

03306000 GREEN RIVER NEAR CAMPBELLSVILLE, KY

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

DRAINAGE AREA.--682 mi² (1,733 sq km).

WATER-QUALITY RECORDS

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

GAGE.--Water Temperature recorder with telemetry.

REMARKS.--Records good.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 26.6°C, Sept. 1,6, minimum recorded, 4.8°C, Feb. 13-16.

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	19.8	19.4	19.6	16.4	16.2	16.3	13.5	13.2	13.3	7.8	7.6	7.7
2	19.4	19.1	19.2	16.5	16.3	16.4	13.2	13.0	13.1	7.7	7.6	7.6
3	19.1	18.8	18.9	16.4	16.3	16.4	13.0	12.9	12.9	7.7	7.6	7.7
4	18.8	18.6	18.7	16.4	16.3	16.4	12.9	12.7	12.8	7.6	7.5	7.6
5	18.6	18.5	18.5	16.4	16.3	16.3	12.7	12.6	12.6	7.6	7.5	7.5
6	18.5	18.4	18.4	16.4	16.4	16.4	12.6	12.5	12.5	8.0	7.6	7.8
7	18.4	18.1	18.2	16.4	16.4	16.4	12.5	12.3	12.3	8.0	7.9	8.0
8	18.1	17.9	18.0	16.4	16.1	16.2	12.3	12.0	12.2	7.9	7.7	7.8
9	18.0	17.8	17.9	16.1	15.9	15.9	12.0	11.7	11.9	7.7	7.5	7.6
10	18.0	17.8	17.9	15.9	15.8	15.8	11.7	11.4	11.6	7.5	7.0	7.2
11	17.9	17.7	17.8	15.8	15.7	15.8	11.4	11.2	11.3	7.0	6.6	6.8
12	17.9	17.6	17.7	15.8	15.7	15.7	11.2	10.9	11.1	6.6	6.5	6.6
13	17.7	17.4	17.6	15.7	15.4	15.6	10.9	10.6	10.8	6.5	6.5	6.5
14	17.7	17.5	17.6	15.4	15.2	15.3	10.6	10.5	10.6	6.6	6.5	6.6
15	17.8	17.6	17.6	15.2	15.1	15.2	10.5	10.4	10.4	6.6	6.6	6.6
16	17.7	17.6	17.7	15.1	15.0	15.1	10.4	10.3	10.4	6.7	6.5	6.6
17	17.7	17.6	17.6	15.1	15.0	15.0	10.5	10.3	10.4	6.5	6.4	6.4
18	17.6	17.5	17.5	15.0	15.0	15.0	10.5	10.0	10.2	6.5	6.4	6.4
19	17.5	17.4	17.4	15.1	15.0	15.0	10.0	9.6	9.8	6.6	6.6	6.6
20	17.5	17.4	17.4	15.1	14.9	15.0	9.6	9.3	9.4	6.6	6.6	6.6
21	17.5	17.2	17.3	14.9	14.8	14.9	9.3	9.1	9.2	6.6	6.6	6.6
22	17.3	16.9	17.0	14.8	14.7	14.7	9.1	9.1	9.1	6.6	6.4	6.5
23	17.0	16.6	16.8	14.7	14.6	14.6	9.1	9.0	9.0	6.4	6.4	6.4
24	16.9	16.4	16.6	14.6	14.4	14.5	9.0	8.9	9.0	6.4	6.3	6.4
25	16.9	16.5	16.6	14.4	14.3	14.3	8.9	8.7	8.8	6.4	6.3	6.3
26	16.9	16.6	16.8	14.3	14.1	14.2	8.7	8.5	8.6	6.4	6.3	6.4
27	16.6	16.3	16.4	14.1	14.0	14.0	8.5	8.3	8.4	6.4	6.3	6.3
28	16.3	15.9	16.1	14.0	13.9	14.0	8.3	8.2	8.2	6.3	6.1	6.2
29	16.3	16.2	16.2	13.9	13.7	13.8	8.2	8.0	8.1	6.1	5.9	6.0
30	16.4	16.3	16.3	13.7	13.5	13.6	8.0	8.0	8.0	6.0	5.9	5.9
31	16.4	16.3	16.3	---	---	---	8.0	7.8	7.9	6.1	5.9	6.0
MONTH	19.8	15.9	17.5	16.5	13.5	15.3	13.5	7.8	10.4	8.0	5.9	6.8

TEMPERATURE, WATER, 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	6.0	6.0	6.0	6.2	6.1	6.1	10.3	10.1	10.2	13.0	12.6	12.8
2	6.0	5.9	5.9	6.3	6.1	6.2	10.3	10.1	10.2	13.3	13.0	13.2
3	6.0	5.7	6.0	6.4	6.2	6.3	10.3	10.2	10.3	13.5	13.3	13.4
4	5.7	5.4	5.6	6.4	6.3	6.4	10.4	10.2	10.3	13.3	13.2	13.2
5	6.2	5.3	5.5	6.3	6.2	6.2	10.6	10.3	10.4	13.4	13.2	13.3
6	7.0	6.2	6.7	6.6	6.3	6.5	10.7	10.5	10.6	13.3	13.1	13.2
7	6.7	6.2	6.4	6.7	6.6	6.7	10.8	10.5	10.6	14.0	13.3	13.7
8	6.2	5.9	6.0	6.7	6.7	6.7	10.8	10.7	10.7	14.5	14.0	14.3
9	5.9	5.3	5.6	6.8	6.7	6.7	11.1	10.7	10.9	14.8	14.5	14.7
10	5.3	5.1	5.2	6.9	6.8	6.8	11.5	11.1	11.3	15.2	14.8	15.0
11	5.1	5.1	5.1	7.0	6.9	7.0	11.9	11.5	11.6	15.3	14.7	15.1
12	5.1	4.9	5.0	7.2	7.0	7.1	12.0	11.9	12.0	14.7	14.2	14.4
13	4.9	4.8	4.9	7.5	7.2	7.4	12.0	11.3	11.7	14.9	14.2	14.4
14	4.9	4.8	4.8	7.7	7.5	7.6	11.3	11.0	11.1	15.6	14.9	15.3
15	4.8	4.8	4.8	8.1	7.7	7.9	11.2	11.1	11.1	15.8	15.3	15.6
16	4.9	4.8	4.8	8.3	8.1	8.2	11.2	11.1	11.2	15.9	15.2	15.5
17	5.0	4.9	4.9	8.5	8.3	8.4	11.3	11.1	11.2	15.9	15.3	15.7
18	5.2	5.0	5.1	8.7	8.4	8.5	11.3	11.1	11.2	16.4	15.9	16.1
19	5.3	5.2	5.2	9.0	8.6	8.7	11.2	11.1	11.1	16.7	16.4	16.5
20	5.5	5.2	5.4	9.0	8.9	8.9	11.3	11.1	11.2	17.0	16.7	16.9
21	5.6	5.5	5.6	9.0	8.8	8.9	11.3	11.3	11.3	17.2	16.9	17.0
22	6.0	5.6	5.7	8.9	8.7	8.8	11.5	11.3	11.4	17.5	17.2	17.3
23	6.1	6.0	6.1	8.9	8.7	8.8	11.7	11.4	11.5	17.7	17.5	17.6
24	6.2	6.1	6.1	9.1	8.9	8.9	12.0	11.7	11.9	17.8	17.6	17.7
25	6.2	6.1	6.1	9.3	9.0	9.1	12.2	12.0	12.1	17.8	17.8	17.8
26	6.1	6.1	6.1	9.6	9.2	9.3	12.4	12.2	12.3	17.8	17.6	17.7
27	6.2	6.0	6.1	9.8	9.5	9.6	12.6	12.4	12.6	17.6	17.2	17.3
28	6.2	6.1	6.2	10.3	9.8	10	12.7	12.6	12.6	17.5	17.2	17.3
29	6.2	6.2	6.2	10.3	10.2	10.2	12.9	12.7	12.8	17.6	16.5	17.2
30	---	---	---	10.3	10.0	10.3	12.9	12.8	12.8	16.5	15.6	16.0
31	---	---	---	10.1	10.0	10.0	---	---	---	15.6	15.4	15.5
MONTH	7.0	4.8	5.6	10.3	6.1	8.0	12.9	10.1	11.3	17.8	12.6	15.5
	JUNE			JULY			AUGUST			SEPTEMBER		
1	15.4	15.2	15.3	22.0	21.8	21.9	23.8	23.5	23.6	26.6	23.6	24.7
2	15.2	15.1	15.1	22.0	21.9	21.9	23.8	23.6	23.7	24.8	23.9	24.2
3	15.2	15.2	15.2	22.1	21.9	22.0	23.8	23.5	23.6	24.6	23.7	24.1
4	15.2	15.0	15.1	22.2	22.0	22.1	23.8	23.7	23.8	25.3	23.9	24.3
5	15.0	14.8	14.9	22.3	22.1	22.2	24.7	23.6	24.1	26.4	23.7	24.5
6	15.1	14.8	14.9	22.4	22.2	22.3	24.9	23.5	24.0	26.6	23.8	24.7
7	15.5	15.1	15.3	22.4	20.6	21.9	24.5	23.3	23.7	25.2	24.2	24.7
8	16.1	15.5	15.8	20.6	19.1	19.9	24.4	23.3	23.7	24.8	23.7	24.4
9	16.5	16.1	16.4	19.1	18.4	18.7	24.1	23.3	23.5	24.3	23.1	23.5
10	16.9	16.5	16.7	20.2	18.2	18.8	24.1	17.9	21.7	25.7	23.1	23.9
11	17.4	16.9	17.2	21.5	20.2	21.0	18.6	17.5	18.1	25.5	23.2	23.8
12	17.7	17.4	17.5	22.0	11.4	21.8	18.6	16.3	18.0	25.4	23.2	23.8
13	18.1	17.7	17.9	22.2	21.9	22.0	18.9	17.9	18.4	25.4	23.2	23.8
14	18.2	18.0	18.1	22.3	22.2	22.2	19.0	18.3	18.6	25.2	23.1	23.9
15	18.0	17.0	17.7	22.6	22.3	22.4	19.0	18.3	18.5	25.6	23.2	24.0
16	17.0	16.0	16.5	22.8	22.5	22.6	25.2	18.2	21.4	24.1	23.7	23.9
17	17.1	15.7	16.0	23.1	22.8	22.9	25.4	22.7	23.5	24.0	22.7	23.3
18	19.0	17.1	18.2	23.1	23.0	23.1	25.2	22.7	23.6	22.7	17.6	20.2
19	19.6	19.0	19.3	23.1	22.8	22.9	25.7	23.1	24.0	18.9	18.3	18.6
20	19.9	19.6	19.7	23.2	22.8	23.0	23.9	23.0	23.5	22.5	16.9	19.3
21	20.3	19.9	20.1	23.3	23.1	23.2	24.0	22.8	23.4	23.1	22.0	22.4
22	20.5	20.3	20.4	23.3	23.2	23.3	25.3	23.0	23.8	23.1	22.0	22.4
23	20.8	20.5	20.7	23.4	23.1	23.2	25.3	23.1	23.9	23.1	21.9	22.4
24	21.0	20.8	20.9	23.7	23.4	23.5	24.9	23.1	23.8	22.9	22.1	22.3
25	21.2	21.0	21.1	23.7	23.6	23.7	24.0	23.2	23.5	23.1	22.1	22.4
26	21.4	21.2	21.3	23.7	23.5	23.6	24.5	23.4	23.8	23.0	22.1	22.4
27	21.4	21.3	21.4	23.5	23.3	23.4	25.6	23.8	24.4	22.8	22.0	22.3
28	21.6	21.4	21.5	23.4	23.0	23.2	26.4	23.8	24.6	22.1	16.9	19.7
29	21.7	21.6	21.6	23.5	23.2	23.3	25.5	23.8	24.4	20.6	17.9	19.4
30	21.9	21.7	21.8	23.5	23.3	23.4	24.5	24.0	24.3	20.5	20.4	20.4
31	---	---	---	23.5	23.4	23.5	26.5	23.8	24.6	---	---	---
MONTH	21.9	14.8	18.1	23.7	11.4	22.4	26.5	16.3	22.8	26.6	16.9	22.8
YEAR	26.6	4.8	14.7									

03306500 GREEN RIVER AT GREENSBURG, KY

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

DRAINAGE AREA.--736 mi².

WATER-QUALITY RECORDS

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

GAGE.--Water-temperature recorder with telemetry.

REMARKS.--Records good.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--Maximum water-temperature discharge, 31.2°C, July 25, 2001; minimum water-temperature, 5.1°C, many days in winter months.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 27.7°C, Aug. 3, minimum recorded, 2.7°C, Jan. 31-Feb. 1.

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	18.1	17.5	17.9	16.2	15.3	15.8	11.3	10.9	11.0	7.1	6.2	6.6
2	17.7	16.8	17.1	16.5	15.6	16.1	11.7	11.2	11.4	8.5	7.1	7.8
3	16.8	15.7	16.2	16.3	15.5	15.9	11.8	11.6	11.7	8.6	8.3	8.5
4	17.4	16.4	16.8	16.0	15.2	15.7	11.7	11.5	11.6	8.4	8.1	8.2
5	17.6	16.8	17.2	16.3	15.8	16.0	11.5	10.7	11.3	8.3	7.1	7.6
6	17.9	16.9	17.4	16.2	15.0	15.6	10.7	10.2	10.4	7.1	5.4	6.4
7	18.3	17.4	17.9	15.0	13.8	14.3	10.2	9.6	9.8	5.4	4.4	4.7
8	18.7	17.7	18.2	13.8	12.6	13.0	10.2	9.6	9.8	5.3	4.6	4.9
9	18.6	17.8	18.2	12.6	11.7	12.1	10.9	10.2	10.4	5.2	4.9	5.0
10	18.5	17.9	18.3	12.9	11.9	12.3	10.9	10.3	10.7	5.0	4.2	4.5
11	19.2	18.0	18.6	14.1	12.9	13.5	10.3	9.9	10.0	5.6	3.9	4.5
12	19.3	18.4	18.9	15.1	14.1	14.7	9.9	9.7	9.8	6.0	5.4	5.7
13	19.1	17.9	18.6	14.8	12.4	13.6	9.7	9.4	9.6	6.0	5.5	5.7
14	18.6	16.7	17.8	12.4	11.1	11.4	9.4	9.2	9.3	6.1	5.6	5.8
15	16.7	15.5	16.1	11.4	11.0	11.1	9.2	9.0	9.1	6.1	5.8	6.0
16	16.1	15.1	15.6	12.3	11.4	11.8	9.3	8.9	9.0	6.1	5.7	5.9
17	16.0	15.6	15.7	13.7	12.3	12.9	8.9	8.2	8.4	6.3	5.9	6.1
18	15.6	15.0	15.3	14.3	13.7	14.1	8.4	7.9	8.1	6.4	6.1	6.2
19	15.8	14.8	15.3	14.3	13.6	14.1	8.4	8.0	8.2	6.1	5.0	5.6
20	16.3	15.3	15.8	13.6	12.5	12.8	8.0	7.6	7.7	5.0	4.3	4.6
21	16.9	16.2	16.5	12.5	11.8	12.2	7.7	7.2	7.5	5.0	4.4	4.7
22	16.9	15.5	16.4	12.9	11.9	12.3	7.7	7.2	7.4	4.8	4.3	4.6
23	15.6	14.6	15.0	13.6	12.9	13.2	7.7	7.4	7.6	4.7	3.7	4.2
24	14.6	13.4	14.1	13.6	11.7	12.8	7.4	6.8	7.0	5.1	4.4	4.8
25	15.4	13.6	14.3	11.7	11.0	11.2	6.8	6.1	6.6	4.9	4.4	4.6
26	15.1	14.4	14.8	12.0	11.3	11.5	6.5	5.5	6.1	6.0	4.8	5.4
27	14.4	13.4	13.9	12.5	12.0	12.3	6.5	5.7	6.2	6.0	4.4	5.2
28	13.4	12.4	12.7	12.5	11.1	12.0	6.6	6.0	6.3	4.4	3.8	4.1
29	12.8	11.9	12.4	11.1	10.6	10.8	6.9	6.5	6.7	4.8	3.7	4.2
30	14.1	12.3	13.0	11.2	10.6	10.9	6.9	6.2	6.4	4.8	3.7	4.1
31	15.5	14.1	14.7	---	---	---	6.8	5.7	6.1	3.7	2.7	3.1
MONTH	19.3	11.9	16.2	16.5	10.6	13.2	11.8	5.5	8.7	8.6	2.7	5.5

TEMPERATURE, WATER, 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	3.7	2.7	3.2	7.4	6.8	7.0	13.0	11.8	12.2	14.6	13.8	14.2
2	4.8	3.7	4.2	8.1	7.1	7.6	11.8	11.0	11.3	14.7	14.3	14.6
3	5.1	4.6	4.9	7.9	7.3	7.5	12.7	10.9	11.8	14.3	13.4	13.7
4	4.9	4.0	4.2	8.4	6.9	7.6	12.8	11.6	12.2	14.4	12.7	13.5
5	5.3	4.3	4.6	9.2	7.7	8.0	12.3	11.1	11.8	15.3	13.7	14.5
6	7.4	5.3	6.7	9.6	8.8	9.2	12.8	11.1	12.0	15.5	14.1	14.9
7	7.4	4.8	6.0	8.8	7.3	7.6	14.3	12.3	13.2	17.6	15.2	15.9
8	4.8	4.2	4.5	7.5	6.3	6.9	15.7	14.1	14.8	19.7	16.9	18.2
9	4.6	4.1	4.2	7.3	6.8	7.1	15.6	14.2	14.9	20.8	19.0	19.9
10	5.0	4.4	4.6	7.6	6.8	7.2	15.0	13.7	14.1	20.7	19.8	20.2
11	4.8	4.3	4.6	7.6	7.1	7.3	13.9	13.4	10.7	20.9	19.7	20.3
12	4.8	4.6	4.7	7.9	6.9	7.4	13.7	12.0	12.9	20.6	17.9	19.3
13	4.7	4.4	4.5	7.9	6.5	7.3	12.0	10.3	11.0	17.9	16.7	17.3
14	4.8	4.4	4.6	7.9	7.5	7.8	12.2	10.0	10.7	18.2	16.5	17.2
15	4.7	4.5	4.6	8.8	7.5	8.1	12.7	11.4	12.0	18.8	18.2	18.5
16	4.8	4.1	4.3	9.2	8.8	9.0	12.8	11.7	12.2	18.7	17.5	17.9
17	4.6	4.0	4.3	8.9	8.2	8.6	13.1	11.7	12.4	18.4	16.2	17.3
18	4.5	3.5	4.1	10.7	8.7	9.6	13.5	11.7	12.6	21.1	18.1	19.4
19	5.0	3.9	4.4	11.8	9.8	10.8	13.5	12.8	13.0	22.0	20.7	21.3
20	5.2	4.7	4.9	12.4	10.9	11.7	13.0	12.4	12.8	22.7	21.3	21.9
21	5.2	5.0	5.2	12.2	9.7	11.0	13.1	12.7	13.0	23.4	21.9	22.6
22	5.4	4.6	5.0	9.7	8.5	9.2	13.7	12.5	13.0	23.3	22.3	22.8
23	6.0	4.9	5.4	10.1	8.1	9.1	13.6	12.5	13.0	23.7	22.2	22.9
24	6.6	5.8	6.1	12.2	10.0	11.0	14.1	13.1	13.5	23.8	22.9	23.3
25	6.5	5.7	6.0	14.2	11.6	12.9	14.2	13.3	13.8	23.4	22.6	23.0
26	5.9	5.4	5.6	16.3	13.6	14.9	14.3	13.4	13.8	22.8	20.3	21.5
27	6.4	5.2	5.8	17.3	15.8	16.5	14.3	13.4	13.9	20.3	18.8	19.5
28	6.5	5.2	5.9	17.9	16.0	17.0	14.4	13.0	13.8	20.4	19.6	20.0
29	7.1	5.7	6.4	17.5	15.4	16.3	15.3	13.6	14.3	21.1	19.7	20.4
30	---	---	---	15.4	14.5	14.9	14.8	13.7	14.2	21.1	18.0	19.1
31	---	---	---	14.5	13.0	13.8	---	---	---	18.0	17.7	17.8
MONTH	7.4	2.7	4.9	17.9	6.3	10.0	15.7	10.0	12.8	23.8	12.7	18.8
	JUNE			JULY			AUGUST			SEPTEMBER		
1	17.7	16.9	17.3	25.4	24.3	24.9	26.5	24.7	25.7	25.4	23.8	24.4
2	17.4	16.2	16.8	26.0	24.5	25.2	27.4	25.4	26.4	24.8	24.0	23.3
3	17.1	16.3	16.7	26.9	25.1	26.0	27.7	26.1	26.8	24.6	23.5	24.1
4	17.0	16.1	16.4	27.6	25.9	26.7	27.6	26.6	27.1	25.0	23.9	24.4
5	16.5	15.5	16.0	27.3	26.2	26.7	26.8	25.1	25.6	26.0	23.8	24.9
6	16.6	15.7	16.2	26.9	25.2	26.1	25.1	23.7	24.3	26.3	24.3	25.3
7	17.5	16.3	16.8	26.5	25.2	25.9	24.2	22.8	23.5	25.8	24.7	25.3
8	18.1	16.9	17.5	26.1	21.5	23.5	24.4	23.0	23.7	24.7	23.0	23.8
9	18.5	17.6	18.1	21.5	21.0	21.1	24.5	23.5	24.0	23.4	22.4	22.9
10	18.7	17.9	18.3	22.4	20.8	21.5	25.0	23.7	24.3	23.6	21.9	22.7
11	19.6	18.6	19.0	22.7	21.4	22.0	24.8	21.0	23.5	23.9	21.8	22.9
12	19.5	19.1	19.3	25.0	22.7	23.8	21.0	19.5	19.8	24.6	22.6	23.6
13	20.4	19.2	19.7	26.4	24.7	25.4	19.5	18.6	19.0	24.8	23.2	24.0
14	20.7	19.8	20.2	26.5	25.3	25.9	20.0	18.7	19.3	24.9	23.4	24.1
15	20.4	19.0	19.3	26.2	25.2	25.7	20.6	19.6	20.0	24.9	23.1	24.0
16	19.1	18.2	18.6	26.2	24.8	25.5	20.6	19.5	20.0	24.4	23.5	24.0
17	20.6	18.8	19.8	26.5	25.1	25.8	21.6	19.5	20.4	23.5	21.3	22.3
18	21.5	19.7	20.5	26.4	25.3	25.8	23.1	20.9	21.9	21.3	20.4	20.9
19	23.1	21.3	22.0	26.6	24.9	25.7	25.0	22.7	23.8	21.3	19.4	20.0
20	24.8	22.2	23.3	27.1	25.0	26.1	24.7	23.9	24.1	19.4	18.9	19.2
21	25.1	22.9	24.0	27.5	25.5	26.5	23.9	23.1	23.4	19.7	18.9	19.3
22	25.7	24.0	24.9	27.2	26.3	26.7	23.8	22.3	23.0	21.0	18.8	19.7
23	25.4	24.2	24.9	26.6	25.1	26.0	24.6	22.8	23.7	22.1	20.8	21.4
24	25.9	24.0	24.7	27.2	25.6	26.4	25.0	23.7	24.3	22.6	21.6	22.1
25	25.7	24.4	24.8	26.7	25.6	26.3	26.0	24.4	25.1	22.9	22.1	22.5
26	25.1	23.5	24.2	26.3	24.9	25.5	26.1	25.3	25.7	22.7	21.8	22.2
27	24.6	23.1	23.9	25.0	23.9	24.5	26.4	25.2	25.8	22.0	21.2	21.6
28	24.7	22.8	23.7	25.1	23.2	24.1	27.2	25.6	26.3	22.0	21.3	21.7
29	24.9	23.3	24.1	24.5	23.5	24.0	26.9	25.8	26.3	21.9	18.9	20.0
30	25.4	23.9	24.6	---	---	---	26.2	24.5	25.3	20.6	19.1	20.0
31	---	---	---	---	---	---	25.6	23.8	24.6	---	---	---
MONTH	25.9	15.5	20.5	27.6	20.8	25.1	27.7	18.6	23.8	26.3	18.8	22.6
YEAR	27.7	2.7	15.2									

03307000 RUSSELL CREEK NEAR COLUMBIA, KY

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

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

WATER DISCHARGE RECORDS

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

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

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

REMARKS.--Records fair.

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

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 6	0600	*10,700	*18.13	Sep 17	2130	4,790	13.52
Mar 6	0930	5,910	15.07				

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	115	65	435	414	197	108	223	210	615	119	398	34
2	103	60	309	1,820	209	499	187	456	1,220	96	122	36
3	86	56	255	1,300	803	304	165	457	693	69	69	940
4	76	53	275	747	660	227	146	285	768	62	52	258
5	71	53	413	1,150	2,510	532	129	231	611	65	1,760	351
6	65	201	474	857	7,830	3,940	118	194	393	75	698	146
7	59	160	368	562	1,440	1,030	120	162	287	149	311	89
8	55	120	301	438	817	627	117	137	221	98	192	75
9	51	92	258	377	600	466	102	120	192	78	132	244
10	49	77	535	302	484	358	92	106	199	58	101	142
11	50	69	724	252	390	289	89	97	176	55	88	93
12	49	71	442	243	324	253	370	87	155	54	90	75
13	47	118	336	228	276	219	1,640	83	e341	50	82	66
14	46	115	689	208	247	202	1,630	89	e335	48	73	58
15	51	86	668	193	228	197	737	123	e270	43	60	51
16	64	113	590	169	199	219	478	133	232	41	52	47
17	51	148	1,270	156	178	249	345	99	185	39	47	2,700
18	47	627	720	897	164	213	269	78	390	38	44	1,260
19	44	1,660	567	921	154	196	224	71	255	36	42	538
20	43	691	440	517	153	198	194	64	165	35	40	356
21	42	425	345	379	149	478	190	59	127	33	97	253
22	40	304	305	306	133	319	1,680	56	109	37	105	189
23	39	234	326	250	133	250	1,830	53	123	84	67	147
24	38	317	815	227	119	218	1,300	53	161	70	53	104
25	38	364	559	266	112	192	717	47	125	42	52	101
26	47	260	407	609	105	172	725	292	109	36	53	88
27	183	218	324	423	100	160	496	1,730	96	41	43	78
28	198	2,470	278	320	95	152	389	1,070	77	45	37	73
29	114	1,160	255	291	90	146	278	674	68	34	38	68
30	93	637	911	271	---	351	231	369	62	30	36	64
31	73	---	568	218	---	292	---	920	---	293	34	---
TOTAL	2,127	11,024	15,162	15,311	18,899	13,056	15,211	8,605	8,760	2,053	5,068	8,724
MEAN	68.6	367	489	494	652	421	507	278	292	66.2	163	291
MAX	198	2,470	1,270	1,820	7,830	3,940	1,830	1,730	1,220	293	1,760	2,700
MIN	38	53	255	156	90	108	89	47	62	30	34	34
CFSM	0.40	2.12	2.83	2.85	3.77	2.43	2.93	1.60	1.69	0.38	0.94	1.68
IN.	0.46	2.37	3.26	3.29	4.06	2.81	3.27	1.85	1.88	0.44	1.09	1.88

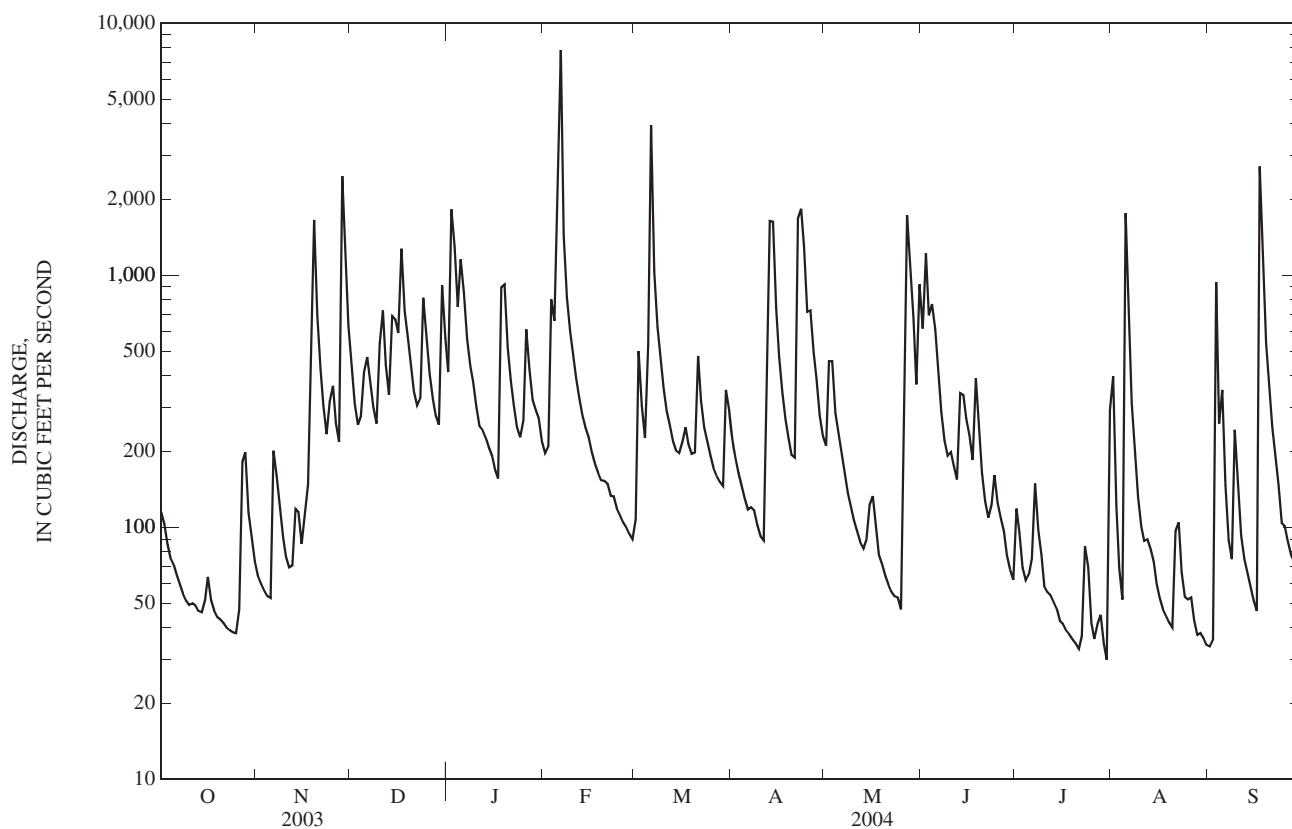
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

	MEAN	73.4	206	402	470	581	573	389	276	205	123	86.8	111
MAX	636	1,047	2,540	1,779	1,588	1,787	856	1,464	800	751	502	1,114	
(WY)	(1976)	(1952)	(1979)	(1950)	(1989)	(1975)	(1972)	(1983)	(1950)	(1967)	(1967)	(1979)	
MIN	1.38	8.92	18.6	26.5	61.1	91.0	70.1	39.8	14.6	10.0	4.25	2.09	
(WY)	(1954)	(1954)	(1954)	(1981)	(1941)	(1941)	(1986)	(1941)	(1988)	(1944)	(1991)	(1953)	

03307000 RUSSELL CREEK NEAR COLUMBIA, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	129,691		124,000		290	
ANNUAL MEAN	355		339		651	
HIGHEST ANNUAL MEAN					118	
LOWEST ANNUAL MEAN					25,000	
HIGHEST DAILY MEAN	9,520	Feb 16	7,830	Feb 6	Dec 9, 1978	
LOWEST DAILY MEAN	23	Aug 29	30	Jul 30	Sep 25, 1952	
ANNUAL SEVEN-DAY MINIMUM	28	Aug 23	37	Aug 27	Oct 19, 1953	
MAXIMUM PEAK FLOW			10,700	Feb 6	Sep 1, 1982	
MAXIMUM PEAK STAGE			18.13	Feb 6	Sep 1, 1982	
INSTANTANEOUS LOW FLOW					5.7	Sep 2, 1993
ANNUAL RUNOFF (CFSM)	2.05		1.96		1.68	
ANNUAL RUNOFF (INCHES)	27.89		26.66		22.77	
10 PERCENT EXCEEDS	719		724		631	
50 PERCENT EXCEEDS	158		184		101	
90 PERCENT EXCEEDS	46		47		15	

e Estimated



03307000 RUSSELL CREEK NEAR COLUMBIA, KY—Continued

WATER-QUALITY RECORDS

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

GAGE.--Water-temperature recorder with telemetry.

REMARKS.--Records good.

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

EXTREMES FOR CURRENT YEAR.--Maximum recorded water-temperature discharge, 27.1°C, July 13, minimum recorded water-temperature, 1.2°C, Feb. 1.

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

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	15.1	14.3	14.7	14.8	13.4	14.0	8.8	8.6	8.7	6.8	5.9	6.3
2	14.4	13.1	13.6	15.4	13.8	14.5	8.6	7.7	8.0	9.0	6.8	7.8
3	13.3	12.0	12.7	15.4	13.6	14.5	7.8	7.4	7.7	11.6	9.0	10.3
4	14.2	13.0	13.5	15.3	13.4	14.4	7.8	7.2	7.4	12.9	11.6	12.4
5	14.2	13.0	13.6	15.9	15.0	15.4	7.8	7.5	7.6	13.0	9.5	11.6
6	15.0	13.3	14.1	15.9	15.1	15.5	7.7	7.3	7.5	9.5	6.5	7.9
7	15.5	13.8	14.6	15.1	13.8	14.5	7.6	7.0	7.2	6.5	4.8	5.4
8	16.0	14.0	15.0	13.8	11.6	12.7	7.1	6.6	6.9	4.9	4.5	4.7
9	16.3	14.5	15.4	11.6	10.6	10.9	8.3	7.1	7.6	5.0	4.6	4.8
10	17.2	16.1	16.5	11.2	10.3	10.7	9.0	8.3	8.6	4.9	4.0	4.5
11	18.0	16.6	17.2	12.2	11.1	11.5	8.8	7.4	8.2	4.0	3.1	3.5
12	18.2	17.2	17.7	13.7	12.2	13.0	7.4	6.4	6.8	4.3	3.1	3.7
13	18.3	16.8	17.6	13.3	10.9	12.0	6.4	5.2	6.0	5.0	4.0	4.5
14	18.1	15.5	16.9	10.9	10.1	10.4	5.5	4.6	4.9	5.3	4.3	4.8
15	15.9	13.9	15.0	10.1	9.4	9.7	6.6	5.5	6.0	5.4	5.0	5.2
16	15.2	13.6	14.4	9.7	9.2	9.4	7.3	6.6	6.9	5.1	4.6	4.8
17	14.4	13.8	14.1	11.1	9.7	10.3	7.4	6.9	7.2	5.3	4.5	4.8
18	14.0	12.6	13.2	13.9	11.1	12.2	6.9	6.4	6.7	6.5	5.3	5.9
19	14.0	11.6	12.8	14.0	13.3	13.8	6.4	5.4	6.0	6.5	5.0	5.8
20	14.4	11.8	13.2	13.3	11.9	12.3	5.4	4.3	4.8	5.0	4.0	4.3
21	15.1	14.0	14.5	11.9	11.2	11.4	4.3	3.7	4.0	4.2	3.8	4.0
22	14.9	12.2	13.8	11.9	11.1	11.5	5.6	4.0	4.7	4.3	3.7	3.9
23	13.9	11.5	12.7	12.3	11.6	11.9	6.9	5.6	6.3	3.7	2.9	3.2
24	13.1	9.6	11.5	12.3	9.9	11.3	---	---	6.4	4.0	2.7	3.3
25	14.2	11.5	12.8	9.9	8.5	9.0	6.0	5.5	5.7	4.1	3.5	3.8
26	14.0	12.8	13.5	8.5	8.1	8.3	5.5	4.8	5.0	7.0	4.1	5.5
27	13.3	12.6	13.0	8.9	8.5	8.7	5.0	4.3	4.7	7.2	5.9	6.8
28	12.6	12.1	12.3	9.8	8.9	9.5	5.5	4.4	4.9	5.9	4.1	4.8
29	12.6	11.8	12.2	9.3	8.2	8.6	---	---	6.0	4.1	3.3	3.8
30	12.9	11.6	12.2	8.6	8.0	8.2	---	---	6.8	4.1	3.4	3.8
31	14.1	12.6	13.3	---	---	---	6.6	5.9	6.2	3.4	2.3	2.6
MONTH	18.3	9.6	14.1	15.9	8.0	11.7	9.0	3.7	6.5	13.0	2.3	5.4

TEMPERATURE, WATER, 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	2.6	1.2	1.9	8.9	8.0	8.3	13.1	12.3	12.6	17.3	16.2	16.6
2	3.9	2.2	2.9	10.8	8.9	10	12.6	11.7	12.0	17.4	16.1	16.9
3	4.9	3.9	4.5	10.6	9.9	10.1	12.7	11.5	12.1	16.1	14.2	14.9
4	5.2	4.6	4.9	11.1	9.9	10.3	12.6	11.9	12.3	14.2	13.3	13.8
5	5.2	3.6	4.4	12.8	11.1	11.8	12.6	11.5	12.1	15.6	14.1	14.5
6	7.3	4.2	6.4	12.8	11.2	12.0	12.9	11.5	12.2	17.2	15.5	16.1
7	7.0	6.0	6.5	11.2	10.1	10.5	---	---	13.0	18.4	17.0	17.5
8	6.0	5.5	5.7	10.1	9.2	9.5	---	---	14.7	19.4	18.0	18.6
9	5.6	5.3	5.4	9.4	8.8	9.1	15.8	14.4	15.1	20.3	18.9	19.4
10	6.8	5.5	6.1	8.8	7.9	8.4	15.5	14.5	14.8	20.3	19.5	19.9
11	6.7	6.1	6.5	8.6	8.1	8.4	14.7	14.2	14.4	20.7	19.7	20.1
12	7.1	6.5	6.8	8.4	7.7	8.1	14.5	11.6	13.4	21.2	19.9	20.5
13	6.9	6.2	6.5	8.5	7.6	8.1	---	---	10.3	21.1	20.7	20.8
14	6.5	6.0	6.2	8.8	8.4	8.6	11.3	8.9	9.8	21.0	20.4	20.7
15	6.4	6.0	6.2	9.6	8.4	8.9	13.1	11.0	11.9	20.9	20.5	20.6
16	6.0	5.3	5.6	9.8	9.6	9.7	14.5	12.6	13.4	20.7	20.0	20.3
17	6.0	5.4	5.6	9.7	9.2	9.5	15.6	14.1	14.7	---	---	20.7
18	6.0	5.5	5.8	10.7	9.4	9.9	16.8	15.0	15.8	---	---	21.5
19	6.3	5.5	5.9	11.4	10.3	10.8	17.0	16.1	16.6	22.8	21.5	22.0
20	7.0	6.3	6.5	12.1	11.0	11.4	17.0	16.6	16.8	23.5	21.9	22.6
21	7.2	7.0	7.1	12.1	9.9	11.0	16.9	16.4	16.6	23.9	22.6	23.2
22	7.4	6.8	7.1	9.9	8.8	9.2	16.6	15.1	15.8	24.1	22.7	23.4
23	---	---	7.1	9.5	8.1	8.8	15.3	14.8	15.1	24.8	23.0	23.7
24	8.1	7.4	7.7	10.9	9.5	10	---	---	15.1	24.6	23.3	23.9
25	8.0	7.5	7.7	12.5	10.8	11.4	---	---	15.7	24.5	23.1	23.7
26	---	---	7.5	14.1	12.5	13.1	16.3	16.1	16.2	23.5	21.8	23.0
27	7.8	7.1	7.4	15.2	14.1	14.6	16.1	15.1	15.4	21.8	19.4	19.9
28	7.7	6.8	7.3	16.1	14.8	15.4	---	---	14.5	20.3	19.6	20.0
29	8.2	7.2	7.6	16.0	15.0	15.5	---	---	15.1	20.3	19.5	19.8
30	---	---	---	15.0	14.3	14.7	16.4	15.5	15.8	21.0	20.1	20.4
31	---	---	---	14.3	13.1	13.5	---	---	---	21.1	20.5	20.9
MONTH	8.2	1.2	6.1	16.1	7.6	10.7	17.0	8.9	14.1	24.8	13.3	20.0
	JUNE			JULY			AUGUST			SEPTEMBER		
1	20.5	19.5	19.9	23.3	22.4	22.9	24.2	23.1	23.7	23.0	19.1	21.1
2	20.1	19.1	19.4	23.6	22.4	22.9	24.9	23.4	24.1	22.5	21.1	21.8
3	19.7	19.1	19.4	24.6	22.8	23.6	25.7	24.0	24.7	22.6	21.2	21.5
4	19.7	18.8	19.3	25.7	23.9	24.7	25.7	24.3	25.0	21.9	21.2	21.5
5	19.0	18.2	18.6	25.7	24.5	25.1	25.5	21.8	23.3	22.5	21.6	22.0
6	19.3	18.4	18.8	25.4	23.8	24.5	21.8	20.9	21.3	23.3	21.9	22.5
7	20.4	19.1	19.6	25.2	24.4	24.8	21.4	20.1	20.8	23.1	22.7	22.9
8	21.5	20.0	20.6	25.6	23.8	24.6	21.6	20.1	20.9	22.8	21.8	22.2
9	22.6	21.2	21.7	26.0	24.2	25.0	22.0	20.9	21.4	21.8	21.3	21.5
10	22.5	21.7	22.1	26.4	24.5	25.5	22.8	21.2	21.9	21.6	20.7	21.1
11	23.4	22.2	22.7	26.7	25.1	25.9	22.7	21.8	22.2	21.8	20.6	21.2
12	---	---	---	26.2	25.4	25.7	22.2	20.8	21.5	22.3	21.0	21.6
13	---	---	---	27.1	24.8	25.7	20.8	19.3	20.1	22.5	20.9	21.7
14	---	---	---	26.2	24.7	25.4	20.5	18.6	19.6	22.5	20.4	21.5
15	---	---	---	25.6	23.2	24.4	20.8	18.2	19.5	22.5	19.5	21.2
16	---	---	22.0	25.3	23.1	24.2	21.2	18.1	19.6	22.0	21.5	21.7
17	23.5	22.4	22.8	25.2	23.5	24.2	21.6	18.1	19.9	21.6	19.7	20.6
18	24.1	22.9	23.5	24.2	22.5	23.4	22.6	19.2	20.8	19.7	18.7	19.0
19	23.9	22.9	23.3	24.5	21.4	22.9	23.8	21.0	22.3	18.7	17.9	18.3
20	23.4	22.1	22.8	24.8	21.1	23.0	23.0	21.7	22.4	18.4	17.5	18.0
21	23.2	21.8	22.6	25.2	21.9	23.6	22.7	22.0	22.4	18.5	17.3	17.9
22	23.5	22.5	23.1	---	---	23.5	22.5	21.2	21.8	18.9	17.7	18.3
23	23.2	22.5	22.9	---	---	25.3	22.9	21.3	22.0	19.6	18.2	18.9
24	23.3	22.2	22.8	25.6	24.6	25.1	23.4	22.0	22.6	---	---	19.4
25	---	---	22.6	25.0	23.5	24.2	24.3	22.7	23.4	20.8	19.6	20.1
26	22.9	21.7	22.3	24.4	23.2	23.7	24.8	23.5	24.1	20.5	19.4	19.9
27	22.5	21.3	21.8	24.0	22.7	23.3	25.3	23.3	24.3	20.3	18.7	19.6
28	22.5	20.9	21.6	---	---	22.4	25.4	23.1	24.2	20.4	19.6	19.9
29	22.8	21.4	22.0	23.8	20.6	22.2	24.7	23.5	24.1	19.6	17.3	18.8
30	23.4	22.0	22.6	24.4	21.6	23.1	23.5	22.2	22.8	18.3	16.2	17.2
31	---	---	---	24.4	23.5	24.0	22.7	20.6	22.0	---	---	---
MONTH	24.1	18.2	21.6	27.1	20.6	24.2	25.7	18.1	22.2	23.3	16.2	20.4
YEAR	27.1	1.2	14.7									

03308500 GREEN RIVER AT MUNFORDVILLE, KY

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

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

WATER DISCHARGE RECORDS

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

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

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

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

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

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

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

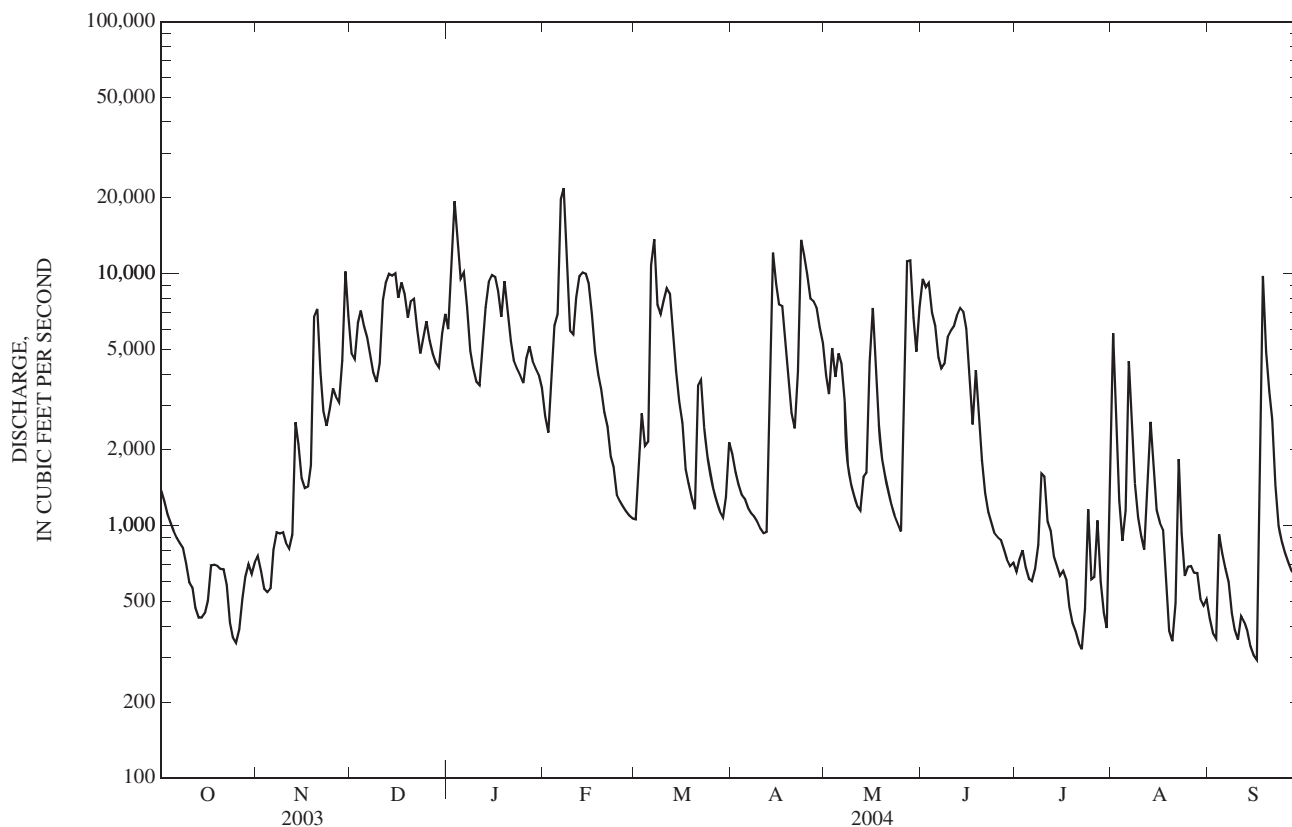
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,380	757	4,840	6,020	2,730	1,060	1,920	3,950	9,520	656	5,800	428
2	1,250	663	4,590	10,400	2,340	1,590	1,630	3,330	8,820	735	2,560	375
3	1,110	562	6,380	19,400	3,500	2,790	1,460	5,060	9,180	799	1,260	357
4	1,030	545	7,140	13,800	6,210	2,070	1,330	3,900	6,980	682	872	925
5	954	565	6,190	9,520	6,900	2,150	1,280	4,820	6,200	616	1,150	776
6	895	803	5,560	10,100	19,700	10,800	1,180	4,390	4,660	603	4,490	674
7	852	940	4,730	7,370	21,800	13,700	1,120	3,130	4,200	674	2,800	597
8	817	929	4,050	4,950	12,200	7,510	1,090	1,740	4,390	839	1,470	449
9	709	941	3,720	4,230	5,930	6,910	1,040	1,460	5,600	1,610	1,080	386
10	596	856	4,420	3,730	5,740	7,780	974	1,320	5,940	1,570	906	353
11	567	812	7,860	3,610	8,050	8,760	933	1,200	6,160	1,040	804	439
12	472	922	9,210	5,100	9,780	8,330	945	1,150	6,830	952	1,580	415
13	433	2,570	9,990	7,360	10,100	5,970	4,960	1,560	7,310	754	2,580	384
14	433	2,110	9,820	9,290	9,990	4,130	12,100	1,620	7,050	694	1,630	332
15	451	1,540	10,000	9,870	9,140	3,110	9,080	4,440	6,050	633	1,150	306
16	504	1,410	8,020	9,700	6,930	2,560	7,540	7,300	3,970	660	1,030	294
17	697	1,430	9,230	8,520	4,880	1,680	7,420	3,970	2,520	609	962	2,130
18	701	1,740	8,280	6,750	3,980	1,470	5,280	2,510	4,140	478	613	9,770
19	692	6,730	6,690	9,340	3,490	1,290	3,790	1,840	2,800	411	383	4,910
20	674	7,230	7,760	6,970	2,820	1,160	2,800	1,560	1,820	380	348	3,410
21	672	4,050	7,950	5,380	2,470	3,600	2,430	1,370	1,350	342	493	2,650
22	582	2,850	6,030	4,530	1,880	3,780	4,090	1,210	1,130	324	1,840	1,450
23	413	2,490	4,820	4,210	1,710	2,450	13,600	1,100	1,020	470	936	1,000
24	361	2,910	5,580	3,960	1,330	1,890	11,900	1,020	934	1,160	632	868
25	343	3,510	6,480	3,690	1,250	1,610	9,920	948	901	612	688	787
26	387	3,260	5,420	4,600	1,190	1,390	7,970	2,520	881	625	692	723
27	516	3,090	4,800	5,140	1,140	1,250	7,790	11,200	804	1,050	651	668
28	627	4,540	4,440	4,510	1,100	1,140	7,370	11,300	737	601	650	642
29	702	10,200	4,250	4,200	1,070	1,080	6,130	6,700	692	450	512	690
30	643	6,820	5,780	3,980	---	1,300	5,310	4,900	712	393	482	2,960
31	717	---	6,920	3,520	---	2,140	---	7,360	---	1,720	511	---
TOTAL	21,180	77,775	200,950	213,750	169,350	116,450	144,382	109,878	123,301	23,142	41,555	40,148
MEAN	683	2,592	6,482	6,895	5,840	3,756	4,813	3,544	4,110	747	1,340	1,338
MAX	1,380	10,200	10,000	19,400	21,800	13,700	13,600	11,300	9,520	1,720	5,800	9,770
MIN	343	545	3,720	3,520	1,070	1,060	933	948	692	324	348	294

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

	MEAN	2,430	4,084	4,569	5,466	4,950	3,697	3,278	2,449	1,045	858	1,224
MAX	5,337	5,414	12,800	12,130	13,610	12,040	8,632	13,250	7,209	3,132	3,642	6,104
(WY)	(1976)	(2003)	(1979)	(1974)	(1989)	(1975)	(1994)	(1983)	(1997)	(1973)	(1977)	(1979)
MIN	193	210	545	255	1,952	1,066	552	487	214	280	202	152
(WY)	(2001)	(1972)	(1981)	(1981)	(1992)	(1983)	(1986)	(1988)	(1988)	(1993)	(1993)	(1999)

03308500 GREEN RIVER AT MUNFORDVILLE, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1970 - 2004	
ANNUAL TOTAL	1,355,204		1,281,861		2,929	
ANNUAL MEAN	3,713		3,502		1,233	
HIGHEST ANNUAL MEAN					5,285	
LOWEST ANNUAL MEAN					1,233	
HIGHEST DAILY MEAN	27,000	Feb 17	21,800	Feb 7	62,800	May 8, 1984
LOWEST DAILY MEAN	343	Oct 25	294	Sep 16	136	Oct 4, 2001
ANNUAL SEVEN-DAY MINIMUM	396	Aug 17	360	Sep 10	142	Sep 9, 1999
MAXIMUM PEAK FLOW			22,600	Feb 7	76,800	Mar 1, 1962
MAXIMUM PEAK STAGE			28.66	Feb 7	57.72	Mar 1, 1962
INSTANTANEOUS LOW FLOW					157	Jul 8, 1988
10 PERCENT EXCEEDS	8,750		8,590		7,080	
50 PERCENT EXCEEDS	2,290		1,860		1,440	
90 PERCENT EXCEEDS	584		536		285	



03308500 GREEN RIVER AT MUNFORDVILLE, KY—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--WATER-TEMPERATURE; Water years 1950-77, 1980, 1983-90, August 1992 to September 1994, December 22, 1999 to September 30, 2000.

GAGE.--Water-temperature recorder with telemetry.

REMARKS.--Records fair.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum recorded water temperature 25.3C, July 9 and Aug. 28, minimum recorded, 5.4C, Jan. 31.

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	18.6	18.0	18.2	13.7	13.4	13.5	9.5	9.4	9.4	7.5	7.3	7.4
2	18.0	17.2	17.5	13.9	13.7	13.8	9.5	9.3	9.3	8.6	7.4	7.8
3	17.2	16.5	16.7	14.2	13.9	14.0	10.1	9.3	9.6	9.5	8.6	9.1
4	16.6	16.5	16.6	14.4	14.2	14.3	10.6	10.1	10.4	10.5	9.5	10.1
5	16.7	16.5	16.6	14.5	14.4	14.5	10.6	10.4	10.5	10.7	10.5	10.6
6	16.5	16.4	16.5	14.7	14.5	14.6	10.4	9.8	10.1	10.6	9.3	10.0
7	16.5	16.4	16.5	14.8	14.2	14.5	9.8	9.2	9.4	9.3	7.9	8.5
8	16.7	16.5	16.6	14.2	13.3	13.7	9.2	8.7	8.9	7.9	7.1	7.4
9	16.8	16.6	16.7	13.3	12.6	12.8	9.2	8.7	8.9	7.1	6.9	6.9
10	16.8	16.7	16.8	12.6	12.4	12.5	10.1	9.2	9.7	6.9	6.7	6.8
11	16.9	16.8	16.9	12.8	12.5	12.6	10.1	9.6	10.0	6.7	6.1	6.4
12	17.0	16.9	16.9	13.1	12.8	12.9	9.6	9.0	9.2	6.2	6.0	6.1
13	17.1	16.9	17.0	13.3	13.1	13.2	9.0	8.8	8.9	6.6	6.2	6.4
14	17.1	17.0	17.0	13.2	12.2	12.7	8.8	8.5	8.6	6.6	6.4	6.5
15	17.0	16.4	16.7	12.2	11.3	11.7	8.5	8.1	8.3	6.6	6.4	6.5
16	16.4	15.9	16.1	11.3	11.2	11.3	8.4	8.1	8.2	6.6	6.3	6.4
17	16.0	15.8	15.9	11.6	11.3	11.4	8.7	8.4	8.6	6.5	6.3	6.3
18	15.8	15.3	15.5	12.4	11.6	12.0	8.7	8.3	8.5	6.8	6.5	6.6
19	15.3	15.0	15.1	15.0	12.4	13.6	8.3	8.0	8.1	6.9	6.8	6.9
20	15.1	15.0	15.0	14.4	9.9	12.3	8.0	7.5	7.7	6.9	6.3	6.6
21	15.2	15.0	15.1	13.3	9.0	12.0	7.5	7.1	7.3	6.3	6.0	6.1
22	15.2	15.1	15.2	12.8	12.5	12.6	7.3	7.1	7.2	6.0	5.9	5.9
23	15.1	14.8	14.9	12.7	12.6	12.6	7.8	7.3	7.6	6.0	5.7	5.9
24	14.8	14.3	14.4	12.8	12.5	12.7	8.0	7.8	8.0	5.7	5.5	5.6
25	14.3	14.1	14.2	12.5	10.8	11.6	7.9	7.4	7.6	5.9	5.6	5.8
26	14.4	14.2	14.3	10.8	10.0	10.2	7.4	7.0	7.2	6.4	5.9	6.1
27	14.3	13.6	13.8	10.3	10.0	10.1	7.0	6.7	6.8	7.0	6.4	6.7
28	13.6	13.1	13.2	11.0	10.3	10.7	6.8	6.7	6.7	7.1	6.7	6.9
29	13.1	13.0	13.0	10.8	9.8	10.3	7.4	6.8	7.0	6.7	6.0	6.3
30	13.1	12.9	13.0	9.8	9.4	9.5	7.9	7.4	7.7	6.0	5.8	5.9
31	13.4	13.1	13.2	---	---	---	7.9	7.5	7.7	5.8	5.4	5.6
MONTH	18.6	12.9	15.6	15.0	9.0	12.5	10.6	6.7	8.5	10.7	5.4	7.0

TEMPERATURE, WATER, 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	5.9	5.6	5.8	9.8	9.3	9.5	14.8	14.4	14.6	16.4	16.0	16.2
2	6.1	5.9	6.0	10.4	9.8	10.1	14.4	14.0	14.2	16.6	16.4	16.5
3	6.5	6.1	6.3	10.8	10.4	10.6	14.1	13.8	13.9	16.6	16.5	16.6
4	6.6	6.5	6.6	10.9	10.8	10.8	13.8	13.8	13.8	16.5	16.0	16.2
5	6.6	6.4	6.5	11.4	10.9	11.2	13.8	13.6	13.7	16.2	16.1	16.1
6	6.5	6.4	6.4	12.0	11.4	11.8	13.7	13.6	13.7	16.2	16.1	16.2
7	7.1	6.5	6.8	12.0	11.8	11.9	13.8	13.6	13.7	16.6	16.2	16.4
8	7.2	7.1	7.2	11.8	11.2	11.5	14.1	13.8	14.0	17.0	16.6	16.9
9	7.2	7.1	7.1	11.2	10.3	10.7	14.6	14.1	14.4	17.3	17.0	17.2
10	7.1	7.1	7.1	10.3	9.7	9.9	14.9	14.6	14.8	17.7	17.3	17.5
11	7.1	6.7	6.9	9.7	9.5	9.6	15.0	14.9	15.0	18.1	17.7	17.9
12	6.7	6.4	6.5	9.5	9.3	9.4	15.1	15.0	15.0	18.4	18.1	18.3
13	6.4	6.1	6.2	9.4	9.2	9.3	15.0	14.1	14.6	18.7	18.4	18.6
14	6.1	5.8	5.9	9.8	9.3	9.5	14.1	12.9	13.4	19.1	18.7	18.9
15	5.9	5.8	5.8	10.1	9.8	9.9	13.0	12.8	12.9	19.3	19.1	19.2
16	5.9	5.8	5.9	---	---	---	13.6	13.0	13.4	19.1	18.7	18.9
17	6.1	5.9	5.9	---	---	---	14.0	13.6	13.9	18.8	18.7	18.7
18	6.5	6.1	6.3	11.2	10.8	11.0	14.6	14.0	14.3	18.8	18.7	18.8
19	6.6	6.4	6.5	11.7	11.2	11.5	15.2	14.6	14.8	18.8	18.8	18.8
20	7.2	6.6	6.9	12.1	11.7	11.9	15.5	15.2	15.3	19.0	18.8	18.9
21	7.8	7.2	7.6	12.6	12.1	12.4	15.7	15.5	15.6	19.2	19.0	19.1
22	8.1	7.8	7.9	12.6	12.1	12.4	16.1	15.7	16.0	19.4	19.2	19.3
23	8.3	8.1	8.2	12.1	11.7	11.9	16.1	15.9	16.0	19.6	19.4	19.5
24	8.8	8.3	8.6	11.8	11.7	11.8	15.9	15.9	15.9	19.8	19.6	19.7
25	9.0	8.8	9.0	12.2	11.8	12.0	16.1	15.9	16.0	20.0	19.8	19.9
26	9.0	9.0	9.0	12.8	12.2	12.5	16.2	16.1	16.1	20.1	20.0	20.0
27	9.1	8.9	9.0	13.4	12.8	13.1	16.2	16.1	16.2	20.4	20.1	20.3
28	9.2	9.0	9.1	14.0	13.4	13.8	16.1	15.9	16.0	20.2	20.1	20.1
29	9.3	9.1	9.2	14.6	14.0	14.3	15.9	15.8	15.9	20.2	20.1	20.2
30	---	---	---	15.0	14.6	14.8	16.0	15.8	15.9	20.3	20.1	20.2
31	---	---	---	15.0	14.8	14.9	---	---	---	20.3	20.2	20.2
MONTH	9.3	5.6	7.1	15.0	9.2	11.5	16.2	12.8	14.8	20.4	16.0	18.4
	JUNE			JULY			AUGUST			SEPTEMBER		
1	20.2	20.1	20.2	22.0	21.0	21.5	22.3	21.4	22.0	23.4	21.6	22.6
2	20.1	20.0	20.1	23.2	21.4	22.2	23.4	22.1	22.7	22.7	21.9	22.2
3	20.0	19.8	19.9	23.9	22.3	23.1	24.3	22.6	23.4	22.4	21.7	22.1
4	19.8	19.7	19.8	24.4	22.7	23.6	24.5	22.9	23.7	23.6	21.8	22.7
5	19.7	19.6	19.7	24.2	23.1	23.6	24.0	23.5	23.7	24.0	22.6	23.3
6	19.7	19.6	19.6	24.3	22.2	23.3	23.6	21.5	22.4	24.2	22.3	23.3
7	19.7	19.6	19.7	24.1	22.9	23.5	21.6	20.6	21.1	23.8	22.9	23.2
8	19.8	19.7	19.8	24.6	22.7	23.6	21.7	20.4	21.1	23.1	21.9	22.4
9	20.1	19.8	20.0	25.3	23.9	24.6	21.9	20.8	21.3	21.9	21.0	21.5
10	20.3	20.1	20.2	25.0	23.3	23.9	22.4	20.8	21.6	22.1	20.5	21.4
11	20.4	20.2	20.3	24.0	22.8	23.4	22.3	21.4	21.9	22.3	20.5	21.5
12	20.7	20.4	20.6	23.9	23.0	23.4	22.1	21.3	21.8	22.7	21.3	22.0
13	20.9	20.7	20.8	25.1	23.1	24.0	22.0	18.4	19.6	22.7	21.6	22.3
14	21.0	20.8	20.9	24.9	23.3	24.1	19.1	18.0	18.5	22.9	21.5	22.2
15	21.4	21.0	21.2	24.6	23.2	24.0	19.7	18.1	18.9	23.2	21.3	22.4
16	21.5	21.4	21.4	24.9	23.3	24.1	20.4	18.6	19.5	22.5	21.6	22.1
17	21.4	21.4	21.4	24.7	23.4	24.1	21.2	19.2	20.2	21.9	19.8	21.1
18	21.7	21.4	21.5	24.2	23.1	23.7	21.8	19.7	20.8	19.9	19.4	19.7
19	21.9	21.7	21.8	24.1	22.4	23.3	22.8	20.7	21.8	19.4	18.8	19.1
20	21.8	21.7	21.8	24.0	22.3	23.3	22.3	21.5	21.7	19.2	18.5	18.9
21	21.8	21.7	21.7	24.1	22.6	23.5	21.8	21.1	21.4	19.0	18.0	18.5
22	21.8	21.8	21.8	24.1	23.0	23.5	21.8	21.1	21.5	19.4	18.2	18.8
23	22.2	21.8	21.9	24.8	22.7	23.5	22.1	20.7	21.4	20.1	18.5	19.3
24	22.6	21.0	21.8	24.8	23.5	24.0	23.0	21.3	22.1	20.4	19.1	19.8
25	22.2	21.6	21.8	23.6	22.7	23.2	23.7	21.7	22.8	21.2	19.8	20.5
26	22.3	21.0	21.6	23.3	21.7	22.3	23.7	22.2	23.2	21.3	20.0	20.7
27	21.9	20.5	21.3	22.9	22.0	22.4	23.9	21.9	22.8	20.9	19.8	20.4
28	21.9	20.2	21.1	22.7	21.0	21.9	25.3	23.3	24.3	21.3	19.9	20.5
29	22.0	20.4	21.3	22.8	20.9	21.9	24.9	23.9	24.4	20.6	19.7	20.0
30	21.9	20.9	21.3	22.8	21.6	22.3	24.4	22.9	23.6	20.0	18.2	19.2
31	---	---	---	22.5	19.8	21.1	23.7	22.2	23.0	---	---	---
MONTH	22.6	19.6	20.9	25.3	19.8	23.2	25.3	18.0	21.9	24.2	18.0	21.1
YEAR	25.3	5.4	15.3									

03309000 GREEN RIVER AT MAMMOTH CAVE, KY

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

DRAINAGE AREA.--2,020 mi².

WATER DISCHARGE RECORDS

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

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

REMARKS.--Records fair.

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,720	e898	5,730	6,670	3,300	1,400	2,300	4,760	10,800	878	4,190	410
2	1,430	893	4,660	10,300	2,860	1,560	1,990	4,230	10,400	784	3,910	319
3	1,230	788	5,580	19,000	4,180	2,580	1,790	4,930	10,700	928	2,300	262
4	1,050	728	7,110	19,400	e6,090	2,570	1,660	4,880	8,410	974	1,530	209
5	945	743	6,670	12,800	7,730	2,370	1,530	4,940	7,700	1,060	1,230	755
6	849	862	5,930	11,200	16,200	e8,930	1,440	5,160	6,330	1,220	2,650	558
7	802	1,160	5,230	9,280	22,500	15,700	1,360	4,060	5,410	1,170	3,680	541
8	779	1,100	4,440	6,150	19,000	10,500	1,300	2,530	5,350	1,100	2,130	424
9	729	1,130	3,980	4,860	e8,350	7,200	1,240	1,880	6,000	1,280	1,700	327
10	605	1,070	4,100	4,240	6,150	7,950	1,180	1,770	6,650	1,600	1,460	277
11	517	998	6,650	3,930	7,990	8,640	1,110	1,700	6,560	1,320	1,100	267
12	484	1,020	8,940	4,600	10,100	8,960	1,140	1,570	7,280	1,100	955	328
13	441	1,900	9,920	6,770	10,500	6,940	3,260	1,610	7,890	788	2,040	308
14	407	2,870	10,100	9,000	10,400	4,940	11,500	1,800	7,700	680	1,850	253
15	446	2,110	10,400	10,200	9,780	3,690	10,900	4,420	6,900	615	1,280	135
16	713	1,850	9,380	10,200	7,990	2,920	7,950	9,120	5,250	526	1,050	119
17	819	1,590	9,290	9,590	5,690	2,280	7,800	5,840	3,660	653	964	199
18	918	2,180	9,830	7,640	4,240	1,940	6,070	3,930	3,450	1,040	827	7,090
19	912	5,490	7,450	9,050	3,910	1,740	4,290	2,770	3,840	422	417	6,570
20	893	8,720	7,490	8,290	3,180	1,700	3,200	2,210	2,590	255	325	3,600
21	876	5,680	8,380	6,140	2,880	3,050	2,790	1,980	2,210	195	810	2,890
22	868	3,880	6,840	4,960	2,290	4,680	e3,760	1,660	1,860	204	1,110	1,930
23	821	3,180	5,390	4,460	2,060	e3,200	12,700	1,480	1,500	576	1,470	1,210
24	649	3,380	5,290	4,170	1,790	2,500	14,100	1,330	1,340	925	827	940
25	607	3,650	6,660	4,030	1,610	2,130	11,700	1,240	1,330	1,160	604	804
26	644	3,670	5,980	4,380	e1,540	1,900	9,130	1,840	1,290	873	793	699
27	695	3,410	5,200	5,580	1,490	1,730	8,020	8,360	1,100	1,000	997	709
28	772	4,460	4,730	4,950	1,450	1,610	8,050	13,500	889	863	676	788
29	857	8,810	4,470	4,600	1,400	1,520	6,690	8,510	838	448	561	771
30	872	9,090	5,730	4,290	---	1,650	5,910	6,310	834	331	525	1,240
31	827	---	7,460	3,990	---	2,110	---	7,600	---	755	504	---
TOTAL	25,177	87,310	209,010	234,720	186,650	130,590	155,860	127,920	146,061	25,723	44,465	34,932
MEAN	812	2,910	6,742	7,572	6,436	4,213	5,195	4,126	4,869	830	1,434	1,164
MAX	1,720	9,090	10,400	19,400	22,500	15,700	14,100	13,500	10,800	1,600	4,190	7,090
MIN	407	728	3,980	3,930	1,400	1,400	1,110	1,240	834	195	325	119

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2004, BY WATER YEAR (WY)

MEAN	320	1,019	2,745	5,992	7,060	6,181	4,847	2,425	2,182	1,320	1,048	747
MAX	910	2,910	7,683	19,220	16,080	12,010	9,467	5,354	7,008	3,276	3,103	3,758
(WY)	(1945)	(2004)	(1950)	(1950)	(1939)	(1943)	(1948)	(1947)	(1950)	(1947)	(1938)	(1950)
MIN	124	181	271	390	870	851	1,547	547	496	202	225	170
(WY)	(1941)	(1940)	(1940)	(1940)	(1941)	(1941)	(1946)	(1941)	(1944)	(1944)	(1945)	(1945)

03309000 GREEN RIVER AT MAMMOTH CAVE, KY—Continued

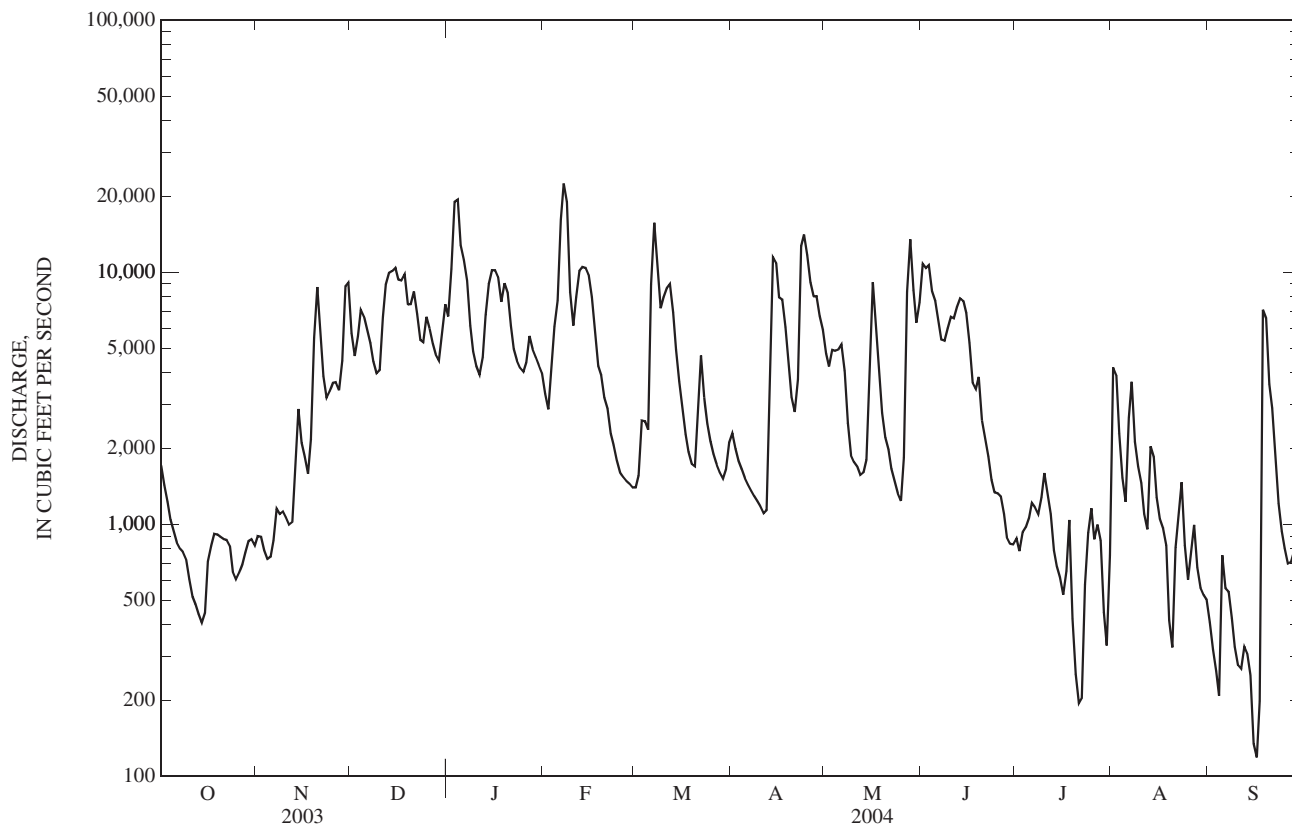
SUMMARY STATISTICS

FOR 2004 WATER YEAR

WATER YEARS 1938 - 2004

ANNUAL TOTAL	1,408,418			
ANNUAL MEAN	3,848			2,956
HIGHEST ANNUAL MEAN				5,680
LOWEST ANNUAL MEAN				1,170
HIGHEST DAILY MEAN	22,500	Feb 7	50,300	Feb 18, 1949
LOWEST DAILY MEAN	119	Sep 16	92	Nov 2, 1945
ANNUAL SEVEN-DAY MINIMUM	230	Sep 11	104	Oct 21, 1940
MAXIMUM PEAK FLOW	23,300	Feb 7	51,400	Feb 18, 1949
MAXIMUM PEAK STAGE	30.03	Feb 7	43.00	Feb 18, 1949
10 PERCENT EXCEEDS	9,060		7,520	
50 PERCENT EXCEEDS	2,210		1,100	
90 PERCENT EXCEEDS	606		202	

e Estimated



03309000 GREEN RIVER AT MAMMOTH CAVE, KY—Continued

WATER-QUALITY RECORDS

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

COOPERATION.--National Park Service.

INSTRUMENTATION.--Five parameter water-quality monitor with telemetry since Aug. 2003.

REMARKS.--

SPECIFIC CONDUCTANCE: Records rated good

pH: Records rated good.

WATER TEMPERATURE: Records rated good.

DISSOLVED OXYGEN: Records rated poor.

TURBIDITY: Records rated poor.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 411 microsiemens, Aug. 10; minimum recorded, 167 microsiemens, Jun. 12.

pH: Maximum recorded, 8.3 units, Apr. 9-11; minimum recorded, 7.1 units, Jan. 2, 3, Feb. 25.

WATER TEMPERATURES: Maximum recorded, 25.9°C, Jul. 10; minimum recorded, 3.8°C, Feb. 1.

DISSOLVED OXYGEN: Maximum recorded, 15.1 mg/L, Feb. 1; minimum recorded, 5.9 mg/L, Jul. 29, 30.

TURBIDITY: Maximum recorded, 480 FNU, May 27; minimum recorded, 2.1 FNU, Apr. 12.

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	320	315	317	384	368	375	---	---	---	267	260	263
2	323	319	322	369	363	368	---	---	---	260	233	249
3	323	320	322	363	328	344	---	---	---	---	---	---
4	320	319	320	328	314	318	---	---	---	---	---	---
5	322	320	321	315	312	314	---	---	---	---	---	---
6	322	321	322	321	314	316	---	---	---	---	---	---
7	322	320	321	334	321	330	---	---	---	---	---	---
8	320	319	319	328	316	321	---	---	---	---	---	---
9	319	316	318	338	324	332	---	---	---	---	---	---
10	317	315	316	337	321	327	---	---	---	---	---	---
11	324	317	321	326	317	322	---	---	---	---	---	---
12	333	324	329	318	302	311	---	---	---	---	---	---
13	340	333	336	302	278	289	---	---	---	---	---	---
14	350	340	346	290	243	262	---	---	---	---	---	---
15	357	350	354	275	255	266	---	---	---	---	---	---
16	365	357	361	304	275	293	---	---	---	---	---	---
17	372	365	368	309	304	307	---	---	---	---	---	---
18	373	360	367	311	285	300	---	---	---	---	---	---
19	360	349	355	327	270	299	271	267	270	---	---	---
20	349	309	324	275	238	254	271	238	251	---	---	---
21	309	306	307	309	266	287	238	215	220	---	---	---
22	307	305	306	330	309	315	230	218	224	---	---	---
23	305	303	304	350	321	334	243	230	239	---	---	---
24	311	303	307	365	343	352	255	243	249	234	232	233
25	325	311	318	364	330	345	270	253	262	234	225	230
26	331	324	328	---	---	---	---	---	---	249	226	240
27	342	331	337	---	---	---	---	---	---	270	246	258
28	363	342	356	---	---	---	---	---	---	255	250	252
29	370	363	366	---	---	---	---	---	---	251	244	248
30	365	359	361	---	---	---	264	254	260	244	241	242
31	384	361	377	---	---	---	271	259	266	242	240	241
MONTH	384	303	333	384	238	315	271	215	249	270	225	246

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	259	242	248	299	290	294	329	320	325	203	171	184
2	273	259	262	295	287	290	322	313	317	223	203	214
3	278	258	269	307	275	291	313	305	308	266	223	223
4	288	268	280	312	278	292	305	302	303	300	266	291
5	278	237	256	293	287	279	303	300	301	312	297	305
6	239	208	226	---	---	---	301	298	300	301	255	277
7	---	---	---	---	---	---	299	298	299	266	226	243
8	---	---	---	---	---	---	299	297	298	256	235	242
9	---	---	---	---	---	---	299	297	298	292	256	275
10	---	---	---	---	---	---	299	297	298	311	292	303
11	282	211	240	---	---	---	299	297	299	315	311	313
12	211	181	188	---	---	---	299	293	297	314	312	314
13	181	176	177	---	---	---	293	274	284	324	307	315
14	176	171	173	---	---	---	304	227	248	315	279	298
15	173	170	171	---	---	---	248	228	236	279	248	262
16	183	173	181	---	---	---	247	241	245	277	233	251
17	202	183	196	258	239	248	248	211	232	268	253	259
18	217	200	210	298	258	276	288	224	257	292	268	284
19	216	213	214	303	290	298	289	261	277	308	278	293
20	238	214	223	309	295	305	297	267	287	325	308	318
21	242	238	240	295	287	290	311	283	293	332	325	329
22	252	240	244	276	267	271	299	276	289	336	332	334
23	273	252	265	280	267	275	---	---	---	337	335	336
24	274	269	272	296	280	290	---	---	---	337	335	336
25	286	274	280	308	296	303	---	---	---	335	332	334
26	300	294	298	317	308	312	---	---	---	336	286	324
27	302	298	299	322	316	320	---	---	---	286	193	241
28	301	297	298	326	322	325	---	---	---	216	187	195
29	300	295	297	329	323	326	---	---	---	264	216	244
30	---	---	---	324	318	319	---	---	---	265	253	262
31	---	---	---	326	320	324	---	---	---	277	250	263
MONTH	302	170	240	329	239	296	329	211	286	337	171	279
	JUNE			JULY			AUGUST			SEPTEMBER		
1	266	238	249	384	380	382	350	267	319	334	329	331
2	256	236	248	381	368	373	370	323	350	343	334	340
3	251	237	241	378	370	375	---	---	---	355	342	349
4	248	239	244	383	364	372	---	---	---	357	355	356
5	251	238	243	381	364	368	---	---	---	365	330	353
6	261	239	248	375	363	366	---	---	---	330	312	321
7	261	254	257	377	372	375	290	249	266	341	300	326
8	254	232	243	376	364	370	357	290	325	308	293	298
9	232	197	218	364	350	358	387	357	373	322	308	319
10	198	186	190	351	289	332	411	375	394	325	320	322
11	187	184	186	289	263	271	---	---	---	335	325	329
12	186	167	177	282	265	273	---	---	---	340	335	338
13	184	173	180	295	281	287	---	---	---	340	331	334
14	198	179	186	321	294	302	---	---	---	338	331	333
15	187	180	183	335	321	330	---	---	---	332	327	328
16	219	183	203	339	331	334	---	---	---	334	327	330
17	249	219	234	341	337	339	---	---	---	337	331	334
18	278	248	265	342	333	336	---	---	---	196	196	254
19	279	244	256	352	335	344	---	---	---	245	204	222
20	311	277	301	354	351	352	---	---	---	249	204	232
21	346	311	329	363	354	358	292	266	281	245	225	229
22	363	344	355	372	363	364	345	292	316	232	225	228
23	377	356	366	377	365	371	334	308	319	251	232	240
24	---	---	---	396	366	377	342	309	327	273	251	262
25	376	373	374	404	356	373	310	304	306	286	273	281
26	377	375	376	378	354	363	336	310	323	288	286	287
27	382	376	379	360	351	355	340	299	317	288	287	288
28	381	378	380	364	331	343	376	340	358	288	287	288
29	385	381	382	350	333	342	360	340	347	308	288	299
30	385	383	384	349	328	334	343	334	337	303	277	298
31	---	---	---	341	329	335	340	327	333	---	---	---
MONTH	385	167	272	404	263	347	411	249	329	365	196	302
YEAR	411	167	297									

03309000 GREEN RIVER AT MAMMOTH CAVE, 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	7.6	7.9	7.8	7.7	7.7	7.3	7.2	7.6	7.5	7.4	7.3
2	7.7	7.7	7.9	7.8	7.7	7.6	7.2	7.1	7.6	7.5	7.4	7.3
3	7.7	7.7	7.8	7.7	7.6	7.6	7.4	7.1	7.5	7.5	7.4	7.3
4	7.7	7.6	7.8	7.7	7.6	7.6	7.6	7.4	---	---	7.4	7.2
5	7.7	7.6	7.8	7.7	7.7	7.6	7.6	7.6	---	---	7.3	7.2
6	7.7	7.7	7.7	7.7	7.6	7.6	7.7	7.6	7.4	7.2	---	---
7	7.7	7.6	7.7	7.6	7.6	7.5	7.7	7.7	---	---	7.4	7.2
8	7.7	7.6	7.7	7.6	7.5	7.5	7.7	7.7	---	---	7.5	7.4
9	7.7	7.6	7.8	7.7	7.5	7.5	7.7	7.7	---	---	7.5	7.5
10	7.6	7.6	7.8	7.7	7.6	7.5	7.7	7.7	---	---	7.6	7.5
11	7.6	7.5	7.8	7.7	7.6	7.6	7.7	7.6	7.4	7.4	7.6	7.6
12	7.6	7.6	7.8	7.7	7.6	7.6	7.6	7.6	7.4	7.4	7.6	7.6
13	7.6	7.5	7.7	7.5	7.6	7.6	7.6	7.6	7.4	7.4	7.6	7.6
14	7.7	7.6	7.6	7.5	7.6	7.6	7.6	7.6	7.4	7.4	7.6	7.6
15	7.7	7.6	7.6	7.5	7.6	7.6	7.6	7.6	7.4	7.4	7.6	7.6
16	7.7	7.6	7.7	7.6	7.6	7.5	7.6	7.6	7.4	7.3	7.6	7.5
17	7.7	7.7	7.7	7.6	7.6	7.6	7.6	7.6	7.3	7.3	7.6	7.6
18	7.7	7.6	7.7	7.6	7.6	7.6	7.6	7.5	7.3	7.3	7.7	7.6
19	7.7	7.7	7.6	7.4	7.7	7.4	7.5	7.5	7.3	7.2	7.7	7.7
20	7.7	7.6	7.4	7.3	7.6	7.5	7.5	7.5	7.3	7.2	7.7	7.7
21	7.7	7.6	---	---	7.6	7.6	7.5	7.5	7.3	7.2	7.7	7.6
22	7.7	7.6	---	---	7.6	7.6	7.5	7.5	7.3	7.2	7.6	7.6
23	7.7	7.6	---	---	7.6	7.6	7.6	7.4	7.4	7.2	7.6	7.5
24	7.7	7.6	7.5	7.4	7.6	7.6	7.6	7.6	7.4	7.2	7.6	7.5
25	7.8	7.6	7.5	7.5	7.6	7.6	7.6	7.6	7.3	7.1	7.7	7.6
26	7.7	7.6	7.5	7.3	7.6	7.6	7.6	7.6	7.3	7.2	7.7	7.6
27	7.8	7.6	7.5	7.4	7.6	7.4	7.7	7.6	7.4	7.2	7.8	7.6
28	7.7	7.7	7.6	7.5	7.4	7.4	7.6	7.6	7.5	7.2	7.8	7.7
29	7.7	7.6	7.7	7.6	7.4	7.4	7.7	7.6	7.5	7.3	7.8	7.6
30	7.8	7.7	7.7	7.7	7.4	7.3	7.7	7.6	---	---	7.8	7.7
31	7.9	7.8	---	---	7.3	7.3	7.7	7.6	---	---	7.8	7.7
MONTH	7.9	7.5	7.9	7.3	7.7	7.3	7.7	7.1	7.6	7.1	7.8	7.2
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.8	7.7	7.9	7.8	7.7	7.7	7.9	7.8	7.6	7.4	7.6	7.5
2	7.9	7.8	7.8	7.7	7.7	7.6	7.9	7.8	7.6	7.5	7.6	7.5
3	8.0	7.9	7.7	7.7	7.6	7.6	7.9	7.8	7.5	7.4	7.6	7.4
4	8.0	7.9	7.7	7.5	7.7	7.6	7.9	7.8	7.4	7.3	7.6	7.4
5	8.1	7.9	7.6	7.5	7.7	7.7	7.9	7.8	7.6	7.2	7.6	7.5

03309000 GREEN RIVER AT MAMMOTH CAVE, 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	16.2	15.5	16.0	15.2	14.1	14.6	9.6	9.4	9.5	7.7	7.3	7.4
2	15.5	14.7	15.1	15.6	14.5	15.1	9.4	9.1	9.3	9.6	7.5	8.4
3	14.7	14.2	14.5	15.9	14.9	15.5	9.9	9.0	9.4	10.1	9.6	9.8
4	15.2	14.4	14.7	16.1	14.9	15.6	10.9	9.9	10.5	11.6	10.1	10.9
5	14.9	14.4	14.7	16.3	15.7	16.0	10.9	10.6	10.8	11.7	11.3	11.6
6	15.5	14.6	15.0	16.1	15.2	15.7	10.6	10.0	10.4	11.3	9.2	10.3
7	16.0	15.1	15.5	15.2	14.0	14.6	10.0	9.2	9.6	9.2	7.4	8.1
8	16.4	15.4	15.9	14.0	12.7	13.5	9.2	8.8	8.9	7.4	6.6	6.9
9	16.7	15.9	16.3	12.7	12.0	12.4	9.4	9.0	9.1	6.6	6.3	6.4
10	17.3	16.5	16.9	12.4	11.9	12.1	10.2	9.4	9.8	6.3	6.1	6.2
11	17.9	16.9	17.4	12.8	12.2	12.6	10.2	9.8	10.1	6.1	5.6	5.8
12	17.9	17.1	17.5	13.8	12.8	13.3	9.8	8.8	9.2	5.7	5.2	5.4
13	18.1	17.3	17.8	13.4	12.3	12.8	8.8	8.5	8.6	5.8	5.0	5.4
14	17.9	16.6	17.3	12.3	12.1	12.2	8.5	8.3	8.4	5.8	5.5	5.6
15	16.6	15.7	16.2	12.2	11.4	11.9	8.3	8.1	8.2	5.7	5.6	5.7
16	15.9	14.9	15.6	11.4	11.2	11.3	8.6	8.0	8.2	5.7	5.5	5.6
17	15.7	15.1	15.3	11.9	11.3	11.6	8.9	8.6	8.8	5.9	5.5	5.6
18	15.4	14.7	15.1	13.1	11.9	12.4	8.9	8.5	8.8	6.3	5.9	6.2
19	15.3	14.3	14.8	14.1	13.1	13.7	8.5	7.8	8.3	6.4	6.1	6.3
20	15.6	14.4	15.0	14.2	13.9	14.1	7.8	6.9	7.3	6.3	5.6	5.9
21	15.9	14.9	15.4	13.9	13.1	13.4	6.9	6.6	6.8	5.6	5.0	5.2
22	15.9	15.2	15.6	13.1	12.6	12.8	7.2	6.8	6.9	5.0	4.8	4.9
23	15.6	14.7	15.2	13.0	12.7	12.9	7.8	7.2	7.6	4.8	4.3	4.6
24	15.2	14.2	14.8	13.0	11.8	12.5	8.0	7.8	7.9	4.9	4.4	4.7
25	15.2	14.3	14.8	11.8	11.1	11.5	7.8	7.1	7.4	5.3	4.6	4.8
26	15.2	14.6	14.9	11.1	10.2	10.5	7.1	6.6	6.8	6.6	5.3	6.3
27	14.7	13.9	14.4	10.4	10.1	10.2	6.6	6.2	6.4	6.4	6.1	6.3
28	13.9	13.3	13.5	10.9	10.4	10.8	6.7	6.0	6.3	6.5	6.2	6.4
29	13.7	13.0	13.4	10.9	9.9	10.5	7.5	6.6	7.0	6.2	5.4	5.6
30	13.9	12.9	13.5	9.9	9.6	9.7	8.3	7.5	8.0	5.4	4.6	4.9
31	14.5	13.3	14.0	---	---	---	8.1	7.6	7.8	4.6	4.0	4.3
MONTH	18.1	12.9	15.4	16.3	9.6	12.9	10.9	6.0	8.5	11.7	4.0	6.5
FEBRUARY			MARCH			APRIL			MAY			
1	4.2	3.8	4.1	9.6	9.0	9.2	14.1	13.3	13.8	16.2	15.2	15.6
2	4.9	4.2	4.4	10.6	9.6	10.0	13.3	12.8	13.0	16.1	15.2	15.5
3	6.7	4.9	6.2	10.5	10.1	10.3	13.5	12.3	12.9	15.3	14.8	15.0
4	6.4	6.0	6.3	11.4	10.4	10.9	13.4	12.5	13.0	14.8	14.1	14.5
5	7.0	5.8	6.2	11.9	11.4	11.7	13.4	12.2	12.8	15.1	14.2	14.6
6	7.4	5.8	6.7	12.4	11.8	12.1	13.8	12.4	13.1	16.4	14.8	15.5
7	6.8	5.8	6.3	11.9	11.5	11.7	14.4	13.0	13.7	17.6	16.1	16.6
8	7.4	6.8	7.1	11.5	10.5	10.9	15.5	14.2	14.8	18.2	17.2	17.7
9	7.4	7.1	7.2	10.5	8.8	9.6	15.8	14.7	15.3	19.5	17.9	18.7
10	7.2	7.0	7.1	8.8	8.1	8.3	15.5	15.1	15.3	20.2	19.0	19.6
11	7.0	6.0	6.2	8.1	7.5	7.7	15.6	15.1	15.3	20.8	19.7	20.3
12	6.0	5.3	5.5	7.7	7.3	7.5	15.3	13.7	14.6	21.1	20.0	20.5
13	5.3	4.9	5.1	7.9	7.5	7.7	13.7	11.9	12.6	21.0	20.7	20.8
14	4.9	4.5	4.7	8.7	7.9	8.3	11.9	10.1	10.6	21.2	20.7	20.9
15	4.8	4.6	4.7	9.8	8.4	8.9	11.4	9.8	10.4	20.8	16.4	18.6
16	4.9	4.6	4.8	9.8	9.6	9.7	13.1	11.4	12.2	17.1	16.5	16.8
17	5.3	4.8	5.1	10.3	9.6	9.8	13.7	13.1	13.3	17.8	16.6	17.1
18	5.9	5.1	5.5	11.5	10.3	10.9	14.8	13.7	14.3	18.8	17.7	18.2
19	6.2	5.4	5.8	12.1	11.0	11.6	15.9	14.6	15.3	19.2	18.4	18.8
20	6.9	6.1	6.4	12.6	11.7	12.1	16.1	15.2	15.6	20.3	19.1	19.6
21	7.1	6.9	7.0	12.4	11.7	12.0	16.2	15.6	16.1	21.1	20.0	20.4
22	7.6	6.9	7.3	11.7	11.1	11.3	15.6	14.5	15.0	21.8	20.6	21.2
23	7.9	7.3	7.6	11.1	10.2	10.6	14.7	14.5	14.6	22.3	21.2	21.7
24	8.7	7.8	8.2	11.5	10.7	11.1	14.9	14.5	14.6	22.5	21.8	21.1
25	8.5	8.0	8.2	12.8	11.4	12.1	15.1	14.7	14.9	22.5	21.8	22.1
26	8.3	8.0	8.2	14.5	12.7	13.6	15.2	15.0	15.1	22.0	19.8	21.3
27	8.8	7.8	8.3	15.7	14.3	14.9	15.2	14.8	15.0	19.8	18.3	18.7
28	8.9	7.9	8.4	16.3	15.0	15.5	14.8	14.3	14.4	18.3	17.9	18.1
29	9.2	8.4	8.7	16.2	15.4	15.9	14.9	14.3	14.6	18.8	18.2	18.4
30	---	---	---	15.4	14.7	14.9	15.2	14.9	15.1	18.9	18.7	18.8
31	---	---	---	14.7	14.1	14.4	---	---	---	18.9	17.9	18.4
MONTH	9.2	3.8	6.5	16.3	7.3	11.1	16.2	9.8	14.0	22.5	14.1	18.6

03309000 GREEN RIVER AT MAMMOTH CAVE, KY—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	10.0	9.7	9.9	9.9	9.2	9.5	---	---	---	11.8	11.6	11.7
2	10.2	9.9	10.1	9.8	9.0	9.4	---	---	---	11.9	11.0	11.5
3	10.5	10.0	10.4	9.5	8.6	9.2	---	---	---	---	---	---
4	10.5	10.2	10.4	9.4	8.5	9.2	---	---	---	---	---	---
5	10.5	10.0	10.3	9.0	8.5	8.8	---	---	---	---	---	---
6	10.4	10.1	10.3	8.6	8.2	8.6	---	---	---	---	---	---
7	10.3	10.0	10.2	8.9	8.1	8.8	---	---	---	---	---	---
8	10.1	9.8	10.0	9.4	8.5	9.2	---	---	---	---	---	---
9	10.1	9.6	9.9	10.0	8.9	9.8	---	---	---	---	---	---
10	9.8	9.2	9.5	10.3	9.5	10.2	---	---	---	---	---	---
11	9.5	8.8	9.3	10.3	9.7	10.0	---	---	---	---	---	---
12	9.3	8.4	9.1	9.8	9.4	9.7	---	---	---	---	---	---
13	9.2	8.0	8.7	9.6	9.2	9.4	---	---	---	---	---	---
14	8.9	8.1	8.6	9.4	8.9	9.1	---	---	---	---	---	---
15	9.3	8.3	8.8	9.5	8.8	9.2	---	---	---	---	---	---
16	9.7	8.9	9.3	10.0	9.5	9.8	---	---	---	---	---	---
17	9.6	8.9	9.4	10.2	9.9	10.1	---	---	---	---	---	---
18	9.7	9.1	9.4	10.2	9.7	10.1	---	---	---	---	---	---
19	10.0	9.2	9.7	9.7	8.2	9.3	---	---	---	---	---	---
20	10.0	9.4	9.7	8.3	8.0	8.2	11.6	11.1	11.4	---	---	---
21	9.9	9.2	9.6	---	---	---	11.9	11.6	11.8	---	---	---
22	9.8	9.0	9.5	---	---	---	11.9	11.8	11.9	---	---	---
23	9.8	9.0	9.4	---	---	---	11.8	11.4	11.6	13.9	13.7	13.8
24	10.0	9.2	9.6	---	---	---	11.4	11.2	11.3	14.2	13.8	14.0
25	9.9	9.3	9.6	---	---	---	11.6	11.3	11.4	14.3	13.8	14.1
26	9.4	8.9	9.2	---	---	---	11.9	11.6	11.8	13.8	13.2	13.5
27	9.8	8.9	9.3	---	---	---	12.1	11.9	12.1	13.6	13.3	13.5
28	9.8	8.9	9.4	---	---	---	12.2	12.1	12.2	13.7	13.0	13.3
29	---	---	---	---	---	---	12.1	11.8	11.9	14.5	13.4	14.0
30	9.9	9.3	9.7	---	---	---	11.8	11.4	11.5	14.7	14.2	14.4
31	10.0	9.2	9.6	---	---	---	11.6	11.4	11.5	14.9	14.3	14.7
MONTH	10.5	8.0	9.6	10.3	8.0	9.4	12.2	11.1	11.7	14.9	11.0	13.5
FEBRUARY			MARCH			APRIL			MAY			
1	15.1	14.7	14.9	11.5	10.8	11.3	10.2	8.8	9.6	9.7	9.3	9.5
2	15.0	14.4	14.8	11.2	10.7	11.0	10.6	9.7	10.2	9.3	9.2	9.3
3	14.5	13.3	13.7	11.0	10.5	10.9	11.0	10.4	10.7	9.2	9.0	9.2
4	13.7	13.3	13.5	10.7	10.2	10.5	11.2	10.4	10.8	9.1	8.9	9.0
5	13.6	12.7	13.4	10.4	9.7	10.2	11.3	10.5	10.9	---	---	---
6	---	---	---	10.1	9.6	9.9	11.4	10.5	10.9	---	---	---
7	---	---	---	---	---	---	11.3	10.2	10.7	---	---	---
8	---	---	---	---	---	---	11.0	10.0	10.4	9.8	9.4	9.6
9	---	---	---	---	---	---	10.8	9.7	10.2	9.4	9.0	9.2
10	---	---	---	---	---	---	10.5	9.5	10.0	9.0	8.6	8.8
11	12.6	11.9	12.3	---	---	---	10.5	9.2	9.8	8.8	8.4	8.6
12	13.0	12.6	12.9	---	---	---	9.7	8.9	9.3	8.7	8.0	8.4
13	13.2	13.0	13.1	---	---	---	9.1	8.7	8.9	8.3	7.7	8.0
14	13.3	13.2	13.3	---	---	---	9.1	8.7	8.9	7.8	7.2	7.6
15	13.3	13.2	13.2	---	---	---	9.4	9.0	9.3	7.2	6.8	7.0
16	13.2	13.1	13.2	10.6	10.3	10.5	9.2	8.5	8.9	7.0	6.4	6.7
17	13.1	12.9	13.0	10.5	10.3	10.4	8.9	8.1	8.5	---	---	---
18	12.9	12.6	12.8	10.5	10.1	10.3	8.8	8.3	8.6	---	---	---
19	12.8	12.4	12.6	10.5	10.2	10.3	8.6	8.0	8.3	---	---	---
20	12.5	11.8	12.3	10.4	9.7	10.2	---	---	---	8.8	8.6	8.7
21	12.0	11.7	11.9	10.2	9.6	10.0	---	---	---	8.8	8.4	8.6
22	11.9	11.7	11.8	10.0	9.6	9.8	---	---	---	8.9	8.4	8.6
23	11.9	11.6	11.8	10.4	9.6	10.1	---	---	---	9.0	8.3	8.6
24	11.7	11.4	11.6	10.6	10.0	10.4	---	---	---	9.2	8.2	8.7
25	11.6	11.3	11.5	10.7	9.5	10.3	---	---	---	9.6	8.3	8.9
26	11.6	11.3	11.5	10.4	9.1	10.0	10.2	10.0	10.1	8.7	8.0	8.3
27	11.7	11.3	11.6	10.2	9.0	9.6	10.2	10.0	10.1	---	---	---
28	11.8	11.4	11.7	9.9	8.9	9.3	10.2	10.0	10.1	---	---	---
29	11.8	11.4	11.6	9.9	8.6	9.1	10.2	10.0	10.0	---	---	---
30	---	---	---	9.9	8.6	9.3	10.0	9.7	9.8	---	---	---
31	---	---	---	9.9	8.5	9.4	---	---	---	---	---	---
MONTH	15.1	11.3	12.7	11.5	8.5	10.1	11.4	8.0	9.8	9.8	6.4	8.6

03309000 GREEN RIVER AT MAMMOTH CAVE, KY—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	15	12	14	---	---	---	---	---	---	---	---	---
2	13	10	11	---	---	---	---	---	---	---	---	---
3	11	9.1	10	---	---	---	---	---	---	---	---	---
4	11	8.1	9.6	---	---	---	---	---	---	---	---	---
5	10	8.2	8.7	---	---	---	---	---	---	---	---	---
6	10	6.3	8.2	---	---	---	---	---	---	---	---	---
7	9.3	6.3	8.0	---	---	---	---	---	---	---	---	---
8	9.4	6.3	8.0	---	---	---	---	---	---	---	---	---
9	9.4	6.4	7.6	---	---	---	---	---	---	---	---	---
10	9.4	6.5	7.0	---	---	---	---	---	---	---	---	---
11	8.5	5.5	6.7	---	---	---	---	---	---	---	---	---
12	7.6	4.6	5.7	---	---	---	---	---	---	---	---	---
13	6.6	3.6	5.0	---	---	---	---	---	---	---	---	---
14	6.7	3.7	5.0	---	---	---	---	---	---	---	---	---
15	5.7	3.7	4.4	---	---	---	---	---	---	---	---	---
16	5.8	3.7	4.1	---	---	---	---	---	---	---	---	---
17	6.8	4.8	5.3	---	---	---	---	---	---	---	---	---
18	6.9	5.8	6.5	---	---	---	---	---	---	---	---	---
19	6.9	5.9	6.5	---	---	---	---	---	---	---	---	---
20	7.0	5.9	6.4	---	---	---	23	15	19	---	---	---
21	8.0	6.0	7.3	---	---	---	26	15	21	---	---	---
22	8.1	6.0	7.4	---	---	---	16	9.8	13	---	---	---
23	7.1	3.1	4.8	---	---	---	12	9.2	11	---	---	---
24	4.1	3.1	3.3	---	---	---	16	8.8	12	130	120	130
25	5.2	3.2	3.7	---	---	---	26	14	22	130	120	120
26	5.3	3.2	3.9	---	---	---	24	15	19	130	130	130
27	5.3	3.3	3.7	---	---	---	16	14	15	150	130	140
28	4.4	3.3	3.6	---	---	---	19	14	16	140	130	130
29	---	---	---	---	---	---	24	17	21	130	120	130
30	---	---	---	---	---	---	110	24	54	130	120	120
31	---	---	---	---	---	---	---	---	---	130	120	130
MONTH	15	3.1	6.6	---	---	---	110	8.8	20	150	120	130
FEBRUARY			MARCH			APRIL			MAY			
1	130	120	120	140	140	140	20	8.1	10	22	11	15
2	120	120	120	150	140	140	12	5.8	7.6	23	11	14
3	140	120	130	---	---	---	8.6	5.0	6.0	35	12	22
4	160	130	140	---	---	---	8.0	4.7	5.6	32	16	23
5	160	140	150	---	---	---	7.3	4.3	5.0	21	16	18
6	---	---	---	---	---	---	6.5	3.7	4.8	24	15	19
7	---	---	---	---	---	---	9.3	4.6	5.4	25	9.0	15
8	---	---	---	---	---	---	7.2	3.7	4.5	17	9.2	11
9	---	---	---	---	---	---	7.1	2.7	4.2	15	7.8	9.7
10	---	---	---	---	---	---	5.6	2.9	3.8	15	6.5	8.5
11	45	29	38	---	---	---	4.1	2.2	3.2	10	6.1	7.5
12	74	45	60	---	---	---	3.9	2.1	3.1	12	5.9	7.4
13	66	51	56	---	---	---	---	---	---	10	6.0	7.6
14	65	56	60	---	---	---	---	---	---	12	6.6	7.8
15	65	55	60	---	---	---	---	---	---	140	7.6	49
16	61	53	55	---	---	---	---	---	---	310	63	180
17	68	50	57	39	34	36	---	---	---	190	34	77
18	84	66	76	37	31	33	---	---	---	39	14	30
19	110	84	96	32	28	30	---	---	---	26	11	17
20	110	100	100	48	28	33	---	---	---	14	9.1	11
21	170	100	130	85	45	57	---	---	---	18	8.7	11
22	160	140	150	170	75	110	---	---	---	13	7.5	9.8
23	160	140	150	79	52	61	---	---	---	18	6.8	9.0
24	190	140	160	52	32	40	---	---	---	---	---	---
25	170	160	160	34	26	29	---	---	---	16	6.3	9.3
26	---	---	---	27	21	24	---	---	---	91	7.3	24
27	160	150	150	26	17	20	27	19	24	480	72	200
28	150	140	150	23	14	17	100	22	43	340	82	200
29	140	140	140	18	12	14	---	---	26	250	55	100
30	---	---	---	15	10	12	28	16	22	180	67	100
31	---	---	---	13	9.0	11	---	---	---	98	41	78
MONTH	190	29	110	170	9.0	47	100	2.1	11	480	5.9	43

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03310300 NOLIN RIVER AT WHITE MILLS, KY

LOCATION.--Lat 37°33'03", long 86°02'43", Hardin County, Hydrologic Unit 05110001, on right bank, 0.8 mi southwest of White Mills, 1.6 mi downstream from bridge on State Highway 84, and at mile 78.7.

DRAINAGE AREA.--357 mi², of which about 120 mi² does not contribute directly to surface runoff.

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

GAGE.--Water-stage recorder with telemetry. Datum of gage is 583.08 ft above NGVD of 1929. Prior to Jan. 8, 1960, nonrecording gage at same site and datum.

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

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 3	1300	4820	16.40	May 31	1930	4550	15.70
Feb 6	1315	3070	11.68	Jul 31	2030	3660	13.30
Mar 6	1000	2570	10.25	Aug 6	1730	3180	12.00
May 28	0615	*8480	24.51				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e334	e207	e1,010	750	e398	246	345	605	3,460	253	2,170	165
2	e302	e89	e730	2,250	e678	288	313	1,490	1,880	242	904	159
3	e264	e60	e546	4,390	1,810	285	292	1,450	1,470	230	663	160
4	e237	e45	547	2,090	1,450	285	273	980	1,220	466	536	154
5	e224	e45	635	2,170	1,240	350	254	803	1,060	438	1,390	151
6	e213	e237	645	1,850	2,880	2,160	240	683	915	404	2,900	146
7	e188	e517	582	1,360	1,920	1,400	231	583	806	435	1,450	137
8	e180	e517	533	1,140	1,360	952	227	510	717	371	806	133
9	e153	e266	497	1,010	1,120	765	217	452	643	303	623	130
10	e130	e207	591	882	978	641	206	407	586	441	528	126
11	e111	e89	1,260	771	857	548	197	370	536	854	461	121
12	e97	e813	823	702	762	489	200	342	506	951	413	121
13	e91	e2,010	674	642	682	439	645	318	557	717	368	131
14	e113	e1,130	623	581	617	405	1,580	307	581	457	332	128
15	e133	e813	606	540	573	385	899	383	500	438	303	e200
16	e148	e672	666	491	512	385	664	1,040	473	349	279	e361
17	e137	e531	1,230	456	466	391	541	552	558	302	260	e946
18	e130	e1,020	966	579	436	352	460	460	2,030	270	244	e1,880
19	e130	e1,940	830	777	411	323	403	425	1,240	244	229	e1,390
20	e124	e1,410	719	591	397	313	369	408	765	224	216	e847
21	e113	e1,030	611	518	382	441	402	366	609	207	257	e569
22	e106	e801	557	484	353	405	975	327	520	199	344	e433
23	e86	e432	544	449	331	340	1,670	300	523	1,340	247	e291
24	e82	e712	965	420	316	316	1,500	276	458	746	217	e196
25	e62	e771	839	418	299	299	1,080	266	420	419	283	e114
26	e94	e624	688	590	282	284	975	1,820	393	316	230	e105
27	e316	e1,050	600	916	271	274	779	6,150	348	266	241	e101
28	e360	e2,210	547	e770	258	264	653	7,760	314	236	211	e91
29	e266	e2,490	522	e646	247	261	564	3,240	289	213	192	e87
30	e222	e1,680	1,070	e531	---	359	554	2,710	268	199	182	e82
31	e222	---	937	e450	---	395	---	4,110	---	2,360	176	---
TOTAL	5,368	24,418	22,593	30,214	22,286	15,040	17,708	39,893	24,645	14,890	17,655	9,655
MEAN	173	814	729	975	768	485	590	1,287	822	480	570	322
MAX	360	2,490	1,260	4,390	2,880	2,160	1,670	7,760	3,460	2,360	2,900	1,880
MIN	62	45	497	418	247	246	197	266	268	199	176	82
CFSM	0.73	3.43	3.08	4.11	3.24	2.05	2.49	5.43	3.47	2.03	2.40	1.36
IN.	0.84	3.83	3.55	4.74	3.50	2.36	2.78	6.26	3.87	2.34	2.77	1.52

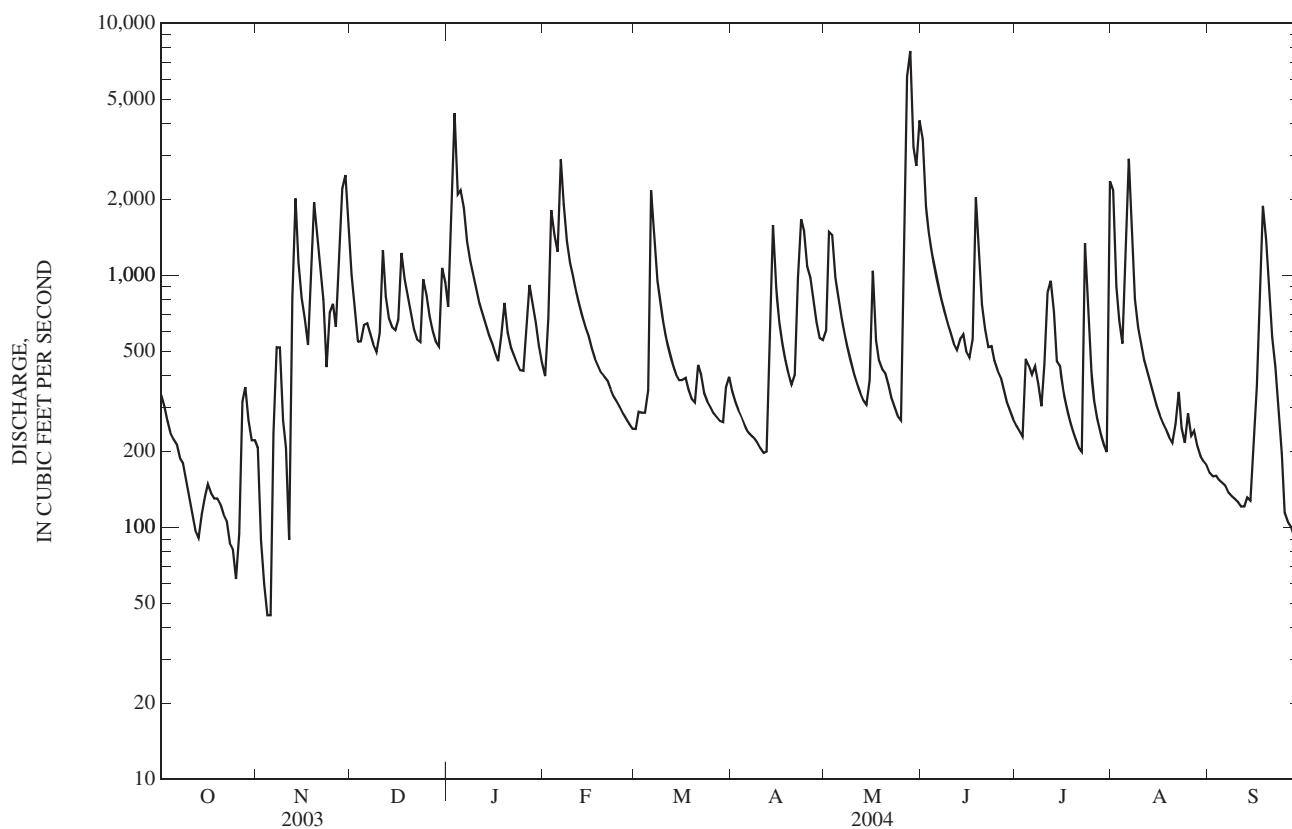
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2004, BY WATER YEAR (WY)

MEAN	159	295	615	672	877	968	754	608	374	247	180	208
MAX	692	1,206	2,356	1,603	3,807	3,353	2,447	2,715	1,630	972	966	2,258
(WY)	(1978)	(1989)	(1979)	(1974)	(1989)	(1997)	(1972)	(1983)	(1997)	(1967)	(1967)	(1979)
MIN	37.0	44.3	44.7	55.5	156	228	200	131	71.9	83.2	48.6	35.6
(WY)	(1970)	(2000)	(1964)	(1981)	(1964)	(1983)	(1986)	(1976)	(1988)	(1994)	(1999)	(1999)

03310300 NOLIN RIVER AT WHITE MILLS, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1960 - 2004	
ANNUAL TOTAL	281,454		244,365		495	
ANNUAL MEAN	771		668		971	
HIGHEST ANNUAL MEAN					217	
LOWEST ANNUAL MEAN					20,000	
HIGHEST DAILY MEAN	7,580	Feb 16	7,760	May 28	31	Mar 2, 1997
LOWEST DAILY MEAN	45	Nov 4	45	Nov 4	27	Oct 23, 1998
ANNUAL SEVEN-DAY MINIMUM	81	Aug 20	95	Oct 20	31	Oct 17, 1998
MAXIMUM PEAK FLOW			8,480	May 28	24,500	Mar 2, 1997
MAXIMUM PEAK STAGE			24.51	May 28	36.46	Mar 2, 1997
INSTANTANEOUS LOW FLOW					31	Oct 1, 1959
ANNUAL RUNOFF (CFSM)	3.25		2.82		2.09	
ANNUAL RUNOFF (INCHES)	44.18		38.36		28.35	
10 PERCENT EXCEEDS	1,680		1,400		1,080	
50 PERCENT EXCEEDS	489		450		247	
90 PERCENT EXCEEDS	134		147		60	

e Estimated



03311000 NOLIN RIVER AT KYROCK, KY

LOCATION.--Lat 37°16'42", long 86°14'51", Edmonson County, Hydrologic Unit 05110001, in intake structure of Nolin River Dam on Nolin River, 0.3 mi upstream from Dismal Creek, 1.1 mi northeast of Kyrock, and at mile 7.8.

DRAINAGE AREA.--703 mi², of which about 223 mi² does not contribute directly to surface runoff. Area at site used Oct. 1, 1960, to Sept. 30, 1973, 707 mi².

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--October 1930 to March 1932, July 1939 to September 1950, October 1960 to current year.

GAGE.--Water-stage recorder with telemetry and outflow gate dials. Datum of gage is 400 ft above NGVD of 1929. See WDR KY-90-1 for history of changes prior to Sept. 30, 1973.

REMARKS.--Water-discharge records not rated, (see COOPERATION). Maximum gage height for period of record affected by backwater from the Green River. Flow regulated since March 1963 by Nolin Lake (station 03310900). Discharge records computed using gate openings.

COOPERATION.--Record of discharge furnished by U.S. Army Corps of Engineers, Louisville District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since 1854, 26.35 ft, in January 1937, from floodmarks, at site and datum used in 1939-50.

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

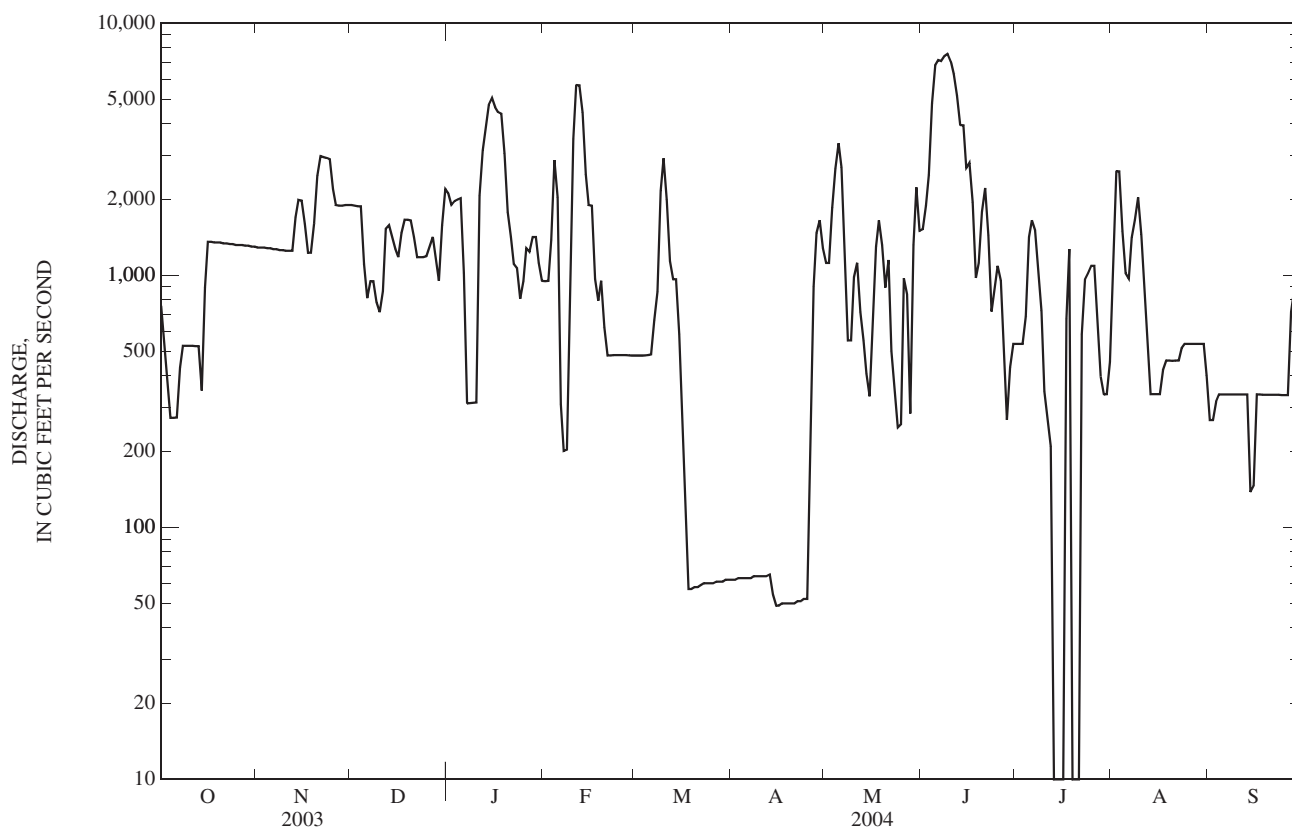
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	758	1,290	1,900	2,120	949	481	62	1,120	1,520	535	1,230	267
2	545	1,290	1,890	1,900	950	481	62	1,120	1,890	535	2,590	267
3	375	1,290	1,880	1,970	1,380	481	63	1,850	2,500	535	2,580	316
4	272	1,280	1,880	2,000	2,860	481	63	2,650	4,810	688	1,500	337
5	272	1,280	1,110	2,020	2,040	482	63	3,340	6,800	1,420	1,020	337
6	273	1,270	811	1,020	308	486	63	2,680	7,140	1,650	971	337
7	431	1,270	948	310	201	663	63	1,220	7,090	1,510	1,410	337
8	525	1,260	948	311	203	860	64	552	7,400	1,080	1,660	337
9	525	1,260	782	312	683	2,160	64	552	7,560	722	2,040	337
10	525	1,250	715	313	3,470	2,910	64	982	7,050	347	1,450	337
11	525	1,250	865	2,070	5,680	1,990	64	1,120	6,280	266	956	337
12	524	1,250	1,530	3,130	5,670	1,140	64	716	5,160	210	613	337
13	524	1,700	1,580	3,810	4,420	966	65	551	3,950	0.00	338	337
14	349	1,990	1,420	4,750	2,520	965	54	407	3,930	0.00	338	138
15	894	1,980	1,270	5,050	1,900	584	49	331	2,660	0.00	338	146
16	1,360	1,600	1,180	4,640	1,890	276	49	595	2,790	0.00	338	337
17	1,360	1,230	1,470	4,430	968	142	50	1,300	1,950	672	422	337
18	1,350	1,230	1,660	4,370	794	57	50	1,650	977	1,270	459	336
19	1,350	1,610	1,660	3,040	950	57	50	1,320	1,120	0.00	459	336
20	1,350	2,480	1,650	1,780	623	58	50	894	1,790	0.00	458	336
21	1,340	2,970	1,420	1,420	481	58	50	1,150	2,220	0.00	459	336
22	1,340	2,950	1,180	1,110	481	59	51	501	1,440	584	459	336
23	1,330	2,920	1,180	1,070	482	60	51	365	718	962	513	336
24	1,330	2,890	1,180	807	482	60	52	249	887	1,020	535	335
25	1,320	2,200	1,190	949	482	60	52	257	1,090	1,090	535	335
26	1,320	1,900	1,300	1,280	482	60	338	972	953	1,090	535	335
27	1,320	1,890	1,420	1,240	482	61	901	842	435	695	535	717
28	1,310	1,890	1,180	1,420	481	61	1,470	283	267	397	535	882
29	1,310	1,900	950	1,420	481	61	1,650	1,320	432	337	535	880
30	1,300	1,900	1,580	1,120	---	62	1,280	2,230	535	338	534	663
31	1,300	---	2,200	950	---	62	---	1,500	---	454	401	---
TOTAL	28,607	52,470	41,929	62,132	42,793	16,384	7,071	34,619	93,344	18,407.00	26,746	11,341
MEAN	923	1,749	1,353	2,004	1,476	529	236	1,117	3,111	594	863	378
MAX	1,360	2,970	2,200	5,050	5,680	2,910	1,650	3,340	7,560	1,650	2,590	882
MIN	272	1,230	715	310	201	57	49	249	267	0.00	338	138

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	938	1,336	1,232	1,479	1,563	1,209	864	1,090	882	496	306	508
MAX	4,959	3,393	4,491	4,852	4,541	5,533	4,777	4,161	4,437	2,009	1,335	2,266
(WY)	(1980)	(1973)	(1978)	(1979)	(1985)	(1989)	(1975)	(1984)	(1983)	(1967)	(1967)	(1982)
MIN	0.00	452	1.50	122	91.4	203	0.63	0.39	0.00	0.00	0.00	0.00
(WY)	(1976)	(1964)	(1985)	(1981)	(1992)	(1983)	(1966)	(1964)	(1964)	(1964)	(1964)	(1975)

03311000 NOLIN RIVER AT KYROCK, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	489,176		435,843.00		989	
ANNUAL MEAN	1,340		1,191		1,880	
HIGHEST ANNUAL MEAN					456	
LOWEST ANNUAL MEAN					10,300	
HIGHEST DAILY MEAN	6,200	May 12	7,560	Jun 9	22,700	May 28, 1983
LOWEST DAILY MEAN	35	Feb 10	0.00	Jul 13	0.00	May 2, 1964
ANNUAL SEVEN-DAY MINIMUM	49	Apr 2	50	Apr 15	0.00	May 2, 1964
MAXIMUM PEAK FLOW					59.27	Jan 30, 1932
MAXIMUM PEAK STAGE					2,520	Mar 2, 1962
10 PERCENT EXCEEDS	3,340		2,540		478	
50 PERCENT EXCEEDS	1,090		924		52	
90 PERCENT EXCEEDS	178		63			



03311000 NOLIN RIVER AT KYROCK, KY

WATER DISCHARGE RECORDS

WATER-QUALITY RECORDS--Water years 1950, 1963-82, August 1989-95, October 2003, to current water year.

PERIOD OF DAILY RECORD.--

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

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

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

EXTREMES FOR CURRENT YEAR.--Maximum 22.4°C, Jul. 7, 2004 and Sept. 6-7, 2004; minimum 5.4°C, Feb. 11, 12 and 13.

REMARKS.--Water Temperature records rated excellent except the following periods: Jul. 29-Aug. 13 rated good.

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	20.8	20.5	20.7	18.1	18.0	18.1	13.7	13.4	13.6	7.7	7.6	7.6
2	20.5	19.9	20.1	18.1	18.0	18.0	13.4	13.2	13.3	7.9	7.6	7.7
3	19.9	19.4	19.6	18.0	17.9	18.0	13.2	13.0	13.1	8.0	7.9	7.9
4	19.5	19.2	19.3	18.0	17.9	17.9	13.0	12.8	12.9	8.0	8.0	8.0
5	19.3	18.9	19.0	17.9	17.9	17.9	12.8	12.5	12.6	8.2	8.0	8.1
6	19.0	18.7	18.8	17.9	17.8	17.8	12.5	12.2	12.4	8.2	8.1	8.2
7	18.9	18.6	18.8	17.8	17.7	17.7	12.2	12.0	12.1	8.1	8.0	8.0
8	19.1	18.9	19.0	17.7	17.5	17.6	12.0	11.8	11.9	8.0	7.9	7.9
9	19.3	19.1	19.2	17.5	17.3	17.4	11.8	11.7	11.7	7.9	7.9	7.9
10	19.5	19.3	19.4	17.3	17.2	17.2	11.7	11.5	11.6	7.9	7.8	7.8
11	19.5	19.4	19.4	17.2	17.1	17.1	11.5	11.2	11.3	7.8	7.7	7.8
12	19.5	19.3	19.4	17.1	17.0	17.0	11.2	11.0	11.1	7.7	7.7	7.7
13	19.4	19.2	19.3	17.0	16.7	16.8	11.0	10.7	10.8	7.8	7.7	7.8
14	19.4	18.5	19.0	16.7	16.5	16.6	10.7	10.4	10.6	7.8	7.8	7.8
15	18.5	17.2	17.7	16.5	16.4	16.5	10.4	10.2	10.3	7.9	7.8	7.9
16	18.0	17.5	17.8	16.4	16.2	16.3	10.2	10.0	10.1	8.0	7.9	8.0
17	18.2	18.0	18.1	16.2	16.1	16.1	10.0	9.8	9.9	8.1	8.0	8.0
18	18.3	18.2	18.2	16.1	16.0	16.1	9.8	9.6	9.8	8.1	8.1	8.1
19	18.3	18.3	18.3	16.0	15.8	15.9	9.7	9.3	9.5	8.1	8.1	8.1
20	18.3	18.3	18.3	15.9	15.7	15.8	9.3	9.1	9.2	8.1	7.9	8.0
21	18.4	18.3	18.3	15.7	15.6	15.6	9.1	8.8	9.0	7.9	7.8	7.9
22	18.4	18.3	18.3	15.6	15.4	15.5	8.8	8.7	8.8	7.8	7.7	7.7
23	18.4	18.3	18.4	15.4	15.3	15.3	8.7	8.6	8.7	7.7	7.5	7.6
24	18.4	18.4	18.4	15.3	15.1	15.2	8.6	8.4	8.5	7.5	7.4	7.5
25	18.4	18.4	18.4	15.1	14.9	15.0	8.4	8.3	8.4	7.4	7.3	7.4
26	18.4	18.4	18.4	14.9	14.6	14.7	8.3	8.1	8.2	7.3	7.2	7.2
27	18.4	18.3	18.4	14.6	14.5	14.6	8.1	8.0	8.0	7.3	7.1	7.2
28	18.4	18.3	18.3	14.5	14.2	14.4	8.0	7.8	7.9	7.1	6.9	7.0
29	18.3	18.2	18.2	14.2	14.0	14.1	7.9	7.9	7.9	6.9	6.8	6.9
30	18.2	18.1	18.1	14.0	13.7	13.8	7.9	7.8	7.8	6.8	6.7	6.7
31	18.1	18.1	18.1	---	---	---	7.8	7.7	7.8	6.7	6.5	6.5
MONTH	20.8	17.2	18.7	18.1	13.7	16.3	13.7	7.7	10.3	8.2	6.5	7.7

TEMPERATURE, WATER, 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	6.5	6.3	6.4	7.1	7.0	7.0	11.6	11.4	11.5	12.1	12.0	12.0
2	6.4	6.3	6.3	7.2	7.1	7.1	11.5	11.3	11.4	12.0	12.0	12.0
3	6.3	6.2	6.2	7.3	7.2	7.2	11.6	11.4	11.5	12.0	12.0	12.0
4	6.2	6.1	6.1	7.4	7.3	7.3	11.6	11.4	11.5	12.2	12.0	12.1
5	6.1	5.9	6.0	7.8	7.4	7.5	11.6	11.2	11.4	12.5	12.2	12.4
6	6.0	5.9	5.9	7.9	7.8	7.9	11.5	11.2	11.3	12.8	12.5	12.7
7	5.9	5.9	5.9	7.9	7.7	7.8	11.9	11.5	11.6	12.8	12.8	12.8
8	5.9	5.8	5.8	7.8	7.7	7.7	12.6	11.9	12.2	12.8	12.6	12.7
9	5.8	5.7	5.7	8.0	7.8	7.8	12.6	12.2	12.4	12.6	12.6	12.6
10	5.7	5.5	5.6	8.2	8.0	8.1	12.6	12.4	12.5	12.6	12.5	12.6
11	5.5	5.4	5.4	8.3	8.2	8.3	12.8	12.5	12.6	12.8	12.6	12.7
12	5.4	5.4	5.4	8.4	8.3	8.3	12.8	12.3	12.6	12.9	12.8	12.9
13	5.5	5.4	5.4	8.5	8.4	8.4	12.3	11.4	11.8	12.9	12.9	12.9
14	5.6	5.5	5.5	8.7	8.5	8.6	11.4	11.2	11.2	13.0	12.9	12.9
15	5.8	5.6	5.7	8.9	8.7	8.8	11.3	11.1	11.2	13.3	13.0	13.2
16	5.9	5.8	5.8	9.0	8.8	8.9	12.0	11.3	11.6	13.2	13.0	13.1
17	6.0	5.9	5.9	9.3	9.0	9.1	12.8	12.0	12.4	13.3	13.0	13.2
18	6.0	6.0	6.0	9.5	9.3	9.3	13.6	12.8	13.2	13.7	13.3	13.5
19	6.1	6.0	6.1	9.7	9.5	9.6	14.2	13.6	14.0	13.9	13.7	13.8
20	6.3	6.1	6.2	---	---	9.9	14.7	14.2	14.4	14.0	13.9	13.9
21	6.3	6.3	6.3	---	---	---	14.8	14.7	14.8	14.3	14.0	14.1
22	6.4	6.3	6.4	---	---	---	14.7	14.2	14.4	14.9	14.3	14.6
23	6.5	6.4	6.5	---	---	---	14.2	13.9	14.0	15.3	14.9	15.1
24	6.7	6.5	6.6	---	---	---	13.9	13.8	13.8	15.8	15.3	15.5
25	6.8	6.7	6.8	---	---	---	13.9	13.7	13.8	16.3	15.8	16.0
26	6.9	6.8	6.8	---	---	10.7	14.0	13.6	13.9	16.9	16.1	16.5
27	6.9	6.9	6.9	11.4	10.7	11.1	13.6	12.5	13.0	16.5	16.4	16.4
28	6.9	6.9	6.9	11.9	11.4	11.7	12.5	12.2	12.3	16.4	16.2	16.3
29	7.0	6.9	6.9	12.2	11.9	12.1	12.2	12.1	12.1	16.3	15.9	16.2
30	---	---	---	12.2	11.9	12.0	12.1	12.0	12.1	15.9	15.8	15.9
31	---	---	---	11.9	11.6	11.7	---	---	---	15.8	15.7	15.8
MONTH	7.0	5.4	6.1	12.2	7.0	9.0	14.8	11.1	12.6	16.9	12.0	13.8
	JUNE			JULY			AUGUST			SEPTEMBER		
1	15.7	15.6	15.6	19.7	19.6	19.7	21.3	20.6	21.0	22.1	21.5	21.8
2	15.6	15.6	15.6	19.9	19.7	19.7	20.6	20.2	20.4	21.9	21.6	21.7
3	15.7	15.6	15.6	20.0	19.9	19.9	20.2	20.0	20.1	21.7	21.5	21.6
4	16.1	15.7	15.8	20.2	20.0	20.1	20.0	19.9	19.9	22.0	21.6	21.7
5	16.8	16.1	16.5	20.0	19.5	19.7	19.9	19.7	19.7	22.3	21.9	22.1
6	17.2	16.8	17.0	19.5	19.2	19.3	19.7	19.7	19.7	22.4	22.0	22.2
7	17.5	17.2	17.3	19.2	19.1	19.1	19.7	19.6	19.6	22.4	22.1	22.2
8	17.8	17.5	17.7	19.1	19.0	19.0	19.8	19.6	19.7	22.1	21.6	21.8
9	18.0	17.8	17.9	19.2	19.0	19.0	19.9	19.7	19.8	21.6	21.1	21.3
10	18.2	18.0	18.1	19.7	19.2	19.4	20.0	19.9	19.9	21.2	20.8	21.1
11	18.3	18.2	18.2	20.3	19.7	19.9	19.9	19.8	19.9	21.3	20.8	21.1
12	18.4	18.3	18.3	20.7	20.0	20.3	20.0	19.9	19.9	21.4	21.1	21.2
13	18.4	18.3	18.4	21.8	20.4	20.7	20.2	19.8	19.9	21.4	21.1	21.3
14	18.4	18.3	18.3	21.9	21.5	21.7	20.6	20.2	20.4	21.6	21.2	21.3
15	18.4	18.3	18.3	21.8	21.3	21.6	20.7	20.5	20.6	21.6	21.3	21.5
16	18.3	18.3	18.3	22.0	21.6	21.8	20.7	20.3	20.5	21.8	21.6	21.7
17	18.3	18.3	18.3	22.1	21.8	22.0	20.7	20.3	20.6	21.7	21.4	21.5
18	18.3	18.1	18.2	22.0	20.8	21.3	21.1	20.6	20.8	21.4	21.1	21.2
19	18.2	18.1	18.1	20.9	20.3	20.6	21.6	21.0	21.2	21.8	21.4	21.6
20	18.1	18.0	18.1	21.4	20.8	21.0	21.7	21.4	21.6	22.0	21.8	21.9
21	18.2	18.1	18.1	22.0	21.4	21.6	21.5	21.3	21.4	22.0	21.8	21.9
22	18.2	18.1	18.2	22.4	22.0	22.2	21.3	20.9	21.1	21.9	21.6	21.7
23	18.1	18.1	18.1	22.1	20.8	21.3	21.3	21.2	21.3	21.7	21.4	21.5
24	18.2	18.0	18.1	20.8	20.1	20.4	21.6	21.3	21.4	21.5	21.1	21.3
25	18.3	18.2	18.2	20.1	19.9	20.0	21.8	21.6	21.6	21.4	21.2	21.3
26	18.4	18.3	18.3	19.9	19.8	19.9	21.9	21.8	21.9	21.3	20.7	21.0
27	18.8	18.4	18.5	20.0	19.8	19.8	21.9	21.8	21.9	21.0	20.6	20.8
28	19.5	18.8	19.0	20.4	20.0	20.1	22.1	21.9	21.9	20.6	20.5	20.5
29	19.6	19.4	19.5	20.6	20.0	20.3	22.2	22.0	22.1	20.5	20.5	20.5
30	19.6	19.6	19.6	21.2	20.6	20.8	22.2	21.9	22.0	20.6	20.3	20.4
31	---	---	---	21.5	21.2	21.3	22.0	21.6	21.8	---	---	---
MONTH	19.6	15.6	17.8	22.4	19.0	20.4	22.2	19.6	20.8	22.4	20.3	21.4
YEAR	22.4	5.4	14.7									

03311500 GREEN RIVER AT LOCK 6, AT BROWNSVILLE, KY

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

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

WATER-QUALITY RECORDS

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

INSTRUMENTATION.--Temperature recorder with telemetry since December 1999.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum 22.9°C, July 22, 23; minimum 6.9°C, Feb. 3.

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	18.7	18.4	18.6	16.3	16.2	16.3	12.6	12.5	12.6	9.1	9.0	9.0
2	18.4	17.8	18.1	16.5	16.3	16.4	12.5	12.3	12.4	9.1	8.9	8.9
3	17.8	17.3	17.5	16.5	16.4	16.4	12.3	11.9	12.1	9.3	8.9	9.1
4	17.4	17.0	17.2	16.5	16.4	16.4	11.9	11.7	11.7	9.7	9.3	9.5
5	17.1	16.7	16.9	16.6	16.4	16.5	12.0	11.7	11.8	10.3	9.7	10.0
6	16.8	16.6	16.7	16.6	16.5	16.6	12.0	12.0	12.0	10.6	10.3	10.5
7	16.7	16.5	16.6	16.5	16.2	16.4	12.0	11.9	11.9	10.7	10.5	10.6
8	16.7	16.6	16.6	16.3	15.9	16.1	11.9	11.7	11.8	10.5	10.2	10.4
9	17.1	16.7	16.9	15.9	15.4	15.7	11.7	11.5	11.6	10.2	9.8	10.0
10	17.5	17.1	17.3	15.5	15.3	15.4	11.5	11.3	11.4	9.8	9.5	9.7
11	17.7	17.5	17.6	15.5	15.3	15.4	11.3	11.1	11.2	9.5	8.8	9.2
12	17.9	17.7	17.8	15.5	15.4	15.5	11.1	11.0	11.0	8.8	8.5	8.7
13	18.1	17.9	17.9	15.5	14.7	15.3	11.0	10.8	10.9	8.5	8.1	8.3
14	18.1	17.9	18.0	14.7	14.5	14.5	10.8	10.6	10.7	8.1	8.0	8.0
15	18.0	17.0	17.5	14.6	14.5	14.5	10.6	10.4	10.5	8.0	8.0	8.0
16	17.1	16.9	17.0	14.6	14.5	14.5	10.4	10.4	10.4	8.0	8.0	8.0
17	17.1	16.9	17.0	14.6	14.5	14.5	10.4	10.2	10.3	8.1	8.0	8.0
18	17.0	16.8	16.9	14.5	14.3	14.4	10.3	10.2	10.2	8.2	8.0	8.1
19	16.9	16.7	16.8	14.3	14.2	14.2	10.5	10.3	10.4	8.2	8.1	8.1
20	16.8	16.7	16.7	14.4	14.2	14.3	10.4	10.1	10.3	8.2	8.1	8.1
21	16.9	16.7	16.8	14.5	14.4	14.5	10.1	9.8	9.9	8.2	8.2	8.2
22	16.9	16.7	16.8	14.5	14.5	14.5	9.8	9.7	9.7	8.2	8.1	8.2
23	16.8	16.5	16.7	14.5	14.4	14.4	9.7	9.6	9.7	8.1	7.9	8.0
24	16.8	16.6	16.6	14.4	14.3	14.4	9.6	9.6	9.6	7.9	7.7	7.8
25	16.7	16.5	16.6	14.3	14.0	14.1	9.6	9.4	9.5	7.7	7.6	7.7
26	16.9	16.7	16.8	14.0	13.6	13.8	9.5	9.3	9.4	7.6	7.4	7.5
27	16.8	16.5	16.7	13.6	13.2	13.4	9.3	9.2	9.3	7.6	7.4	7.5
28	16.5	16.2	16.3	13.2	12.9	13.1	9.2	9.0	9.0	7.6	7.6	7.6
29	16.3	16.1	16.2	12.9	12.3	12.6	9.0	8.9	9.0	7.7	7.6	7.7
30	16.2	16.0	16.1	12.6	12.3	12.5	8.9	8.8	8.8	7.7	7.6	7.7
31	16.3	16.1	16.1	---	---	---	9.0	8.8	8.9	7.6	7.4	7.5
MONTH	18.7	16.0	17.0	16.6	12.3	14.9	12.6	8.8	10.6	10.7	7.4	8.6

TEMPERATURE, WATER, 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	7.4	7.2	7.3	8.7	8.5	8.6	12.7	12.2	12.5	13.4	13.4	13.4
2	7.2	7.1	7.2	8.8	8.7	8.7	12.3	12.2	12.2	13.4	13.4	13.4
3	7.1	6.9	7.0	9.0	8.8	8.9	12.3	12.0	12.2	13.5	13.3	13.4
4	7.0	7.0	7.0	9.3	9.0	9.2	12.2	12.0	12.1	13.5	13.2	13.4
5	7.2	7.0	7.1	9.6	9.3	9.4	12.1	11.7	11.9	13.4	13.2	13.3
6	7.3	7.1	7.2	10.1	9.6	9.9	11.9	11.7	11.8	13.5	13.3	13.4
7	7.4	7.3	7.4	10.4	10.1	10.3	12.0	11.8	11.9	13.5	13.3	13.4
8	7.6	7.4	7.5	10.5	10.4	10.4	12.3	12.0	12.1	13.6	13.4	13.5
9	8.2	7.6	8.0	10.5	10.4	10.5	12.4	12.3	12.3	13.8	13.5	13.7
10	8.2	7.9	8.1	---	---	---	12.5	12.4	12.4	14.1	13.8	13.9
11	7.9	7.6	7.7	---	---	---	12.7	12.4	12.6	14.3	14.1	14.2
12	7.6	7.4	7.4	---	---	9.5	12.8	12.5	12.7	14.5	14.3	14.4
13	7.4	7.2	7.3	9.4	9.2	9.3	13.1	12.0	12.4	14.9	14.5	14.7
14	7.3	7.2	7.2	9.2	9.2	9.2	12.0	11.5	11.7	15.3	14.9	15.1
15	7.3	7.2	7.3	9.3	9.2	9.3	11.7	11.6	11.6	16.3	15.3	15.8
16	7.2	7.2	7.2	9.5	9.3	9.4	11.6	11.6	11.6	16.4	16.1	16.3
17	7.4	7.2	7.3	9.7	9.5	9.6	11.8	11.6	11.7	16.1	15.7	15.9
18	7.5	7.4	7.4	9.9	9.7	9.8	12.0	11.8	11.9	15.7	15.5	15.6
19	7.4	7.3	7.4	10.1	9.9	10.0	12.3	12.0	12.1	15.5	15.4	15.4
20	7.5	7.4	7.4	10.4	10.1	10.3	12.5	12.3	12.4	15.4	15.4	15.4
21	7.7	7.5	7.6	10.7	10.4	10.6	12.8	12.5	12.7	15.7	15.4	15.5
22	7.8	7.7	7.7	10.9	10.7	10.8	13.6	12.8	13.2	15.7	15.5	15.6
23	8.0	7.8	7.9	10.9	10.8	10.9	13.5	13.3	13.4	16.1	15.7	15.9
24	8.1	8.0	8.0	10.8	10.6	10.8	13.5	13.4	13.4	16.5	16.1	16.3
25	8.3	8.1	8.2	10.8	10.7	10.7	13.4	13.4	13.4	16.9	16.5	16.7
26	8.4	8.3	8.3	11.0	10.8	10.9	13.5	13.4	13.4	17.7	16.9	17.3
27	8.4	8.4	8.4	11.3	11.0	11.2	13.5	13.5	13.5	18.4	17.7	18.2
28	8.5	8.4	8.5	11.8	11.3	11.5	13.5	13.4	13.5	18.4	17.9	18.2
29	8.5	8.5	8.5	12.1	11.8	12.0	13.5	13.4	13.4	17.9	17.5	17.7
30	---	---	---	12.4	12.1	12.2	13.4	13.4	13.4	17.6	17.1	17.4
31	---	---	---	12.7	12.2	12.4	---	---	---	17.2	17.1	17.1
MONTH	8.5	6.9	7.6	---	---	---	13.6	11.5	12.5	18.4	13.2	15.3
	JUNE			JULY			AUGUST			SEPTEMBER		
1	17.2	17.0	17.1	19.5	19.3	19.4	22.2	22.1	22.1	22.2	22.1	22.2
2	17.0	16.9	16.9	19.7	19.5	19.6	22.1	21.7	21.9	22.2	22.0	22.1
3	16.9	16.7	16.8	20.1	19.7	19.9	21.7	21.4	21.5	22.3	22.1	22.2
4	16.7	16.6	16.6	20.4	20.1	20.2	21.4	21.2	21.3	22.5	22.2	22.3
5	16.6	16.6	16.6	20.6	20.4	20.5	21.3	21.2	21.3	22.6	22.3	22.4
6	16.6	16.6	16.6	20.5	20.2	20.4	21.5	21.3	21.4	22.5	22.3	22.4
7	16.7	16.6	16.6	20.2	20.0	20.1	21.5	21.4	21.5	22.5	22.4	22.4
8	16.9	16.7	16.8	20.1	20.0	20.0	21.4	21.2	21.3	22.4	22.2	22.3
9	17.0	16.9	16.9	20.3	20.0	20.1	21.2	21.1	21.1	22.2	22.0	22.1
10	17.2	17.0	17.1	20.7	20.3	20.6	21.1	21.0	21.0	22.1	21.9	22.0
11	17.4	17.2	17.3	21.1	20.7	20.9	21.1	21.0	21.0	22.1	21.8	21.9
12	17.5	17.4	17.5	21.5	21.1	21.3	21.0	20.9	21.0	22.1	22.0	22.1
13	17.6	17.5	17.6	21.8	21.5	21.6	21.0	20.8	20.9	22.1	21.9	22.0
14	17.7	17.6	17.6	22.0	21.8	21.9	20.8	20.6	20.7	22.1	22.0	22.0
15	17.7	17.6	17.7	22.0	21.9	22.0	20.6	20.5	20.5	22.2	22.0	22.1
16	17.7	17.6	17.6	22.1	21.9	22.0	20.5	20.3	20.4	22.2	22.0	22.1
17	17.7	17.6	17.6	22.3	22.0	22.1	20.4	20.2	20.3	22.2	21.8	21.9
18	18.0	17.6	17.7	22.3	21.9	22.2	20.5	20.3	20.3	21.8	21.4	21.7
19	18.1	18.0	18.1	21.9	21.5	21.6	21.1	20.5	20.7	21.4	21.1	21.3
20	18.2	18.0	18.1	21.8	21.6	21.7	21.3	21.1	21.2	21.1	20.7	20.9
21	18.2	18.2	18.2	22.4	21.8	22.1	21.6	21.2	21.3	20.7	20.4	20.5
22	18.2	18.1	18.1	22.9	22.4	22.6	21.3	21.1	21.2	20.4	20.2	20.3
23	18.1	18.1	18.1	22.9	22.5	22.7	21.2	21.0	21.1	20.2	20.0	20.1
24	18.4	18.1	18.2	22.5	22.3	22.4	21.2	21.0	21.0	20.1	20.0	20.0
25	18.5	18.4	18.5	22.3	21.9	22.1	21.6	21.2	21.3	20.2	20.1	20.1
26	18.6	18.5	18.6	22.0	21.7	21.8	21.9	21.6	21.8	20.3	20.2	20.2
27	18.6	18.5	18.6	21.7	21.4	21.5	22.0	21.9	22.0	20.2	20.0	20.1
28	18.7	18.5	18.6	21.5	21.4	21.4	22.3	22.0	22.1	20.2	20.1	20.1
29	19.0	18.7	18.9	21.6	21.4	21.5	22.4	22.3	22.4	20.2	20.0	20.1
30	19.3	19.0	19.2	21.9	21.6	21.8	22.4	22.3	22.3	20.0	19.6	19.8
31	---	---	---	22.2	21.8	22.0	22.3	22.1	22.2	---	---	---
MONTH	19.3	16.6	17.7	22.9	19.3	21.3	22.4	20.2	21.3	22.6	19.6	21.4
YEAR	---	---	---									

03313000 BARREN RIVER NEAR FINNEY, KY

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

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

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--January 1990 to September 1994. October 2003 to September 2004.

INSTRUMENTATION.--Temperature recorder with telemetry since 1990.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum 25.9°C, Jul. 24; minimum 2.5°C, Feb. 1.

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

REMARKS.--Water-temperature records rated excellent except the following periods: Dec. 20-Mar. 12 rated good.

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	22.2	21.9	22.1	18.1	17.8	18.0	11.7	11.3	11.5	4.9	4.7	4.8
2	21.9	21.6	21.8	18.0	17.8	17.9	11.3	10.9	11.2	5.6	4.9	5.3
3	21.6	21.4	21.5	18.0	17.7	17.9	10.9	10.5	10.7	6.5	5.6	6.0
4	21.5	21.1	21.3	18.1	17.7	17.9	10.6	10.4	10.5	7.2	6.5	6.9
5	21.2	21.1	21.2	18.0	17.6	17.8	10.4	9.8	10.1	7.2	6.4	6.7
6	21.2	21.0	21.1	17.6	17.4	17.5	9.8	9.4	9.6	6.5	6.2	6.3
7	21.1	20.9	21.0	17.4	17.1	17.3	9.4	9.2	9.2	6.4	5.9	6.1
8	21.0	20.8	20.9	17.1	16.6	16.9	9.2	8.9	9.0	6.2	5.8	6.0
9	20.8	20.5	20.6	16.6	16.2	16.4	8.9	8.6	8.7	6.1	5.8	5.9
10	20.7	20.2	20.4	16.3	16.1	16.2	8.7	8.0	8.4	5.8	5.5	5.7
11	20.2	19.9	20.1	16.2	16.1	16.2	8.0	7.7	7.9	5.6	5.3	5.5
12	20.0	19.6	19.8	16.2	15.8	16.1	7.7	7.5	7.6	5.8	5.6	5.7
13	19.7	19.5	19.6	15.8	15.2	15.5	7.4	7.1	7.2	5.7	5.5	5.6
14	19.8	19.2	19.4	15.2	15.0	15.1	7.1	6.7	6.9	5.7	5.5	5.6
15	19.9	19.5	19.7	15.1	14.9	15.0	6.8	6.6	6.7	5.7	5.5	5.6
16	20.0	19.8	19.8	15.0	14.9	14.9	6.7	6.3	6.5	5.7	5.5	5.6
17	19.8	19.7	19.7	15.2	14.8	14.9	6.3	6.1	6.2	5.9	5.6	5.7
18	19.8	19.6	19.7	15.2	15.0	15.1	6.1	5.8	6.1	5.8	5.5	5.6
19	19.7	19.5	19.6	15.0	14.4	14.6	5.8	5.3	5.6	5.5	4.9	5.1
20	19.6	19.5	19.5	14.8	14.4	14.6	5.3	5.0	5.2	4.9	4.7	4.8
21	19.5	19.2	19.4	14.7	14.5	14.5	5.1	4.9	5.0	4.7	4.3	4.5
22	19.2	19.0	19.1	14.5	14.3	14.4	5.0	4.8	4.8	4.3	3.8	4.1
23	19.0	18.9	19.0	14.5	14.3	14.4	5.2	4.9	5.0	3.8	3.5	3.6
24	19.0	18.8	18.9	14.4	13.5	13.8	5.1	4.8	4.9	3.8	3.6	3.7
25	19.1	19.0	19.0	13.5	13.2	13.3	4.9	4.7	4.8	3.7	3.5	3.6
26	19.1	18.7	18.9	13.2	13.0	13.1	4.8	4.6	4.7	4.1	3.7	3.9
27	18.7	18.4	18.6	13.1	13.0	13.0	4.7	4.5	4.6	4.1	3.6	3.8
28	18.4	18.3	18.3	13.0	12.3	12.7	4.8	4.5	4.7	3.6	3.4	3.5
29	18.3	18.0	18.1	12.3	11.9	12.1	4.9	4.7	4.8	3.7	3.3	3.5
30	18.1	17.9	18.0	11.9	11.7	11.8	4.8	4.7	4.8	3.6	3.1	3.3
31	18.1	18.0	18.0	---	---	---	4.8	4.6	4.7	3.1	2.6	2.8
MONTH	22.2	17.9	19.8	18.1	11.7	15.3	11.7	4.5	7.0	7.2	2.6	5.0

TEMPERATURE, WATER, 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	3.0	2.5	2.7	6.3	5.8	6.0	11.9	10.3	10.9	13.8	13.0	13.4
2	3.3	2.9	3.1	6.3	6.1	6.2	12.0	10.3	11.0	13.7	13.1	13.4
3	3.3	3.2	3.3	7.0	6.0	6.3	12.6	10.3	11.1	14.0	13.3	13.6
4	3.2	3.0	3.1	8.3	7.0	7.6	12.0	10.4	10.9	13.9	13.4	13.7
5	3.6	3.1	3.2	8.3	7.7	8.1	12.8	10.5	11.4	14.3	13.5	14.0
6	3.9	3.6	3.8	7.8	7.2	7.5	13.7	11.4	12.3	14.3	13.8	14.1
7	4.1	3.6	3.8	8.0	7.4	7.8	13.2	11.6	12.2	14.6	13.8	14.1
8	3.9	3.5	3.7	8.7	7.6	8.1	13.1	10.9	12.1	14.4	13.8	14.2
9	3.6	3.2	3.4	9.0	8.5	8.8	13.6	10.6	11.9	14.4	14.0	14.2
10	3.6	3.2	3.4	9.3	8.6	9.0	13.8	12.0	12.8	14.6	14.1	14.4
11	3.6	3.4	3.6	9.4	9.0	9.2	13.9	12.4	13.0	14.6	14.1	14.4
12	3.7	3.6	3.7	9.0	8.8	8.9	13.6	12.5	13.0	14.7	14.3	14.5
13	3.8	3.6	3.7	9.3	8.9	9.1	12.6	11.3	11.8	15.0	14.4	14.7
14	3.9	3.7	3.8	9.6	9.2	9.4	13.5	11.3	12.2	15.0	14.4	14.7
15	4.0	3.7	3.9	9.9	9.3	9.6	13.5	11.5	12.3	15.2	14.6	14.8
16	4.1	3.7	3.8	9.8	9.1	9.4	14.0	11.8	12.7	14.8	13.3	14.0
17	4.1	3.9	4.0	9.5	9.1	9.3	13.8	11.7	12.6	14.6	13.2	14.0
18	4.2	3.9	4.0	10.0	9.4	9.7	13.6	11.7	12.5	15.4	14.3	14.9
19	4.5	3.9	4.2	10.7	9.5	9.9	12.8	11.6	12.0	15.5	15.2	15.3
20	4.8	4.5	4.6	11.7	9.9	11.0	13.8	11.5	12.4	15.7	15.3	15.5
21	4.7	4.4	4.4	10.5	9.1	9.8	12.6	11.4	11.9	15.7	15.5	15.6
22	4.7	4.4	4.5	11.0	9.1	9.9	13.9	11.7	12.4	15.8	15.5	15.6
23	5.1	4.6	4.8	11.4	9.2	10.1	13.0	11.5	12.0	15.9	15.4	15.7
24	5.2	4.6	5.0	11.6	10.4	10.7	12.0	11.5	11.7	16.0	14.9	15.3
25	5.1	4.5	4.8	12.0	10.4	11.0	11.9	11.5	11.7	16.4	14.4	15.6
26	5.1	4.9	5.0	12.7	11.0	11.6	13.1	11.4	12.1	21.0	16.0	18.5
27	5.4	5.1	5.2	12.4	10.9	11.6	13.1	12.0	12.4	21.2	19.2	20.2
28	5.7	5.1	5.3	13.2	10.9	12.0	13.0	12.3	12.6	20.5	19.1	20.0
29	5.9	5.4	5.6	12.4	10.8	11.1	13.4	12.3	12.8	20.8	14.9	17.3
30	---	---	---	12.5	10.5	11.5	13.6	12.7	13.3	15.2	14.0	14.8
31	---	---	---	11.8	10.3	10.7	---	---	---	14.9	14.2	14.5
MONTH	5.9	2.5	4.0	13.2	5.8	9.4	14.0	10.3	12.1	21.2	13.0	15.1
	JUNE			JULY			AUGUST			SEPTEMBER		
1	16.0	14.2	15.1	23.9	23.2	23.6	24.7	20.3	22.3	24.6	23.9	24.3
2	16.9	15.8	16.4	24.2	23.4	23.8	20.4	19.3	19.9	24.6	24.3	24.5
3	17.1	16.8	16.9	24.9	23.2	24.0	19.9	19.2	19.7	24.5	24.0	24.3
4	17.4	16.9	17.1	24.4	23.4	23.8	20.2	19.8	20.0	24.1	20.5	22.1
5	17.5	17.1	17.3	25.3	22.6	23.8	20.5	19.9	20.2	21.6	20.8	21.2
6	17.6	17.0	17.3	24.9	23.7	24.2	20.7	20.2	20.5	21.7	21.3	21.5
7	17.9	17.4	17.6	24.1	23.7	23.9	21.0	20.2	20.6	21.7	20.8	21.3
8	18.2	17.6	17.9	24.1	20.9	22.1	21.0	20.5	20.8	23.7	20.8	22.1
9	18.7	17.8	18.1	21.2	20.4	21.0	21.1	20.8	21.0	24.0	23.7	23.8
10	18.6	17.7	17.9	21.4	20.7	21.0	21.1	19.7	20.5	24.2	23.4	23.9
11	18.0	17.1	17.6	21.4	20.8	21.1	20.9	20.1	20.6	24.3	23.8	24.0
12	17.5	16.6	17.0	21.5	21.0	21.2	20.7	19.2	19.9	24.2	23.8	24.0
13	17.5	16.7	17.1	21.4	20.6	21.2	23.6	19.1	21.8	24.5	23.8	24.1
14	17.5	16.9	17.2	22.5	20.7	21.3	23.5	22.1	23.1	24.4	23.9	24.1
15	17.3	16.6	16.9	21.7	21.1	21.4	24.1	22.1	22.9	24.5	24.0	24.2
16	17.0	16.6	16.8	21.7	21.4	21.6	24.3	22.2	23.1	24.5	24.1	24.3
17	17.1	16.7	16.9	21.9	21.5	21.7	24.4	22.4	23.2	24.4	23.8	23.9
18	17.2	16.9	17.0	21.9	21.5	21.7	24.7	22.6	23.5	23.8	21.2	22.7
19	17.2	16.8	17.0	24.9	21.4	23.4	24.3	22.8	23.4	22.6	22.1	22.4
20	17.4	16.7	17.0	25.2	24.6	24.9	24.1	23.0	23.5	23.3	21.1	22.7
21	17.4	16.9	17.1	25.2	24.7	25.0	23.5	20.2	22.0	23.1	21.4	22.6
22	24.4	17.1	21.2	25.1	23.8	24.7	21.4	20.8	21.2	22.5	22.3	22.4
23	24.4	23.3	23.9	25.8	24.1	25.1	21.6	21.2	21.4	22.3	22.1	22.2
24	24.3	23.5	23.9	25.9	25.1	25.5	22.4	20.9	21.8	22.1	21.9	22.0
25	24.1	23.5	23.9	25.5	24.9	25.2	24.2	22.0	23.0	22.0	21.6	21.8
26	24.2	23.4	23.8	25.1	24.4	24.8	24.4	23.2	23.7	21.8	21.3	21.6
27	24.3	23.6	23.9	24.7	24.1	24.4	24.3	23.2	23.7	21.6	21.5	21.5
28	24.0	23.3	23.6	25.2	24.2	24.7	24.1	23.3	23.7	21.5	21.1	21.4
29	24.0	23.2	23.6	25.1	24.5	24.8	24.3	23.3	23.7	21.4	21.0	21.2
30	24.2	23.4	23.8	25.5	24.5	24.9	24.0	23.7	23.9	21.2	20.5	20.8
31	---	---	---	25.1	24.2	24.6	24.4	23.8	24.1	---	---	---
MONTH	24.4	14.2	19.0	25.9	20.4	23.4	24.7	19.1	22.0	24.6	20.5	22.8
YEAR	25.9	2.5	14.6									

03313700 WEST FORK DRAKES CREEK NEAR FRANKLIN, KY

LOCATION.--Lat 36°43'24", long 86°33'08", Simpson County, Hydrologic Unit 05110002, near left bank at upstream side of city of Franklin pumping plant intake, 20 ft upstream from dam, 0.8 mi downstream from bridge on State Highways 73 and 100, 1.5 mi east of Franklin, 3.3 mi downstream from Sharps Branch, and at mile 46.7.

DRAINAGE AREA.--110 mi², of which about 19 mi² does not contribute directly to surface runoff.

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

GAGE.--Water-stage recorder with telemetry and broad-crested weir. Datum of gage is 581.54 ft above NGVD of 1929. Prior to Oct. 1, 1981, at site 0.8 mi upstream at datum 8.05 ft lower.

REMARKS.--Records good except for those estimated, which are fair. Subsequent to Apr. 24, 1976, records of daily discharge less than about 300 ft³/s does not include approximately 3 ft³/s which is diverted by city of Franklin for municipal supply.

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	67	31	172	331	146	69	111	155	743	60	e200	27
2	59	31	149	633	147	550	100	375	364	64	e170	26
3	53	28	129	516	893	262	92	343	259	57	141	26
4	50	27	125	350	527	197	86	265	257	52	101	26
5	46	38	125	358	e1,200	262	78	210	193	50	96	32
6	42	42	115	321	e1,690	1,390	73	173	152	49	95	34
7	41	46	103	251	981	641	70	146	129	65	77	31
8	37	43	96	218	544	359	69	125	109	65	65	26
9	32	40	93	200	379	271	65	111	109	50	55	19
10	32	36	190	166	317	210	59	105	102	40	52	17
11	31	34	305	141	255	174	56	96	88	37	60	15
12	29	37	225	131	221	149	139	89	e93	38	54	74
13	28	45	178	119	190	131	982	e110	117	48	47	108
14	31	54	e360	108	169	127	882	e310	90	58	42	53
15	30	54	e340	102	156	116	414	e1,200	76	50	38	37
16	29	70	e380	92	143	115	283	e1,500	86	37	34	40
17	27	75	e400	93	136	107	212	e880	82	30	32	58
18	25	622	e360	233	125	142	169	e630	113	27	30	60
19	25	1,090	294	336	116	171	142	e460	122	25	27	44
20	23	484	229	230	112	166	123	e360	107	21	71	34
21	21	298	187	185	104	448	126	e300	88	e19	230	29
22	21	208	168	160	93	268	e1,900	e250	77	e20	113	26
23	19	170	184	138	86	203	e2,000	e210	99	e28	73	23
24	19	318	e450	127	81	173	1,260	e180	99	e22	57	21
25	18	311	e340	e400	77	155	826	e150	82	e18	55	20
26	29	225	243	837	73	137	472	e175	75	e17	48	17
27	65	186	205	431	74	125	337	750	63	e18	50	15
28	53	221	180	297	67	112	254	388	56	e16	39	14
29	46	255	187	235	62	111	203	287	53	e16	33	15
30	39	211	762	205	---	142	174	198	54	e37	31	21
31	35	---	446	169	---	125	---	1,630	---	e95	30	---
TOTAL	1,102	5,330	7,720	8,113	9,164	7,608	11,757	12,161	4,137	1,229	2,246	988
MEAN	35.5	178	249	262	316	245	392	392	138	39.6	72.5	32.9
MAX	67	1,090	762	837	1,690	1,390	2,000	1,630	743	95	230	108
MIN	18	27	93	92	62	69	56	89	53	16	27	14
CFSM	0.39	1.95	2.74	2.88	3.47	2.70	4.31	4.31	1.52	0.44	0.80	0.36
IN.	0.45	2.18	3.16	3.32	3.75	3.11	4.81	4.97	1.69	0.50	0.92	0.40

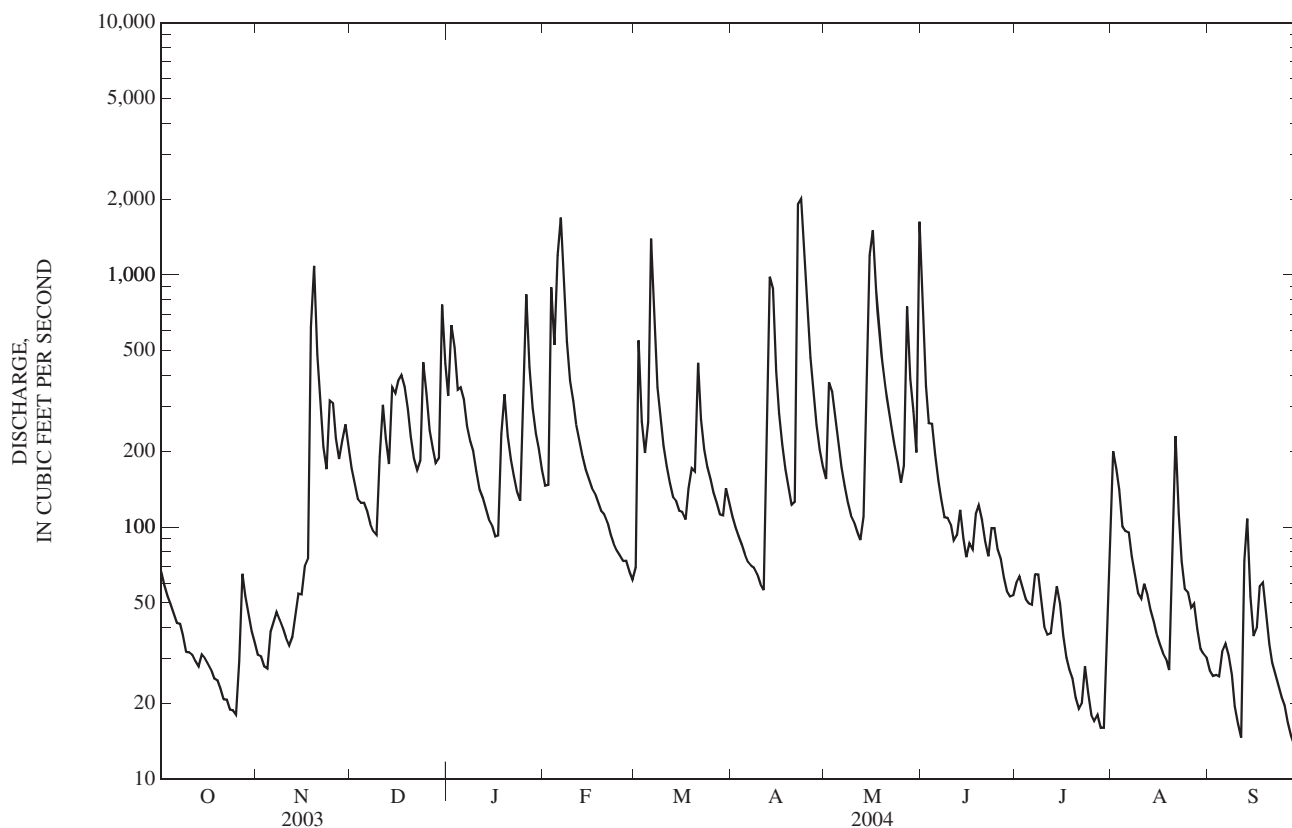
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2004, BY WATER YEAR (WY)

	MEAN	45.4	130	280	287	362	370	251	222	158	64.2	35.8	60.7
MAX	219	474	971	867	1,356	1,412	568	982	795	251	142	677	
(WY)	(1976)	(1980)	(1979)	(1974)	(1989)	(1975)	(1979)	(1983)	(1998)	(1989)	(1971)	(1979)	
MIN	1.87	6.95	11.8	10.4	138	113	38.3	22.8	18.8	5.47	2.80	2.01	
(WY)	(1988)	(2000)	(1981)	(1981)	(1980)	(1998)	(1986)	(1988)	(1985)	(1985)	(1986)	(2000)	

03313700 WEST FORK DRAKES CREEK NEAR FRANKLIN, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1968 - 2004	
ANNUAL TOTAL	80,147		71,555		188	
ANNUAL MEAN	220		196		351	
HIGHEST ANNUAL MEAN					63.5	
LOWEST ANNUAL MEAN					12,800	
HIGHEST DAILY MEAN	3,140	Feb 16	2,000	Apr 23	12,800	Mar 12, 1975
LOWEST DAILY MEAN	18	Aug 30	14	Sep 28	0.00	Sep 19, 1985
ANNUAL SEVEN-DAY MINIMUM	21	Oct 19	18	Sep 24	0.00	Aug 13, 1988
MAXIMUM PEAK FLOW			2,460	Apr 22	27,300	Mar 12, 1975
MAXIMUM PEAK STAGE			9.37	Apr 22	23.20	Mar 12, 1975
ANNUAL RUNOFF (CFSM)	2.41		2.15		2.07	
ANNUAL RUNOFF (INCHES)	32.76		29.25		28.09	
10 PERCENT EXCEEDS	464		404		424	
50 PERCENT EXCEEDS	112		108		72	
90 PERCENT EXCEEDS	32		27		8.3	

e Estimated



03314500 BARREN RIVER AT BOWLING GREEN, KY

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

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

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

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

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

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

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 8, 1913 reached a stage of 52.2 ft, from floodmarks.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,820	2,510	4,230	5,120	3,410	4,200	766	4,330	5,860	e850	5,430	414
2	3,740	2,480	3,990	5,430	2,780	4,810	756	4,840	3,940	e940	3,100	403
3	3,660	2,470	4,330	6,910	4,450	5,260	747	5,550	4,500	e900	3,130	392
4	2,950	2,470	4,660	5,890	5,430	5,020	737	4,960	4,420	e880	2,980	391
5	2,050	2,530	4,720	5,090	6,510	4,960	730	4,600	4,260	e860	2,920	1,360
6	1,850	2,640	4,680	4,880	16,100	8,860	723	4,370	4,100	1,340	2,840	2,040
7	1,810	2,580	4,620	3,080	12,300	8,360	718	4,180	3,970	1,230	2,780	2,100
8	1,780	2,520	4,550	2,210	4,950	5,090	714	4,040	3,860	1,090	2,710	1,430
9	1,750	2,490	4,480	1,980	3,530	5,340	709	3,920	3,780	1,340	2,670	721
10	1,320	2,460	4,490	1,730	5,370	5,320	706	3,820	3,740	1,360	2,580	409
11	1,190	2,440	4,440	2,570	5,640	5,030	703	3,880	2,990	1,480	1,860	366
12	1,170	2,450	4,130	2,810	5,340	4,830	699	3,830	2,500	1,470	2,050	375
13	945	2,500	3,840	4,350	5,110	4,670	2,670	3,790	2,540	1,450	e1,000	375
14	702	2,470	4,240	4,560	4,920	4,560	5,620	3,750	2,080	1,560	e750	465
15	598	2,480	5,140	4,510	4,790	4,460	3,520	5,700	1,730	1,610	e630	428
16	1,420	2,570	4,650	4,430	4,660	3,930	2,310	9,970	1,330	1,480	e610	534
17	2,440	2,650	4,710	4,360	4,550	3,210	1,680	4,260	1,170	1,390	e590	685
18	2,600	2,880	4,680	4,160	4,470	2,000	1,270	3,600	1,120	1,330	e580	1,100
19	2,590	7,250	4,850	5,210	4,690	1,270	1,020	4,260	e1,050	1,310	e565	2,170
20	2,580	4,960	4,650	4,880	4,710	1,030	884	4,220	e1,000	e1,050	e540	3,180
21	2,570	4,150	4,400	4,950	4,650	1,960	834	4,230	e900	e940	e900	1,110
22	2,560	4,320	3,560	4,810	4,570	2,100	3,530	4,110	e800	e890	2,660	2,520
23	2,540	4,080	3,350	4,610	4,510	1,470	14,200	3,990	e700	e835	2,580	3,380
24	2,530	4,030	2,690	4,010	4,460	1,160	12,900	3,810	1,140	e810	2,470	3,390
25	2,520	4,510	2,710	3,410	4,410	989	6,240	2,380	e1,050	e755	1,610	3,370
26	2,580	4,240	2,360	5,420	4,360	867	4,070	e1,580	e1,000	e745	e850	3,360
27	2,610	4,080	2,130	5,160	4,300	793	4,860	e1,800	e950	e735	e680	3,340
28	2,640	4,230	3,230	4,820	4,260	773	4,760	e2,600	e930	e725	e590	3,320
29	2,600	4,730	4,180	4,520	4,210	765	4,440	2,530	e890	e710	e540	3,300
30	2,560	4,510	4,730	4,340	---	775	4,420	2,310	e860	e700	e463	2,390
31	2,530	---	5,130	4,120	---	826	---	4,160	---	e1,800	e425	---
TOTAL	69,205	100,680	128,550	134,330	153,440	104,688	87,936	125,370	69,160	34,565	54,083	48,818
MEAN	2,232	3,356	4,147	4,333	5,291	3,377	2,931	4,044	2,305	1,115	1,745	1,627
MAX	3,820	7,250	5,140	6,910	16,100	8,860	14,200	9,970	5,860	1,800	5,430	3,390
MIN	598	2,440	2,130	1,730	2,780	765	699	1,580	700	700	425	366

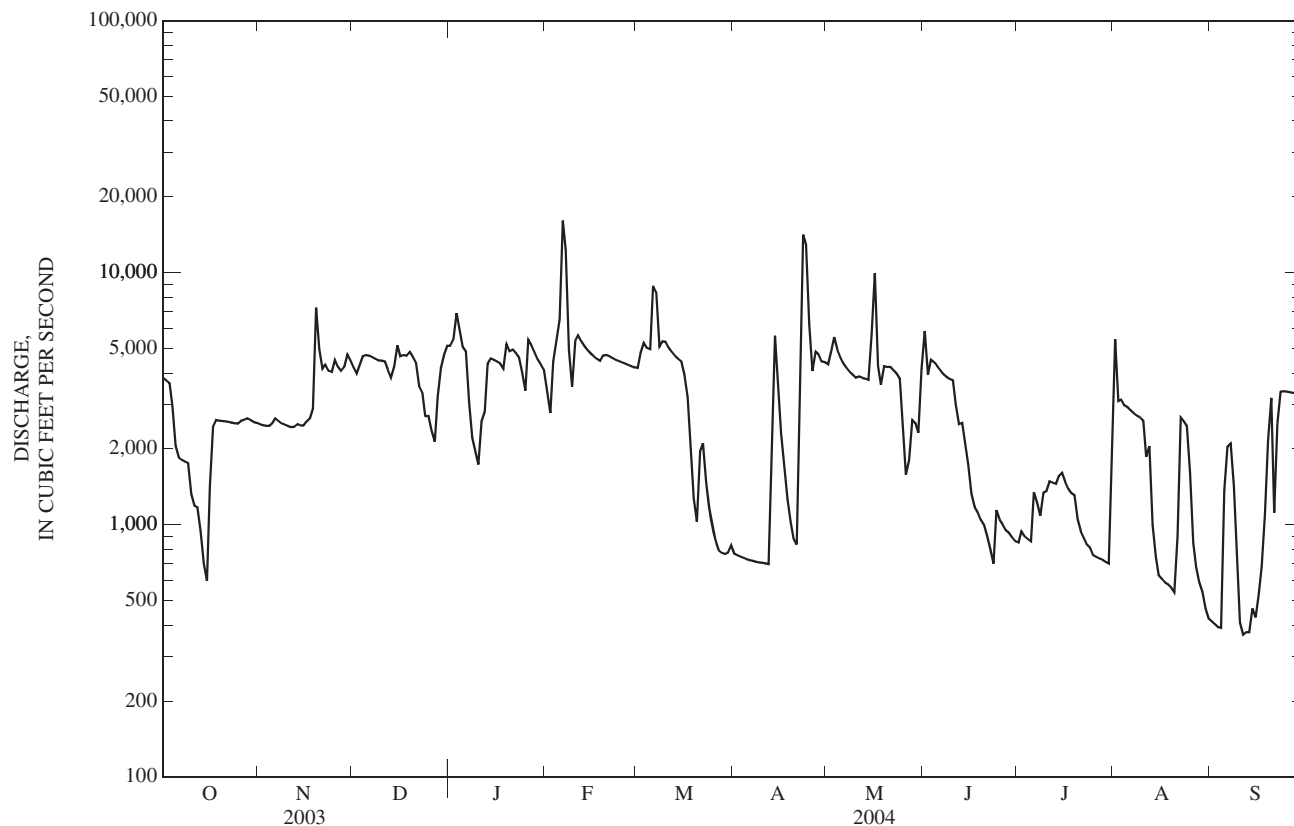
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2004, BY WATER YEAR (WY)

MEAN	1,862	3,146	3,945	4,300	4,835	4,075	3,042	2,844	2,130	1,520	886	1,242
MAX	4,027	6,097	9,210	9,141	9,830	10,450	8,368	9,408	5,825	5,059	3,468	5,358
(WY)	(1975)	(1980)	(1979)	(1979)	(1989)	(1975)	(1979)	(1983)	(1981)	(1989)	(1971)	(1979)
MIN	381	286	573	228	1,624	1,128	379	247	102	118	110	251
(WY)	(1977)	(1977)	(1981)	(1981)	(1992)	(1981)	(1986)	(1988)	(1988)	(1988)	(1991)	(1993)

03314500 BARREN RIVER AT BOWLING GREEN, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1965 - 2004	
ANNUAL TOTAL	1,192,453		1,110,825		2,813	
ANNUAL MEAN	3,267		3,035		1,292	
HIGHEST ANNUAL MEAN					5,001	
LOWEST ANNUAL MEAN					1,292	
HIGHEST DAILY MEAN	21,100	Feb 17	16,100	Feb 6	57,500	Mar 13, 1975
LOWEST DAILY MEAN	518	Aug 28	366	Sep 11	75	Jul 9, 1988
ANNUAL SEVEN-DAY MINIMUM	621	Aug 25	422	Sep 10	76	Jul 6, 1988
MAXIMUM PEAK FLOW			18,300	Feb 6	85,000	Feb 28, 1962
MAXIMUM PEAK STAGE			25.47	Feb 6	49.55	Feb 28, 1962
INSTANTANEOUS LOW FLOW			355	Sep 11	44	Sep 19, 1954
10 PERCENT EXCEEDS	5,140		4,980		5,930	
50 PERCENT EXCEEDS	2,910		2,670		2,130	
90 PERCENT EXCEEDS	887		724		303	

e Estimated



03316500 GREEN RIVER AT PARADISE, KY

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

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

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

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

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,180	5,070	18,600	19,100	e12,300	6,750	5,220	18,300	30,700	3,660	3,550	1,940
2	6,890	5,020	15,800	22,900	e13,000	6,830	5,170	24,100	30,200	4,050	8,030	1,780
3	6,090	4,980	13,300	31,000	e14,500	7,460	4,680	27,200	28,900	3,780	9,050	1,830
4	5,600	4,860	13,100	33,500	e17,100	9,450	4,240	25,000	27,000	3,600	7,800	2,080
5	4,900	4,820	14,700	35,400	e21,000	10,500	3,780	21,500	24,600	3,880	7,540	2,020
6	4,100	4,940	15,100	35,300	e29,000	14,400	3,420	18,900	22,800	4,700	7,020	2,180
7	3,570	5,110	14,100	30,300	36,300	22,800	3,170	17,200	20,200	5,910	6,370	2,860
8	3,360	5,230	13,100	21,900	38,600	28,300	3,050	14,400	18,100	5,970	7,070	3,110
9	3,310	5,120	12,100	16,800	39,300	24,400	2,880	11,200	17,400	5,250	6,500	2,820
10	3,230	5,000	11,300	13,400	32,600	19,600	2,740	9,110	17,700	4,800	5,910	2,270
11	3,010	4,880	12,100	11,300	25,500	e16,400	2,710	8,360	17,700	4,680	5,500	1,800
12	2,780	4,970	13,700	11,900	e22,200	e14,000	2,750	8,050	17,000	4,620	4,750	1,560
13	2,640	6,230	15,500	13,300	e19,500	e12,100	4,600	7,570	19,600	4,610	4,050	1,490
14	2,560	7,270	16,800	16,300	e17,500	e10,200	15,300	7,290	18,700	4,750	3,590	1,590
15	2,290	7,860	18,200	19,400	e16,200	e8,900	23,400	11,200	17,000	4,660	3,270	1,740
16	2,100	7,740	19,600	21,300	e14,900	e7,900	21,100	18,800	16,100	3,990	2,710	1,720
17	2,860	7,360	19,800	21,200	e13,800	e6,900	16,300	22,700	14,100	3,360	2,200	1,660
18	4,130	7,090	19,500	21,100	e12,900	e6,400	13,700	20,000	11,100	3,070	1,890	e1,900
19	4,780	11,400	19,600	21,300	12,100	e5,800	11,100	17,300	8,650	3,350	1,770	e4,600
20	4,950	17,500	17,800	21,700	11,100	5,380	8,690	14,100	7,980	2,900	1,650	7,560
21	4,950	19,400	16,500	19,500	10,200	5,840	9,010	12,100	7,040	2,250	1,830	6,850
22	4,940	16,700	15,900	16,700	9,260	7,760	10,400	10,800	6,550	1,950	3,340	5,590
23	4,900	14,000	15,000	14,300	8,490	9,080	18,800	9,160	6,070	2,340	4,040	7,120
24	4,880	13,800	17,200	12,800	7,980	7,690	31,700	7,660	5,080	2,390	4,340	8,510
25	4,740	14,500	16,400	11,900	7,600	6,120	34,600	6,860	4,670	2,730	4,060	8,760
26	5,370	13,700	15,300	e12,700	7,230	5,120	33,200	6,740	4,620	3,090	3,400	7,730
27	5,590	13,200	14,100	e14,700	7,000	4,490	27,000	11,400	4,390	2,920	2,760	5,210
28	5,580	15,600	12,500	e15,500	6,910	4,050	22,100	17,100	3,960	2,740	2,450	4,280
29	5,490	16,900	11,800	e14,500	6,840	3,860	19,600	21,200	3,540	2,470	2,300	4,370
30	5,280	18,900	14,800	e13,500	---	4,170	18,400	21,200	3,460	2,140	2,130	4,360
31	5,150	---	18,000	e12,700	---	4,960	---	27,200	---	2,320	2,020	---
TOTAL	138,200	289,150	481,300	597,200	490,910	307,610	382,810	473,700	434,910	112,930	132,890	111,290
MEAN	4,458	9,638	15,530	19,260	16,930	9,923	12,760	15,280	14,500	3,643	4,287	3,710
MAX	8,180	19,400	19,800	35,400	39,300	28,300	34,600	27,200	30,700	5,970	9,050	8,760
MIN	2,100	4,820	11,300	11,300	6,840	3,860	2,710	6,740	3,460	1,950	1,650	1,490

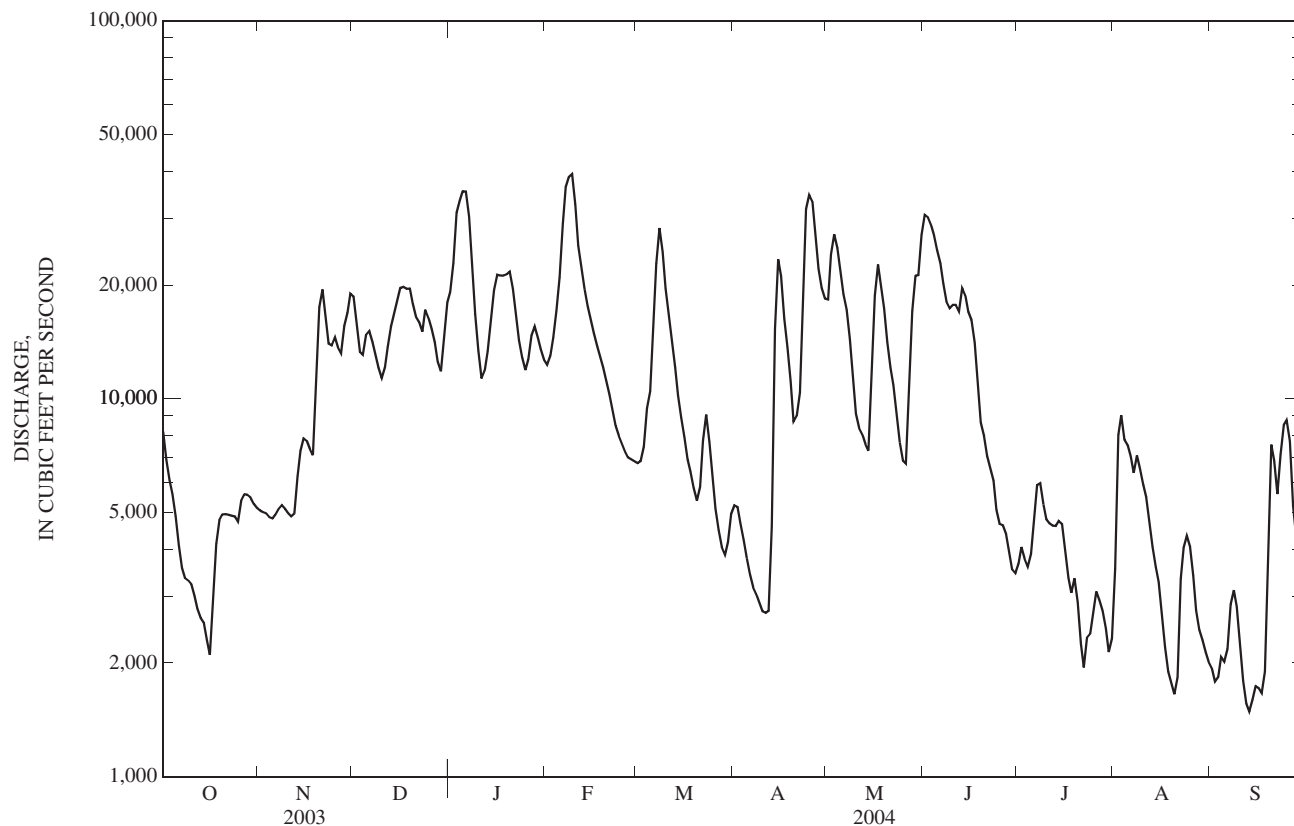
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2004, BY WATER YEAR (WY)

	MEAN	5,073	8,131	13,210	15,480	15,900	16,880	13,270	10,560	7,998	3,806	2,718	3,750
MAX		16,950	19,310	42,250	36,020	26,410	41,520	34,210	25,950	20,190	8,811	8,743	22,540
(WY)		(1980)	(1980)	(1979)	(1974)	(1994)	(1997)	(1979)	(1995)	(1981)	(1973)	(1971)	(1979)
MIN		1,750	2,548	2,103	954	6,083	6,150	4,345	1,881	1,523	1,270	524	512
(WY)		(2001)	(2000)	(1981)	(1981)	(1977)	(1981)	(2001)	(2001)	(1999)	(2000)	(1999)	(1999)

03316500 GREEN RIVER AT PARADISE, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1970 - 2004	
ANNUAL TOTAL	4,096,680		3,952,900		9,745	
ANNUAL MEAN	11,220		10,800		18,460	
HIGHEST ANNUAL MEAN					4,432	
LOWEST ANNUAL MEAN					83,800	
HIGHEST DAILY MEAN	42,700	Feb 21	39,300	Feb 9	83,800	Mar 7, 1997
LOWEST DAILY MEAN	1,590	Aug 22	1,490	Sep 13	228	Oct 4, 2001
ANNUAL SEVEN-DAY MINIMUM	2,010	Aug 17	1,650	Sep 11	320	Sep 8, 1995
MAXIMUM PEAK FLOW			41,400	Feb 9	107,000	Mar 5, 1962
MAXIMUM PEAK STAGE			22.25	Feb 9	40.46	Mar 5, 1962
INSTANTANEOUS LOW FLOW			1,430	Sep 13	228	Oct 4, 2001
10 PERCENT EXCEEDS	21,600		21,400		22,700	
50 PERCENT EXCEEDS	8,290		7,750		6,000	
90 PERCENT EXCEEDS	3,290		2,710		1,350	

e Estimated



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

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

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

WATER-QUALITY RECORDS

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

INSTRUMENTATION.--Water-temperature recorder with telemetry.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum 22.2°C, Oct. 1; minimum 2.5°C, Feb. 8, 9.

REMARKS.--Water-temperature records rated good.

 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	22.2	21.5	21.8	17.6	17.5	17.5	10.8	10.3	10.6	5.5	5.1	5.3
2	21.8	20.7	21.4	17.8	17.5	17.6	10.3	10.0	10.1	6.3	5.5	5.9
3	21.5	20.4	21.0	17.8	17.4	17.6	10.0	9.7	9.8	6.8	6.3	6.6
4	21.4	21.0	21.2	18.3	17.4	17.7	9.7	9.3	9.5	7.6	6.8	7.2
5	21.1	20.8	21.0	17.7	17.4	17.5	9.3	9.0	9.2	7.3	6.8	7.0
6	21.1	20.7	20.9	17.4	17.1	17.3	9.0	8.7	8.8	6.8	6.4	6.6
7	21.0	20.5	20.8	17.1	16.7	17.0	8.7	8.4	8.6	6.4	6.0	6.2
8	20.8	20.0	20.4	16.7	16.3	16.5	8.4	8.3	8.3	6.0	5.9	5.9
9	20.6	20.5	20.5	16.3	15.9	16.1	8.3	8.2	8.3	5.9	5.7	5.8
10	20.5	20.3	20.4	16.0	15.8	15.9	8.3	8.0	8.2	5.7	5.5	5.6
11	20.7	20.0	20.3	15.9	15.7	15.8	8.0	7.6	7.8	5.7	5.4	5.5
12	20.5	19.7	20.1	15.9	15.6	15.8	7.6	7.2	7.4	5.8	5.6	5.7
13	20.4	19.6	19.9	15.6	14.9	15.2	7.2	6.8	7.0	5.9	5.8	5.9
14	19.7	19.2	19.5	14.9	14.6	14.7	6.9	6.5	6.7	6.0	5.7	5.9
15	20.2	19.1	19.6	14.6	14.2	14.4	6.5	6.2	6.4	5.9	5.8	5.9
16	20.0	19.7	19.8	14.2	14.1	14.2	6.3	6.1	6.2	5.9	5.7	5.8
17	19.7	19.5	19.6	14.2	14.0	14.1	6.1	5.9	6.0	6.1	5.9	6.0
18	19.5	19.3	19.4	14.3	14.2	14.2	5.9	5.6	5.8	6.0	5.9	6.0
19	19.4	19.2	19.3	14.2	13.9	14.0	5.6	5.1	5.4	5.9	5.6	5.7
20	19.3	19.1	19.2	14.2	13.7	13.9	5.1	4.9	5.0	5.6	5.3	5.5
21	19.3	19.1	19.2	14.0	13.7	13.8	4.9	4.7	4.8	5.4	5.1	5.3
22	19.1	18.9	19.0	13.9	13.6	13.7	4.9	4.7	4.8	5.1	4.6	4.9
23	19.0	18.8	18.9	13.9	13.6	13.8	5.0	4.8	4.9	4.6	4.3	4.5
24	19.0	18.7	18.9	13.8	13.0	13.4	4.8	4.6	4.7	4.3	4.2	4.2
25	19.0	18.8	18.9	13.0	12.7	12.9	4.6	4.4	4.5	4.2	4.0	4.0
26	18.9	18.5	18.7	12.7	12.4	12.6	4.6	4.3	4.4	4.4	3.9	4.1
27	18.5	18.2	18.3	12.4	12.2	12.3	4.6	4.2	4.4	4.2	3.7	4.0
28	18.2	17.8	18.0	12.2	11.5	11.9	4.6	4.3	4.4	3.7	3.4	3.5
29	17.8	17.6	17.7	11.5	11.0	11.2	4.7	4.6	4.7	3.6	3.5	3.5
30	17.8	17.5	17.6	11.1	10.8	11.0	4.9	4.6	4.8	3.5	3.0	3.2
31	17.9	17.5	17.6	---	---	---	5.1	4.9	5.0	3.2	3.0	3.1
MONTH	22.2	17.5	19.6	18.3	10.8	14.8	10.8	4.2	6.7	7.6	3.0	5.3

TEMPERATURE, WATER, 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	3.4	3.1	3.2	7.3	7.1	7.2	11.9	10.2	11.0	12.9	11.6	12.1
2	3.4	3.3	3.4	9.2	6.9	7.4	12.6	10.1	11.3	11.9	11.4	11.7
3	3.3	3.1	3.2	7.1	6.8	6.9	13.1	10.2	11.7	12.2	11.4	11.8
4	3.1	3.0	3.1	9.2	6.8	7.9	12.8	10.3	11.5	13.7	11.8	12.9
5	3.0	2.8	2.9	9.4	8.6	9.1	12.1	10.2	11.2	14.6	13.7	14.1
6	2.9	2.8	2.9	8.6	8.0	8.2	12.8	10.5	11.4	15.1	14.6	14.8
7	2.9	2.7	2.8	8.7	8.2	8.4	12.4	11.0	11.7	15.4	14.9	15.2
8	2.7	2.5	2.6	9.2	8.3	8.6	14.2	11.5	12.7	15.5	15.2	15.3
9	2.8	2.5	2.6	9.5	9.0	9.2	13.0	10.9	11.9	16.0	14.8	15.3
10	2.9	2.6	2.8	10.1	9.4	9.7	12.3	11.4	11.8	15.6	14.7	15.0
11	3.1	2.8	3.0	10.1	9.8	10.0	12.0	11.1	11.5	15.2	14.5	14.8
12	3.4	3.1	3.3	9.9	9.6	9.7	11.3	11.0	11.0	14.9	13.8	14.4
13	3.5	3.3	3.4	10.4	9.7	9.9	11.2	9.8	10.5	14.3	13.8	14.1
14	3.7	3.4	3.6	10.2	9.6	9.9	12.1	9.9	11.0	14.3	13.7	14.0
15	3.8	3.6	3.7	10.2	9.6	9.9	12.4	11.0	11.6	13.9	13.7	13.8
16	3.9	3.6	3.8	9.8	9.5	9.6	13.2	11.2	11.9	13.9	13.5	13.7
17	4.0	3.7	3.8	11.0	9.5	10.0	12.9	11.3	11.9	15.0	13.5	14.3
18	5.3	4.0	4.6	11.3	9.6	10.3	13.7	11.3	12.1	15.3	14.6	15.0
19	6.4	4.7	5.4	10.8	9.4	9.9	11.8	10.9	11.4	15.4	15.0	15.2
20	6.2	5.5	5.8	10.8	9.6	10.1	12.5	11.0	11.7	15.6	15.1	15.3
21	6.0	5.6	5.8	10.8	9.3	9.8	11.7	10.9	11.3	15.6	15.2	15.4
22	6.7	5.3	5.9	11.0	9.5	10.1	11.8	10.7	11.2	15.8	15.3	15.4
23	6.4	5.5	6.0	11.1	9.5	10.3	11.4	10.9	11.2	15.8	15.4	15.5
24	7.1	6.1	6.5	11.6	10.3	11.0	12.0	11.1	11.4	16.0	15.3	15.5
25	6.5	5.0	5.7	11.8	10.4	11.2	11.8	11.0	11.3	15.9	15.2	15.5
26	5.5	5.0	5.3	11.9	10.5	11.1	12.4	11.1	11.4	15.9	14.9	15.4
27	5.7	5.3	5.5	11.5	10.3	10.8	11.6	11.0	11.4	15.2	14.9	14.9
28	6.5	5.4	5.9	11.8	10.5	11.1	12.9	11.4	11.9	15.2	14.9	15.0
29	7.4	6.1	6.8	11.1	10.5	10.7	12.7	12.1	12.4	15.2	14.9	15.0
30	---	---	---	11.2	10.4	10.8	13.0	12.3	12.5	15.4	14.9	15.1
31	---	---	---	11.7	10.3	11.0	---	---	---	15.5	15.0	15.2
MONTH	7.4	2.5	4.3	11.9	6.8	9.7	14.2	9.8	11.6	16.0	11.4	14.5
	JUNE			JULY			AUGUST			SEPTEMBER		
1	15.4	15.1	15.2	19.2	19.0	19.1	19.5	18.7	19.1	19.9	19.1	19.5
2	15.6	15.1	15.3	19.2	19.1	19.1	19.3	18.6	19.0	19.8	19.2	19.5
3	15.4	15.1	15.3	19.4	19.2	19.3	19.4	18.7	19.1	19.7	19.4	19.5
4	15.5	15.2	15.3	19.6	19.2	19.4	19.5	19.1	19.3	19.8	19.4	19.6
5	16.0	15.2	15.6	19.7	19.4	19.5	19.4	19.1	19.2	19.9	19.5	19.6
6	16.7	15.8	16.4	20.0	19.5	19.7	19.7	19.1	19.4	19.9	19.5	19.7
7	17.3	16.6	17.0	20.1	19.7	19.9	19.8	19.0	19.4	19.7	19.5	19.6
8	17.6	17.1	17.4	20.2	20.0	20.1	19.7	19.3	19.5	19.8	19.4	19.6
9	17.6	17.5	17.6	20.4	20.1	20.2	19.7	19.4	19.5	20.5	19.4	19.8
10	17.9	17.6	17.7	20.7	20.3	20.4	19.7	19.3	19.5	20.1	19.2	19.6
11	18.1	17.8	17.9	20.9	20.5	20.7	19.6	19.2	19.3	20.1	19.3	19.7
12	18.2	17.9	18.0	20.9	20.1	20.5	19.7	19.1	19.4	19.8	19.4	19.5
13	18.2	18.0	18.1	20.4	19.9	20.2	19.6	18.9	19.2	20.2	19.3	19.6
14	18.2	18.1	18.1	20.8	19.8	20.2	20.0	18.7	19.1	20.3	19.3	19.6
15	18.3	18.1	18.2	20.3	19.1	19.8	19.7	18.5	19.1	20.4	19.4	19.7
16	18.4	18.2	18.2	19.8	19.1	19.3	19.9	18.6	19.1	20.2	19.8	20.0
17	18.4	18.2	18.3	19.8	19.1	19.3	19.6	18.7	19.1	20.2	19.8	20.0
18	18.4	18.3	18.3	19.7	18.9	19.2	19.9	18.9	19.3	20.4	19.9	20.2
19	18.4	18.3	18.4	19.9	18.8	19.2	19.8	19.2	19.4	20.6	19.8	20.2
20	18.5	18.3	18.4	19.8	18.8	19.2	19.6	19.1	19.3	20.5	20.0	20.2
21	18.5	18.3	18.4	20.2	18.9	19.2	19.8	19.1	19.4	20.5	20.1	20.3
22	18.5	18.4	18.5	19.8	18.9	19.2	20.3	18.9	19.3	20.5	20.0	20.2
23	18.6	18.4	18.5	19.7	19.1	19.2	19.5	18.8	19.2	20.5	19.9	20.2
24	18.8	18.5	18.6	19.5	18.9	19.2	20.4	19.0	19.4	20.4	20.0	20.2
25	18.8	18.3	18.5	19.5	18.7	19.0	20.3	19.0	19.4	20.8	20.1	20.4
26	18.7	18.4	18.5	19.1	18.7	18.9	19.6	19.1	19.3	20.6	19.8	20.3
27	18.9	18.4	18.7	19.8	18.7	19.1	19.7	19.1	19.3	20.7	20.0	20.4
28	19.0	18.7	18.9	19.5	18.5	19.0	19.6	19.2	19.4	20.6	20.0	20.3
29	19.1	18.9	19.0	19.4	18.6	19.0	19.6	19.2	19.4	20.6	20.1	20.4
30	19.2	19.0	19.1	19.7	18.7	19.1	19.5	19.3	19.4	20.7	20.3	20.5
31	---	---	---	19.6	18.6	19.0	19.6	19.2	19.4	---	---	---
MONTH	19.2	15.1	17.7	20.9	18.5	19.5	20.4	18.5	19.3	20.8	19.1	19.9
YEAR	22.2	2.5	13.6									

03319000 ROUGH RIVER NEAR DUNDEE, KY

LOCATION.--Lat 37°32'51", long 86°43'18", Ohio County, Hydrologic Unit 05110004, on right bank, 150 ft downstream from bridge on State Highway 919, 1.5 mi downstream from Caney Creek, 3 mi southeast of Dundee, and at mi 62.5.

DRAINAGE AREA.--757 mi², of which about 120 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1939 to September 1992 and March 2002 to current year. October 1939 to January 1940 monthly discharge only, published in WSP 1305.

REVISED RECORDS.--WSP 1555: Drainage area.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 393.18 ft above NGVD of 1929. See WDR KY-90-1 for history of changes prior to Aug. 14, 1979.

REMARKS.--Records fair except for those estimated, which are poor. Flow regulated by Rough River Lake (Station 03318005) beginning October 1959.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1937 reached a stage of 31.8 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--

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	317	1,120	e1,650	2,760	927	430	425	3,220	4,790	2,370	162	115
2	170	1,110	e1,490	5,410	1,040	400	318	4,630	6,470	2,130	108	116
3	84	1,110	e1,450	7,240	3,320	463	262	4,170	5,650	2,020	97	116
4	97	1,100	e1,440	4,870	2,560	808	218	2,620	3,150	2,000	214	115
5	140	1,100	e1,480	4,440	3,140	1,220	186	2,300	1,660	2,000	260	116
6	134	1,090	e1,540	3,130	4,610	3,670	169	2,570	1,210	2,010	257	114
7	129	893	e1,490	1,730	2,950	2,360	160	2,980	1,460	1,660	244	114
8	100	802	e1,430	1,080	e1,720	1,510	152	3,080	1,780	2,180	241	113
9	164	784	e1,570	835	e1,520	2,300	136	e2,880	1,960	2,240	238	113
10	291	775	e1,810	724	e1,470	2,620	123	e2,200	2,040	2,230	236	83
11	289	773	2,070	690	e1,390	2,570	112	e1,590	2,140	2,230	170	44
12	157	880	1,650	1,330	e1,310	2,060	137	e1,170	2,270	2,170	117	41
13	48	1,940	1,130	1,780	e1,260	1,030	1,120	e860	2,610	1,590	82	46
14	47	1,250	989	2,310	e1,200	677	4,360	875	2,440	1,200	37	64
15	73	e1,100	1,010	2,510	e1,150	659	3,660	3,810	2,310	985	32	51
16	656	e1,080	1,280	2,500	e1,080	456	1,710	4,430	2,310	556	31	129
17	973	e1,200	1,790	2,460	e1,040	384	812	2,050	2,410	144	31	230
18	970	e1,650	1,420	2,640	e820	318	505	1,610	2,470	77	30	229
19	963	3,110	1,830	2,960	329	272	378	1,700	2,350	71	30	227
20	958	2,250	1,670	2,730	149	313	313	2,490	2,240	69	32	226
21	959	1,650	1,290	2,550	130	1,340	409	2,010	2,180	66	35	226
22	959	e1,470	1,060	e2,300	108	814	1,520	1,550	2,150	67	34	163
23	956	1,710	1,940	e2,050	95	500	3,420	1,430	2,200	72	31	112
24	1,050	2,660	4,110	e1,720	91	390	4,210	1,400	2,260	51	33	111
25	1,100	2,900	2,520	e1,570	84	327	3,290	2,230	2,280	42	33	111
26	1,230	2,200	1,520	2,000	350	279	3,040	3,690	2,000	41	99	112
27	1,410	2,700	1,490	2,020	884	249	1,610	6,880	1,870	40	377	112
28	1,240	4,530	1,730	1,740	990	224	1,150	7,710	2,110	39	151	111
29	1,180	3,200	1,920	1,790	702	235	1,310	5,330	2,390	38	127	111
30	1,150	e1,980	3,480	1,800	---	389	2,100	2,650	2,480	37	119	111
31	1,140	---	2,960	1,230	---	485	---	5,000	---	42	116	---
TOTAL	19,134	50,117	54,209	74,899	36,419	29,752	37,315	91,115	75,640	30,467	3,804	3,682
MEAN	617	1,671	1,749	2,416	1,256	960	1,244	2,939	2,521	983	123	123
MAX	1,410	4,530	4,110	7,240	4,610	3,670	4,360	7,710	6,470	2,370	377	230
MIN	47	773	989	690	84	224	112	860	1,210	37	30	41

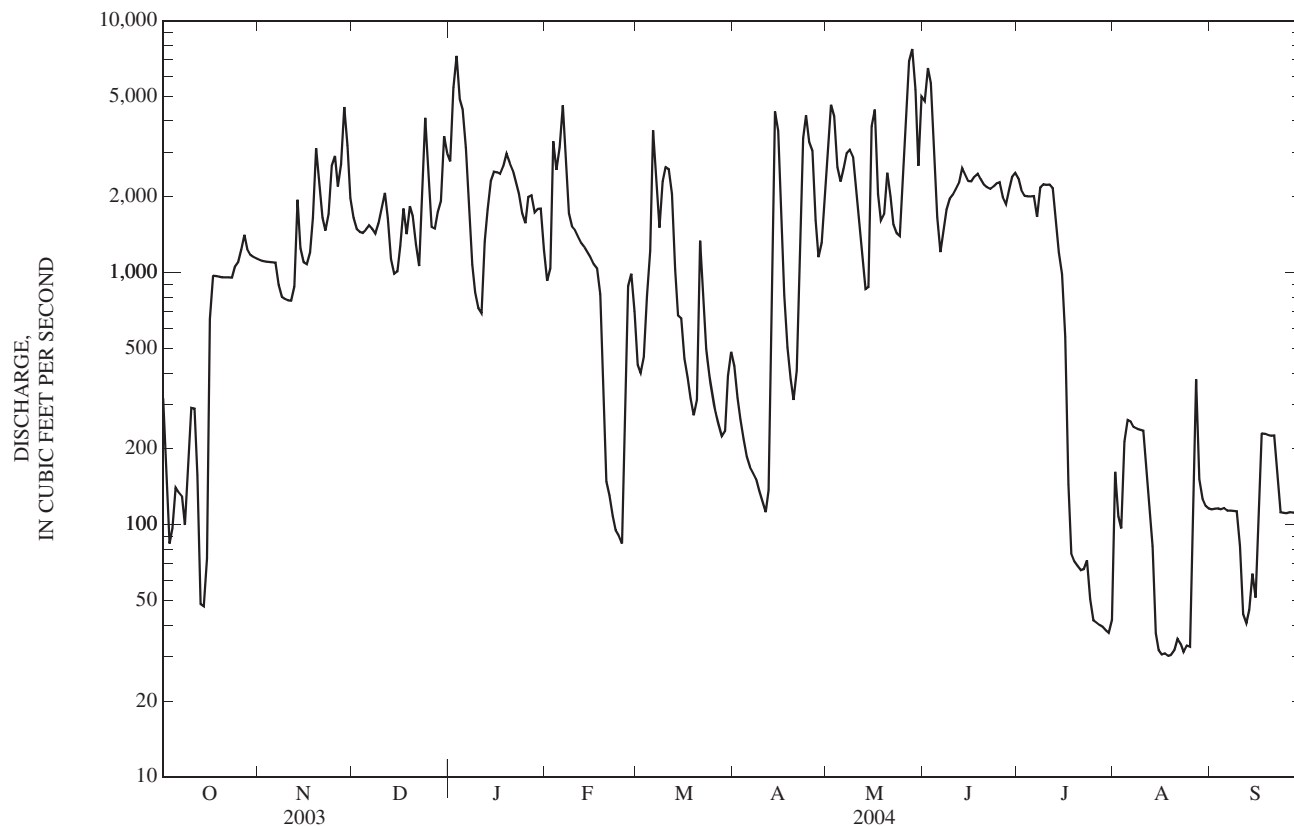
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2004, BY WATER YEAR (WY)

MEAN	766	1,212	1,650	1,789	2,242	1,839	1,418	1,344	794	404	241	457
MAX	1,871	3,187	4,041	3,488	5,717	4,420	4,602	4,658	2,521	1,670	1,050	3,832
(WY)	(2003)	(1980)	(1979)	(1978)	(1989)	(1979)	(1983)	(1983)	(2004)	(1967)	(1979)	(1979)
MIN	26.1	223	60.4	167	331	520	134	111	50.2	46.8	53.5	55.9
(WY)	(1961)	(1981)	(1964)	(1977)	(1964)	(1981)	(1986)	(1988)	(1988)	(2002)	(1960)	(1983)

03319000 ROUGH RIVER NEAR DUNDEE, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1960 - 2004	
ANNUAL TOTAL	580,138		506,553		1,169	
ANNUAL MEAN	1,589		1,384		2,274	
HIGHEST ANNUAL MEAN					593	
LOWEST ANNUAL MEAN					19,100	
HIGHEST DAILY MEAN	10,200	Feb 16	7,710	May 28	19,100	Feb 15, 1989
LOWEST DAILY MEAN	47	Jul 28	30	Aug 18	14	Sep 30, 1960
ANNUAL SEVEN-DAY MINIMUM	67	Jul 25	32	Aug 15	18	Sep 27, 1960
MAXIMUM PEAK FLOW			7,860	May 28	22,200	Sep 22, 1979
MAXIMUM PEAK STAGE			25.87	May 28	29.05	Sep 22, 1979
INSTANTANEOUS LOW FLOW			30	Aug 18	30	Aug 18, 2004
10 PERCENT EXCEEDS	2,840		2,970		2,700	
50 PERCENT EXCEEDS	1,420		1,140		673	
90 PERCENT EXCEEDS	154		84		74	

e Estimated



03320000 GREEN RIVER AT LOCK 2, AT CALHOUN, KY

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

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

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

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

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

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9,960	6,410	22,300	21,500	13,600	8,080	6,130	22,600	36,700	4,910	3,570	2,120
2	8,200	6,350	18,700	25,800	12,500	7,940	6,090	26,700	38,000	5,540	8,640	1,940
3	7,200	6,270	16,000	33,400	16,100	8,430	5,450	31,800	36,300	5,220	10,700	2,000
4	6,470	6,100	15,600	36,000	19,700	10,700	4,780	31,400	34,300	e5,000	9,370	2,290
5	5,620	5,930	17,000	38,500	23,400	12,200	4,340	28,000	31,800	e5,400	8,760	2,230
6	4,620	6,010	17,400	38,900	32,800	16,300	3,940	23,400	29,500	e6,450	8,480	2,370
7	3,960	6,300	16,700	36,100	37,300	23,600	3,650	20,700	27,300	e7,600	7,490	2,960
8	3,740	6,430	15,800	29,400	39,500	29,600	3,420	17,900	25,400	7,940	8,280	3,320
9	3,670	6,260	14,700	e21,000	40,400	28,000	3,280	14,900	23,100	7,240	7,860	3,150
10	3,640	6,140	13,700	e15,800	38,500	22,500	3,090	12,300	20,400	6,660	7,100	2,500
11	3,420	5,980	14,300	e12,500	31,800	e19,200	2,930	11,300	19,800	6,510	6,520	1,950
12	3,070	6,000	16,100	e12,700	28,400	e16,800	2,920	10,600	19,000	6,410	5,470	1,670
13	2,930	7,700	17,300	14,700	e25,000	e14,500	5,430	9,690	21,300	6,360	4,580	1,590
14	2,740	9,340	18,200	18,300	e22,200	e12,800	e16,400	9,060	20,900	6,440	3,990	1,740
15	2,520	10,200	19,200	22,300	e20,000	e11,000	e23,000	14,700	19,100	6,100	3,710	1,920
16	2,290	9,950	20,400	24,900	e18,500	e9,600	e22,000	21,000	18,500	5,050	3,020	1,840
17	3,000	9,620	20,800	24,000	e17,000	e8,700	e18,700	26,400	16,900	4,110	2,460	1,640
18	4,760	9,290	20,800	23,500	e15,200	e7,800	e16,100	24,300	14,300	3,530	2,140	1,670
19	5,790	13,400	21,000	23,400	14,000	e7,000	e13,700	21,600	11,400	3,800	2,010	4,360
20	6,110	18,700	19,500	23,300	12,500	6,430	e11,800	17,400	10,500	3,390	1,860	8,880
21	6,040	21,000	18,400	22,100	11,400	6,750	e12,000	15,300	9,370	2,600	1,940	8,360
22	6,010	18,600	17,800	19,300	10,400	9,200	e15,800	13,800	8,690	2,270	3,520	8,170
23	5,970	16,300	17,400	17,100	9,590	11,000	e23,000	11,800	8,230	2,650	4,420	8,270
24	6,000	15,400	19,500	15,600	8,930	9,470	e33,000	9,760	7,080	2,620	4,900	6,120
25	5,870	15,900	19,200	14,600	8,540	7,520	e35,000	8,780	6,330	2,920	4,630	6,230
26	7,170	16,300	18,100	16,100	8,140	6,160	e34,000	9,120	6,250	3,310	3,910	8,740
27	7,350	16,600	16,900	18,200	7,880	5,240	e29,500	14,400	5,930	3,240	3,150	6,780
28	7,310	20,100	15,200	18,800	8,010	4,690	e26,000	19,300	5,270	3,040	2,710	4,720
29	7,150	21,400	14,100	17,700	8,160	4,350	e22,500	24,700	4,750	2,720	2,510	4,800
30	6,870	22,300	17,000	16,500	---	4,610	22,400	25,300	4,640	2,360	2,290	4,880
31	6,620	---	20,000	15,200	---	5,650	---	32,000	---	2,520	2,180	---
TOTAL	166,070	346,280	549,100	687,200	559,450	355,820	430,350	580,010	541,040	143,910	152,170	119,210
MEAN	5,357	11,540	17,710	22,170	19,290	11,480	14,340	18,710	18,030	4,642	4,909	3,974
MAX	9,960	22,300	22,300	38,900	40,400	29,600	35,000	32,000	38,000	7,940	10,700	8,880
MIN	2,290	5,930	13,700	12,500	7,880	4,350	2,920	8,780	4,640	2,270	1,860	1,590

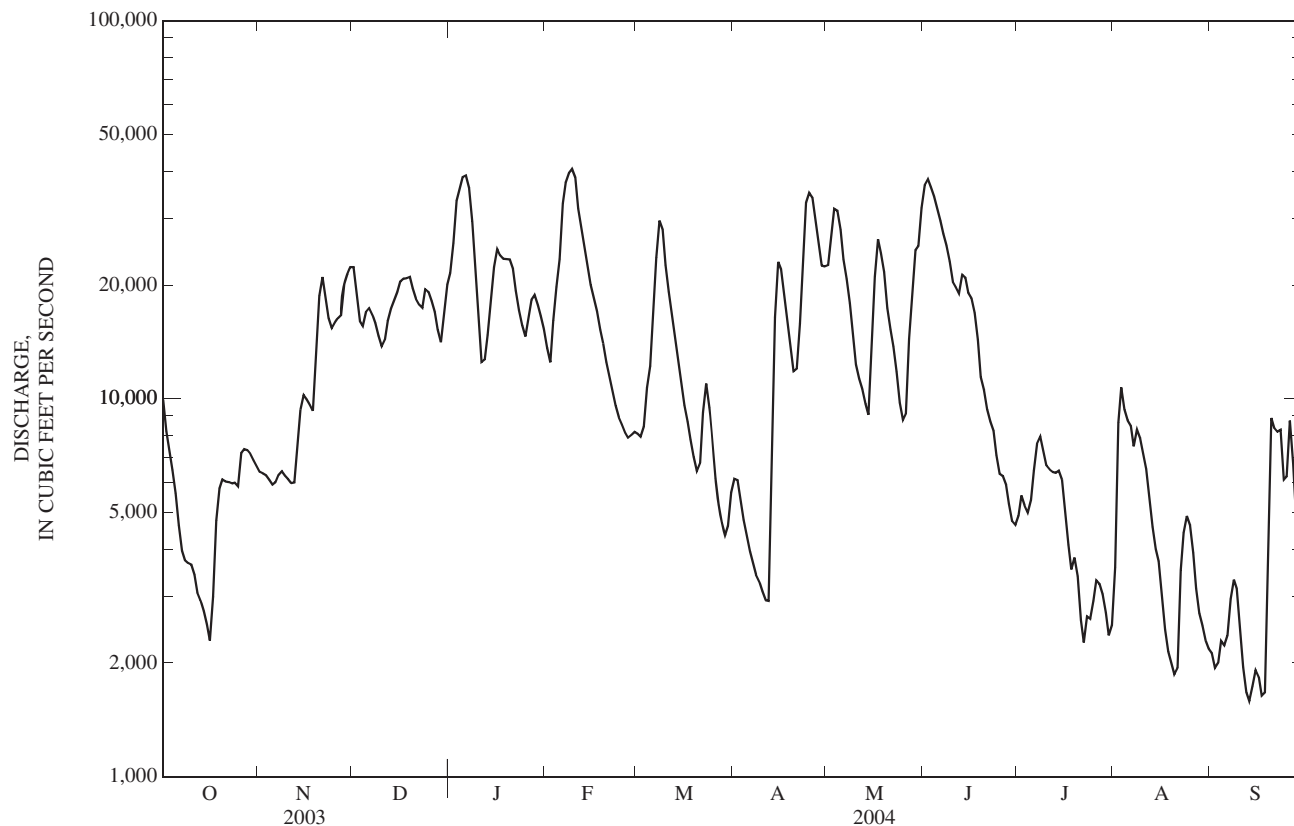
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2004, BY WATER YEAR (WY)

MEAN	5,613	10,330	16,460	18,360	21,750	19,720	15,470	13,500	9,065	4,548	2,888	4,234
MAX	19,100	22,770	46,530	41,100	52,100	53,330	42,430	50,460	23,850	12,260	8,763	27,360
(WY)	(1980)	(1980)	(1979)	(1974)	(1989)	(1997)	(1979)	(1983)	(1981)	(1989)	(1971)	(1979)
MIN	1,875	2,737	2,496	1,223	7,116	7,479	2,260	1,706	541	1,235	362	354
(WY)	(2000)	(2000)	(1981)	(1981)	(1977)	(1981)	(1986)	(1988)	(1988)	(2000)	(1999)	(1999)

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

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1970 - 2004	
ANNUAL TOTAL	5,041,390		4,630,610		11,780	
ANNUAL MEAN	13,810		12,650		22,070	
HIGHEST ANNUAL MEAN					5,345	
LOWEST ANNUAL MEAN					85,200	
HIGHEST DAILY MEAN	47,900	Feb 24	40,400	Feb 9	208,000	Mar 7, 1997
LOWEST DAILY MEAN	1,800	Aug 22	1,590	Sep 13	186	Sep 6, 1999
ANNUAL SEVEN-DAY MINIMUM	2,280	Aug 17	1,720	Sep 12	208,000	Sep 5, 1999
MAXIMUM PEAK FLOW			40,700	Feb 9	208,000	Jan 27, 1937
MAXIMUM PEAK STAGE			23.98	Jun 4	42.40	Jan 30, 1937
INSTANTANEOUS LOW FLOW			1,530	Sep 13	107	Sep 14, 1999
10 PERCENT EXCEEDS	28,100		25,100		29,600	
50 PERCENT EXCEEDS	10,800		9,370		7,190	
90 PERCENT EXCEEDS	3,670		2,930		1,420	

e Estimated



03320500 POND RIVER NEAR APEX, KY

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

DRAINAGE AREA.--194 mi².

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

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

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

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

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

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	11	40	238	304	136	68	107	1,260	e1,400	100	143	10
2	8.9	35	160	853	183	113	100	1,730	e920	135	75	8.8
3	7.1	32	128	e1,080	735	181	90	e1,470	e605	108	44	8.2
4	6.9	31	120	e850	744	626	82	e1,060	e370	91	83	7.4
5	6.7	30	128	1,060	1,150	599	75	e770	198	141	653	7.3
6	6.7	29	128	e786	2,110	718	70	e570	129	321	621	6.9
7	6.8	30	118	e575	e1,470	580	66	e420	97	604	246	6.4
8	7.0	31	106	e420	e1,040	357	63	e286	77	463	111	5.7
9	7.4	30	96	277	e748	259	60	189	67	228	64	5.2
10	8.7	29	106	219	e576	201	55	144	84	133	43	4.9
11	9.4	28	144	180	360	166	54	116	65	95	33	4.6
12	9.9	35	143	158	264	139	63	100	63	119	29	4.5
13	9.6	69	120	141	223	123	475	109	147	95	24	4.4
14	10	68	127	127	196	114	e1,500	143	139	106	20	4.0
15	12	67	185	120	174	107	e1,260	1,850	111	99	16	3.7
16	12	127	230	108	149	119	e834	1,980	219	60	17	3.6
17	14	129	311	100	136	137	e590	1,320	235	42	13	3.6
18	15	181	270	163	140	173	356	e900	177	34	11	3.3
19	16	586	222	301	129	197	223	e655	128	29	12	3.2
20	16	450	194	231	116	173	171	e460	94	25	12	3.0
21	16	231	159	168	101	252	175	e295	70	21	12	2.7
22	16	148	135	141	89	254	597	158	58	27	26	2.4
23	15	114	436	123	83	194	1,680	107	96	71	23	2.1
24	15	338	1,060	113	80	158	2,160	80	83	56	20	1.9
25	16	471	e770	175	77	136	e1,740	66	70	40	30	1.8
26	53	262	e495	671	73	136	e1,300	134	112	30	24	1.7
27	171	423	267	671	68	112	e910	e755	83	24	21	1.4
28	124	e868	190	484	65	103	e690	e454	53	20	18	1.3
29	86	e690	191	290	63	98	454	207	40	17	15	1.1
30	62	443	588	213	---	103	1,050	368	34	27	13	0.85
31	47	---	509	165	---	105	---	1,800	---	112	12	---
TOTAL	822.1	6,045	8,074	11,267	11,478	6,801	17,050	19,956	6,024	3,473	2,484	125.95
MEAN	26.5	202	260	363	396	219	568	644	201	112	80.1	4.20
MAX	171	868	1,060	1,080	2,110	718	2,160	1,980	1,400	604	653	10
MIN	6.7	28	96	100	63	68	54	66	34	17	11	0.85
CFSM	0.14	1.04	1.34	1.87	2.04	1.13	2.93	3.32	1.04	0.58	0.41	0.02
IN.	0.16	1.16	1.55	2.16	2.20	1.30	3.27	3.83	1.16	0.67	0.48	0.02

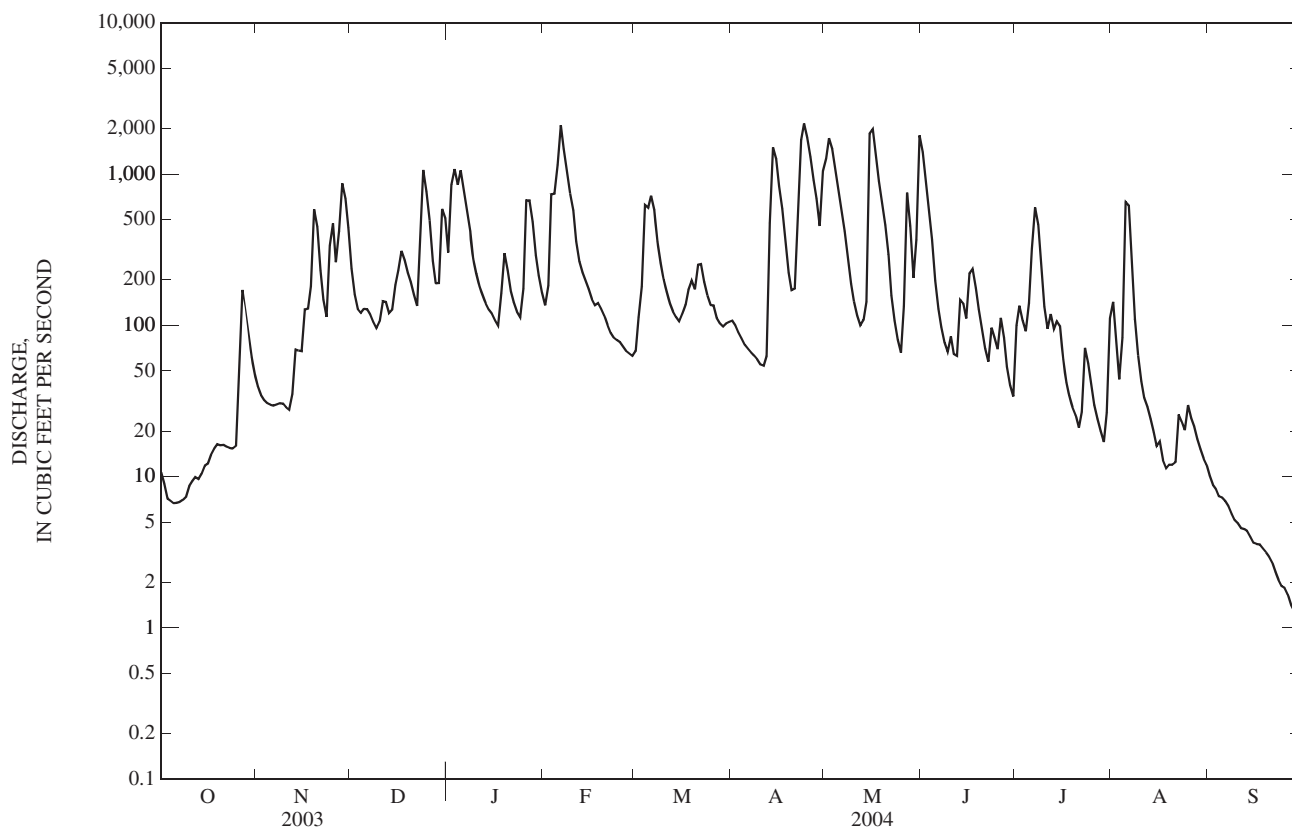
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2004, BY WATER YEAR (WY)

MEAN	30.4	173	403	448	612	596	438	334	121	58.9	31.7	61.7
MAX	485	1,430	2,167	2,024	3,988	2,519	1,822	2,607	900	440	239	988
(WY)	(2003)	(1958)	(1979)	(1950)	(1989)	(1997)	(1979)	(1984)	(1969)	(1989)	(1984)	(1979)
MIN	0.00	0.00	0.00	3.56	42.6	35.2	39.2	6.46	1.37	0.44	0.19	0.00
(WY)	(1954)	(1954)	(1964)	(1981)	(1941)	(1941)	(1986)	(1941)	(1964)	(1964)	(1993)	(1953)

03320500 POND RIVER NEAR APEX, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1941 - 2004	
ANNUAL TOTAL	119,891.60		93,600.05		274	
ANNUAL MEAN	328		256		643	
HIGHEST ANNUAL MEAN					59.8	
LOWEST ANNUAL MEAN					28,400	
HIGHEST DAILY MEAN	3,260	May 7	2,160	Apr 24	35,700	Feb 15, 1989
LOWEST DAILY MEAN	0.38	Jul 20	0.85	Sep 30	0.00	Oct 21, 1940
ANNUAL SEVEN-DAY MINIMUM	1.4	Jul 14	1.4	Sep 24	0.00	Oct 21, 1940
MAXIMUM PEAK FLOW			2,420	May 15	26.81	May 7, 1984
MAXIMUM PEAK STAGE			16.21	May 15	26.81	Nov 19, 1957
ANNUAL RUNOFF (CFSM)	1.69		1.32		1.41	
ANNUAL RUNOFF (INCHES)	22.99		17.95		19.19	
10 PERCENT EXCEEDS	928		738		733	
50 PERCENT EXCEEDS	129		114		49	
90 PERCENT EXCEEDS	9.6		8.8		0.80	

e Estimated



03321060 POND RIVER NEAR MADISONVILLE, KY

LOCATION.--Lat 37°19'02", long 87°22'09", Hopkins County, Hydrologic Unit 05110006, on left bank 3 ft downstream from bridge on State Highway 70, 4.2 mi downstream from Flat Creek, 5.0 mi upstream from Earle Creek, 6.3 mi east of Madisonville, and at mile 25.9.

DRAINAGE AREA.--469 mi².

PERIOD OF RECORD.--July 1991 to September 1996 discharge records. October 1996 to current year, gage height only.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 361.80 ft above NGVD of 1929.

REMARKS.--Records good.

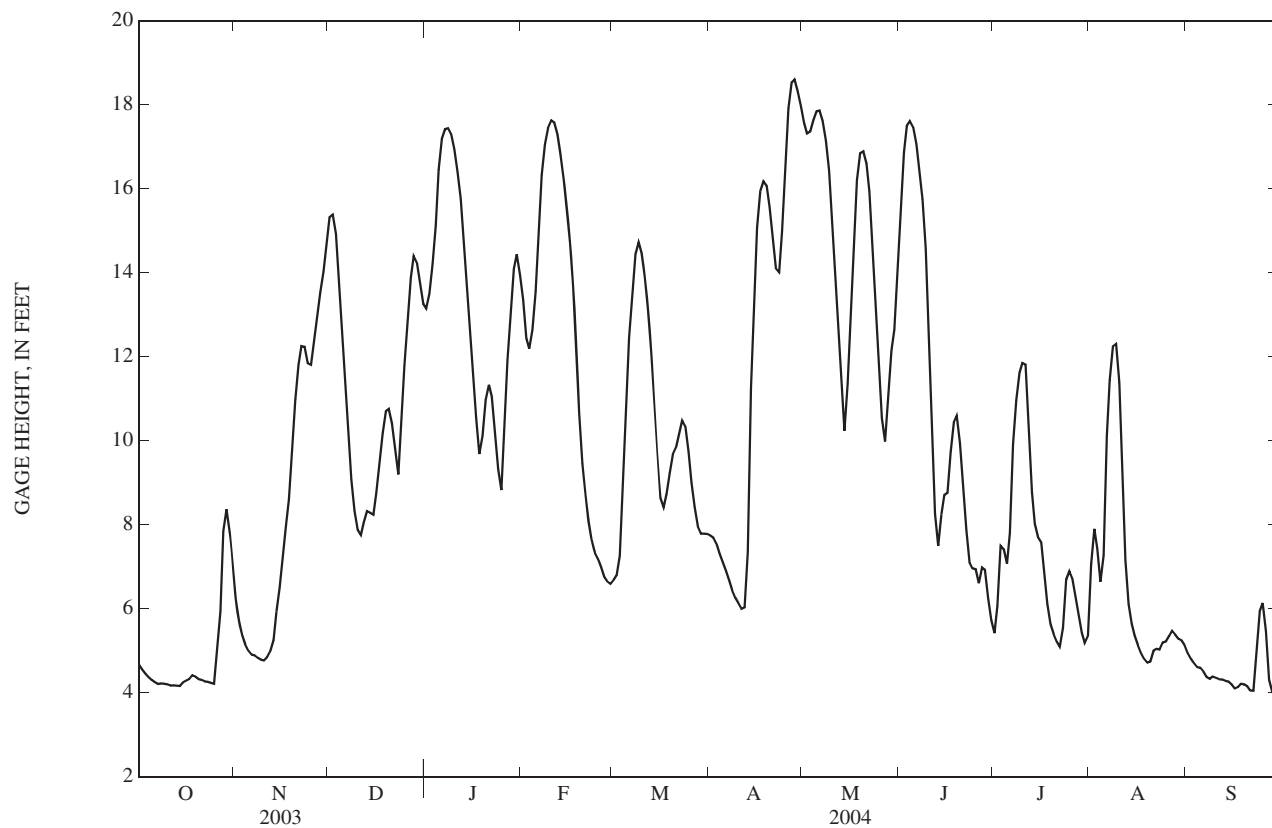
COOPERATION.--Kentucky Natural Resources and Environmental Protection Cabinet.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.67	6.22	15.32	13.15	13.35	6.68	7.74	17.56	15.23	5.42	7.06	4.95
2	4.55	5.72	15.38	13.50	12.44	6.79	7.69	17.31	16.86	6.08	7.90	4.81
3	4.45	5.36	14.92	14.21	12.19	e7.26	7.55	17.36	17.49	7.50	7.44	4.70
4	4.37	5.14	14.14	15.13	12.64	e9.36	7.31	17.63	17.61	7.41	6.65	4.61
5	4.31	4.99	13.09	16.45	13.55	e11.00	7.10	17.84	17.46	7.07	7.27	4.59
6	4.26	4.91	11.75	17.18	15.12	12.45	6.90	17.86	17.05	7.80	10.11	4.50
7	4.21	4.89	10.29	17.42	16.32	13.54	6.67	17.61	16.48	9.93	11.45	4.38
8	4.23	4.83	9.08	17.44	17.05	14.43	6.45	17.15	15.75	10.97	12.25	4.33
9	4.22	4.78	8.33	17.30	17.45	14.72	6.26	16.43	14.58	11.61	12.30	4.39
10	4.20	4.77	7.88	16.94	17.62	14.47	6.13	15.46	12.86	11.85	11.39	4.36
11	4.17	4.85	7.76	16.40	17.57	13.91	6.00	14.38	10.59	11.81	9.30	4.33
12	4.18	4.99	8.05	15.76	17.29	13.13	6.03	13.05	8.27	10.33	7.16	4.32
13	4.17	5.25	8.32	15.00	16.79	12.13	7.35	11.65	7.50	8.78	6.11	4.28
14	4.16	5.93	8.28	14.11	16.20	10.96	11.26	10.23	8.24	8.02	5.63	4.27
15	4.25	6.50	8.24	13.11	15.55	9.66	13.20	11.35	8.70	7.71	5.36	4.20
16	4.28	7.19	8.75	11.94	14.76	8.63	15.08	12.90	8.76	7.58	5.14	4.10
17	4.32	7.99	9.47	10.55	13.69	8.41	15.94	14.55	9.73	6.85	4.94	4.13
18	4.41	8.61	10.17	9.68	12.28	8.72	16.17	16.19	10.44	6.12	4.80	4.21
19	4.39	9.63	10.70	10.11	10.66	9.23	16.07	16.84	10.59	5.63	4.72	4.20
20	4.33	10.97	10.75	10.98	9.46	9.68	15.57	16.89	9.95	5.39	4.74	4.15
21	4.31	11.81	10.41	11.33	8.68	9.84	14.83	16.59	8.88	5.22	5.00	4.05
22	4.27	12.25	9.79	11.05	8.06	10.16	14.10	15.93	7.88	5.10	5.05	4.05
23	4.26	12.24	9.20	10.26	7.62	10.49	14.00	14.98	7.11	5.55	5.03	4.94
24	4.24	11.84	10.29	9.32	7.34	10.34	14.97	13.83	6.97	6.70	5.20	5.95
25	4.22	11.80	11.79	8.82	7.19	9.73	16.63	12.39	6.95	6.90	5.22	6.13
26	5.01	12.35	12.88	10.17	6.98	9.01	17.91	10.53	6.61	6.73	5.35	5.48
27	5.94	12.91	13.88	11.92	6.77	8.42	18.52	9.98	6.98	6.31	5.47	4.31
28	7.85	13.53	14.40	13.10	6.65	7.96	18.59	11.18	6.93	5.84	5.38	4.02
29	8.37	14.02	14.24	14.10	6.59	7.79	18.31	12.15	6.26	5.42	5.28	3.94
30	7.82	14.67	13.76	14.43	---	7.79	17.96	12.65	5.72	5.18	5.24	3.92
31	6.96	---	13.26	13.96	---	7.78	---	13.99	---	5.35	5.14	---
MEAN	4.82	8.36	11.12	13.38	12.34	10.14	11.94	14.66	10.81	7.36	6.74	4.49
MAX	8.37	14.67	15.38	17.44	17.62	14.72	18.59	17.86	17.61	11.85	12.30	6.13
MIN	4.16	4.77	7.76	8.82	6.59	6.68	6.00	9.98	5.72	5.10	4.72	3.92

e Estimated

03321060 POND RIVER NEAR MADISONVILLE, KY—Continued



WABASH RIVER BASIN

03378500 WABASH RIVER AT NEW HARMONY, IN

(National stream-quality accounting network station)

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

DRAINAGE AREA.--29,234 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

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

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--October 1974 to September 1980.

WATER TEMPERATURES.--October 1974 to September 1980.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)
NOV												
04...	1230	Environmental	14,400	22	0.097	0.073	--	--	8.4	623	16.5	290
04...	1240	Replicate	--	22	.101	.076	--	--	--	--	--	290
DEC												
02...	1220	Environmental	53,700	29	.136	.103	11.2	89	7.9	467	7.0	240
02...	1228	Field Blank	--	--	--	--	--	--	--	--	--	--
02...	1230	Replicate	--	--	--	--	--	--	--	--	--	--
JAN												
09...	1100	Environmental	120,000	200	.159	.124	--	--	7.5	290	2.0	130
20...	1340	Environmental	62,200	82	.121	.092	12.1	88	7.8	464	2.5	210
FEB												
03...	1320	Environmental	22,700	12	.059	.043	13.8	96	8.0	599	1.5	290
MAR												
09...	1240	Environmental	58,200	140	.131	.099	11.6	102	7.8	448	10.0	190
23...	1340	Environmental	22,900	22	.073	.054	13.7	118	8.4	607	9.5	300
23...	1348	Field Blank	--	--	<.004	<.004	--	--	--	--	--	--
APR												
19...	1230	Environmental	20,900	28	.061	.045	12.4	129	8.2	539	18.0	240
26...	1220	Environmental	17,200	20	.073	.054	11.6	123	8.3	597	18.5	280
MAY												
18...	1200	Environmental	18,100	65	.097	.073	9.7	110	8.2	563	22.0	260
18...	1210	Replicate	--	59	.097	.073	--	--	--	--	--	260
25...	1210	Environmental	25,000	100	.096	.071	7.3	88	8.0	562	25.0	270
25...	1218	Field Blank	--	--	--	--	--	--	--	--	--	--
JUN												
02...	1420	Environmental	71,100	180	.180	.137	5.8	69	7.5	366	22.5	150
22...	1330	Environmental	73,800	51	.171	.129	6.2	75	7.7	366	25.5	170
22...	1340	Replicate	--	48	.171	.128	--	--	--	--	--	160
JUL												
20...	1200	Environmental	25,400	83	.115	.085	8.1	101	8.0	477	27.0	230
AUG												
24...	1210	Environmental	10,500	19	.084	.063	11.8	145	8.3	556	26.5	230
31...	1300	Environmental	18,200	65	.171	.130	6.2	74	7.7	510	25.5	230
31...	1308	Field Blank	--	--	<.004	<.004	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

03378500 WABASH RIVER AT NEW HARMONY, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitro- gen, susp, water, mg/L (49570)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Pheo- phytin a, phyto- plank- ton, ug/L (62360)	Chloro- phyll a phyto- plank- ton, fluoro, ug/L (70953)
NOV													
04...	<0.04	2.00	E0.004	0.47	0.047	0.063	0.16	3.4	<0.1	3.4	3.5	35.2	36.0
04...	<.04	2.01	E.005	.49	.048	.064	.16	3.4	<.1	3.3	3.5	34.7	45.0
DEC													
02...	<.04	3.52	.011	.29	.079	.099	.24	2.8	<.1	2.7	4.3	5.0	3.1
02...	<.010	<.016	<.002	--	<.006	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
09...	<.04	1.97	.024	.45	.080	.097	.38	4.0	<.1	3.9	6.6	3.4	1.6
20...	.07	2.98	.011	.42	.108	.123	.30	3.8	<.1	3.8	4.4	2.0	2.6
FEB													
03...	E.03	3.02	.010	.12	.058	.066	.12	1.3	<.1	1.3	2.3	1.2	2.2
MAR													
09...	<.04	3.50	.017	.22	.081	.101	.36	2.1	<.1	2.1	4.6	3.4	3.6
23...	<.04	3.18	E.006	.27	.025	.036	.14	1.7	<.1	1.7	3.0	11.7	19.6
23...	--	--	--	<.02	--	--	--	<.1	<.1	<.01	0.3	--	--
APR													
19...	<.04	1.88	.009	1.05	<.006	.013	.16	11.4	1.2	10.2	2.8	53.7	92.7
26...	<.04	1.70	.009	.77	<.006	.012	.11	5.9	<.1	5.8	3.1	48.0	55.2
MAY													
18...	E.02	2.30	.027	.89	.010	.025	.20	6.6	.2	6.4	3.6	58.8	60.0
18...	E.02	2.29	.022	.80	.011	.024	.19	6.2	.9	5.3	5.2	53.7	53.3
25...	<.04	4.72	.043	.74	.058	.080	.30	8.0	1.9	6.1	3.3	32.8	27.0
25...	<.010	<.016	E.001	--	<.006	--	--	--	--	--	--	--	--
JUN													
02...	<.04	3.58	.077	.68	.084	.105	.39	6.0	<.1	5.9	6.1	6.6	7.6
22...	<.04	3.78	.071	.41	.100	.117	.22	3.3	<.1	3.3	5.2	13.8	19.1
22...	<.04	3.78	.069	.44	.099	.117	.24	3.6	<.1	3.5	5.2	13.9	19.1
JUL													
20...	<.04	1.69	E.007	.68	.060	.075	.24	5.6	.3	5.3	3.4	36.4	36.6
AUG													
24...	--	--	--	1.35	--	--	.17	9.5	.6	8.8	3.2	75.3	123
31...	--	--	--	.76	--	--	.26	6.7	.2	6.5	4.9	30.1	42.1
31...	--	--	--	<.02	--	--	--	<.1	<.1	<.1	.9	--	--

[illegible]

03378500 WABASH RIVER AT NEW HARMONY, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

03378500 WABASH RIVER AT NEW HARMONY, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethal- flur- alin, water, fltrd 0.7u GF ug/L (82663)	Etho- prop, water, fltrd 0.7u GF ug/L (82672)	Fonofos water, fltrd, ug/L (04095)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl para- thion, water, fltrd 0.7u GF ug/L (82667)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Moli- nate, water, fltrd 0.7u GF ug/L (82671)	Naprop- amide, water, fltrd 0.7u GF ug/L (82684)	p,p'- DDE, water, fltrd, ug/L (34653)
NOV													
04...	<0.004	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	0.048	<0.006	<0.003	<0.007	<0.003
04...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.051	<.006	<.003	<.007	<.003
DEC													
02...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.048	.009	<.003	<.007	<.003
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
09...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.041	.011	<.003	<.007	<.003
20...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.048	.011	<.003	<.007	<.003
FEB													
03...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.028	<.006	<.003	<.007	<.003
MAR													
09...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.056	.007	<.003	<.007	<.003
23...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.032	<.006	<.003	<.007	<.003
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
19...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.043	<.006	<.003	<.007	<.003
26...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.075	<.010	<.003	<.007	<.003
MAY													
18...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.508	<.010	<.003	<.007	<.003
18...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.528	.007	<.003	<.007	<.003
25...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	1.14	<.007	<.003	<.007	<.003
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
02...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	1.49	.035	<.003	<.007	<.003
22...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	1.04	.014	<.003	<.007	<.003
22...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	1.06	.015	<.003	<.007	<.003
JUL													
20...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.162	<.006	<.003	<.007	<.003
AUG													
24...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.051	<.006	<.003	<.007	<.003
31...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.043	<.006	<.003	<.007	<.003
31...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

WABASH RIVER BASIN

03378500 WABASH RIVER AT NEW HARMONY, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Thio- bencarb water fltrd 0.7u GF ug/L (82681)	Tri- allate, water, fltrd 0.7u GF ug/L (82678)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
NOV						
04...	<0.010	<0.002	<0.009	--	97	45
04...	<.010	<.002	<.009	--	96	44
DEC						
02...	<.010	<.002	<.009	--	83	115
02...	--	--	--	<0.04	--	--
02...	--	--	--	--	83	120
JAN						
09...	<.010	<.002	<.009	--	74	222
20...	<.010	<.002	<.009	.89	85	141
FEB						
03...	<.010	<.002	<.009	1.05	91	30
MAR						
09...	<.010	<.002	<.009	.92	93	260
23...	<.010	<.002	<.009	1.34	97	51
23...	--	--	--	--	--	--
APR						
19...	<.010	<.002	<.009	1.12	98	96
26...	<.010	<.002	<.009	--	98	74
MAY						
18...	<.010	<.002	<.009	.91	96	106
18...	<.010	<.002	<.009	.91	97	105
25...	<.010	<.002	<.009	.91	98	204
25...	--	--	--	<.04	--	--
JUN						
02...	<.010	<.002	<.009	--	66	402
22...	<.010	<.002	<.009	.56	82	117
22...	<.010	<.002	<.009	.55	84	112
JUL						
20...	<.010	<.002	<.009	.87	98	154
AUG						
24...	<.010	<.002	<.009	.98	97	52
31...	<.010	<.002	<.009	.90	99	140
31...	--	--	--	--	--	--

E--Laboratory estimated value.

M--Presence of material verified but not quantified.

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

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03383000 TRADEWATER RIVER AT OLNEY, KY

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

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

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

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

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

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

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

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	8.2	42	361	305	222	82	187	1,370	1,940	36	85	22
2	6.8	35	202	656	216	109	180	1,440	e1,550	30	97	16
3	6.0	27	159	1,440	584	130	160	e1,320	e1,300	25	57	13
4	5.6	21	141	e1,300	962	365	138	e1,000	e640	23	37	12
5	5.2	20	145	1,570	999	721	120	817	228	e30	38	10
6	4.4	19	150	e1,380	1,660	1,200	108	472	149	e95	114	8.9
7	4.2	19	148	e1,000	1,840	1,150	100	276	120	e200	66	7.2
8	4.3	16	135	647	e1,580	720	93	198	100	405	40	5.6
9	3.8	20	122	375	e1,200	414	87	162	89	211	27	4.6
10	3.8	19	119	293	e800	280	79	132	94	121	19	4.1
11	6.1	15	132	232	446	217	73	111	118	82	14	4.2
12	19	20	134	201	302	183	84	97	132	63	11	3.8
13	18	38	126	179	263	158	308	89	579	75	8.4	3.9
14	15	86	118	159	236	145	1,080	93	450	62	6.8	4.8
15	12	91	123	144	213	133	1,340	278	238	45	5.4	7.4
16	12	101	134	132	189	137	1,300	1,060	387	34	4.4	17
17	16	121	159	123	169	160	669	1,120	850	30	3.8	20
18	16	130	182	188	153	176	318	591	626	29	3.1	10
19	14	210	175	378	141	193	213	254	340	26	3.4	4.3
20	15	391	155	359	143	194	175	177	216	27	7.4	3.1
21	21	230	140	252	133	638	149	139	153	27	8.8	3.0
22	19	142	126	204	120	e600	147	114	118	26	10	3.1
23	15	108	153	176	111	e460	823	102	95	37	9.7	3.2
24	12	221	571	156	104	299	1,470	81	80	23	79	3.2
25	16	469	895	194	99	229	1,690	65	69	16	137	3.1
26	37	414	542	963	93	192	1,920	58	62	13	200	2.7
27	99	333	275	1,300	88	168	e1,700	517	62	11	178	2.5
28	104	917	200	1,130	82	150	e1,400	412	48	10	113	2.4
29	98	1,160	177	702	77	141	1,200	231	39	11	65	2.2
30	71	818	245	443	---	153	970	169	31	14	43	2.1
31	52	---	364	299	---	174	---	1,230	---	52	31	---
TOTAL	739.4	6,253	6,808	16,880	13,225	10,071	18,281	14,175	10,903	1,889	1,522.2	209.4
MEAN	23.9	208	220	545	456	325	609	457	363	60.9	49.1	6.98
MAX	104	1,160	895	1,570	1,840	1,200	1,920	1,440	1,940	405	200	22
MIN	3.8	15	118	123	77	82	73	58	31	10	3.1	2.1
CFSM	0.10	0.85	0.89	2.21	1.85	1.32	2.48	1.86	1.48	0.25	0.20	0.03
IN.	0.11	0.95	1.03	2.55	2.00	1.52	2.76	2.14	1.65	0.29	0.23	0.03

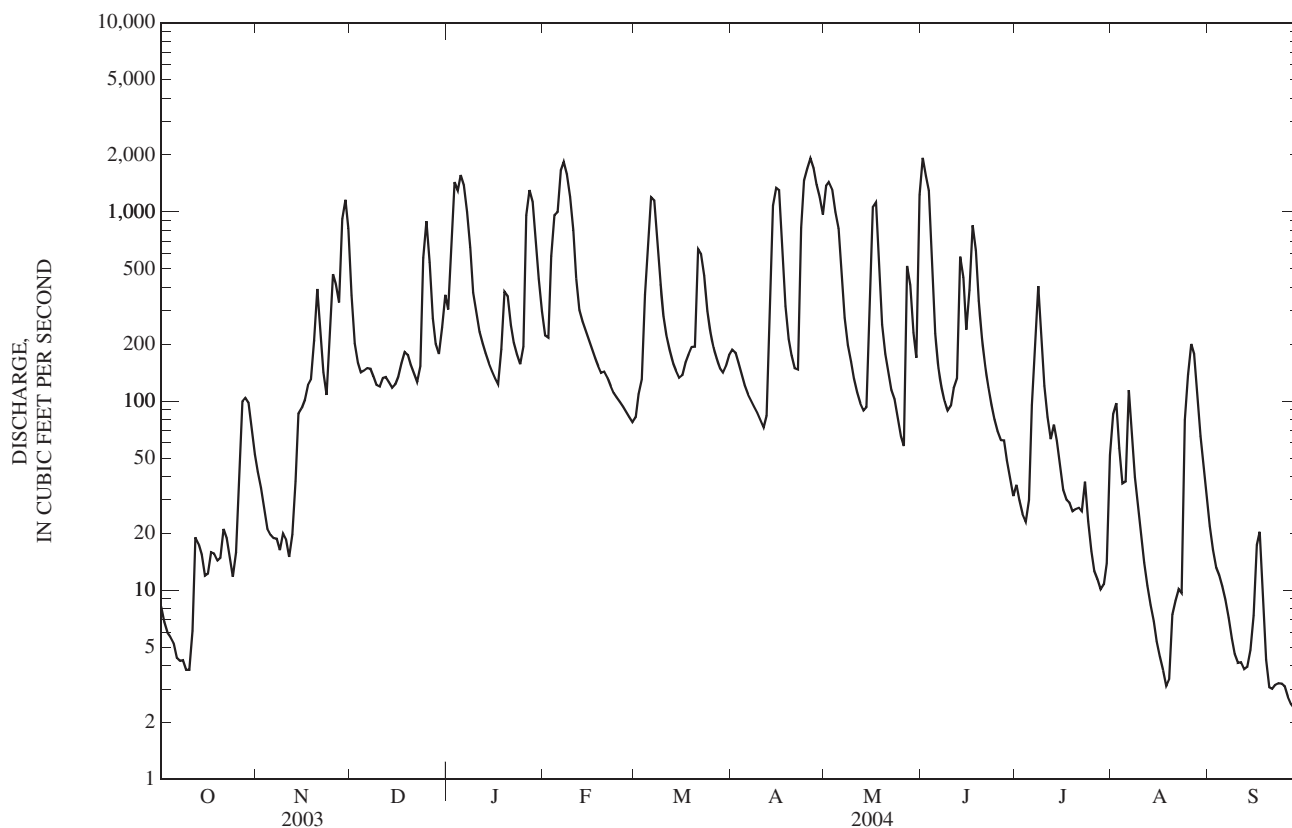
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2004, BY WATER YEAR (WY)

MEAN	36.5	203	458	556	727	754	591	402	155	86.7	35.1	48.2
MAX	324	2,178	1,963	2,268	3,529	2,360	1,851	1,878	949	946	275	798
(WY)	(1997)	(1958)	(1979)	(1950)	(1989)	(1997)	(1979)	(1983)	(1969)	(1989)	(1985)	(1950)
MIN	0.00	0.00	0.96	4.85	19.2	61.9	53.7	7.09	1.18	0.00	0.00	0.00
(WY)	(1941)	(1954)	(1964)	(1964)	(1964)	(1941)	(1986)	(1941)	(1944)	(1952)	(1952)	(1953)

03383000 TRADEWATER RIVER AT OLNEY, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1941 - 2004	
ANNUAL TOTAL	129,819.3		100,956.0		332	
ANNUAL MEAN	356		276		701	
HIGHEST ANNUAL MEAN					61.6	
LOWEST ANNUAL MEAN					14,000	
HIGHEST DAILY MEAN	2,510	Feb 23	1,940	Jun 1	14,000	Feb 16, 1989
LOWEST DAILY MEAN	3.8	Oct 9	2.1	Sep 30	0.00	Oct 1, 1940
ANNUAL SEVEN-DAY MINIMUM	4.5	Oct 4	2.6	Sep 24	0.00	Oct 1, 1940
MAXIMUM PEAK FLOW			1,970	Jun 1	14,600	Feb 16, 1989
MAXIMUM PEAK STAGE			12.53	Jun 1	18.85	Feb 16, 1989
ANNUAL RUNOFF (CFSM)	1.45		1.12		1.35	
ANNUAL RUNOFF (INCHES)	19.63		15.27		18.34	
10 PERCENT EXCEEDS	1,300		962		1,120	
50 PERCENT EXCEEDS	118		128		61	
90 PERCENT EXCEEDS	9.5		7.3		1.1	

e Estimated



03399800 OHIO RIVER AT SMITHLAND DAM, SMITHLAND, KY

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

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

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

GAGE.--Gate opening, and water-stage recorders with telemetry. Datum of headwater gage is 311.22 ft above NGVD of 1929. Datum of tailwater gage 0.8 mi downstream is 289.28 ft above NGVD of 1929.

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	173,000	142,000	343,000	333,000	155,000	164,000	233,000	266,000	419,000	148,000	155,000	108,000
2	177,000	144,000	326,000	336,000	139,000	148,000	260,000	286,000	439,000	109,000	173,000	103,000
3	180,000	137,000	308,000	333,000	139,000	141,000	280,000	306,000	455,000	101,000	167,000	105,000
4	180,000	121,000	312,000	346,000	181,000	175,000	294,000	318,000	461,000	97,900	144,000	94,200
5	155,000	110,000	336,000	375,000	216,000	228,000	310,000	315,000	461,000	80,200	150,000	81,700
6	139,000	90,100	350,000	372,000	261,000	263,000	334,000	297,000	464,000	86,500	148,000	64,700
7	124,000	89,900	325,000	381,000	357,000	289,000	354,000	262,000	465,000	101,000	145,000	60,300
8	114,000	123,000	286,000	407,000	429,000	328,000	365,000	242,000	456,000	88,000	137,000	60,400
9	109,000	154,000	251,000	432,000	466,000	409,000	358,000	220,000	430,000	95,400	117,000	68,300
10	104,000	162,000	234,000	455,000	497,000	458,000	330,000	193,000	397,000	89,900	92,400	110,000
11	85,500	171,000	226,000	474,000	518,000	480,000	277,000	161,000	340,000	91,800	66,800	157,000
12	76,900	151,000	225,000	490,000	531,000	477,000	224,000	145,000	262,000	79,400	42,500	219,000
13	71,900	151,000	226,000	503,000	530,000	474,000	191,000	129,000	189,000	95,800	57,200	270,000
14	62,500	192,000	237,000	510,000	518,000	473,000	189,000	118,000	203,000	98,200	66,700	313,000
15	60,300	242,000	264,000	511,000	512,000	466,000	224,000	132,000	232,000	97,500	59,500	330,000
16	77,400	290,000	293,000	501,000	494,000	454,000	275,000	153,000	264,000	112,000	37,200	326,000
17	104,000	331,000	311,000	479,000	464,000	415,000	322,000	161,000	277,000	128,000	47,000	280,000
18	134,000	355,000	321,000	451,000	400,000	278,000	362,000	159,000	291,000	114,000	48,700	181,000
19	131,000	358,000	322,000	409,000	253,000	206,000	390,000	151,000	299,000	121,000	42,300	151,000
20	128,000	329,000	324,000	365,000	184,000	186,000	401,000	150,000	306,000	110,000	40,000	203,000
21	128,000	295,000	323,000	332,000	155,000	191,000	395,000	177,000	304,000	86,400	41,400	272,000
22	130,000	290,000	321,000	306,000	154,000	200,000	389,000	202,000	305,000	81,900	62,000	326,000
23	113,000	326,000	310,000	293,000	152,000	204,000	374,000	226,000	295,000	87,800	92,200	340,000
24	99,100	368,000	282,000	273,000	166,000	212,000	353,000	246,000	285,000	97,000	127,000	360,000
25	89,100	372,000	258,000	236,000	180,000	230,000	334,000	254,000	259,000	96,700	139,000	376,000
26	95,900	360,000	257,000	204,000	187,000	246,000	322,000	285,000	220,000	90,900	145,000	377,000
27	86,800	348,000	273,000	185,000	193,000	250,000	316,000	336,000	202,000	80,900	148,000	375,000
28	89,500	397,000	290,000	172,000	188,000	241,000	308,000	377,000	193,000	70,800	107,000	351,000
29	97,500	396,000	310,000	159,000	182,000	231,000	287,000	393,000	187,000	76,500	101,000	261,000
30	96,900	385,000	326,000	166,000	---	216,000	265,000	370,000	170,000	139,000	100,000	146,000
31	136,000	---	334,000	166,000	---	220,000	---	391,000	---	144,000	92,100	---
TOTAL	3,548,300	7,380,000	9,104,000	10,955,000	8,801,000	8,953,000	9,316,000	7,421,000	9,530,000	3,096,500	3,091,000	6,469,600
MEAN	114,500	246,000	293,700	353,400	303,500	288,800	310,500	239,400	317,700	99,890	99,710	215,700
MAX	180,000	397,000	350,000	511,000	531,000	480,000	401,000	393,000	465,000	148,000	173,000	377,000
MIN	60,300	89,900	225,000	159,000	139,000	141,000	189,000	118,000	170,000	70,800	37,200	60,300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2004, BY WATER YEAR (WY)

	MEAN											
MEAN	64,780	116,400	188,300	218,900	311,900	348,500	289,600	306,600	216,800	98,540	75,560	67,750
MAX	114,500	246,000	379,200	353,400	536,200	700,900	594,100	562,200	376,000	203,600	132,400	215,700
(WY)	(2004)	(2004)	(1997)	(2004)	(1994)	(1997)	(1994)	(1996)	(1997)	(1998)	(2003)	(2004)
MIN	24,530	34,800	59,450	89,880	213,000	216,300	150,000	112,600	60,070	43,110	19,190	12,490
(WY)	(2000)	(1999)	(1999)	(2001)	(1995)	(2000)	(1995)	(2000)	(1999)	(1999)	(1999)	(1999)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1994 - 2004	
ANNUAL TOTAL	87,456,100		87,665,400		191,300	
ANNUAL MEAN	239,600		239,500		120,900	
HIGHEST ANNUAL MEAN					247,000	
LOWEST ANNUAL MEAN					120,900	
HIGHEST DAILY MEAN	627,000	Feb 28	531,000	Feb 12	831,000	Mar 12, 1997
LOWEST DAILY MEAN	46,100	Jan 30	37,200	Aug 16	3,090	Aug 5, 1999
ANNUAL SEVEN-DAY MINIMUM	58,300	Jan 25	45,200	Aug 15	10,200	Sep 1, 1999
MAXIMUM PEAK FLOW			533,000		832,000	
MAXIMUM PEAK STAGE			39.61		51.44	
10 PERCENT EXCEEDS	476,000		416,000		443,000	
50 PERCENT EXCEEDS	199,000		226,000		141,000	
90 PERCENT EXCEEDS	88,500		89,800		31,700	

