



Water Resources Data Kentucky Water Year 1997



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT KY-97-1
Prepared in cooperation with the Commonwealth of
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CUMBERLAND RIVER BASIN

03400798 MARTINS FORK LAKE AT MARTINS FORK DAM NEAR SMITH, KY--Continued.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

PUMP NUMBER 2

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.4	19.0	19.2	16.5	16.3	16.4	---	---	---	---	---	---
2	19.6	19.0	19.2	16.5	16.3	16.4	---	---	---	---	---	---
3	19.5	19.1	19.3	16.3	15.8	16.0	---	---	---	---	---	---
4	19.5	19.1	19.3	15.8	15.4	15.6	---	---	---	---	---	---
5	19.3	18.8	19.1	15.1	14.5	14.9	---	---	---	---	---	---
6	19.0	18.6	18.9	14.5	14.3	14.5	---	---	---	---	---	---
7	19.0	18.5	18.8	14.7	14.1	14.4	---	---	---	---	---	---
8	18.9	18.5	18.7	14.7	13.9	14.4	---	---	---	---	---	---
9	18.9	18.3	18.5	14.7	14.3	14.5	---	---	---	---	---	---
10	18.7	18.0	18.4	14.1	13.9	14.0	---	---	---	---	---	---
11	18.4	18.0	18.1	13.9	13.1	13.4	---	---	---	---	---	---
12	18.2	17.7	18.0	13.1	12.5	12.8	---	---	---	---	---	---
13	17.9	17.5	17.7	12.5	12.3	12.4	---	---	---	---	---	---
14	17.5	17.5	17.5	12.3	12.1	12.2	---	---	---	---	---	---
15	17.4	17.2	17.3	11.9	11.5	11.7	---	---	---	---	---	---
16	17.4	17.0	17.2	11.7	11.3	11.5	---	---	---	---	---	---
17	17.4	17.1	17.2	11.5	11.1	11.3	---	---	---	---	---	---
18	17.5	16.9	17.1	11.1	11.1	11.1	---	---	---	---	---	---
19	17.3	16.9	17.1	---	---	---	---	---	---	---	---	---
20	17.0	16.6	16.8	---	---	---	---	---	---	---	---	---
21	17.1	16.4	16.8	---	---	---	---	---	---	---	---	---
22	17.1	16.9	17.0	---	---	---	---	---	---	---	---	---
23	17.7	16.7	17.1	---	---	---	---	---	---	---	---	---
24	17.1	16.7	16.9	---	---	---	---	---	---	---	---	---
25	16.7	16.3	16.6	---	---	---	---	---	---	---	---	---
26	16.5	16.3	16.4	---	---	---	---	---	---	---	---	---
27	16.5	16.3	16.3	---	---	---	---	---	---	---	---	---
28	16.3	16.2	16.3	---	---	---	---	---	---	---	---	---
29	16.5	16.2	16.3	---	---	---	---	---	---	---	---	---
30	17.9	16.5	17.3	---	---	---	---	---	---	---	---	---
31	16.5	16.3	16.4	---	---	---	---	---	---	---	---	---
MONTH	19.6	16.2	17.6	16.5	11.1	13.8	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	13.3	12.9	13.2	13.7	13.3	13.5
2	---	---	---	---	---	---	13.3	13.1	13.1	13.9	13.3	13.6
3	---	---	---	---	---	---	13.5	12.9	13.1	14.3	13.5	13.8
4	---	---	---	---	---	---	13.1	12.5	12.7	14.5	13.9	14.2
5	---	---	---	---	---	---	13.3	12.5	12.8	14.5	14.1	14.3
6	---	---	---	---	---	---	12.7	12.5	12.6	14.9	14.3	14.6
7	---	---	---	---	---	---	13.3	12.5	12.8	15.5	14.7	15.2
8	---	---	---	---	---	---	13.7	12.7	13.0	15.5	14.9	15.2
9	---	---	---	---	---	---	13.5	12.7	13.0	15.7	15.5	15.6
10	---	---	---	---	---	---	13.3	12.9	13.1	16.1	15.3	15.8
11	---	---	---	---	---	---	13.3	12.7	13.0	16.4	15.5	16.0
12	---	---	---	---	---	---	13.3	12.7	13.0	17.6	15.5	16.4
13	---	---	---	---	---	---	13.5	12.7	13.1	16.3	15.7	16.0
14	---	---	---	---	---	---	13.3	12.9	13.1	16.3	15.7	16.0
15	---	---	---	---	---	---	12.9	12.9	12.9	16.6	15.9	16.4
16	---	---	---	---	---	---	13.9	12.9	13.2	16.4	16.1	16.3
17	---	---	---	---	---	---	13.5	12.9	13.1	16.6	16.1	16.4
18	---	---	---	---	---	---	13.5	12.9	13.0	16.8	16.3	16.5
19	---	---	---	11.9	11.1	11.4	13.5	12.9	13.2	16.8	16.3	16.6
20	---	---	---	11.7	11.0	11.4	13.5	12.9	13.2	17.0	16.4	16.8
21	---	---	---	11.7	11.1	11.4	13.3	12.9	13.1	17.2	16.4	16.8
22	---	---	---	12.3	10.8	11.2	13.3	12.9	13.1	17.2	16.6	16.9
23	---	---	---	13.5	11.7	12.2	13.1	12.9	13.0	17.2	16.8	16.9
24	---	---	---	12.5	11.3	12.1	13.3	12.7	13.0	17.0	16.8	16.8
25	---	---	---	14.7	12.1	13.1	13.3	12.7	13.0	17.0	16.6	16.8
26	---	---	---	14.1	12.1	12.8	13.1	12.7	12.9	17.4	17.0	17.2
27	---	---	---	13.3	12.5	12.9	13.1	12.9	13.0	18.2	17.2	17.7
28	---	---	---	13.3	12.5	12.9	13.1	12.7	12.9	18.0	17.8	17.9
29	---	---	---	14.7	12.5	13.1	13.3	12.9	13.1	18.4	17.6	18.0
30	---	---	---	13.7	12.9	13.2	13.5	13.1	13.3	18.0	17.6	17.7
31	---	---	---	13.7	12.5	13.0	---	---	---	17.8	17.4	17.7
MONTH	---	---	---	14.7	10.8	12.4	13.9	12.5	13.0	18.4	13.3	16.1

CUMBERLAND RIVER BASIN

03400798 MARTINS FORK LAKE AT MARTINS FORK DAM NEAR SMITH, KY--Continued.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	PUMP NUMBER 2						AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY								
1	18.2	17.6	17.9	19.0	18.6	18.8	20.6	20.2	20.5	21.4	20.2	20.7
2	18.6	17.8	18.2	19.2	18.4	18.8	20.6	20.0	20.4	21.4	20.6	20.8
3	18.6	17.6	18.2	19.2	18.4	18.9	21.0	20.4	20.7	21.4	20.0	20.7
4	18.0	17.8	17.9	19.0	18.6	18.8	21.0	20.6	20.7	21.7	20.4	21.0
5	18.2	17.6	17.9	19.2	18.8	19.0	21.5	20.4	20.8	21.7	20.4	21.0
6	18.4	18.0	18.2	19.2	18.8	19.0	21.2	20.8	20.9	21.9	20.4	21.3
7	18.4	17.6	17.9	19.2	18.8	19.0	21.0	20.8	20.9	21.9	20.8	21.3
8	18.0	17.6	17.8	19.4	19.0	19.1	21.2	21.0	21.1	22.1	20.2	21.4
9	18.2	17.4	17.8	19.4	18.8	19.1	21.2	20.8	21.0	21.9	20.6	21.4
10	18.2	17.8	18.0	19.4	18.8	19.2	21.2	20.6	20.9	21.7	21.0	21.4
11	18.0	17.6	17.8	19.4	18.8	19.2	21.4	20.2	20.9	21.9	21.0	21.4
12	17.8	17.6	17.7	19.4	19.2	19.3	21.9	20.8	21.2	21.7	21.2	21.6
13	18.0	17.6	17.8	19.6	19.2	19.3	21.7	20.6	21.2	21.7	21.2	21.5
14	18.2	17.8	17.9	19.6	19.0	19.4	21.5	21.2	21.4	21.9	21.0	21.5
15	18.0	17.6	17.9	19.6	19.2	19.5	21.4	19.0	20.5	22.1	21.0	21.7
16	18.2	17.8	18.0	19.8	19.4	19.5	20.4	19.8	20.2	---	---	---
17	18.4	17.8	18.0	19.6	19.2	19.4	21.4	19.4	20.2	---	---	---
18	18.0	17.8	18.0	19.8	19.4	19.6	20.6	19.2	20.0	---	---	---
19	18.4	17.8	18.0	19.6	19.4	19.6	21.0	19.4	20.0	---	---	---
20	18.6	17.8	18.1	19.8	19.4	19.6	20.4	19.8	20.1	---	---	---
21	19.0	18.4	18.7	20.2	19.4	19.7	20.8	19.6	20.2	---	---	---
22	19.4	18.6	18.9	20.4	19.4	19.9	20.8	19.8	20.3	---	---	---
23	19.2	18.6	18.8	20.2	19.6	19.9	21.0	19.8	20.2	---	---	---
24	19.0	18.2	18.7	20.2	19.6	19.8	21.2	20.0	20.4	---	---	---
25	19.0	18.2	18.6	20.2	19.8	20.0	21.2	19.8	20.3	---	---	---
26	19.0	18.4	18.7	20.2	19.8	20.0	20.6	19.8	20.3	---	---	---
27	19.0	18.4	18.7	20.2	20.0	20.2	21.2	19.6	20.5	---	---	---
28	19.2	18.6	18.8	20.6	20.0	20.4	21.0	19.8	20.4	---	---	---
29	18.8	18.4	18.6	20.8	20.2	20.5	21.2	20.2	20.7	---	---	---
30	19.0	18.6	18.8	20.8	20.0	20.4	20.8	19.8	20.6	---	---	---
31	---	---	---	20.6	20.2	20.4	21.2	20.0	20.8	---	---	---
MONTH	19.4	17.4	18.2	20.8	18.4	19.5	21.9	19.0	20.6	22.1	20.0	21.2
YEAR	22.1	10.8	17.2									

PUMP NUMBER 3

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.5	21.0	21.4	17.3	16.9	17.1	---	---	---	---	---	---
2	21.5	21.1	21.4	16.7	16.3	16.5	---	---	---	---	---	---
3	21.4	20.9	21.2	16.5	16.0	16.2	---	---	---	---	---	---
4	20.9	20.8	20.9	15.9	15.5	15.7	---	---	---	---	---	---
5	20.9	20.4	20.7	15.3	15.1	15.2	---	---	---	---	---	---
6	20.4	20.4	20.4	15.1	14.9	15.0	---	---	---	---	---	---
7	20.4	20.3	20.4	16.1	15.1	15.6	---	---	---	---	---	---
8	20.3	19.9	20.1	15.9	14.7	15.3	---	---	---	---	---	---
9	19.9	19.7	19.8	14.7	14.3	14.5	---	---	---	---	---	---
10	19.7	19.2	19.3	14.3	13.9	14.1	---	---	---	---	---	---
11	19.0	18.8	18.8	13.9	13.3	13.6	---	---	---	---	---	---
12	18.6	18.3	18.5	13.1	12.9	13.0	---	---	---	---	---	---
13	18.5	18.1	18.3	12.9	12.5	12.7	---	---	---	---	---	---
14	18.3	17.9	18.1	12.3	12.3	12.3	---	---	---	---	---	---
15	18.4	17.8	18.1	12.1	11.7	11.9	---	---	---	---	---	---
16	18.8	18.0	18.3	12.5	11.7	12.0	---	---	---	---	---	---
17	18.7	17.8	18.3	11.9	11.5	11.8	---	---	---	---	---	---
18	18.5	17.9	18.1	12.3	11.5	11.8	---	---	---	---	---	---
19	17.9	17.5	17.7	---	---	---	---	---	---	---	---	---
20	17.6	17.0	17.4	---	---	---	---	---	---	---	---	---
21	17.5	16.8	17.2	---	---	---	---	---	---	---	---	---
22	17.3	17.1	17.2	---	---	---	---	---	---	---	---	---
23	18.1	17.1	17.7	---	---	---	---	---	---	---	---	---
24	18.1	17.1	17.5	---	---	---	---	---	---	---	---	---
25	17.1	16.7	16.9	---	---	---	---	---	---	---	---	---
26	16.9	16.7	16.9	---	---	---	---	---	---	---	---	---
27	17.1	16.9	17.0	---	---	---	---	---	---	---	---	---
28	17.1	16.9	17.0	---	---	---	---	---	---	---	---	---
29	17.9	16.9	17.3	---	---	---	---	---	---	---	---	---
30	18.1	17.5	17.9	---	---	---	---	---	---	---	---	---
31	18.1	17.3	17.5	---	---	---	---	---	---	---	---	---
MONTH	21.5	16.7	18.6	17.3	11.5	14.1	---	---	---	---	---	---

CUMBERLAND RIVER BASIN

03400798 MARTINS FORK LAKE AT MARTINS FORK DAM NEAR SMITH, KY--Continued.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

PUMP NUMBER 4

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.5	21.5	22.5	---	---	---	---	---	---	---	---	---
2	22.3	21.7	22.0	---	---	---	---	---	---	---	---	---
3	22.0	21.3	21.8	---	---	---	---	---	---	---	---	---
4	21.8	20.5	21.1	---	---	---	---	---	---	---	---	---
5	21.7	20.6	21.1	---	---	---	---	---	---	---	---	---
6	21.7	20.8	21.4	---	---	---	---	---	---	---	---	---
7	21.7	20.6	21.1	---	---	---	---	---	---	---	---	---
8	21.6	20.3	20.8	---	---	---	---	---	---	---	---	---
9	19.9	19.7	19.9	---	---	---	---	---	---	---	---	---
10	20.2	19.2	19.4	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	23.5	19.2	21.1	---	---	---	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	18.4	17.4	18.0
7	---	---	---	---	---	---	---	---	---	20.2	16.8	18.6
8	---	---	---	---	---	---	---	---	---	18.6	18.2	18.5
9	---	---	---	---	---	---	---	---	---	18.8	18.0	18.5
10	---	---	---	---	---	---	---	---	---	18.8	17.6	18.3
11	---	---	---	---	---	---	---	---	---	19.4	17.4	18.4
12	---	---	---	---	---	---	---	---	---	19.2	18.0	18.6
13	---	---	---	---	---	---	---	---	---	18.8	18.0	18.4
14	---	---	---	---	---	---	---	---	---	18.6	18.0	18.3
15	---	---	---	---	---	---	---	---	---	19.4	18.2	18.8
16	---	---	---	---	---	---	---	---	---	19.4	17.8	18.6
17	---	---	---	---	---	---	---	---	---	19.8	18.2	19.0
18	---	---	---	---	---	---	---	---	---	20.8	18.6	19.7
19	---	---	---	---	---	---	---	---	---	21.2	19.6	20.0
20	---	---	---	---	---	---	---	---	---	21.5	20.2	20.8
21	---	---	---	---	---	---	---	---	---	21.5	20.0	20.4
22	---	---	---	---	---	---	---	---	---	21.7	19.6	20.6
23	---	---	---	---	---	---	---	---	---	23.3	19.8	21.5
24	---	---	---	---	---	---	---	---	---	22.1	20.6	21.6
25	---	---	---	---	---	---	---	---	---	21.7	21.4	21.6
26	---	---	---	---	---	---	---	---	---	22.7	21.2	21.8
27	---	---	---	---	---	---	---	---	---	21.5	21.2	21.4
28	---	---	---	---	---	---	---	---	---	20.4	20.0	20.3
29	---	---	---	---	---	---	---	---	---	20.2	19.8	19.9
30	---	---	---	---	---	---	---	---	---	21.2	19.6	20.3
31	---	---	---	---	---	---	---	---	---	21.9	20.2	21.2
MONTH	---	---	---	---	---	---	---	---	---	23.3	16.8	19.7

CUMBERLAND RIVER BASIN

03400798 MARTINS FORK LAKE AT MARTINS FORK DAM NEAR SMITH, KY--Continued.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

PUMP NUMBER 4

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.7	21.0	21.4	27.0	25.7	26.2	27.6	26.5	26.9	---	---	---
2	22.1	20.6	21.2	28.0	25.7	26.8	27.8	26.5	27.0	---	---	---
3	22.5	21.4	21.7	28.0	26.7	27.2	27.4	26.5	26.9	---	---	---
4	21.5	21.2	21.4	27.8	26.5	27.2	27.6	26.7	27.0	---	---	---
5	21.4	20.8	21.1	27.0	26.3	26.6	27.0	26.3	26.5	---	---	---
6	21.9	21.2	21.4	27.6	25.9	26.7	26.7	26.1	26.3	---	---	---
7	20.8	20.6	20.8	27.2	26.1	26.6	27.0	25.7	26.3	---	---	---
8	20.8	20.4	20.6	27.6	26.1	26.8	26.8	25.9	26.4	---	---	---
9	20.6	20.4	20.4	26.7	25.9	26.5	25.9	25.7	25.8	---	---	---
10	22.3	20.2	21.2	27.4	26.1	26.7	26.3	25.5	25.9	---	---	---
11	22.7	21.4	21.9	28.0	25.9	26.9	27.0	25.5	26.2	---	---	---
12	22.7	21.7	22.2	27.6	26.5	27.0	26.7	25.9	26.3	---	---	---
13	22.9	21.9	22.4	28.4	26.7	27.4	26.3	25.9	26.1	---	---	---
14	22.3	21.5	21.8	28.8	27.0	27.8	27.2	25.7	26.3	---	---	---
15	22.1	21.5	21.8	28.8	27.0	27.8	27.8	26.1	26.9	---	---	---
16	23.3	21.9	22.8	28.2	27.0	27.4	28.8	26.7	27.7	---	---	---
17	23.5	22.7	23.1	28.2	26.8	27.5	29.4	27.8	28.3	---	---	---
18	23.5	22.9	23.2	28.4	27.2	27.7	28.4	27.4	27.8	---	---	---
19	24.5	22.7	23.4	28.4	27.0	27.7	28.6	27.2	27.9	---	---	---
20	25.7	23.7	24.6	29.0	27.2	28.0	28.0	27.4	27.5	---	---	---
21	26.3	24.3	25.3	29.2	27.8	28.3	27.8	26.8	27.2	---	---	---
22	26.3	24.7	25.4	28.4	27.6	27.9	27.2	26.5	26.8	---	---	---
23	28.2	24.5	26.1	28.6	27.4	27.9	27.2	25.9	26.4	---	---	---
24	28.2	26.1	27.2	28.0	27.4	27.7	28.0	25.3	26.4	---	---	---
25	28.4	26.5	27.2	28.4	27.2	27.6	27.0	25.5	26.2	---	---	---
26	27.0	26.3	26.7	29.0	27.2	27.9	---	---	---	---	---	---
27	27.8	25.9	26.8	29.0	27.6	28.3	---	---	---	---	---	---
28	26.3	25.9	26.2	28.8	27.6	28.0	---	---	---	---	---	---
29	27.0	25.9	26.4	28.2	27.4	27.7	---	---	---	---	---	---
30	26.3	26.1	26.2	27.8	27.0	27.3	---	---	---	---	---	---
31	---	---	---	27.8	26.7	27.1	---	---	---	---	---	---
MONTH	28.4	20.2	23.4	29.2	25.7	27.4	29.4	25.3	26.8	---	---	---
YEAR	29.4	16.8	24.1									

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

PUMP NUMBER 1

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.1	5.2	6.2	4.9	4.6	4.8	---	---	---	---	---	---
2	6.8	6.7	6.7	4.6	3.8	4.2	---	---	---	---	---	---
3	6.5	6.3	6.4	7.7	6.7	7.3	---	---	---	---	---	---
4	6.3	5.8	6.1	7.8	7.6	7.7	---	---	---	---	---	---
5	5.7	4.9	5.2	8.0	7.9	7.9	---	---	---	---	---	---
6	6.1	4.9	5.5	8.1	7.9	8.0	---	---	---	---	---	---
7	6.4	6.1	6.2	8.3	7.9	8.0	---	---	---	---	---	---
8	6.3	5.7	6.0	7.8	7.6	7.7	---	---	---	---	---	---
9	6.1	5.7	5.9	8.3	7.9	8.2	---	---	---	---	---	---
10	5.8	4.7	5.5	8.9	8.1	8.6	---	---	---	---	---	---
11	5.4	4.8	5.1	9.0	8.8	8.9	---	---	---	---	---	---
12	5.2	4.9	5.0	9.0	8.9	8.9	---	---	---	---	---	---
13	5.7	5.1	5.4	9.0	8.9	8.9	---	---	---	---	---	---
14	6.0	5.4	5.7	9.2	8.8	9.0	---	---	---	---	---	---
15	6.1	6.1	6.1	9.3	8.9	9.0	---	---	---	---	---	---
16	6.2	6.0	6.1	9.2	8.9	9.0	---	---	---	---	---	---
17	6.2	5.8	6.0	8.9	8.9	8.9	---	---	---	---	---	---
18	5.6	5.2	5.5	8.9	8.7	8.8	---	---	---	---	---	---
19	5.0	4.7	4.9	---	---	---	---	---	---	---	---	---
20	4.7	4.2	4.5	---	---	---	---	---	---	---	---	---
21	6.6	5.5	5.9	---	---	---	---	---	---	---	---	---
22	6.9	6.9	6.9	---	---	---	---	---	---	---	---	---
23	7.0	6.6	6.8	---	---	---	---	---	---	---	---	---
24	6.4	6.2	6.3	---	---	---	---	---	---	---	---	---
25	6.6	5.7	6.0	---	---	---	---	---	---	---	---	---
26	6.6	6.3	6.4	---	---	---	---	---	---	---	---	---
27	6.7	6.3	6.5	---	---	---	---	---	---	---	---	---
28	6.8	6.4	6.5	---	---	---	---	---	---	---	---	---
29	6.2	6.0	6.1	---	---	---	---	---	---	---	---	---
30	6.0	5.6	5.7	---	---	---	---	---	---	---	---	---
31	5.5	5.1	5.3	---	---	---	---	---	---	---	---	---
MONTH	7.1	4.2	5.9	9.3	3.8	8.0	---	---	---	---	---	---

CUMBERLAND RIVER BASIN

03400798 MARTINS FORK LAKE AT MARTINS FORK DAM NEAR SMITH, KY--Continued.

OXYGEN DISSOLVED (MGL), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

PUMP NUMBER 2

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.1	5.1	6.2	6.8	6.4	6.5	---	---	---	---	---	---
2	6.9	6.2	6.7	7.5	6.0	6.9	---	---	---	---	---	---
3	6.5	5.9	6.2	7.6	7.2	7.6	---	---	---	---	---	---
4	6.7	6.4	6.6	7.6	7.5	7.6	---	---	---	---	---	---
5	6.5	6.0	6.3	7.9	7.6	7.7	---	---	---	---	---	---
6	6.5	6.0	6.2	7.9	7.6	7.8	---	---	---	---	---	---
7	6.2	6.0	6.1	7.7	7.2	7.6	---	---	---	---	---	---
8	6.1	5.8	6.0	8.1	7.6	7.8	---	---	---	---	---	---
9	6.0	5.5	5.8	8.4	8.2	8.3	---	---	---	---	---	---
10	6.0	5.2	5.6	8.5	8.2	8.3	---	---	---	---	---	---
11	5.7	5.4	5.6	8.9	8.5	8.6	---	---	---	---	---	---
12	6.1	4.3	5.5	9.0	8.7	8.8	---	---	---	---	---	---
13	5.9	4.4	5.4	8.9	8.6	8.8	---	---	---	---	---	---
14	5.9	5.1	5.6	8.9	8.5	8.8	---	---	---	---	---	---
15	5.8	4.3	5.0	9.2	8.8	8.9	---	---	---	---	---	---
16	5.8	5.1	5.3	9.0	8.8	8.9	---	---	---	---	---	---
17	6.2	5.2	5.6	8.9	8.6	8.8	---	---	---	---	---	---
18	6.2	5.7	5.9	8.8	8.7	8.7	---	---	---	---	---	---
19	6.9	5.7	6.3	---	---	---	---	---	---	---	---	---
20	7.1	4.9	6.2	---	---	---	---	---	---	---	---	---
21	6.9	4.7	6.3	---	---	---	---	---	---	---	---	---
22	7.2	6.5	6.8	---	---	---	---	---	---	---	---	---
23	8.0	7.1	7.4	---	---	---	---	---	---	---	---	---
24	8.0	7.6	7.8	---	---	---	---	---	---	---	---	---
25	7.7	6.9	7.3	---	---	---	---	---	---	---	---	---
26	7.4	6.8	7.1	---	---	---	---	---	---	---	---	---
27	6.9	6.6	6.7	---	---	---	---	---	---	---	---	---
28	6.7	5.8	6.4	---	---	---	---	---	---	---	---	---
29	6.8	5.9	6.3	---	---	---	---	---	---	---	---	---
30	8.6	6.8	7.9	---	---	---	---	---	---	---	---	---
31	7.1	6.6	6.8	---	---	---	---	---	---	---	---	---
MONTH	8.6	4.3	6.3	9.2	6.0	8.1	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	10.1	9.9	10.0	9.4	8.9	9.2
2	---	---	---	---	---	---	10.3	10.0	10.2	10.0	9.1	9.4
3	---	---	---	---	---	---	10.5	9.8	10.0	9.5	9.2	9.4
4	---	---	---	---	---	---	11.1	10.3	10.7	9.9	9.4	9.6
5	---	---	---	---	---	---	11.8	11.2	11.4	9.7	9.4	9.5
6	---	---	---	---	---	---	12.1	11.5	11.8	9.6	9.4	9.5
7	---	---	---	---	---	---	12.1	11.6	11.9	9.7	9.5	9.6
8	---	---	---	---	---	---	12.4	11.5	12.0	9.7	9.5	9.6
9	---	---	---	---	---	---	12.2	11.8	12.1	9.6	9.5	9.6
10	---	---	---	---	---	---	12.2	11.9	12.0	9.5	9.3	9.4
11	---	---	---	---	---	---	12.0	11.2	11.6	9.8	9.3	9.4
12	---	---	---	---	---	---	12.1	11.4	11.8	9.8	8.8	9.3
13	---	---	---	---	---	---	11.9	11.2	11.4	9.3	8.7	9.0
14	---	---	---	---	---	---	11.4	10.9	11.1	8.9	8.6	8.7
15	---	---	---	---	---	---	10.9	10.7	10.8	9.1	8.5	8.9
16	---	---	---	---	---	---	10.6	10.3	10.4	8.8	8.7	8.7
17	---	---	---	---	---	---	10.3	9.8	10.1	8.7	8.0	8.5
18	---	---	---	11.8	10.6	11.2	10.1	9.8	10.0	8.7	8.0	8.4
19	---	---	---	13.9	12.5	13.1	9.8	9.4	9.6	8.5	8.1	8.3
20	---	---	---	14.9	14.2	14.4	9.4	9.1	9.2	8.4	7.9	8.2
21	---	---	---	14.9	13.2	14.4	9.7	9.1	9.3	8.3	7.4	7.8
22	---	---	---	13.0	11.4	12.4	9.6	9.4	9.5	8.3	7.7	8.0
23	---	---	---	11.7	10.6	11.4	---	---	---	8.1	7.8	7.9
24	---	---	---	11.3	11.0	11.1	---	---	---	8.0	7.5	7.7
25	---	---	---	11.1	9.9	10.6	---	---	---	7.8	7.1	7.5
26	---	---	---	10.8	10.5	10.6	---	---	---	7.8	7.3	7.6
27	---	---	---	10.6	10.1	10.5	---	---	---	8.4	7.7	8.0
28	---	---	---	10.4	10.0	10.2	---	---	---	8.2	7.4	7.9
29	---	---	---	10.4	9.2	10.0	8.2	8.2	8.2	7.9	7.3	7.7
30	---	---	---	10.3	9.8	10.1	8.7	8.5	8.6	7.6	7.3	7.4
31	---	---	---	10.3	9.6	10.0	---	---	---	7.5	7.1	7.3
MONTH	---	---	---	14.9	9.2	11.4	12.4	8.2	10.6	10.0	7.1	8.6

CUMBERLAND RIVER BASIN

03400798 MARTINS FORK LAKE AT MARTINS FORK DAM NEAR SMITH, KY--Continued.

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

PUMP NUMBER 2

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.5	6.7	7.1	4.9	4.1	4.6	1.0	.5	.7	.3	.2	.3
2	7.2	6.8	7.0	5.1	3.8	4.6	.7	.5	.6	.3	.2	.2
3	7.0	6.7	6.8	4.8	3.0	4.2	.8	.6	.7	.3	.1	.2
4	6.9	6.5	6.7	4.1	3.2	3.7	.7	.5	.6	.3	.1	.2
5	6.8	6.6	6.7	4.4	3.4	4.0	1.1	.5	.7	.4	.2	.3
6	6.7	6.5	6.6	4.3	3.5	3.9	.7	.6	.7	.4	.2	.3
7	6.5	6.2	6.4	4.5	3.3	3.7	.7	.6	.6	.4	.3	.3
8	6.7	6.3	6.5	4.1	3.4	3.6	.7	.6	.6	.4	.3	.3
9	7.5	6.6	6.9	3.7	2.9	3.3	.8	.7	.7	.3	.2	.2
10	8.0	7.5	7.7	4.3	3.0	3.6	.7	.6	.7	.2	.2	.2
11	8.0	7.6	7.8	3.8	2.3	3.1	.7	.6	.7	.2	.2	.2
12	7.7	7.4	7.6	3.8	2.9	3.2	.7	.6	.6	.3	.2	.2
13	7.7	7.1	7.4	3.5	2.8	3.0	.6	.5	.6	.3	.2	.2
14	7.4	6.7	6.9	3.6	2.5	3.0	.6	.5	.5	.3	.2	.2
15	7.2	6.8	7.0	3.7	1.4	2.6	.6	.3	.4	.2	.2	.2
16	8.0	7.5	7.8	2.4	1.5	1.9	.6	.5	.6	---	---	---
17	8.1	7.6	7.8	2.1	1.3	1.7	.5	.3	.4	---	---	---
18	7.7	7.5	7.6	2.3	1.1	1.7	.4	.3	.4	---	---	---
19	7.6	7.4	7.5	1.7	1.3	1.6	.4	.3	.4	---	---	---
20	7.4	7.2	7.3	1.5	1.0	1.4	.4	.3	.4	---	---	---
21	7.6	7.3	7.4	2.1	.9	1.4	.4	.3	.3	---	---	---
22	7.5	7.2	7.3	2.5	.8	1.6	.3	.3	.3	---	---	---
23	7.3	6.4	6.8	1.6	.9	1.2	.4	.3	.4	---	---	---
24	6.5	5.7	6.2	1.5	.7	1.1	.4	.4	.4	---	---	---
25	6.7	5.1	6.0	1.2	.9	1.1	.4	.4	.4	---	---	---
26	6.9	5.4	6.1	1.2	.8	1.0	.4	.3	.4	---	---	---
27	6.4	5.9	6.2	1.1	.9	1.0	.2	.2	.2	---	---	---
28	6.4	5.7	6.0	1.4	.8	1.0	.3	.2	.2	---	---	---
29	6.3	5.7	6.0	1.6	.7	1.0	.3	.2	.2	---	---	---
30	6.3	4.8	5.5	1.2	.6	.8	.2	.2	.2	---	---	---
31	---	---	---	.8	.5	.7	.3	.2	.3	---	---	---
MONTH	8.1	4.8	6.9	5.1	.5	2.4	1.1	.2	.5	.4	.1	.2
YEAR	14.9	.1	5.9									

PUMP NUMBER 3

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.1	1.3	3.7	7.9	7.6	7.8	---	---	---	---	---	---
2	6.0	3.8	5.1	7.6	6.8	7.4	---	---	---	---	---	---
3	5.8	5.1	5.4	7.5	7.2	7.4	---	---	---	---	---	---
4	6.4	5.8	6.1	7.9	7.5	7.7	---	---	---	---	---	---
5	7.2	6.9	7.0	7.8	7.4	7.6	---	---	---	---	---	---
6	7.4	7.1	7.2	7.8	7.5	7.7	---	---	---	---	---	---
7	7.7	7.1	7.3	8.3	7.9	8.0	---	---	---	---	---	---
8	7.6	6.8	7.2	8.3	7.9	8.0	---	---	---	---	---	---
9	7.6	7.3	7.5	8.3	8.1	8.2	---	---	---	---	---	---
10	7.6	7.3	7.5	8.5	8.2	8.3	---	---	---	---	---	---
11	7.6	7.2	7.3	8.6	8.5	8.6	---	---	---	---	---	---
12	7.6	6.9	7.2	8.8	8.6	8.7	---	---	---	---	---	---
13	7.6	6.8	7.2	8.9	8.7	8.8	---	---	---	---	---	---
14	7.0	6.0	6.4	8.8	8.6	8.7	---	---	---	---	---	---
15	6.8	6.2	6.6	9.1	8.7	8.9	---	---	---	---	---	---
16	8.5	5.9	7.0	9.1	8.9	9.0	---	---	---	---	---	---
17	8.7	5.5	6.7	9.0	8.9	9.0	---	---	---	---	---	---
18	8.0	6.1	7.2	8.9	8.8	8.9	---	---	---	---	---	---
19	7.9	7.3	7.6	---	---	---	---	---	---	---	---	---
20	7.8	6.5	7.4	---	---	---	---	---	---	---	---	---
21	7.2	6.5	6.8	---	---	---	---	---	---	---	---	---
22	7.4	6.9	7.2	---	---	---	---	---	---	---	---	---
23	8.0	7.3	7.7	---	---	---	---	---	---	---	---	---
24	8.3	7.9	8.1	---	---	---	---	---	---	---	---	---
25	8.2	7.3	7.7	---	---	---	---	---	---	---	---	---
26	8.0	7.2	7.7	---	---	---	---	---	---	---	---	---
27	8.4	8.1	8.3	---	---	---	---	---	---	---	---	---
28	8.4	7.0	7.6	---	---	---	---	---	---	---	---	---
29	9.0	7.0	8.0	---	---	---	---	---	---	---	---	---
30	8.6	8.0	8.3	---	---	---	---	---	---	---	---	---
31	8.3	7.3	7.9	---	---	---	---	---	---	---	---	---
MONTH	9.0	1.3	7.1	9.1	6.8	8.3	---	---	---	---	---	---

CUMBERLAND RIVER BASIN

03400798 MARTINS FORK LAKE AT MARTINS FORK DAM NEAR SMITH, KY--Continued.

OXYGEN DISSOLVED (MGL), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

PUMP NUMBER 4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER											
1	7.2	4.2	5.9	---	---	---	---	---	---	---	---	---
2	7.6	5.7	6.8	---	---	---	---	---	---	---	---	---
3	8.1	6.4	7.5	---	---	---	---	---	---	---	---	---
4	7.2	6.1	6.6	---	---	---	---	---	---	---	---	---
5	7.5	7.1	7.3	---	---	---	---	---	---	---	---	---
6	7.7	7.5	7.6	---	---	---	---	---	---	---	---	---
7	8.0	7.4	7.7	---	---	---	---	---	---	---	---	---
8	7.8	7.2	7.5	---	---	---	---	---	---	---	---	---
9	7.8	7.3	7.6	---	---	---	---	---	---	---	---	---
10	7.8	6.8	7.5	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	8.1	4.2	7.2	---	---	---	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	9.8	9.5	9.6
7	---	---	---	---	---	---	---	---	---	9.7	9.5	9.6
8	---	---	---	---	---	---	---	---	---	9.9	9.6	9.8
9	---	---	---	---	---	---	---	---	---	10.0	9.9	10.0
10	---	---	---	---	---	---	---	---	---	10.0	9.8	9.9
11	---	---	---	---	---	---	---	---	---	10.0	9.8	9.9
12	---	---	---	---	---	---	---	---	---	10.0	9.7	9.8
13	---	---	---	---	---	---	---	---	---	10.0	9.8	9.9
14	---	---	---	---	---	---	---	---	---	10.0	9.7	9.8
15	---	---	---	---	---	---	---	---	---	10.0	9.7	9.8
16	---	---	---	---	---	---	---	---	---	9.9	9.8	9.8
17	---	---	---	---	---	---	---	---	---	9.9	9.7	9.8
18	---	---	---	---	---	---	---	---	---	9.7	9.5	9.6
19	---	---	---	---	---	---	---	---	---	9.5	9.4	9.5
20	---	---	---	---	---	---	---	---	---	9.6	9.1	9.4
21	---	---	---	---	---	---	---	---	---	9.7	9.2	9.4
22	---	---	---	---	---	---	---	---	---	9.5	9.3	9.4
23	---	---	---	---	---	---	---	---	---	9.4	8.8	9.0
24	---	---	---	---	---	---	---	---	---	9.2	8.8	9.0
25	---	---	---	---	---	---	---	---	---	9.0	8.6	8.7
26	---	---	---	---	---	---	---	---	---	8.8	8.3	8.5
27	---	---	---	---	---	---	---	---	---	8.7	8.4	8.6
28	---	---	---	---	---	---	---	---	---	9.0	8.7	8.8
29	---	---	---	---	---	---	---	---	---	8.6	8.4	8.4
30	---	---	---	---	---	---	---	---	---	8.5	8.3	8.4
31	---	---	---	---	---	---	---	---	---	8.8	7.9	8.3
MONTH	---	---	---	---	---	---	---	---	---	10.0	7.9	9.3

CUMBERLAND RIVER BASIN

03400800 MARTINS FORK NEAR SMITH, KY

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

DRAINAGE AREA.--55.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1968-71, and annual maximums, water years 1968-70. April 1971 to current year.
GAGE.--Water-stage recorder. Datum of gage is 1,259.00 ft above sea level. July 25, 1967 to Apr. 9, 1971, crest-stage gage at site 30 ft downstream at same datum, and Apr. 10, 1971 to Sept. 30, 1977, water-stage recorder at site 0.8 mi downstream at same datum.

REMARKS.--Estimated daily discharges. Oct. 1, 2. Records good except for period of estimated record, which is fair. Flow regulated by Martins Fork Dam (station 03400798) beginning January 1979.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	243	94	294	176	367	235	77	216	107	12	11	11
2	237	92	461	176	360	242	65	271	175	12	11	11
3	235	91	582	138	316	347	33	271	214	28	11	11
4	205	91	562	110	232	522	11	272	219	44	11	11
5	165	89	547	113	239	562	11	271	339	44	11	11
6	164	87	532	192	245	571	11	269	270	44	11	11
7	161	86	516	251	245	571	11	216	111	26	11	11
8	132	234	498	249	244	561	11	129	110	11	11	11
9	64	339	482	247	243	550	11	118	151	11	11	11
10	49	337	469	224	241	482	11	109	182	11	11	11
11	77	333	454	195	241	412	11	109	123	11	11	11
12	50	327	401	195	238	404	11	54	59	11	11	11
13	50	320	311	195	233	396	11	15	60	11	11	11
14	50	312	265	193	230	389	11	41	62	11	11	11
15	43	284	262	191	226	384	11	66	218	11	11	11
16	35	248	260	191	221	379	11	65	356	11	11	11
17	36	243	258	170	216	371	11	65	346	11	11	11
18	40	238	202	121	144	317	11	65	238	11	11	11
19	42	239	150	121	39	267	11	65	128	11	11	11
20	42	240	122	121	18	272	11	65	164	11	11	11
21	58	242	92	121	18	346	11	65	227	11	11	11
22	74	247	92	121	19	400	11	65	221	11	11	11
23	74	248	79	121	19	391	12	43	113	11	11	11
24	74	248	70	133	90	316	12	24	12	11	11	11
25	73	246	70	152	145	184	12	24	12	11	11	11
26	72	243	96	155	145	159	12	67	12	11	11	11
27	71	242	154	238	148	157	12	161	12	11	11	11
28	47	240	177	308	195	135	45	198	12	11	11	11
29	52	238	176	338	---	100	140	197	12	11	11	11
30	94	248	176	378	---	100	181	154	12	11	11	11
31	94	---	176	373	---	85	---	106	---	11	11	---
TOTAL	2903	6766	8986	6007	5317	10607	810	3856	4277	474	341	330
MEAN	93.6	226	290	194	190	342	27.0	124	143	15.3	11.0	11.0
MAX	243	339	582	378	367	571	181	272	356	44	11	11
MIN	35	86	70	110	18	85	11	15	12	11	11	11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1997, BY WATER YEAR (WY)

	MEAN	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	58.5	115	156	178	200	191	98.4	134	71.7	25.9	27.7	27.7
MAX	181	226	452	357	402	342	174	322	267	75.3	117	117
(WY)	1990	1997	1992	1982	1990	1997	1983	1983	1989	1990	1996	1989
MIN	20.2	28.9	16.4	10.1	81.6	33.5	12.4	36.7	12.5	9.34	9.43	9.49
(WY)	1981	1981	1981	1981	1988	1988	1986	1987	1988	1988	1988	1984

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1980 - 1997	
ANNUAL TOTAL	57826.0		50674			
ANNUAL MEAN	158		139		107	
HIGHEST ANNUAL MEAN					139	
LOWEST ANNUAL MEAN					58.0	
HIGHEST DAILY MEAN	582	Dec 3	582	Dec 3	1310	Dec 4 1991
LOWEST DAILY MEAN	5.4	Aug 31	11	Apr 4	5.4	Aug 31 1996
ANNUAL SEVEN-DAY MINIMUM	8.5	Aug 29	11	Apr 4	6.7	Jul 16 1980
INSTANTANEOUS PEAK FLOW			601	Dec 2	9000	Apr 4 1977
INSTANTANEOUS PEAK STAGE			11.97	Dec 2	24.24	Apr 4 1977
INSTANTANEOUS LOW FLOW					.10	Oct 30 1978
10 PERCENT EXCEEDS	378		339		289	
50 PERCENT EXCEEDS	112		92		50	
90 PERCENT EXCEEDS	16		11		11	

CUMBERLAND RIVER BASIN

03400800 MARTINS FORK NEAR SMITH, KY--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1971 to current year.

pH: December 1979 to current year.

WATER TEMPERATURE: October 1971 to current year.

DISSOLVED OXYGEN: December 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1971.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

pH: Maximum, 8.2 units, July 2, 1980; minimum, 5.9 units, Jan. 6, 7, 1996.

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

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 154 microsiemens, Sept. 29; minimum, 77 microsiemens, Dec. 1.

pH: Maximum, 7.5 units, Jun. 3; minimum, 6.6 units, Mar. 10.

WATER TEMPERATURE: Maximum, 31.0°C, Aug. 17; minimum, 2.5°C, Jan. 18,19.

DISSOLVED OXYGEN: Maximum, 12.5 mg/L, Jan. 18-20; minimum, 5.6 mg/L, Aug. 12,13.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	125	122	124	139	135	138	124	77	104	113	105	109
2	125	118	124	139	135	137	116	81	101	117	105	110
3	133	125	128	135	131	135	107	80	96	117	101	110
4	133	122	127	135	131	133	115	99	107	117	101	109
5	125	118	124	132	128	129	99	87	94	117	101	109
6	125	122	125	128	125	126	95	87	91	117	109	113
7	125	118	123	128	125	128	99	95	96	117	105	111
8	125	118	123	128	109	123	99	91	95	109	105	106
9	129	122	128	117	105	111	95	91	95	117	105	110
10	129	122	124	117	98	104	95	95	95	109	105	106
11	130	122	126	102	94	98	95	95	95	109	105	106
12	130	126	129	102	98	100	99	95	96	110	109	110
13	130	126	129	110	98	108	99	99	99	110	106	109
14	134	126	130	114	110	112	99	99	99	106	106	106
15	134	130	133	119	114	115	103	99	102	106	102	103
16	134	134	134	115	115	115	103	99	101	106	102	103
17	138	134	137	119	115	118	104	99	101	110	102	106
18	138	138	138	128	119	124	104	100	101	110	110	110
19	138	138	138	128	128	128	100	100	100	118	110	112
20	138	138	138	128	116	123	104	100	100	118	114	116
21	142	138	141	131	124	127	104	100	102	123	114	119
22	141	137	141	135	120	125	104	104	104	119	107	112
23	141	137	140	120	116	119	104	104	104	111	107	110
24	142	137	140	131	120	125	104	104	104	115	111	111
25	142	138	141	131	116	123	104	104	104	111	107	108
26	138	138	138	120	116	119	104	104	104	115	107	111
27	138	138	138	120	120	120	105	104	104	107	87	98
28	138	138	138	120	120	120	105	101	104	107	91	99
29	139	134	138	120	120	120	101	97	99	103	95	101
30	139	139	139	120	116	119	109	101	104	99	84	93
31	139	135	139	---	---	---	109	105	109	104	84	91
MONTH	142	118	133	139	94	121	124	77	100	123	84	107

CUMBERLAND RIVER BASIN

03400800 MARTINS FORK NEAR SMITH, KY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.5	19.8	20.1	16.4	15.8	16.2	10.0	8.2	8.9	6.6	6.2	6.5
2	20.3	19.9	20.1	16.0	15.2	15.6	9.8	8.2	8.8	8.8	6.6	7.5
3	20.3	19.8	20.1	15.4	14.4	15.0	9.7	8.3	8.9	10.0	6.8	7.8
4	20.4	19.6	19.8	14.8	14.0	14.4	8.9	8.7	8.8	11.0	7.0	8.6
5	20.0	19.4	19.6	14.2	13.8	14.0	8.9	8.7	8.7	11.1	8.0	9.7
6	19.8	19.2	19.5	14.0	13.6	13.8	8.9	8.5	8.6	9.8	7.6	8.6
7	19.7	19.1	19.4	14.8	14.0	14.3	8.9	8.5	8.7	9.2	8.6	8.9
8	19.9	19.1	19.3	14.4	12.8	13.7	8.5	8.1	8.3	8.6	8.2	8.4
9	19.3	17.9	19.0	13.4	12.8	13.2	8.1	7.9	8.0	8.2	7.8	8.1
10	18.7	17.7	18.2	12.8	12.2	12.6	8.1	7.5	7.8	7.8	6.8	7.3
11	19.0	17.8	18.2	12.2	11.3	11.8	8.3	7.9	8.1	6.8	6.2	6.4
12	18.8	17.6	18.1	11.3	10.8	11.1	8.7	8.3	8.5	6.2	5.7	6.0
13	18.8	17.6	18.0	10.8	10.6	10.7	8.3	7.9	8.2	5.7	4.7	5.3
14	18.8	17.4	18.1	10.6	10.2	10.4	8.5	7.9	8.1	4.7	4.1	4.5
15	18.9	17.7	18.2	10.2	9.8	9.9	8.5	7.9	8.2	4.3	3.9	4.1
16	18.9	17.5	18.1	10.0	9.6	9.8	8.3	8.1	8.2	4.3	3.5	4.0
17	18.7	17.5	18.0	9.8	9.4	9.5	8.1	7.8	8.0	3.5	3.1	3.3
18	17.9	16.9	17.5	10.0	9.2	9.6	7.8	7.4	7.6	3.1	2.5	2.8
19	17.8	17.0	17.0	9.8	9.2	9.4	7.4	6.2	7.0	3.1	2.5	2.8
20	17.6	16.8	16.8	10.2	9.2	9.7	6.6	6.0	6.4	3.7	2.9	3.3
21	16.8	16.1	16.4	9.8	9.4	9.7	6.2	5.8	6.0	3.9	3.1	3.5
22	17.2	16.3	16.8	9.8	9.4	9.6	5.8	5.7	5.7	3.7	3.5	3.6
23	17.2	16.5	16.9	9.6	9.0	9.4	5.8	5.3	5.6	4.1	3.5	3.9
24	17.2	16.1	16.6	9.6	9.0	9.3	5.8	5.5	5.7	4.5	4.1	4.2
25	16.5	15.9	16.1	9.0	9.0	9.0	5.5	5.1	5.3	4.7	4.5	4.5
26	16.3	15.9	16.1	9.6	8.6	9.1	5.3	4.9	5.1	4.7	4.3	4.5
27	16.5	16.1	16.2	8.6	8.2	8.5	5.1	4.9	5.0	5.3	4.7	4.9
28	16.5	16.1	16.3	8.6	8.0	8.3	5.7	5.1	5.4	5.3	4.9	5.1
29	17.1	16.2	16.5	8.2	8.0	8.1	6.8	5.7	6.3	5.8	4.7	5.1
30	18.1	16.4	17.4	8.2	8.0	8.1	6.8	6.4	6.7	6.0	5.5	5.7
31	17.1	16.2	16.6	---	---	---	6.4	6.2	6.4	5.8	5.5	5.6
MONTH	20.5	15.9	17.9	16.4	8.0	11.1	10.0	4.9	7.3	11.1	2.5	5.6
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.2	5.5	5.8	11.1	9.0	9.8	13.3	11.9	12.7	13.5	12.7	13.1
2	6.0	5.7	5.8	11.5	10.0	10.1	14.1	12.1	13.0	14.1	12.9	13.4
3	5.8	5.7	5.8	11.9	9.4	10.2	15.3	12.1	13.2	13.9	13.3	13.6
4	6.8	5.8	6.0	11.1	10.6	10.9	14.6	11.2	12.8	14.1	13.7	13.8
5	7.2	5.7	6.3	11.5	10.8	11.0	15.0	12.2	13.3	14.5	13.3	13.9
6	6.4	5.8	6.1	11.1	10.2	10.7	14.6	12.6	13.2	14.9	13.7	14.3
7	6.8	6.2	6.6	11.0	10.4	10.7	14.8	11.6	13.0	14.7	14.1	14.4
8	6.4	6.0	6.3	11.1	10.4	10.6	14.8	10.9	12.6	14.7	14.1	14.2
9	6.6	6.0	6.5	11.1	10.2	10.6	14.2	11.2	12.5	14.7	14.1	14.4
10	6.6	6.4	6.6	11.0	10.2	10.6	14.6	10.7	12.3	15.3	14.1	14.5
11	6.4	6.2	6.3	10.8	10.4	10.6	15.7	11.2	13.1	15.3	14.1	14.7
12	6.2	5.8	6.0	11.1	10.4	10.7	14.1	12.7	13.1	17.6	14.3	15.4
13	6.0	5.8	6.0	11.0	10.6	10.8	12.9	11.3	12.1	15.9	13.9	14.5
14	5.8	5.8	5.8	12.7	10.8	11.4	14.5	10.9	12.4	15.5	13.7	14.5
15	6.0	5.7	5.8	11.4	10.8	11.0	15.3	11.1	12.9	16.1	14.7	15.2
16	6.0	5.5	5.7	11.6	10.9	11.1	15.7	11.3	13.2	16.1	14.5	15.2
17	6.4	5.3	5.9	11.2	10.7	10.9	13.5	11.5	12.4	16.3	14.7	15.3
18	6.8	6.0	6.4	11.1	10.3	10.7	14.9	11.1	12.6	16.6	15.1	15.7
19	8.2	6.2	6.9	10.3	10.1	10.2	12.4	11.6	12.0	16.6	15.5	15.8
20	8.6	6.8	7.6	10.9	10.1	10.4	15.8	12.0	13.2	16.3	15.5	15.8
21	9.0	7.4	8.2	12.0	10.1	10.8	13.6	12.2	12.8	16.6	15.3	15.8
22	9.2	8.4	8.9	11.6	10.3	10.8	15.5	12.4	13.5	16.8	15.1	15.8
23	9.4	7.6	8.3	12.4	10.9	11.4	12.9	11.9	12.3	18.2	15.3	16.3
24	8.4	7.2	7.8	11.8	10.9	11.4	14.3	11.7	12.7	17.0	15.3	16.0
25	8.6	7.6	8.1	14.4	11.1	12.5	14.9	11.5	13.0	16.8	15.7	16.1
26	8.6	7.8	8.2	14.0	11.7	12.5	14.5	11.5	12.8	17.2	15.9	16.3
27	10.0	8.4	9.3	12.9	11.7	12.3	13.1	12.5	12.7	16.8	16.3	16.6
28	9.8	9.0	9.1	12.3	11.7	12.1	12.7	12.3	12.6	17.0	16.4	16.7
29	---	---	---	13.5	11.9	12.4	13.1	12.3	12.7	17.2	16.4	16.8
30	---	---	---	13.1	11.9	12.5	13.5	12.7	13.0	17.2	16.4	16.8
31	---	---	---	12.9	11.9	12.4	---	---	---	17.2	16.4	16.8
MONTH	10.0	5.3	6.9	14.4	9.0	11.1	15.8	10.7	12.8	18.2	12.7	15.2

CUMBERLAND RIVER BASIN

03400800 MARTINS FORK NEAR SMITH, KY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.2	16.6	16.9	24.5	21.2	22.3	28.4	24.3	25.9	27.2	23.5	25.0
2	17.8	16.6	17.2	24.9	21.5	22.8	28.8	24.5	26.1	27.2	23.7	25.1
3	19.4	17.2	18.2	25.1	21.7	23.3	28.0	24.7	26.0	24.9	22.9	24.2
4	19.4	18.8	19.2	26.1	23.3	24.2	28.2	25.1	26.3	26.1	22.1	23.7
5	19.2	18.6	18.8	25.5	23.7	24.2	28.0	24.7	25.9	26.3	22.1	23.6
6	20.0	18.8	19.1	25.7	23.5	24.3	27.6	23.9	25.4	25.7	22.3	23.7
7	19.2	18.8	19.0	26.3	22.7	24.4	28.2	24.3	26.0	26.1	22.9	24.1
8	19.2	18.8	18.9	26.7	22.5	24.1	28.8	24.9	26.4	26.7	22.9	24.2
9	18.8	18.4	18.6	25.7	22.5	23.9	26.7	25.3	25.9	23.7	23.1	23.4
10	19.4	18.2	18.6	26.7	22.5	24.1	27.6	25.1	26.0	24.2	22.8	23.4
11	19.8	18.6	19.0	26.7	22.7	24.2	28.2	25.3	26.4	24.2	22.4	23.2
12	19.8	18.8	19.2	25.9	23.1	24.2	27.4	25.1	26.1	25.4	22.2	23.3
13	21.9	18.4	19.7	26.7	23.3	24.6	26.5	24.3	25.2	25.5	21.9	23.2
14	19.6	18.4	19.2	27.4	23.3	24.8	27.6	24.5	25.8	24.9	22.3	23.1
15	19.6	18.6	19.1	27.6	23.3	24.9	27.4	24.5	26.0	25.3	22.1	23.2
16	20.4	19.2	19.7	26.8	23.5	24.4	30.6	26.5	28.2	25.8	22.2	23.4
17	20.4	19.6	19.8	---	---	---	31.0	27.0	28.6	25.0	22.4	23.3
18	21.5	19.8	20.5	---	---	---	30.0	27.2	28.2	25.7	22.7	23.6
19	21.7	20.0	20.5	---	---	---	30.0	26.8	28.2	25.5	22.3	23.6
20	21.4	18.6	19.9	---	---	---	28.6	27.0	27.7	23.8	22.5	22.9
21	19.6	18.8	19.1	28.0	24.9	26.7	29.4	24.3	27.1	24.6	21.8	23.0
22	19.8	19.0	19.4	27.4	24.3	25.4	26.1	22.9	24.4	24.2	21.6	22.7
23	25.5	19.4	21.8	28.2	24.7	26.0	26.5	22.7	24.2	22.7	22.1	22.4
24	25.3	21.4	22.7	27.8	25.1	26.0	26.7	22.5	24.2	22.3	21.9	22.1
25	25.5	21.4	22.7	28.2	25.1	26.2	26.1	22.9	24.2	23.4	21.7	22.3
26	24.1	21.2	22.3	29.0	25.5	26.7	25.7	23.1	24.1	24.2	21.4	22.4
27	24.9	21.0	22.3	29.0	25.5	26.9	26.3	23.3	24.4	24.4	21.2	22.5
28	23.9	21.0	22.0	29.2	25.9	27.0	26.5	23.7	24.5	22.5	21.7	22.0
29	23.9	20.8	22.0	28.0	25.9	26.6	26.5	23.1	24.4	23.7	21.1	22.3
30	23.1	21.2	21.8	27.8	25.1	26.2	26.7	22.9	24.3	23.8	20.8	22.1
31	---	---	---	28.6	24.5	26.0	26.5	22.9	24.4	---	---	---
MONTH	25.5	16.6	19.9	29.2	21.2	25.0	31.0	22.5	25.8	27.2	20.8	23.2
YEAR	31.0	2.5	15.1									

OXYGEN DISSOLVED, (MG/L), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.9	8.5	8.7	10.1	9.1	9.2	11.5	10.9	11.2	11.6	11.5	11.5
2	8.6	8.5	8.5	9.4	9.2	9.3	11.3	10.9	11.1	11.5	10.9	11.2
3	8.6	8.6	8.6	9.6	9.4	9.5	11.2	10.8	10.9	11.4	10.7	11.2
4	8.7	8.6	8.7	9.9	9.6	9.7	11.4	10.6	11.1	11.4	10.6	11.1
5	8.8	8.6	8.8	10.0	9.6	9.8	11.2	10.6	10.9	11.1	10.6	10.8
6	8.8	8.7	8.8	10.0	9.7	9.9	11.2	10.6	10.9	11.3	10.9	11.1
7	8.8	8.7	8.8	9.8	9.7	9.7	11.2	10.5	11.0	11.1	11.0	11.0
8	8.8	8.6	8.7	10.0	9.5	9.7	11.1	10.4	10.7	11.1	11.0	11.1
9	8.8	8.4	8.6	9.8	9.7	9.7	10.9	10.3	10.6	11.1	11.0	11.0
10	8.9	8.5	8.7	10.0	9.5	9.8	11.8	10.2	11.0	11.3	11.1	11.2
11	9.0	8.8	8.9	10.1	9.9	10.0	12.0	11.4	11.7	11.6	11.3	11.5
12	8.9	8.7	8.9	10.4	10.0	10.3	11.9	11.5	11.8	11.8	11.6	11.7
13	9.0	8.8	8.9	10.4	10.2	10.3	11.8	11.5	11.6	12.0	11.8	11.9
14	9.0	8.8	8.9	10.5	10.3	10.4	11.5	10.9	11.2	12.1	12.0	12.0
15	9.2	8.6	9.0	10.6	10.2	10.5	11.8	10.8	11.2	12.2	12.0	12.1
16	9.1	8.8	8.9	10.8	10.3	10.6	12.3	10.6	11.4	12.2	11.9	12.1
17	9.1	8.9	9.0	10.7	10.1	10.5	11.6	10.7	11.2	12.4	12.2	12.3
18	9.1	8.9	9.0	10.6	10.2	10.4	11.3	10.3	10.6	12.5	12.3	12.5
19	9.2	9.0	9.1	10.4	10.2	10.3	12.4	10.4	11.4	12.5	12.4	12.4
20	9.3	9.0	9.1	10.4	10.1	10.3	12.2	11.4	11.8	12.5	12.3	12.3
21	9.2	9.1	9.1	10.4	10.3	10.4	11.6	11.1	11.3	12.4	12.2	12.3
22	9.5	9.0	9.2	10.8	10.4	10.5	11.1	10.7	11.0	12.3	12.2	12.3
23	9.3	9.1	9.2	10.8	10.4	10.6	11.1	10.7	10.9	12.3	12.2	12.3
24	9.4	9.2	9.3	10.9	10.4	10.7	12.1	10.7	11.4	12.2	12.1	12.2
25	9.4	9.4	9.4	11.1	10.9	11.0	12.2	11.8	11.9	12.2	12.0	12.1
26	9.5	9.4	9.4	11.0	10.8	10.9	12.3	12.0	12.2	12.3	12.2	12.2
27	9.6	9.4	9.5	11.3	10.8	11.0	12.3	11.9	12.1	12.2	11.9	12.1
28	9.5	9.2	9.4	11.5	10.7	11.0	12.0	11.9	11.9	12.1	11.9	12.0
29	9.4	9.2	9.3	11.4	10.8	11.1	11.9	11.6	11.7	12.1	10.8	11.9
30	9.2	8.7	9.0	11.5	10.1	11.2	11.6	11.6	11.6	11.8	11.6	11.7
31	9.2	8.8	9.0	---	---	---	11.6	11.6	11.6	11.7	11.5	11.6
MONTH	9.6	8.4	9.0	11.5	9.1	10.3	12.4	10.2	11.3	12.5	10.6	11.8

CUMBERLAND RIVER BASIN

03401000 CUMBERLAND RIVER NEAR HARLAN, KY

LOCATION.--Lat 36°50'48", long 83°21'21", Harlan County, Hydrologic Unit 05130101, on left bank 10 ft downstream from bridge on State Highway 840 at Loyall, 1.6 mi upstream from Fourmile Branch, 1.8 mi west of Harlan, 2.3 mi downstream from confluence of Poor and Clover Forks, and at mile 691.9.

DRAINAGE AREA.--374 mi².

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

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

GAGE.--Water-stage recorder. Datum of gage is 1,140.10 ft above sea level. Prior to Nov. 4, 1941, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 1 to Sept. 30. Records poor. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	500	470	14500	1070	1350	2000	780	1250	1000	375	90	41
2	470	495	8000	990	1080	3400	760	1100	970	335	75	39
3	750	350	3000	900	980	10000	680	1200	850	280	72	38
4	650	295	1950	800	1800	6500	600	1300	1100	220	69	38
5	550	265	1700	1500	2500	3800	530	1100	910	200	65	38
6	480	245	1600	1800	2000	4500	515	950	820	185	61	37
7	400	265	1550	1450	1650	3000	485	800	690	175	60	36
8	330	5800	1550	1200	1450	2000	430	700	630	160	60	34
9	275	3600	1350	1500	1300	1650	410	680	610	155	57	38
10	220	1850	1150	1700	1100	1600	385	590	680	195	59	40
11	250	1200	1050	1450	990	1400	365	500	575	170	61	90
12	185	950	1000	1080	880	1150	370	460	485	145	60	80
13	165	800	1600	890	800	1000	385	430	485	140	57	70
14	150	700	1300	780	750	1150	360	400	1700	135	61	48
15	145	660	1050	750	680	1200	330	480	2200	130	70	44
16	140	600	900	1300	620	1100	320	440	1500	120	68	40
17	135	520	900	1400	580	1500	310	400	1080	100	74	38
18	240	1600	820	1100	520	1000	305	375	1350	100	66	37
19	450	2500	730	920	500	3100	300	370	1200	92	62	37
20	330	1850	620	800	440	3200	310	780	1000	88	98	36
21	240	3300	560	700	450	1970	340	750	980	87	130	50
22	200	4500	540	680	600	1650	580	630	800	89	98	48
23	250	2400	550	750	550	1300	800	500	590	160	77	47
24	300	1700	700	1800	520	1020	1400	430	480	250	60	46
25	280	1200	1100	3400	530	880	1000	400	360	180	53	58
26	260	1350	1000	2150	640	850	700	1200	335	130	50	56
27	275	1300	900	1700	1700	770	610	2000	400	110	49	52
28	340	1200	830	4800	2200	720	600	1600	370	95	45	47
29	500	1000	940	4000	---	770	1350	1100	300	120	45	56
30	475	3000	1070	2200	---	740	1300	1000	300	160	42	50
31	485	---	1150	1750	---	800	---	830	---	135	40	---
TOTAL	10420	45965	55660	47310	29160	65720	17610	24745	24750	5016	2034	1409
MEAN	336	1532	1795	1526	1041	2120	587	798	825	162	65.6	47.0
MAX	750	5800	14500	4800	2500	10000	1400	2000	2200	375	130	90
MIN	135	245	540	680	440	720	300	370	300	87	40	34
CFSM	.90	4.10	4.80	4.08	2.78	5.67	1.57	2.13	2.21	.43	.18	.13
IN.	1.04	4.57	5.54	4.71	2.90	6.54	1.75	2.46	2.46	.50	.20	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1997, BY WATER YEAR (WY)

MEAN	181	474	925	1194	1339	1476	1027	750	395	310	220	128
MAX	1129	2004	2704	2767	3259	4148	2771	2003	1789	1414	1202	864
(WY)	1990	1978	1992	1974	1994	1963	1977	1984	1989	1941	1942	1989
MIN	9.00	25.8	43.6	63.5	105	334	211	119	76.0	21.4	40.0	14.3
(WY)	1954	1954	1966	1981	1941	1988	1986	1941	1948	1944	1951	1953

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1940 - 1997	
ANNUAL TOTAL	403300		329799			
ANNUAL MEAN	1102		904		699	
HIGHEST ANNUAL MEAN					1130	
LOWEST ANNUAL MEAN					293	
HIGHEST DAILY MEAN	14500	Dec 1	14500	Dec 1	33900	Apr 4 1977
LOWEST DAILY MEAN	100	Sep 26	34	Sep 8	5.0	Oct 9 1953
ANNUAL SEVEN-DAY MINIMUM	112	Sep 21	37	Sep 3	6.7	Oct 7 1953
INSTANTANEOUS PEAK FLOW			14500	Dec 1	64500	Apr 5 1977
INSTANTANEOUS PEAK STAGE			18.01	Dec 1	30.20	Apr 5 1977
INSTANTANEOUS LOW FLOW			34	Sep 8	3.0	Oct 9 1953
ANNUAL RUNOFF (CFSM)	2.95		2.42		1.87	
ANNUAL RUNOFF (INCHES)	40.11		32.80		25.38	
10 PERCENT EXCEEDS	2100		1800		1580	
50 PERCENT EXCEEDS	770		600		336	
90 PERCENT EXCEEDS	190		59		54	

CUMBERLAND RIVER BASIN
03402000 YELLOW CREEK NEAR MIDDLESBORO, KY

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

DRAINAGE AREA.--60.6 mi². Area at site used prior to Oct. 1970, 58.2 mi² and at site used Oct. 1, 1970 to Sept. 30, 1973, 62.8 mi².

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

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

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

REMARKS.--No estimated daily discharges. Records good. Occasional regulation from Fern Lake.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	76	4670	210	161	449	120	210	204	83	14	7.9
2	59	71	862	179	133	758	112	170	150	64	12	8.6
3	114	59	355	151	116	3800	104	221	115	54	11	7.3
4	68	48	228	130	625	948	96	177	101	45	11	7.3
5	51	40	211	358	570	682	89	140	80	43	11	7.2
6	38	37	201	260	323	845	95	115	70	36	10	7.6
7	33	47	205	193	226	397	80	93	159	32	9.9	7.5
8	32	1510	179	156	214	259	69	82	157	29	9.5	7.7
9	28	378	155	288	165	193	65	78	481	55	10	11
10	26	207	136	249	145	218	62	67	266	61	12	12
11	23	143	125	196	130	167	60	59	164	31	11	9.6
12	22	112	209	154	117	145	86	54	129	28	10	8.9
13	21	93	199	129	109	132	78	61	123	26	11	8.2
14	20	90	158	115	106	158	65	60	368	24	14	7.7
15	19	77	133	115	93	124	61	71	325	21	11	7.6
16	19	68	120	264	83	112	59	48	194	20	9.8	7.5
17	19	64	153	162	77	108	58	41	147	20	9.6	7.8
18	74	506	121	144	72	161	56	37	121	19	9.9	8.0
19	55	470	111	131	67	986	58	35	204	18	11	8.2
20	33	239	100	120	65	423	56	79	407	17	14	9.5
21	28	254	91	107	114	259	76	51	175	17	13	15
22	24	224	88	115	132	189	96	39	120	15	10	9.1
23	46	170	87	119	111	148	92	35	94	16	9.3	8.0
24	38	136	148	938	104	125	86	31	77	25	8.3	21
25	28	143	129	899	97	110	79	57	63	17	8.1	20
26	34	204	120	371	134	120	73	127	61	15	8.1	11
27	32	158	118	239	460	97	75	120	62	15	8.2	9.4
28	87	139	110	1090	481	93	91	186	52	14	7.9	14
29	95	120	223	460	---	142	138	176	61	29	8.1	19
30	70	1810	219	277	---	105	114	190	114	23	8.1	11
31	49	---	238	204	---	133	---	145	---	16	7.9	---
TOTAL	1328	7693	10202	8523	5230	12586	2449	3055	4844	928	318.7	304.6
MEAN	42.8	256	329	275	187	406	81.6	98.5	161	29.9	10.3	10.2
MAX	114	1810	4670	1090	625	3800	138	221	481	83	14	21
MIN	19	37	87	107	65	93	56	31	52	14	7.9	7.2
CFSM	.71	4.23	5.43	4.54	3.08	6.70	1.35	1.63	2.66	.49	.17	.17
IN.	.82	4.72	6.26	5.23	3.21	7.73	1.50	1.88	2.97	.57	.20	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1997, BY WATER YEAR (WY)

MEAN	25.4	80.9	169	214	235	259	174	119	67.2	52.6	36.2	20.1
MAX	155	416	609	551	677	610	551	539	298	345	197	109
(WY)	1978	1974	1991	1974	1991	1975	1977	1984	1989	1967	1942	1982
MIN	3.05	5.35	7.34	14.4	14.9	47.6	34.9	17.2	13.8	4.26	6.00	3.02
(WY)	1954	1941	1966	1981	1941	1988	1986	1941	1988	1944	1951	1954

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1941 - 1997

ANNUAL TOTAL	63368	57461.3		
ANNUAL MEAN	173	157	120	
HIGHEST ANNUAL MEAN			219	1991
LOWEST ANNUAL MEAN			49.5	1941
HIGHEST DAILY MEAN	4670	Dec 1	4670	Dec 1
LOWEST DAILY MEAN	14	Sep 21	7.2	Sep 5
ANNUAL SEVEN-DAY MINIMUM	14	Sep 20	7.6	Sep 2
INSTANTANEOUS PEAK FLOW			6720	Dec 1
INSTANTANEOUS PEAK STAGE			18.46	Dec 1
INSTANTANEOUS LOW FLOW			7.2	Sep 5
ANNUAL RUNOFF (CFSM)	2.86	2.60		1.99
ANNUAL RUNOFF (INCHES)	38.90	35.27		27.01
10 PERCENT EXCEEDS	343	262		256
50 PERCENT EXCEEDS	102	88		46
90 PERCENT EXCEEDS	23	10		7.8

CUMBERLAND RIVER BASIN

03402900 CUMBERLAND RIVER AT PINE ST BRIDGE AT PINEVILLE, KY

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

DRAINAGE AREA.--770 mi².

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

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

REMARKS.--No estimated daily discharges. Records good. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	917	709	28900	2170	2620	4060	1630	2400	1740	683	178	85
2	953	712	15700	2020	2190	6400	1540	2220	2060	682	153	82
3	1670	646	6150	1830	1930	21200	1410	2310	1710	556	145	80
4	1560	571	3860	1590	3540	19300	1270	2490	2200	447	139	83
5	1130	510	3070	2760	5450	7570	1100	2210	2040	411	132	81
6	860	483	2970	3560	4500	9420	1050	1940	1700	382	124	78
7	737	522	2800	2770	3210	6340	1020	1650	1410	348	123	74
8	667	12000	2800	2250	2840	4300	875	1450	1260	327	121	72
9	572	7110	2560	2730	2570	3280	848	1250	1520	302	115	76
10	440	3480	2280	3120	2300	3100	798	1160	1390	410	121	85
11	363	2480	2080	2680	2070	2640	740	1040	1150	312	126	127
12	361	1920	2120	2170	1840	2320	757	948	991	274	123	119
13	311	1600	3070	1810	1660	2090	799	878	991	267	115	115
14	291	1450	2580	1580	1550	2240	725	838	3360	253	125	99
15	283	1310	2170	1490	1420	2400	684	1010	4530	234	134	90
16	266	1150	1890	2580	1270	2180	658	916	2800	217	126	83
17	247	1060	1910	2630	1180	2030	649	812	2150	204	144	76
18	520	3130	1710	2140	1110	2020	639	756	2120	203	122	75
19	940	5630	1480	1810	1020	6410	623	746	1990	189	116	75
20	657	3490	1300	1610	864	6690	639	1390	2520	181	192	74
21	472	5550	1140	1410	893	4100	701	1600	1780	177	249	83
22	399	9440	1070	1320	1240	3130	1210	1280	1410	180	184	93
23	540	4250	1080	1530	1160	2520	1300	1040	1180	328	136	95
24	653	2830	1470	3550	1080	2160	1660	873	949	534	111	95
25	543	2270	2270	7170	1090	1820	1830	811	726	317	100	122
26	503	2630	2090	4480	1310	1760	1460	2580	668	247	97	120
27	526	2550	1860	3070	2930	1590	1260	4310	771	215	95	109
28	735	2340	1700	9970	4680	1480	1260	3050	782	195	96	96
29	1080	2040	1920	7850	---	1580	2660	2270	621	253	97	103
30	841	6400	2220	4410	---	1520	2560	2090	666	319	91	110
31	744	---	2300	3230	---	1630	---	1690	---	239	84	---
TOTAL	20781	90263	110520	93290	59517	139280	34355	50008	49185	9886	4014	2755
MEAN	670	3009	3565	3009	2126	4493	1145	1613	1640	319	129	91.8
MAX	1670	12000	28900	9970	5450	21200	2660	4310	4530	683	249	127
MIN	247	483	1070	1320	864	1480	623	746	621	177	84	72
CFSM	.87	3.91	4.63	3.91	2.76	5.83	1.49	2.10	2.13	.41	.17	.12
IN.	1.00	4.36	5.34	4.51	2.88	6.73	1.66	2.42	2.38	.48	.19	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1997, BY WATER YEAR (WY)

MEAN	286	1045	2599	2697	2802	3831	1978	1742	931	401	447	237
MAX	670	3009	5204	4201	6720	5367	4437	3091	1640	684	923	511
(WY)	1997	1997	1992	1994	1994	1994	1994	1995	1997	1996	1996	1996
MIN	142	271	534	1540	1020	2139	817	796	378	176	107	91.8
(WY)	1992	1995	1995	1993	1992	1992	1995	1993	1993	1993	1995	1997

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1992 - 1997

ANNUAL TOTAL	749401	663854	
ANNUAL MEAN	2048	1819	1580
HIGHEST ANNUAL MEAN			2241
LOWEST ANNUAL MEAN			1104
HIGHEST DAILY MEAN	28900	Dec 1	28900
LOWEST DAILY MEAN	176	Sep 24	72
ANNUAL SEVEN-DAY MINIMUM	191	Sep 21	78
INSTANTANEOUS PEAK FLOW			31100
INSTANTANEOUS PEAK STAGE			39.09
INSTANTANEOUS LOW FLOW			51
ANNUAL RUNOFF (CFSM)	2.66	2.36	2.05
ANNUAL RUNOFF (INCHES)	36.20	32.07	27.88
10 PERCENT EXCEEDS	3860	3480	3320
50 PERCENT EXCEEDS	1460	1210	790
90 PERCENT EXCEEDS	348	116	139

CUMBERLAND RIVER BASIN

03403500 CUMBERLAND RIVER BARBOURVILLE, KY

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

DRAINAGE AREA.-960 mi².

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

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

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

REMARKS.--Estimated daily discharges: May 21-27. Records fair except for period of estimated record, which is poor. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979. Diversion above station by city of Barbourville for municipal water supply.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1070	786	23800	2620	3410	4840	2120	2960	2020	841	232	78
2	996	818	28800	2390	2810	6580	1950	2530	2410	817	184	76
3	1670	750	19800	2150	2360	17000	1770	2570	2060	657	156	74
4	1820	661	10800	1900	3760	27900	1570	2110	2300	542	141	78
5	1340	618	5210	2750	6680	21000	1400	2010	2510	473	140	77
6	999	599	3600	4360	6330	16500	1300	2160	2030	442	130	73
7	826	645	3270	3630	4360	12600	1250	1850	1710	404	123	70
8	722	9770	3280	2900	3610	7530	1080	1580	1560	377	116	66
9	647	13500	3000	3130	3440	4370	967	1380	1630	343	114	83
10	549	6420	2610	3830	3050	3820	901	1300	1650	526	114	103
11	464	3280	2340	3490	2720	3460	841	1120	1390	410	117	94
12	407	2410	2210	2810	2370	2960	833	991	1230	323	117	136
13	401	1960	3160	2270	2110	2590	954	945	1300	294	113	113
14	356	1760	3010	1950	1960	2600	862	889	4140	283	108	103
15	334	1600	2470	1820	1810	2810	766	1020	7110	267	123	90
16	319	1380	2140	2830	1620	2560	695	880	4840	252	141	81
17	296	1240	2140	3410	1480	2290	660	837	3120	245	147	74
18	438	2930	2060	2780	1380	2270	652	766	3900	224	168	69
19	1170	7140	1810	2370	1300	6810	642	742	3080	221	142	68
20	875	5070	1590	2050	1110	10200	686	1320	3050	206	306	66
21	622	5090	1400	1790	1060	6660	721	943	2380	192	344	72
22	513	14100	1290	1650	1490	4110	1330	760	1750	183	289	76
23	533	9100	1280	1920	1470	3240	1510	896	1430	251	205	84
24	729	4090	1580	2660	1360	2630	1710	1010	1170	562	146	92
25	676	2860	2750	8530	1300	2180	2010	871	861	402	116	99
26	594	3180	2710	6980	1590	2180	1680	1460	765	286	100	123
27	593	3230	2320	4260	2890	1990	1420	3060	900	259	92	110
28	742	2870	2050	9600	5140	1810	1460	3970	948	215	88	104
29	1330	2470	2090	13800	---	2240	2470	2940	730	286	88	96
30	1010	4150	2560	8160	---	2500	2670	2570	732	321	88	97
31	860	---	2650	4480	---	2230	---	2110	---	324	84	---
TOTAL	23901	114477	149780	119270	73970	192460	38880	50550	64706	11428	4572	2625
MEAN	771	3816	4832	3847	2642	6208	1296	1631	2157	369	147	87.5
MAX	1820	14100	28800	13800	6680	27900	2670	3970	7110	841	344	136
MIN	296	599	1280	1650	1060	1810	642	742	730	183	84	66
CFSM	.80	3.97	5.03	4.01	2.75	6.47	1.35	1.70	2.25	.38	.15	.09
IN.	.93	4.44	5.80	4.62	2.87	7.46	1.51	1.96	2.51	.44	.18	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 1997, BY WATER YEAR (WY)

MEAN	404	1286	2445	3048	3360	3759	2644	2000	1020	626	421	299
MAX (WY)	3058	5231	9398	8182	7919	10470	6320	6782	5524	2346	1432	1894
MIN (WY)	9.86	43.7	102	135	568	791	549	459	121	62.8	27.0	15.8
	1954	1923	1966	1981	1954	1988	1986	1962	1930	1930	1925	1930

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1923 - 1997

ANNUAL TOTAL	985591	846619	
ANNUAL MEAN	2693	2320	1776
HIGHEST ANNUAL MEAN			3018
LOWEST ANNUAL MEAN			824
HIGHEST DAILY MEAN	28800	Dec 2	28800
LOWEST DAILY MEAN	212	Sep 26	66
ANNUAL SEVEN-DAY MINIMUM	228	Sep 21	72
INSTANTANEOUS PEAK FLOW			30100
INSTANTANEOUS PEAK STAGE			33.34
INSTANTANEOUS LOW FLOW			66
ANNUAL RUNOFF (CFSM)	2.81	2.42	1.85
ANNUAL RUNOFF (INCHES)	38.19	32.81	25.13
10 PERCENT EXCEEDS	5560	4360	4170
50 PERCENT EXCEEDS	1790	1400	789
90 PERCENT EXCEEDS	401	114	101

CUMBERLAND RIVER BASIN
03403910 CLEAR FORK AT SAXTON, KY

LOCATION.--Lat 36°82'02"(corrected), long 84°06'42", Whitley County, Hydrologic Unit 05130101, on right bank 100 ft upstream from bridge on State Highway 1804, at Saxton, 100 ft upstream from Louisville and Nashville Railroad bridge, 150 ft downstream from unnamed stream. 7.2 mi southeast of Williamsburg, and at mile 12.2.

DRAINAGE AREA.--331 mi².

PERIOD OF RECORD.--July 1968 to September 1990, October 1995 to current year.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 921.83 ft above sea level.

REMARKS.--No estimated daily discharges. Records good.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	115	14000	1060	875	2150	587	1190	1230	305	56	18
2	80	250	9810	895	709	2490	544	1070	1160	302	47	19
3	191	189	1950	749	604	8430	504	1420	2160	236	42	16
4	163	153	1090	627	1470	9260	460	1340	1220	196	41	14
5	111	131	845	1100	2070	3240	418	930	995	175	48	13
6	90	120	841	1230	1460	5540	396	724	764	151	48	13
7	70	144	794	922	1100	2310	363	562	678	133	38	14
8	63	3830	754	731	994	1470	303	455	732	121	35	14
9	60	1490	659	1290	867	1070	276	416	2530	199	35	27
10	56	737	574	1410	758	1080	257	352	1690	375	35	41
11	52	525	531	1070	677	920	247	300	1020	201	36	31
12	50	383	526	800	606	788	273	272	1200	144	34	21
13	48	305	664	650	544	697	357	259	1780	123	34	18
14	47	286	558	575	524	779	286	264	4560	112	34	17
15	47	274	498	540	461	690	258	283	6810	97	35	15
16	46	240	455	1010	392	604	241	235	2020	89	35	16
17	45	226	659	852	358	563	234	202	1310	80	32	16
18	63	978	678	771	327	614	222	190	1080	73	34	15
19	213	1850	598	651	315	3240	218	175	835	66	43	15
20	122	968	508	575	309	2630	227	259	782	63	42	15
21	86	725	415	493	346	1530	232	243	686	58	37	16
22	71	868	406	486	669	1090	608	181	541	55	34	15
23	81	672	386	623	563	821	652	160	438	61	28	17
24	137	540	542	1560	497	667	572	147	351	272	25	20
25	108	456	657	3330	457	581	473	150	301	127	24	60
26	94	1020	582	1670	564	636	393	245	433	82	23	58
27	98	889	559	1140	1730	534	357	286	581	65	23	37
28	99	668	510	4120	2330	496	431	382	382	56	21	26
29	144	531	754	2930	---	566	1880	420	329	60	22	22
30	130	2550	1210	1530	---	500	1340	560	285	75	21	21
31	108	---	1140	1100	---	583	---	478	---	68	20	---
TOTAL	2874	22113	44153	36490	22576	56569	13609	14150	38883	4220	1062	660
MEAN	92.7	737	1424	1177	806	1825	454	456	1296	136	34.3	22.0
MAX	213	3830	14000	4120	2330	9260	1880	1420	6810	375	56	60
MIN	45	115	386	486	309	496	218	147	285	55	20	13
CFSM	.28	2.23	4.30	3.56	2.44	5.51	1.37	1.38	3.92	.41	.10	.07
IN.	.32	2.49	4.96	4.10	2.54	6.36	1.53	1.59	4.37	.47	.12	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1997, BY WATER YEAR (WY)

MEAN	194	501	703	950	946	1059	785	692	426	204	185	141
MAX	1472	1624	1824	2534	1418	3356	1924	2087	1923	659	557	707
(WY)	1990	1974	1973	1974	1990	1975	1977	1984	1989	1971	1985	1989
MIN	18.7	44.4	53.7	41.0	353	300	147	122	31.1	44.0	34.3	19.3
(WY)	1981	1988	1981	1981	1977	1988	1986	1985	1988	1970	1997	1980

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1968 - 1997

ANNUAL TOTAL	254108	257359	
ANNUAL MEAN	694	705	565
HIGHEST ANNUAL MEAN			894
LOWEST ANNUAL MEAN			233
HIGHEST DAILY MEAN	14000	Dec 1	14000
LOWEST DAILY MEAN	40	Sep 25	13
ANNUAL SEVEN-DAY MINIMUM	42	Sep 20	15
INSTANTANEOUS PEAK FLOW			15300
INSTANTANEOUS PEAK STAGE			34.08
INSTANTANEOUS LOW FLOW			13
ANNUAL RUNOFF (CFSM)	2.10		2.13
ANNUAL RUNOFF (INCHES)	28.56		28.92
10 PERCENT EXCEEDS	1490		1460
50 PERCENT EXCEEDS	451		392
90 PERCENT EXCEEDS	65		33

CUMBERLAND RIVER BASIN

03404900 LYNN CAMP CREEK AT CORBIN, KY

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

DRAINAGE AREA.--53.8 mi².

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,049.00 ft above sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Estimated daily discharges: Dec. 21, Jan. 13-15, and Jan. 18, 19. Record good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	29	1500	104	111	183	115	56	324	426	13	2.5
2	25	32	378	91	92	673	93	39	185	160	11	2.0
3	31	25	176	79	81	1920	80	47	224	96	9.7	3.8
4	22	20	121	68	227	779	69	37	262	67	9.0	2.9
5	16	17	102	126	229	664	62	28	115	53	8.4	1.9
6	12	16	97	95	149	763	63	24	80	40	8.4	1.6
7	10	73	77	77	119	277	58	20	81	32	8.1	1.2
8	9.2	618	66	67	197	184	46	19	79	27	7.2	1.4
9	8.6	207	57	265	166	137	42	19	64	25	11	52
10	8.3	118	50	136	129	158	37	19	51	30	14	58
11	8.3	81	46	106	109	115	35	16	39	24	10	19
12	7.8	57	47	86	93	95	50	14	46	19	7.6	10
13	7.1	47	48	75	84	85	54	13	90	17	9.3	6.7
14	6.1	43	39	70	110	109	39	18	832	14	9.8	5.1
15	5.8	39	33	65	93	89	33	28	631	13	7.2	4.2
16	5.5	34	33	203	76	73	29	16	208	12	5.5	3.2
17	5.7	42	92	104	68	66	28	12	597	10	4.9	2.8
18	73	280	71	89	61	222	27	11	659	9.3	27	2.2
19	67	204	57	78	57	912	31	16	212	8.1	31	2.3
20	27	113	47	66	53	385	33	89	205	21	72	4.2
21	19	1050	44	59	78	194	53	34	122	11	27	6.1
22	14	854	41	103	102	138	57	19	88	12	12	4.6
23	40	186	46	150	68	107	40	14	70	223	8.1	3.3
24	32	125	166	181	58	88	35	11	50	171	6.2	8.5
25	21	128	122	301	54	76	28	14	39	47	5.4	12
26	21	252	89	161	151	129	24	96	59	29	5.3	7.7
27	24	150	82	124	195	79	23	130	131	22	5.3	5.7
28	38	115	72	990	140	73	53	131	50	17	4.4	13
29	54	96	114	379	---	636	116	139	63	28	4.0	15
30	32	557	113	193	---	213	59	117	434	22	4.5	7.8
31	26	---	132	141	---	168	---	80	---	16	3.2	---
TOTAL	697.4	5608	4158	4832	3150	9790	1512	1326	6090	1701.4	369.5	270.7
MEAN	22.5	187	134	156	113	316	50.4	42.8	203	54.9	11.9	9.02
MAX	73	1050	1500	990	229	1920	116	139	832	426	72	58
MIN	5.5	16	33	59	53	66	23	11	39	8.1	3.2	1.2
CFSM	.42	3.47	2.49	2.90	2.09	5.87	.94	.80	3.77	1.02	.22	.17
IN.	.48	3.88	2.88	3.34	2.18	6.77	1.05	.92	4.21	1.18	.26	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1997, BY WATER YEAR (WY)

MEAN	33.1	92.2	123	157	160	167	102	94.8	57.5	38.8	26.0	30.0
MAX	133	267	378	372	326	458	242	387	203	110	78.4	100
(WY)	1990	1974	1991	1974	1994	1975	1994	1983	1997	1978	1979	1982
MIN	1.35	10.8	10.4	5.13	56.9	41.9	16.5	9.47	2.38	2.11	2.50	1.89
(WY)	1981	1979	1981	1981	1977	1988	1986	1986	1988	1975	1976	1983

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1967 - 1997	
ANNUAL TOTAL	43637.8		39505.0			
ANNUAL MEAN	119		108		89.9	
HIGHEST ANNUAL MEAN					141	
LOWEST ANNUAL MEAN					36.5	
HIGHEST DAILY MEAN	1500	Dec 1	1920	Mar 3	4150	May 7 1984
LOWEST DAILY MEAN	5.5	Sep 3	1.2	Sep 7	.02	Jun 24 1988
ANNUAL SEVEN-DAY MINIMUM	6.6	Oct 11	2.1	Sep 2	.02	Jun 24 1988
INSTANTANEOUS PEAK FLOW			2470	Mar 3	9000	Jan 29 1957
INSTANTANEOUS PEAK STAGE			9.03	Mar 3	22.50	Jan 29 1957
INSTANTANEOUS LOW FLOW			1.2	Sep 7	.02	Jun 24 1988
ANNUAL RUNOFF (CFSM)	2.22		2.01		1.67	
ANNUAL RUNOFF (INCHES)	30.17		27.32		22.69	
10 PERCENT EXCEEDS	244		210		200	
50 PERCENT EXCEEDS	60		53		38	
90 PERCENT EXCEEDS	11		7.2		3.7	

CUMBERLAND RIVER BASIN

03406500 ROCKCASTLE RIVER AT BILLOWS, KY

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

DRAINAGE AREA.--604 mi².

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

REVISED RECORDS.--WSP 1436: Drainage area.

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

REMARKS.--Estimated daily discharges: July 23 to Aug. 29. Records good except for period of estimated record, which is poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	548	288	10700	1060	1460	3200	1650	298	5610	6310	170	31
2	691	274	7470	957	1160	16100	1370	322	3800	2780	140	29
3	3060	273	2950	870	960	22600	1170	412	2450	1530	110	29
4	1380	244	1890	778	1240	23000	1010	735	2120	983	90	27
5	856	219	1400	868	2490	6700	879	634	1440	724	80	25
6	610	204	1270	1240	2300	10100	787	565	1040	564	74	23
7	470	223	1070	966	1790	4710	691	495	831	444	72	22
8	373	5200	884	847	1680	2790	580	433	973	365	68	22
9	312	4490	754	843	1890	1970	507	411	2330	307	72	77
10	263	1920	646	1100	1630	1690	455	397	1990	352	73	225
11	226	1260	596	975	1420	1500	419	341	1420	363	73	412
12	197	921	586	779	1220	1210	412	300	1390	283	74	199
13	171	708	654	732	1050	1040	414	276	3220	219	74	120
14	151	593	582	666	1130	1140	392	270	6160	187	74	84
15	137	508	528	657	1230	1420	346	281	6640	163	73	63
16	127	441	514	1070	1070	1190	314	286	2890	142	68	51
17	118	407	1730	1090	977	1080	297	245	5980	124	70	42
18	138	764	2930	889	889	1270	287	220	7090	109	74	37
19	364	1950	1910	900	822	6680	288	217	3250	97	88	32
20	421	1590	1410	814	754	6150	312	328	2160	89	115	86
21	298	1560	1080	728	714	3150	311	483	1540	80	160	372
22	242	3530	932	696	915	2130	301	374	1080	73	175	340
23	220	2140	915	1310	893	1560	304	293	817	78	160	182
24	238	1500	1330	1570	774	1230	282	248	615	185	130	134
25	281	1190	2470	2810	721	1020	265	225	485	330	94	111
26	244	2600	1760	2260	727	1160	243	523	408	265	72	94
27	245	2400	1450	1740	1040	1190	231	768	552	200	58	84
28	286	1720	1230	4280	1050	1040	245	642	592	170	48	74
29	293	1340	1180	4620	---	2670	313	616	398	150	40	65
30	309	2070	1270	2600	---	2540	312	632	6880	170	34	54
31	304	---	1130	1870	---	2000	---	969	---	180	33	---
TOTAL	13573	42527	55221	42585	33996	135230	15387	13239	76151	18016	2736	3146
MEAN	438	1418	1781	1374	1214	4362	513	427	2538	581	88.3	105
MAX	3060	5200	10700	4620	2490	23000	1650	969	7090	6310	175	412
MIN	118	204	514	657	714	1020	231	217	398	73	33	22
CFSM	.72	2.35	2.95	2.27	2.01	7.22	.85	.71	4.20	.96	.15	.17
IN.	.84	2.62	3.40	2.62	2.09	8.33	.95	.82	4.69	1.11	.17	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1997, BY WATER YEAR (WY)

MEAN	203	587	1286	1690	1925	2034	1457	968	562	362	202	157
MAX	2887	2374	5279	5990	5236	5860	4051	4207	2862	1830	1263	1052
(WY)	1990	1987	1991	1937	1956	1975	1972	1983	1947	1941	1977	1974
MIN	3.18	11.5	16.5	56.9	208	507	188	115	37.9	10.8	10.1	4.95
(WY)	1954	1954	1954	1981	1941	1983	1986	1941	1988	1944	1957	1936

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1936 - 1997

ANNUAL TOTAL	447192	451807		
ANNUAL MEAN	1222	1238	949	
HIGHEST ANNUAL MEAN			1575	1979
LOWEST ANNUAL MEAN			345	1954
HIGHEST DAILY MEAN	12100	May 28	23000	Mar 4
LOWEST DAILY MEAN	43	Sep 6	22	Sep 7
ANNUAL SEVEN-DAY MINIMUM	62	Sep 1	25	Sep 2
INSTANTANEOUS PEAK FLOW			27300	Mar 4
INSTANTANEOUS PEAK STAGE			33.14	Mar 4
INSTANTANEOUS LOW FLOW			22	Sep 7
ANNUAL RUNOFF (CFSM)	2.02	2.05	1.57	
ANNUAL RUNOFF (INCHES)	27.54	27.83	21.34	
10 PERCENT EXCEEDS	2570	2600	2150	
50 PERCENT EXCEEDS	759	615	332	
90 PERCENT EXCEEDS	118	76	24	

CUMBERLAND RIVER BASIN

03410500 SOUTH FORK CUMBERLAND RIVER NEAR STEARNS, KY

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

DRAINAGE AREA.--954 mi².

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

REVISED RECORDS.--WSP 1113: 1946(M). WSP 1436: Drainage area.

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

REMARKS.--Estimated daily discharges: Dec. 30 to Jan. 1, and Jan. 8-13. Records good except for periods of estimated record, which are poor.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	747	233	55800	4200	2850	8220	1990	3390	20700	6630	152	54
2	501	414	18200	3210	2270	8800	1680	3460	11100	6430	150	50
3	403	716	6370	2610	1880	32400	1470	4400	5550	2630	121	47
4	376	545	3990	1990	3630	21700	1330	6540	3430	1560	104	48
5	313	441	2950	2240	5390	9410	1200	3750	2670	1060	98	47
6	260	382	2950	3660	4340	19200	1120	2640	3870	804	97	43
7	228	368	2780	2900	3300	8230	1070	1980	2960	637	96	41
8	198	7440	2770	2650	2930	4990	933	1500	2410	524	98	39
9	180	5910	2460	2600	3080	3540	806	1280	3530	447	102	54
10	161	3190	2020	3400	2670	3100	734	1140	3460	398	107	118
11	151	2320	1770	2850	2360	3040	694	963	2450	409	110	77
12	141	1640	1630	2500	2030	2480	705	809	2580	361	106	86
13	135	1250	2030	2000	1780	2130	856	722	7270	305	107	71
14	129	1070	1940	1600	1890	2240	900	725	15200	266	131	60
15	122	1060	1730	1640	1860	2770	745	735	22600	238	122	54
16	109	984	1590	2790	1590	2430	684	699	7540	217	104	50
17	103	907	1760	3560	1400	2110	639	587	4020	185	99	48
18	117	1730	2400	2480	1260	2060	615	504	2890	174	100	46
19	145	5680	2190	2250	1170	5990	616	479	2210	160	152	44
20	212	3440	1930	1970	1100	8750	699	537	1700	148	168	42
21	231	2410	1600	1610	1080	5380	736	573	1820	135	177	41
22	181	2560	1500	1520	1890	3730	2330	483	1640	177	149	40
23	179	2280	1450	2280	2270	2790	3240	408	1430	257	123	38
24	191	1850	1720	2930	1810	2190	2540	359	1060	1010	112	65
25	265	1570	2730	10100	1540	1810	1970	376	806	602	99	142
26	276	3540	2660	5850	1550	1940	1520	680	672	373	84	173
27	263	4230	2400	3800	3420	1960	1270	1570	1470	242	74	250
28	242	2790	2180	12100	7160	1660	1270	3500	1400	191	69	199
29	230	2110	2520	10400	---	2160	5190	4230	1040	219	65	148
30	222	6290	3600	5360	---	2510	4770	3870	1380	196	62	115
31	207	---	4100	3710	---	2230	---	3010	---	166	58	---
TOTAL	7218	69350	145720	112760	69500	181950	44322	55899	140858	27151	3396	2330
MEAN	233	2312	4701	3637	2482	5869	1477	1803	4695	876	110	77.7
MAX	747	7440	55800	12100	7160	32400	5190	6540	22600	6630	177	250
MIN	103	233	1450	1520	1080	1660	615	359	672	135	58	38
CFSM	.24	2.42	4.93	3.81	2.60	6.15	1.55	1.89	4.92	.92	.11	.08
IN.	.28	2.70	5.68	4.40	2.71	7.09	1.73	2.18	5.49	1.06	.13	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1997, BY WATER YEAR (WY)

MEAN	402	1296	2704	3344	3544	3714	2512	1715	949	606	404	365
MAX	2553	4556	7388	9615	8747	10580	6038	6555	5152	3772	2997	2983
(WY)	1990	1958	1991	1950	1956	1975	1977	1984	1989	1967	1971	1982
MIN	20.8	30.6	150	145	725	1248	568	224	72.8	34.5	65.4	29.6
(WY)	1954	1954	1964	1981	1968	1985	1986	1948	1988	1944	1951	1953

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1943 - 1997

ANNUAL TOTAL	802643	860454	
ANNUAL MEAN	2193	2357	1789
HIGHEST ANNUAL MEAN			3023
LOWEST ANNUAL MEAN			810
HIGHEST DAILY MEAN	55800	Dec 1	80200
LOWEST DAILY MEAN	99	Sep 27	11
ANNUAL SEVEN-DAY MINIMUM	116	Sep 21	12
INSTANTANEOUS PEAK FLOW			69500
INSTANTANEOUS PEAK STAGE			38.68
INSTANTANEOUS LOW FLOW			38
ANNUAL RUNOFF (CFSM)	2.30	2.47	1.88
ANNUAL RUNOFF (INCHES)	31.30	33.55	25.48
10 PERCENT EXCEEDS	4870	4860	4090
50 PERCENT EXCEEDS	1450	1470	725
90 PERCENT EXCEEDS	173	101	84

CUMBERLAND RIVER BASIN

03413200 BEAVER CREEK NEAR MONTICELLO, KY

LOCATION.--Lat 36°47'51", long 84°53'46", Wayne County, Hydrologic Unit 05130103, on left bank upstream of bridge on State Highway 200, 0.6 mi downstream from unnamed tributary, 0.8 mi northeast of Bethesda, 0.9 mi upstream from unnamed tributary, 3.8 mi southwest of Monticello, and at mile 24.0.

DRAINAGE AREA.--43.4 mi².

PERIOD OF RECORD.--October 1968 to September 1983, October 1989 to current year.

GAGE.--Water-stage recorder. Datum of gage is 804.72 ft above sea level.

REMARKS.--Estimated daily discharges: June 16 to July 9 and July 13-24. Records good except for period of estimated record, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1946 reached a stage of 10.8 ft from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	13	1190	39	21	262	37	49	1050	37	5.2	1.9
2	40	22	219	36	59	1170	22	39	228	28	4.9	2.0
3	37	14	148	34	54	1810	50	37	169	20	4.1	2.2
4	20	11	53	31	102	518	59	31	46	18	3.8	1.9
5	15	10	22	34	136	851	51	27	54	17	3.5	2.2
6	12	9.0	22	56	58	666	45	24	41	16	3.0	2.2
7	11	34	60	46	12	262	39	22	34	15	2.7	2.1
8	9.6	322	46	40	90	174	33	20	28	14	2.5	2.3
9	8.9	82	38	41	118	133	30	20	23	12	5.5	3.5
10	6.9	52	33	50	37	124	28	16	20	10	7.6	6.7
11	6.2	40	31	52	17	70	26	14	17	8.3	4.4	3.0
12	5.7	27	29	44	62	18	26	14	16	6.7	3.6	2.5
13	5.5	21	32	37	57	49	25	13	41	5.5	3.1	2.3
14	5.7	19	29	33	101	84	22	14	753	5.1	3.1	2.1
15	5.7	16	27	34	47	34	20	14	470	4.9	3.3	2.1
16	5.3	15	25	150	14	27	18	12	150	4.0	2.8	2.2
17	5.3	14	80	20	60	54	18	11	85	3.8	2.8	2.4
18	6.8	88	42	49	62	286	17	9.8	48	3.3	3.2	2.4
19	7.2	47	55	58	55	1110	18	8.3	27	3.0	3.1	2.4
20	6.4	56	44	50	47	362	16	13	22	2.9	3.4	2.7
21	6.2	261	37	42	77	204	28	12	18	2.9	3.0	2.5
22	6.2	190	34	39	59	145	43	9.4	16	2.9	2.7	2.5
23	6.8	58	33	111	62	79	30	7.5	13	20	2.6	2.7
24	7.8	54	149	120	55	21	27	6.0	11	10	2.5	5.8
25	8.3	124	104	170	50	52	23	5.7	9.0	4.1	2.5	5.8
26	8.5	233	15	123	81	105	21	9.2	10	3.2	2.5	3.6
27	10	122	46	53	196	21	21	15	9.7	2.8	2.6	3.0
28	12	21	62	304	156	36	22	24	9.5	2.9	2.5	2.8
29	16	60	54	225	---	272	67	26	40	5.3	2.5	2.7
30	12	322	48	154	---	137	55	19	48	5.5	2.3	2.6
31	9.9	---	44	114	---	121	---	147	---	5.0	2.0	---
TOTAL	334.9	2357.0	2851	2389	1945	9257	937	688.9	3506.2	299.1	103.3	85.1
MEAN	10.8	78.6	92.0	77.1	69.5	299	31.2	22.2	117	9.65	3.33	2.84
MAX	40	322	1190	304	196	1810	67	147	1050	37	7.6	6.7
MIN	5.3	9.0	15	20	12	18	16	5.7	9.0	2.8	2.0	1.9
CFSM	.25	1.81	2.12	1.78	1.60	6.88	.72	.51	2.69	.22	.08	.07
IN.	.29	2.02	2.44	2.05	1.67	7.93	.80	.59	3.01	.26	.09	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1997, BY WATER YEAR (WY)

MEAN	23.8	37.1	104	118	115	140	112	57.4	44.2	17.3	18.0	16.2
MAX	281	109	459	265	225	479	234	215	193	101	124	106
(WY)	1990	1980	1991	1974	1991	1975	1977	1983	1981	1971	1971	1982
MIN	1.72	3.47	2.41	2.36	28.1	24.0	21.4	16.6	4.83	3.13	1.89	1.17
(WY)	1981	1972	1981	1981	1981	1983	1995	1982	1980	1980	1980	1980

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1969 - 1997	
ANNUAL TOTAL	24668.3		24753.5			
ANNUAL MEAN	67.4		67.8		66.8	
HIGHEST ANNUAL MEAN					103	
LOWEST ANNUAL MEAN					32.5	
HIGHEST DAILY MEAN	1190	Dec 1	1810	Mar 3	4280	Oct 17 1989
LOWEST DAILY MEAN	3.4	Jul 19	1.9	Sep 1	.50	Oct 2 1968
ANNUAL SEVEN-DAY MINIMUM	4.3	Jul 11	2.1	Aug 31	.95	Sep 4 1980
INSTANTANEOUS PEAK FLOW			2570	Mar 3	9300	Oct 17 1989
INSTANTANEOUS PEAK STAGE			7.61	Mar 3	8.37	Oct 17 1989
INSTANTANEOUS LOW FLOW			1.9	Sep 1	.50	Oct 2 1968
ANNUAL RUNOFF (CFSM)	1.55		1.56		1.54	
ANNUAL RUNOFF (INCHES)	21.14		21.22		20.91	
10 PERCENT EXCEEDS	149		146		135	
50 PERCENT EXCEEDS	35		22		21	
90 PERCENT EXCEEDS	5.4		2.8		2.7	

CUMBERLAND RIVER BASIN

03438000 LITTLE RIVER NEAR CADIZ, KY

LOCATION.--Lat 36°46'40", long 87°43'18", Trigg County, Hydrologic Unit 05130205, on right bank at upstream side of bridge on State Highway 1253, 50 ft downstream from Casey Creek, 8.8 mi southeast of Cadiz, and at mile 34.3.

DRAINAGE AREA.--244 mi², of which about 94 mi² does not contribute directly to surface runoff.

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

REVISED RECORDS.--WSP 1173: 1942-43, 1946(M), 1949. WSP 1306: 1940(M). WSP 1626: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 391.45 ft above sea level. Prior to July 31, 1945, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges. Jan. 10-20, and June 19-25. Records good except for periods of estimated record, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	588	1190	1480	528	631	17000	626	534	183	575	79	61
2	493	1060	1140	496	560	24300	584	484	187	445	75	55
3	415	848	876	471	526	18600	553	997	192	372	72	61
4	351	741	729	447	4220	7210	533	802	178	389	69	56
5	301	672	656	467	3430	5140	598	610	164	334	65	53
6	260	612	650	503	1690	4940	674	534	157	292	62	49
7	231	676	611	433	1240	2720	599	471	152	263	60	46
8	208	973	538	398	1080	2220	536	439	159	240	57	44
9	186	771	481	389	973	1880	495	472	148	223	64	44
10	165	643	444	360	842	2110	464	445	140	206	114	45
11	150	564	424	320	754	1710	447	389	134	189	117	47
12	140	501	1340	280	685	1380	446	354	134	176	86	44
13	129	453	1370	260	669	1210	447	331	162	195	80	43
14	120	429	835	250	1120	1750	429	307	1270	237	99	43
15	114	414	683	260	1030	1470	401	283	832	189	84	43
16	108	395	999	560	835	1160	381	259	543	183	70	42
17	103	375	4590	500	720	1030	363	245	1670	157	62	43
18	188	415	2770	400	649	1560	345	240	1230	142	62	42
19	309	480	1570	360	595	3650	339	283	840	133	66	38
20	205	440	1130	340	553	1930	329	332	700	124	150	38
21	164	447	912	329	726	1440	335	270	600	114	225	38
22	148	457	784	341	1020	1190	347	236	520	112	118	37
23	168	426	730	542	696	1010	350	219	460	106	91	40
24	268	404	2260	650	591	893	330	208	400	102	79	43
25	215	804	1590	898	541	822	308	203	380	97	72	41
26	513	1380	1040	679	511	922	287	221	327	93	73	45
27	1110	936	876	629	580	853	392	232	295	90	71	41
28	4020	745	789	1520	1110	816	891	214	393	86	71	38
29	1990	652	702	1120	---	897	642	200	454	111	74	34
30	1280	848	625	832	---	758	517	196	471	109	70	32
31	971	---	568	715	---	678	---	189	---	84	70	---
TOTAL	15611	19751	34192	16277	28577	113249	13988	11199	13475	6168	2607	1326
MEAN	504	658	1103	525	1021	3653	466	361	449	199	84.1	44.2
MAX	4020	1380	4590	1520	4220	24300	891	997	1670	575	225	61
MIN	103	375	424	250	511	678	287	189	134	84	57	32
CFSM	2.06	2.70	4.52	2.15	4.18	15.0	1.91	1.48	1.84	.82	.34	.18
IN.	2.38	3.01	5.21	2.48	4.36	17.27	2.13	1.71	2.05	.94	.40	.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1997, BY WATER YEAR (WY)

MEAN	64.6	213	463	562	701	789	556	414	205	148	94.4	97.7
MAX	504	1677	1985	2168	2130	3653	1924	1875	583	790	381	925
(WY)	1997	1958	1979	1950	1989	1997	1979	1984	1981	1989	1950	1950
MIN	12.3	14.1	14.2	27.3	39.6	28.1	37.5	21.4	34.0	29.6	23.9	15.7
(WY)	1944	1941	1964	1963	1963	1941	1941	1941	1963	1988	1952	1941

SUMMARY STATISTICS

	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1940 - 1997	
ANNUAL TOTAL	193611		276420			
ANNUAL MEAN	529		757		357	
HIGHEST ANNUAL MEAN					757	
LOWEST ANNUAL MEAN					58.9	
HIGHEST DAILY MEAN	4590	Dec 17	24300	Mar 2	24300	Mar 2 1997
LOWEST DAILY MEAN	64	Sep 6	32	Sep 30	3.6	Oct 3 1941
ANNUAL SEVEN-DAY MINIMUM	69	Sep 1	39	Sep 24	7.0	Oct 24 1940
INSTANTANEOUS PEAK FLOW			37600	Mar 1	37600	Mar 1 1997
INSTANTANEOUS PEAK STAGE			26.44	Mar 1	26.44	Mar 1 1997
INSTANTANEOUS LOW FLOW					1.0	Oct 3 1941
ANNUAL RUNOFF (CFSM)	2.17		3.10		1.46	
ANNUAL RUNOFF (INCHES)	29.52		42.14		19.90	
10 PERCENT EXCEEDS	1110		1250		836	
50 PERCENT EXCEEDS	408		415		140	
90 PERCENT EXCEEDS	109		65		28	

CUMBERLAND RIVER BASIN

03438190 BARKLEY-KENTUCKY CANAL NEAR GRAND RIVERS, KY

LOCATION.--Lat 36°59'23", long 88°13'17", Lyon County, Hydrologic Unit 05130205, on north pier of bridge on State Highway 453, 1.1 mi southeast of Grand Rivers, and 2.9 mi upstream from Kentucky Dam.

PERIOD OF RECORD.--June 1966 to September 1997 (discontinued).

GAGE.--Deflection-meter recorder and water-stage recorder. Prior to Apr. 8, 1967, water-stage recorders. Datum of stage gages is 299.69 ft above sea level. Prior to Apr. 20, 1990 datum of gages was considered to be 300.00 ft above sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--No estimated daily discharges. Records fair. Figures of discharge represent net flow between Lake Barkley in Cumberland River Basin and Kentucky Lake in Tennessee River Basin. Canal initially opened on June 13, 1966. Discharges shown as minus are flow from Kentucky Lake to Lake Barkley.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-32200	-21600	3420	-22100	-18900	13100	3140	-21000	-25200	-2150	-3300	-7050
2	-35500	-5570	19700	-19700	-6420	52700	-1750	-31200	-14100	-4770	1520	-13400
3	-32300	-4150	4340	-11200	1910	49800	-2590	-29800	-8250	-18800	1060	-17500
4	-34200	-12500	-19400	-11600	10300	36000	-2550	-41000	-19300	-24000	-2330	-14000
5	-32200	-13300	-29400	-8100	27500	22800	-185	-47100	-26000	-27700	-7900	-12700
6	-25100	-24700	-29200	-2450	18000	16200	4740	-41500	-16900	-17200	-11000	2180
7	-24500	-16600	-25800	-273	6480	25100	13900	-39500	-6020	-10800	-3080	2620
8	-28200	-13500	-25900	-5620	-7680	16000	6800	-34800	294	-21400	-8800	-10900
9	-30400	-3660	-28900	-14900	-13200	1130	7610	-31800	846	-25000	4260	-19400
10	-28200	-11800	-33100	-8180	-6350	-15000	641	-33700	-2220	-22900	-1810	-17800
11	-30800	-22000	-28400	-10400	-2010	-4880	-7060	-20700	-9090	-27800	-13000	-16200
12	-29800	-27400	-21600	-13000	562	-2690	14500	-26200	-14900	-25900	-19700	-8850
13	-20800	-26200	-14400	-18500	380	-2640	18900	-28200	-15900	-6290	-14600	-692
14	-14400	-19500	-298	-18300	-4560	7460	2660	-16500	2070	-9480	-13900	2680
15	-20300	-20900	-7480	-15400	-11690	2630	-4980	-11300	20800	-16400	-12800	-8050
16	-20100	-29500	-11400	-10100	-12900	4080	-1360	-15500	6040	-15200	-14400	-16700
17	-19700	-14900	4010	-18600	-17000	3940	-907	-4600	6210	-13800	-5630	-16400
18	-14400	-10500	27600	-14300	-17200	14500	-3930	3170	5440	-12100	-11400	-14300
19	-13500	-13200	17900	-13500	-9500	23600	6270	-345	222	-4550	-15400	-15000
20	-4000	-9740	-2860	-12900	-9710	38900	2680	544	-13100	3650	-8760	-950
21	-15700	-4590	-12600	-20300	-11300	29100	3740	3980	-13000	-5000	483	1040
22	-25600	-1900	-14500	-17600	-5290	24400	1020	-11600	-1620	-9910	-7790	-3580
23	-21000	-3430	-17100	-9030	-8020	18200	2900	-9940	-1470	-9820	-9480	-6380
24	-17200	889	3360	-8850	-13300	5400	-3330	-2500	-6220	-12400	-6980	-7930
25	-21300	463	1870	2690	-21500	7750	-9780	3350	-517	-11500	-13200	-21400
26	-10500	-11800	2290	5600	-23600	7020	-10400	2260	1860	-6080	-15700	-29300
27	-396	-18100	2260	3790	-15000	8750	-2870	3870	-1750	-1260	-21000	-34900
28	7450	-13700	2020	-6460	-15800	12900	3850	-18900	-919	-7920	-14500	-30900
29	-18800	-10700	4860	4490	---	11000	-1450	-25900	-4610	-10000	-14300	-32000
30	-15800	-12900	-7860	1690	---	9760	-27600	-31300	-11700	-12500	-17700	-32600
31	-23200	---	-17000	-7800	---	11100	---	-28100	---	-12900	-12500	---
TOTAL	-652646	-396988	-253568	-300903	-185708	448110	12609	-585811	-169004	-401880	-293637	-400362
MEAN	-21050	-13230	-8180	-9707	-6632	14460	420	-18900	-5633	-12960	-9472	-13350
MAX	7450	889	27600	5600	27500	52700	18900	3980	20800	3650	4260	2680
MIN	-35500	-29500	-33100	-22100	-23600	-15000	-27600	-47100	-26000	-27800	-21000	-34900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1997, BY WATER YEAR (WY)

MEAN	-8802	-11040	-10560	-7546	-8461	-5828	-1155	-5717	-5456	-7412	-8069	-7141
MAX	4584	3266	6337	19250	3980	14460	9814	11560	6507	4620	5562	1523
(WY)	1982	1982	1979	1991	1989	1997	1972	1995	1981	1966	1966	1966
MIN	-24200	-30180	-25820	-23210	-24390	-21560	-10380	-24140	-19220	-18440	-16570	-22440
(WY)	1976	1993	1972	1984	1987	1990	1991	1991	1991	1975	1979	1989

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1966 - 1997
ANNUAL TOTAL	-2541675.6	-3179788	
ANNUAL MEAN	-6944	-8712	-7381
HIGHEST ANNUAL MEAN			-849
LOWEST ANNUAL MEAN			-13190
HIGHEST DAILY MEAN	50600	May 16	52700 Mar 2
LOWEST DAILY MEAN	-35500	Oct 2	-47100 May 5
ANNUAL SEVEN-DAY MINIMUM	-30900	Oct 1	-38500 May 4
INSTANTANEOUS PEAK STAGE			66.33 Mar 13
10 PERCENT EXCEEDS	10200	6350	6370
50 PERCENT EXCEEDS	-7410	-9820	-7080
90 PERCENT EXCEEDS	-24700	-27500	-22800