.2	
7	---	---	---	---	---	---	---	---	9.6	9.3	9.5	
8	---	---	---	---	---	---	---	---	9.4	9.3	9.3	
9	---	---	---	---	---	---	---	---	9.3	9.0	9.2	
10	---	---	---	---	---	---	---	---	9.2	9.0	9.1	
11	---	---	---	---	---	---	---	---	9.0	8.7	8.8	
12	---	---	---	---	---	---	---	---	9.2	8.6	8.8	
13	---	---	---	---	---	---	---	---	8.5	8.4	8.4	
14	---	---	---	---	---	---	---	---	8.6	8.2	8.4	
15	---	---	---	---	---	---	---	---	8.6	8.3	8.4	
16	---	---	---	---	---	---	---	---	9.1	8.4	8.6	
17	---	---	---	---	---	---	---	---	8.7	8.5	8.6	
18	---	---	---	---	---	---	---	---	8.5	8.4	8.4	
19	---	---	---	---	---	---	---	---	8.3	8.2	8.3	
20	---	---	---	---	---	---	---	---	8.4	8.2	8.3	
21	---	---	---	---	---	---	---	---	8.2	8.0	8.1	
22	---	---	---	---	---	---	---	---	8.0	7.8	7.9	
23	---	---	---	---	---	---	---	---	7.8	7.6	7.7	
24	---	---	---	---	---	---	---	---	7.7	7.5	7.6	
25	---	---	---	---	---	---	---	---	7.7	7.5	7.6	
26	---	---	---	---	---	---	---	---	7.6	7.5	7.5	
27	---	---	---	---	---	---	---	---	7.6	6.3	7.2	
28	---	---	---	---	---	---	---	---	7.6	7.4	7.5	
29	---	---	---	---	---	---	---	---	7.8	7.3	7.5	
30	---	---	---	---	---	---	9.1	8.9	9.0	7.5	7.3	7.4
31	---	---	---	---	---	---	---	---	---	7.5	7.2	7.4
MONTH	---	---	---	---	---	---	9.1	8.9	9.0	9.6	6.3	8.4

03400798 MARTINS FORK LAKE AT MARTINS FORK DAM NEAR SMITH, KY—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 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	146	144	145	144	143	144	---	---	---	---	---	---
2	---	---	---	145	143	144	---	---	---	---	---	---
3	---	---	---	144	142	144	---	---	---	---	---	---
4	---	---	---	144	143	144	---	---	---	---	---	---
5	---	---	---	145	143	144	---	---	---	---	---	---
6	---	---	---	145	144	144	---	---	---	---	---	---
7	---	---	---	145	143	145	---	---	---	---	---	---
8	---	---	---	146	145	145	---	---	---	---	---	---
9	---	---	---	155	147	150	---	---	---	---	---	---
10	---	---	---	147	146	147	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	147	145	146	---	---	---	---	---	---	---	---	---
26	146	145	145	---	---	---	---	---	---	---	---	---
27	145	144	144	---	---	---	---	---	---	---	---	---
28	145	144	144	---	---	---	---	---	---	---	---	---
29	151	145	147	---	---	---	---	---	---	---	---	---
30	146	140	144	---	---	---	---	---	---	---	---	---
31	145	139	142	---	---	---	---	---	---	---	---	---
MONTH	151	139	145	155	142	145	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	109	106	107	117	114	116
2	---	---	---	---	---	---	125	107	112	116	110	114
3	---	---	---	---	---	---	118	109	114	109	103	107
4	---	---	---	---	---	---	112	107	109	107	104	106
5	---	---	---	---	---	---	108	107	108	107	104	105
6	---	---	---	---	---	---	113	107	108	106	104	104
7	---	---	---	---	---	---	119	110	113	105	103	104
8	---	---	---	---	---	---	120	114	116	104	103	104
9	---	---	---	---	---	---	118	111	116	104	103	104
10	---	---	---	---	---	---	118	115	118	109	103	104
11	---	---	---	---	---	---	119	114	116	105	103	104
12	---	---	---	---	---	---	117	116	117	108	104	106
13	---	---	---	---	---	---	116	112	115	110	107	108
14	---	---	---	---	---	---	115	114	114	111	107	109
15	---	---	---	---	---	---	117	111	114	117	112	113
16	---	---	---	---	---	---	112	100	106	116	112	114
17	---	---	---	---	---	---	110	103	107	116	114	115
18	---	---	---	---	---	---	110	107	108	116	114	115
19	---	---	---	---	---	---	114	109	111	116	115	116
20	---	---	---	---	---	---	112	110	111	117	115	116
21	---	---	---	---	---	---	112	109	110	117	116	116
22	---	---	---	---	---	---	111	109	110	117	116	116
23	---	---	---	---	---	---	110	109	110	117	116	117
24	---	---	---	---	---	---	111	110	110	118	117	118
25	---	---	---	---	---	---	112	110	110	118	117	118
26	---	---	---	---	---	---	113	111	112	119	118	119
27	---	---	---	---	---	---	115	111	113	120	119	119
28	---	---	---	---	---	---	114	113	113	120	119	119
29	---	---	---	---	---	---	115	113	114	120	118	119
30	---	---	---	104	104	104	118	115	116	120	118	119
31	---	---	---	110	104	107	---	---	---	129	110	121
MONTH	---	---	---	110	104	106	125	100	112	129	103	112

03400798 MARTINS FORK LAKE AT MARTINS FORK DAM NEAR SMITH, KY—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 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	141	141	141	145	143	145	---	---	---	---	---	---
2	---	---	---	146	145	145	---	---	---	---	---	---
3	---	---	---	146	145	146	---	---	---	---	---	---
4	---	---	---	147	146	146	---	---	---	---	---	---
5	---	---	---	147	145	146	---	---	---	---	---	---
6	---	---	---	147	145	146	---	---	---	---	---	---
7	---	---	---	146	143	145	---	---	---	---	---	---
8	---	---	---	146	145	145	---	---	---	---	---	---
9	---	---	---	149	147	148	---	---	---	---	---	---
10	---	---	---	147	147	147	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	146	145	146	---	---	---	---	---	---	---	---	---
26	145	144	145	---	---	---	---	---	---	---	---	---
27	145	144	145	---	---	---	---	---	---	---	---	---
28	145	144	145	---	---	---	---	---	---	---	---	---
29	146	145	146	---	---	---	---	---	---	---	---	---
30	150	146	147	---	---	---	---	---	---	---	---	---
31	146	144	145	---	---	---	---	---	---	---	---	---
MONTH	150	141	145	149	143	146	---	---	---	---	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	105	105	105	112	110	111
2	---	---	---	---	---	---	106	105	105	113	109	111
3	---	---	---	---	---	---	108	106	107	116	110	114
4	---	---	---	---	---	---	107	107	107	117	112	115
5	---	---	---	---	---	---	108	108	108	116	114	115
6	---	---	---	---	---	---	108	107	108	116	115	115
7	---	---	---	---	---	---	109	108	108	116	110	114
8	---	---	---	---	---	---	110	108	109	116	115	116
9	---	---	---	---	---	---	110	108	109	116	115	116
10	---	---	---	---	---	---	110	109	110	117	116	116
11	---	---	---	---	---	---	110	110	110	117	116	117
12	---	---	---	---	---	---	110	109	110	117	116	117
13	---	---	---	---	---	---	110	107	108	117	117	117
14	---	---	---	---	---	---	113	107	113	117	116	117
15	---	---	---	---	---	---	110	102	106	121	116	118
16	---	---	---	---	---	---	108	105	106	124	117	120
17	---	---	---	---	---	---	108	106	107	122	118	120
18	---	---	---	---	---	---	109	108	109	122	117	119
19	---	---	---	---	---	---	112	108	110	124	118	122
20	---	---	---	---	---	---	115	110	111	125	118	122
21	---	---	---	---	---	---	115	107	110	129	122	126
22	---	---	---	---	---	---	124	108	114	130	120	128
23	---	---	---	---	---	---	120	109	115	131	126	129
24	---	---	---	---	---	---	115	113	114	140	126	130
25	---	---	---	---	---	---	116	110	112	134	128	132
26	---	---	---	---	---	---	120	114	117	135	124	130
27	---	---	---	---	---	---	118	111	116	136	127	132
28	---	---	---	---	---	---	118	107	112	135	130	133
29	---	---	---	---	---	---	116	111	114	137	134	136
30	---	---	---	105	104	105	115	109	112	137	132	136
31	---	---	---	106	105	105	---	---	---	143	134	138
MONTH	---	---	---	106	104	105	124	102	110	143	109	122

03400798 MARTINS FORK LAKE AT MARTINS FORK DAM NEAR SMITH, KY—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 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	144	141	142	145	143	145	---	---	---	---	---	---
2	---	---	---	146	144	145	---	---	---	---	---	---
3	---	---	---	146	145	145	---	---	---	---	---	---
4	---	---	---	147	145	146	---	---	---	---	---	---
5	---	---	---	146	145	146	---	---	---	---	---	---
6	---	---	---	147	145	146	---	---	---	---	---	---
7	---	---	---	146	143	145	---	---	---	---	---	---
8	---	---	---	146	145	145	---	---	---	---	---	---
9	---	---	---	149	145	147	---	---	---	---	---	---
10	---	---	---	149	147	148	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	147	145	146	---	---	---	---	---	---	---	---	---
26	146	145	145	---	---	---	---	---	---	---	---	---
27	146	144	145	---	---	---	---	---	---	---	---	---
28	145	144	145	---	---	---	---	---	---	---	---	---
29	146	145	146	---	---	---	---	---	---	---	---	---
30	150	146	147	---	---	---	---	---	---	---	---	---
31	147	144	145	---	---	---	---	---	---	---	---	---
MONTH	150	141	145	149	143	146	---	---	---	---	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	---	---	---	113	113	113
2	---	---	---	---	---	---	---	---	---	114	113	114
3	---	---	---	---	---	---	---	---	---	117	113	116
4	---	---	---	---	---	---	---	---	---	117	115	116
5	---	---	---	---	---	---	---	---	---	117	116	117
6	---	---	---	---	---	---	---	---	---	117	117	117
7	---	---	---	---	---	---	---	---	---	118	117	117
8	---	---	---	---	---	---	---	---	---	119	117	118
9	---	---	---	---	---	---	---	---	---	119	118	119
10	---	---	---	---	---	---	---	---	---	120	119	119
11	---	---	---	---	---	---	---	---	---	121	119	120
12	---	---	---	---	---	---	---	---	---	121	119	120
13	---	---	---	---	---	---	---	---	---	121	120	121
14	---	---	---	---	---	---	---	---	---	121	120	121
15	---	---	---	---	---	---	---	---	---	122	121	121
16	---	---	---	---	---	---	---	---	---	123	122	122
17	---	---	---	---	---	---	---	---	---	123	122	122
18	---	---	---	---	---	---	---	---	---	124	123	123
19	---	---	---	---	---	---	---	---	---	125	124	124
20	---	---	---	---	---	---	---	---	---	125	124	125
21	---	---	---	---	---	---	---	---	---	126	125	125
22	---	---	---	---	---	---	---	---	---	126	126	126
23	---	---	---	---	---	---	---	---	---	127	126	127
24	---	---	---	---	---	---	---	---	---	128	127	128
25	---	---	---	---	---	---	---	---	---	128	128	128
26	---	---	---	---	---	---	---	---	---	128	127	128
27	---	---	---	---	---	---	---	---	---	129	127	128
28	---	---	---	---	---	---	---	---	---	130	128	129
29	---	---	---	---	---	---	---	---	---	131	129	130
30	---	---	---	---	---	---	113	110	112	132	131	131
31	---	---	---	---	---	---	---	---	---	130	129	129
MONTH	---	---	---	---	---	---	113	110	112	132	113	122

03400798 MARTINS FORK LAKE AT MARTINS FORK DAM NEAR SMITH, KY—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.7	6.6	7.5	7.2	---	---	---	---	---	---	---	---
2	---	---	7.5	7.2	---	---	---	---	---	---	---	---
3	---	---	7.4	7.1	---	---	---	---	---	---	---	---
4	---	---	7.3	7.0	---	---	---	---	---	---	---	---
5	---	---	7.2	7.0	---	---	---	---	---	---	---	---
6	---	---	7.2	7.0	---	---	---	---	---	---	---	---
7	---	---	7.0	7.0	---	---	---	---	---	---	---	---
8	---	---	7.1	7.0	---	---	---	---	---	---	---	---
9	---	---	7.2	7.0	---	---	---	---	---	---	---	---
10	---	---	7.2	7.2	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	7.2	7.1	---	---	---	---	---	---	---	---	---	---
26	7.3	7.1	---	---	---	---	---	---	---	---	---	---
27	7.2	7.2	---	---	---	---	---	---	---	---	---	---
28	7.6	7.3	---	---	---	---	---	---	---	---	---	---
29	7.5	7.3	---	---	---	---	---	---	---	---	---	---
30	7.3	7.2	---	---	---	---	---	---	---	---	6.8	6.8
31	7.4	7.2	---	---	---	---	---	---	---	---	6.8	6.7
MONTH	7.6	6.6	7.5	7.0	---	---	---	---	---	---	6.8	6.7
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.7	6.6	6.6	6.5	7.0	6.9	7.3	7.2	7.4	7.3	7.2	7.2
2	6.8	6.6	6.7	6.5	7.0	6.8	7.3	6.6	7.4	7.3	7.3	7.2
3	6.9	6.7	6.7	6.4	6.9	6.9	6.7	6.6	7.4	6.8	7.3	7.3
4	6.8	6.7	6.5	6.4	7.0	6.8	6.8	6.7	6.8	6.8	7.3	7.3
5	6.9	6.8	6.5	6.4	6.9	6.8	6.8	6.8	6.9	6.8	7.3	7.2
6	7.0	6.7	6.4	6.2	6.9	6.8	6.8	6.8	6.9	6.8	7.4	7.4
7	6.9	6.8	6.4	6.2	6.9	6.8	6.9	6.8	6.9	6.8	7.5	7.4
8	6.8	6.7	6.3	6.2	6.9	6.8	6.9	6.9	6.9	6.8	7.5	7.4
9	6.8	6.7	6.3	6.2	7.0	6.8	7.0	6.9	6.9	6.9	7.5	7.4
10	6.7	6.7	6.3	6.2	7.0	6.9	7.1	6.9	6.9	6.9	7.5	7.4
11	6.8	6.7	6.4	6.3	6.9	6.8	7.1	7.0	7.1	6.9	7.5	7.4
12	6.8	6.8	6.3	6.2	6.9	6.8	7.1	7.0	7.1	7.0	7.5	7.4
13	6.8	6.7	6.5	6.4	6.9	6.8	7.1	7.1	7.0	7.0	7.6	7.5
14	6.8	6.7	6.5	6.4	6.9	6.8	7.2	7.1	7.1	7.0	7.6	7.5
15	6.7	6.6	6.7	6.5	6.9	6.8	7.2	7.2	7.1	7.0	7.6	7.4
16	6.7	6.6	6.7	6.5	6.9	6.7	7.2	7.2	7.1	6.8	7.5	7.4
17	6.7	6.6	6.6	6.4	6.8	6.7	7.3	7.2	6.8	6.8	7.4	7.4
18	6.7	6.6	6.5	6.4	6.8	6.7	7.3	7.3	6.9	6.8	7.3	7.2
19	6.7	6.6	6.6	6.5	6.8	6.8	7.3	7.1	6.9	6.8	7.2	7.1
20	6.8	6.6	6.5	6.4	6.8	6.8	7.2	7.1	6.8	6.8	---	---
21	6.7	6.6	6.6	6.5	6.9	6.8	7.1	7.1	6.9	6.8	---	---
22	6.7	6.5	6.6	6.5	7.0	6.9	7.2	7.1	7.0	6.9	---	---
23	6.8	6.6	6.6	6.5	6.9	6.9	7.2	7.1	7.0	6.9	---	---
24	6.9	6.5	6.7	6.6	7.0	6.9	7.2	7.2	7.0	6.9	6.9	6.9
25	6.8	6.5	6.7	6.5	7.1	7.0	7.3	7.2	7.1	7.0	7.0	6.8
26	6.7	6.4	6.7	6.5	7.1	7.0	7.3	7.2	7.1	7.0	6.9	6.8
27	6.6	6.3	6.7	6.6	7.1	7.0	7.3	7.2	7.1	7.0	6.9	6.8
28	6.4	6.4	6.7	6.6	7.2	7.1	7.3	7.2	7.2	7.0	6.8	6.8
29	6.4	6.4	6.7	6.6	7.2	7.1	7.3	7.2	7.2	7.1	6.8	6.8
30	6.6	6.5	6.7	6.6	7.2	7.1	7.3	7.2	7.3	7.2	6.8	6.6
31	---	---	6.8	6.7	---	---	7.4	7.3	7.2	7.2	---	---
MONTH	7.0	6.3	6.8	6.2	7.2	6.7	7.4	6.6	7.4	6.8	7.6	6.6
YEAR	7.6	6.2										

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.7	6.6	7.5	7.3	---	---	---	---	---	---	---	---
2	---	---	7.5	7.3	---	---	---	---	---	---	---	---
3	---	---	7.5	7.2	---	---	---	---	---	---	---	---
4	---	---	7.2	7.1	---	---	---	---	---	---	---	---
5	---	---	7.4	7.2	---	---	---	---	---	---	---	---
6	---	---	7.3	7.1	---	---	---	---	---	---	---	---
7	---	---	7.2	7.1	---	---	---	---	---	---	---	---
8	---	---	7.4	7.1	---	---	---	---	---	---	---	---
9	---	---	7.2	7.1	---	---	---	---	---	---	---	---
10	---	---	7.2	7.2	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	7.2	7.1	---	---	---	---	---	---	---	---	---	---
26	7.3	7.1	---	---	---	---	---	---	---	---	---	---
27	7.5	7.1	---	---	---	---	---	---	---	---	---	---
28	7.6	7.4	---	---	---	---	---	---	---	---	---	---
29	7.5	7.4	---	---	---	---	---	---	---	---	---	---
30	7.3	7.2	---	---	---	---	---	---	---	---	6.9	6.9
31	7.5	7.3	---	---	---	---	---	---	---	---	7.0	6.9
MONTH	7.6	6.6	7.5	7.1	---	---	---	---	---	---	7.0	6.9
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.0	6.7	6.9	6.7	7.1	7.0	7.4	7.3	7.3	7.3	7.2	7.1
2	7.0	6.8	6.9	6.8	7.0	7.0	7.4	6.7	7.3	7.3	7.3	7.1
3	7.0	6.8	7.0	6.8	7.0	7.0	6.7	6.7	7.4	6.7	7.3	7.2
4	7.0	6.8	6.8	6.7	7.1	7.0	6.8	6.7	6.7	6.6	7.3	7.3
5	7.1	7.0	6.9	6.6	7.0	7.0	6.8	6.8	6.8	6.7	7.4	7.2
6	7.1	6.9	6.8	6.5	7.0	7.0	6.8	6.7	6.8	6.8	7.4	7.3
7	7.0	6.9	6.7	6.5	7.0	6.9	6.9	6.8	6.8	6.7	7.5	7.4
8	6.9	6.8	6.6	6.5	7.0	7.0	6.9	6.8	6.9	6.8	7.5	7.4
9	7.0	6.8	6.6	6.5	7.1	7.0	6.9	6.8	7.0	6.9	7.5	7.4
10	6.9	6.8	7.0	6.4	7.1	7.1	6.9	6.8	7.0	6.9	7.5	7.4
11	6.9	6.8	6.6	6.5	7.1	7.0	7.0	6.9	7.0	6.9	7.5	7.4
12	6.9	6.9	6.6	6.6	7.1	7.0	7.0	7.0	7.1	7.0	7.4	7.4
13	6.9	6.8	7.0	6.8	7.0	7.0	7.0	7.0	7.1	7.0	7.5	7.4
14	6.9	6.7	6.9	6.8	7.1	7.0	7.1	7.0	7.1	7.0	7.5	7.4
15	6.8	6.6	7.2	7.0	7.1	7.0	7.1	7.1	7.2	7.1	7.5	7.2
16	6.8	6.7	7.3	7.0	7.0	6.8	7.1	7.1	7.2	6.7	7.3	7.1
17	6.8	6.6	7.3	6.8	6.9	6.8	7.2	7.1	6.8	6.7	7.2	7.1
18	6.8	6.7	7.2	6.8	7.0	6.8	7.2	7.2	6.9	6.8	7.3	7.1
19	6.8	6.7	7.0	6.8	7.0	6.9	7.2	6.9	6.9	6.8	7.2	7.2
20	6.8	6.7	7.0	6.8	7.0	6.9	7.0	7.0	6.9	6.8	---	---
21	6.9	6.7	7.0	6.8	7.0	6.9	7.0	6.9	6.8	6.8	---	---
22	6.9	6.7	7.0	6.9	7.0	7.0	7.0	7.0	7.0	6.9	---	---
23	7.0	6.8	7.2	7.0	7.0	6.9	7.1	7.0	7.0	6.9	---	---
24	7.0	6.7	7.1	6.9	7.1	7.0	7.1	7.1	7.0	6.9	7.0	7.0
25	6.9	6.6	7.0	6.8	7.1	7.1	7.1	7.1	7.1	7.0	7.0	6.8
26	6.9	6.6	7.2	6.8	7.1	7.0	7.2	7.1	7.1	7.0	6.9	6.8
27	6.8	6.5	7.1	6.9	7.2	7.0	7.2	7.1	7.1	7.0	6.9	6.8
28	6.6	6.5	7.1	6.9	7.2	7.2	7.2	7.1	7.1	7.0	6.8	6.7
29	6.7	6.5	7.1	6.9	7.2	7.2	7.2	7.2	7.2	7.0	6.8	6.7
30	6.9	6.7	7.0	7.2	7.3	7.2	7.3	7.2	7.2	7.1	6.8	6.7
31	---	---	7.1	6.9	---	---	7.3	7.3	7.2	7.2	---	---
MONTH	7.1	6.5	7.3	6.4	7.3	6.8	7.4	6.7	7.4	6.6	7.5	6.7
YEAR	7.6	6.4										

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.7	6.6	7.7	7.4	---	---	---	---	---	---	---	---
2	---	---	7.8	7.5	---	---	---	---	---	---	---	---
3	---	---	8.0	7.6	---	---	---	---	---	---	---	---
4	---	---	7.8	7.4	---	---	---	---	---	---	---	---
5	---	---	8.0	7.6	---	---	---	---	---	---	---	---
6	---	---	7.9	7.4	---	---	---	---	---	---	---	---
7	---	---	7.7	7.4	---	---	---	---	---	---	---	---
8	---	---	7.5	7.3	---	---	---	---	---	---	---	---
9	---	---	7.3	7.2	---	---	---	---	---	---	---	---
10	---	---	7.2	7.2	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	7.3	7.1	---	---	---	---	---	---	---	---	---	---
26	7.3	7.2	---	---	---	---	---	---	---	---	---	---
27	7.6	7.4	---	---	---	---	---	---	---	---	---	---
28	7.7	7.4	---	---	---	---	---	---	---	---	---	---
29	7.6	7.4	---	---	---	---	---	---	---	---	---	---
30	7.6	7.3	---	---	---	---	---	---	---	---	7.4	7.4
31	7.6	7.3	---	---	---	---	---	---	---	---	7.4	7.2
MONTH	7.7	6.6	8.0	7.2	---	---	---	---	---	---	7.4	7.2
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.3	7.1	7.3	7.0	7.1	7.0	7.8	7.5	7.7	7.6	8.1	7.6
2	7.3	7.2	7.6	7.0	7.1	7.0	7.7	7.4	7.7	7.6	8.2	7.6
3	7.3	7.1	7.3	7.1	7.1	7.1	7.7	7.3	7.7	7.1	8.1	7.7
4	7.3	7.2	7.3	7.1	7.2	7.1	7.6	7.4	7.4	7.3	8.1	7.7
5	7.2	7.0	7.4	7.1	7.1	7.0	7.5	7.2	7.4	7.0	8.0	7.4
6	7.2	7.0	7.5	7.1	7.1	7.0	7.6	7.2	7.3	7.2	8.0	7.7
7	7.4	7.0	7.3	6.8	7.0	7.0	7.6	7.4	7.3	7.2	8.0	7.7
8	7.6	7.2	7.4	7.1	7.1	7.0	7.6	7.4	7.4	7.2	8.0	7.8
9	7.6	7.1	7.4	7.1	7.1	7.0	7.6	7.4	7.3	7.2	7.7	7.3
10	7.7	7.5	7.5	6.9	7.2	7.1	7.6	7.4	7.2	7.1	7.4	7.4
11	7.6	7.5	7.6	7.3	7.2	7.1	7.6	7.5	7.4	7.0	7.5	7.4
12	7.4	7.3	7.7	7.4	7.4	7.1	7.6	7.6	7.3	7.1	7.5	7.4
13	7.6	7.3	7.6	7.5	7.5	7.1	7.6	7.6	7.2	7.1	7.6	7.5
14	7.4	6.9	7.6	7.4	7.5	7.2	7.7	7.5	7.0	6.9	7.8	7.5
15	7.1	6.7	7.7	7.4	7.7	7.2	7.8	7.6	7.1	7.1	7.7	7.5
16	6.9	6.8	7.8	7.4	7.7	7.4	7.7	7.6	7.1	7.0	7.6	7.4
17	7.2	6.8	7.7	7.5	7.7	7.4	7.7	7.6	7.1	7.0	7.7	7.3
18	7.1	6.7	7.6	7.5	7.8	7.5	7.8	7.7	7.4	7.0	7.3	7.2
19	7.2	6.8	7.7	7.5	7.8	7.5	7.8	7.7	7.3	6.9	7.4	7.1
20	7.0	6.8	7.5	7.4	7.8	7.6	7.8	7.7	7.4	7.2	---	---
21	7.3	6.8	7.6	7.5	7.8	7.7	7.8	7.7	7.4	7.0	---	---
22	7.4	6.8	7.6	7.4	7.8	7.5	7.8	7.6	7.5	7.4	---	---
23	7.4	7.0	7.6	7.4	7.7	7.7	7.8	7.6	7.5	7.3	---	---
24	7.2	7.1	7.6	7.4	7.7	7.6	7.8	7.7	7.5	7.3	7.2	7.2
25	7.3	6.9	7.6	7.4	7.8	7.7	7.8	7.8	7.6	7.4	7.2	7.1
26	7.1	6.8	7.5	7.4	7.6	7.5	7.8	7.7	7.7	7.6	7.2	7.0
27	7.3	6.8	7.5	7.4	7.6	7.4	7.7	7.7	7.7	7.4	7.3	7.0
28	7.0	6.8	7.5	7.4	7.6	7.5	7.7	7.6	8.0	7.4	7.0	6.9
29	7.1	6.9	7.4	7.4	7.6	7.4	7.7	7.6	8.2	7.5	7.1	6.9
30	7.1	7.0	7.4	7.3	7.6	7.5	7.7	7.6	8.2	7.5	7.0	6.8
31	---	---	7.3	7.1	---	---	7.7	7.7	8.1	7.5	---	---
MONTH	7.7	6.7	7.8	6.8	7.8	7.0	7.8	7.2	8.2	6.9	8.2	6.8
YEAR	8.2	6.6										

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.7	6.6	7.7	7.4	---	---	---	---	---	---	---	---
2	---	---	7.8	7.4	---	---	---	---	---	---	---	---
3	---	---	7.9	7.5	---	---	---	---	---	---	---	---
4	---	---	7.9	7.4	---	---	---	---	---	---	---	---
5	---	---	8.0	7.3	---	---	---	---	---	---	---	---
6	---	---	7.7	7.4	---	---	---	---	---	---	---	---
7	---	---	7.7	7.3	---	---	---	---	---	---	---	---
8	---	---	7.6	7.3	---	---	---	---	---	---	---	---
9	---	---	7.4	7.1	---	---	---	---	---	---	---	---
10	---	---	7.2	7.2	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	7.3	7.1	---	---	---	---	---	---	---	---	---	---
26	7.3	7.1	---	---	---	---	---	---	---	---	---	---
27	7.4	7.2	---	---	---	---	---	---	---	---	---	---
28	7.6	7.4	---	---	---	---	---	---	---	---	---	---
29	7.6	7.4	---	---	---	---	---	---	---	---	---	---
30	7.6	7.3	---	---	---	---	---	---	---	---	---	---
31	7.6	7.3	---	---	---	---	---	---	---	---	---	---
MONTH	7.6	6.6	8.0	7.1	---	---	---	---	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	7.7	7.5	7.3	7.2	7.9	7.8	7.9	7.8	8.4	8.3
2	---	---	7.6	7.5	7.6	7.1	7.9	7.8	7.8	7.8	8.5	8.3
3	---	---	7.4	7.3	7.5	7.2	7.7	7.6	7.8	7.5	8.5	8.3
4	---	---	7.4	7.3	7.5	7.3	7.8	7.7	7.6	7.5	8.4	8.3
5	---	---	7.4	7.2	7.3	7.1	7.7	7.7	7.6	7.5	8.3	8.1
6	---	---	7.4	7.3	7.3	7.2	7.7	7.6	7.6	7.4	8.4	8.2
7	---	---	7.5	7.4	7.5	7.3	7.8	7.6	7.4	7.3	8.3	8.2
8	---	---	7.6	7.3	7.8	7.3	7.7	7.7	7.5	7.4	8.3	8.1
9	---	---	7.5	7.3	8.0	7.5	7.7	7.6	7.5	7.4	8.0	7.7
10	---	---	7.6	7.3	7.9	7.7	7.7	7.6	7.3	7.3	7.7	7.6
11	---	---	7.5	7.3	7.8	7.7	7.8	7.6	7.5	7.3	7.9	7.7
12	---	---	7.5	7.4	7.8	7.7	7.7	7.7	7.4	7.4	8.0	7.8
13	---	---	7.6	7.4	7.8	7.7	7.7	7.6	7.4	7.2	8.1	7.9
14	---	---	7.6	7.4	7.8	7.7	7.8	7.6	7.3	7.1	8.1	8.1
15	---	---	7.7	7.4	7.8	7.6	7.8	7.7	7.3	7.2	8.6	8.1
16	---	---	8.1	7.5	7.8	7.6	7.8	7.7	7.3	7.1	8.2	8.1
17	---	---	7.7	7.5	7.8	7.7	7.8	7.7	7.4	7.1	8.2	7.9
18	---	---	7.7	7.5	7.9	7.7	7.9	7.8	7.6	7.3	7.7	7.3
19	---	---	7.6	7.5	7.9	7.8	8.0	7.8	7.6	7.4	7.5	7.4
20	---	---	7.6	7.5	8.0	7.8	7.9	7.8	7.7	7.5	---	---
21	---	---	7.7	7.5	8.0	7.9	7.9	7.8	7.6	7.5	---	---
22	---	---	7.6	7.5	8.0	7.9	7.9	7.8	7.7	7.5	---	---
23	---	---	7.6	7.5	7.9	7.9	8.0	7.8	7.7	7.6	---	---
24	---	---	7.6	7.5	8.0	7.8	8.0	7.9	7.8	7.7	7.5	7.4
25	---	---	7.6	7.5	8.0	8.0	8.0	7.9	7.9	7.7	7.6	7.5
26	---	---	7.6	7.5	7.9	7.8	8.0	7.9	8.0	7.8	7.5	7.4
27	---	---	7.6	7.4	8.0	7.7	7.9	7.8	8.4	7.8	7.6	7.4
28	---	---	7.6	7.5	7.9	7.8	8.0	7.8	8.2	8.1	7.4	7.3
29	---	---	7.6	7.5	7.8	7.8	7.9	7.7	8.4	8.1	7.4	7.3
30	7.6	7.2	7.6	7.5	8.0	7.8	7.9	7.7	8.4	8.3	7.3	7.1
31	---	---	7.5	7.4	---	---	7.9	7.8	8.5	8.4	---	---
MONTH	7.6	7.2	8.1	7.2	8.0	7.1	8.0	7.6	8.5	7.1	8.6	7.1
YEAR	8.6	6.6										

03400798 MARTINS FORK LAKE AT MARTINS FORK DAM NEAR SMITH, 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	23.0	21.7	22.6	16.1	15.8	15.9	---	---	---	---	---	---
2	---	---	---	16.0	15.8	15.9	---	---	---	---	---	---
3	---	---	---	16.0	15.8	15.9	---	---	---	---	---	---
4	---	---	---	16.0	15.8	15.9	---	---	---	---	---	---
5	---	---	---	16.0	15.8	15.9	---	---	---	---	---	---
6	---	---	---	16.1	15.9	16.0	---	---	---	---	---	---
7	---	---	---	16.1	16.0	16.0	---	---	---	---	---	---
8	---	---	---	16.2	16.1	16.1	---	---	---	---	---	---
9	---	---	---	16.2	16.0	16.1	---	---	---	---	---	---
10	---	---	---	15.9	15.8	15.8	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	17.2	16.9	17.0	---	---	---	---	---	---	---	---	---
26	17.1	16.7	16.8	---	---	---	---	---	---	---	---	---
27	17.0	16.5	16.7	---	---	---	---	---	---	---	---	---
28	17.1	16.9	17.0	---	---	---	---	---	---	---	---	---
29	16.7	16.4	16.6	---	---	---	---	---	---	---	---	---
30	16.8	16.0	16.3	---	---	---	---	---	---	---	---	---
31	16.2	15.9	16.0	---	---	---	---	---	---	---	---	---
MONTH	23.0	15.9	17.4	16.2	15.8	15.9	---	---	---	---	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	9.7	9.4	9.6	12.1	11.8	11.9
2	---	---	---	---	---	---	10.2	9.5	9.9	12.6	12.0	12.3
3	---	---	---	---	---	---	10.4	9.9	10.2	12.9	12.4	12.6
4	---	---	---	---	---	---	10.7	10.1	10.4	13.3	12.7	13.0
5	---	---	---	---	---	---	10.7	10.4	10.5	13.6	12.8	13.2
6	---	---	---	---	---	---	10.7	10.2	10.4	13.3	12.8	13.0
7	---	---	---	---	---	---	10.5	10.2	10.3	13.2	13.1	13.1
8	---	---	---	---	---	---	10.2	10.1	10.2	13.4	12.9	13.2
9	---	---	---	---	---	---	10.2	10.1	10.2	13.5	13.3	13.4
10	---	---	---	---	---	---	10.2	10.1	10.1	13.8	13.4	13.6
11	---	---	---	---	---	---	10.2	10.1	10.1	13.9	13.6	13.8
12	---	---	---	---	---	---	10.1	10.1	10.1	14.4	13.7	14.0
13	---	---	---	---	---	---	10.1	10.1	10.1	14.6	14.1	14.4
14	---	---	---	---	---	---	10.3	10.2	10.2	14.7	14.6	14.6
15	---	---	---	---	---	---	10.8	10.3	10.5	15.4	14.8	15.0
16	---	---	---	---	---	---	11.0	10.6	10.7	15.5	14.9	15.2
17	---	---	---	---	---	---	10.9	10.6	10.7	15.6	14.9	15.3
18	---	---	---	---	---	---	10.7	10.5	10.6	15.2	15.0	15.0
19	---	---	---	---	---	---	10.9	10.7	10.8	15.2	14.9	15.1
20	---	---	---	---	---	---	11.1	10.8	10.9	15.2	15.0	15.1
21	---	---	---	---	---	---	10.9	10.8	10.9	15.5	15.1	15.3
22	---	---	---	---	---	---	11.0	10.8	10.9	15.7	15.4	15.6
23	---	---	---	---	---	---	11.1	10.9	11.0	16.1	15.6	15.8
24	---	---	---	---	---	---	11.0	11.0	11.0	16.1	15.8	16.0
25	---	---	---	---	---	---	11.0	11.0	11.0	16.2	15.8	16.0
26	---	---	---	---	---	---	11.1	11.0	11.1	15.7	15.4	15.6
27	---	---	---	---	---	---	11.2	11.1	11.1	15.4	15.4	15.4
28	---	---	---	---	---	---	11.3	11.2	11.2	15.5	15.5	15.5
29	---	---	---	---	---	---	11.6	11.2	11.4	15.8	15.5	15.7
30	---	---	---	9.2	8.9	9.1	11.9	11.6	11.8	16.0	15.8	15.8
31	---	---	---	9.6	9.1	9.3	---	---	---	18.1	15.9	16.9
MONTH	---	---	---	9.6	8.9	9.2	11.9	9.4	10.6	18.1	11.8	14.5

03400800 MARTINS FORK NEAR SMITH, KY

LOCATION.--Lat 36°45'08", long 83°15'27", Harlan County, Hydrologic Unit 05130101, on left bank 150 ft downstream from State Highway 987 bridge, 0.3 mi downstream from Martins Fork Dam, 0.7 mi downstream from Crane Creek, 1.0 mi north of Smith, and at mile 15.3.

DRAINAGE AREA.--55.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1968-71, and annual maximums, water years 1968-70. April 1971 to Sept. 30, 2004 (discontinued).

GAGE.--Water-stage recorder with telemetry. Datum of gage is 1,259.00 ft above NGVD of 1929. July 25, 1967 to Apr. 9, 1971, crest-stage gage at site 30 ft downstream at same datum, and Apr. 10, 1971 to Sept. 30, 1977, water-stage recorder at site 0.8 mi downstream at same datum.

REMARKS.--Records good. Flow regulated by Martins Fork Dam (station 03400798) beginning January 1979.

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

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

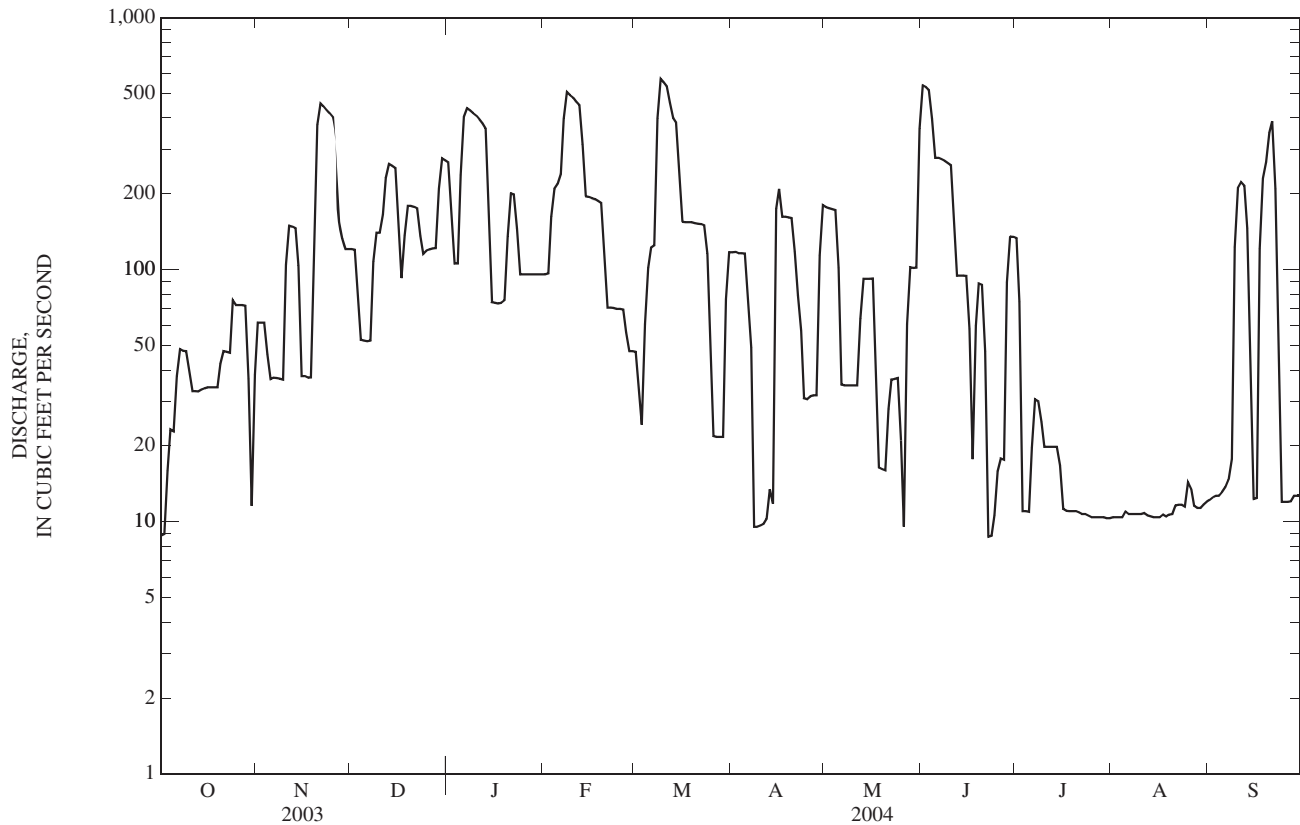
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	62	121	266	96	47	117	177	538	133	10	12
2	8.9	62	120	177	97	34	117	176	529	74	10	12
3	16	62	77	106	162	24	116	174	516	11	10	13
4	23	46	53	106	209	61	116	172	396	11	10	13
5	23	37	52	237	218	102	116	102	277	11	11	13
6	38	37	52	404	239	122	77	35	277	20	11	14
7	48	37	52	436	397	125	49	35	274	31	11	15
8	48	37	107	428	507	399	9.6	35	271	30	11	18
9	48	37	140	418	493	572	9.6	35	265	25	11	123
10	39	104	140	408	481	555	9.7	35	260	20	11	211
11	33	150	165	394	465	535	9.8	35	164	20	11	222
12	33	148	231	380	450	459	10	64	95	20	11	215
13	33	146	263	363	314	400	13	92	95	20	11	146
14	33	104	258	181	196	384	12	92	95	20	10	54
15	34	38	253	74	195	257	174	92	95	17	10	12
16	34	38	161	74	192	155	209	92	58	11	10	12
17	34	37	93	73	190	154	162	46	18	11	11	121
18	34	37	137	74	187	154	162	16	60	11	10	230
19	34	166	179	76	184	154	161	16	88	11	11	267
20	42	375	179	136	120	153	160	16	87	11	11	348
21	48	456	178	201	71	152	118	28	47	11	12	388
22	47	445	175	199	71	151	79	37	8.7	11	12	209
23	47	430	136	145	70	150	57	37	8.8	11	12	46
24	76	416	115	96	70	116	31	37	11	11	11	12
25	72	403	119	96	70	46	31	21	16	10	14	12
26	72	261	120	96	69	22	31	9.5	18	10	14	12
27	72	154	121	96	56	22	32	61	18	10	12	12
28	72	133	122	96	48	22	32	102	89	10	11	13
29	37	121	210	96	48	22	114	102	135	10	11	13
30	12	121	276	96	---	76	180	102	135	10	12	13
31	38	---	271	96	---	117	---	363	---	10	12	---
TOTAL	1,237.7	4,700	4,676	6,124	5,965	5,742	2,514.7	2,436.5	4,944.5	632	345	2,801
MEAN	39.9	157	151	198	206	185	83.8	78.6	165	20.4	11.1	93.4
MAX	76	456	276	436	507	572	209	363	538	133	14	388
MIN	8.8	37	52	73	48	22	9.6	9.5	8.7	10	10	12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2004, BY WATER YEAR (WY)

MEAN	48.8	104	144	173	208	200	131	120	74.1	25.8	29.7	27.1
MAX	181	226	452	357	481	413	428	322	267	75.3	117	117
(WY)	(1990)	(1997)	(1992)	(1982)	(1994)	(2002)	(1998)	(1983)	(1989)	(1990)	(1996)	(1989)
MIN	11.0	28.9	16.4	10.1	66.9	33.5	12.4	36.7	12.5	9.34	9.43	9.49
(WY)	(1998)	(1981)	(1981)	(1981)	(1999)	(1988)	(1986)	(1987)	(1988)	(1988)	(1988)	(1984)

03400800 MARTINS FORK NEAR SMITH, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1980 - 2004	
ANNUAL TOTAL	53,722.5		42,118.4		107	
ANNUAL MEAN	147		115		173	
HIGHEST ANNUAL MEAN					58.0	
LOWEST ANNUAL MEAN					1,880	
HIGHEST DAILY MEAN	1,360	Feb 18	572	Mar 9	4.3	Mar 19, 2002
LOWEST DAILY MEAN	6.7	Jul 1	8.7	Jun 22	4.3	Mar 9, 2002
ANNUAL SEVEN-DAY MINIMUM	10	Aug 28	10	Jul 25	4.4	Mar 8, 2002
MAXIMUM PEAK FLOW			597	Mar 8	9,000	Apr 4, 1977
MAXIMUM PEAK STAGE			11.33	Mar 8	24.24	Apr 4, 1977
INSTANTANEOUS LOW FLOW					0.10	Oct 30, 1978
10 PERCENT EXCEEDS	447		277		292	
50 PERCENT EXCEEDS	67		72		46	
90 PERCENT EXCEEDS	11		11		11	



03400800 MARTINS FORK NEAR SMITH, KY

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971 to current water year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--October 1971 to current water year.

pH.--December 1979 to current water year.

WATER TEMPERATURES.--October 1971 to current water year.

DISSOLVED OXYGEN.--October 1971 to current water year.

INSTRUMENTATION.--Water-quality monitor with telemetry.

REMARKS.--

SPECIFIC CONDUCTANCE.--Records rated good.

pH.--Records rated good.

WATER TEMPERATURE.--Records rated good.

DISSOLVED OXYGEN.--Records rated good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--(water years 1972-77, 1980 to current water year) Maximum recorded, 561 microsiemens, Feb. 12, 1972; minimum recorded 49 microsiemens, Feb 26, 1985.

pH.--Maximum recorded, 8.2 units, July 2, 1980; minimum recorded, 5.9 units, Jan. 6, 7, 1996, Sept. 20, 1998.

WATER TEMPERATURE.--Maximum recorded, 32.5°C, Aug. 6, 1982; minimum recorded, 0.0°C, on many days during the winter months.

DISSOLVED OXYGEN.--Maximum recorded, 15.6 mg/L, Jan. 20, 21, 1985; minimum recorded, 4.6 mg/L, Aug. 10, 1994.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 162 microsiemens, Sep. 8; minimum recorded 94 microsiemens, Feb. 10.

pH.--Maximum recorded, 7.5 units, Dec. 15; minimum recorded, 6.3 units, Jan. 25, Mar. 28-31.

WATER TEMPERATURE.--Maximum recorded, 27.6°C, July 21; minimum recorded, 3.6°C, Jan. 23

DISSOLVED OXYGEN.--Maximum recorded, 15.5 mg/L, Apr. 8; minimum recorded, 3.5 mg/L Sep. 9.

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

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 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	150	147	148	146	141	145	129	128	129	114	111	113
2	151	149	150	147	144	145	129	126	128	113	111	112
3	151	147	149	147	144	145	130	127	129	113	109	110
4	150	147	148	147	143	145	130	127	129	113	109	111
5	148	146	147	147	143	146	130	127	128	118	113	116
6	147	146	146	150	144	148	127	126	127	120	117	118
7	147	145	146	148	146	147	127	125	126	121	118	119
8	148	146	147	153	147	148	127	125	126	120	116	118
9	148	147	148	156	151	153	126	123	124	119	117	118
10	149	148	149	153	142	148	125	122	123	121	114	118
11	150	149	149	147	141	145	122	119	121	114	109	111
12	150	149	150	147	142	146	122	119	120	110	104	107
13	150	149	150	145	144	145	124	117	121	106	104	105
14	150	141	149	144	139	142	124	115	120	109	106	108
15	155	149	150	147	138	142	115	111	113	109	108	108
16	155	150	152	141	138	140	113	111	112	111	109	110
17	150	144	149	141	137	139	115	113	114	112	111	111
18	146	142	144	139	135	138	116	114	115	113	111	112
19	145	141	143	149	135	142	117	115	116	114	111	112
20	146	142	144	149	134	140	115	113	115	115	113	114
21	148	145	147	141	118	125	116	113	114	115	111	114
22	148	147	147	126	113	116	116	114	115	111	106	109
23	148	146	147	122	107	115	117	114	115	114	106	108
24	149	148	148	117	108	114	116	115	115	114	108	113
25	150	148	149	121	114	116	116	115	115	115	113	114
26	149	148	149	122	116	120	116	112	114	115	113	114
27	149	148	149	123	119	120	112	106	107	116	114	115
28	151	149	150	126	123	125	108	102	105	115	114	114
29	155	151	153	128	124	126	112	106	109	117	115	116
30	154	150	152	129	127	128	107	103	104	117	116	117
31	150	141	146	---	---	---	111	106	109	116	114	115
MONTH	155	141	148	156	107	136	130	102	118	121	104	113

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	116	115	116	122	117	120	106	104	105	117	116	116
2	117	115	116	125	117	122	114	105	110	116	112	115
3	117	114	115	123	121	122	114	108	111	114	107	111
4	124	113	117	122	118	120	113	106	108	111	107	109
5	125	117	121	119	113	115	108	107	107	112	104	109
6	121	112	115	117	112	115	120	107	110	111	107	110
7	119	98	108	118	103	110	122	113	118	109	106	108
8	102	98	100	118	106	112	125	122	124	109	105	107
9	104	97	99	113	102	106	126	123	124	106	104	104
10	99	94	96	117	99	104	123	120	122	105	103	104
11	107	95	100	109	96	102	121	118	119	106	104	105
12	116	98	104	106	96	101	120	117	119	105	103	104
13	117	97	107	103	99	100	121	115	118	107	105	106
14	109	97	104	105	101	103	124	118	121	109	106	107
15	115	108	113	102	98	100	119	112	116	112	108	109
16	121	105	110	106	98	101	112	107	110	114	109	112
17	107	105	106	105	100	102	113	105	110	116	113	115
18	107	106	107	108	101	104	113	106	111	116	115	116
19	109	107	108	107	100	104	115	112	114	117	116	116
20	113	109	111	106	101	101	115	113	114	117	116	116
21	113	112	113	108	101	104	114	113	113	118	116	117
22	114	113	113	103	101	102	114	112	113	118	116	117
23	116	114	114	104	100	101	115	111	113	119	117	118
24	118	115	116	109	104	106	115	114	114	120	118	119
25	118	116	117	109	105	108	115	114	115	121	119	120
26	117	116	116	106	104	105	114	113	114	123	117	120
27	119	117	117	105	103	104	115	114	114	---	---	---
28	119	117	118	105	104	104	115	114	115	123	120	121
29	120	117	118	105	104	105	116	114	115	123	121	122
30	---	---	---	107	102	104	117	115	116	127	123	124
31	---	---	---	106	103	105	---	---	---	129	116	126
MONTH	125	94	111	125	96	107	126	104	114	129	103	113
	JUNE			JULY			AUGUST			SEPTEMBER		
1	118	112	115	130	128	129	140	137	139	155	151	154
2	124	117	119	130	120	126	140	136	138	155	154	155
3	124	115	118	127	125	126	141	138	139	156	154	155
4	120	117	119	127	124	126	141	138	140	156	153	155
5	119	116	118	129	123	126	141	135	140	157	155	156
6	122	114	118	138	124	131	142	139	141	157	154	156
7	116	113	115	138	135	137	142	139	141	156	150	154
8	119	115	117	141	136	138	142	139	141	162	151	158
9	119	116	117	141	137	138	142	139	141	161	143	153
10	119	117	118	141	138	140	141	138	140	143	132	137
11	121	117	119	141	139	140	141	139	140	133	124	128
12	121	120	120	143	139	140	143	140	142	130	124	126
13	125	120	122	143	133	138	145	143	143	131	124	127
14	125	122	124	134	132	133	144	142	143	131	126	129
15	126	123	124	134	131	132	145	142	144	130	127	128
16	127	125	125	133	130	132	146	143	145	130	127	129
17	---	---	---	132	130	132	147	144	145	134	125	130
18	127	125	126	133	130	132	147	144	146	127	109	119
19	128	125	127	133	129	131	149	146	147	115	108	111
20	128	126	127	133	130	131	150	147	148	119	110	113
21	129	127	128	136	132	133	150	144	148	120	115	117
22	130	128	129	137	134	136	151	147	149	120	117	119
23	130	126	128	137	134	136	150	147	149	122	117	118
24	129	128	129	138	135	136	150	148	149	119	116	117
25	131	123	129	138	134	137	150	147	149	120	116	118
26	131	129	130	138	136	137	151	148	149	121	116	118
27	130	128	129	139	137	138	152	149	150	122	118	119
28	131	129	130	140	137	139	152	150	151	122	117	120
29	130	127	129	141	137	139	153	150	151	123	120	122
30	130	127	128	140	138	139	153	150	152	122	120	121
31	---	---	---	141	135	139	154	152	153	---	---	---
MONTH	---	---	---	143	120	134	154	135	145	162	108	132
YEAR	---	---	---									

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.2	7.0	7.1	7.0	7.4	7.1	7.0	6.5	7.0	6.7	6.7	6.5
2	7.2	7.1	7.1	7.0	7.3	7.1	6.9	6.6	7.0	6.5	6.8	6.6
3	7.3	7.1	7.1	7.0	7.1	7.0	7.1	6.8	7.1	6.5	6.8	6.6
4	7.2	7.0	7.1	7.0	7.1	6.8	7.0	6.9	7.1	6.8	6.8	6.6
5	7.2	7.0	7.1	6.9	6.9	6.8	7.2	6.9	7.1	6.5	7.1	6.7
6	7.2	7.0	7.1	6.9	7.3	6.8	7.2	7.1	6.9	6.6	7.0	6.7
7	7.2	6.9	7.2	7.0	7.2	7.0	7.1	6.9	7.0	6.6	6.9	6.6
8	7.1	6.9	7.2	7.0	7.3	6.8	6.9	6.8	7.1	6.8	6.9	6.8
9	7.1	6.9	7.2	7.1	7.2	6.9	6.8	6.6	7.1	6.8	6.9	6.5
10	7.2	6.9	7.2	7.1	7.0	6.7	6.8	6.7	6.9	6.5	6.8	6.7
11	7.2	6.8	7.3	7.0	7.0	6.8	6.8	6.6	7.0	6.7	6.8	6.6
12	7.1	6.8	7.3	7.2	7.1	6.8	6.8	6.6	7.0	6.5	6.8	6.7
13	7.1	6.8	7.5	7.3	7.0	6.6	6.8	6.4	7.0	6.8	6.8	6.6
14	7.2	6.8	7.4	7.1	7.1	6.6	6.8	6.4	6.9	6.7	6.7	6.5
15	7.1	6.7	7.1	6.9	7.5	6.5	6.9	6.5	6.9	6.4	6.5	6.4
16	7.0	6.8	7.1	6.9	7.3	6.8	6.8	6.7	6.8	6.6	6.8	6.4
17	7.0	6.9	7.0	6.8	7.1	6.8	6.8	6.5	6.7	6.4	7.0	6.6
18	7.1	6.9	7.5	6.8	7.1	6.7	7.0	6.5	6.9	6.5	6.9	6.6
19	7.1	6.9	7.2	6.9	7.0	6.7	6.9	6.7	6.9	6.6	6.9	6.6
20	7.1	6.9	7.4	7.1	7.0	6.9	6.7	6.7	6.9	6.6	6.9	6.5
21	7.3	6.9	7.2	6.9	7.1	6.8	6.7	6.6	6.9	6.8	6.9	6.8
22	7.2	7.1	7.2	6.8	7.2	6.6	6.8	6.6	6.9	6.7	6.9	6.7
23	7.3	7.1	7.4	6.8	6.9	6.6	6.6	6.5	6.8	6.6	6.8	6.6
24	7.3	7.1	7.4	7.0	7.1	6.7	6.8	6.6	6.8	6.6	6.7	6.4
25	7.3	7.1	7.2	7.1	7.1	6.8	6.8	6.3	6.8	6.7	6.7	6.5
26	7.3	7.2	7.3	7.1	7.2	6.8	6.8	6.6	6.7	6.4	6.7	6.5
27	7.3	7.2	7.2	6.9	7.1	6.6	6.9	6.5	6.8	6.4	6.6	6.5
28	7.4	7.1	7.3	7.0	7.0	6.5	7.0	6.7	6.8	6.6	6.6	6.3
29	7.4	7.2	7.3	7.2	6.9	6.6	7.1	6.8	6.8	6.6	6.6	6.3
30	7.3	7.1	7.3	7.1	6.9	6.6	7.1	6.6	---	---	6.7	6.3
31	7.2	7.0	---	---	7.1	6.5	6.9	6.8	---	---	6.8	6.5
MONTH	7.4	6.7	7.5	6.8	7.5	6.5	7.2	6.3	7.1	6.4	7.1	6.3
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.9	6.5	6.9	6.9	7.1	7.0	6.7	6.6	7.0	6.9	7.1	7.0
2	6.8	6.6	7.0	6.8	7.1	7.1	6.9	6.7	6.9	6.9	7.1	7.0
3	6.9	6.6	6.9	6.8	7.2	7.1	6.9	6.8	7.0	6.9	7.1	7.0
4	7.0	6.8	7.0	6.8	7.2	7.1	6.9	6.8	6.9	6.8	7.0	7.0
5	6.9	6.8	7.0	6.9	7.2							

03400800 MARTINS FORK NEAR SMITH, 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	22.4	20.9	21.7	19.0	17.8	18.3	10.5	9.9	10.3	5.7	5.1	5.4
2	23.0	20.3	21.4	18.9	18.0	18.4	9.9	8.9	9.4	6.1	5.5	5.8
3	22.5	19.9	21.2	18.9	17.9	18.2	9.0	8.6	8.8	7.4	6.1	6.7
4	22.4	21.2	21.7	19.4	17.8	18.5	8.7	8.6	8.6	8.6	7.4	8.1
5	22.6	21.0	21.6	19.1	18.2	18.7	8.7	8.3	8.5	8.8	8.3	8.5
6	22.2	21.0	21.4	19.2	18.6	18.8	8.3	8.0	8.2	8.3	7.6	7.9
7	22.2	21.1	21.4	18.9	18.2	18.6	8.2	7.8	7.9	7.8	7.4	7.6
8	22.2	21.1	21.5	19.0	17.8	18.3	8.0	7.7	7.8	7.5	7.2	7.4
9	22.1	21.2	21.5	18.8	17.5	18.0	7.8	7.4	7.6	7.3	6.8	7.0
10	22.2	21.2	21.7	18.1	15.6	16.8	7.9	7.6	7.7	6.9	6.2	6.6
11	22.6	21.2	21.7	16.4	15.6	16.1	7.6	7.1	7.3	6.2	5.8	6.0
12	22.6	21.4	21.8	16.4	16.1	16.3	7.3	6.8	7.1	5.9	5.6	5.8
13	23.1	21.6	22.3	16.2	15.0	15.6	7.2	6.9	7.0	5.9	5.3	5.6
14	22.5	21.6	22.1	15.0	14.2	14.6	6.9	6.6	6.8	6.1	5.4	5.8
15	22.4	20.6	21.4	14.2	13.6	13.9	7.3	6.5	6.8	6.3	5.9	6.0
16	22.0	20.6	21.2	13.7	13.5	13.6	7.2	6.8	7.0	6.1	5.7	5.9
17	21.0	20.5	20.7	13.7	13.1	13.4	7.2	6.7	6.9	6.4	6.0	6.2
18	21.2	19.8	20.5	16.0	13.0	13.5	6.7	6.4	6.6	6.3	5.9	6.1
19	21.1	19.7	20.3	14.0	13.1	13.5	6.4	5.8	6.1	5.9	5.2	5.5
20	21.2	19.9	20.4	14.2	13.8	14.0	5.8	5.4	5.7	5.3	5.0	5.1
21	21.4	19.7	20.5	14.0	13.6	13.8	5.5	5.1	5.3	5.0	4.4	4.9
22	20.9	19.8	20.3	14.0	13.4	13.7	5.3	4.9	5.1	4.6	3.9	4.3
23	20.3	19.4	19.8	14.5	13.2	13.7	5.4	4.7	5.1	4.5	3.6	4.1
24	20.2	18.8	19.6	13.9	13.2	13.6	5.4	5.0	5.2	4.6	4.1	4.4
25	20.1	19.1	19.6	13.3	12.7	13.0	5.1	4.9	5.0	4.6	4.4	4.5
26	19.5	19.0	19.3	12.7	12.1	12.5	5.3	4.9	5.1	5.2	4.6	5.0
27	19.3	18.7	19.0	12.1	11.6	11.8	5.7	5.2	5.4	5.2	4.7	5.0
28	19.2	18.6	18.8	11.8	11.4	11.6	5.7	5.3	5.4	4.7	4.1	4.3
29	20.3	18.3	19.0	11.4	10.7	11.0	5.4	5.2	5.3	4.7	4.1	4.4
30	20.7	17.6	18.9	10.8	10.4	10.6	5.5	4.9	5.3	4.5	3.9	4.3
31	19.7	17.8	18.4	---	---	---	5.6	5.2	5.4	4.6	3.8	4.2
MONTH	23.1	17.6	20.7	19.4	10.4	15.1	10.5	4.7	6.8	8.8	3.6	5.8
FEBRUARY			MARCH			APRIL			MAY			
1	4.8	4.1	4.4	8.0	6.9	7.4	11.3	10.3	10.7	15.0	14.1	14.6
2	4.8	4.4	4.6	8.3	7.5	7.9	11.6	10.4	11.2	15.6	14.6	14.9
3	4.6	4.3	4.5	8.8	7.5	7.8	12.0	11.1	11.6	16.1	14.9	15.5
4	4.6	4.1	4.4	8.8	7.4	8.0	11.6	11.2	11.4	16.8	15.4	16.1
5	4.8	4.5	4.6	12.6	8.1	10.8	12.1	11.2	11.6	18.0	15.9	16.8
6	5.1	4.7	4.9	11.6	9.4	10.2	20.6	11.2	13.3	16.3	14.5	15.7
7	5.2	4.6	4.9	10.7	9.2	10.0	17.6	11.4	13.9	16.4	14.5	15.2
8	5.7	5.1	5.4	10.5	9.2	9.9	19.2	15.0	17.5	16.6	14.3	15.2
9	5.9	5.6	5.7	10.2	9.6	10	20.9	16.0	18.4	16.8	14.6	15.4
10	5.8	5.6	5.7	9.9	9.2	9.5	19.6	16.2	18.1	17.0	14.8	15.6
11	5.9	5.5	5.7	10.0	9.3	9.7	18.5	17.7	18.1	16.7	15.1	15.7
12	5.8	5.6	5.7	9.9	9.3	9.6	18.1	17.3	17.7	16.6	15.2	15.8
13	6.3	5.4	5.9	9.9	9.1	9.4	18.8	16.6	17.4	16.8	15.7	16.2
14	6.1	5.9	6.0	10.3	9.3	9.6	17.1	12.2	15.0	16.9	16.1	16.5
15	6.0	5.7	5.9	9.6	9.2	9.3	13.0	11.3	11.8	17.4	16.4	16.9
16	6.1	5.5	5.8	11.6	9.2	10.0	11.8	11.2	11.5	17.9	16.8	17.4
17	6.0	5.8	6.0	10.1	9.2	9.7	12.0	11.1	11.5	20.0	16.9	18.1
18	6.9	5.8	6.3	10.0	9.6	9.8	12.1	11.1	11.6	20.1	16.9	17.9
19	6.8	6.1	6.5	10.0	9.4	9.7	12.2	11.3	11.7	19.2	16.9	17.7
20	6.8	6.2	6.6	12.2	9.4	10.6	12.1	11.5	11.8	20.2	17.0	18.1
21	6.9	6.5	6.7	11.3	9.7	10.2	12.6	11.5	11.9	18.5	17.1	17.7
22	7.4	6.5	6.9	10.3	9.4	9.9	12.4	11.7	12.0	19.4	17.3	18.1
23	7.2	6.6	6.9	10.9	9.2	10.0	13.0	11.7	12.1	19.7	17.5	18.3
24	7.4	6.7	7.1	11.1	9.8	10.3	14.0	11.9	12.6	19.0	17.6	18.2
25	7.2	6.6	6.8	11.9	9.5	10.4	13.3	11.9	12.4	21.9	17.9	18.9
26	7.0	6.8	6.8	12.0	9.3	10.4	12.8	11.6	12.1	21.9	19.2	20.0
27	7.6	6.6	6.9	10.9	9.6	10.0	14.0	11.6	12.5	---	---	---
28	7.9	6.6	7.1	11.5	9.4	10.1	15.0	12.7	13.7	20.4	20.1	20.2
29	7.9	6.7	7.1	11.9	9.5	10.4	14.0	12.9	13.5	21.3	20.1	20.6
30	---	---	---	11.0	9.8	10.2	14.6	13.7	14.0	21.4	20.6	20.9
31	---	---	---	10.9	10.1	10.5	---	---	---	21.5	19.9	20.7
MONTH	7.9	4.1	5.9	12.6	6.9	9.7	20.9	10.3	13.4	---	---	---

03400800 MARTINS FORK NEAR SMITH, 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	7.2	7.0	7.1	---	---	---	---	---	---	12.7	12.4	12.6
2	7.3	7.0	7.1	---	---	---	11.3	11.0	11.2	12.6	12.3	12.4
3	7.6	7.3	7.5	---	---	---	11.3	11.0	11.2	12.4	12.0	12.2
4	7.4	6.8	7.0	---	---	---	11.3	11.0	11.2	12.0	11.6	11.8
5	6.9	6.6	6.8	---	---	---	11.1	11.0	11.1	11.8	11.5	11.7
6	---	---	---	---	---	---	11.3	11.0	11.2	12.2	11.7	12.0
7	---	---	---	---	---	---	11.3	11.2	11.2	12.6	12.2	12.4
8	---	---	---	---	---	---	11.4	11.1	11.3	12.6	12.4	12.5
9	---	---	---	---	---	---	11.3	11.2	11.3	12.7	12.4	12.6
10	---	---	---	9.5	8.7	9.1	11.3	11.0	11.2	12.9	12.5	12.7
11	---	---	---	9.0	8.5	8.7	11.5	11.2	11.4	13.0	12.7	12.9
12	---	---	---	8.7	8.4	8.5	11.8	11.4	11.6	13.0	12.7	12.9
13	---	---	---	8.7	8.4	8.6	11.8	11.7	11.8	13.0	12.7	12.9
14	---	---	---	8.9	8.6	8.7	11.8	11.6	11.7	12.9	12.3	12.6
15	8.6	8.1	8.3	---	---	---	12.0	9.4	11.7	12.6	12.4	12.5
16	8.5	8.3	8.4	---	---	---	12.1	11.8	11.9	12.6	12.4	12.5
17	8.9	8.4	8.7	---	---	---	12.2	11.8	12.1	12.6	12.3	12.4
18	9.1	8.8	9.0	---	---	---	12.2	11.9	12.1	12.3	12.2	12.2
19	9.4	9.0	9.2	---	---	---	12.3	11.9	12.1	12.6	12.2	12.4
20	9.4	9.2	9.3	---	---	---	12.3	12.2	12.3	12.8	12.6	12.7
21	9.4	8.9	9.2	11.2	10.2	10.5	12.5	12.2	12.3	12.8	12.5	12.7
22	---	---	---	11.1	10.4	10.7	12.6	12.4	12.5	13.0	12.6	12.8
23	---	---	---	11.3	10.1	10.8	12.5	12.2	12.4	13.1	12.6	12.9
24	---	---	---	---	---	---	12.5	12.2	12.4	12.9	12.8	12.9
25	---	---	---	---	---	---	12.7	12.4	12.6	12.8	12.6	12.8
26	---	---	---	---	---	---	12.8	12.5	12.6	12.7	12.4	12.6
27	9.6	8.3	9.1	---	---	---	12.7	12.4	12.5	12.7	12.4	12.6
28	8.5	7.1	7.7	---	---	---	12.6	12.4	12.5	13.1	12.7	13.0
29	7.1	6.6	6.9	---	---	---	12.6	12.3	12.5	13.1	12.7	12.9
30	7.0	6.6	6.8	---	---	---	12.7	12.4	12.6	13.0	12.7	12.9
31	7.6	7.0	7.1	---	---	---	12.7	12.5	12.6	13.2	12.8	13.0
MONTH	---	---	---	---	---	---	---	---	---	13.2	11.5	12.6
FEBRUARY			MARCH			APRIL			MAY			
1	13.3	12.8	13.0	12.4	11.9	12.2	11.0	10.7	10.8	9.6	9.2	9.4
2	13.1	12.8	13.0	12.2	11.8	12.0	10.9	10.6	10.7	9.4	9.2	9.3
3	13.0	12.7	12.9	12.2	11.8	12.0	10.7	10.4	10.5	9.3	8.9	9.1
4	13.2	12.9	13.0	12.2	11.8	12.0	14.6	10.4	12.4	9.1	8.8	9.0
5	13.0	12.7	12.9	11.9	10.8	11.3	12.3	11.7	12.0	9.0	8.7	8.9
6	12.8	12.6	12.7	11.6	10.9	11.4	12.3	8.3	11.0	10.4	8.8	9.6
7	13.0	12.7	12.9	11.6	11.2	11.4	11.5	10.1	10.8	10.6	10.1	10.3
8	13.0	12.8	12.9	11.7	11.4	11.6	15.5	9.2	11.1	10.6	9.8	10.3
9	13.0	12.7	12.9	11.8	11.5	11.6	11.3	9.3	10.1	10.6	10.0	10.3
10	13.0	12.5	12.8	12.0	11.6	11.8	12.0	9.5	10.3	10.7	9.6	10.3
11	12.9	12.6	12.8	11.8	11.5	11.7	11.0	9.4	10.1	10.3	9.8	10.1
12	12.9	12.6	12.8	11.8	11.5	11.6	13.1	9.2	10.6	9.9	9.4	9.7
13	13.0	12.5	12.7	11.9	11.6	11.7	13.4	9.1	10.3	10.0	9.4	9.7
14	12.6	12.4	12.4	11.7	11.4	11.6	14.0	6.5	10.5	9.7	9.3	9.6
15	12.7	12.4	12.5	11.6	11.3	11.5	10.9	10.1	10.5	9.7	9.2	9.5
16	12.8	12.6	12.7	11.3	10.8	11.1	11.0	10.5	10.8	9.8	8.4	9.6
17	12.8	12.6	12.7	11.3	11.0	11.2	11.1	10.6	10.9	9.6	8.8	9.3
18	12.7	12.3	12.5	11.3	11.2	11.2	11.1	10.7	10.9	9.0	8.6	8.8
19	12.6	12.4	12.5	11.4	11.1	11.3	11.1	10.7	11.0	8.9	8.3	8.6
20	12.7	12.3	12.5	11.4	10.7	11.1	11.1	10.6	10.9	8.7	8.3	8.5
21	12.6	12.2	12.5	11.2	10.7	11.1	11.0	10.6	10.8	9.1	8.2	8.7
22	12.6	12.3	12.5	11.4	11.2	11.3	11.1	10.6	10.8	9.0	8.7	8.9
23	12.6	12.3	12.4	11.5	11.0	11.3	11.1	10.6	10.8	9.0	8.6	8.8
24	12.5	12.3	12.4	11.4	11.0	11.2	11.1	10.6	10.8	8.9	8.6	8.8
25	12.5	12.3	12.4	11.4	11.1	11.2	10.9	10.5	10.7	8.9	7.9	8.5
26	12.5	12.3	12.4	11.5	11.0	11.2	10.9	10.5	10.7	8.4	7.8	8.0
27	12.6	12.3	12.4	11.4	11.1	11.2	10.8	9.8	10.4	---	---	---
28	12.5	12.3	12.4	11.3	11.0	11.2	10.2	9.8	10	8.8	8.5	8.6
29	12.6	12.2	12.4	11.2	10.8	11.0	10.1	9.6	9.8	8.7	8.5	8.6
30	---	---	---	11.2	10.8	11.0	9.7	9.5	9.6	8.7	8.4	8.6
31	---	---	---	11.1	10.8	11.0	---	---	---	8.5	4.0	6.1
MONTH	13.3	12.2	12.7	12.4	10.7	11.4	15.5	6.5	10.7	---	---	---

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03401000 CUMBERLAND RIVER NEAR HARLAN, KY

LOCATION.--Lat 36°50'48", long 83°21'21", Harlan County, Hydrologic Unit 05130101, on right downstream side of bridge on State Highway 840 at Loyall, 1.6 mi upstream from Fourmile Branch, 1.8 mi west of Harlan, 2.3 mi downstream from confluence of Poor and Clover Forks, and at mile 691.9.

DRAINAGE AREA.--374 mi².

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

REVISED RECORDS.--WSP 953: 1940(M). WSP 1173: 1947(M).

GAGE.--Water-stage recorder with telemetry. Datum of gage is 1,139.10 ft above NGVD of 1929. Prior to Aug. 28, 1984, datum of gage 1.00 ft higher. Prior to Nov. 4, 1941, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,500 ft³/s, Mar. 6, May 31, gage height, 15.04 ft; minimum discharge, 76 ft³/s, Sept. 6, 7, gage height, 1.34 ft.

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	104	167	748	981	628	362	728	708	3,280	503	183	103
2	106	173	632	3,230	658	432	776	786	1,800	643	147	94
3	101	168	550	3,140	2,090	439	999	868	1,870	764	134	91
4	102	162	536	1,810	1,800	424	1,080	725	4,010	475	125	94
5	108	201	677	2,930	1,460	507	951	671	4,170	387	278	92
6	103	671	774	3,420	5,570	9,380	808	518	2,020	371	278	80
7	120	807	734	1,930	4,040	2,920	712	470	1,410	351	173	98
8	120	496	681	1,590	2,280	1,760	597	431	1,270	317	142	3,300
9	116	363	683	1,390	1,730	1,580	534	403	1,140	285	125	3,320
10	114	312	1,020	1,210	1,480	1,350	482	387	1,070	254	116	1,470
11	99	367	1,760	1,070	1,310	1,200	454	408	922	247	118	942
12	94	358	1,390	1,000	1,190	1,090	521	372	710	315	189	688
13	93	556	1,150	946	1,060	948	3,260	397	716	300	197	551
14	175	521	1,110	846	850	881	2,820	390	682	303	141	397
15	369	441	1,040	661	797	811	1,700	373	676	258	121	268
16	197	592	946	605	735	873	1,420	378	719	211	108	229
17	151	592	1,170	577	699	920	1,120	587	595	249	101	5,600
18	139	537	1,140	1,080	666	853	957	357	567	317	101	5,510
19	129	6,350	1,090	1,680	635	787	853	333	550	216	100	1,890
20	121	3,710	958	1,260	607	734	785	399	534	187	96	1,240
21	127	1,770	866	1,100	524	770	728	321	470	169	191	1,040
22	126	1,290	750	969	481	701	610	303	370	170	237	824
23	122	1,070	945	849	456	666	603	285	341	255	138	507
24	134	1,130	2,330	722	447	637	596	268	356	192	127	372
25	147	1,180	1,820	740	431	549	528	261	444	174	130	321
26	155	1,040	1,260	784	424	474	859	408	996	247	117	290
27	208	765	1,050	806	422	455	1,080	3,100	652	303	106	268
28	274	807	889	796	387	440	878	2,080	511	230	97	295
29	231	947	808	760	371	416	746	1,570	554	183	102	307
30	160	867	1,120	745	---	585	762	1,320	508	162	152	248
31	131	---	1,030	668	---	708	---	8,510	---	162	112	---
TOTAL	4,476	28,410	31,657	40,295	34,228	34,652	28,947	28,387	33,913	9,200	4,482	30,529
MEAN	144	947	1,021	1,300	1,180	1,118	965	916	1,130	297	145	1,018
MAX	369	6,350	2,330	3,420	5,570	9,380	3,260	8,510	4,170	764	278	5,600
MIN	93	162	536	577	371	362	454	261	341	162	96	80
CFSM	0.39	2.53	2.73	3.48	3.16	2.99	2.58	2.45	3.02	0.79	0.39	2.72
IN.	0.45	2.83	3.15	4.01	3.40	3.45	2.88	2.82	3.37	0.92	0.45	3.04

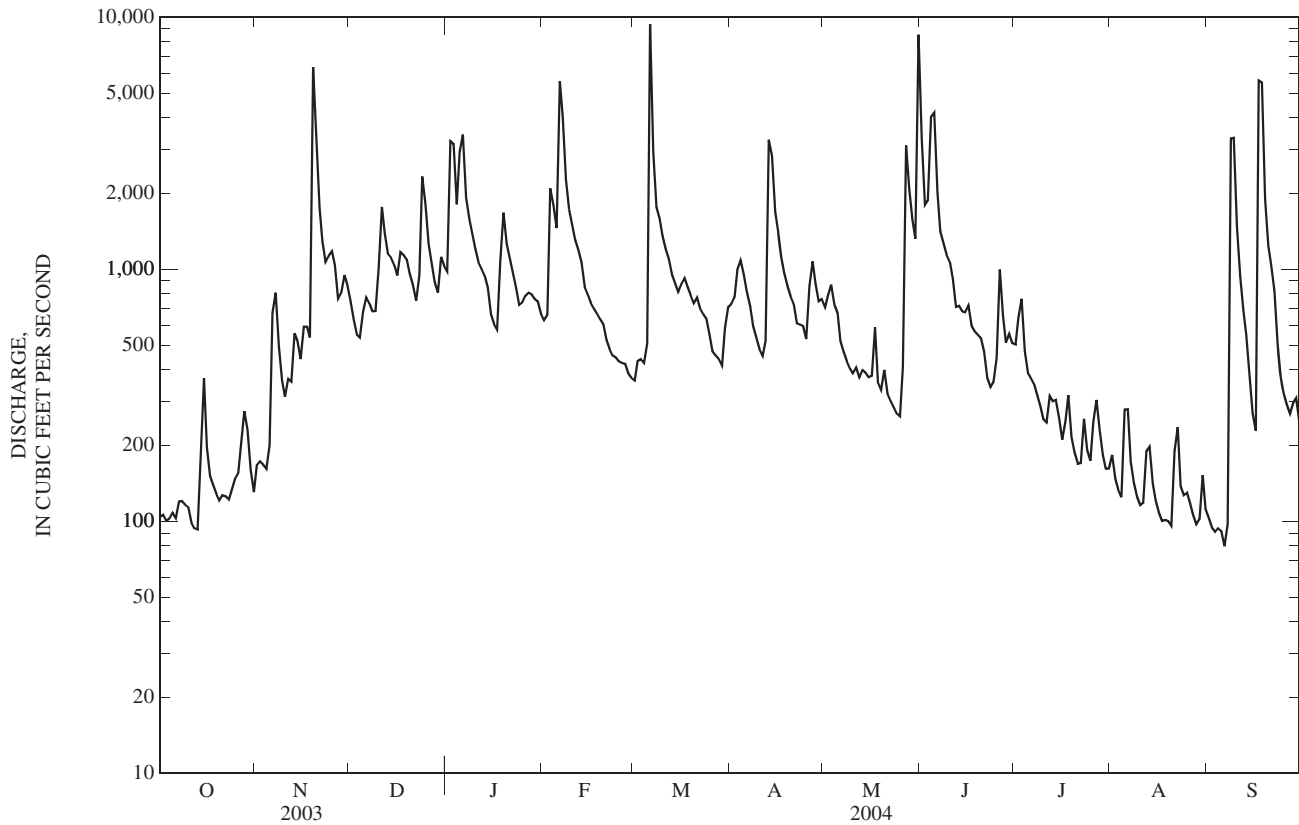
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2004, BY WATER YEAR (WY)

	MEAN	184	483	829	1,000	1,298	1,286	1,057	840	503	244	215	195
MAX	1,129	1,532	2,704	1,783	3,259	2,684	2,986	2,003	1,789	453	534	1,018	
(WY)	(1990)	(1997)	(1992)	(1994)	(1994)	(1994)	(1998)	(1984)	(1989)	(1991)	(1996)	(2004)	
MIN	30.0	51.1	88.9	63.5	554	334	211	330	96.1	57.3	52.7	38.3	
(WY)	(1998)	(1999)	(1981)	(1981)	(1988)	(1988)	(1986)	(1982)	(1988)	(1988)	(1988)	(1999)	

03401000 CUMBERLAND RIVER NEAR HARLAN, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1980 - 2004	
ANNUAL TOTAL	326,762		309,176		674	
ANNUAL MEAN	895		845		1,130	
HIGHEST ANNUAL MEAN					333	
LOWEST ANNUAL MEAN					21,300	
HIGHEST DAILY MEAN	16,000	Feb 16	9,380	Mar 6	16	Oct 9, 1997
LOWEST DAILY MEAN	93	Oct 13	80	Sep 6	17	Oct 4, 1997
ANNUAL SEVEN-DAY MINIMUM	104	Sep 30	93	Sep 1	64,500	Apr 5, 1977
MAXIMUM PEAK FLOW			15,500	Mar 6	30.20	Apr 5, 1977
MAXIMUM PEAK STAGE			15.04	Mar 6	3.0	Oct 9, 1953
INSTANTANEOUS LOW FLOW					1.80	
ANNUAL RUNOFF (CFSM)	2.39		2.26		24.50	
ANNUAL RUNOFF (INCHES)	32.50		30.75		1,500	
10 PERCENT EXCEEDS	1,760		1,740		370	
50 PERCENT EXCEEDS	536		586		69	
90 PERCENT EXCEEDS	137		125			

e Estimated



03402000 YELLOW CREEK NEAR MIDDLESBORO, KY

LOCATION.--Lat 36°40'05", long 83°41'19", Bell County, Hydrologic Unit 05130101, on left bank 35 ft downstream from bridge on U.S. Highway 25E, 1.2 mi downstream from Browne Branch, 4.6 mi north of Middlesboro, and at mile 11.4.

DRAINAGE AREA.--60.6 mi². See WRD-KY-98-1 for history of changes.

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

REVISED RECORDS.--WSP 953: 1941(M). WSP 973: 1942(M). WSP 1436: Drainage area. WRD KY 1969: 1965(M), 1967(M).

GAGE.--Water-stage recorder with telemetry and crest-stage gages. Datum of gage is 1,097.99 ft above NGVD of 1929. See WDR KY-90-1 for history of changes prior to Sept. 30, 1973.

REMARKS.--Records good. Occasional regulation from Fern Lake.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 6	1100	*5,490	*17.17	Sep 8	0830	5,120	16.50
Mar 6	0600	5,100	16.48	Sep 17	1600	4,670	15.70

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

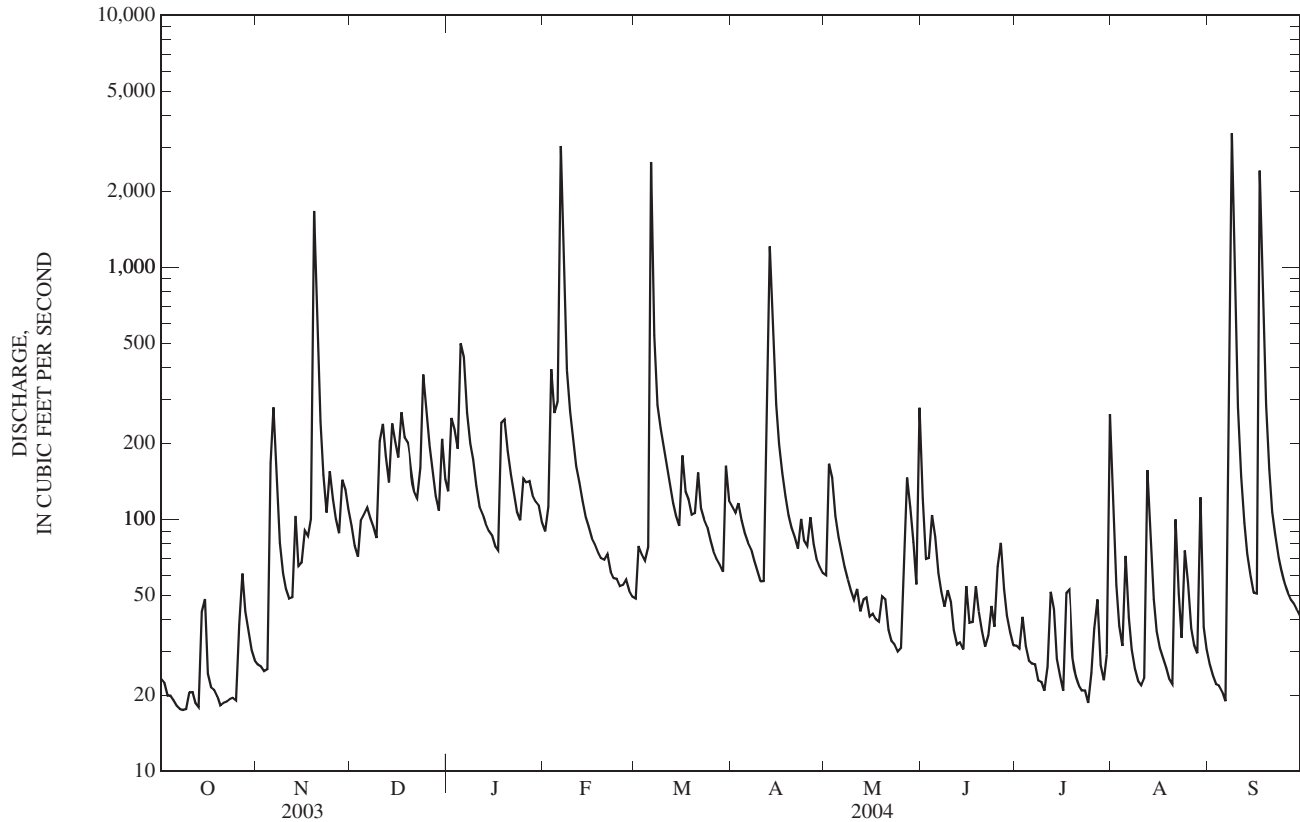
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	27	95	129	90	49	113	60	121	32	106	27
2	23	26	78	252	112	78	107	166	70	31	55	24
3	20	25	71	227	395	73	116	146	70	41	38	22
4	20	25	99	191	264	69	99	103	104	31	32	22
5	19	167	105	498	293	78	88	85	85	28	72	21
6	18	278	111	440	3,020	2,610	81	75	61	27	41	19
7	18	146	101	265	937	536	76	65	52	27	30	75
8	18	81	94	200	391	284	69	58	45	23	26	3,400
9	18	61	84	173	268	230	63	52	52	23	23	955
10	21	53	205	136	206	196	57	48	47	21	22	278
11	21	49	239	113	163	167	57	53	36	26	23	148
12	19	49	178	105	140	140	174	43	32	52	157	97
13	18	103	140	97	118	116	1,210	48	32	44	83	73
14	43	65	240	90	102	103	577	49	30	28	48	60
15	48	68	202	87	94	94	286	41	54	24	36	51
16	24	90	176	78	84	179	199	42	39	21	31	51
17	22	86	266	75	79	129	153	40	39	51	28	2,410
18	21	101	212	242	74	121	124	39	54	53	26	931
19	20	1,670	202	249	70	104	103	49	43	28	23	285
20	18	588	159	187	69	106	92	48	36	24	22	157
21	19	244	129	151	73	153	85	36	31	22	100	107
22	19	150	122	127	62	111	77	33	35	21	51	86
23	19	106	160	107	58	100	101	32	45	21	34	71
24	20	155	375	99	58	93	82	30	37	19	75	62
25	19	120	269	145	54	82	79	31	65	25	56	56
26	38	101	195	140	55	75	102	71	81	37	37	51
27	61	88	152	142	58	70	80	146	53	48	32	48
28	43	144	124	124	52	66	70	112	42	26	29	46
29	36	131	109	117	49	62	65	81	36	23	122	44
30	30	110	208	114	---	163	61	55	32	29	37	41
31	28	---	144	97	---	119	---	277	---	261	31	---
TOTAL	784	5,107	5,044	5,197	7,488	6,556	4,646	2,214	1,559	1,167	1,526	9,718
MEAN	25.3	170	163	168	258	211	155	71.4	52.0	37.6	49.2	324
MAX	61	1,670	375	498	3,020	2,610	1,210	277	121	261	157	3,400
MIN	18	25	71	75	49	49	57	30	30	19	22	19
CFSM	0.42	2.81	2.68	2.77	4.26	3.49	2.56	1.18	0.86	0.62	0.81	5.35
IN.	0.48	3.13	3.10	3.19	4.60	4.02	2.85	1.36	0.96	0.72	0.94	5.97

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2004, BY WATER YEAR (WY)

	MEAN	24.1	77.3	159	206	233	250	182	116	66.4	51.3	36.1	24.6
MAX	155	416	609	551	677	610	569	539	298	345	197	324	
(WY)	(1978)	(1974)	(1991)	(1974)	(1991)	(1975)	(1998)	(1984)	(1989)	(1967)	(1942)	(2004)	
MIN	3.05	5.35	7.34	14.4	14.9	47.6	34.9	17.2	13.8	4.26	6.00	3.02	
(WY)	(1954)	(1941)	(1966)	(1981)	(1941)	(1988)	(1986)	(1941)	(1988)	(1944)	(1951)	(1954)	

03402000 YELLOW CREEK NEAR MIDDLESBORO, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1941 - 2004	
ANNUAL TOTAL	58,969		51,006		118	
ANNUAL MEAN	162		139		219	
HIGHEST ANNUAL MEAN					49.5	
LOWEST ANNUAL MEAN					7,000	
HIGHEST DAILY MEAN	4,200	Feb 16	3,400	Sep 8	11,700	Apr 4, 1977
LOWEST DAILY MEAN	16	Sep 21	18	Oct 6	1.2	Oct 7, 1952
ANNUAL SEVEN-DAY MINIMUM	18	Sep 15	19	Oct 3	1.6	Sep 17, 1955
MAXIMUM PEAK FLOW			5,490	Feb 6	11,700	Apr 4, 1977
MAXIMUM PEAK STAGE			17.17	Feb 6	23.35	Apr 4, 1977
INSTANTANEOUS LOW FLOW			17	Jul 25	0.00	Sep 26, 1952
ANNUAL RUNOFF (CFSM)	2.67		2.30		1.95	
ANNUAL RUNOFF (INCHES)	36.20		31.31		26.51	
10 PERCENT EXCEEDS	267		233		250	
50 PERCENT EXCEEDS	77		72		45	
90 PERCENT EXCEEDS	23		23		7.8	



03402900 CUMBERLAND RIVER AT PINE STREET BRIDGE AT PINEVILLE, KY

LOCATION.--Lat 36°45'47", long 83°41'31", Bell County, Hydrologic Unit 05130101, on pier near right bank on Pine St. bridge at Pineville, 0.2 mi downstream from Straight Creek, and at mile 654.4.

DRAINAGE AREA.--770 mi².

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

GAGE.--Water-stage recorder with telemetry. Datum of gage is 970.00 ft above sea level, Sandy Hook datum.

REMARKS.--Records good except those estimated, which are poor. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,900 ft³/s, Mar. 6, gage height, 33.13 ft; minimum discharge, 155 ft³/s, Sept. 7, gage height, 6.45 ft.

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

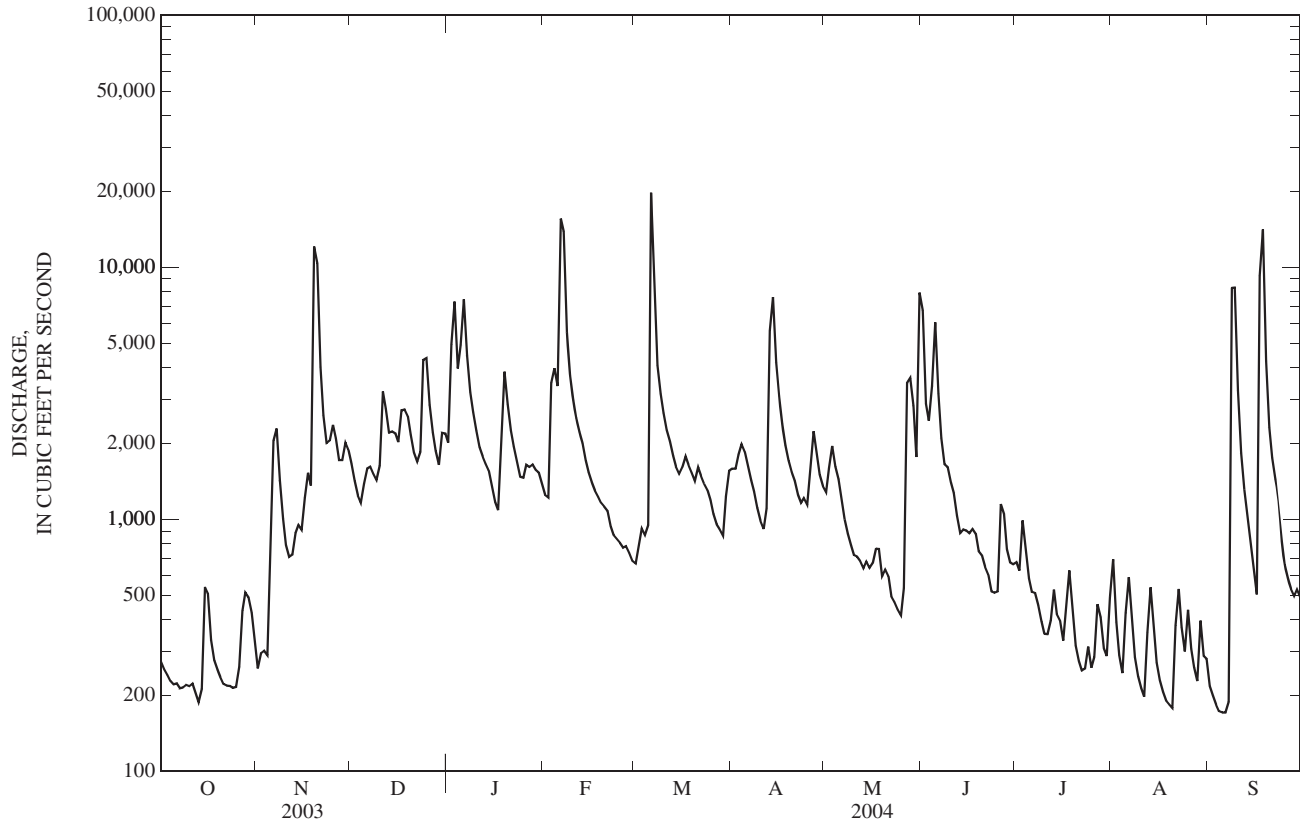
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	272	257	1,660	2,010	1,250	669	1,590	1,280	6,750	674	695	218
2	254	295	1,420	4,960	1,220	774	1,590	1,600	2,880	625	392	199
3	241	301	1,240	7,300	3,480	924	1,800	1,960	2,460	990	289	184
4	229	289	1,160	3,970	3,980	868	1,990	1,620	3,390	755	246	173
5	222	682	1,390	4,930	3,380	948	1,850	1,440	6,040	584	425	172
6	224	2,050	1,590	7,450	15,600	19,700	1,620	1,220	3,150	516	590	172
7	214	2,290	1,620	4,470	13,900	10,300	1,430	1,000	2,110	510	410	189
8	215	1,430	1,520	3,200	5,540	4,090	1,290	875	1,660	456	285	8,300
9	220	1,010	1,430	2,660	3,710	3,150	1,110	789	1,610	394	238	8,320
10	218	790	1,630	2,250	2,970	2,640	986	721	1,400	352	213	3,250
11	223	709	3,210	1,930	2,520	2,260	916	712	1,270	351	198	1,840
12	206	724	2,750	1,770	2,230	2,040	1,100	683	1,040	397	356	1,310
13	188	884	2,210	1,670	2,000	1,790	5,590	640	882	527	537	1,040
14	212	949	2,230	1,560	1,710	1,620	7,620	680	911	422	367	816
15	539	909	2,190	1,350	1,540	1,520	4,190	643	904	397	271	638
16	510	1,220	2,030	1,170	1,400	1,610	3,090	670	880	331	229	504
17	333	1,530	2,710	1,090	1,300	1,780	2,390	765	916	478	206	9,270
18	276	1,360	2,730	2,100	1,230	1,650	1,970	762	875	628	190	14,100
19	254	12,100	2,570	3,860	1,160	1,530	1,710	594	748	431	184	4,240
20	237	10,400	2,170	2,860	1,120	1,420	1,540	633	719	316	178	2,320
21	222	4,020	1,840	2,250	1,080	1,610	1,420	596	649	273	380	1,760
22	219	2,590	1,700	1,940	937	1,490	1,260	495	604	251	530	1,440
23	218	2,010	1,850	1,690	864	1,390	1,160	469	517	256	372	1,090
24	215	2,060	4,290	1,480	836	1,310	1,210	439	512	313	299	822
25	217	2,370	4,350	1,470	807	1,190	1,140	417	518	258	438	662
26	260	2,100	2,860	1,650	773	1,050	1,610	534	1,150	285	306	584
27	434	1,720	2,210	1,610	784	957	2,240	3,470	1,050	461	259	529
28	513	1,720	1,870	1,650	737	913	1,830	3,630	761	409	228	497
29	491	2,020	1,640	1,570	686	864	1,500	2,820	674	308	396	528
30	427	1,890	2,200	1,540	---	1,240	1,360	1,770	663	287	288	492
31	323	---	2,190	1,380	---	1,560	---	7,930	---	493	280	---
TOTAL	8,826	62,679	66,460	80,790	78,744	74,857	60,102	41,857	47,693	13,728	10,275	65,659
MEAN	285	2,089	2,144	2,606	2,715	2,415	2,003	1,350	1,590	443	331	2,189
MAX	539	12,100	4,350	7,450	15,600	19,700	7,620	7,930	6,750	990	695	14,100
MIN	188	257	1,160	1,090	686	669	916	417	512	251	178	172
CFSM	0.37	2.71	2.78	3.38	3.53	3.14	2.60	1.75	2.06	0.58	0.43	2.84
IN.	0.43	3.03	3.21	3.90	3.80	3.62	2.90	2.02	2.30	0.66	0.50	3.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2004, BY WATER YEAR (WY)

MEAN	218	803	1,773	2,197	2,592	2,982	2,427	1,519	960	413	439	383
MAX	670	3,009	5,204	4,201	6,720	5,367	5,977	3,091	2,369	726	923	2,189
(WY)	(1997)	(1997)	(1992)	(1994)	(1994)	(1994)	(1998)	(1995)	(2003)	(2003)	(1996)	(2004)
MIN	87.4	104	342	640	964	1,285	817	796	245	176	107	59.7
(WY)	(1999)	(1999)	(2000)	(2000)	(2002)	(2003)	(1995)	(1993)	(2002)	(1993)	(1995)	(1999)

03402900 CUMBERLAND RIVER AT PINE STREET BRIDGE AT PINEVILLE, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1992 - 2004	
ANNUAL TOTAL	690,801		611,670		1,386	
ANNUAL MEAN	1,893		1,671		2,241	
HIGHEST ANNUAL MEAN					792	
LOWEST ANNUAL MEAN					41,500	
HIGHEST DAILY MEAN	34,600	Feb 16	19,700	Mar 6	41,500	Mar 18, 2002
LOWEST DAILY MEAN	188	Oct 13	172	Sep 5	48	Sep 20, 1999
ANNUAL SEVEN-DAY MINIMUM	212	Oct 8	187	Sep 1	49	Sep 16, 1999
MAXIMUM PEAK FLOW			24,900	Mar 6	46,700	Mar 18, 2002
MAXIMUM PEAK STAGE			33.13	Mar 6	47.32	Mar 18, 2002
INSTANTANEOUS LOW FLOW			155	Sep 7	47	Sep 20, 1999
ANNUAL RUNOFF (CFSM)	2.46		2.17		1.80	
ANNUAL RUNOFF (INCHES)	33.37		29.55		24.46	
10 PERCENT EXCEEDS	3,390		3,290		2,970	
50 PERCENT EXCEEDS	1,030		1,100		680	
90 PERCENT EXCEEDS	270		253		123	



03403500 CUMBERLAND RIVER AT BARBOURVILLE, KY

LOCATION.--Lat 36°51'45", long 83°53'31", Knox County, Hydrologic Unit 05130101, on right bank 100 ft upstream from bridge on State Highway 11, at Barbourville, 0.4 mi upstream from Richland Creek, and at mile 635.2.

DRAINAGE AREA.--960 mi².

PERIOD OF RECORD.--October 1922 to September 1931, April 1948 to July 2, 1993, October 1995 to current year. Monthly discharge only April to June 1948, published in WSP 1306.

REVISED RECORDS.--WSP 603: 1923-24. WSP 1336: 1923(M). 1927, 1929, 1950-51. WSP 1436: Drainage area.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 942.97 ft above NGVD of 1929. See WRD KY-90-1 for history of changes prior to Oct. 17, 1975.

REMARKS.--Records good except for those estimated, which are poor. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979. Diversions by City of Barbourville for municipal water supply.

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

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	381	322	2,290	2,600	1,660	779	2,140	1,740	11,200	764	1,200	319
2	352	307	1,950	4,510	1,570	873	2,120	1,930	5,000	749	659	269
3	333	338	1,670	11,700	2,980	1,120	2,280	2,700	2,960	950	446	245
4	311	331	1,510	7,760	4,530	1,090	2,480	2,290	3,210	999	346	227
5	301	417	1,700	5,100	4,300	1,090	2,430	2,020	6,790	721	525	221
6	290	2,660	2,030	9,270	14,400	13,800	2,180	1,750	4,780	641	1,000	215
7	284	3,650	2,130	6,850	23,400	21,300	1,950	1,400	2,800	602	736	213
8	266	2,300	2,040	4,250	15,400	11,600	1,760	1,180	2,170	570	464	5,290
9	267	1,480	1,890	3,390	7,980	5,110	1,530	1,030	1,980	486	351	11,900
10	270	1,080	1,950	2,900	4,180	3,420	1,340	1,050	1,730	426	317	6,130
11	266	869	3,510	2,480	3,250	2,880	1,210	1,030	1,580	402	279	2,530
12	265	846	3,620	2,260	2,860	2,600	1,320	914	1,320	455	301	1,720
13	237	1,010	2,920	2,130	2,580	2,340	4,550	796	1,070	653	687	1,300
14	250	1,210	2,780	1,990	2,270	2,110	10,700	818	1,030	560	535	1,030
15	442	1,170	2,880	1,810	2,010	1,980	7,170	811	1,080	484	376	790
16	683	1,560	2,670	1,530	1,830	2,000	4,300	906	1,120	421	321	618
17	450	2,240	3,400	1,390	1,650	2,280	3,270	867	1,100	345	285	6,320
18	354	2,020	3,820	2,400	1,560	2,130	2,660	1,050	1,030	806	252	19,300
19	320	8,310	3,620	5,540	1,450	2,010	2,320	792	902	592	234	12,800
20	301	15,800	e2,950	4,440	1,400	1,840	2,090	752	820	412	225	4,710
21	288	8,930	2,460	3,090	1,390	2,140	1,930	740	779	339	317	2,240
22	271	3,910	e2,380	2,600	1,190	2,070	1,730	623	836	321	667	1,810
23	264	2,640	2,350	2,270	1,050	1,910	1,550	563	651	308	532	1,440
24	261	2,500	3,660	2,000	995	1,790	1,650	543	606	330	462	1,030
25	258	3,090	5,540	1,880	975	1,670	1,520	498	704	333	628	813
26	273	2,810	3,900	2,140	924	1,470	2,030	552	1,160	335	450	694
27	404	2,370	2,930	2,080	937	1,300	2,980	3,070	1,480	613	355	620
28	609	2,200	2,450	2,180	894	1,220	2,600	5,470	995	638	318	573
29	585	2,720	2,150	2,080	816	1,160	2,140	4,290	787	437	392	557
30	516	2,570	2,550	2,050	---	1,480	1,840	2,610	772	355	461	586
31	436	---	2,850	1,880	---	2,070	---	5,020	---	481	374	---
TOTAL	10,788	81,660	84,550	108,550	110,431	100,632	79,770	49,805	62,442	16,528	14,495	86,510
MEAN	348	2,722	2,727	3,502	3,808	3,246	2,659	1,607	2,081	533	468	2,884
MAX	683	15,800	5,540	11,700	23,400	21,300	10,700	5,470	11,200	999	1,200	19,300
MIN	237	307	1,510	1,390	816	779	1,210	498	606	308	225	213
CFSM	0.36	2.84	2.84	3.65	3.97	3.38	2.77	1.67	2.17	0.56	0.49	3.00
IN.	0.42	3.16	3.28	4.21	4.28	3.90	3.09	1.93	2.42	0.64	0.56	3.35

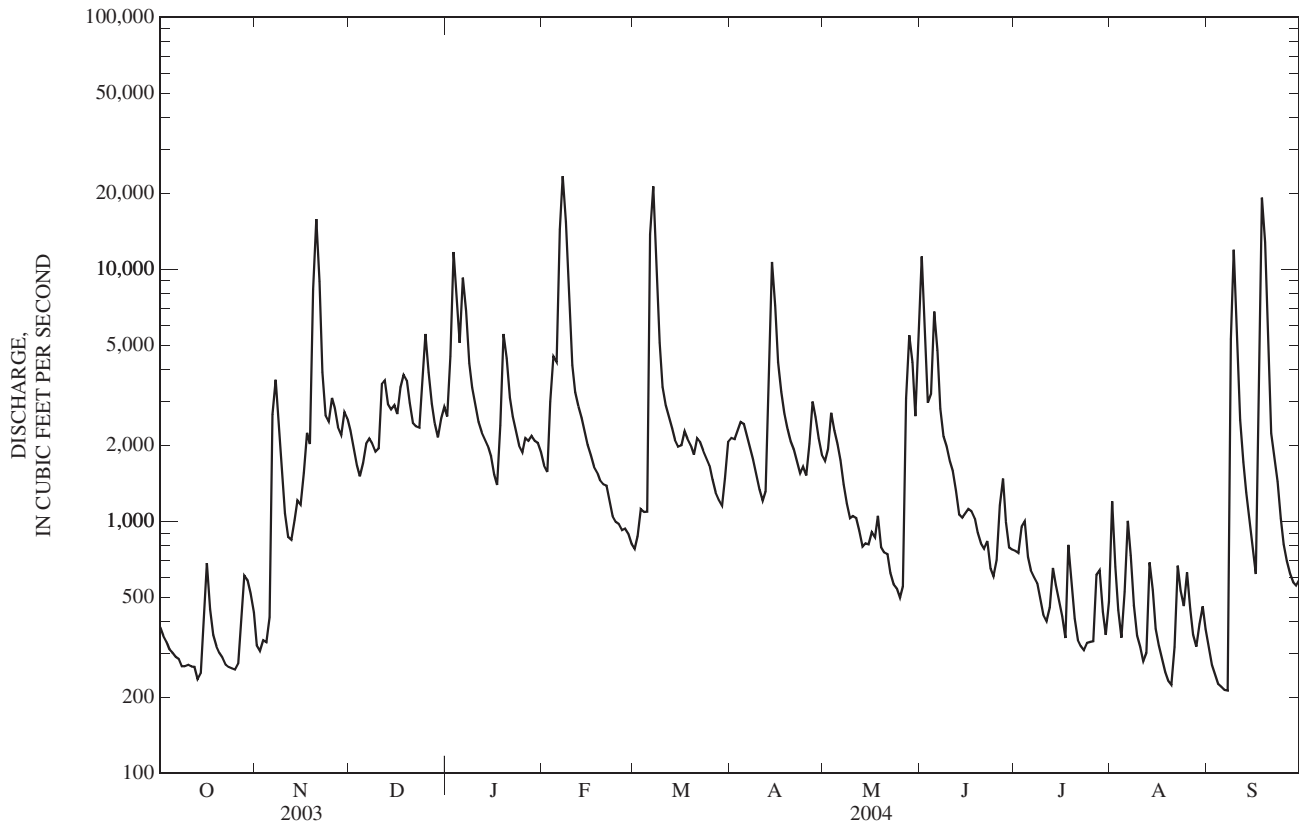
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2004, BY WATER YEAR (WY)

	MEAN	426	1,224	2,108	2,554	3,211	3,277	2,771	2,010	1,286	547	470	518
MAX	3,058	3,816	5,837	5,582	7,612	6,208	8,578	6,782	5,524	1,071	1,089	2,884	
(WY)	(1990)	(1997)	(1992)	(1982)	(2003)	(1997)	(1998)	(1984)	(1989)	(1989)	(2003)	(2004)	
MIN	87.9	117	193	135	1,220	791	549	635	201	141	124	60.5	
(WY)	(1981)	(1999)	(1981)	(1981)	(1999)	(1988)	(1986)	(1986)	(1988)	(1988)	(1999)	(1999)	

03403500 CUMBERLAND RIVER AT BARBOURVILLE, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1980 - 2004	
ANNUAL TOTAL	917,038		806,161		1,692	
ANNUAL MEAN	2,512		2,203		824	
HIGHEST ANNUAL MEAN					2,417	
LOWEST ANNUAL MEAN					824	
HIGHEST DAILY MEAN	33,900	Feb 17	23,400	Feb 7	41,600	May 8, 1984
LOWEST DAILY MEAN	233	Sep 21	213	Sep 7	50	Sep 19, 1999
ANNUAL SEVEN-DAY MINIMUM	260	Oct 8	244	Sep 1	53	Sep 16, 1999
MAXIMUM PEAK FLOW			24,600	Feb 7	56,100	Apr 6, 1977
MAXIMUM PEAK STAGE			29.78	Feb 7	45.91	Apr 6, 1977
INSTANTANEOUS LOW FLOW			202	Sep 7	0.20	Oct 5, 1930
ANNUAL RUNOFF (CFSM)	2.62		2.29		1.76	
ANNUAL RUNOFF (INCHES)	35.54		31.24		23.94	
10 PERCENT EXCEEDS	4,330		4,460		3,680	
50 PERCENT EXCEEDS	1,330		1,440		844	
90 PERCENT EXCEEDS	324		320		128	

e Estimated



03403910 CLEAR FORK AT SAXTON, KY

LOCATION.--Lat 36°38'02", long 84°06'42", Whitley County, Hydrologic Unit 05130101, on State Highway 1804 bridge, at Saxton, 100 ft upstream from CSX Railroad bridge, 150 ft downstream from unnamed stream. 7.2 mi southeast of Williamsburg, and at mile 12.2.

DRAINAGE AREA.--331 mi².

PERIOD OF RECORD.--July 1968 to September 1990, October 1995 to September 30, 2004 (discontinued).

GAGE.--Water-stage recorder with telemetry and crest-stage gage. Datum of gage is 921.83 ft above NGVD of 1929.

REMARKS.--Records good.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 19	1800	6,270	20.12	Sep 8	1930	6,140	19.90
Feb 6	1600	5,800	19.27	Sep 18	0300	*12,400	*30.05
Mar 6	1600	9,810	25.86				

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	241	102	647	587	452	225	642	365	791	e350	747	81
2	210	97	528	773	418	275	589	721	457	288	360	78
3	178	95	457	840	656	369	568	1,140	468	277	224	86
4	158	93	441	768	683	345	512	791	1,480	285	161	98
5	147	193	520	1,220	1,060	359	452	617	1,330	220	141	85
6	134	1,060	519	1,790	4,720	7,540	403	496	665	245	157	75
7	123	998	493	1,170	3,020	3,250	373	399	434	227	123	83
8	115	605	471	896	1,980	1,470	353	325	329	189	102	4,120
9	107	422	435	771	1,290	1,060	325	275	280	155	91	3,400
10	102	328	611	634	1,010	910	290	246	244	134	85	1,080
11	103	275	1,160	524	834	745	275	236	203	124	81	595
12	101	254	897	481	718	653	429	244	199	157	101	392
13	97	623	722	450	627	558	2,970	193	750	261	261	290
14	111	482	833	411	551	498	2,810	174	376	181	144	223
15	214	401	846	390	506	462	1,660	161	2,720	134	109	182
16	149	433	767	351	453	561	1,140	183	1,010	114	93	166
17	117	552	1,090	326	414	573	869	198	632	107	83	6,740
18	106	533	1,000	732	387	527	696	176	1,020	289	77	10,800
19	99	4,720	972	1,260	358	516	579	182	583	162	74	2,390
20	94	e3,600	814	917	351	477	505	176	409	122	68	861
21	90	1,410	677	727	373	720	458	147	295	108	127	583
22	86	921	618	613	338	694	e408	125	290	97	197	435
23	84	691	616	519	308	624	e450	116	304	96	117	345
24	84	706	1,040	462	296	556	546	106	500	93	120	287
25	81	748	1,020	563	284	491	442	99	742	89	195	243
26	84	650	826	845	270	436	617	154	1,780	119	128	215
27	131	568	684	797	279	395	677	547	827	335	99	193
28	182	673	588	735	252	366	567	445	524	177	87	179
29	140	871	516	650	234	339	472	471	385	121	91	169
30	123	766	715	611	---	604	402	278	293	108	92	155
31	109	---	654	515	---	678	---	826	---	320	85	---
TOTAL	3,900	23,870	22,177	22,328	23,122	27,276	21,479	10,612	20,320	5,684	4,620	34,629
MEAN	126	796	715	720	797	880	716	342	677	183	149	1,154
MAX	241	4,720	1,160	1,790	4,720	7,540	2,970	1,140	2,720	350	747	10,800
MIN	81	93	435	326	234	225	275	99	199	89	68	75
CFSM	0.38	2.40	2.16	2.18	2.41	2.66	2.16	1.03	2.05	0.55	0.45	3.49
IN.	0.44	2.68	2.49	2.51	2.60	3.07	2.41	1.19	2.28	0.64	0.52	3.89

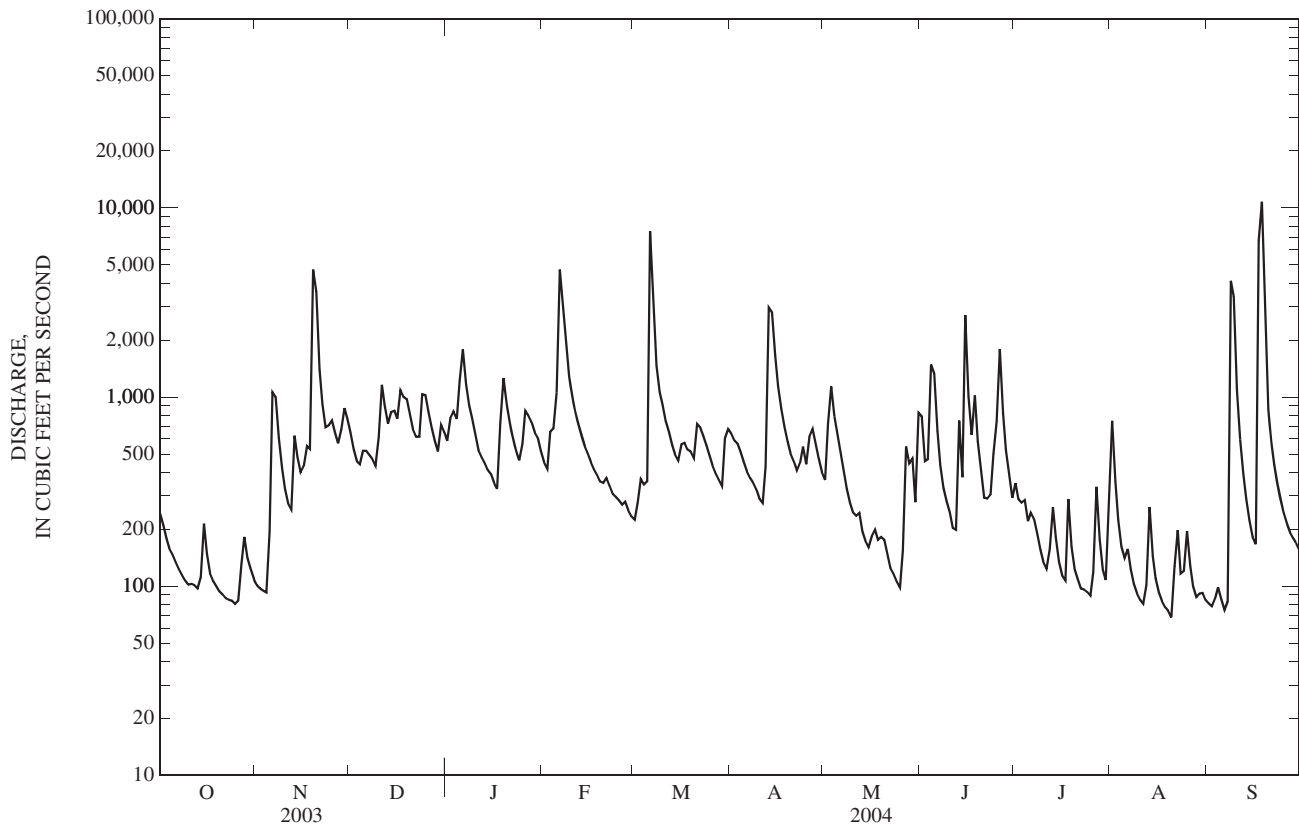
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2004, BY WATER YEAR (WY)

MEAN	160	432	627	879	929	999	846	643	406	202	183	169
MAX	1,472	1,624	1,824	2,534	2,078	3,356	2,193	2,087	1,923	659	557	1,154
(WY)	(1990)	(1974)	(1973)	(1974)	(2003)	(1975)	(1998)	(1984)	(1989)	(1971)	(1985)	(2004)
MIN	6.07	15.0	53.7	41.0	327	300	147	122	31.1	44.0	34.3	16.0
(WY)	(2001)	(2001)	(1981)	(1981)	(2002)	(1988)	(1986)	(1985)	(1988)	(1970)	(1997)	(2000)

03403910 CLEAR FORK AT SAXTON, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1968 - 2004	
ANNUAL TOTAL	275,991		220,017		538	
ANNUAL MEAN	756		601		894	
HIGHEST ANNUAL MEAN					233	
LOWEST ANNUAL MEAN					19,400	
HIGHEST DAILY MEAN	11,600	Feb 16	10,800	Sep 18	19,400	May 28, 1973
LOWEST DAILY MEAN	78	Aug 28	68	Aug 20	3.3	Aug 19, 1988
ANNUAL SEVEN-DAY MINIMUM	86	Oct 20	84	Sep 1	4.5	Oct 11, 2000
MAXIMUM PEAK FLOW			12,400	Sep 18	22,800	Apr 5, 1977
MAXIMUM PEAK STAGE			30.05	Sep 18	41.51	Apr 5, 1977
ANNUAL RUNOFF (CFSM)	2.28		1.82		1.63	
ANNUAL RUNOFF (INCHES)	31.02		24.73		22.09	
10 PERCENT EXCEEDS	1,350		1,020		1,140	
50 PERCENT EXCEEDS	433		402		252	
90 PERCENT EXCEEDS	117		99		34	

e Estimated



03404000 CUMBERLAND RIVER AT WILLIAMSBURG, KY

LOCATION.--Lat 36°44'36", long 84°09'22", Whitley County, Hydrologic Unit 05130101, on right bank 100 ft upstream from bridge on State Highway 296E at Williamsburg, 2.0 mi downstream from Clear Fork, and at mile 590.4.

DRAINAGE AREA.--1,607 mi².

PERIOD OF RECORD.--October 1950 to current year. Gage-height records collected in this vicinity since 1908 are published in reports of National Weather Service.

REVISED RECORDS.--WSP 1436: Drainage area.

GAGE.--Water-stage recorder with telemetry and crest-stage gages. Datum of gage is 891.52 ft above NGVD of 1929. See WDR KY-90-1 for history of changes prior to June 26, 1990.

REMARKS.--Records good except for those estimated, which are poor. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979.

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

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

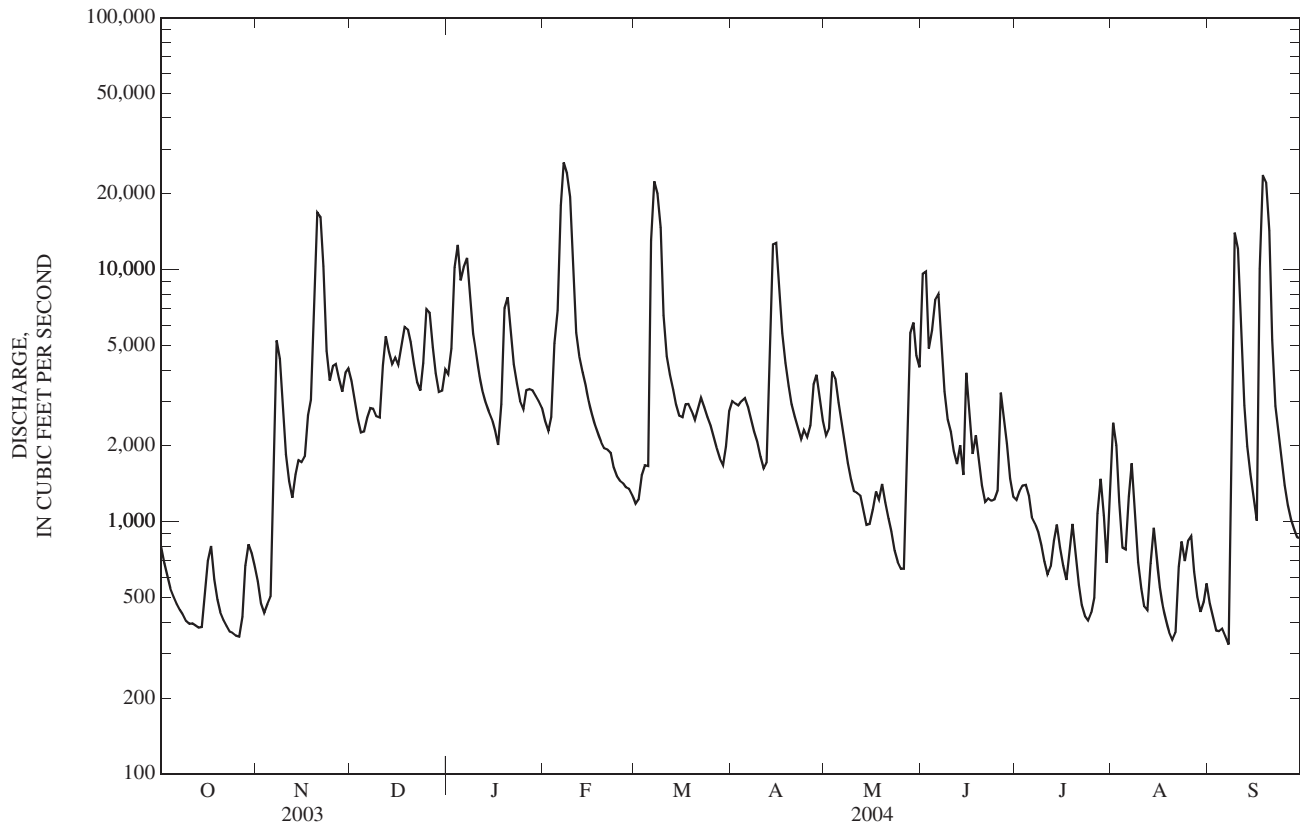
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	794	582	3,610	3,850	2,510	1,180	3,010	2,200	9,600	1,220	2,470	474
2	684	473	3,050	4,870	2,300	1,230	2,940	2,330	9,820	1,320	2,010	421
3	604	435	2,550	10,200	2,600	1,530	2,890	3,950	4,870	1,390	1,190	371
4	543	471	2,260	12,500	5,110	1,670	3,020	3,700	5,750	1,400	791	368
5	504	505	2,280	9,050	6,890	1,660	3,090	2,970	7,590	1,260	776	377
6	472	2,110	2,580	10,300	17,900	13,000	2,850	2,520	8,000	1,040	1,260	351
7	447	5,230	2,820	11,100	26,600	22,300	2,540	2,090	4,940	984	1,700	326
8	428	4,430	2,800	7,810	24,100	20,000	2,270	1,710	3,290	909	1,100	4,380
9	404	2,690	2,620	5,570	19,400	14,700	2,070	1,470	2,540	804	693	14,000
10	394	1,850	2,580	4,580	11,100	6,580	1,810	1,320	2,270	696	543	12,100
11	395	1,450	4,170	3,790	5,630	4,540	1,620	1,300	1,900	618	461	5,760
12	388	1,240	5,440	3,250	4,510	3,820	1,720	1,270	1,690	665	445	2,890
13	381	1,540	4,710	2,970	3,920	3,340	5,450	1,110	2,010	842	685	1,990
14	383	1,750	4,210	2,740	3,460	2,920	12,600	971	1,530	974	948	1,550
15	516	1,720	4,480	2,550	3,010	2,630	12,800	981	3,900	790	728	1,250
16	701	1,820	4,200	2,290	2,670	2,590	8,340	1,120	2,670	668	550	1,010
17	802	2,650	4,970	2,020	2,410	2,930	5,600	1,320	1,860	587	456	10,100
18	591	3,050	5,940	2,930	2,230	2,940	4,260	1,230	2,200	735	403	23,700
19	491	7,570	5,790	7,030	2,070	2,750	3,450	1,410	1,760	981	365	22,200
20	438	16,800	5,150	7,770	1,950	2,530	2,920	1,190	1,390	750	340	14,300
21	408	16,200	4,230	5,570	1,930	2,820	2,610	1,030	1,200	561	364	5,270
22	386	10,300	3,580	4,210	1,880	3,100	2,360	913	1,240	467	662	2,880
23	366	4,760	3,320	3,520	1,650	2,850	2,130	768	1,210	423	835	2,250
24	362	3,630	4,260	3,010	1,520	2,600	2,320	693	1,220	406	698	1,770
25	354	4,140	6,960	2,800	1,460	2,410	2,170	650	1,330	436	838	1,400
26	350	4,220	6,740	3,330	1,420	2,190	2,410	651	3,250	499	874	1,160
27	420	3,680	4,920	3,360	1,370	1,960	3,500	1,940	2,560	1,080	634	1,020
28	669	3,280	3,890	3,320	1,350	1,780	3,830	5,600	2,040	1,480	504	929
29	814	3,890	3,270	3,160	1,270	1,680	3,110	6,170	1,480	1,060	439	867
30	749	4,040	3,310	3,010	---	1,990	2,510	4,560	1,260	686	480	861
31	660	---	4,020	2,830	---	2,750	---	4,090	---	1,310	570	---
TOTAL	15,898	116,506	124,710	155,290	164,220	140,970	112,200	63,227	96,370	27,041	24,812	136,325
MEAN	513	3,884	4,023	5,009	5,663	4,547	3,740	2,040	3,212	872	800	4,544
MAX	814	16,800	6,960	12,500	26,600	22,300	12,800	6,170	9,820	1,480	2,470	23,700
MIN	350	435	2,260	2,020	1,270	1,180	1,620	650	1,200	406	340	326

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2004, BY WATER YEAR (WY)

MEAN	594	1,676	3,221	4,024	5,112	5,151	4,124	3,028	1,922	800	744	780
MAX	4,413	4,923	9,751	8,015	12,920	10,400	11,520	9,572	8,305	1,684	1,882	4,544
(WY)	(1990)	(1997)	(1992)	(1994)	(1994)	(1994)	(1998)	(1984)	(1989)	(1989)	(2003)	(2004)
MIN	107	141	300	203	1,803	1,193	730	943	277	211	191	86.2
(WY)	(1981)	(1999)	(1981)	(1981)	(1988)	(1988)	(1986)	(1986)	(1988)	(1988)	(2002)	(1999)

03404000 CUMBERLAND RIVER AT WILLIAMSBURG, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1980 - 2004	
ANNUAL TOTAL	1,359,470		1,177,569		2,585	
ANNUAL MEAN	3,725		3,217		4,390	
HIGHEST ANNUAL MEAN					1,159	
LOWEST ANNUAL MEAN					38,500	
HIGHEST DAILY MEAN	32,700	Feb 18	26,600	Feb 7	1,159	1988
LOWEST DAILY MEAN	350	Oct 26	326	Sep 7	62	Oct 18, 1980
ANNUAL SEVEN-DAY MINIMUM	378	Oct 21	378	Oct 21	63	Oct 17, 1980
MAXIMUM PEAK FLOW			27,700	Feb 7	49,700	Jan 31, 1957
MAXIMUM PEAK STAGE			25.27	Feb 7	35.03	Apr 7, 1977
INSTANTANEOUS LOW FLOW					6.1	Oct 23, 1953
10 PERCENT EXCEEDS	7,100		6,780		5,840	
50 PERCENT EXCEEDS	2,000		2,100		1,250	
90 PERCENT EXCEEDS	505		472		198	



03404500 CUMBERLAND RIVER AT CUMBERLAND FALLS, KY

LOCATION.--Lat 36°50'14", long 84°26'36", McCreary County, Hydrologic Unit 05130101, on left bank 0.1 mi downstream from bridge on State Highway 90, 0.2 upstream from Cumberland Falls, and at mile 562.4.

DRAINAGE AREA.--1,977 mi².

PERIOD OF RECORD.--August 1907 to December 1911, October 1914 to September 1994, October 2002 to current year. Monthly discharges only for October 1914 to March 1915 and October 1931 to July 1932, published in WSP 1306.

REVISED RECORDS.--WSP 1436: 1919. WSP 1436: Drainage area.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 825.28 ft above NGVD of 1929. Aug. 15, 1907 to Dec. 10, 1911, nonrecording gage at site 300 ft downstream at different datum. Apr. 3, 1915 to Sept. 1, 1933, nonrecording gage at site 500 ft downstream at same datum.

REMARKS.--Records good except for those estimated, which are poor. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 6	1200	*35,100	11.14	Mar 7	1400	25,600	9.38
Feb 9	1000	21,900	8.64				

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	798	4,440	4,610	3,070	1,560	4,130	2,810	9,150	1,610	6,270	650
2	1,010	694	3,710	6,240	2,820	1,660	3,920	2,940	11,400	1,580	3,230	573
3	866	580	3,100	10,700	2,890	1,900	3,690	4,620	6,600	1,790	2,100	490
4	762	568	2,790	13,700	4,780	2,160	3,640	4,700	7,760	1,670	1,400	455
5	698	665	2,730	11,700	9,600	2,180	3,660	3,810	9,170	1,730	1,450	462
6	640	1,640	2,970	11,700	31,700	19,000	3,490	3,220	9,320	1,450	1,590	447
7	594	5,550	3,210	12,600	30,000	24,800	3,140	2,730	6,490	1,480	2,000	406
8	561	5,540	3,250	9,590	26,700	21,400	2,870	2,280	4,050	1,340	1,710	5,840
9	530	3,550	3,110	6,810	21,500	17,100	2,630	1,980	3,280	1,200	1,130	15,300
10	498	2,490	3,000	5,510	14,100	9,330	2,350	1,760	2,790	1,050	785	13,900
11	503	1,890	4,150	4,520	7,330	5,780	2,130	1,700	2,470	933	619	7,650
12	495	1,660	5,820	3,840	5,530	4,680	2,200	1,710	2,210	955	580	3,980
13	485	1,900	5,630	3,510	4,750	4,090	7,500	1,510	3,560	1,150	681	2,690
14	512	2,280	4,830	3,240	4,120	3,590	14,600	1,380	2,790	1,270	1,140	e2,130
15	628	2,220	5,110	3,050	3,670	3,220	15,400	1,320	4,320	1,230	1,130	e1,710
16	819	2,310	4,930	2,790	3,220	3,130	11,000	1,440	4,450	982	828	e1,360
17	984	3,140	5,450	2,480	2,900	3,420	7,360	1,680	2,740	826	613	e9,730
18	903	3,730	6,770	3,700	2,720	3,490	5,550	1,640	2,660	763	518	e31,200
19	700	7,230	6,850	8,470	2,540	3,330	4,340	1,630	2,510	1,190	462	e27,500
20	596	17,200	6,190	9,410	2,410	3,110	3,650	1,690	1,960	1,120	413	e16,900
21	533	17,300	5,180	6,880	2,380	3,260	3,290	1,400	1,630	853	408	8,910
22	497	13,000	4,330	5,270	2,340	3,680	2,970	1,270	1,530	617	720	3,820
23	465	6,320	3,920	4,310	2,110	3,480	2,820	1,160	1,600	523	1,050	2,810
24	441	4,360	5,670	3,660	1,940	3,220	2,900	1,000	1,560	484	1,100	2,290
25	435	4,550	7,700	3,350	1,840	3,010	2,770	933	3,130	465	1,120	1,880
26	427	4,860	8,140	3,860	1,780	2,770	2,910	931	3,820	559	1,310	1,450
27	503	4,320	6,160	4,090	1,750	2,550	4,240	2,420	3,410	1,660	1,070	1,210
28	756	4,120	4,650	3,980	1,720	2,340	4,720	5,770	2,880	2,140	768	1,080
29	1,040	4,860	3,890	3,800	1,650	2,200	3,930	7,440	2,030	1,720	637	1,000
30	1,020	5,020	3,890	3,620	---	3,010	3,310	5,730	1,640	1,100	579	939
31	903	---	4,560	3,410	---	3,920	---	6,020	---	1,610	716	---
TOTAL	20,974	134,345	146,130	184,400	203,860	172,370	141,110	80,624	122,910	37,050	38,127	168,762
MEAN	677	4,478	4,714	5,948	7,030	5,560	4,704	2,601	4,097	1,195	1,230	5,625
MAX	1,170	17,300	8,140	13,700	31,700	24,800	15,400	7,440	11,400	2,140	6,270	31,200
MIN	427	568	2,730	2,480	1,650	1,560	2,130	931	1,530	465	408	406

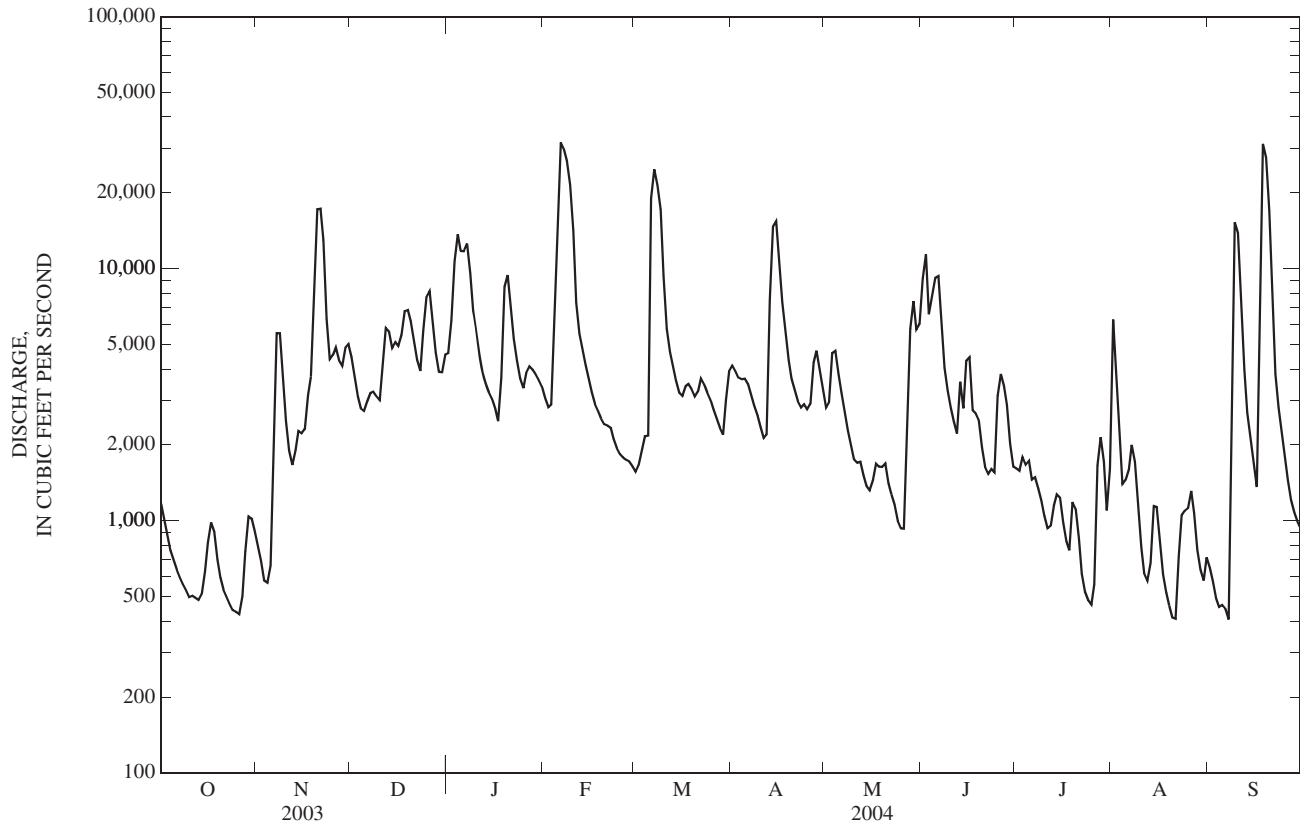
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2004, BY WATER YEAR (WY)

MEAN	684	1,877	3,884	5,773	6,411	7,008	5,092	3,274	1,809	1,344	946	631
MAX	5,330	7,963	17,620	17,570	15,740	18,510	11,390	11,230	8,954	6,379	4,171	5,625
(WY)	(1990)	(1978)	(1927)	(1937)	(1939)	(1917)	(1977)	(1984)	(1989)	(1941)	(1942)	(2004)
MIN	10.5	44.2	141	227	462	1,572	987	417	103	47.5	37.3	23.0
(WY)	(1954)	(1940)	(1940)	(1981)	(1941)	(1988)	(1963)	(1936)	(1936)	(1944)	(1925)	(1925)

03404500 CUMBERLAND RIVER AT CUMBERLAND FALLS, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1908 - 2004	
ANNUAL TOTAL	1,620,568		1,450,662		3,213	
ANNUAL MEAN	4,440		3,964		5,196	
HIGHEST ANNUAL MEAN					1,324	
LOWEST ANNUAL MEAN					57,500	
HIGHEST DAILY MEAN	37,100	Feb 16	31,700	Feb 6	Jan 28, 1918	1927
LOWEST DAILY MEAN	425	Sep 21	406	Sep 7	Oct 23, 1953	1988
ANNUAL SEVEN-DAY MINIMUM	472	Oct 21	472	Oct 21	7.1	
MAXIMUM PEAK FLOW			35,100	Feb 6	59,600	Jan 28, 1918
MAXIMUM PEAK STAGE			11.14	Feb 6	15.50	Jan 28, 1918
INSTANTANEOUS LOW FLOW					4.0	Sep 19, 1954
10 PERCENT EXCEEDS	8,420		8,240		7,950	
50 PERCENT EXCEEDS	2,490		2,780		1,440	
90 PERCENT EXCEEDS	681		618		160	

e Estimated



03404900 LYNN CAMP CREEK AT CORBIN, KY

LOCATION.--Lat 36°57'05", long 84°05'37", Whitley County, Hydrologic Unit 05130101, on left bank 40 ft downstream from bridge on State Highway 312, (East Masters Street) at Corbin, 0.8 mi downstream from East Fork Lynn Camp Creek, and at mile 3.9.

DRAINAGE AREA.--53.8 mi².

PERIOD OF RECORD.--Annual maximums, water years 1957-73, October 1973 to current year.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 1,049.00 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records good except for discharges below 2.0 ft³/s, which are fair and for those estimated, which are poor.

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

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)
Feb 6	0700	3,180	10.08	Sep 17	1630	*3,940	*11.08
Mar 6	1330	2,060	8.36				

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	20	9.7	72	e100	51	28	84	32	119	59	390	6.4
2	18	8.5	58	e500	57	101	71	133	76	23	113	5.6
3	14	9.1	49	374	152	67	62	88	82	15	65	13
4	12	8.5	58	201	97	55	50	52	519	13	47	36
5	11	49	86	e327	928	100	43	40	282	11	421	11
6	11	131	101	e225	2,550	1,700	38	33	108	24	166	7.9
7	9.8	90	73	145	681	354	35	27	72	52	65	11
8	8.9	47	64	117	244	160	34	22	55	20	42	594
9	8.5	32	56	105	169	113	31	19	46	13	31	230
10	8.0	26	133	84	138	87	27	19	39	20	25	79
11	8.7	23	159	70	109	72	26	19	33	82	21	47
12	9.2	30	97	71	93	62	156	16	28	31	64	33
13	8.2	62	76	66	80	52	557	13	32	26	68	25
14	28	32	136	58	70	49	289	12	33	16	37	19
15	42	44	110	54	64	46	158	14	43	12	27	15
16	17	95	104	46	56	114	108	16	36	9.2	23	16
17	11	89	310	44	53	74	83	16	28	8.2	20	2,620
18	10	71	171	515	49	59	65	13	32	16	20	1,210
19	9.4	507	152	388	45	51	55	22	24	13	19	170
20	8.5	243	113	155	46	55	50	18	18	9.7	13	92
21	7.7	111	90	108	58	118	45	12	19	8.3	14	65
22	7.2	76	89	87	47	70	40	9.7	22	8.7	17	52
23	6.9	60	189	70	43	59	97	8.5	31	14	11	43
24	6.6	107	416	66	40	52	74	6.7	27	13	37	35
25	6.3	87	185	86	36	46	44	e6.0	220	14	38	31
26	8.2	65	121	92	33	41	150	e30	111	113	18	27
27	47	59	e95	104	37	40	82	e215	61	377	13	23
28	27	198	e80	85	32	40	54	e160	50	85	10	22
29	16	144	e72	70	29	39	42	81	48	48	8.9	19
30	12	94	e205	68	---	191	35	46	48	37	9.6	17
31	11	---	e122	56	---	111	---	366	---	406	8.2	---
TOTAL	429.1	2,607.8	3,842	4,537	6,087	4,206	2,685	1,564.9	2,342	1,597.1	1,861.7	5,574.9
MEAN	13.8	86.9	124	146	210	136	89.5	50.5	78.1	51.5	60.1	186
MAX	47	507	416	515	2,550	1,700	557	366	519	406	421	2,620
MIN	6.3	8.5	49	44	29	28	26	6.0	18	8.2	8.2	5.6
CFSM	0.26	1.62	2.30	2.72	3.90	2.52	1.66	0.94	1.45	0.96	1.12	3.45
IN.	0.30	1.80	2.66	3.14	4.21	2.91	1.86	1.08	1.62	1.10	1.29	3.85

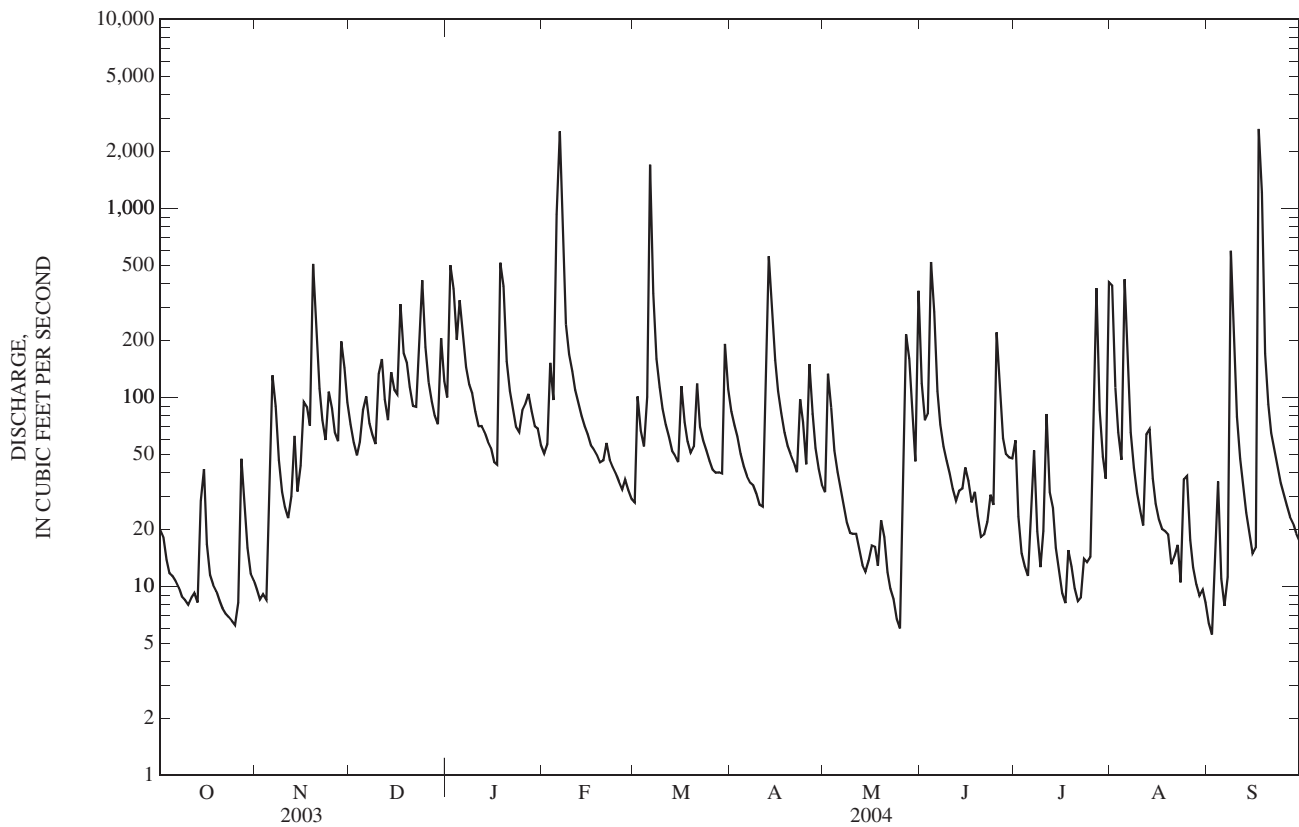
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2004, BY WATER YEAR (WY)

MEAN	28.0	78.6	115	149	159	156	114	87.3	57.5	39.2	29.5	33.5
MAX	133	267	378	372	365	458	413	387	203	110	90.9	186
(WY)	(1990)	(1974)	(1991)	(1974)	(2003)	(1975)	(1998)	(1983)	(1997)	(1978)	(2003)	(2004)
MIN	1.35	5.15	10.4	5.13	56.9	41.9	16.5	9.47	2.39	2.11	2.50	0.32
(WY)	(1981)	(1999)	(1981)	(1981)	(1977)	(1988)	(1986)	(1986)	(1988)	(1975)	(1976)	(1999)

03404900 LYNN CAMP CREEK AT CORBIN, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1974 - 2004	
ANNUAL TOTAL	40,667.1		37,334.5		86.9	
ANNUAL MEAN	111		102		141	
HIGHEST ANNUAL MEAN					36.5	
LOWEST ANNUAL MEAN					4,530	
HIGHEST DAILY MEAN	2,570	Feb 16	2,620	Sep 17		Apr 17, 1998
LOWEST DAILY MEAN	3.9	Aug 29	5.6	Sep 2	0.02	Jun 24, 1988
ANNUAL SEVEN-DAY MINIMUM	5.3	Aug 23	7.3	Oct 20	0.02	Jun 24, 1988
MAXIMUM PEAK FLOW			3,940	Sep 17	9,000	Jan 29, 1957
MAXIMUM PEAK STAGE			11.08	Sep 17	22.50	Jan 29, 1957
INSTANTANEOUS LOW FLOW					0.02	Jun 24, 1988
ANNUAL RUNOFF (CFSM)	2.07		1.90		1.61	
ANNUAL RUNOFF (INCHES)	28.12		25.81		21.94	
10 PERCENT EXCEEDS	228		186		192	
50 PERCENT EXCEEDS	52		48		36	
90 PERCENT EXCEEDS	9.7		11		3.3	

e Estimated



03406500 ROCKCASTLE RIVER AT BILLOWS, KY

LOCATION.--Lat 37°10'16", long 84°17'46", Laurel County, Hydrologic Unit 05130102, on left bank 200 ft upstream from bridge on State Highway 80 at Billows, 0.9 mi upstream from Pine Creek, 1.1 mi downstream from Hawk Creek, 13 mi west of London, and at mile 24.4.

DRAINAGE AREA.--604 mi².

PERIOD OF RECORD.--July 1936 to current year.

REVISED RECORDS.--WSP 1436: Drainage area.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 802.90 ft above NGVD of 1929. Prior to Nov. 19, 1940, nonrecording gage at same site and datum.

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 3	0600	21,900	29.19	May 27	unknown	unknown	unknown
Feb 6	2230	*31,700	*36.10	Sep 19	unknown	unknown	unknown
Mar 6	2000	12,300	20.88				

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	319	229	1,920	1,420	636	318	1,900	873	5,710	238	1,860	86
2	285	207	1,380	8,140	630	485	1,440	1,060	2,640	229	1,190	152
3	251	192	1,100	19,200	1,210	771	1,200	2,330	1,860	904	811	240
4	214	181	960	5,540	2,280	615	990	1,650	4,190	584	586	147
5	194	1,080	1,060	4,190	3,240	611	815	1,270	7,200	830	1,710	117
6	180	5,160	1,120	4,680	26,100	7,920	697	1,010	3,110	1,080	2,780	106
7	166	2,250	1,080	2,980	22,500	6,390	622	792	1,810	1,270	1,260	91
8	149	1,360	993	2,140	4,340	2,750	572	628	1,200	1,030	795	1,280
9	130	956	916	1,690	2,600	1,800	522	508	864	627	553	3,890
10	120	737	884	1,380	1,980	1,360	457	418	746	436	423	1,450
11	122	614	1,430	1,100	1,590	1,070	415	577	608	2,380	351	831
12	121	556	1,310	943	1,310	906	456	390	494	1,890	345	569
13	110	1,710	1,150	849	1,130	763	3,210	318	448	2,190	508	480
14	116	1,460	1,150	758	977	662	5,940	276	444	1,290	434	381
15	223	1,170	1,590	687	880	610	3,740	252	587	844	312	304
16	322	1,680	1,500	624	781	603	2,320	598	816	572	254	257
17	220	1,640	1,910	561	696	740	1,660	2,060	632	427	215	e9,600
18	180	1,410	2,220	1,240	648	617	1,280	798	505	581	191	e21,000
19	159	4,560	1,970	4,170	594	549	1,020	516	407	420	170	5,330
20	145	5,560	1,660	2,400	559	502	860	1,040	342	324	151	1,850
21	132	2,750	1,360	1,680	540	735	758	661	284	269	143	1,180
22	123	1,780	1,210	1,330	510	872	1,180	437	241	247	149	830
23	113	1,320	1,190	1,070	459	745	3,210	341	262	655	144	620
24	104	1,130	2,770	900	423	696	2,340	328	314	468	133	486
25	98	1,340	3,030	826	404	647	1,650	258	288	346	140	401
26	103	1,130	2,080	994	381	586	2,970	503	1,370	991	190	347
27	160	1,000	1,580	1,040	364	547	2,790	e10,000	821	5,550	165	303
28	366	2,730	1,290	921	348	514	1,810	e13,000	488	2,630	136	273
29	368	6,230	1,080	824	328	483	1,330	5,590	355	1,250	119	249
30	298	2,970	1,400	807	---	2,140	1,040	2,420	280	821	103	229
31	262	---	1,680	720	---	3,010	---	5,310	---	738	96	---
TOTAL	5,853	55,092	45,973	75,804	78,438	41,017	49,194	56,212	39,316	32,111	16,417	53,079
MEAN	189	1,836	1,483	2,445	2,705	1,323	1,640	1,813	1,311	1,036	530	1,769
MAX	368	6,230	3,030	19,200	26,100	7,920	5,940	13,000	7,200	5,550	2,780	21,000
MIN	98	181	884	561	328	318	415	252	241	229	96	86
CFSM	0.31	3.04	2.46	4.05	4.48	2.19	2.71	3.00	2.17	1.71	0.88	2.93
IN.	0.36	3.39	2.83	4.67	4.83	2.53	3.03	3.46	2.42	1.98	1.01	3.27

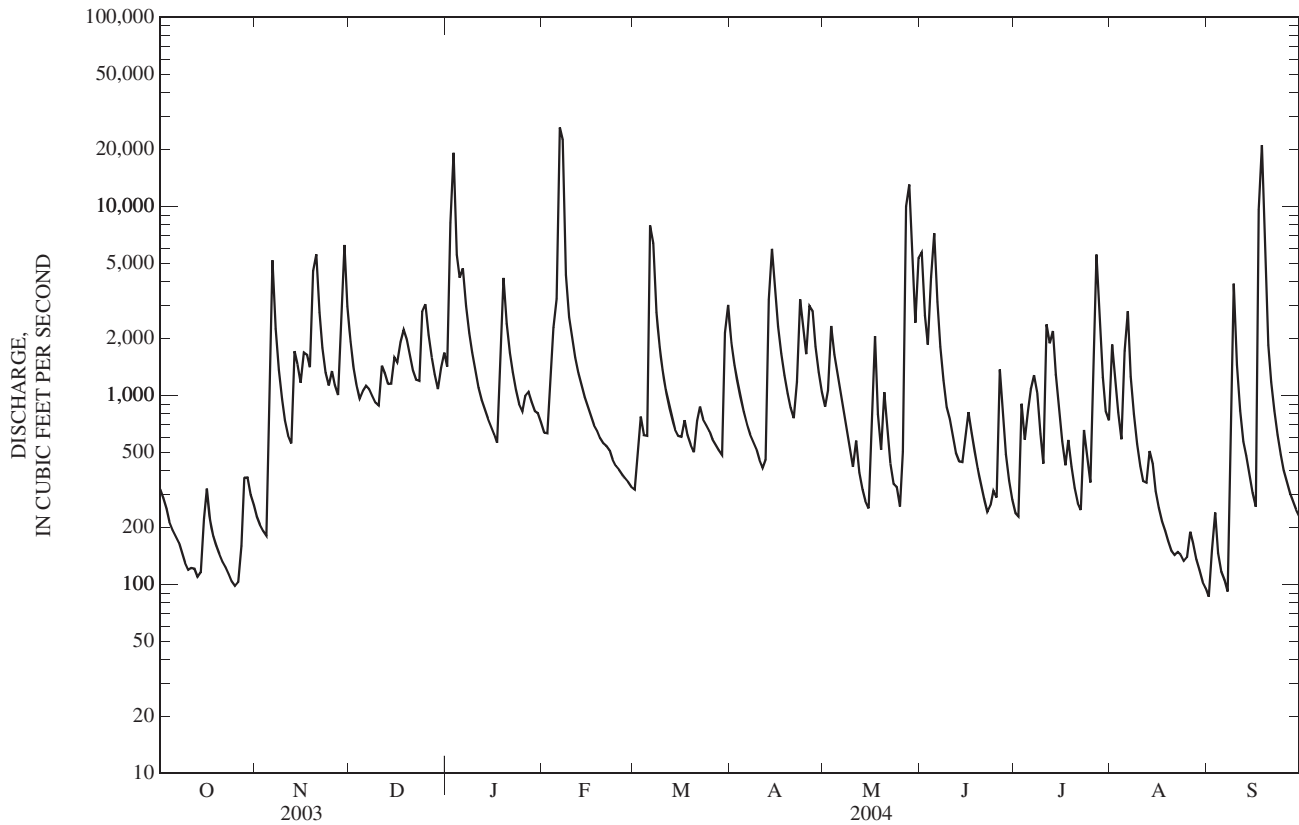
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2004, BY WATER YEAR (WY)

MEAN	198	577	1,243	1,665	1,924	1,963	1,476	990	593	361	211	180
MAX	2,887	2,374	5,279	5,990	5,236	5,860	4,051	4,207	2,862	1,830	1,263	1,769
(WY)	(1990)	(1987)	(1991)	(1937)	(1956)	(1975)	(1972)	(1983)	(1947)	(1941)	(1977)	(2004)
MIN	3.18	11.5	16.5	56.9	208	507	188	115	37.9	10.8	10.1	4.95
(WY)	(1954)	(1954)	(1954)	(1981)	(1941)	(1983)	(1986)	(1941)	(1988)	(1944)	(1957)	(1936)

03406500 ROCKCASTLE RIVER AT BILLOWS, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1936 - 2004	
ANNUAL TOTAL	457,659		548,506		944	
ANNUAL MEAN	1,254		1,499		345	
HIGHEST ANNUAL MEAN					1,575	
LOWEST ANNUAL MEAN					1979	
HIGHEST DAILY MEAN	26,200	Feb 17	26,100	Feb 6	46,200	Dec 9, 1978
LOWEST DAILY MEAN	47	Aug 29	86	Sep 1	0.90	Sep 9, 1957
ANNUAL SEVEN-DAY MINIMUM	64	Aug 23	117	Oct 20	1.4	Sep 11, 1964
MAXIMUM PEAK FLOW			31,700	Feb 6	50,000	Dec 9, 1978
MAXIMUM PEAK STAGE			36.10	Feb 6	47.17	Dec 9, 1978
INSTANTANEOUS LOW FLOW					0.80	Sep 9, 1957
ANNUAL RUNOFF (CFSM)	2.08		2.48		1.56	
ANNUAL RUNOFF (INCHES)	28.19		33.78		21.24	
10 PERCENT EXCEEDS	2,710		2,970		2,150	
50 PERCENT EXCEEDS	610		794		336	
90 PERCENT EXCEEDS	156		180		25	

e Estimated



03410500 SOUTH FORK CUMBERLAND RIVER NEAR STEARNS, KY

LOCATION.--Lat 36°37'47", long 84°31'55", McCreary County, Hydrologic Unit 05130104, on right bank, 400 ft upstream from Salt Branch, 1,000 ft downstream from Bear Creek, 5.3 mi southwest of Stearns, and at mile 49.4.

DRAINAGE AREA.--954 mi².

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--September 1942 to current year.

REVISED RECORDS.--WSP 1113: 1946(M). WSP 1436: Drainage area, WDR KY-96-1 latitude and longitude.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 763.83 ft above NGVD of 1929; prior to Oct. 1, 1980 at site 1,000 ft upstream at datum 0.98 ft higher.

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

COOPERATION.--Kentucky Natural Resources and Environmental Protection Cabinet, National Park Service, and U.S. Army Corps of Engineers, Nashville District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1929 reached a stage of 52.9 ft from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 22,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 6	2000	49,900	32.36	Sep 17	2300	*63,600	*36.88
Mar 6	2000	39,900	28.69				

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	821	337	2,500	2,390	1,540	894	3,780	1,200	4,100	1,280	4,710	578
2	688	312	1,890	2,570	1,400	1,040	2,840	1,400	2,030	980	2,090	371
3	582	297	1,620	3,630	1,430	2,270	2,330	3,760	1,640	937	1,180	371
4	502	288	1,540	e3,100	1,650	2,410	1,940	2,930	4,920	1,090	792	458
5	443	314	1,840	e3,500	4,330	2,030	1,630	2,150	4,190	815	581	364
6	406	971	1,940	7,920	38,200	23,900	1,390	1,670	2,320	890	491	279
7	372	2,570	1,860	4,590	e29,600	14,300	1,240	1,320	1,540	2,370	411	234
8	339	1,890	1,720	3,180	e7,400	5,640	1,160	1,060	1,140	1,580	350	4,400
9	310	1,340	1,580	2,630	e4,000	3,610	1,070	868	937	1,020	298	6,310
10	289	1,040	1,580	2,210	e3,200	2,860	958	1,070	763	686	259	2,740
11	273	883	3,410	1,790	2,710	2,290	868	1,000	623	498	227	1,560
12	266	799	3,150	1,570	2,290	1,930	1,080	938	736	406	228	1,050
13	260	999	2,470	1,480	2,030	1,660	7,690	716	1,280	379	248	797
14	270	1,140	2,300	1,400	1,770	1,450	10,700	571	826	359	353	586
15	348	1,000	2,900	1,310	1,590	1,320	6,310	515	e2,600	318	320	447
16	568	1,040	2,660	1,220	1,460	1,350	4,240	1,180	e1,900	277	249	378
17	447	2,530	2,790	1,110	1,400	1,940	3,040	1,120	e1,200	264	208	33,300
18	356	2,560	3,070	1,510	1,330	1,960	2,390	1,140	e1,500	451	182	33,000
19	314	7,180	2,930	3,750	1,280	2,910	1,930	3,850	e1,100	516	161	6,050
20	289	11,100	2,670	3,120	1,460	2,560	1,630	1,820	e900	387	148	3,060
21	269	5,130	2,250	2,470	1,930	4,100	1,440	1,110	e680	288	199	1,970
22	256	e3,290	1,990	2,070	2,150	4,660	1,290	779	e710	239	219	1,400
23	243	e2,860	1,990	1,760	1,690	3,200	1,270	606	e670	222	224	1,070
24	229	e2,380	4,690	1,530	1,440	2,500	1,350	604	e650	193	262	852
25	221	e2,860	4,920	1,590	1,290	2,040	1,350	451	1,050	254	674	698
26	223	e2,700	3,440	3,900	1,160	1,710	2,260	388	4,210	481	503	572
27	289	2,060	2,650	3,450	1,100	1,500	2,770	772	2,330	3,450	354	481
28	404	2,180	2,190	2,860	1,030	1,350	2,100	1,050	1,350	1,860	268	429
29	539	4,140	1,860	2,340	946	1,230	1,660	1,160	935	965	228	396
30	445	3,370	2,160	2,080	---	3,800	1,380	928	853	616	194	369
31	380	---	2,730	1,810	---	5,710	---	2,840	---	1,790	269	---
TOTAL	11,641	69,560	77,290	79,840	122,806	110,124	75,086	40,966	49,683	25,861	16,880	104,570
MEAN	376	2,319	2,493	2,575	4,235	3,552	2,503	1,321	1,656	834	545	3,486
MAX	821	11,100	4,920	7,920	38,200	23,900	10,700	3,850	4,920	3,450	4,710	33,300
MIN	221	288	1,540	1,110	946	894	868	388	623	193	148	234
CFSM	0.39	2.43	2.61	2.70	4.44	3.72	2.62	1.39	1.74	0.87	0.57	3.65
IN.	0.45	2.71	3.01	3.11	4.79	4.29	2.93	1.60	1.94	1.01	0.66	4.08

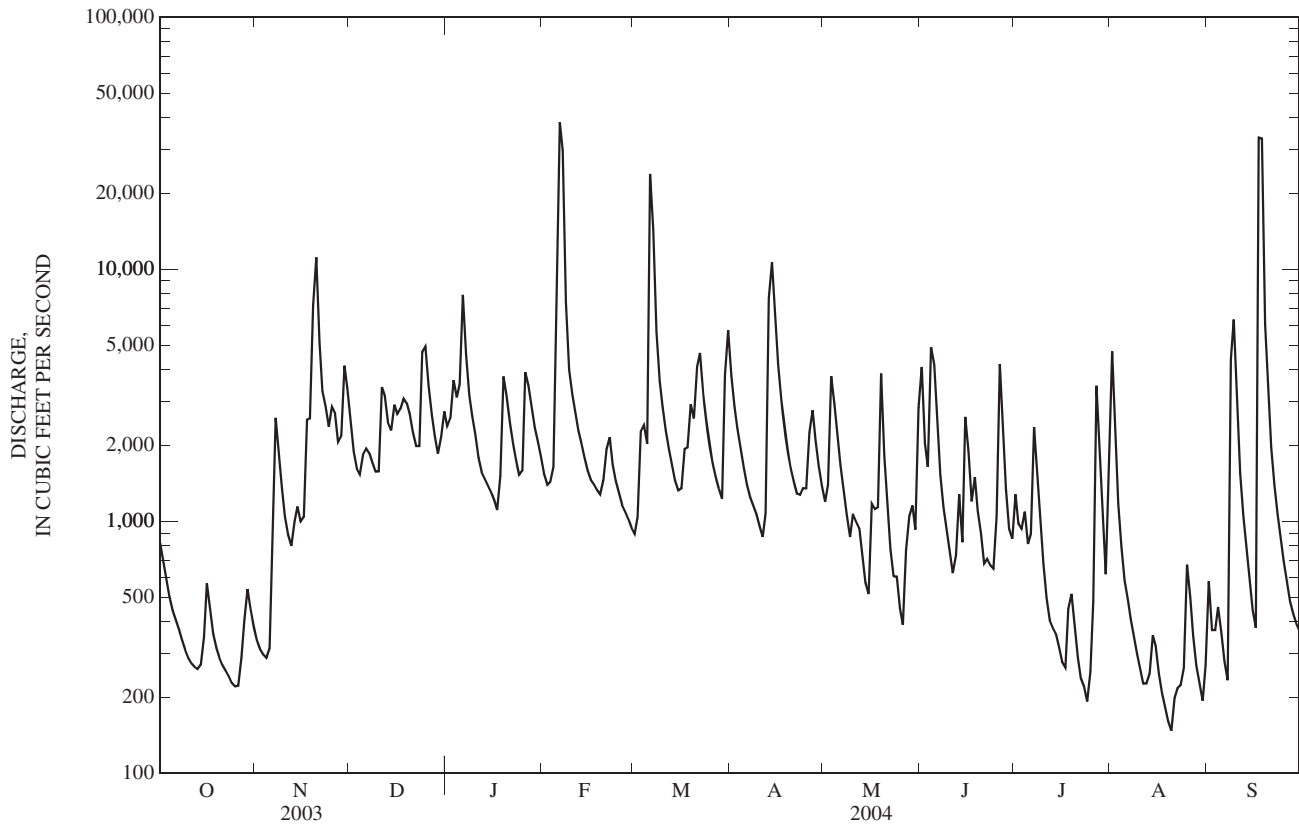
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2004, BY WATER YEAR (WY)

MEAN	373	1,225	2,577	3,275	3,545	3,608	2,586	1,738	1,002	606	409	429
MAX	2,553	4,556	7,388	9,615	8,747	10,580	6,038	6,555	5,152	3,772	2,997	3,486
(WY)	(1990)	(1958)	(1991)	(1950)	(1956)	(1975)	(1977)	(1984)	(1989)	(1967)	(1971)	(2004)
MIN	20.8	30.6	150	145	725	1,200	568	224	72.8	34.5	65.4	29.6
(WY)	(1954)	(1954)	(1964)	(1981)	(1968)	(2003)	(1986)	(1948)	(1988)	(1944)	(1951)	(1953)

03410500 SOUTH FORK CUMBERLAND RIVER NEAR STEARNS, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1943 - 2004	
ANNUAL TOTAL	864,440		784,307		1,773	
ANNUAL MEAN	2,368		2,143		810	
HIGHEST ANNUAL MEAN					3,023	
LOWEST ANNUAL MEAN					810	
HIGHEST DAILY MEAN	48,300	Feb 16	38,200	Feb 6	80,200	Mar 13, 1975
LOWEST DAILY MEAN	116	Aug 29	148	Aug 20	11	Sep 18, 1954
ANNUAL SEVEN-DAY MINIMUM	147	Aug 24	192	Aug 17	12	Sep 13, 1954
MAXIMUM PEAK FLOW			63,600	Sep 17	93,200	May 28, 1973
MAXIMUM PEAK STAGE			36.88	Sep 17	46.29	May 28, 1973
INSTANTANEOUS LOW FLOW					11	Oct 4, 1948
ANNUAL RUNOFF (CFSM)	2.48		2.25		1.86	
ANNUAL RUNOFF (INCHES)	33.71		30.58		25.25	
10 PERCENT EXCEEDS	4,740		3,790		4,020	
50 PERCENT EXCEEDS	1,090		1,350		720	
90 PERCENT EXCEEDS	289		288		82	

e Estimated



03410500 SOUTH FORK CUMBERLAND RIVER NEAR STEARNS, KY

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960-72, 1979 to 1990; July 1999 to Aug. 2000. Oct. 10, 2001 to current water year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--May 1980 to Sept. 1990, July 1999 to Aug. 22, 2000, Oct. 10, 2001 to current water year.

pH.--May 1980 to Sept. 1990, July 1999 to Aug. 22, 2000, Oct. 10, 2001 to current water year.

WATER TEMPERATURES.--May 1980 to Sept. 1990, July 1999 to Aug. 22, 2000. Oct. 10, 2001 to current water year.

DISSOLVED OXYGEN.--May 1980 to Sept. 1990, Oct. 10, 2001 to current water year.

TURBIDITY.--May 1980 to Sept. 1987 (discontinued).

SUSPENDED SEDIMENT DISCHARGE.--May 1980 to Sept. 1990 (discontinued).

INSTRUMENTATION.--Five parameter water-quality monitor and sediment pumping sampler May 1980 to Sept. 1990. Three parameter water-quality monitor from July 1999 to Aug. 22, 2000. Four parameter water-quality monitor with telemetry since Oct. 10, 2001.

REMARKS.--Miscellaneous samples prior to 1979. Miscellaneous measurements values may fall outside the range observed for that day by the water-quality monitor due to minor differences in sampling location.

SPECIFIC CONDUCTANCE.--Records rated good..

pH.--Records rated good except the following periods: Apr. 14-May 14, June 24-Jul. 5 rated fair; Jul. 7-Sep. 30 rated poor.

WATER TEMPERATURES.--Records rated good expect the following periods: Mar. 15-May 14 rated fair; Mar. 2-14 rated poor.

DISSOLVED OXYGEN.--Records rated good except the following period: Oct. 17-Dec. 1 rated fair.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 434 microsiemens, July 17, 1985; minimum recorded, 37 microsiemens, Sep. 17, 2004.

pH.--Maximum recorded, 8.6 units, Aug. 10, 1989; minimum recorded, 5.2 units, May 19, 1980 and Nov. 24, 1980.

WATER TEMPERATURES.--Maximum recorded, 34.6°C, Aug. 31, Sept. 1, 1989; minimum recorded, 0.0 mg/L, Jan. 29, 2002 and Jan. 24-27, 2003.

SEDIMENT CONCENTRATIONS.--Maximum daily mean, 1980 mg/L, Aug. 9, 1981; minimum daily mean, 0.0 mg/L, on several days in 1983-84, 1987-88.

SEDIMENT LOADS.--Maximum daily, 200,000 tons, Sept. 2, 1982; minimum daily, 0.04 tons, Nov. 25, 1987.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 225 microsiemens, Aug. 30; minimum recorded 34 microsiemens, Sept. 17.

pH.--Maximum 8.0 units, Aug. 10, 16-19, 27, Sep. 15; minimum recorded, 6.3 units, Feb. 6.

WATER TEMPERATURES.--Maximum recorded, 27.6°C, July 24; minimum recorded, 1.8°C, Jan. 23-24.

DISSOLVED OXYGEN.--Maximum recorded, 14.9 mg/L, Jan. 23; minimum recorded, 5.4 mg/L, July 13-14.

COOPERATION.--Environmental and Public Protection Cabinet.

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

[illegible]

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	120	120	120	80	80	80	100	100	100
2	---	---	---	120	120	120	80	80	80	100	90	95
3	---	---	---	140	120	123	80	80	80	110	90	99
4	---	---	---	150	140	149	90	80	83	110	100	108
5	---	---	---	150	110	127	90	80	87	100	90	92
6	---	---	---	110	50	68	90	90	90	90	90	90
7	---	---	---	70	70	70	90	90	90	90	90	90
8	---	---	---	80	70	74	90	90	90	90	90	90
9	---	---	---	80	80	80	90	90	90	100	90	96
10	---	---	---	90	80	81	100	90	90	100	100	100
11	---	---	---	90	90	90	100	90	100	110	100	102
12	---	---	---	90	90	90	100	90	98	110	80	97
13	---	---	---	90	90	90	100	80	92	80	80	80
14	---	---	---	100	90	95	100	70	79	84	79	81
15	---	---	---	100	100	100	80	70	74	91	84	89
16	---	---	---	100	100	100	80	80	80	101	91	95
17	---	---	---	100	100	100	80	80	80	114	101	109
18	---	---	---	130	100	120	80	80	80	112	70	90
19	---	---	---	130	110	126	90	80	80	72	45	59
20	---	---	---	110	100	109	90	80	89	45	42	43
21	---	---	---	100	90	98	90	90	90	53	44	49
22	---	---	---	90	90	90	90	90	90	59	53	56
23	---	---	---	90	80	88	90	90	90	64	59	62
24	---	---	---	90	80	84	90	90	90	71	64	67
25	---	---	---	90	80	89	100	90	91	77	71	74
26	---	---	---	90	90	90	100	80	95	80	77	78
27	---	---	---	90	90	90	90	80	82	85	78	83
28	---	---	---	90	90	90	90	90	90	---	---	---
29	---	---	---	100	90	94	100	90	93	---	---	---
30	---	---	---	100	80	88	100	100	100	---	---	---
31	---	---	---	80	80	80	---	---	---	---	---	---
MONTH	---	---	---	150	50	97	100	70	87	---	---	---
JUNE			JULY			AUGUST			SEPTEMBER			
1	---	---	---	112	92	97	---	---	---	197	137	159
2	---	---	---	97	87	92	---	---	---	137	127	131
3	---	---	---	109	87	96	---	---	---	133	127	128
4	---	---	---	114	103	109	77	76	77	163	133	148
5	---	---	---	---	---	---	76	73	75	170	163	168
6	---	---	---	---	---	---	73	72	72	176	170	173
7	---	---	---	86	73	78	76	72	74	178	171	176
8	---	---	---	75	71	72	81	76	79	172	101	154
9	---	---	---	87	75	82	86	81	84	111	96	100
10	---	---	---	87	84	85	89	86	88	109	74	100
11	82	79	80	86	84	84	90	89	89	125	80	98
12	97	82	84	90	86	88	90	89	90	111	59	88
13	92	62	79	95	90	92	91	90	90	62	57	59
14	---	---	---	99	95	97	92	90	91	91	60	76
15	---	---	---	102	99	101	96	92	94	111	91	100
16	---	---	---	105	102	104	101	96	98	114	111	113
17	---	---	---	107	105	106	104	101	102	114	34	71
18	---	---	---	111	107	109	105	104	105	66	55	61
19	---	---	---	121	111	116	106	105	105	76	66	71
20	---	---	---	130	121	126	110	106	108	84	76	80
21	---	---	---	132	130	132	132	110	120	89	84	87
22	---	---	---	134	132	133	142	122	135	95	89	92
23	---	---	---	137	134	136	147	142	145	99	95	96
24	---	---	---	136	128	132	153	144	146	103	99	101
25	133	124	129	128	119	123	154	141	146	106	103	104
26	150	103	130	121	119	120	156	143	146	109	106	108
27	104	96	100	120	62	86	195	156	176	113	109	111
28	108	104	107	67	62	64	212	195	204	115	113	114
29	106	104	104	70	63	67	223	212	218	118	115	117
30	116	104	106	78	70	74	225	223	224	120	118	119
31	---	---	---	92	61	77	223	197	216	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	197	34	110
YEAR	---	---	---									

03410500 SOUTH FORK CUMBERLAND RIVER NEAR STEARNS, KY—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.7	7.5	7.7	7.7	---	---	---	---	---	---	6.7	6.6
2	7.9	7.5	7.8	7.7	---	---	---	---	---	---	6.7	6.6
3	7.8	7.4	7.8	7.7	---	---	---	---	---	---	6.8	6.7
4	7.7	7.5	7.8	7.7	---	---	---	---	---	---	6.9	6.8
5	7.8	7.5	7.8	7.7	---	---	---	---	---	---	6.9	6.8
6	7.8	7.5	7.7	7.7	---	---	---	---	---	---	6.8	6.3
7	7.8	7.5	7.9	7.7	---	---	---	---	---	---	6.6	6.5
8	7.8	7.5	---	---	---	---	---	---	---	---	6.6	6.5
9	7.7	7.5	---	---	---	---	---	---	---	---	6.6	6.5
10	7.7	7.5	---	---	---	---	---	---	---	---	6.7	6.6
11	7.7	7.5	---	---	---	---	---	---	---	---	6.7	6.7
12	7.7	7.5	---	---	---	---	---	---	---	---	6.8	6.7
13	7.7	7.5	---	---	---	---	---	---	---	---	6.8	6.8
14	7.6	7.4	---	---	---	---	---	---	---	---	6.9	6.8
15	7.5	7.3	---	---	---	---	---	---	---	---	6.9	6.8
16	7.5	7.4	---	---	---	---	---	---	---	---	6.9	6.9
17	7.5	7.4	---	---	---	---	---	---	---	---	7.0	6.9
18	7.5	7.4	---	---	---	---	---	---	---	---	7.1	7.0
19	7.5	7.4	---	---	---	---	---	---	---	---	7.1	7.1
20	7.5	7.3	---	---	---	---	---	---	---	---	7.1	6.9
21	7.5	7.3	---	---	---	---	---	---	---	---	6.9	6.9
22	7.5	7.4	---	---	---	---	---	---	---	---	6.9	6.9
23	7.6	7.4	---	---	---	---	---	---	---	---	6.9	6.8
24	7.6	7.5	---	---	---	---	---	---	---	---	6.9	6.8
25	7.6	7.5	---	---	---	---	---	---	---	---	6.9	6.9
26	7.5	7.5	---	---	---	---	---	---	---	---	7.0	6.9
27	7.6	7.5	---	---	---	---	---	---	---	---	7.0	6.9
28	7.6	7.5	---	---	---	---	---	---	---	---	7.1	6.9
29	7.7	7.6	---	---	---	---	---	---	---	---	7.1	7.0
30	7.7	7.6	---	---	---	---	---	---	---	---	7.0	6.9
31	7.7	7.6	---	---	---	---	---	---	---	---	6.9	6.9
MONTH	7.9	7.3	---	---	---	---	---	---	---	---	7.1	6.3
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.9	6.8	7.1	7.0	---	---	7.1	7.0	6.9	6.7	7.7	7.4
2	6.9	6.8	7.0	6.9	---	---	7.1	7.0	---	---	7.5	7.3
3	6.9	6.8	7.1	6.9	---	---	7.2	7.0	7.2	7.1	7.7	7.4
4	7.0	6.8	7.1	7.0	---	---	7.2	7.1	7.4	7.1	7.7	7.4
5	7.0	6.9	7.0	7.0	---	---	7.1	7.1	7.1	7.1	7.9	7.5
6	7.0	6.9	7.1	7.0	---	---	---	---	7.4	7.1	7.9	7.5
7	7.0	6.9	7.1	7.0	---	---	6.9	6.8	7.6	7.1	7.6	7.5
8	7.1	6.9	7.1	6.9	---	---	6.9	6.8	7.8	7.1	7.6	7.1
9	7.1	7.0	7.1	6.9	---	---	7.1	6.9	7.9	7.2	7.2	7.1
10	7.1	7.0	7.1	6.9	6.9	6.7	7.3	6.9	8.0	7.2	7.3	7.2
11	7.1	7.0	7.1	6.9	7.1	6.7	7.3	6.9	7.9	7.1	7.3	7.3
12	7.1	6.9	7.0	6.8	7.1	6.7	7.3	7.0	7.3	7.1	7.4	7.3
13	7.0	6.8	6.8	6.7	6.8	6.7	7.4	7.0	7.4	7.1	7.7	7.3
14	7.0	6.7	7.2	6.7	---	---	7.4	7.1	7.5	7.2	7.9	7.3
15	6.8	6.7	7.3	7.2	---	---	7.4	7.1	7.8	7.2	8.0	7.3
16	6.8	6.7	7.2	7.1	---	---	7.4	7.1	8.0	7.2	7.5	7.4
17	6.9	6.8	7.3	7.2	---	---	7.3	7.1	8.0	7.2	7.4	6.7
18	6.9	6.8	7.2	7.0	---	---	7.3	7.1	8.0	7.2	6.9	6.7
19	7.0	6.9	7.0	6.8	---	---	7.4	7.2	8.0	7.2	7.0	6.9
20	7.0	6.9	6.9	6.7	---	---	7.5	7.2	7.6	7.2	7.1	7.0
21	7.0	6.9	6.9	6.7	---	---	7.6	7.3	7.4	7.2	7.2	7.1
22	7.1	7.0	7.0	6.8	---	---	7.5	7.3	7.7	7.3	7.2	7.2
23	7.0	7.0	7.1	6.9	---	---	7.6	7.2	7.7	7.3	7.2	7.1
24	7.0	6.9	7.1	6.9	7.3	7.2	7.6	7.2	7.6	7.3	7.2	7.1
25	7.1	7.0	7.3	6.9	7.2	7.1	7.4	7.3	7.4	7.2	7.3	7.2
26	7.0	6.8	7.1	6.9	7.2	7.0	7.4	7.2	7.6	7.2	7.4	7.2
27	6.9	6.8	7.2	6.9	7.2	7.1	7.3	6.9	8.0	7.4	7.4	7.3
28	7.0	6.9	6.9	6.8	7.2	7.1	7.0	6.9	7.9	7.5	7.4	7.3
29	7.1	6.9	---	---	7.3	7.2	7.1	7.0	7.8	7.5	7.4	7.3
30	7.1	7.0	---	---	7.3	7.0	7.3	7.0	7.7	7.5	7.5	7.0
31	---	---	---	---	---	---	7.1	6.7	7.8	7.5	---	---
MONTH	7.1	6.7	---	---	---	---	---	---	---	---	8.0	6.7
YEAR	---	---										

03410500 SOUTH FORK CUMBERLAND RIVER NEAR STEARNS, 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	16.7	15.6	16.2	14.4	13.4	13.8	7.1	6.6	6.8	5.3	4.9	5.1
2	15.8	14.9	15.3	14.6	13.6	14.1	6.6	6.2	6.2	6.2	5.2	5.5
3	15.2	14.0	14.6	14.7	13.7	14.2	6.0	5.8	5.8	8.1	6.2	7.0
4	15.1	14.4	14.7	14.8	13.8	14.3	6.0	5.8	5.9	---	---	---
5	15.1	14.4	14.7	15.0	14.5	14.8	6.3	6.0	6.2	10.7	10.5	10.6
6	15.8	14.6	15.0	15.0	14.9	14.9	6.4	6.3	6.4	10.6	7.8	9.6
7	16.1	14.8	15.4	15.0	14.6	14.9	6.3	6.0	6.2	7.8	5.0	6.3
8	16.4	15.2	15.7	15.0	13.6	14.3	6.0	5.6	5.8	5.0	3.8	4.2
9	16.6	15.6	16.1	13.6	12.5	13.0	5.8	5.5	5.6	3.8	3.2	3.4
10	16.6	16.2	16.4	12.5	12.0	12.2	6.2	5.6	5.9	3.2	2.8	3.0
11	17.4	16.4	16.8	12.2	11.9	12.0	6.3	6.0	6.1	2.8	2.3	2.6
12	17.6	16.8	17.2	12.3	12.0	12.1	6.6	6.3	6.4	2.6	2.4	2.5
13	17.9	17.1	17.5	12.3	11.0	11.6	6.3	5.3	5.6	2.7	2.3	2.5
14	17.7	17.1	17.6	11.0	10.3	10.5	5.3	5.0	5.1	3.1	2.5	2.7
15	17.3	16.3	16.8	10.4	10.1	10.3	5.3	4.8	5.0	3.5	3.1	3.3
16	16.7	15.9	16.3	10.2	10.0	10.1	6.1	5.1	5.5	3.4	3.0	3.2
17	16.3	15.8	16.0	10.9	10.1	10.4	6.3	5.9	6.1	3.8	3.2	3.5
18	16.3	15.6	15.8	12.1	10.9	11.3	6.2	5.8	6.0	4.5	3.8	4.1
19	15.9	14.9	15.4	13.8	12.1	12.9	5.8	5.1	5.5	4.6	4.3	4.5
20	15.9	14.8	15.3	13.8	12.1	12.9	5.1	4.2	4.7	4.4	3.7	4.0
21	15.9	14.9	15.4	11.9	11.2	11.6	4.2	3.5	3.7	3.7	2.9	3.1
22	15.9	15.1	15.4	---	---	---	3.5	3.1	3.3	2.9	2.2	2.5
23	15.3	14.5	14.9	---	---	---	4.2	3.3	3.6	2.3	1.8	2.0
24	15.0	13.9	14.4	---	---	---	5.2	4.2	4.8	2.3	1.8	2.0
25	15.0	13.8	14.4	---	---	---	5.5	5.2	5.4	2.8	2.1	2.3
26	14.7	14.3	14.5	8.6	8.5	8.6	5.3	4.5	4.8	5.0	2.8	4.1
27	14.4	13.6	14.1	8.5	8.2	8.3	4.5	3.8	4.0	5.9	5.0	5.6
28	14.1	13.3	13.7	8.6	8.4	8.5	4.0	3.4	3.6	5.7	4.9	5.3
29	14.1	13.5	13.7	8.2	8.3	8.3	4.4	3.7	4.0	4.9	4.1	4.3
30	14.0	13.1	13.5	7.8	7.3	7.6	5.0	4.4	4.7	4.2	3.2	3.7
31	14.2	13.3	13.7	---	---	---	5.4	5.0	5.2	3.2	2.3	2.6
MONTH	17.9	13.1	15.4	---	---	---	7.1	3.1	5.3	---	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	2.3	2.0	2.2	6.9	6.6	6.8	12.2	11.1	11.6	17.0	15.9	16.4
2	2.5	2.0	2.2	8.0	6.9	7.4	11.1	10.1	10.5	16.9	15.7	16.4
3	2.8	2.5	2.6	8.8	7.7	8.1	10.6	9.5	10.1	15.7	14.1	15.1
4	3.3	2.7	3.0	10.3	8.8	9.5	10.8	9.8	10.3	14.1	13.2	13.6
5	4.7	3.1	3.6	11.3	10.2	10.6	11.0	10.0	10.5	14.3	12.9	13.6
6	7.6	4.7	6.4	12.0	11.0	11.5	11.5	10.1	10.8	15.5	14.0	14.8
7	---	---	---	11.4	10.4	10.9	12.1	10.8	11.4	17.1	15.4	16.2
8	---	---	---	10.4	9.0	9.7	13.2	11.8	12.4	18.3	16.4	17.3
9	---	---	---	9.0	7.9	8.4	14.0	12.6	13.2	19.4	17.7	18.5
10	---	---	---	8.0	7.3	7.7	13.6	13.2	13.4	19.8	18.6	19.2
11	---	---	---	7.5	6.8	7.0	13.5	13.1	13.3	20.7	19.6	20.0
12	---	---	---	7.1	6.4	6.8	13.1	12.1	12.7	21.1	20.0	20.4
13	---	---	---	7.4	6.6	7.0	12.1	9.8	11.0	20.5	19.4	19.9
14	---	---	---	7.5	7.1	7.3	9.9	9.2	9.5	21.0	19.7	20.3
15	---	---	---	8.0	7.2	7.6	10.3	9.4	9.8	20.7	20.2	20.5
16	---	---	---	9.0	8.0	8.5	11.8	10.1	10.9	20.9	20.3	20.6
17	---	---	---	9.4	8.9	9.1	13.4	11.5	12.3	21.1	20.5	20.7
18	---	---	---	10.4	9.3	9.9	15.1	13.0	13.9	20.7	19.5	20.2
19	---	---	---	11.0	9.9	10.4	15.8	14.7	15.3	19.5	17.8	18.6
20	---	---	---	10.7	9.8	10.3	16.4	15.8	16.1	19.1	17.8	18.4
21	---	---	---	10.7	10.0	10.3	16.9	16.0	16.4	20.6	19.0	19.7
22	---	---	---	10.0	8.7	9.5	17.5	16.3	16.9	21.2	20.1	20.6
23	---	---	---	8.7	7.7	8.1	17.4	16.8	17.1	22.3	20.5	21.4
24	---	---	---	8.7	7.5	8.1	18.1	16.9	17.4	22.6	21.2	21.9
25	---	---	---	10.1	8.4	9.2	18.4	17.8	18.1	23.5	21.8	22.6
26	---	---	---	11.5	10.1	10.7	18.1	16.7	17.5	23.3	22.5	22.9
27	---	---	---	13.0	11.4	12.3	16.7	15.8	16.1	23.1	22.0	22.5
28	---	---	---	14.4	12.6	13.4	15.9	14.9	15.4	22.6	21.8	22.2
29	---	---	---	14.8	13.9	14.4	15.9	15.0	15.5	---	---	---
30	---	---	---	14.8	13.7	14.2	16.5	15.5	15.9	---	---	---
31	---	---	---	13.7	12.2	12.9	---	---	---	---	---	---
MONTH	---	---	---	14.8	6.4	9.6	18.4	9.2	13.5	---	---	---

03410500 SOUTH FORK CUMBERLAND RIVER NEAR STEARNS, 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	9.5	9.1	9.3	9.6	8.6	9.0	11.6	11.2	11.5	13.8	13.2	13.6
2	9.8	8.9	9.3	9.5	8.6	9.0	---	---	---	13.8	13.2	13.6
3	9.7	9.1	9.4	9.8	8.4	9.0	11.9	11.5	11.8	13.2	12.5	13.0
4	9.7	9.0	9.3	9.8	8.8	9.2	11.8	11.5	11.8	---	---	---
5	9.8	8.9	9.4	9.6	8.7	9.1	12.1	11.4	11.6	---	---	---
6	9.8	9.3	9.5	10.1	8.8	9.6	12.2	11.8	12.1	12.5	11.2	11.7
7	9.8	9.2	9.5	10.1	9.8	9.9	12.7	12.2	12.5	13.6	12.5	13.0
8	9.8	9.1	9.4	12.2	10.1	11.7	13.1	12.6	12.9	14.2	13.5	13.9
9	9.7	8.8	9.3	12.4	12.1	12.3	13.2	12.8	13.0	14.3	13.8	14.2
10	9.5	8.8	9.1	12.6	12.2	12.4	13.0	12.5	12.7	14.4	13.8	14.2
11	9.4	8.7	9.0	12.4	11.7	12.2	12.7	12.4	12.5	14.5	14.0	14.3
12	9.1	8.5	8.8	12.1	11.2	11.5	12.5	12.2	12.3	14.4	14.0	14.2
13	8.9	8.3	8.7	11.6	11.1	11.3	12.8	12.2	12.5	14.5	14.1	14.3
14	8.7	8.2	8.5	12.8	11.4	12.2	12.9	12.6	12.7	14.3	13.8	14.1
15	9.2	8.2	8.6	12.6	11.9	12.3	13.6	12.7	13.3	13.9	13.5	13.7
16	9.2	8.4	8.8	12.4	12.1	12.2	13.6	13.0	13.4	13.9	13.5	13.7
17	8.9	8.5	8.8	12.4	12.1	12.3	13.2	12.9	13.1	13.7	13.4	13.6
18	9.1	8.5	8.8	12.8	11.8	12.3	13.2	12.8	13.1	13.4	12.8	13.2
19	9.2	8.6	8.9	11.9	10.8	11.3	13.4	13.1	13.2	13.4	12.9	13.1
20	9.5	8.7	9.0	11.8	10.5	11.2	13.9	13.2	13.6	13.8	13.4	13.6
21	9.8	8.8	9.2	12.0	11.2	11.6	14.4	13.8	14.1	14.4	13.8	14.1
22	9.4	8.5	8.9	---	---	---	14.5	14.1	14.3	14.7	14.1	14.4
23	9.2	8.2	8.8	---	---	---	14.4	13.8	14.1	14.9	14.1	14.6
24	9.1	8.4	8.7	---	---	---	14.0	13.5	13.8	14.9	14.3	14.6
25	8.9	8.1	8.5	---	---	---	14.2	13.4	13.8	14.6	13.8	14.3
26	8.7	7.8	8.3	11.4	11.2	11.3	14.2	13.6	14.0	14.2	13.2	13.6
27	9.3	8.2	8.8	11.3	11.0	11.2	14.4	14.1	14.3	13.3	12.5	12.8
28	9.1	8.5	8.9	11.2	10.8	11.0	14.6	14.3	14.5	13.1	12.6	12.9
29	9.2	8.5	8.9	11.4	10.8	11.2	14.4	14.0	14.2	13.4	12.8	13.2
30	9.2	8.5	8.9	11.3	11.1	11.2	14.3	13.7	13.9	13.8	13.1	13.4
31	9.3	8.6	9.0	---	---	---	13.8	13.4	13.6	14.2	13.1	13.8
MONTH	9.8	7.8	9.0	---	---	---	---	---	---	---	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	14.5	13.8	14.1	---	---	---	10.4	9.9	10.1	8.9	8.6	8.8
2	14.4	13.7	14.2	11.6	11.5	11.6	10.6	10.1	10.3	8.7	8.4	8.6
3	14.3	13.8	14.1	11.6	11.2	11.4	10.8	10.3	10.5	9.2	8.6	8.9
4	14.2	13.7	14.0	11.2	10.7	11.0	10.7	10.2	10.4	9.4	9.2	9.3
5	14.2	13.4	13.8	10.7	10.2	10.5	10.5	10.1	10.3	9.4	9.0	9.3
6	14.0	12.8	13.7	11.1	9.1	10.6	10.4	10.1	10.3	9.2	8.8	9.0
7	---	---	---	11.2	10.7	10.9	10.2	9.8	10.0	8.8	8.4	8.6
8	---	---	---	11.2	10.8	11.0	9.9	9.6	9.8	8.5	8.1	8.3
9	---	---	---	11.4	11.1	11.3	9.7	9.3	9.5	8.1	7.6	7.9
10	---	---	---	11.8	11.4	11.6	9.4	9.2	9.3	8.2	7.6	7.9
11	---	---	---	11.9	11.6	11.8	9.4	9.1	9.3	8.5	8.1	8.3
12	---	---	---	12.0	11.6	11.8	9.5	9.1	9.3	8.2	7.9	8.0
13	---	---	---	11.9	11.6	11.8	10.9	9.4	10	7.9	7.7	7.8
14	---	---	---	11.8	11.6	11.7	11.2	10.8	11.1	8.4	7.7	8.0
15	---	---	---	11.6	11.3	11.5	11.2	10.9	11.1	8.3	7.9	8.1
16	---	---	---	11.3	10.9	11.2	10.9	10.3	10.7	8.3	8.0	8.1
17	---	---	---	11.0	10.8	10.9	10.6	10.0	10.3	8.3	7.9	8.1
18	---	---	---	10.9	10.6	10.8	10.1	9.6	10.0	8.3	8.0	8.1
19	---	---	---	10.8	10.4	10.6	9.7	9.3	9.6	8.6	8.3	8.5
20	---	---	---	10.8	10.4	10.7	9.4	9.1	9.2	8.7	8.3	8.5
21	---	---	---	11.0	10.4	10.7	9.2	8.9	9.0	8.3	7.8	8.1
22	---	---	---	11.3	11.0	11.1	9.1	8.8	8.9	8.0	7.6	7.8
23	---	---	---	11.6	11.2	11.5	8.9	8.6	8.7	7.9	7.4	7.7
24	---	---	---	11.7	11.2	11.5	8.7	8.5	8.6	8.0	7.4	7.7
25	---	---	---	11.4	10.8	11.2	8.6	8.4	8.5	7.8	7.2	7.5
26	---	---	---	10.9	10.4	10.6	8.7	8.3	8.5	7.7	7.2	7.4
27	---	---	---	10.4	9.9	10.2	9.0	8.7	8.8	8.0	7.4	7.7
28	---	---	---	10.0	9.4	9.8	9.3	8.8	9.1	7.6	7.4	7.5
29	---	---	---	9.5	9.2	9.4	9.3	9.0	9.1	---	---	---
30	---	---	---	9.7	9.1	9.4	9.1	8.8	8.9	---	---	---
31	---	---	---	10.1	9.7	9.9	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	11.2	8.3	9.6	---	---	---

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03410600 SOUTH FORK CUMBERLAND RIVER AT YAMACRAW, KY

LOCATION.--Lat 36°43'32", long 84°32'38", McCreary County, Hydrologic Unit 05130104, on left bank 200 ft upstream of bridge on State Highway 92 at Yamacraw, 700 feet upstream from Wolf Creek, 0.6 mile downstream from Rock Creek, and at mile 40.3.

DRAINAGE AREA.--1,083 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1999 to September 30, 2000, October 1, 2002 to current year.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 711.166 ft above NGVD of 1929.

REMARKS.--Records poor.

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

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	992	429	3,050	2,690	e1,850	e1,050	e4,710	e1,500	e5,500	e1,600	8,500	634
2	837	395	2,290	3,450	e1,650	e1,820	e3,750	e1,900	e3,190	e1,150	3,210	461
3	732	375	1,830	4,750	e1,720	e3,150	e3,100	e5,100	e2,280	e1,100	1,770	425
4	652	362	1,660	3,840	1,790	e3,150	e2,600	e3,740	e6,200	e1,300	1,160	515
5	586	398	1,890	4,010	6,420	e2,670	e2,260	e3,000	e4,950	e960	957	446
6	539	937	2,120	9,750	43,800	26,400	e1,970	e2,310	e3,190	e1,000	885	358
7	500	2,800	2,030	5,810	32,100	e17,900	e1,740	e1,850	e2,130	e3,480	726	308
8	461	2,120	1,870	3,890	e8,000	e11,000	e1,500	e1,400	e1,400	e2,310	586	4,050
9	424	1,490	1,710	3,070	e4,600	e5,990	e1,400	e1,100	e1,100	e1,620	451	8,070
10	396	1,160	1,730	2,510	e3,600	e4,040	e1,200	e1,300	e900	e1,000	368	3,280
11	380	967	3,720	1,990	e3,000	e3,060	e1,100	e1,200	e760	e700	326	1,800
12	371	877	3,740	1,720	e2,600	e2,600	e1,300	e1,100	e1,000	e460	322	1,200
13	364	1,150	2,800	1,610	e2,300	e2,100	14,500	e900	e1,600	e440	364	903
14	373	1,290	2,520	1,510	e2,000	e1,800	e12,900	e680	e1,100	e420	419	695
15	472	1,140	3,230	1,420	e1,800	e1,600	e8,340	e620	e3,640	e400	427	563
16	657	1,130	2,990	1,310	e1,700	e1,700	e5,220	e1,400	e2,850	e320	341	482
17	e580	2,640	3,110	1,190	e1,600	e2,660	e3,860	e1,300	e1,500	e300	295	34,400
18	e473	2,890	3,580	2,060	e1,500	e2,490	e3,030	e1,350	e1,900	e520	262	39,200
19	e421	7,100	3,430	4,850	e1,600	e3,460	e2,400	e5,150	e1,500	e640	241	8,400
20	385	13,800	3,090	3,990	e1,800	e3,120	e2,000	e2,780	e1,100	e500	222	4,050
21	369	6,380	2,530	2,950	e2,300	e4,550	e1,800	e1,730	e810	e360	271	2,460
22	350	3,800	2,210	2,390	e2,760	e5,240	e1,650	e1,100	e840	e270	374	1,680
23	337	2,670	2,180	1,990	e2,220	e3,870	e1,550	e740	e820	e250	311	1,250
24	317	2,220	5,600	1,700	e1,910	e3,240	e1,600	e700	e800	e230	350	947
25	307	2,810	6,230	1,690	e1,700	e2,660	e1,550	e560	e1,200	e300	679	761
26	305	2,660	4,220	4,450	e1,450	e2,200	e2,910	e480	e5,780	602	648	634
27	364	2,230	3,110	4,090	e1,300	e1,900	e3,320	e800	e3,310	4,050	464	544
28	498	2,430	2,480	3,310	e1,200	e1,700	e2,910	e1,200	e2,230	2,370	358	488
29	635	4,880	2,070	e2,820	e1,100	e1,500	e2,310	e1,400	e1,300	1,210	308	449
30	561	4,130	2,370	e2,400	---	e4,780	e1,850	e1,150	e1,050	783	272	420
31	479	---	3,140	e2,100	---	e7,310	---	e3,790	---	2,740	268	---
TOTAL	15,117	77,660	88,530	95,310	141,370	140,710	100,330	53,330	65,930	33,385	26,135	119,873
MEAN	488	2,589	2,856	3,075	4,875	4,539	3,344	1,720	2,198	1,077	843	3,996
MAX	992	13,800	6,230	9,750	43,800	26,400	14,500	5,150	6,200	4,050	8,500	39,200
MIN	305	362	1,660	1,190	1,100	1,050	1,100	480	760	230	222	308
CFSM	0.45	2.39	2.64	2.84	4.50	4.19	3.09	1.59	2.03	0.99	0.78	3.69
IN.	0.52	2.67	3.04	3.27	4.86	4.83	3.45	1.83	2.26	1.15	0.90	4.12

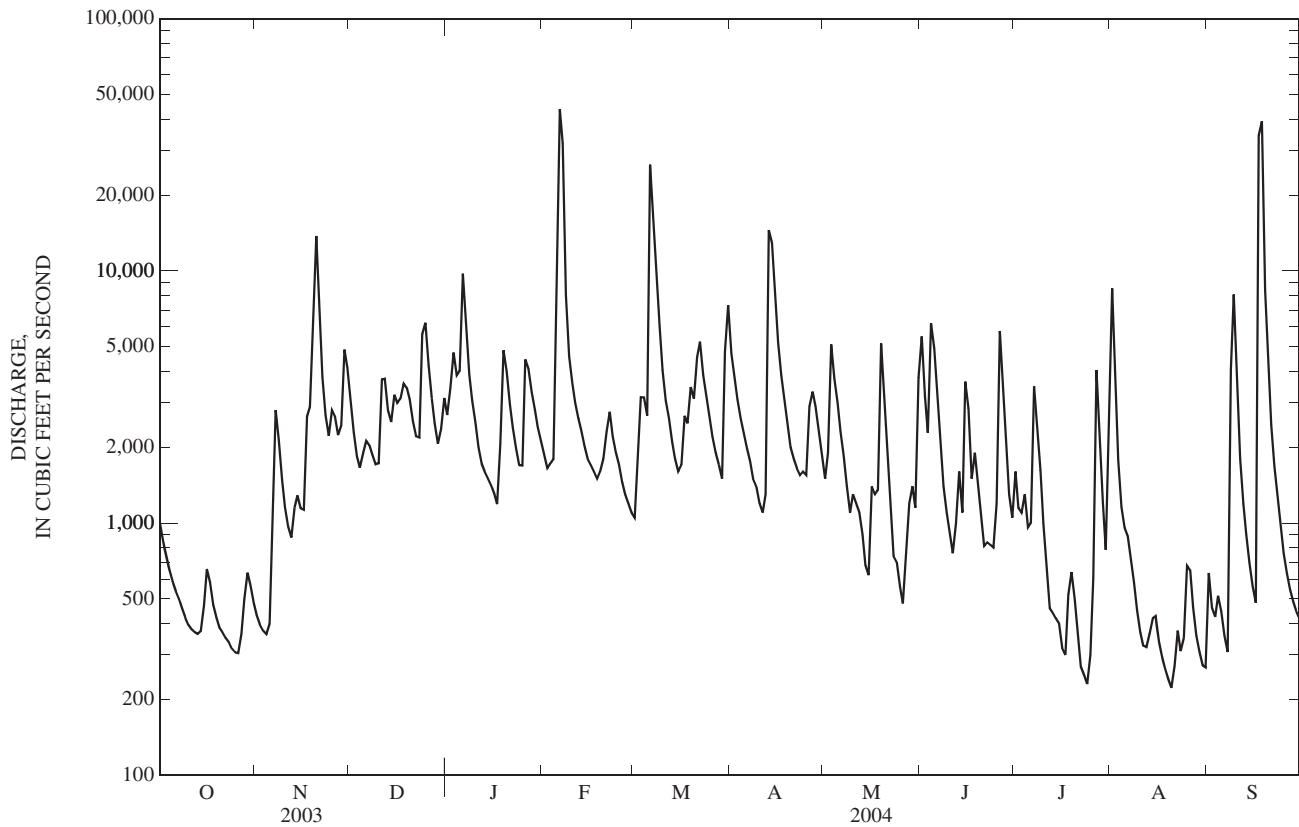
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	311	1,520	2,679	1,671	4,927	2,812	4,790	2,681	1,872	1,023	510	1,857
MAX	488	2,589	4,877	3,075	7,876	4,539	6,502	4,448	2,696	2,092	843	3,996
(WY)	(2004)	(2004)	(2003)	(2004)	(2003)	(2004)	(2003)	(2003)	(2003)	(1999)	(2004)	(2004)
MIN	75.6	137	305	959	2,131	1,394	3,344	1,720	718	255	180	40.3
(WY)	(2000)	(2000)	(2000)	(2003)	(2000)	(2003)	(2004)	(2004)	(2000)	(2000)	(1999)	(1999)

03410600 SOUTH FORK CUMBERLAND RIVER AT YAMACRAW, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	1,033,199		957,680		2,229	
ANNUAL MEAN	2,831		2,617		2,930	
HIGHEST ANNUAL MEAN					1,143	
LOWEST ANNUAL MEAN					25	
HIGHEST DAILY MEAN	35,300	Feb 16	43,800	Feb 6	43,800	Feb 6, 2004
LOWEST DAILY MEAN	154	Aug 29	222	Aug 20	25	Sep 27, 1999
ANNUAL SEVEN-DAY MINIMUM	187	Aug 24	282	Aug 17	25	Sep 26, 1999
MAXIMUM PEAK FLOW			74,800	Sep 17	74,800	Sep 17, 2004
MAXIMUM PEAK STAGE			33.46	Sep 17	33.46	Sep 17, 2004
ANNUAL RUNOFF (CFSM)	2.61		2.42		2.06	
ANNUAL RUNOFF (INCHES)	35.49		32.90		27.97	
10 PERCENT EXCEEDS	6,000		4,720		4,560	
50 PERCENT EXCEEDS	1,300		1,670		1,050	
90 PERCENT EXCEEDS	380		374		150	

e Estimated



03410600 SOUTH FORK CUMBERLAND RIVER AT YAMACRAW, KY—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Oct. 1, 2002 to current water year.

INSTRUMENTATION.--Four parameter water-quality monitor with telemetry since Oct. 1, 2002.

REMARKS.--

SPECIFIC CONDUCTANCE.--Records rated good except the following periods: Nov. 21-25, Aug.15-22 rated fair; Aug. 23-Sep.22 rated poor.

pH.--Records rated good.

WATER TEMPERATURE.--Records rated good

DISSOLVED OXYGEN.--Records rated good expect the following periods: Oct. 20-30, Nov. 13-Dec. 26, Jan. 14-26, and Mar. 17-Apr. 12 rated poor.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 421 microsiemens, Mar 16; minimum recorded 27 microsiemens, Sep. 18.

pH.--Maximum 7.7 units, Jul. 27; minimum recorded, 6.7 units, June 10-19.

WATER TEMPERATURE.--Maximum recorded, 28.8°C, Aug. 27; minimum recorded, 1.2°C, Jan. 23-24.

DISSOLVED OXYGEN.--Maximum recorded, 15.0 mg/L, Nov. 26; minimum recorded, 4.7 mg/L, Aug. 30-31.

COOPERATION.--Environmental and Public Protection Cabinet.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 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	117	113	116	146	142	144	93	87	90	95	92	93
2	118	114	116	143	141	142	89	86	87	95	86	90
3	120	116	117	143	142	142	88	87	87	90	86	88
4	120	118	118	146	143	144	89	88	88	89	86	87
5	120	116	118	147	145	146	90	89	89	88	84	86
6	121	118	119	145	133	142	94	90	92	112	78	95
7	121	118	119	155	127	134	95	94	95	90	80	82
8	123	119	120	159	139	151	99	94	97	82	80	81
9	123	119	121	139	134	136	101	99	100	83	82	83
10	126	121	122	134	115	125	102	96	100	86	83	85
11	128	121	124	115	106	109	98	92	94	91	86	88
12	130	123	126	106	101	103	113	98	110	95	91	93
13	130	124	126	101	96	99	106	92	97	95	93	94
14	130	126	128	96	92	94	92	88	90	97	94	96
15	129	125	127	92	90	91	93	88	89	98	97	97
16	126	121	124	96	92	94	94	92	93	100	98	98
17	121	120	121	104	96	99	94	92	93	101	99	100
18	---	---	---	106	90	100	94	91	92	106	88	99
19	---	---	---	93	78	85	94	89	91	94	84	88
20	137	133	135	105	92	99	91	89	90	98	89	94
21	142	136	139	98	90	92	94	91	93	93	89	91
22	153	142	147	97	91	95	92	89	90	93	89	92
23	156	150	154	102	95	98	89	88	89	89	87	88
24	156	154	156	108	102	105	88	80	84	89	87	88
25	157	154	156	112	99	107	90	86	88	90	88	89
26	155	148	150	100	94	97	89	87	88	---	---	---
27	148	144	146	99	94	97	88	85	86	---	---	---
28	146	140	142	99	87	95	86	85	85	---	---	---
29	141	139	140	96	84	87	87	85	86	---	---	---
30	141	140	140	98	93	96	89	87	88	---	---	---
31	146	141	144	---	---	---	95	88	91	---	---	---
MONTH	---	---	---	159	78	112	113	80	91	---	---	---

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	---	---	---	124	122	123	82	79	80	104	101	102
2	---	---	---	128	124	127	82	81	81	103	96	102
3	---	---	---	127	122	125	82	80	81	119	88	96
4	---	---	---	152	126	142	84	81	83	122	111	115
5	---	---	---	152	129	140	87	84	86	112	96	103
6	---	---	---	130	66	84	90	87	89	98	94	95
7	---	---	---	164	86	112	93	90	92	97	95	96
8	---	---	---	246	136	208	95	93	94	99	97	98
9	---	---	---	326	246	286	98	94	96	102	99	100
10	---	---	---	339	315	330	101	98	99	103	102	102
11	---	---	---	329	301	315	103	101	102	109	102	106
12	---	---	---	321	303	311	106	102	104	113	109	111
13	---	---	---	348	321	335	102	82	92	113	92	103
14	---	---	---	381	348	365	100	74	84	92	73	84
15	---	---	---	411	381	396	75	73	74	89	83	78
16	---	---	---	421	100	239	78	73	75	95	81	93
17	---	---	---	102	100	100	82	78	79	104	95	98
18	---	---	---	118	101	107	84	82	83	116	103	110
19	126	121	123	140	118	131	87	84	85	104	61	72
20	120	116	118	132	108	116	89	87	88	62	52	55
21	125	117	120	108	95	102	92	88	91	56	52	53
22	140	125	134	95	92	94	94	91	93	61	55	57
23	140	136	139	92	87	89	99	94	97	69	66	68
24	136	129	133	87	86	86	101	97	99	---	---	---
25	130	122	126	88	86	87	101	97	98	---	---	---
26	122	120	121	91	88	90	104	99	101	---	---	---
27	122	120	120	94	91	92	104	85	92	97	83	87
28	123	119	121	98	94	96	94	85	90	92	84	88
29	123	120	122	100	77	96	98	94	96	90	83	86
30	---	---	---	100	77	89	102	97	99	97	90	92
31	---	---	---	84	77	80	---	---	---	115	93	103
MONTH	---	---	---	421	66	164	106	73	90	---	---	---
JUNE				JULY			AUGUST			SEPTEMBER		
1	110	91	103	116	103	108	156	70	118	192	181	188
2	104	99	101	---	---	---	179	70	121	181	133	150
3	99	95	97	---	---	---	84	82	82	133	112	118
4	95	69	84	---	---	---	84	80	82	113	103	106
5	75	66	71	---	---	---	88	82	85	118	104	111
6	84	73	80	---	---	---	87	82	85	137	116	128
7	87	83	85	96	85	89	84	80	82	140	134	138
8	92	87	90	83	74	77	84	81	83	145	98	133
9	90	86	88	81	74	77	88	83	85	147	114	124
10	91	87	88	90	81	86	93	87	89	116	109	112
11	93	90	91	91	90	90	98	91	93	116	105	111
12	99	92	94	91	85	89	100	96	97	125	116	120
13	99	80	84	97	91	95	100	96	98	125	122	123
14	88	79	83	101	97	99	97	92	94	126	122	124
15	87	80	83	103	101	102	92	89	90	138	123	130
16	96	87	92	108	103	105	94	90	92	146	138	143
17	115	96	105	110	108	109	98	94	95	146	31	131
18	134	115	122	113	110	112	103	97	99	48	27	36
19	134	115	121	113	110	111	105	101	102	61	46	53
20	133	116	124	115	113	114	107	104	105	78	61	70
21	158	133	148	---	---	---	109	106	107	89	78	83
22	171	158	167	---	---	---	108	102	105	97	88	93
23	179	171	177	---	---	---	118	104	109	105	96	100
24	177	145	165	---	---	---	125	115	120	108	101	103
25	145	131	134	---	---	---	129	124	126	111	105	108
26	151	133	141	---	---	---	128	122	124	113	108	110
27	133	109	116	125	74	104	126	122	124	116	111	113
28	119	109	114	77	73	75	141	124	133	118	114	116
29	121	118	120	77	72	74	161	139	151	122	118	120
30	120	117	118	81	76	79	174	158	168	124	121	122
31	---	---	---	110	70	81	185	173	180	---	---	---
MONTH	179	66	110	---	---	---	185	70	107	192	27	114
YEAR	---	---	---									

03410600 SOUTH FORK CUMBERLAND RIVER AT YAMACRAW, KY—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.2	7.2	7.2	7.0	7.0	7.0	6.9	6.9	---	---	7.3	7.2
2	7.3	7.2	7.2	7.0	7.0	6.9	6.9	6.8	---	---	7.2	7.2
3	7.3	7.2	7.2	7.0	6.9	6.9	6.8	6.8	---	---	7.3	7.2
4	7.3	7.2	7.2	7.0	6.9	6.9	6.8	6.7	---	---	7.3	7.3
5	7.3	7.2	7.2	7.0	6.9	6.9	6.8	6.7	---	---	7.4	7.3
6	7.3	7.2	7.1	7.0	7.0	6.9	6.9	6.8	---	---	7.3	6.8
7	7.3	7.2	7.2	7.1	7.0	7.0	6.9	6.8	---	---	6.8	6.7
8	7.3	7.2	7.2	7.2	7.0	7.0	6.8	6.6	---	---	6.9	6.7
9	7.3	7.2	7.2	7.1	7.0	7.0	6.7	6.6	---	---	7.0	6.9
10	7.2	7.2	7.2	7.1	7.0	7.0	6.8	6.7	---	---	7.1	7.0
11	7.3	7.2	7.2	7.1	7.0	6.9	6.8	6.6	---	---	7.1	7.1
12	7.3	7.2	7.1	7.1	7.0	6.9	6.7	6.6	---	---	7.1	7.1
13	7.3	7.2	7.1	7.0	7.0	6.9	6.7	6.6	---	---	7.1	7.1
14	7.2	7.2	7.1	7.1	6.9	6.8	6.7	6.6	---	---	7.1	7.1
15	7.2	7.1	7.1	7.1	6.9	6.8	6.7	6.7	---	---	7.1	7.1
16	7.2	7.1	7.1	7.1	6.9	6.9	6.7	6.7	---	---	7.4	7.1
17	7.2	7.1	7.2	7.1	6.9	6.9	6.7	6.7	---	---	7.2	7.1
18	---	---	7.2	7.1	6.9	6.9	6.7	6.6	---	---	7.2	7.2
19	---	---	7.1	7.1	6.9	6.9	6.8	6.6	7.2	7.1	7.4	7.2
20	7.4	7.2	7.1	6.9	6.9	6.8	6.8	6.7	7.2	7.2	7.4	7.3
21	7.4	7.2	7.0	7.0	6.9	6.8	6.7	6.7	7.3	7.2	7.3	7.3
22	7.5	7.2	7.0	6.9	6.9	6.8	6.7	6.7	7.4	7.3	7.3	7.2
23	7.4	7.1	7.0	6.7	6.9	6.8	6.7	6.6	7.4	7.3	7.2	7.2
24	7.4	7.1	6.8	6.7	6.8	6.8	6.7	6.6	7.3	7.3	7.2	7.2
25	7.3	7.0	7.0	6.8	6.8	6.8	6.7	6.6	7.3	7.2	7.2	7.2
26	7.2	7.0	7.0	6.9	6.8	6.8	7.0	6.6	7.3	7.2	7.2	7.2
27	7.1	6.9	7.0	7.0	6.8	6.7	---	---	7.3	7.2	7.2	7.1
28	7.1	6.9	7.0	7.0	6.8	6.7	---	---	7.3	7.2	7.2	7.1
29	7.2	6.9	7.0	7.0	6.8	6.7	---	---	7.2	7.2	7.2	7.0
30	7.1	6.9	7.1	7.0	6.8	6.8	---	---	---	---	7.2	7.0
31	7.2	6.9	---	---	6.9	6.8	---	---	---	---	7.2	7.1
MONTH	---	---	7.2	6.7	7.0	6.7	---	---	---	---	7.4	6.7
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.1	7.1	6.8	6.7	6.8	6.7	7.1	6.4	7.1	6.6	7.5	7.3
2	7.1	7.1	6.9	6.6	6.7	6.4	7.1	6.1	7.2	6.9	7.4	7.3
3	7.1	7.1	7.0	6.7	6.4	6.3	6.6	6.1	7.2	7.0	7.4	7.3
4	7.1	7.1	7.0	6.9	6.6	6.4	6.1	6.1	7.2	7.1	7.4	7.3
5	7.1	7.1	7.0	6.8	6.5	6.3	6.2	6.1	7.1	7.1	7.4	7.2
6	7.2	7.1	6.9	6.8	6.4	6.3	6.2	6.1	7.2	7.0	7.4	7.2

03410600 SOUTH FORK CUMBERLAND RIVER AT YAMACRAW, 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	17.0	15.9	16.4	14.9	13.6	14.2	7.3	6.3	6.8	4.8	4.5	4.7
2	15.9	15.0	15.5	15.4	14.1	14.6	6.3	5.7	6.0	6.4	4.8	5.6
3	15.2	14.2	14.8	15.5	14.1	14.7	6.0	5.6	5.8	7.9	6.4	7.0
4	15.4	14.5	15.0	15.3	14.0	14.6	6.0	5.7	5.8	9.8	7.9	8.7
5	15.4	14.7	15.1	15.3	14.7	15.0	6.1	6.0	6.0	10.0	9.6	9.9
6	16.0	14.8	15.4	15.2	15.0	15.2	6.1	6.0	6.0	9.7	7.5	9.1
7	16.4	15.3	15.8	15.0	14.4	14.6	6.1	5.7	5.9	7.5	4.7	5.9
8	16.7	15.6	16.2	14.5	13.6	14.2	5.8	5.3	5.6	4.7	3.5	3.9
9	16.9	16.1	16.5	13.6	12.6	12.9	5.8	5.1	5.5	3.5	2.9	3.1
10	17.0	16.8	16.9	12.6	12.0	12.3	6.1	5.6	5.8	2.9	2.3	2.7
11	17.5	16.9	17.1	12.4	12.1	12.3	6.1	5.7	5.9	2.3	1.8	2.1
12	17.9	17.2	17.5	12.7	12.4	12.5	6.2	5.8	5.9	2.6	1.8	2.2
13	18.4	17.5	17.9	12.6	11.0	11.8	5.9	5.1	5.5	2.5	1.9	2.2
14	18.2	17.1	17.9	11.0	10.1	10.4	5.1	4.7	4.9	2.8	2.0	2.3
15	17.4	16.2	16.8	10.1	9.8	10.0	5.0	4.7	4.8	3.2	2.7	2.9
16	16.5	15.5	16.1	10.3	10.0	10.1	5.7	4.8	5.2	3.0	2.5	2.8
17	16.3	15.6	16.0	10.6	10.2	10.4	5.8	5.5	5.7	3.4	2.6	2.9
18	---	---	---	11.6	10.5	11.0	5.6	5.5	5.5	4.3	3.4	3.9
19	---	---	---	13.5	11.6	12.4	5.5	4.7	5.1	4.3	3.8	4.0
20	16.3	15.3	16.0	13.5	12.1	12.9	4.7	3.9	4.3	3.8	3.0	3.4
21	16.3	15.2	15.7	12.1	11.1	11.5	3.9	3.0	3.4	3.0	2.3	2.6
22	16.6	15.4	15.9	11.1	10.6	10.8	3.4	2.9	3.2	2.3	1.8	2.0
23	15.4	14.7	15.0	11.1	10.6	10.8	4.0	3.1	3.5	1.8	1.2	1.5
24	15.3	14.0	14.7	11.0	10.2	10.8	4.9	4.0	4.4	2.1	1.2	1.6
25	15.2	13.9	14.6	10.2	9.3	9.7	5.3	4.9	5.1	2.4	1.8	2.0
26	14.9	14.4	14.7	9.3	8.4	8.8	5.0	4.2	4.6	---	---	---
27	14.6	13.7	14.2	8.4	8.2	8.3	4.2	3.5	3.8	---	---	---
28	14.0	13.1	13.6	8.6	8.1	8.5	3.6	3.3	3.5	---	---	---
29	14.2	13.3	13.7	8.2	7.8	8.0	4.3	3.3	3.8	---	---	---
30	14.1	13.0	13.6	7.8	7.3	7.5	4.8	4.2	4.4	---	---	---
31	14.7	13.5	14.0	---	---	---	5.0	4.3	4.6	---	---	---
MONTH	---	---	---	15.5	7.3	11.7	7.3	2.9	5.0	---	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	7.0	6.3	6.6	12.0	11.2	11.5	16.6	15.9	16.2
2	---	---	---	7.8	7.0	7.3	11.2	10.0	10.4	16.8	15.8	16.4
3	---	---	---	8.1	7.7	7.9	10.8	9.7	10.2	15.8	14.7	15.1
4	---	---	---	9.8	8.1	9.0	10.6	9.8	10.2	14.7	13.4	13.9
5	---	---	---	11.0	9.8	10.5	10.8	9.6	10.2	14.4	13.4	13.8
6	---	---	---	11.6	10.7	11.1	11.3	9.8	10.5	15.7	14.2	14.8
7	---	---	---	11.2	10.2	10.6	12.0	10.8	11.3	17.0	15.3	15.9
8	---	---	---	10.2	9.0	9.6	13.2	11.9	12.5	17.7	16.8	17.1
9	---	---	---	9.0	7.9	8.3	13.7	12.6	13.2	18.8	17.7	18.1
10	---	---	---	7.9	7.3	7.6	13.6	13.0	13.2	19.7	18.8	19.2
11	---	---	---	7.7	6.8	7.1	13.2	13.0	13.1	20.1	19.5	19.7
12	---	---	---	7.0	6.3	6.7	13.1	11.9	12.7	20.9	19.9	20.4
13	---	---	---	7.2	6.3	6.7	11.9	10.0	10.9	20.9	20.4	20.8
14	---	---	---	7.3	7.0	7.1	10.0	9.2	9.6	20.5	19.9	20.2
15	---	---	---	7.7	7.3	7.4	10.4	9.3	9.8	20.8	19.5	20.2
16	---	---	---	8.9	7.7	8.3	11.8	9.9	10.6	20.9	19.2	20.2
17	---	---	---	9.1	8.6	8.8	13.2	11.5	12.1	21.0	20.3	20.6
18	---	---	---	10.1	8.9	9.4	14.6	13.0	13.6	21.2	20.1	20.8
19	5.0	4.5	4.8	10.7	9.8	10.2	15.8	14.5	15.0	20.6	18.3	19.3
20	5.2	4.8	4.9	10.6	10.0	10.4	16.2	15.4	15.7	19.4	18.4	18.9
21	5.3	5.0	5.2	10.5	9.8	10.1	16.4	15.8	16.0	20.7	19.1	19.7
22	5.8	4.9	5.3	9.8	9.0	9.5	17.2	16.4	16.7	22.5	20.1	21.0
23	6.0	5.4	5.7	9.0	7.9	8.3	17.2	17.0	17.1	23.9	19.8	21.5
24	6.7	5.9	6.1	8.6	7.8	8.2	17.7	17.0	17.2	24.1	19.7	21.7
25	6.7	6.1	6.3	9.9	8.4	9.1	18.0	17.7	17.8	25.6	19.6	22.5
26	6.3	5.9	6.1	11.6	9.7	10.6	18.0	17.4	17.7	24.1	19.8	21.6
27	6.3	5.6	6.0	12.7	11.2	11.8	17.4	15.8	16.3	22.6	20.1	22.0
28	6.5	5.6	6.1	13.8	12.4	13.1	15.8	14.9	15.4	22.6	21.8	22.3
29	6.6	5.9	6.3	14.5	13.7	14.1	16.1	14.9	15.4	22.4	21.4	21.8
30	---	---	---	14.3	13.6	13.9	16.1	15.4	15.7	22.4	22.0	22.3
31	---	---	---	13.6	12.0	12.8	---	---	---	22.4	20.5	21.7
MONTH	---	---	---	14.5	6.3	9.4	18.0	9.2	13.4	25.6	13.4	19.3

03410600 SOUTH FORK CUMBERLAND RIVER AT YAMACRAW, 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	9.2	8.8	8.9	10.5	9.4	10.0	14.9	14.0	14.4	11.6	11.3	11.5
2	9.4	8.7	9.1	10.5	9.3	10.0	15.4	14.2	14.6	11.4	8.8	10.3
3	9.7	8.7	9.3	10.5	9.2	9.8	15.1	14.0	14.6	9.0	7.7	8.4
4	9.6	9.0	9.3	10.6	9.1	9.6	14.7	13.8	14.2	7.7	6.0	6.9
5	9.6	8.6	9.2	10.4	8.9	9.9	14.5	13.6	14.0	6.9	5.7	6.1
6	9.7	8.5	9.1	10.4	9.3	9.9	14.9	13.7	14.2	8.8	6.5	7.6
7	9.6	8.3	9.1	10.7	10.1	10.4	14.8	13.7	14.2	6.5	4.9	5.5
8	9.5	8.1	8.9	10.8	10.4	10.6	14.9	13.8	14.3	14.5	5.0	14.2
9	9.3	8.1	8.8	11.3	10.6	10.9	15.0	13.7	14.2	14.6	14.4	14.5
10	8.8	7.8	8.4	11.8	11.1	11.5	14.4	13.1	13.7	14.8	12.3	14.1
11	9.0	7.6	8.3	12.0	11.4	11.7	15.3	13.5	14.3	14.9	12.2	14.1
12	8.9	7.2	8.1	11.9	11.4	11.6	15.0	13.6	14.5	14.8	14.4	14.6
13	8.8	7.2	8.0	12.0	11.1	11.6	14.7	13.6	14.0	14.7	14.4	14.5
14	8.4	7.1	7.7	12.8	11.9	12.4	14.7	13.4	14.0	14.5	14.0	14.3
15	8.8	7.2	8.2	13.0	12.5	12.7	14.8	13.6	14.1	14.0	13.7	13.9
16	9.1	8.1	8.7	12.9	12.6	12.8	14.5	13.4	13.8	13.9	13.6	13.8
17	8.9	8.8	8.8	13.1	12.5	12.8	13.8	12.7	13.2	13.8	13.2	13.5
18	---	---	---	13.0	12.5	12.7	13.5	12.8	13.1	13.4	12.8	13.0
19	---	---	---	12.7	12.2	12.5	13.7	12.7	13.1	13.1	12.8	13.0
20	11.1	9.7	10.5	13.1	12.5	12.9	13.8	12.9	13.2	13.4	13.0	13.2
21	10.6	7.6	8.6	13.4	13.0	13.3	14.2	13.2	13.4	13.6	13.2	13.4
22	8.5	6.8	7.7	13.4	13.0	13.2	13.6	13.1	13.3	13.7	13.4	13.5
23	11.8	7.5	9.3	13.1	10.0	11.9	13.3	12.4	12.9	13.8	13.5	13.7
24	12.9	9.6	11.8	11.9	8.9	11.2	13.7	12.5	13.0	13.6	13.2	13.5
25	13.5	11.4	12.5	13.8	8.6	12.4	13.3	12.4	12.9	13.3	12.8	13.2
26	13.6	11.9	12.8	15.8	12.8	14.0	12.8	12.3	12.5	---	---	---
27	14.1	12.6	13.2	14.9	13.8	14.3	13.0	12.4	12.5	---	---	---
28	14.7	13.1	13.9	14.7	13.0	13.8	12.9	12.4	12.5	---	---	---
29	15.0	11.4	12.9	15.4	13.8	14.8	12.4	11.7	12.2	---	---	---
30	12.7	11.4	11.9	15.1	13.9	14.7	12.0	11.6	11.8	---	---	---
31	14.7	9.4	11.1	---	---	---	12.0	11.5	11.6	---	---	---
MONTH	---	---	---	15.8	8.6	12.0	15.4	11.5	13.5	---	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	8.4	6.9	7.3	11.2	10.1	10.7	8.9	8.6	8.8
2	---	---	---	7.0	6.6	6.8	11.2	10.3	10.7	8.8	8.3	8.6
3	---	---	---	7.2	6.6	6.8	11.8	10.4	11.0	9.2	8.8	9.0
4	---	---	---	6.7	6.0	6.4	11.3	10.1	11.0	9.5	9.2	9.4
5	---	---	---	7.3	5.9	6.4	11.6	10.6	11.1	9.4	9.2	9.4
6	---	---	---	---	---	---	11.5	10.5	11.1	9.3	9.1	9.2
7	---	---	---	---	---	---	11.6	10.3	10.8	9.1	8.8	8.9
8	---	---	---	---	---	---	10.5	9.6	10.1	8.9	8.4	8.6
9	---	---	---	---	---	---	10.8	10.0	10.5	8.6	8.1	8.3
10	---	---	---	---	---	---	11.9	9.5	10.2	8.4	7.9	8.2
11	---	---	---	---	---	---	10.2	9.7	10.0	8.2	7.7	7.9
12	---	---	---	---	---	---	10.6	9.3	10.0	8.1	7.5	7.8
13	---	---	---	---	---	---	---	---	---	8.0	6.7	7.5
14	---	---	---	---	---	---	---	---	---	7.6	6.6	7.3
15	---	---	---	---	---	---	---	---	---	8.6	7.0	7.8
16	---	---	---	11.1	10.9	11.0	---	---	---	8.7	6.7	7.8
17	---	---	---	11.1	10.8	10.9	---	---	---	8.0	7.3	7.8
18	---	---	---	11.1	10.7	10.9	---	---	---	8.2	6.8	7.8
19	9.5	7.5	7.9	11.0	10.6	10.8	---	---	---	8.4	7.7	8.1
20	8.3	7.6	7.9	12.0	10.7	11.0	---	---	---	8.2	8.1	8.2
21	8.8	7.6	8.0	11.5	10.8	11.1	---	---	---	8.2	7.8	8.0
22	8.7	7.6	8.1	12.0	11.2	11.6	---	---	---	8.1	6.3	7.6
23	8.6	7.4	8.0	12.3	11.8	12.0	---	---	---	8.5	6.5	7.6
24	8.0	7.2	7.5	12.5	11.8	12.0	---	---	---	8.5	6.5	7.8
25	7.7	7.0	7.3	12.0	11.3	11.7	---	---	---	8.5	6.5	7.9
26	8.0	7.1	7.4	12.1	10.9	11.3	---	---	---	8.3	7.6	8.0
27	7.9	7.2	7.5	11.4	10.2	10.8	---	---	---	8.3	6.9	7.3
28	7.9	7.1	7.4	10.7	9.9	10.3	9.3	9.1	9.3	7.4	7.0	7.2
29	7.7	7.0	7.2	10.8	9.2	9.8	9.2	9.0	9.1	7.5	7.3	7.4
30	---	---	---	11.0	9.4	10.3	9.1	8.8	9.0	7.5	7.2	7.3
31	---	---	---	11.1	10.4	10.7	---	---	---	7.8	7.2	7.5
MONTH	---	---	---	---	---	---	---	---	---	9.5	6.3	8.1

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