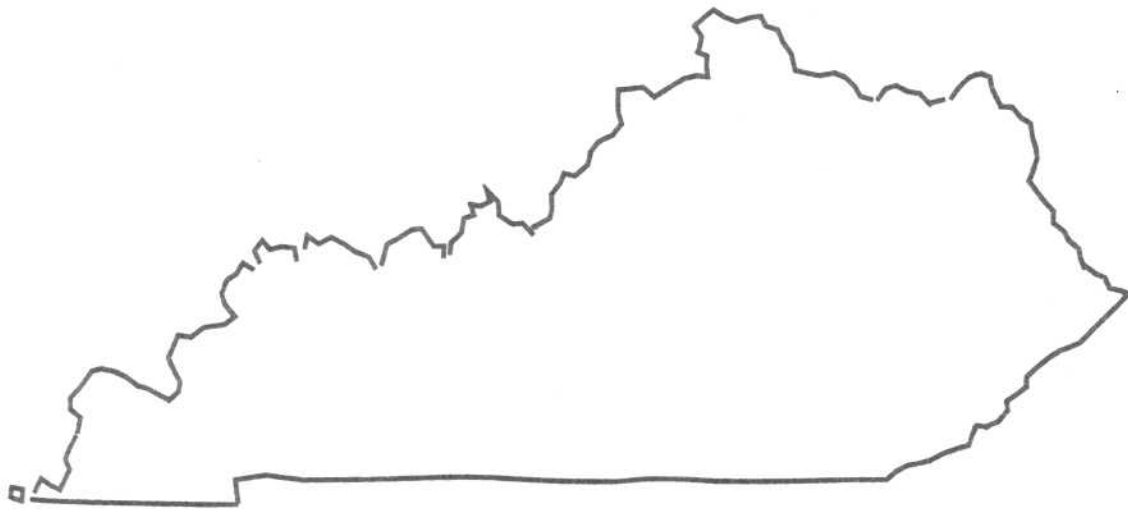


Water Resources Data Kentucky Water Year 1998

Water-Data Report KY-98-1



U.S. Department of the Interior
U.S. Geological Survey



Prepared in cooperation with the
Commonwealth of Kentucky
and with other agencies

CUMBERLAND RIVER BASIN

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

PUMP NUMBER 3

DAY	MAX	MIN	MEAN	PUMP NUMBER 3								
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	8.1	7.0	7.6	---	---	---	---	---	---
2	---	---	---	8.2	7.9	8.0	---	---	---	---	---	---
3	---	---	---	8.4	7.9	8.1	---	---	---	---	---	---
4	---	---	---	8.6	8.2	8.4	---	---	---	---	---	---
5	---	---	---	8.8	8.3	8.5	---	---	---	---	---	---
6	---	---	---	8.4	8.1	8.3	---	---	---	---	---	---
7	---	---	---	8.3	8.1	8.2	---	---	---	---	---	---
8	---	---	---	8.1	7.8	8.0	---	---	---	---	---	---
9	---	---	---	8.1	8.0	8.0	---	---	---	---	---	---
10	---	---	---	8.1	7.9	8.0	---	---	---	---	---	---
11	6.5	4.9	5.9	8.1	7.9	8.0	---	---	---	---	---	---
12	7.1	6.2	6.6	8.1	7.9	8.0	---	---	---	---	---	---
13	6.7	5.6	6.4	---	---	---	---	---	---	---	---	---
14	6.5	4.8	5.5	---	---	---	---	---	---	---	---	---
15	5.6	4.7	5.2	---	---	---	---	---	---	---	---	---
16	6.0	4.6	5.0	---	---	---	---	---	---	---	---	---
17	5.1	4.9	5.0	---	---	---	---	---	---	---	---	---
18	5.4	4.6	5.0	---	---	---	---	---	---	---	---	---
19	5.6	4.8	5.2	---	---	---	---	---	---	---	---	---
20	6.2	4.9	5.3	---	---	---	---	---	---	---	---	---
21	5.4	4.7	5.1	---	---	---	---	---	---	---	---	---
22	5.6	4.8	5.1	---	---	---	---	---	---	---	---	---
23	6.1	5.4	5.6	---	---	---	---	---	---	---	---	---
24	6.1	5.8	6.0	---	---	---	---	---	---	---	---	---
25	7.0	6.0	6.5	---	---	---	---	---	---	---	---	---
26	7.7	6.1	6.8	---	---	---	---	---	---	---	---	---
27	7.8	7.2	7.5	---	---	---	---	---	---	---	---	---
28	7.3	6.6	7.0	---	---	---	---	---	---	---	---	---
29	7.7	7.3	7.4	---	---	---	---	---	---	---	---	---
30	7.7	7.0	7.4	---	---	---	---	---	---	---	---	---
31	8.1	7.4	7.8	---	---	---	---	---	---	---	---	---
MONTH	8.1	4.6	6.1	8.8	7.0	8.1	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	9.3	8.9	9.2	8.9	8.7	8.8
2	---	---	---	---	---	---	9.0	8.9	9.0	9.4	8.6	8.8
3	---	---	---	---	---	---	9.4	8.6	9.0	8.7	8.5	8.6
4	---	---	---	---	---	---	8.5	8.3	8.4	8.7	8.4	8.6
5	---	---	---	---	---	---	8.5	8.4	8.4	8.9	8.5	8.7
6	---	---	---	---	---	---	8.4	8.3	8.4	8.9	8.5	8.8
7	---	---	---	---	---	---	8.8	8.3	8.5	9.0	8.7	8.9
8	---	---	---	---	---	---	8.5	8.3	8.4	9.9	8.7	9.0
9	---	---	---	---	---	---	8.5	8.3	8.4	9.6	8.7	9.0
10	---	---	---	---	---	---	8.4	8.3	8.4	9.1	8.8	8.9
11	---	---	---	---	---	---	8.4	8.3	8.3	10.1	8.8	9.2
12	---	---	---	---	---	---	8.5	8.3	8.4	9.9	9.0	9.2
13	---	---	---	---	---	---	8.4	8.3	8.4	9.4	9.0	9.2
14	---	---	---	---	---	---	8.5	8.4	8.4	9.8	9.4	9.5
15	---	---	---	---	---	---	8.6	8.4	8.5	10.0	9.4	9.6
16	---	---	---	---	---	---	8.8	8.4	8.5	10.6	9.3	9.7
17	---	---	---	---	---	---	13.1	8.5	10.7	10.2	9.2	9.7
18	---	---	---	---	---	---	11.2	9.6	10.8	10.7	9.4	10.0
19	---	---	---	---	---	---	11.6	11.1	11.4	10.6	9.1	9.8
20	---	---	---	---	---	---	11.5	11.2	11.4	10.5	8.9	9.7
21	---	---	---	---	---	---	11.3	10.9	11.1	10.6	9.5	9.8
22	---	---	---	---	---	---	11.1	10.7	10.9	10.1	9.1	9.4
23	---	---	---	---	---	---	10.7	10.3	10.6	9.7	8.7	9.4
24	---	---	---	---	---	---	10.2	9.8	10.0	9.9	9.2	9.7
25	---	---	---	---	---	---	9.9	9.5	9.7	10.3	9.0	9.5
26	---	---	---	---	---	---	9.9	9.5	9.6	10.0	9.3	9.6
27	---	---	---	---	---	---	9.5	9.3	9.4	10.1	9.2	9.8
28	---	---	---	---	---	---	9.7	9.0	9.3	10.1	9.3	9.8
29	---	---	---	---	---	---	9.3	8.9	9.1	10.9	9.4	10.0
30	---	---	---	10.2	9.3	9.6	9.0	8.8	8.9	10.7	9.7	10.3
31	---	---	---	10.0	9.1	9.4	---	---	---	10.7	8.3	10.0
MONTH	---	---	---	10.2	9.1	9.5	13.1	8.3	9.3	10.9	8.3	9.4

CUMBERLAND RIVER BASIN

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

PUMP NUMBER 3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.8	9.7	10.3	10.0	9.2	9.4	7.7	7.5	7.6	6.6	6.2	6.4
2	10.5	8.3	9.8	10.2	9.5	9.8	7.7	7.5	7.6	6.3	6.1	6.2
3	10.3	9.7	9.9	10.3	9.8	10.1	7.7	7.4	7.5	6.6	6.1	6.3
4	10.3	9.1	9.9	10.3	9.9	10.2	7.3	6.9	7.2	6.7	6.4	6.6
5	10.3	9.7	10.0	10.5	9.7	10.0	7.5	6.8	7.0	6.6	6.2	6.4
6	10.0	8.7	9.5	10.5	8.3	9.4	7.5	6.9	7.1	6.1	6.0	6.1
7	9.5	8.6	9.1	10.0	8.5	9.6	7.6	7.0	7.3	6.1	5.8	6.0
8	9.1	8.2	8.7	9.6	8.6	9.1	7.5	7.1	7.3	6.5	6.2	6.4
9	8.4	7.3	7.7	9.2	8.8	9.0	---	---	---	6.1	5.6	5.9
10	8.0	6.7	7.6	9.6	8.0	8.8	7.5	6.9	7.2	5.7	5.5	5.6
11	7.3	6.5	6.7	9.5	8.2	9.0	7.3	6.9	7.0	5.4	5.0	5.2
12	7.1	6.3	6.6	9.1	8.8	8.9	7.0	6.7	6.8	6.9	4.9	6.0
13	7.4	6.6	7.0	9.4	8.6	8.9	6.7	6.5	6.6	6.2	5.8	6.0
14	7.3	6.6	7.1	8.8	8.0	8.4	6.5	6.2	6.4	5.8	5.2	5.6
15	8.2	7.0	7.5	8.8	8.1	8.4	6.4	6.1	6.2	6.2	5.7	5.9
16	8.4	7.1	7.7	8.8	7.5	8.0	6.3	6.1	6.2	6.0	5.6	5.9
17	8.9	7.4	8.0	8.6	7.9	8.2	6.3	5.9	6.2	6.0	5.7	5.9
18	8.8	7.3	8.1	7.8	7.4	7.6	6.4	6.1	6.2	5.8	5.3	5.6
19	9.1	8.0	8.5	8.4	7.1	7.4	6.4	5.8	6.1	5.5	4.8	5.1
20	9.0	8.0	8.6	7.8	7.2	7.4	6.3	5.7	6.0	5.8	4.7	5.4
21	8.7	7.3	8.2	7.5	7.2	7.4	6.3	5.5	5.9	6.6	6.0	6.3
22	9.9	7.8	8.7	7.9	7.1	7.6	6.5	5.7	6.1	6.9	6.4	6.7
23	10.1	9.4	9.6	8.1	7.5	7.7	6.5	5.9	6.1	6.8	6.4	6.6
24	10.0	9.8	9.9	8.2	7.5	7.9	6.3	6.2	6.2	7.1	6.2	6.6
25	9.9	8.8	9.6	7.9	7.4	7.7	6.9	6.7	6.8	6.3	5.9	6.2
26	9.8	9.3	9.6	7.7	7.5	7.6	7.1	6.3	6.7	6.2	5.3	5.9
27	9.7	9.3	9.4	7.6	7.3	7.4	6.8	6.5	6.6	6.4	5.3	5.8
28	9.8	9.2	9.5	7.4	7.1	7.3	6.7	6.5	6.6	6.3	5.6	5.9
29	9.6	9.2	9.4	7.7	7.4	7.5	6.7	6.5	6.6	6.9	6.0	6.5
30	9.6	7.8	9.0	7.8	7.4	7.6	6.6	6.3	6.5	6.8	5.0	6.1
31	---	---	---	7.8	7.5	7.7	6.6	6.4	6.5	---	---	---
MONTH	10.8	6.3	8.7	10.5	7.1	8.4	7.7	5.5	6.7	7.1	4.7	6.0
YEAR	13.1	4.6	7.9									
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PUMP NUMBER 4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	10.2	9.9	10.0
2	---	---	---	---	---	---	---	---	---	10.2	9.6	9.9
3	---	---	---	---	---	---	---	---	---	9.9	9.6	9.8
4	---	---	---	---	---	---	---	---	---	10.0	9.5	9.8
5	---	---	---	---	---	---	---	---	---	9.9	8.6	9.3
6	---	---	---	---	---	---	---	---	---	9.7	9.5	9.6
7	---	---	---	---	---	---	---	---	---	9.9	9.6	9.7
8	---	---	---	---	---	---	---	---	---	9.6	9.4	9.5
9	---	---	---	---	---	---	---	---	---	10.7	9.4	9.7
10	---	---	---	---	---	---	---	---	---	10.7	9.5	9.9
11	---	---	---	---	---	---	---	---	---	10.7	9.6	10.0
12	---	---	---	---	---	---	---	---	---	10.5	9.7	10.1
13	---	---	---	---	---	---	---	---	---	10.3	9.8	10.2
14	---	---	---	---	---	---	---	---	---	10.6	9.8	10.2
15	---	---	---	---	---	---	---	---	---	10.1	9.4	9.6
16	---	---	---	---	---	---	---	---	---	10.5	8.5	9.6
17	---	---	---	---	---	---	---	---	---	10.5	8.5	9.5
18	---	---	---	---	---	---	---	---	---	9.1	8.4	8.8
19	---	---	---	---	---	---	---	---	---	9.3	8.5	8.8
20	---	---	---	---	---	---	---	---	---	9.5	8.3	8.7
21	---	---	---	---	---	---	---	---	---	8.9	8.4	8.6
22	---	---	---	---	---	---	---	---	---	8.4	8.2	8.3
23	---	---	---	---	---	---	---	---	---	8.3	8.2	8.2
24	---	---	---	---	---	---	---	---	---	8.3	8.2	8.2
25	---	---	---	---	---	---	---	---	---	8.5	8.0	8.2
26	---	---	---	---	---	---	---	---	---	8.5	8.1	8.3
27	---	---	---	---	---	---	9.4	9.3	9.3	8.4	8.3	8.4
28	---	---	---	---	---	---	9.8	9.2	9.6	8.7	7.9	8.2
29	---	---	---	---	---	---	10.4	9.5	9.9	8.1	7.8	8.0
30	---	---	---	---	---	---	10.6	9.8	10.1	8.0	7.6	7.9
31	---	---	---	---	---	---	---	---	---	7.9	7.6	7.8
MONTH	---	---	---	---	---	---	10.6	9.2	9.7	10.7	7.6	9.1

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. 1-6, Nov. 28 to Dec. 1, Apr. 29 to May 11, July 17 to Aug. 16, Aug. 21-23, and Aug. 26 to Sept. 30. Records good except for period of estimated record, which are fair. Flow regulated by Martins Fork Dam (station 03400798) beginning January 1979.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	11	15	48	169	59	113	225	17	51	10	10
2	11	11	16	33	168	59	198	225	17	36	10	10
3	11	30	39	20	168	59	112	225	17	21	10	10
4	11	55	54	20	174	59	19	360	19	21	10	10
5	11	55	22	61	203	59	19	370	55	21	10	10
6	11	54	22	109	226	60	94	410	94	21	10	11
7	10	33	22	109	223	60	182	390	94	21	10	10
8	9.6	18	22	167	221	60	219	290	107	21	10	12
9	9.6	18	21	211	219	96	219	210	120	22	10	10
10	9.6	18	59	211	218	137	219	210	128	22	10	10
11	9.7	18	109	210	217	158	222	225	141	21	10	10
12	10	36	93	206	217	193	223	327	123	21	10	10
13	10	60	67	204	192	162	165	405	86	21	11	10
14	11	52	66	153	159	105	119	384	88	22	14	10
15	11	34	44	96	158	104	131	273	120	22	13	10
16	11	34	19	72	157	103	167	127	180	21	19	10
17	11	34	19	47	158	103	411	125	177	17	66	10
18	11	33	16	47	159	107	620	124	129	14	98	10
19	11	33	11	47	159	156	1110	99	55	14	98	10
20	11	33	11	82	159	290	1510	60	27	12	71	10
21	11	33	11	119	159	347	1460	49	27	10	15	10
22	11	33	21	119	159	346	1390	27	28	10	15	10
23	12	33	31	106	159	343	1130	28	48	11	15	10
24	12	67	32	92	157	339	665	28	81	10	23	10
25	12	111	32	93	156	332	411	28	81	10	38	10
26	13	87	32	119	130	326	402	54	59	10	24	10
27	13	68	33	169	77	266	395	92	21	10	10	10
28	12	37	33	170	59	198	386	92	21	10	10	10
29	11	15	67	171	---	218	300	67	23	10	10	10
30	11	15	110	171	---	215	225	17	34	10	10	10
31	11	---	83	169	---	148	---	17	---	11	10	---
TOTAL	340.5	1169	1232	3651	4780	5267	12836	5563	2217	554	690	303
MEAN	11.0	39.0	39.7	118	171	170	428	179	73.9	17.9	22.3	10.1
MAX	13	111	110	211	226	347	1510	410	180	51	98	12
MIN	9.6	11	11	20	59	59	19	17	17	10	10	10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1998, BY WATER YEAR (WY)

MEAN	55.9	111	149	175	198	190	117	136	71.9	25.5	27.4	26.7
MAX	181	226	452	357	402	342	428	322	267	75.3	117	117
(WY)	1990	1997	1992	1982	1990	1997	1998	1983	1989	1990	1996	1989
MIN	11.0	28.9	16.4	10.1	81.6	33.5	12.4	36.7	12.5	9.34	9.43	9.49
(WY)	1998	1981	1981	1981	1988	1988	1986	1987	1988	1988	1988	1984

SUMMARY STATISTICS

FOR 1997 CALENDAR YEAR

FOR 1998 WATER YEAR

WATER YEARS 1980 - 1998

ANNUAL TOTAL	34760.5	38602.5	
ANNUAL MEAN	95.2	106	107
HIGHEST ANNUAL MEAN			139
LOWEST ANNUAL MEAN			58.0
HIGHEST DAILY MEAN	571	Mar 6	1510
LOWEST DAILY MEAN	9.6	Oct 8	9.6
ANNUAL SEVEN-DAY MINIMUM	9.8	Oct 7	9.8
INSTANTANEOUS PEAK FLOW			1520
INSTANTANEOUS PEAK STAGE			14.05
INSTANTANEOUS LOW FLOW			10
10 PERCENT EXCEEDS	269	224	288
50 PERCENT EXCEEDS	32	44	50
90 PERCENT EXCEEDS	11	10	11

CUMBERLAND RIVER BASIN

03400800 MARTINS FORK NEAR SMITH, KY--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG.C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	134	133	134	131	124	129	115	111	114	90	86	90
2	137	133	134	130	126	129	114	110	112	98	90	91
3	137	132	137	130	123	129	118	110	113	102	90	96
4	144	136	141	123	119	119	122	114	118	94	90	93
5	140	136	138	133	119	127	118	118	118	90	86	87
6	136	131	135	133	129	130	124	113	119	98	82	88
7	135	124	130	133	129	133	113	109	112	94	90	92
8	139	120	132	133	125	131	113	105	110	98	90	94
9	138	123	129	133	122	127	113	109	111	102	98	98
10	138	130	133	122	122	122	117	112	113	102	98	99
11	141	110	129	125	118	121	112	104	108	106	94	99
12	122	110	119	118	114	117	112	100	105	102	90	95
13	126	122	122	118	118	118	112	100	106	98	90	95
14	137	122	127	118	118	118	108	100	106	102	94	96
15	137	121	128	122	118	120	116	103	109	102	94	97
16	144	125	135	125	122	122	111	103	106	106	94	99
17	132	125	128	125	122	125	107	75	92	106	98	103
18	125	117	118	125	122	123	90	78	83	110	98	104
19	117	113	115	125	122	122	98	78	92	110	102	107
20	117	113	113	125	102	117	82	75	79	114	102	107
21	113	109	110	122	114	120	82	78	79	110	102	108
22	139	113	123	125	110	119	86	82	86	122	110	112
23	143	116	127	129	102	120	86	82	86	122	110	114
24	127	116	120	125	114	117	90	82	85	118	110	116
25	127	116	120	118	110	113	90	82	86	125	118	121
26	124	116	121	122	106	112	90	86	88	---	---	---
27	135	116	127	122	106	114	90	86	87	122	114	115
28	127	116	124	122	110	114	90	86	87	118	114	116
29	---	---	---	118	110	114	90	86	89	114	102	111
30	---	---	---	115	111	114	90	86	89	106	98	103
31	---	---	---	115	111	114	---	---	---	106	102	104
MONTH	144	109	127	133	102	121	124	75	100	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	110	102	109	122	115	119	129	125	129	143	139	140
2	114	102	108	122	115	118	129	129	129	143	139	140
3	106	102	106	119	115	116	129	125	128	140	140	140
4	110	98	108	120	112	116	129	125	128	141	140	141
5	118	106	110	116	112	115	127	127	127	141	141	141
6	118	114	116	120	112	115	128	127	128	141	141	141
7	118	114	115	117	112	115	132	128	129	141	141	141
8	118	114	114	117	113	116	132	128	129	142	141	142
9	114	110	112	117	113	116	---	---	---	146	142	143
10	114	106	109	122	117	118	133	129	130	142	138	142
11	114	110	112	122	118	118	134	129	130	142	142	142
12	122	110	115	122	118	118	134	130	132	146	142	143
13	122	114	118	122	118	118	134	119	131	147	139	143
14	122	113	117	123	118	119	135	130	132	144	140	143
15	121	109	114	123	119	119	135	131	134	145	141	144
16	117	105	114	123	119	120	139	124	134	146	141	145
17	124	113	115	123	119	121	139	131	135	147	142	145
18	117	113	114	127	120	124	140	136	138	148	139	144
19	117	109	114	127	120	123	145	136	141	148	144	145
20	117	109	113	128	124	126	145	129	140	149	144	146
21	117	108	113	128	124	125	129	125	126	150	145	146
22	116	108	112	124	124	124	126	125	126	150	146	148
23	120	108	113	128	124	125	126	126	126	148	143	146
24	123	116	119	128	124	126	138	126	129	152	148	149
25	123	112	119	128	124	125	142	138	140	153	149	149
26	120	116	119	128	124	125	142	138	140	153	149	149
27	116	112	113	129	124	127	142	138	140	154	150	150
28	119	111	114	129	125	127	142	138	139	154	150	151
29	119	111	114	129	125	128	142	138	139	154	150	152
30	122	111	114	129	125	128	139	139	139	155	150	153
31	---	---	---	129	125	127	143	139	139	---	---	---
MONTH	124	98	113	129	112	121	---	---	---	155	138	145

CUMBERLAND RIVER BASIN

03400800 MARTINS FORK NEAR SMITH, KY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.6	20.8	21.9	16.5	16.0	16.2	---	---	---	5.2	4.2	4.7
2	23.2	20.6	21.4	16.8	15.1	15.8	---	---	---	5.6	4.6	4.9
3	23.5	20.4	21.5	15.5	14.9	15.2	---	---	---	6.1	4.6	5.1
4	23.7	20.5	21.8	14.9	14.2	14.6	---	---	---	5.9	4.8	5.2
5	23.8	21.0	22.1	15.0	13.8	14.3	---	---	---	6.1	5.0	5.3
6	23.9	21.0	22.0	14.0	13.7	13.8	---	---	---	5.9	5.4	5.6
7	23.9	21.0	22.0	14.3	13.5	13.8	---	---	---	6.0	5.7	5.8
8	23.9	21.2	22.1	13.7	13.0	13.4	---	---	---	---	---	---
9	23.9	21.2	22.3	13.4	13.0	13.1	---	---	---	---	---	---
10	22.7	21.5	22.0	13.4	12.6	12.9	7.3	6.5	6.8	7.2	6.6	6.8
11	24.5	21.7	22.6	12.7	12.1	12.4	6.7	6.5	6.7	7.2	6.8	6.9
12	24.1	21.7	22.6	12.1	11.9	12.1	6.5	6.3	6.4	7.2	7.0	7.2
13	24.3	21.4	22.5	12.5	11.9	12.2	6.5	6.1	6.3	7.6	6.8	7.3
14	22.3	20.2	21.5	12.3	11.7	12.1	6.1	5.7	5.9	7.4	6.8	7.0
15	22.7	19.8	20.8	11.7	11.0	11.4	6.2	5.3	5.6	7.4	6.8	7.1
16	22.3	19.2	20.4	11.1	10.4	10.8	6.2	4.9	5.5	7.4	7.2	7.3
17	20.0	19.6	19.7	11.0	10.0	10.3	6.2	4.9	5.5	7.4	7.0	7.2
18	21.7	19.2	20.2	10.8	9.6	10.1	6.4	4.9	5.4	7.6	7.0	7.2
19	21.2	19.2	20.1	10.9	9.9	10.3	6.8	4.5	5.4	7.4	7.0	7.3
20	21.2	18.8	19.6	11.1	9.7	10.2	7.0	4.9	5.7	7.3	6.7	6.9
21	19.4	18.4	18.9	12.2	9.9	10.8	6.6	5.3	5.9	7.3	6.7	7.0
22	19.8	16.8	18.4	11.6	11.2	11.4	6.8	6.0	6.3	7.3	7.1	7.2
23	19.4	16.3	17.5	11.6	10.9	11.2	6.4	6.0	6.2	7.3	7.1	7.2
24	18.0	16.6	17.3	11.1	10.1	10.6	6.7	6.0	6.4	7.1	6.7	6.9
25	20.0	17.4	18.4	10.7	9.9	10.2	6.7	6.5	6.7	6.7	6.5	6.6
26	18.5	17.7	18.1	10.7	10.1	10.4	7.1	6.5	6.7	7.1	6.3	6.7
27	17.9	16.0	16.8	10.9	9.9	10.3	6.7	6.1	6.4	6.9	6.3	6.7
28	17.8	15.1	16.3	11.4	9.9	10.7	6.5	5.7	6.1	6.5	5.9	6.3
29	18.4	15.3	16.3	---	---	---	6.3	5.7	5.9	6.6	5.9	6.3
30	18.1	15.3	16.1	---	---	---	5.7	5.4	5.5	6.6	5.9	6.4
31	17.9	15.0	16.1	---	---	---	5.4	4.8	5.1	6.6	6.0	6.4
MONTH	24.5	15.0	20.0	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	5.9	6.5	9.1	8.1	8.5	15.2	11.1	12.4	13.2	12.6	12.9
2	6.8	6.4	6.6	8.9	7.9	8.5	14.3	11.7	12.8	13.2	12.8	13.0
3	6.4	6.0	6.4	9.4	8.1	8.5	13.3	12.0	12.8	13.3	12.9	13.1
4	6.0	5.7	5.7	9.8	9.4	9.5	12.0	11.0	11.3	13.7	13.1	13.4
5	5.7	5.3	5.6	9.4	8.2	9.0	13.9	10.6	11.9	13.9	13.3	13.5
6	5.7	5.3	5.4	9.0	8.2	8.5	12.3	10.4	11.5	15.6	13.3	14.2
7	6.1	5.5	5.8	8.8	8.4	8.6	13.1	11.8	12.3	15.6	14.8	15.0
8	6.1	5.8	5.9	9.4	8.6	8.9	13.2	12.3	12.9	16.0	14.8	15.3
9	6.5	6.0	6.2	10.0	8.6	9.4	13.8	12.4	13.2	15.4	15.0	15.2
10	6.7	6.1	6.5	9.4	8.6	9.1	12.8	12.2	12.6	15.3	14.7	15.1
11	7.3	6.0	6.5	8.6	7.6	8.1	12.6	11.9	12.3	15.5	14.5	14.8
12	7.1	6.1	6.6	7.6	7.0	7.4	12.6	11.7	12.2	15.7	14.5	15.0
13	6.2	6.1	6.1	7.2	6.5	6.8	13.2	11.7	12.3	16.4	15.1	15.4
14	6.6	5.9	6.2	7.6	6.7	7.1	14.1	12.2	12.9	16.7	15.4	15.9
15	6.4	5.9	6.2	7.8	6.8	7.2	13.5	12.3	12.9	16.9	16.0	16.4
16	6.5	5.9	6.3	7.4	6.8	7.1	15.1	12.2	13.2	17.3	16.0	16.5
17	7.1	6.5	6.8	7.6	6.8	7.2	13.0	12.6	12.9	18.0	16.4	16.9
18	7.1	6.9	7.1	8.3	7.3	7.8	12.8	12.4	12.6	18.0	16.5	17.2
19	7.2	6.9	7.1	8.5	7.7	8.2	12.6	12.0	12.3	19.6	17.0	17.7
20	7.4	7.0	7.2	10.9	7.9	8.8	12.3	12.0	12.1	18.8	17.0	18.0
21	7.2	7.0	7.2	9.1	8.3	8.6	12.3	11.8	12.0	19.3	17.0	18.3
22	7.4	7.0	7.1	9.1	8.3	8.8	12.1	11.9	12.0	19.1	17.5	18.1
23	7.3	7.1	7.2	9.7	8.3	8.8	12.2	11.9	12.0	19.9	17.7	18.4
24	7.5	6.7	7.2	8.9	8.3	8.6	12.4	11.7	12.1	21.3	17.9	19.2
25	7.7	7.1	7.3	8.9	8.5	8.7	12.6	11.7	12.2	20.6	18.5	19.3
26	8.4	7.0	7.7	10.9	8.3	9.6	13.3	11.9	12.5	---	---	---
27	9.4	7.6	8.4	11.7	9.1	10.3	12.5	12.3	12.5	20.6	19.8	20.2
28	9.4	8.2	8.9	13.8	9.1	11.6	12.9	11.9	12.4	21.0	19.8	20.3
29	---	---	---	13.4	10.3	11.4	12.8	12.4	12.7	22.3	18.0	20.5
30	---	---	---	14.2	10.3	11.6	12.8	12.4	12.6	21.5	17.8	19.1
31	---	---	---	12.6	11.3	11.9	---	---	---	21.9	17.8	19.5
MONTH	9.4	5.3	6.7	14.2	6.5	8.8	15.2	10.4	12.4	---	---	---

CUMBERLAND RIVER BASIN

03400800 MARTINS FORK NEAR SMITH, KY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.4	18.2	19.3	24.3	22.9	23.4	26.4	22.8	24.2	27.9	24.6	25.9
2	22.1	17.8	19.4	24.9	22.1	23.5	27.6	22.7	24.5	27.8	24.4	25.6
3	21.5	18.4	19.5	25.3	21.7	22.9	27.6	22.7	24.6	26.7	24.1	25.0
4	19.6	18.4	19.0	24.7	21.9	22.8	27.6	22.5	24.6	27.4	23.7	25.2
5	22.5	18.4	20.0	24.7	22.1	23.1	26.8	22.9	24.5	27.5	24.1	25.4
6	20.8	19.8	20.3	25.6	22.2	23.3	27.2	23.1	24.7	27.5	24.4	25.3
7	20.8	19.8	20.1	24.6	22.2	23.1	27.4	22.9	24.8	27.3	24.2	25.4
8	20.4	19.8	19.9	24.2	22.4	23.0	27.6	23.3	25.1	26.6	23.0	24.9
9	20.0	19.6	19.7	24.6	22.4	23.2	---	---	---	25.8	22.4	23.7
10	20.4	19.4	19.8	25.4	22.6	23.6	26.8	23.7	24.9	26.0	22.0	23.5
11	20.8	19.4	19.9	24.6	22.6	23.4	26.8	23.7	24.9	26.1	22.2	23.7
12	21.4	19.8	20.3	26.0	22.2	23.7	27.6	23.7	25.0	26.5	22.5	23.9
13	21.5	20.0	20.6	25.6	22.8	23.8	27.4	23.5	25.0	26.6	22.7	24.2
14	21.2	20.2	20.5	24.0	22.8	23.3	25.1	23.7	24.1	26.7	22.9	24.4
15	22.1	20.2	20.9	25.2	22.8	23.6	25.5	23.7	24.4	26.8	22.7	24.4
16	23.1	20.4	21.1	24.7	22.7	23.4	24.9	23.7	24.0	26.6	23.4	24.6
17	21.7	20.8	21.2	25.9	22.7	24.0	26.3	23.5	24.7	26.7	23.3	24.6
18	22.5	21.2	21.7	26.6	23.1	24.4	26.3	25.3	25.7	26.5	23.5	24.7
19	22.7	20.6	21.7	26.8	23.5	24.5	26.3	25.5	25.8	26.8	23.6	24.7
20	22.7	20.2	21.2	26.4	23.1	24.3	27.6	22.9	25.6	27.1	23.8	25.0
21	21.7	20.4	20.8	27.9	23.0	24.7	25.5	21.9	23.4	26.1	24.1	24.7
22	23.1	20.2	21.4	26.5	23.2	24.4	25.6	22.2	23.4	26.4	24.4	25.0
23	23.5	20.2	21.7	25.3	23.3	24.3	25.8	22.4	23.6	26.7	23.1	24.6
24	23.7	22.5	23.0	26.5	23.5	24.6	26.0	22.4	24.2	25.7	22.7	23.8
25	24.3	22.7	23.3	26.6	23.3	24.6	27.3	25.6	26.2	25.5	22.5	23.6
26	25.5	22.9	23.7	26.3	23.1	24.5	28.0	25.1	26.4	26.3	22.9	24.1
27	24.9	21.7	22.8	25.5	23.3	24.3	28.4	24.5	26.0	25.9	22.5	23.9
28	24.7	21.5	22.7	26.9	23.6	24.9	28.4	24.7	26.0	26.1	23.3	24.1
29	23.3	21.5	22.3	27.3	23.6	24.9	28.0	24.5	25.8	25.9	23.1	24.0
30	24.1	21.0	22.6	25.4	23.6	24.3	28.2	24.9	25.9	26.1	23.3	24.3
31	---	---	---	25.6	23.2	24.4	28.1	24.6	25.9	---	---	---
MONTH	25.5	17.8	21.0	27.9	21.7	23.9	---	---	---	27.9	22.0	24.5

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.7	8.3	8.4	9.7	8.9	9.3	---	---	---	12.7	12.5	12.6
2	8.7	8.3	8.4	10.2	9.0	9.7	---	---	---	12.7	12.1	12.5
3	8.7	8.0	8.3	10.0	9.3	9.6	---	---	---	12.6	12.1	12.3
4	8.6	7.9	8.2	9.8	9.4	9.6	---	---	---	12.5	12.1	12.3
5	8.5	7.8	8.0	10.1	9.6	9.8	---	---	---	12.5	12.2	12.2
6	8.8	6.8	7.6	10.1	9.7	9.8	---	---	---	12.2	12.2	12.2
7	7.0	6.6	6.8	9.9	9.6	9.7	---	---	---	12.2	11.9	12.1
8	7.1	6.7	6.9	9.9	9.6	9.7	---	---	---	12.0	11.2	11.6
9	7.3	6.8	7.0	10.0	9.7	9.8	12.1	11.4	11.8	11.5	11.3	11.4
10	7.4	6.8	7.1	10.3	9.8	10.0	11.5	11.0	11.3	11.5	11.5	11.5
11	7.5	7.0	7.2	10.2	9.9	10.0	11.5	11.3	11.4	11.5	11.5	11.5
12	7.5	7.0	7.3	10.3	9.9	10.1	11.6	11.5	11.5	11.5	11.5	11.5
13	7.8	7.1	7.4	10.4	9.7	10.1	11.7	11.5	11.5	11.6	11.5	11.5
14	7.5	6.9	7.2	10.4	9.7	9.9	11.8	11.6	11.7	11.7	11.5	11.6
15	7.4	6.9	7.1	10.5	9.8	10.0	12.0	11.4	11.8	11.5	11.1	11.3
16	7.4	7.0	7.2	10.5	9.9	10.1	11.9	11.4	11.6	11.1	10.7	11.0
17	7.4	7.0	7.2	10.7	10.1	10.4	11.9	11.5	11.6	11.1	11.0	11.0
18	7.8	7.1	7.4	10.5	10.0	10.2	12.0	11.3	11.7	11.2	11.1	11.1
19	7.7	7.1	7.4	10.8	9.9	10.3	12.1	11.2	11.5	11.1	11.0	11.0
20	8.1	7.4	7.7	10.5	9.9	10.2	11.9	11.3	11.5	11.3	11.1	11.2
21	8.2	7.7	7.9	10.1	9.0	9.6	12.0	11.3	11.6	11.2	11.1	11.2
22	8.4	7.9	8.2	9.8	9.2	9.4	11.9	11.3	11.6	11.2	11.1	11.1
23	8.7	8.2	8.4	10.1	9.2	9.6	12.0	11.7	11.9	11.2	11.1	11.1
24	8.7	8.3	8.5	9.7	9.1	9.4	12.0	11.6	11.8	11.2	11.1	11.1
25	9.3	8.2	8.6	9.9	9.2	9.5	12.0	11.5	11.8	11.4	11.2	11.3
26	9.5	8.2	8.6	9.9	9.2	9.6	12.1	11.7	11.9	11.4	11.2	11.3
27	9.4	8.3	8.8	10.5	9.6	10.0	12.1	11.6	11.9	11.2	11.2	11.2
28	10.4	8.6	9.0	9.9	9.5	9.6	12.2	11.8	12.0	11.3	11.2	11.3
29	9.8	8.6	9.5	---	---	---	12.2	11.8	12.1	11.5	11.2	11.4
30	9.6	9.0	9.3	---	---	---	12.3	12.2	12.3	11.7	11.3	11.4
31	10.2	8.9	9.4	---	---	---	12.5	12.3	12.4	11.4	11.3	11.3
MONTH	10.4	6.6	7.9	---	---	---	---	---	---	12.7	10.7	11.5

CUMBERLAND RIVER BASIN

03400800 MARTINS FORK NEAR SMITH, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.4	11.3	11.4	11.0	10.7	10.9	10.4	9.6	10.1	10.1	9.9	10.0
2	11.5	11.3	11.4	11.0	10.7	10.9	10.3	9.8	10.1	10.0	9.8	10.0
3	11.5	11.3	11.4	11.0	10.7	10.8	10.0	9.4	9.7	9.9	9.7	9.8
4	11.4	11.2	11.4	10.8	10.7	10.8	9.8	9.3	9.6	9.8	9.6	9.7
5	11.6	11.3	11.4	11.0	10.7	10.9	10.0	9.7	9.8	9.7	9.7	9.7
6	11.7	11.5	11.6	11.0	10.8	10.9	10.1	9.7	9.9	9.9	9.7	9.8
7	11.7	11.5	11.6	11.0	10.8	10.9	10.1	9.8	10.0	9.8	9.7	9.8
8	11.7	11.6	11.7	10.9	10.6	10.8	10.2	10.0	10.1	9.7	9.5	9.6
9	11.8	11.7	11.7	10.7	10.5	10.6	10.2	9.8	10.0	9.7	9.7	9.7
10	11.7	11.6	11.6	10.9	10.7	10.8	10.1	9.9	10.0	9.7	9.6	9.7
11	11.7	11.4	11.6	11.0	10.8	10.9	10.3	10.0	10.1	10.1	9.7	9.9
12	11.6	11.4	11.5	11.2	11.0	11.1	10.4	10.1	10.3	10.0	9.7	9.9
13	11.4	11.3	11.4	11.4	11.2	11.3	10.4	10.2	10.3	9.9	9.6	9.8
14	11.4	11.2	11.3	11.5	11.3	11.4	10.4	10.1	10.3	9.7	9.5	9.7
15	11.6	11.1	11.4	11.6	11.3	11.5	10.2	10.1	10.2	9.6	9.4	9.6
16	11.3	11.1	11.2	11.6	11.5	11.5	10.2	9.6	10.0	9.6	9.3	9.5
17	11.2	11.1	11.2	11.6	11.4	11.5	10.2	9.9	10.0	9.6	9.2	9.4
18	11.2	11.2	11.2	11.4	11.2	11.3	10.2	10.0	10.1	9.4	9.2	9.3
19	11.2	11.2	11.2	11.3	11.1	11.2	10.7	9.8	10.4	9.4	9.0	9.2
20	11.3	11.1	11.2	11.2	10.5	11.0	10.7	10.7	10.7	9.4	9.0	9.2
21	11.3	11.1	11.2	11.1	10.8	11.0	10.8	10.7	10.7	9.3	8.7	9.0
22	11.2	11.0	11.1	11.0	10.8	10.9	10.8	10.7	10.7	9.0	8.7	8.8
23	11.2	10.9	11.0	11.0	10.8	10.9	10.7	10.4	10.6	8.9	8.7	8.8
24	11.2	11.0	11.1	11.0	11.0	11.0	10.4	10.1	10.3	8.9	8.5	8.7
25	11.2	11.1	11.1	11.0	11.0	11.0	10.3	10.2	10.2	8.9	8.5	8.7
26	11.2	11.0	11.1	11.1	10.8	10.9	10.3	10.0	10.1	---	---	---
27	11.1	10.7	10.9	10.9	10.5	10.7	10.1	10.0	10.1	8.8	8.5	8.6
28	11.0	10.7	10.8	10.8	10.1	10.4	10.1	10.0	10.1	8.6	8.3	8.5
29	---	---	---	10.6	10.1	10.5	10.2	10.0	10.1	8.6	8.0	8.4
30	---	---	---	10.5	10.1	10.4	10.1	10.0	10.1	8.3	7.9	8.1
31	---	---	---	10.5	10.2	10.3	---	---	---	8.2	7.7	7.9
MONTH	11.8	10.7	11.3	11.6	10.1	10.9	10.8	9.3	10.2	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.3	7.7	8.0	8.3	8.0	8.1	7.6	7.0	7.3	6.9	6.7	6.8
2	8.3	7.7	7.9	8.2	7.6	8.0	7.4	7.0	7.2	7.0	6.4	6.7
3	8.3	7.7	8.0	8.2	7.6	7.9	7.5	7.0	7.2	6.9	6.4	6.6
4	8.1	7.6	7.8	8.1	7.6	7.8	7.4	6.9	7.1	7.1	6.5	6.8
5	8.4	7.6	8.0	8.0	7.6	7.8	7.5	6.9	7.2	7.2	6.7	6.9
6	8.5	8.1	8.3	8.0	7.5	7.7	7.4	6.9	7.1	7.2	6.8	6.9
7	8.5	8.1	8.4	8.0	7.6	7.7	7.4	6.9	7.1	7.2	6.7	6.9
8	8.4	8.2	8.3	7.8	7.5	7.6	7.3	6.9	7.1	7.3	6.8	7.1
9	8.2	8.2	8.2	7.9	7.4	7.7	---	---	---	7.5	7.1	7.3
10	8.3	8.2	8.3	7.8	7.4	7.6	7.5	6.9	7.2	7.9	7.2	7.5
11	8.3	8.1	8.2	7.8	7.4	7.5	7.5	7.0	7.2	7.6	7.1	7.3
12	8.3	8.0	8.2	7.9	7.4	7.5	7.5	7.1	7.3	7.5	7.0	7.2
13	8.3	8.0	8.2	7.8	7.3	7.5	7.6	7.1	7.4	7.3	6.7	7.0
14	8.3	8.0	8.2	7.8	7.3	7.6	7.6	7.1	7.3	7.5	6.6	7.0
15	8.4	8.1	8.2	7.9	7.4	7.6	7.7	7.2	7.4	7.1	6.5	6.8
16	8.3	8.0	8.2	7.8	7.5	7.6	7.8	7.2	7.5	6.9	6.1	6.6
17	8.4	8.3	8.3	7.8	7.2	7.5	8.2	7.3	7.8	6.9	6.4	6.7
18	8.4	8.3	8.3	7.5	7.2	7.3	8.0	7.7	7.8	7.2	6.6	6.9
19	8.3	7.9	8.1	7.6	7.3	7.4	7.8	7.5	7.7	7.2	6.7	7.0
20	8.2	7.9	8.0	7.6	7.1	7.3	7.7	7.2	7.5	7.2	6.7	7.0
21	8.3	7.9	8.0	7.5	6.9	7.2	7.8	7.3	7.4	7.4	7.0	7.2
22	8.4	7.9	8.1	7.6	6.9	7.2	7.6	7.2	7.4	7.2	7.0	7.1
23	8.3	7.9	8.1	7.5	6.9	7.2	7.4	7.2	7.3	7.2	6.9	7.1
24	8.3	8.1	8.2	7.5	6.9	7.2	7.4	7.2	7.3	7.2	6.0	6.6
25	8.3	8.0	8.2	7.5	6.9	7.2	7.2	6.9	7.1	6.5	5.9	6.2
26	8.3	7.7	8.0	7.6	7.0	7.3	7.0	6.4	6.7	6.4	5.9	6.1
27	8.0	7.5	7.8	7.6	7.0	7.2	6.7	6.4	6.6	6.3	5.9	6.1
28	8.1	7.6	7.9	7.5	6.9	7.2	6.8	6.5	6.7	6.5	6.0	6.2
29	8.1	7.6	7.9	7.3	6.9	7.1	6.8	6.6	6.7	5.7	6.1	6.4
30	8.1	7.7	7.9	7.5	7.0	7.2	6.9	6.6	6.7	5.8	6.1	6.4
31	---	---	---	7.5	6.9	7.2	6.9	6.7	6.8	---	---	---
MONTH	8.5	7.5	8.1	8.3	6.9	7.5	---	---	---	7.9	5.9	6.8

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.--Estimated daily discharges: Aug. 9. Records good. Occasional regulation from Fern Lake.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	6.1	23	21	62	68	312	792	354	52	28	6.7
2	8.8	9.1	15	21	53	64	214	432	100	37	21	6.7
3	8.3	11	13	25	255	63	179	340	70	31	19	5.9
4	8.5	17	16	60	633	59	265	368	90	30	17	6.2
5	8.7	12	15	58	274	56	212	387	195	46	16	6.2
6	9.5	10	13	49	189	54	174	270	145	28	15	6.8
7	10	17	12	181	176	53	142	315	99	26	14	6.7
8	9.0	16	11	302	202	100	150	300	75	25	13	9.2
9	9.1	16	28	139	204	1040	341	309	167	86	14	7.4
10	11	12	98	89	234	349	381	1100	155	48	16	5.8
11	10	13	63	64	299	199	330	723	116	31	20	5.4
12	11	10	34	52	279	148	232	348	97	26	15	5.3
13	10	9.9	22	49	193	124	178	226	163	24	13	5.4
14	18	35	19	40	150	110	183	165	126	59	16	6.2
15	15	21	15	50	122	97	147	131	176	27	25	5.5
16	10	13	13	65	116	100	1040	111	119	23	149	5.3
17	9.8	11	12	65	186	96	2010	96	86	22	167	5.3
18	10	9.7	11	59	299	438	763	82	67	20	54	5.3
19	10	8.9	11	74	232	641	5660	72	60	18	33	5.3
20	11	8.4	10	63	181	1090	1420	66	52	18	24	5.9
21	11	51	11	56	144	589	499	61	67	18	18	7.1
22	11	80	58	61	121	307	511	57	61	19	15	8.5
23	12	28	30	197	111	217	379	64	72	38	13	7.0
24	13	17	50	192	98	171	278	58	44	61	13	6.1
25	19	13	67	123	84	147	210	51	35	36	11	5.9
26	49	11	42	92	77	125	169	100	32	24	9.7	5.7
27	36	10	52	96	75	110	185	57	30	20	9.3	5.5
28	9.5	9.7	40	127	68	101	177	49	28	19	8.8	6.3
29	6.7	9.0	33	106	---	89	149	42	31	17	7.6	6.0
30	6.0	17	32	90	---	82	177	39	73	21	7.3	5.7
31	5.6	---	27	74	---	75	---	37	---	59	7.3	---
TOTAL	386.5	511.8	896	2740	5117	6962	17067	7248	2985	1009	809.0	186.3
MEAN	12.5	17.1	28.9	88.4	183	225	569	234	99.5	32.5	26.1	6.21
MAX	49	80	98	302	633	1090	5660	1100	354	86	167	9.2
MIN	5.6	6.1	10	21	53	53	142	37	28	17	7.3	5.3
CFSM	.21	.28	.48	1.46	3.02	3.71	9.39	3.86	1.64	.54	.43	.10
IN.	.24	.31	.55	1.68	3.14	4.27	10.48	4.45	1.83	.62	.50	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1998, BY WATER YEAR (WY)

	MEAN	25.2	79.8	167	212	234	258	180	121	67.8	52.3	36.0	19.8
MAX	155	416	609	551	677	610	569	539	298	345	197	109	
(WY)	1978	1974	1991	1974	1991	1975	1998	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 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1941 - 1998	
ANNUAL TOTAL	40032.6		45917.6			
ANNUAL MEAN	110		126		121	
HIGHEST ANNUAL MEAN					219	
LOWEST ANNUAL MEAN					49.5	
HIGHEST DAILY MEAN	3800		Mar 3		7000	
LOWEST DAILY MEAN	5.6		Oct 31		1.2	
ANNUAL SEVEN-DAY MINIMUM	7.6		Sep 2		1.6	
INSTANTANEOUS PEAK FLOW			7050		Apr 19	
INSTANTANEOUS PEAK STAGE			18.93		Apr 19	
INSTANTANEOUS LOW FLOW			5.3		Sep 12	
ANNUAL RUNOFF (CFSM)	1.81		2.08		1.99	
ANNUAL RUNOFF (INCHES)	24.57		28.19		27.03	
10 PERCENT EXCEEDS	216		278		257	
50 PERCENT EXCEEDS	52		49		46	
90 PERCENT EXCEEDS	9.0		8.4		7.8	

CUMBERLAND RIVER BASIN

03402900 CUMBERLAND RIVER AT PINE STREET BRIDGE AT PINEVILLE, KY

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

DRAINAGE AREA.--770 mi².

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

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

REMARKS.--Estimated daily discharges: Aug. 9. Records good. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	93	189	434	1380	1050	2510	4880	1190	622	345	152
2	90	95	298	353	1180	991	2880	4610	798	558	357	142
3	82	100	350	359	1230	930	2310	3650	680	489	248	135
4	77	130	294	577	4950	889	3810	4790	946	487	205	130
5	74	165	326	833	3620	842	5060	5150	2710	629	183	129
6	71	169	289	841	2550	822	3260	3920	2560	465	164	124
7	70	162	249	1020	2250	815	2480	3240	1840	372	156	119
8	71	179	224	3850	2560	921	2130	3040	1360	338	144	122
9	69	175	258	3530	2750	4580	2590	3110	1450	374	160	135
10	67	163	624	2040	3500	3980	3680	5050	2830	463	187	150
11	77	170	1050	1450	3850	2560	4680	7800	2690	375	195	121
12	74	158	847	1160	4290	1990	3730	4930	2110	310	218	107
13	73	154	631	999	3370	1670	2800	3490	2890	277	192	101
14	73	177	471	882	2470	1440	2410	2690	2800	306	345	98
15	83	279	391	807	1930	1240	2090	2170	2790	275	806	101
16	84	239	333	819	1680	1170	4870	1680	2250	266	1100	95
17	78	193	270	839	1810	1270	18900	1360	1700	258	2980	92
18	74	169	236	842	3450	2230	11800	1190	1310	243	1620	91
19	75	159	218	905	3260	8190	25900	1070	1130	224	921	88
20	75	152	201	988	2620	7280	24400	923	975	210	692	89
21	74	222	184	982	2160	6960	11100	810	886	256	533	93
22	74	619	271	961	1810	4550	8220	772	939	252	366	92
23	74	577	353	1280	1670	3360	6740	870	953	226	291	94
24	75	370	355	2130	1650	2730	4820	1330	946	391	257	78
25	85	266	488	1900	1550	2330	3510	962	771	388	234	94
26	116	275	521	1460	1440	2080	2870	1960	689	271	218	88
27	234	262	481	1250	1320	1840	2570	1420	607	227	213	81
28	235	221	486	1830	1140	1580	2720	1150	492	204	191	79
29	165	202	423	1870	---	1400	2320	943	443	186	171	77
30	124	181	412	1720	---	1300	2140	818	614	176	159	81
31	104	---	485	1650	---	1200	---	698	---	297	154	---
TOTAL	2896	6476	12208	40561	67440	74190	179300	80476	44349	10415	14005	3178
MEAN	93.4	216	394	1308	2409	2393	5977	2596	1478	336	452	106
MAX	235	619	1050	3850	4950	8190	25900	7800	2890	629	2980	152
MIN	67	93	184	353	1140	815	2090	698	443	176	144	77
CFSM	.12	.28	.51	1.70	3.13	3.11	7.76	3.37	1.92	.44	.59	.14
IN.	.14	.31	.59	1.96	3.26	3.58	8.66	3.89	2.14	.50	.68	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1998, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998
MEAN	259	927	2284	2498	2746	3626	2549
MAX	670	3009	5204	4201	6720	5367	5977
(WY)	1997	1997	1992	1994	1994	1998	1995
MIN	93.4	216	394	1308	1020	2139	817
(WY)	1998	1998	1998	1998	1992	1992	1993

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1992 - 1998
ANNUAL TOTAL	463870	535494	
ANNUAL MEAN	1271	1467	1564
HIGHEST ANNUAL MEAN			2241
LOWEST ANNUAL MEAN			1104
HIGHEST DAILY MEAN	21200	Mar 3	30800
LOWEST DAILY MEAN	67	Oct 10	55
ANNUAL SEVEN-DAY MINIMUM	71	Oct 4	57
INSTANTANEOUS PEAK FLOW			38700
INSTANTANEOUS PEAK STAGE		42.69	43.67
INSTANTANEOUS LOW FLOW		67	51
ANNUAL RUNOFF (CFSM)	1.65	1.91	2.03
ANNUAL RUNOFF (INCHES)	22.41	25.87	27.59
10 PERCENT EXCEEDS	2780	3500	3360
50 PERCENT EXCEEDS	639	629	781
90 PERCENT EXCEEDS	84	93	135

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. Datum of gage is 921.83 ft above sea level.

REMARKS.--Estimated daily discharges: Aug. 9. Records good except for period of estimated record, which is fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	20	74	139	280	283	778	2820	1360	181	332	41
2	19	19	119	137	251	264	821	2680	904	130	148	39
3	17	22	82	152	426	247	672	1640	507	107	99	37
4	16	27	68	256	3650	230	1240	1510	388	99	77	36
5	16	29	65	355	1680	218	1080	1660	797	111	63	36
6	15	32	61	341	1070	202	855	1230	1040	98	54	35
7	15	34	48	564	897	198	695	1210	628	82	51	34
8	14	38	43	2950	942	276	618	1550	420	75	46	35
9	14	45	58	1090	1190	3180	1170	1270	587	105	49	32
10	15	44	274	606	1640	1890	1260	3580	1560	146	58	30
11	16	40	428	421	2020	1030	1110	5410	1360	94	76	26
12	17	37	246	334	2200	748	893	1960	858	75	76	26
13	17	34	171	286	1330	597	733	1210	694	68	54	26
14	26	56	131	240	939	526	749	863	541	66	54	24
15	29	147	113	238	710	452	739	658	636	68	173	23
16	34	89	100	347	612	423	2520	523	483	61	737	22
17	26	51	90	416	677	433	8230	446	341	58	1480	21
18	22	38	83	402	1440	641	3580	364	262	57	505	20
19	23	33	78	415	1200	2350	11200	307	222	52	258	20
20	21	30	72	425	928	4780	11900	272	210	50	168	20
21	19	46	70	382	740	4330	3780	248	192	47	124	20
22	19	376	113	350	591	1800	2160	224	214	51	101	19
23	19	267	187	545	538	1240	2170	217	184	65	86	18
24	17	135	171	955	467	952	1610	208	159	251	76	17
25	18	73	267	720	391	769	1180	188	134	247	68	17
26	34	51	255	527	347	648	918	276	133	132	62	17
27	125	44	223	426	334	554	798	235	126	89	58	16
28	65	38	209	462	307	491	879	199	109	71	53	16
29	37	34	186	409	---	436	706	173	97	63	48	16
30	28	36	187	368	---	387	759	152	241	56	46	17
31	22	---	174	321	---	349	---	138	---	271	43	---
TOTAL	795	1965	4446	15579	27797	30924	65803	33421	15387	3126	5323	756
MEAN	25.6	65.5	143	503	993	998	2193	1078	513	101	172	25.2
MAX	125	376	428	2950	3650	4780	11900	5410	1560	271	1480	41
MIN	14	19	43	137	251	198	618	138	97	47	43	16
CFSM	.08	.20	.43	1.52	3.00	3.01	6.63	3.26	1.55	.30	.52	.08
IN.	.09	.22	.50	1.75	3.12	3.48	7.40	3.76	1.73	.35	.60	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1998, BY WATER YEAR (WY)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	
MEAN	187	483	681	932	948	1057	841	707	430	200	185	137																				
MAX	1472	1624	1824	2534	1418	3356	2193	2087	1923	659	557	707																				
(WY)	1990	1974	1973	1974	1990	1975	1998	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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1968 - 1998
ANNUAL TOTAL	195425	205322	
ANNUAL MEAN	535	563	565
HIGHEST ANNUAL MEAN			894
LOWEST ANNUAL MEAN			233
HIGHEST DAILY MEAN	9260	Mar 4	11900
LOWEST DAILY MEAN	13	Sep 5	14
ANNUAL SEVEN-DAY MINIMUM	15	Sep 2	15
INSTANTANEOUS PEAK FLOW			14500
INSTANTANEOUS PEAK STAGE			33.01
INSTANTANEOUS LOW FLOW			13
ANNUAL RUNOFF (CFSM)	1.62	1.70	1.71
ANNUAL RUNOFF (INCHES)	21.96	23.08	23.18
10 PERCENT EXCEEDS	1250	1290	1200
50 PERCENT EXCEEDS	232	198	267
90 PERCENT EXCEEDS	19	22	38

CUMBERLAND RIVER BASIN

03404000 CUMBERLAND RIVER AT WILLIAMSBURG, KY

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

DRAINAGE AREA.--1,607 mi².

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

REVISED RECORDS.--WSP 1436: Drainage area.

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	187	495	828	2250	1870	2550	10200	3850	1040	1230	231
2	149	160	529	776	1930	1730	4420	14400	3270	970	816	221
3	145	147	542	704	1820	1630	4520	11500	1820	832	614	211
4	131	152	610	731	6620	1520	4600	8730	1530	703	483	195
5	121	162	590	1060	8820	1440	6430	9560	2740	727	374	185
6	112	190	581	1420	6660	1340	7210	9100	5220	906	314	179
7	105	233	585	1680	5020	1280	5210	7180	4250	736	274	170
8	100	265	504	5100	4720	1310	4020	6710	2970	594	246	180
9	96	271	468	6230	5590	4450	4110	5990	2590	617	244	170
10	95	300	662	5230	6780	9000	5010	6980	4730	708	276	174
11	95	299	1460	3330	7910	6930	6120	14000	5970	671	432	174
12	93	277	1780	2370	8380	4610	6630	12400	4800	593	460	188
13	89	268	1420	1890	7330	3540	5490	8510	4030	490	366	169
14	108	294	1050	1600	5640	2970	4450	5780	5220	479	349	149
15	116	422	805	1410	4240	2590	4080	4360	5460	519	1750	138
16	131	544	660	1450	3400	2240	5400	3480	5140	470	2630	133
17	132	500	572	1540	3060	2180	19300	2800	3890	432	4610	130
18	132	390	507	1590	4290	2330	22700	2280	2740	423	5310	125
19	127	323	433	1600	6020	6660	29000	1940	2080	384	2880	121
20	116	275	394	1800	5540	14000	35000	1670	1770	354	1550	118
21	110	324	367	1840	4530	18200	35500	1470	1810	322	1080	112
22	109	815	394	1770	3720	14200	32800	1290	2270	313	839	109
23	108	1360	538	1980	3190	9440	28200	1260	1860	400	652	110
24	106	1080	662	3250	2900	6330	22100	1480	1580	599	512	109
25	111	732	765	3940	2680	4920	14600	1980	1440	711	437	109
26	120	536	890	3280	2440	4120	7090	2030	1180	668	387	108
27	166	443	941	2540	2260	3560	5030	2860	1020	498	350	103
28	254	427	940	2250	2090	3110	4990	2170	902	392	327	106
29	342	385	918	2670	---	2720	4740	1680	771	340	305	105
30	297	349	875	2670	---	2410	4350	1380	841	303	272	103
31	223	---	837	2430	---	2190	---	1200	---	390	248	---
TOTAL	4293	12110	22774	70959	129830	144820	345650	166370	87744	17584	30617	4435
MEAN	138	404	735	2289	4637	4672	11520	5367	2925	567	988	148
MAX	342	1360	1780	6230	8820	18200	35500	14400	5970	1040	5310	231
MIN	89	147	367	704	1820	1280	2550	1200	771	303	244	103
CFSM	.09	.25	.46	1.42	2.89	2.91	7.17	3.34	1.82	.35	.61	.09
IN.	.10	.28	.53	1.64	3.01	3.35	8.00	3.85	2.03	.41	.71	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1998, BY WATER YEAR (WY)

	MEAN	623	1771	3683	4663	5240	6072	4380	2990	1597	936	683	463
MAX	4413	6552	9751	11860	13550	14670	11520	9572	8305	4906	2142	3280	
(WY)	1990	1978	1992	1974	1956	1963	1998	1984	1989	1967	1971	1989	
MIN	10.2	50.6	150	203	1190	1193	730	705	277	122	109	33.3	
(WY)	1954	1954	1966	1981	1968	1988	1986	1962	1988	1952	1954	1953	

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1951 - 1998	
ANNUAL TOTAL	926107		1037186			
ANNUAL MEAN	2537		2842		2747	
HIGHEST ANNUAL MEAN					4390	
LOWEST ANNUAL MEAN					1159	
HIGHEST DAILY MEAN	28400		Mar 6		47600	
LOWEST DAILY MEAN	89		Oct 13		6.1	
ANNUAL SEVEN-DAY MINIMUM	96		Oct 7		6.9	
INSTANTANEOUS PEAK FLOW			36400		49700	
INSTANTANEOUS PEAK STAGE			30.70		Apr 21	
INSTANTANEOUS LOW FLOW					35.03	
ANNUAL RUNOFF (CFSM)	1.58		1.77		1.71	
ANNUAL RUNOFF (INCHES)	21.44		24.01		23.23	
10 PERCENT EXCEEDS	5710		6640		6590	
50 PERCENT EXCEEDS	1110		1180		1220	
90 PERCENT EXCEEDS	132		132		164	

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. Datum of gage is 1,049.00 ft above sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--No estimated daily discharges. Record good except for discharges below 2.0 ft³/s, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	5.4	59	41	35	46	154	732	140	28	61	11
2	4.0	10	47	40	33	44	81	417	44	19	27	10
3	3.0	11	37	54	50	42	78	287	33	16	18	7.3
4	2.7	10	46	62	211	40	243	348	216	17	13	6.8
5	2.3	8.5	49	57	173	38	138	315	308	27	9.7	5.9
6	1.9	10	47	105	142	35	96	189	142	17	7.5	6.9
7	1.7	18	38	341	142	33	73	242	76	15	6.1	9.3
8	1.8	16	34	454	183	42	62	210	52	100	4.7	24
9	1.6	16	48	161	332	271	65	172	222	46	10	17
10	2.1	14	153	95	391	150	77	234	260	29	12	9.2
11	2.1	12	90	71	320	95	63	276	119	21	9.8	7.1
12	2.2	12	58	59	225	74	51	171	78	12	8.1	5.8
13	2.3	13	47	53	148	63	46	119	355	7.7	5.7	5.2
14	15	97	40	47	108	56	66	87	169	54	348	5.9
15	12	50	34	53	82	49	56	67	244	23	348	7.9
16	7.3	29	29	60	71	49	834	52	123	21	103	8.3
17	5.1	21	28	55	76	54	4530	46	74	28	731	8.8
18	4.3	17	26	53	161	121	735	39	54	16	167	8.7
19	3.5	14	24	60	113	193	2020	34	51	9.8	72	7.9
20	3.7	12	23	58	91	686	720	30	45	19	46	7.8
21	3.8	74	24	51	75	500	288	27	149	20	32	8.3
22	3.8	110	41	58	65	242	404	30	109	75	25	5.6
23	3.8	52	36	198	72	159	451	109	75	117	22	2.8
24	5.0	38	43	150	62	113	239	83	52	40	19	2.4
25	6.0	30	59	96	53	90	163	38	40	26	15	2.0
26	9.7	26	44	73	48	75	122	97	34	18	13	1.8
27	12	23	49	62	46	61	134	48	29	13	12	1.7
28	9.4	20	50	55	45	54	160	36	25	11	11	1.1
29	6.8	18	46	49	---	49	102	28	25	8.8	9.2	1.3
30	5.6	23	49	43	---	44	132	23	61	12	7.5	1.3
31	4.2	---	48	39	---	41	---	24	---	185	8.7	---
TOTAL	153.8	809.9	1446	2853	3553	3609	12383	4610	3404	1051.3	2182.0	209.1
MEAN	4.96	27.0	46.6	92.0	127	116	413	149	113	33.9	70.4	6.97
MAX	15	110	153	454	391	686	4530	732	355	185	731	24
MIN	1.6	5.4	23	39	33	33	46	23	25	7.7	4.7	1.1
CFSM	.09	.50	.87	1.71	2.36	2.16	7.67	2.76	2.11	.63	1.31	.13
IN.	.11	.56	1.00	1.97	2.46	2.50	8.56	3.19	2.35	.73	1.51	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1998, BY WATER YEAR (WY)

MEAN	32.0	89.6	120	154	159	165	115	97.0	59.7	38.6	27.7	29.1
MAX	133	267	378	372	326	458	413	387	203	110	78.4	100
(WY)	1990	1974	1991	1974	1994	1975	1998	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 1997 CALENDAR YEAR

FOR 1998 WATER YEAR

WATER YEARS 1967 - 1998

ANNUAL TOTAL	31451.3	36264.1		
ANNUAL MEAN	86.2	99.4		
HIGHEST ANNUAL MEAN			141	1994
LOWEST ANNUAL MEAN			36.5	1988
HIGHEST DAILY MEAN	1920	Mar 3	4530	Apr 17 1998
LOWEST DAILY MEAN	1.2	Sep 7	1.1	Sep 28 1988
ANNUAL SEVEN-DAY MINIMUM	1.9	Oct 6	1.7	Sep 24 1988
INSTANTANEOUS PEAK FLOW			6820	Apr 17 1957
INSTANTANEOUS PEAK STAGE			14.33	Apr 17 1957
INSTANTANEOUS LOW FLOW				.02 Jun 24 1988
ANNUAL RUNOFF (CFSM)	1.60		1.85	1.68
ANNUAL RUNOFF (INCHES)	21.75		25.07	22.79
10 PERCENT EXCEEDS	184		218	200
50 PERCENT EXCEEDS	39		45	38
90 PERCENT EXCEEDS	4.4		5.8	3.8

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: Nov. 30. Records good except for period of estimated record, which is fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	75	215	315	489	690	831	5450	374	373	105	24
2	42	95	367	281	442	636	1310	6280	474	302	110	24
3	44	121	333	291	414	589	1080	3060	339	248	95	23
4	41	168	300	374	605	556	2210	2350	543	287	78	22
5	36	177	294	478	929	531	3140	3340	2270	322	67	22
6	33	172	275	868	933	498	1960	2430	2800	371	59	21
7	30	161	255	5060	1000	468	1460	2030	1650	262	52	20
8	28	157	232	19600	1200	479	1260	4460	1070	227	47	21
9	28	172	230	7710	1920	2200	1970	3070	1120	795	44	20
10	29	166	398	2680	3780	3220	2500	2270	3850	508	43	18
11	29	161	1010	1690	4710	1950	2320	2420	7220	337	49	17
12	29	145	772	1260	8290	1480	1790	2060	4140	252	61	17
13	29	132	579	1030	4980	1190	1420	1530	3530	202	52	17
14	39	171	460	835	2820	1020	1200	1160	2910	244	50	17
15	38	434	379	792	1940	869	1060	878	5460	321	57	16
16	38	419	318	1060	1550	748	2460	690	4070	282	63	14
17	41	307	277	1040	1410	700	16300	561	2020	259	59	15
18	45	244	248	979	1950	673	7070	452	1260	262	55	15
19	49	206	224	899	2530	1230	11100	378	929	218	54	19
20	44	180	203	824	2470	2760	9630	331	895	208	66	35
21	40	201	189	719	1950	6360	3730	363	657	272	57	79
22	38	633	187	657	1540	3780	3130	413	700	280	45	70
23	36	748	194	1230	1310	2550	3760	373	1170	862	40	45
24	36	512	212	2490	1160	1850	2610	874	1270	499	35	40
25	38	381	273	1810	954	1430	1910	675	797	306	31	45
26	74	307	398	1360	823	1260	1490	635	572	220	29	34
27	190	262	408	1090	759	1040	1250	714	432	174	27	27
28	238	228	396	903	724	903	1250	865	351	144	26	24
29	153	201	386	755	---	797	1040	658	296	123	24	23
30	110	190	376	645	---	701	1120	479	292	109	24	21
31	85	---	359	556	---	630	---	384	---	109	24	---
TOTAL	1777	7526	10747	60281	53582	43788	93361	51633	53461	9378	1628	805
MEAN	57.3	251	347	1945	1914	1413	3112	1666	1782	303	52.5	26.8
MAX	238	748	1010	19600	8290	6360	16300	6280	7220	862	110	79
MIN	28	75	187	281	414	468	831	331	292	109	24	14
CFSM	.09	.42	.57	3.22	3.17	2.34	5.15	2.76	2.95	.50	.09	.04
IN.	.11	.46	.66	3.71	3.30	2.70	5.75	3.18	3.29	.58	.10	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1998, BY WATER YEAR (WY)

	201	581	1271	1694	1925	2024	1484	980	582	362	199	155
MEAN	201	581	1271	1694	1925	2024	1484	980	582	362	199	155
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 1997 CALENDAR YEAR FOR 1998 WATER YEAR WATER YEARS 1936 - 1998

ANNUAL TOTAL	360536	387967	
ANNUAL MEAN	988	1063	
HIGHEST ANNUAL MEAN			951
LOWEST ANNUAL MEAN			1575
HIGHEST DAILY MEAN			345
LOWEST DAILY MEAN			46200
ANNUAL SEVEN-DAY MINIMUM	23000	Mar 4	19600
INSTANTANEOUS PEAK FLOW	22	Sep 7	14
INSTANTANEOUS PEAK STAGE	25	Sep 2	16
INSTANTANEOUS LOW FLOW			21200
ANNUAL RUNOFF (CFSM)	1.64		1.76
ANNUAL RUNOFF (INCHES)	22.21		23.89
10 PERCENT EXCEEDS	2120		2570
50 PERCENT EXCEEDS	341		398
90 PERCENT EXCEEDS	45		31

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.--No estimated daily discharges. Records good.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	110	696	729	1280	1080	1190	14700	12500	315	1600	102
2	79	101	1020	649	1130	997	2570	11300	6930	314	809	94
3	69	96	725	689	1110	927	2040	8160	5060	298	465	85
4	64	92	581	1120	7350	870	3380	5480	2320	251	320	75
5	61	113	532	1810	6490	812	4090	4530	2330	225	243	69
6	59	131	504	2180	4330	755	2910	3520	4750	212	193	65
7	55	144	430	10800	3480	720	2250	2980	3450	190	161	62
8	52	149	371	27800	3370	828	1910	3650	2100	180	139	59
9	48	143	367	9180	4330	6450	4690	3170	2200	226	134	55
10	45	136	704	4520	6710	7100	5140	4760	9600	220	197	48
11	45	142	1650	2930	8630	3800	3640	13400	11200	216	309	42
12	44	136	1310	2190	11400	2700	2790	6250	6120	207	260	42
13	42	130	914	1780	6820	2120	2230	3740	3880	186	188	39
14	49	175	710	1480	4470	1810	2010	2590	2530	169	661	40
15	68	271	581	1360	3260	1580	2410	1910	3140	166	2000	39
16	66	461	488	2010	2650	1370	3350	1450	3200	154	4570	38
17	63	343	423	4510	2650	1320	30100	1160	2010	164	9330	38
18	54	255	382	3630	5930	1320	12800	937	1360	162	2920	37
19	49	203	347	2770	5850	3170	28500	761	1050	147	1420	36
20	49	170	314	2490	4060	10700	19600	637	980	139	877	33
21	65	191	294	2090	3060	14300	7420	542	968	131	614	33
22	65	689	363	1830	2400	6500	5230	484	945	124	459	34
23	61	1510	590	2330	2050	4290	5260	461	907	127	364	34
24	59	820	770	3960	1850	3200	4570	432	749	267	296	31
25	69	541	1000	3360	1550	2520	3500	407	627	631	248	29
26	94	401	1360	2520	1340	2060	2730	565	502	409	210	28
27	111	327	1090	2030	1240	1740	2240	655	507	336	177	28
28	378	272	977	1990	1190	1510	2360	664	428	254	155	28
29	285	246	870	1930	---	1340	2180	487	356	201	135	28
30	181	230	837	1720	---	1190	2000	384	320	166	122	28
31	133	---	822	1480	---	1060	---	323	---	630	112	---
TOTAL	2659	8728	22022	109867	109980	90139	175090	100489	93019	7417	29688	1399
MEAN	85.8	291	710	3544	3928	2908	5836	3242	3101	239	958	46.6
MAX	378	1510	1650	27800	11400	14300	30100	14700	12500	631	9330	102
MIN	42	92	294	649	1110	720	1190	323	320	124	112	28
CFSM	.09	.30	.74	3.71	4.12	3.05	6.12	3.40	3.25	.25	1.00	.05
IN.	.10	.34	.86	4.28	4.29	3.51	6.83	3.92	3.63	.29	1.16	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1998, BY WATER YEAR (WY)

	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	
MEAN	397	1278	2669	3347	3551	3700	2571	1742	987	599	414	360	2553	4556	7388	9615	8747	10580	6038	6555	5152	3772	2997	2983	1990	1958	1991	1950	1956	1975	1977	1984	1989	1967	1971	1982	20.8	30.6	150	145	725	1248	568	224	72.8	34.5	65.4	29.6	1954	1954	1964	1981	1968	1985	1986	1948	1988
MAX	2553	4556	7388	9615	8747	10580	6038	6555	5152	3772	2997	2983	1990	1958	1991	1950	1956	1975	1977	1984	1989	1967	1971	1982	20.8	30.6	150	145	725	1248	568	224	72.8	34.5	65.4	29.6	1954	1954	1964	1981	1968	1985	1986	1948	1988												
MIN	20.8	30.6	150	145	725	1248	568	224	72.8	34.5	65.4	29.6	1954	1954	1964	1981	1968	1985	1986	1948	1988																																				

SUMMARY STATISTICS FOR 1997 CALENDAR YEAR FOR 1998 WATER YEAR WATER YEARS 1943 - 1998

	1997	1998	1943-1998
ANNUAL TOTAL	671575	750497	
ANNUAL MEAN	1840	2056	1794
HIGHEST ANNUAL MEAN			3023
LOWEST ANNUAL MEAN			810
HIGHEST DAILY MEAN	32400	30100	80200
LOWEST DAILY MEAN	38	28	11
ANNUAL SEVEN-DAY MINIMUM	43	29	12
INSTANTANEOUS PEAK FLOW		41400	93200
INSTANTANEOUS PEAK STAGE		29.26	46.29
INSTANTANEOUS LOW FLOW			11
ANNUAL RUNOFF (CFSM)	1.93	2.16	1.88
ANNUAL RUNOFF (INCHES)	26.19	29.26	25.54
10 PERCENT EXCEEDS	3870	5090	4100
50 PERCENT EXCEEDS	725	725	725
90 PERCENT EXCEEDS	63	60	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: May 22-27. Records good except for period of estimated record, which is poor.

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

REVISIONS.--The peak discharges and annual maximum (*) reported for water years 1990-1996 have been revised as shown in the following table. They supercede figures published in the reports for 1990-1996.

Water year	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Water year	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
1990	Oct. 1 1989	0700	1,740	5.97	1992	Jun. 18 1992	2030	*1,760	*6.01
1990	Oct. 17 1989	1100	*2,970	*8.37	993	Feb. 21 1993	1730	*1,310	*5.27
1990	Dec. 31 1989	1100	1,200	5.15	1994	Jan. 7 1994	1400	1,780	6.07
1990	Jan. 29 1990	1630	991	4.90	1994	Feb. 23 1994	0730	1,910	6.32
1990	Feb. 10 1990	0600	1,510	5.57	1994	Mar. 28 1994	0430	1,710	5.92
1991	Dec. 23 1990	0630	*2,710	*7.89	1994	Apr. 11 1994	1500	*2,820	*8.10
1991	Dec. 28 1990	0230	1,050	4.97	1995	Feb. 15 1995	1000	*1,540	*5.62
1991	Dec. 30 1990	2300	1,670	5.85	1996	Nov. 7 1995	1300	*1,690	*5.88
1991	Feb. 18 1991	0500	1,610	5.76	1996	Mar. 6 1996	1230	1,610	5.75
1991	Mar. 29 1991	1030	1,050	4.97					

CUMBERLAND RIVER BASIN

03413200 BEAVER CREEK NEAR MONTICELLO, KY--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	4.4	2.5	10	15	28	92	270	1560	13	23	2.6
2	2.5	4.9	2.4	12	13	24	55	176	216	12	12	2.3
3	2.5	5.1	2.3	29	23	22	95	155	98	12	9.1	2.0
4	2.7	5.5	2.3	30	167	20	488	136	123	12	6.7	1.8
5	2.6	5.1	2.4	26	123	18	180	126	244	11	5.8	1.8
6	2.7	5.2	2.5	70	105	17	116	94	221	11	5.2	1.8
7	2.7	7.6	2.5	1070	101	16	86	108	114	10	4.4	1.8
8	2.9	7.3	2.5	719	127	22	78	114	71	12	3.8	1.9
9	3.4	5.5	2.8	179	242	244	151	81	518	13	4.7	1.7
10	4.0	4.4	4.1	91	440	104	124	216	359	11	10	1.7
11	3.9	3.9	28	62	1240	69	101	280	176	9.3	8.6	1.7
12	3.8	3.4	14	45	1010	55	81	160	118	8.7	5.8	1.7
13	4.5	3.3	10	33	390	49	68	109	99	8.0	5.0	1.7
14	6.4	6.4	8.3	26	216	42	101	77	74	7.7	4.9	1.6
15	6.2	7.5	6.9	26	126	34	91	59	99	7.4	4.7	1.5
16	5.1	5.2	5.5	32	91	30	834	42	61	6.8	6.0	1.6
17	4.2	3.3	5.1	35	113	32	1580	34	42	6.9	9.8	1.6
18	4.0	2.6	4.4	29	345	36	382	27	32	6.4	9.1	1.6
19	4.0	2.4	3.8	26	245	62	1050	23	28	5.6	6.7	1.7
20	3.9	2.2	3.7	26	171	728	344	21	25	6.3	5.1	1.7
21	3.7	12	3.6	23	111	306	196	18	59	6.0	4.7	1.7
22	3.4	29	3.7	22	80	175	177	24	43	5.1	4.2	1.7
23	3.3	13	3.6	87	74	119	186	33	27	6.0	3.9	1.8
24	4.4	8.2	5.9	84	55	86	140	26	26	12	3.8	1.8
25	4.6	5.4	17	59	41	66	109	300	23	16	3.5	2.0
26	4.9	3.5	14	45	36	55	86	50	20	7.4	3.1	2.0
27	4.9	2.9	12	37	33	47	71	28	17	6.2	2.8	2.0
28	4.9	2.6	11	32	29	39	70	22	15	5.7	2.8	1.6
29	4.3	2.4	11	28	---	30	56	18	14	5.6	2.8	1.8
30	4.1	2.5	12	25	---	25	86	17	14	6.4	2.8	1.9
31	3.4	---	11	19	---	24	---	16	---	39	2.7	---
TOTAL	120.6	176.7	257.7	3037	5762	2624	7274	2860	4536	305.5	187.5	54.1
MEAN	3.89	5.89	8.31	98.0	206	84.6	242	92.3	151	9.85	6.05	1.80
MAX	6.4	29	41	1070	1240	728	1580	300	1560	39	23	2.6
MIN	2.5	2.2	2.3	10	13	16	55	16	14	5.1	2.7	1.5
CFSM	.09	.14	.19	2.26	4.74	1.95	5.59	2.13	3.48	.23	.14	.04
IN.	.10	.15	.22	2.60	4.94	2.25	6.23	2.45	3.89	.26	.16	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1998, BY WATER YEAR (WY)

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
MEAN	23.0	35.8	100	118	119	137	117	58.8	48.7	17.0	17.5	15.6								
MAX	281	109	459	265	225	479	242	215	193	101	124	106								
(WY)	1990	1980	1991	1974	1991	1975	1998	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 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1969 - 1998	
ANNUAL TOTAL	19765.6		27195.1			
ANNUAL MEAN	54.2		74.5		67.1	
HIGHEST ANNUAL MEAN					103	
LOWEST ANNUAL MEAN					32.5	
HIGHEST DAILY MEAN	1810	Mar 3	1580	Apr 17	4280	Oct 17 1989
LOWEST DAILY MEAN	1.9	Sep 1	1.5	Sep 15	.50	Oct 2 1968
ANNUAL SEVEN-DAY MINIMUM	2.1	Aug 31	1.6	Sep 12	.95	Sep 4 1980
INSTANTANEOUS PEAK FLOW			3130	Apr 17	3130	Apr 17 1998
INSTANTANEOUS PEAK STAGE			8.67	Apr 17	8.67	Apr 17 1998
INSTANTANEOUS LOW FLOW					.50	Oct 2 1968
ANNUAL RUNOFF (CFSM)	1.25		1.72		1.55	
ANNUAL RUNOFF (INCHES)	16.94		23.31		21.01	
10 PERCENT EXCEEDS	116		175		136	
50 PERCENT EXCEEDS	12		15		21	
90 PERCENT EXCEEDS	2.5		2.5		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. June 10-11, 13-15, and Aug. 8-10. Records good except for periods of estimated record, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	37	30	89	114	248	186	913	206	678	244	47
2	31	37	31	82	110	224	201	722	199	476	196	47
3	32	45	37	76	105	209	199	703	182	407	175	45
4	32	48	38	73	99	191	302	667	190	413	161	43
5	32	39	49	75	98	175	321	612	1790	357	150	42
6	35	39	47	119	98	163	276	562	1600	327	141	43
7	34	44	41	334	99	154	246	886	858	305	145	41
8	33	71	38	1010	92	151	235	1040	646	291	e237	37
9	31	57	37	755	89	148	372	749	4380	269	e163	34
10	31	47	51	524	96	148	432	677	e9140	252	e151	33
11	32	41	142	421	105	136	325	623	e7320	236	135	34
12	31	38	101	358	163	124	261	535	3110	220	129	37
13	31	42	74	314	225	120	224	475	e2060	208	129	47
14	39	105	62	274	178	115	503	421	e1800	227	124	41
15	53	112	54	247	152	109	740	371	e1960	371	103	40
16	48	66	49	222	171	105	608	339	1300	439	94	38
17	39	50	46	201	640	105	1600	304	1020	431	86	38
18	35	45	43	180	1330	111	968	274	843	361	81	44
19	33	40	41	165	909	141	671	254	736	302	77	46
20	31	37	40	152	685	488	593	238	662	267	72	36
21	30	37	39	140	579	694	508	224	597	244	71	34
22	32	39	43	133	502	514	464	249	586	225	68	35
23	32	49	68	156	453	427	426	231	520	219	66	37
24	36	45	92	185	401	371	372	204	470	204	65	37
25	40	41	210	181	353	324	323	187	432	191	61	35
26	44	37	190	165	319	288	286	507	400	181	62	34
27	42	37	138	155	300	257	255	524	373	171	59	33
28	37	37	122	147	278	236	237	398	346	166	58	31
29	40	31	112	142	---	213	241	316	325	170	56	29
30	37	30	106	133	---	191	564	269	887	197	53	30
31	37	---	98	123	---	180	---	233	---	230	50	---
TOTAL	1101	1423	2269	7331	8743	7060	12939	14707	44938	9035	3462	1148
MEAN	35.5	47.4	73.2	236	312	228	431	474	1498	291	112	38.3
MAX	53	112	210	1010	1330	694	1600	1040	9140	678	244	47
MIN	30	30	30	73	89	105	186	187	182	166	50	29
CFSM	.15	.19	.30	.97	1.28	.93	1.77	1.94	6.14	1.19	.46	.16
IN.	.17	.22	.35	1.12	1.33	1.08	1.97	2.24	6.85	1.38	.53	.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1998, BY WATER YEAR (WY)

	64.1	211	456	556	694	779	554	415	227	150	94.7	96.7
MEAN	64.1	211	456	556	694	779	554	415	227	150	94.7	96.7
MAX	504	1677	1985	2168	2130	3653	1924	1875	1498	790	381	925
(WY)	1997	1958	1979	1950	1989	1997	1979	1984	1998	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 1997 CALENDAR YEAR

FOR 1998 WATER YEAR

WATER YEARS 1940 - 1998

ANNUAL TOTAL	211659	114156										
ANNUAL MEAN	580	313										
HIGHEST ANNUAL MEAN										357		
LOWEST ANNUAL MEAN										757		1997
HIGHEST DAILY MEAN	24300	Mar 2				9140	Jun 10	24300	Mar 2	58.9		1941
LOWEST DAILY MEAN	30	Oct 21				29	Sep 29	3.6	Oct 3			1941
ANNUAL SEVEN-DAY MINIMUM	32	Oct 7				32	Oct 7	7.0	Oct 24			1940
INSTANTANEOUS PEAK FLOW						12900	Jun 10	37600	Mar 1			1997
INSTANTANEOUS PEAK STAGE						20.23	Jun 10	26.44	Mar 1			1997
INSTANTANEOUS LOW FLOW								1.0	Oct 3			1941
ANNUAL RUNOFF (CFSM)	2.38					1.28		1.46				
ANNUAL RUNOFF (INCHES)	32.27					17.40		19.86				
10 PERCENT EXCEEDS	1010					642		832				
50 PERCENT EXCEEDS	190					154		140				
90 PERCENT EXCEEDS	37					37		28				

TENNESSEE RIVER BASIN

03609750 TENNESSEE RIVER AT HIGHWAY 60, NEAR PADUCAH, KY

(National stream-quality accounting and radiochemical network station)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°02'16", long 88°31'46", McCracken County, Hydrologic unit 06040006, at auxiliary gaging station at bridge on U.S. highway 60, 16.3 mi downstream from gaging station, 2.4 mi east of Paducah, and at mile 5.3.

DRAINAGE AREA.--40,330 mi²; 40,200 mi² at gaging station.

PERIOD OF RECORD.--Water years 1950, 1952, 1967-72, 1974-86, 1997 to current water year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1973 to September 1981.

WATER TEMPERATURE: November 1973 to September 1981.

REMARKS.--Records of daily discharge are published for gaging station near Paducah (station 03609500) 16.3 mi upstream. Flow completely regulated. Barkley-Kentucky Canal (station 03438190) diverts water from or to Lake Barkley in the Cumberland River Basin.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARDS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV 05...	1215	ENVIRONMENTAL	55000	181	7.4	14.2	4.1	11.6	112	65	18
DEC 17...	1230	ENVIRONMENTAL	30000	188	7.9	7.0	2.1	11.4	93	77	24
DEC 17...	1240	REPLICATE	--	188	7.9	7.0	1.9	11.4	--	74	23
FEB 26...	1000	ENVIRONMENTAL	91500	137	7.7	9.5	7.6	13.8	153	57	18
MAR 25...	1300	ENVIRONMENTAL	88200	153	7.9	10.9	5.7	13.4	120	63	20
APR 14...	1320	ENVIRONMENTAL	48000	148	8.4	16.3	5.2	--	--	60	19
APR 22...	1350	ENVIRONMENTAL	147000	145	7.7	16.5	12	12.5	127	62	20
MAY 06...	1250	ENVIRONMENTAL	151000	129	7.4	18.0	6.5	13.5	143	54	17
MAY 22...	1300	ENVIRONMENTAL	56900	124	7.6	24.0	4.6	10.9	129	50	15
JUN 05...	1220	ENVIRONMENTAL	53400	130	7.2	25.0	14	5.9	72	51	16
JUN 25...	1230	ENVIRONMENTAL	23700	155	8.3	29.5	2.5	9.1	119	67	20
JUN 25...	1240	REPLICATE	--	--	--	--	2.8	--	--	68	20
JUL 23...	1110	ENVIRONMENTAL	44900	142	7.5	30.0	4.5	6.4	85	55	15
AUG 13...	1100	ENVIRONMENTAL	45000	146	7.4	28.0	3.3	6.4	81	54	15

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT TOT FIELD (MG/L AS CACO3) (39086)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)
NOV 05...	4.6	8.5	1.9	60	49	8.6	11	<.10	5.7	103	.56	.45
DEC 17...	4.3	8.0	1.8	76	62	8.7	13	<.10	5.0	120	.64	.56
DEC 17...	4.3	7.9	1.7	--	--	8.5	13	<.10	4.6	115	.67	.56
FEB 26...	2.7	4.7	1.4	57	46	5.0	9.9	<.10	4.7	92	.73	.81
MAR 25...	3.0	4.7	1.3	69	56	5.6	9.6	<.10	4.0	90	.70	.60
APR 14...	3.0	4.9	1.3	59	48	6.3	9.6	<.10	1.9	89	.57	.43
APR 22...	3.0	4.1	1.3	66	54	4.8	9.0	<.10	3.6	83	.71	.56
MAY 06...	2.9	3.8	1.5	58	47	4.2	8.2	<.10	3.4	81	.56	.47
MAY 22...	2.8	4.0	1.4	53	44	4.9	8.2	<.10	2.8	71	.52	.38
JUN 05...	3.0	4.7	1.7	51	42	5.9	8.1	<.10	3.3	74	.66	.44
JUN 25...	4.0	4.9	2.1	68	55	5.6	12	<.10	3.0	90	.65	.43
JUN 25...	4.1	4.9	2.1	--	--	5.5	12	<.10	3.0	92	.59	.34
JUL 23...	4.2	7.5	1.8	48	39	10	11	<.10	2.5	90	--	--
AUG 13...	4.1	6.6	1.8	52	42	8.0	11	<.10	4.0	84	.50	--

TENNESSEE RIVER BASIN

03609750 TENNESSEE RIVER AT HIGHWAY 60, NEAR PADUCAH, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)
NOV												
05...	.19	.09	.039	.300	.066	.261	.15	.26	.056	.031	.13	.08
DEC												
17...	--	--	<.010	.405	<.020	--	.15	.24	.046	.030	.12	--
17...	--	--	<.010	.403	<.020	--	.15	.26	.045	.026	.12	--
FEB												
26...	.19	.27	<.010	.514	.029	--	.30	.22	.061	.022	.08	.04
MAR												
25...	--	--	<.010	.491	<.020	--	.11	.21	.073	.035	.09	--
APR												
14...	--	--	<.010	.310	<.020	--	.12	.26	.049	.011	.02	--
22...	.25	.09	.014	.418	.051	.404	.14	.30	.146	.011	.07	.07
MAY												
06...	--	--	.010	.331	<.020	.321	.14	.23	.038	<.010	.06	--
22...	.29	.15	.018	.178	.049	.160	.20	.34	.015	<.010	.00	.06
JUN												
05...	.36	.14	.022	.171	.125	.149	.26	.49	.087	.010	.04	.16
25...	.45	.24	.015	.145	.051	.130	.29	.50	.058	.010	.03	.07
25...	.39	.15	.015	.154	.039	.139	.19	.43	.049	<.010	.03	.05
JUL												
23...	.32	.16	<.010	<.050	.030	--	.19	.35	.040	<.010	.08	.04
AUG												
13...	.34	--	.011	.108	.056	.097	<.10	.40	.053	<.010	.04	.07

DATE	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)
NOV											
05...	1.2	.13	.042	3.7	<1.0	<1	21	<1.0	29	<1.0	1.3
DEC											
17...	--	--	.038	5.2	<1.0	<1	21	<1.0	20	<1.0	<1.0
17...	--	--	.039	5.8	<1.0	<1	20	<1.0	26	<1.0	<1.0
FEB											
26...	--	--	.026	6.0	<1.0	<1	17	<1.0	<16	<1.0	1.8
MAR											
25...	--	--	.029	3.7	<1.0	<1	18	<1.0	<16	<1.0	<1.0
APR											
14...	--	--	.005	3.6	<1.0	<1	17	<1.0	<16	<1.0	<1.0
22...	1.8	.05	.022	2.9	<1.0	<1	17	<1.0	<16	<1.0	1.4
MAY											
06...	1.4	.03	.018	3.0	<1.0	1	18	<1.0	<16	<1.0	<1.0
22...	.71	.06	.001	3.3	<1.0	<1	19	<1.0	<16	<1.0	<1.0
JUN											
05...	.66	.07	.012	5.1	<1.0	<1	19	<1.0	<16	<1.0	<1.0
25...	.58	.05	.010	4.2	<1.0	<1	21	<1.0	<16	<1.0	<1.0
25...	.62	.05	.011	3.8	<1.0	<1	21	<1.0	16	<1.0	<1.0
JUL											
23...	--	--	.026	4.5	<1.0	1	22	<1.0	<16	<1.0	<1.0
AUG											
13...	.43	.04	.014	2.8	<1.0	<1	21	<1.0	<16	<1.0	<1.0

TENNESSEE RIVER BASIN

03609750 TENNESSEE RIVER AT HIGHWAY 60, NEAR PADUCAH, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)
NOV 05...	<1.0	1.0	<3.0	<1.0	<4	<1.0	1.4	<1.0	<1	<1.0	62
DEC 17...	<1.0	<1.0	<10	<1.0	<4	4.2	1.0	<1.0	<1	<1.0	70
DEC 17...	<1.0	<1.0	<10	<1.0	<4	4.2	<1.0	<1.0	<1	<1.0	69
FEB 26...	<1.0	<1.0	17	<1.0	<4	2.7	<1.0	<1.0	<1	<1.0	50
MAR 25...	<1.0	<1.0	15	<1.0	<4	2.8	<1.0	<1.0	<1	<1.0	53
APR 14...	<1.0	<1.0	<10	<1.0	<4	<1.0	<1.0	<1.0	<1	<1.0	55
APR 22...	<1.0	<1.0	<10	<1.0	<4	<1.0	<1.0	<1.0	<1	<1.0	56
MAY 06...	<1.0	<1.0	11	<1.0	<4	<1.0	<1.0	<1.0	<1	<1.0	47
MAY 22...	<1.0	<1.0	12	<1.0	<4	<1.0	<1.0	<1.0	<1	<1.0	47
JUN 05...	<1.0	1.0	<10	<1.0	<4	2.7	<1.0	<1.0	<1	<1.0	50
JUN 25...	<1.0	<1.0	<10	<1.0	<4	<1.0	<1.0	<1.0	<1	<1.0	66
JUN 25...	<1.0	<1.0	<10	<1.0	<4	<1.0	<1.0	<1.0	<1	<1.0	66
JUL 23...	<1.0	<1.0	<10	<1.0	<4	1.4	1.1	<1.0	<1	<1.0	60
AUG 13...	<1.0	<1.0	<10	<1.0	<4	<1.0	1.0	<1.0	<1	<1.0	59
DATE	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO- CHLOR, WATER, FLTRD REC (UG/L) (49260)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)
NOV 05...	<6	1.0	<1.0	2.0	.20	<.002	<.0020	.036	<.0020	<.0020	<.0040
DEC 17...	<10	1.1	<1.0	1.9	.30	<.002	<.0020	.055	<.0020	<.0020	<.0040
DEC 17...	<10	12	<1.0	1.8	.30	<.002	<.0020	.056	<.0020	<.0020	<.0040
FEB 26...	<10	1.8	<1.0	1.8	.40	<.002	<.0020	.015	<.0020	<.0020	<.0040
MAR 25...	<10	8.9	<1.0	1.8	.60	<.002	<.0020	.016	<.0020	<.0020	<.0040
APR 14...	<10	2.1	<1.0	1.7	.80	<.002	<.0020	.023	<.0020	<.0020	<.0040
APR 22...	<10	4.8	<1.0	1.8	.60	<.002	.0171	.158	<.0020	.0165	<.0040
MAY 06...	<10	6.9	<1.0	2.0	.40	<.002	.0088	.310	<.0020	<.0020	<.0040
MAY 22...	<10	3.2	<1.0	2.3	.60	<.002	.0142	.488	<.0020	<.0020	<.0040
JUN 05...	<10	9.9	<1.0	2.1	.60	<.002	.0127	.458	<.0020	<.0020	.0070
JUN 25...	<10	6.8	<1.0	2.1	.70	.004	.0106	.381	<.0020	<.0020	E.0031
JUN 25...	<10	13	<1.0	2.1	.80	E.004	.0117	.390	<.0020	<.0020	<.0040
JUL 23...	<10	14	<1.0	2.0	.70	<.002	<.0020	.243	<.0020	<.0020	<.0040
AUG 13...	<10	6.3	<1.0	1.8	.90	<.002	<.0020	.117	<.0020	<.0020	<.0040

TENNESSEE RIVER BASIN

03609750 TENNESSEE RIVER AT HIGHWAY 60, NEAR PADUCAH, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	DEETHYL										
	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	FONOFO WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	MALA- THON, DIS- SOLVED (UG/L) (39532)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	P, P' DDE DISSOLV (UG/L) (34653)	PARA- THON, DIS- SOLVED (UG/L) (39542)
NOV											
05...	<.0040	E.0075	<.002	<.001	<.0030	<.004	<.005	<.004	.008	<.0060	<.004
DEC											
17...	<.0040	E.0168	<.002	<.001	<.0030	<.004	<.005	<.004	.011	<.0060	<.004
17...	<.0040	E.0163	<.002	<.001	<.0030	<.004	<.005	<.004	.010	<.0060	<.004
FEB											
26...	<.0040	E.0065	<.002	<.001	<.0030	<.004	<.005	<.004	.005	<.0060	<.004
MAR											
25...	<.0040	E.0070	<.002	<.001	<.0030	<.004	<.005	<.004	.005	<.0060	<.004
APR											
14...	<.0040	E.0093	<.002	<.001	<.0030	<.004	<.005	<.004	.013	<.0060	<.004
22...	<.0040	E.0073	<.002	<.001	<.0030	<.004	<.005	<.004	.033	<.0060	<.004
MAY											
06...	.0165	E.0107	<.002	<.001	<.0030	<.004	<.005	<.004	.089	<.0060	<.004
22...	.0335	E.0163	<.002	<.001	<.0030	<.004	<.005	<.004	.097	<.0060	<.004
JUN											
05...	.0275	E.0228	<.002	<.001	<.0030	<.004	<.005	<.004	.087	<.0060	<.004
25...	.0227	E.0398	<.002	<.001	<.0030	<.004	<.005	<.004	.066	<.0060	<.004
25...	.0224	E.0419	<.002	<.001	<.0030	<.004	<.005	<.004	.067	<.0060	<.004
JUL											
23...	<.0040	E.0216	<.002	<.001	<.0030	<.004	<.005	<.004	.037	<.0060	<.004
AUG											
13...	E.0089	E.0186	<.002	<.001	<.0030	<.004	<.005	<.004	.025	<.0060	<.004
DATE	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)
	NOV										
05...	<.0070	E.0053	.0112	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
DEC											
17...	<.0070	E.0057	.0172	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
17...	<.0070	E.0057	.0170	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
FEB											
26...	<.0070	<.0180	.0184	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
MAR											
25...	<.0070	<.0180	.0204	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
APR											
14...	<.0070	E.0040	.0116	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
22...	<.0070	E.0044	.0156	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
MAY											
06...	<.0070	<.0180	.0229	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
22...	<.0070	E.0073	.0154	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
JUN											
05...	<.0070	E.0104	.0247	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
25...	<.0070	E.0077	.0221	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
25...	<.0070	E.0080	.0215	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
JUL											
23...	<.0070	<.0180	<.0050	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
AUG											
13...	<.0070	<.0180	.0104	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040

TENNESSEE RIVER BASIN

03609750 TENNESSEE RIVER AT HIGHWAY 60, NEAR PADUCAH, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
	NOV 05...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020
DEC 17...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
DEC 17...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
FEB 26...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
MAR 25...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
APR 14...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
APR 22...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
MAY 06...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
MAY 22...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
JUN 05...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
JUN 25...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
JUN 25...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
JUL 23...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
AUG 13...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
DATE	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 05...	<.0040	<.0130	.0256	<.0070	<.0130	<.0010	<.0020	<.0020	7	1040	96
DEC 17...	<.0040	<.0130	.0200	<.0070	<.0130	<.0010	<.0020	<.0020	3	243	95
DEC 17...	<.0040	<.0130	.0213	<.0070	<.0130	<.0010	<.0020	<.0020	--	--	--
FEB 26...	<.0040	<.0130	.0201	<.0070	<.0130	<.0010	<.0020	<.0020	10	2470	99
MAR 25...	<.0040	<.0130	.0209	<.0070	<.0130	<.0010	<.0020	<.0020	10	2380	99
APR 14...	<.0040	<.0130	.0138	<.0070	<.0130	<.0010	<.0020	<.0020	12	1560	97
APR 22...	<.0040	<.0130	.0146	<.0070	<.0130	<.0010	<.0020	<.0020	18	7140	99
MAY 06...	<.0040	<.0130	.0332	<.0070	<.0130	<.0010	<.0020	<.0020	9	3670	98
MAY 22...	<.0040	<.0130	.0252	<.0070	<.0130	<.0010	<.0020	<.0020	12	1840	97
JUN 05...	<.0040	<.0130	.0304	<.0070	<.0130	<.0010	<.0020	<.0020	39	5620	98
JUN 25...	<.0040	<.0130	.0248	<.0070	<.0130	<.0010	<.0020	<.0020	10	640	96
JUN 25...	<.0040	<.0130	.0249	<.0070	<.0130	<.0010	<.0020	<.0020	--	--	--
JUL 23...	<.0040	<.0130	.0219	<.0070	<.0130	<.0010	<.0020	<.0020	19	2300	98
AUG 13...	<.0040	<.0130	.0208	<.0070	<.0130	<.0010	<.0020	<.0020	19	2310	95

TENNESSEE RIVER BASIN

03610200 CLARKS RIVER AT ALMO, KY

LOCATION.--Lat 36°41'30", long 88°16'25", Calloway County, Hydrologic Unit 06040006, on left bank at downstream side of bridge on State Highway 464, 0.3 mi southeast of Almo, 5.1 mi upstream from Rockhouse Creek, and at mile 53.5.

DRAINAGE AREA.--134 mi².

PERIOD OF RECORD.--October 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 413.46 ft above sea level.

REMARKS.--Estimated daily discharges: Many days between October and May and Sept. 30. Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	15	19	31	34	59	60	500	33	34	619	19
2	9.5	14	18	30	35	52	50	209	25	28	128	19
3	9.7	13	32	29	33	46	100	251	23	197	84	19
4	10	12	36	28	32	44	70	139	1570	56	67	18
5	9.3	13	31	72	32	41	48	84	7650	30	56	18
6	9.6	25	26	165	31	70	40	195	1190	28	49	17
7	9.0	26	24	240	30	80	36	2860	157	26	51	17
8	8.2	17	24	220	30	140	36	437	71	32	270	18
9	10	14	26	180	29	110	44	174	2630	24	234	18
10	11	14	59	120	31	66	37	713	555	22	60	17
11	14	14	43	81	120	49	30	249	172	27	91	17
12	9.6	12	31	71	110	43	27	113	800	23	234	17
13	13	50	28	61	86	40	27	74	2190	21	47	17
14	19	40	26	51	61	39	94	58	317	31	38	16
15	11	30	26	56	49	36	68	48	1120	216	34	17
16	11	20	26	55	240	40	600	43	166	181	31	18
17	9.7	19	24	52	400	48	320	38	82	44	29	30
18	9.3	18	23	47	300	70	100	35	60	32	28	18
19	9.3	18	22	52	220	120	80	31	464	28	26	16
20	9.7	19	23	50	180	400	60	29	145	26	25	884
21	13	22	23	44	140	140	54	41	146	24	24	819
22	12	21	30	53	120	83	52	86	121	23	24	39
23	11	20	27	110	100	61	56	44	57	22	23	26
24	16	19	90	100	78	53	51	29	45	22	22	22
25	14	18	120	62	70	48	43	30	39	23	22	20
26	24	16	44	52	100	46	37	227	35	21	22	19
27	14	16	45	48	200	40	49	230	33	25	21	19
28	13	15	39	45	100	37	800	55	30	34	20	18
29	12	17	38	43	---	34	700	39	28	39	20	18
30	12	17	39	39	---	34	3000	32	66	125	19	17
31	12	---	36	36	---	46	---	27	---	4300	19	---
TOTAL	364.9	584	1098	2323	2991	2215	6769	7120	20020	5764	2437	2247
MEAN	11.8	19.5	35.4	74.9	107	71.5	226	230	667	186	78.6	74.9
MAX	24	50	120	240	400	400	3000	2860	7650	4300	619	884
MIN	8.2	12	18	28	29	34	27	27	23	21	19	16
CFSM	.09	.15	.26	.56	.80	.53	1.68	1.71	4.98	1.39	.59	.56
IN.	.10	.16	.30	.64	.83	.61	1.88	1.98	5.56	1.60	.68	.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1998, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
MEAN	49.4	168	345	213	430	290	225	211	136	67.1	49.0	26.8				
MAX	205	684	1065	550	1693	1336	623	925	667	264	377	141				
(WY)	1986	1989	1983	1988	1989	1997	1983	1983	1998	1989	1995	1996				
MIN	2.96	19.5	24.4	27.4	65.5	61.7	21.6	12.4	3.88	4.95	2.40	2.36				
(WY)	1988	1998	1996	1987	1996	1995	1986	1988	1988	1986	1983	1983				

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1983 - 1998
ANNUAL TOTAL	76924.9	53932.9	
ANNUAL MEAN	211	148	183
HIGHEST ANNUAL MEAN			367
LOWEST ANNUAL MEAN			69.8
HIGHEST DAILY MEAN	14000	Mar 2	7650
LOWEST DAILY MEAN	8.2	Oct 8	8.2
ANNUAL SEVEN-DAY MINIMUM	9.3	Oct 2	9.3
INSTANTANEOUS PEAK FLOW			11000
INSTANTANEOUS PEAK STAGE			16.31
ANNUAL RUNOFF (CFSM)	1.57	1.10	1.37
ANNUAL RUNOFF (INCHES)	21.36	14.97	18.55
10 PERCENT EXCEEDS	300	220	326
50 PERCENT EXCEEDS	43	36	32
90 PERCENT EXCEEDS	12	15	5.3

MASSAC CREEK BASIN

03611260 MASSAC CREEK NEAR PADUCAH, KY

LOCATION.--Lat 37°02'29", long 88°42'39", McCracken County, Hydrologic Unit 05140206, on left upstream wingwall of bridge n U.S. Highway 62, 1.2 mi upstream from Middle Fork, 6.9 mi west of post office in Paducah, and at mile 8.3.

DRAINAGE AREA.--14.6 mi².

PERIOD OF RECORD.--October 1971 to current year.

REVISED RECORDS.--1983 (M), 1984 (M).

GAGE.--Water-stage recorder. Datum of gage is 345.53 ft above sea level.

REMARKS.--Estimated daily discharges: Nov. 30 to Dec. 1, Feb. 17-18, Apr. 16-21, Aug. 7-9, 11-14, Aug. 30 to Sept. 3 and Sept. 12-14. Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.62	.93	2.0	1.1	1.8	9.6	11	20	6.5	3.6	4.8	1.3
2	.63	.91	1.1	1.1	1.7	8.3	8.1	14	4.5	2.8	3.9	1.3
3	.66	.99	2.0	1.2	1.7	7.6	9.8	33	4.3	239	3.5	1.4
4	.65	.97	1.6	1.2	1.7	7.1	8.6	11	23	15	3.1	1.2
5	.77	1.0	1.1	1.2	1.7	6.8	7.9	8.7	341	5.3	2.9	1.2
6	.80	1.8	.95	14	1.7	6.7	7.7	112	18	4.4	3.4	1.1
7	.79	1.4	.94	24	1.6	7.1	7.6	99	12	4.3	210	1.1
8	.81	1.0	1.0	16	1.7	22	19	17	9.6	7.0	100	1.1
9	.82	.91	1.2	5.5	1.6	13	26	12	750	3.7	7.8	1.0
10	.86	.91	2.6	3.6	1.6	8.9	9.4	10	194	3.5	3.9	1.0
11	.76	.91	1.4	3.0	3.2	7.4	7.9	8.9	25	4.3	11	1.1
12	.68	.98	1.1	3.3	3.0	7.0	7.4	8.2	13	3.6	4.1	1.1
13	1.3	3.3	1.0	2.8	2.2	6.9	7.4	7.6	62	3.2	2.8	1.0
14	.73	2.3	1.0	2.7	1.9	6.7	35	7.1	14	5.7	2.4	.96
15	.46	1.0	.97	2.7	1.8	6.4	9.6	6.9	8.5	93	2.2	.98
16	.73	.95	.98	2.4	73	7.6	420	6.7	5.9	6.6	2.1	.98
17	.73	.90	.99	2.3	310	15	15	6.4	4.9	4.1	1.9	.91
18	.70	1.0	.96	2.2	120	36	8.0	6.4	4.3	3.5	1.8	.93
19	.68	1.0	.94	2.1	22	117	6.2	5.5	4.5	3.1	1.9	.88
20	.70	.97	.92	2.0	13	87	6.8	5.2	4.3	2.9	1.6	.89
21	.87	1.1	1.4	2.0	10	23	33	5.2	5.0	2.8	1.6	.88
22	.76	.89	1.4	2.7	9.0	14	12	5.4	4.0	2.7	1.5	.78
23	.76	.85	1.2	5.0	8.4	12	8.9	5.0	3.1	2.6	1.5	.71
24	1.1	.87	5.5	3.0	7.6	11	7.5	4.9	2.7	2.6	1.5	.71
25	1.1	.90	3.1	2.5	7.2	9.5	6.9	5.2	2.6	2.6	1.5	.71
26	1.7	.97	1.6	2.3	17	9.0	6.5	5.4	2.3	2.7	1.4	.72
27	.56	1.0	1.7	2.2	74	8.7	7.3	5.2	2.2	3.1	1.4	.74
28	.75	1.1	1.5	2.0	14	8.4	106	4.9	2.1	3.5	1.4	.77
29	.78	1.0	1.4	2.0	---	8.0	24	4.7	2.0	3.8	1.4	.79
30	.77	2.5	1.3	1.9	---	7.8	115	4.5	79	113	1.4	.80
31	.83	---	1.2	1.8	---	11	---	4.6	---	62	1.4	---
TOTAL	24.86	35.31	46.05	132.6	714.1	516.5	965.5	460.6	1614.3	620.0	391.1	29.04
MEAN	.80	1.18	1.49	4.28	25.5	16.7	32.2	14.9	53.8	20.0	12.6	.97
MAX	1.7	3.3	5.5	24	310	117	420	112	750	239	210	1.4
MIN	.46	.85	.92	1.1	1.6	6.4	6.2	4.5	2.0	2.6	1.4	.71
CFSM	.05	.08	.10	.29	1.75	1.14	2.20	1.02	3.69	1.37	.86	.07
IN.	.06	.09	.12	.34	1.82	1.32	2.46	1.17	4.11	1.58	1.00	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1998, BY WATER YEAR (WY)

	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
MEAN	3.10	15.5	28.3	21.2	37.1	32.0	31.8	17.9	9.97	8.80	3.18	4.32															
MAX	19.4	70.8	105	48.1	160	109	121	58.8	53.8	37.3	13.9	50.1															
(WY)	1986	1997	1983	1974	1989	1997	1973	1983	1998	1983	1982	1985															
MIN	.25	.37	.71	.58	4.19	8.36	2.14	1.17	.32	.37	.30	.23															
(WY)	1982	1972	1977	1977	1996	1987	1986	1992	1972	1974	1980	1976															

SUMMARY STATISTICS

FOR 1997 CALENDAR YEAR

FOR 1998 WATER YEAR

WATER YEARS 1972 - 1998

ANNUAL TOTAL	7055.71	5549.96	
ANNUAL MEAN	19.3	15.2	17.7
HIGHEST ANNUAL MEAN			37.9
LOWEST ANNUAL MEAN			6.54
HIGHEST DAILY MEAN	1310	750	1780
LOWEST DAILY MEAN	.46	.46	.09
ANNUAL SEVEN-DAY MINIMUM	.61	.68	.10
INSTANTANEOUS PEAK FLOW		2840	5990
INSTANTANEOUS PEAK STAGE		13.11	15.86
INSTANTANEOUS LOW FLOW			.06
ANNUAL RUNOFF (CFSM)	1.32	1.04	1.21
ANNUAL RUNOFF (INCHES)	17.98	14.14	16.43
10 PERCENT EXCEEDS	31	18	29
50 PERCENT EXCEEDS	2.0	2.8	2.2
90 PERCENT EXCEEDS	.68	.87	.42

BAYOU CREEK BASIN

03611800 BAYOU CREEK NEAR HEATH, KY

LOCATION.--Lat 37°05'58", long 88°49'27", McCracken County, Hydrologic Unit 05140206, on left downstream wingwall of bridge on Dyke Road, 1.0 mi southwest of Paducah Gaseous Diffusion Plant, 2.0 mi northwest of Heath, 3.0 mi upstream from Brushy Creek, and at mile 7.3.

DRAINAGE AREA.--6.55 mi².

PERIOD OF RECORD.--October 1990 to November 1991, June 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 366.06 ft above sea level (levels by U.S. Department of Energy).

REMARKS.--Estimated daily discharges: oct. 2-17, 18, Nov. 3-5, 30, Dec. 1-5, 14-18 and April 4-7. Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	.38	.42	.08	.43	1.9	1.8	5.6	.17	1.4	.95	.28
2	.15	.34	.38	.08	.38	1.3	.94	4.6	.17	.54	.43	.19
3	.14	.28	.64	.08	.40	.88	1.8	15	.16	122	.54	.18
4	.14	.26	.58	.08	.42	.66	1.6	2.5	.37	5.6	.31	.16
5	.15	.30	.52	3.2	.49	.54	1.2	1.4	27	1.5	.27	.14
6	.16	.71	.49	4.1	.49	.58	1.0	99	.54	.76	.33	.13
7	.18	.54	.49	14	.46	.57	.96	48	.20	.49	183	.13
8	.20	.44	.52	13	.43	3.7	.92	3.8	.17	.43	35	.14
9	.20	.40	.69	2.3	.40	2.4	.86	1.8	375	.43	5.6	.13
10	.22	.41	2.0	1.1	.41	1.0	.68	1.2	20	.43	1.5	.14
11	.16	.40	.41	.78	1.6	.65	.58	.65	3.7	.52	17	.16
12	.18	.45	.25	.63	1.5	.52	.55	.48	1.7	.37	5.6	.15
13	.45	.85	.21	.53	.79	.48	1.1	.36	9.1	.37	1.2	.17
14	.18	1.1	.21	.45	.53	.42	4.1	.29	2.3	.44	.62	.18
15	.13	.44	.23	1.1	.44	.40	1.5	.25	1.3	.43	.41	.18
16	.13	.38	.24	1.0	21	1.1	61	.27	.64	.38	.35	.16
17	.14	.38	.25	.69	141	10	3.8	.28	.48	.36	.35	.13
18	.20	.40	.26	.62	53	47	1.6	.33	.38	.39	.35	.10
19	.15	.39	.28	.52	5.4	91	1.0	.36	.63	.39	.32	.12
20	.14	.40	.27	.33	3.0	38	.69	.44	.58	.41	.29	.12
21	.24	.44	.41	.27	1.8	5.7	4.3	.38	1.5	.42	.27	.13
22	.13	.48	.56	.67	1.4	2.1	1.6	.32	.54	.41	.21	.15
23	.14	.49	.40	2.2	1.1	1.3	.87	.25	.37	.47	.27	.16
24	.25	.39	3.3	1.1	.79	.71	.55	.21	.36	.54	.26	.16
25	.20	.37	.81	.76	.66	.78	.70	.27	.32	.62	.25	.17
26	.71	.40	.16	.60	9.8	.94	.40	.29	.31	.74	.25	.12
27	.35	.42	.15	.50	37	.91	1.0	.26	.31	.73	.30	.12
28	.26	.40	.11	.44	3.3	.84	39	.23	.29	.75	.31	.12
29	.25	.40	.11	.44	---	.70	52	.20	.30	.90	.30	.11
30	.23	.46	.12	.39	---	.69	63	.18	50	78	.31	.13
31	.31	---	.10	.38	---	1.3	---	.16	---	14	.35	---
TOTAL	6.63	13.50	15.57	52.42	288.42	219.07	251.10	189.36	498.89	235.22	257.50	4.46
MEAN	.21	.45	.50	1.69	10.3	7.07	8.37	6.11	16.6	7.59	8.31	.15
MAX	.71	1.1	3.3	14	141	91	63	99	375	122	183	.28
MIN	.13	.26	.10	.08	.38	.40	.40	.16	.16	.36	.21	.10
CFSM	.03	.07	.08	.26	1.57	1.08	1.28	.93	2.54	1.16	1.27	.02
IN.	.04	.08	.09	.30	1.64	1.24	1.43	1.08	2.83	1.34	1.46	.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1998, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	.95	5.86	10.8	7.79	10.9	12.2	8.41	9.77	5.35	2.50	2.16	.66
MAX	3.04	22.8	37.2	13.6	15.6	34.9	16.6	16.5	16.6	7.59	8.31	2.11
(WY)	1997	1997	1991	1994	1991	1997	1994	1995	1998	1998	1998	1993
MIN	.21	.45	.50	1.69	.60	3.26	4.90	.56	.17	.089	.12	.15
(WY)	1998	1998	1998	1998	1996	1995	1991	1994	1994	1993	1993	1998

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1991 - 1998
ANNUAL TOTAL	2453.05	2032.14	
ANNUAL MEAN	6.72	5.57	6.56
HIGHEST ANNUAL MEAN			10.0
LOWEST ANNUAL MEAN			3.85
HIGHEST DAILY MEAN	710	375	710
LOWEST DAILY MEAN	.10	.08	.05
ANNUAL SEVEN-DAY MINIMUM	.14	.09	.06
INSTANTANEOUS PEAK FLOW		1640	1870
INSTANTANEOUS PEAK STAGE		9.03	9.90
ANNUAL RUNOFF (CFSM)	1.03	.85	1.00
ANNUAL RUNOFF (INCHES)	13.93	11.54	13.61
10 PERCENT EXCEEDS	5.4	4.4	5.4
50 PERCENT EXCEEDS	.55	.44	.45
90 PERCENT EXCEEDS	.16	.15	.13

BAYOU CREEK BASIN

03611850 BAYOU CREEK NEAR GRAHAMVILLE, KY

LOCATION.--Lat 37°08'41", long 88°49'38", McCracken County, Hydrologic Unit 05140206, near right bank on downstream side of bridge on State Highway 358, 750 ft downstream of Brushy Creek, 1.4 mi north of Paducah Gaseous Diffusion Plant, 3.6 mi northwest of Grahamville, and at mile 4.1.

DRAINAGE AREA.--14.9 mi².

PERIOD OF RECORD.--October 1990 to November 1991, June 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 330 ft above sea level (from topographic map).

REMARKS.--Estimated daily discharges: Oct. 1-3, 24-29 and Sept. 20-23. Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	9.5	16	4.8	5.2	12	11	21	5.8	8.6	12	9.6
2	3.0	8.0	15	4.3	5.5	11	9.8	21	5.7	7.6	12	9.2
3	2.6	6.6	18	4.1	5.1	9.8	15	49	7.3	181	11	9.3
4	2.4	6.4	15	4.0	4.0	9.4	12	13	11	23	10	8.9
5	2.5	7.9	14	21	4.6	9.1	11	11	94	12	10	8.8
6	2.5	14	12	22	6.0	9.4	10	156	8.2	11	11	8.7
7	2.7	11	11	48	6.1	8.7	9.8	133	6.8	10	272	8.9
8	3.0	11	12	41	6.4	14	9.6	19	6.6	10	84	8.8
9	3.7	11	12	12	6.3	12	9.2	12	502	11	19	8.7
10	3.3	11	19	8.7	6.6	9.3	7.1	9.7	48	12	13	8.7
11	3.1	13	11	7.8	11	7.5	7.0	8.8	18	13	23	8.5
12	3.6	14	9.4	7.7	9.7	7.0	6.9	9.1	12	10	16	8.4
13	8.4	20	7.4	8.6	7.9	6.9	9.7	7.9	19	22	10	8.1
14	6.8	16	7.0	8.3	7.6	6.6	20	7.9	11	16	9.2	7.9
15	4.9	13	6.9	9.2	6.9	6.6	9.9	7.8	8.2	22	9.5	7.7
16	5.0	14	6.5	7.9	93	8.8	152	6.8	6.8	12	9.4	7.3
17	5.2	14	6.2	7.0	297	26	18	6.5	6.6	10	9.6	6.5
18	6.1	13	6.3	7.0	138	114	10	6.2	6.4	11	9.7	6.0
19	6.0	12	6.1	7.1	20	169	9.1	6.0	8.6	10	9.5	6.1
20	6.5	12	5.4	6.8	13	139	8.1	5.9	7.5	9.6	9.2	6.0
21	12	12	6.5	6.3	12	30	19	8.4	10	9.2	8.9	6.4
22	7.2	12	7.1	7.1	12	19	12	8.4	8.9	9.1	8.5	7.0
23	6.3	12	5.9	9.4	12	16	10	7.6	8.6	9.1	8.2	7.4
24	6.0	13	21	6.6	11	14	9.5	7.8	8.1	9.8	7.9	7.3
25	6.5	12	7.7	5.6	11	12	9.3	8.8	8.5	11	7.7	6.4
26	13	12	5.0	5.4	26	11	9.2	8.1	8.9	12	7.8	5.9
27	7.8	13	5.0	4.9	106	10	11	7.1	8.0	9.9	8.6	5.7
28	7.2	13	4.8	4.6	16	9.7	100	6.5	8.0	9.1	9.1	6.0
29	6.8	13	4.8	4.3	---	10	140	6.2	9.4	9.9	9.1	6.9
30	6.6	15	4.8	4.9	---	9.6	179	6.1	95	69	9.1	6.0
31	8.3	---	4.6	5.2	---	12	---	5.9	---	27	9.5	---
TOTAL	172.6	364.4	293.4	311.6	865.9	749.4	854.2	598.5	972.9	606.9	663.5	227.1
MEAN	5.57	12.1	9.46	10.1	30.9	24.2	28.5	19.3	32.4	19.6	21.4	7.57
MAX	13	20	21	48	297	169	179	156	502	181	272	9.6
MIN	2.4	6.4	4.6	4.0	4.0	6.6	6.9	5.9	5.7	7.6	7.7	5.7
CFSM	.37	.82	.64	.67	2.08	1.62	1.91	1.30	2.18	1.31	1.44	.51
IN.	.43	.91	.73	.78	2.16	1.87	2.13	1.49	2.43	1.52	1.66	.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1998, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1991	1992	1993	1994	1995	1996	1997	1998
MEAN	9.23	20.2	28.0	25.4	29.5	33.4	27.8	27.0	19.6	12.0	10.7	7.75				
MAX	20.0	56.7	60.7	39.2	37.9	77.5	41.0	38.4	32.4	24.3	21.4	12.6				
(WY)	1997	1997	1991	1994	1997	1997	1994	1996	1998	1996	1998	1993				
MIN	5.57	5.76	6.66	10.1	6.13	15.0	17.3	9.30	7.56	6.37	6.51	5.11				
(WY)	1998	1991	1996	1998	1996	1995	1991	1994	1991	1994	1993	1997				

SUMMARY STATISTICS

FOR 1997 CALENDAR YEAR

FOR 1998 WATER YEAR

WATER YEARS 1991 - 1998

ANNUAL TOTAL	8352.3	6680.4		
ANNUAL MEAN	22.9	18.3		21.1
HIGHEST ANNUAL MEAN				30.9
LOWEST ANNUAL MEAN				16.4
HIGHEST DAILY MEAN	923	Mar 1	502	Jun 9
LOWEST DAILY MEAN	2.4	Oct 4	2.4	Oct 4
ANNUAL SEVEN-DAY MINIMUM	2.7	Oct 2	2.7	Oct 2
INSTANTANEOUS PEAK FLOW			1550	Jun 9
INSTANTANEOUS PEAK STAGE			11.88	Jun 9
ANNUAL RUNOFF (CFSM)	1.54		1.23	
ANNUAL RUNOFF (INCHES)	20.85		16.68	
10 PERCENT EXCEEDS	30		21	26
50 PERCENT EXCEEDS	11		9.1	8.5
90 PERCENT EXCEEDS	5.1		5.5	5.0

BAYOU CREEK BASIN

03611900 LITTLE BAYOU CREEK NEAR GRAHAMVILLE, KY

LOCATION.--Lat 37°08'22", long 88°47'26", McCracken County, Hydrologic Unit 05140206, on left bank on reservation of Tennessee Valley Authority Shawnee Steam Plant, 30 ft upstream of bridge on unnamed county road, 1.1 mi southwest of Shawnee Steam Plant, 2.2 mi upstream from Bayou Creek, and 2.3 mi north of Grahamville.

DRAINAGE AREA.--5.78 mi².

PERIOD OF RECORD.--October 1990 to November 1991, June 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 324.80 ft above sea level (levels by U.S. Department of Energy).

REMARKS.--Estimated daily discharges: Oct. 3-11, Nov. 1-5, 16-19, 24-30, Dec. 1, 3-4 and Aug. 24 to Sept. 23. Records fair except for periods of estimated record, which are poor. Some regulation from Paducah Gaseous Diffusion Plant, 0.4 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.0	5.0	.42	.69	2.7	2.2	9.8	1.1	1.3	1.4	1.0
2	1.0	.98	1.5	.40	.74	1.8	1.5	5.7	1.1	.90	1.4	.90
3	.96	.94	2.6	.40	.70	1.5	2.8	22	1.1	36	1.3	.82
4	.90	.90	2.1	.40	.78	1.3	2.2	4.8	2.9	8.1	1.4	.76
5	.86	1.2	1.8	6.1	1.0	1.2	1.6	2.4	27	2.0	1.3	.74
6	.88	3.6	1.8	4.0	.85	1.1	1.4	53	1.3	1.3	1.6	.72
7	.90	3.0	1.7	11	.85	1.1	1.4	49	.78	1.1	130	.70
8	1.0	1.9	1.6	8.9	.76	2.9	1.4	7.1	.72	1.1	67	.74
9	1.1	1.9	2.7	1.8	.75	2.1	1.5	2.8	259	1.1	9.4	.72
10	1.0	2.0	4.9	.95	.72	1.5	1.4	2.0	19	1.7	3.4	.76
11	.94	2.2	.75	.83	2.1	1.2	1.4	1.5	4.3	2.0	3.2	.78
12	1.6	4.4	.51	.76	1.4	1.2	1.2	1.3	2.1	1.4	3.8	.76
13	4.2	10	.50	.75	.90	1.2	1.6	1.2	4.7	1.2	3.0	.80
14	2.0	5.2	.55	.74	.86	1.2	7.1	1.0	2.6	4.2	2.4	.82
15	.86	1.9	.57	1.1	.78	1.1	2.0	1.0	1.8	4.3	1.3	.82
16	.82	2.1	.56	.92	20	2.1	59	.97	1.2	2.1	1.3	.78
17	.91	2.3	.57	.82	76	6.9	8.6	.93	1.1	1.6	1.6	.72
18	.86	2.2	.59	.76	50	33	3.0	.94	1.1	1.5	1.3	.64
19	.88	2.2	.65	.79	8.7	44	2.0	.93	2.5	1.6	1.3	.66
20	.85	2.2	.76	.76	3.9	54	1.4	.90	1.6	1.6	1.3	.72
21	1.5	2.1	1.3	.70	2.1	11	4.6	.99	2.7	1.6	1.3	.78
22	1.0	2.5	1.5	.97	1.6	4.8	3.4	1.6	1.7	1.6	1.3	.80
23	.92	2.4	.91	1.7	1.4	2.7	4.4	1.0	1.5	1.6	1.3	.80
24	1.4	2.3	7.5	.81	1.2	1.9	3.6	1.0	1.4	1.7	1.2	.81
25	1.1	2.2	.92	.79	1.2	1.6	3.1	1.3	1.3	1.7	1.1	.78
26	5.3	2.2	.55	.72	5.8	1.5	2.4	1.1	1.5	2.1	1.0	.85
27	1.0	2.3	.49	.72	42	1.5	1.5	1.2	1.2	1.7	1.1	.83
28	.88	2.4	.46	.70	5.6	1.6	29	1.0	1.1	1.6	1.1	.82
29	.82	2.7	.42	.71	---	1.6	54	1.0	1.1	1.9	1.1	.80
30	.76	3.0	.44	.75	---	1.6	71	1.4	22	4.0	1.1	.89
31	.77	---	.45	.70	---	2.5	---	1.1	---	3.0	1.2	---
TOTAL	39.57	76.22	46.65	51.87	233.38	195.4	281.7	181.96	372.50	98.60	251.5	23.52
MEAN	1.28	2.54	1.50	1.67	8.34	6.30	9.39	5.87	12.4	3.18	8.11	.78
MAX	5.3	10	7.5	11	76	54	71	53	259	36	130	1.0
MIN	.76	.90	.42	.40	.69	1.1	1.2	.90	.72	.90	1.0	.64
CFSM	.22	.44	.26	.29	1.44	1.09	1.62	1.02	2.15	.55	1.40	.14
IN.	.25	.49	.30	.33	1.50	1.26	1.81	1.17	2.40	.63	1.62	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1998, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	2.14	6.28	10.4	8.90	10.0	12.0	9.61	8.94	4.65	2.52	2.36	1.56
MAX	4.25	18.3	33.5	17.9	17.0	32.5	19.2	13.5	12.4	7.87	8.11	2.98
(WY)	1997	1997	1991	1991	1991	1997	1994	1997	1998	1996	1998	1993
MIN	1.28	1.33	1.26	1.67	1.02	3.79	5.62	1.48	1.04	.82	.72	.78
(WY)	1998	1992	1996	1998	1996	1995	1991	1994	1994	1991	1996	1998

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1991 - 1998
ANNUAL TOTAL	2745.49	1852.87	
ANNUAL MEAN	7.52	5.08	6.71
HIGHEST ANNUAL MEAN			10.1
LOWEST ANNUAL MEAN			4.35
HIGHEST DAILY MEAN	506	259	506
LOWEST DAILY MEAN	.42	.40	.02
ANNUAL SEVEN-DAY MINIMUM	.53	.42	.42
INSTANTANEOUS PEAK FLOW		868	1300
INSTANTANEOUS PEAK STAGE		9.20	11.26
ANNUAL RUNOFF (CFSM)	1.30	.88	1.16
ANNUAL RUNOFF (INCHES)	17.67	11.93	15.78
10 PERCENT EXCEEDS	9.1	5.7	8.9
50 PERCENT EXCEEDS	1.6	1.3	1.2
90 PERCENT EXCEEDS	.75	.74	.70

OHIO RIVER MAIN STEM

03612500 OHIO RIVER AT LOCK AND DAM 53, NEAR GRAND CHAIN, IL

(National stream-quality accounting network station)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°12'11", long 89°02'30", Pulaski County, Hydrologic Unit 05140206, at auxiliary gaging station, 0.5 mi upstream from Gar Creek, 3.0 mi southwest of Grand Chain, 18.1 mi downstream from gaging station at Metropolis, and at mile 962.2.

DRAINAGE AREA.--203,100 mi², approximately.

PERIOD OF RECORD.--Water years 1955 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1954 to September 1970, January 1973 to September 1990.

WATER TEMPERATURES: October 1954 to September 1970, January 1973 to September 1990.

REMARKS.--Records of daily discharge are published for station at Metropolis, IL, (station 03611500). Flow regulated by many days dams and reservoirs.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 693 microsiemens, Nov. 25, 1968; minimum daily, 170 microsiemens, Feb. 9, 1957, Jan. 21, 1973.

WATER TEMPERATURES: Maximum daily, 31.0°C, July 15, 1964, July 17-21, 25, 1977; minimum daily, 0.0°C, on several days during most winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED SATUR-ATION (PER-CENT) (00301)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV											
06...	1140	ENVIRONMENTAL	--	284	7.6	13.9	5.2	10.2	98	98	27
DEC											
18...	1230	ENVIRONMENTAL	157000	310	8.1	6.5	10	11.7	94	120	34
JAN											
20...	1310	ENVIRONMENTAL	582000	262	7.6	6.5	62	11.7	94	110	32
FEB											
25...	1400	ENVIRONMENTAL	551000	244	7.5	8.5	27	12.2	124	100	29
25...	1410	REPLICATE	--	--	--	--	28	--	--	100	29
MAR											
26...	1140	ENVIRONMENTAL	579000	269	--	9.9	41	11.2	98	110	32
APR											
10...	1310	ENVIRONMENTAL	308000	304	7.7	14.1	26	9.7	94	130	35
23...	1350	ENVIRONMENTAL	734000	256	7.7	15.0	110	8.2	81	110	33
MAY											
07...	1300	ENVIRONMENTAL	822000	235	7.6	17.0	35	9.6	100	100	30
21...	1340	ENVIRONMENTAL	339000	281	7.6	23.0	27	8.6	100	110	32
22...	1350	REPLICATE	--	--	--	--	21	--	--	120	33
JUN											
04...	1340	ENVIRONMENTAL	366000	307	7.5	25.0	17	7.3	89	130	36
24...	1220	ENVIRONMENTAL	562000	303	7.4	25.0	62	5.9	71	120	34
JUL											
22...	1300	ENVIRONMENTAL	260000	296	7.7	29.0	17	6.4	83	120	33
AUG											
12...	1230	ENVIRONMENTAL	185000	250	7.7	28.0	24	6.4	81	100	29
26...	1150	ENVIRONMENTAL	125000	258	7.8	29.5	11	7.5	98	110	30

OHIO RIVER MAIN STEM

03612500 OHIO RIVER AT LOCK AND DAM 53, NEAR GRAND CHAIN, IL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, DIS- TOTAL (MG/L AS N) (00600)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)
NOV												
06...	7.6	14	2.3	86	71	13	26	.11	4.5	156	.74	.63
DEC												
18...	9.0	17	2.7	90	74	21	56	.11	4.4	216	1.4	1.3
JAN												
20...	7.2	10	2.6	81	66	14	36	.16	5.3	178	2.0	1.6
FEB												
25...	6.8	9.1	1.8	80	66	11	34	<.10	5.5	158	1.5	1.3
25...	6.8	9.2	1.8	--	--	12	35	<.10	5.4	140	1.5	1.3
MAR												
26...	8.1	9.0	2.0	90	74	12	38	.11	4.8	167	1.9	1.5
APR												
10...	9.3	9.2	2.1	103	84	13	38	.11	4.5	186	2.1	2.0
23...	7.2	7.1	2.3	95	78	9.7	30	.13	4.6	149	2.1	1.4
MAY												
07...	7.1	6.8	2.4	92	75	8.2	30	.12	5.0	154	1.4	1.2
21...	8.1	7.2	2.2	104	85	9.3	31	.12	4.7	159	1.7	1.4
22...	8.2	7.1	2.1	--	--	9.2	31	.11	4.7	157	1.8	1.4
JUN												
04...	9.7	8.5	2.5	109	90	11	34	.14	5.2	178	2.2	2.0
24...	9.3	9.0	3.8	97	79	11	37	.15	5.7	180	2.9	2.4
JUL												
22...	9.1	7.9	2.9	102	84	11	30	.15	5.1	171	1.7	1.5
AUG												
12...	7.2	7.6	2.7	96	78	10	24	.14	4.3	146	1.3	.89
26...	7.3	7.9	2.7	99	81	10	21	.14	3.7	148	.98	.81
DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)
NOV												
06...	.13	.03	.041	.446	.159	.405	.19	.29	.073	.036	.13	.20
DEC												
18...	--	--	.013	1.04	<.020	1.03	.24	.38	.079	.041	.12	--
JAN												
20...	--	--	.018	1.40	<.020	1.38	.19	.62	.252	.028	.11	--
FEB												
25...	.36	.16	<.010	1.09	.026	--	.18	.39	.141	.028	.09	.03
25...	.34	.15	<.010	1.11	.032	--	.19	.38	.139	.024	.09	.04
MAR												
26...	.57	.21	<.010	1.29	.020	--	.23	.59	.197	.045	.12	.03
APR												
10...	.36	.20	.019	1.73	.043	1.71	.24	.40	.128	.046	.12	.06
23...	--	--	.024	1.20	<.020	1.18	.22	.94	.446	.042	.15	--
MAY												
07...	--	--	.014	.946	<.020	.932	.21	.47	.151	.023	.10	--
21...	.47	.18	.023	1.20	.047	1.18	.23	.51	.120	.015	.08	.06
22...	.51	.17	.023	1.21	.039	1.18	.20	.55	.125	.020	.09	.05
JUN												
04...	.39	.20	.043	1.74	.026	1.70	.23	.42	.105	<.010	.74	.03
24...	--	--	.013	2.16	<.020	2.14	.29	.77	.249	.053	.19	--
JUL												
22...	.41	.19	.016	1.27	.020	1.25	.22	.44	.126	.024	.17	.03
AUG												
12...	.54	.10	.025	.753	.039	.728	.14	.58	.155	.040	.15	.05
26...	.38	.21	.015	.564	.033	.549	.24	.41	.078	.039	.12	.04

OHIO RIVER MAIN STEM

03612500 OHIO RIVER AT LOCK AND DAM 53, NEAR GRAND CHAIN, IL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)
NOV											
06...	1.8	.13	.041	3.2	<1.0	<1	25	<1.0	50	<1.0	1.5
DEC											
18...	4.6	.04	.038	3.2	<1.0	<1	34	<1.0	42	<1.0	<1.0
JAN											
20...	6.1	.06	.036	5.9	<1.0	<1	31	<1.0	28	<1.0	2.1
FEB											
25...	--	--	.029	6.0	<1.0	<1	26	<1.0	20	<1.0	2.1
25...	--	--	.029	5.8	<1.0	<1	26	<1.0	22	<1.0	1.9
MAR											
26...	--	--	.038	5.8	<1.0	<1	28	<1.0	24	<1.0	1.1
APR											
10...	7.6	.06	.040	5.8	<1.0	<1	31	<1.0	26	<1.0	<1.0
23...	5.2	.08	.049	6.8	<1.0	<1	28	<1.0	28	<1.0	1.9
MAY											
07...	4.1	.05	.032	6.5	<1.0	1	28	<1.0	24	<1.0	1.2
21...	5.2	.08	.025	6.9	<1.0	<1	32	<1.0	27	<1.0	1.1
22...	5.2	.08	.028	6.9	<1.0	<1	32	<1.0	27	<1.0	1.0
JUN											
04...	7.5	.14	.242	5.2	<1.0	<1	34	<1.0	32	<1.0	1.7
24...	9.5	.04	.063	8.6	<1.0	<1	34	<1.0	35	<1.0	1.0
JUL											
22...	5.5	.05	.054	7.1	<1.0	1	36	<1.0	38	<1.0	<1.0
AUG											
12...	3.2	.08	.050	6.3	<1.0	<1	30	<1.0	34	<1.0	1.0
26...	2.4	.05	.038	6.0	<1.0	1	30	<1.0	42	<1.0	<1.0
DATE	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)
NOV											
06...	<1.0	1.0	<3.0	<1.0	<4	<1.0	2.4	<1.0	<1	<1.0	122
DEC											
18...	<1.0	1.5	10	<1.0	5	3.9	2.6	1.6	<1	<1.0	165
JAN											
20...	<1.0	1.7	12	<1.0	<4	1.5	1.4	1.9	<1	<1.0	139
FEB											
25...	<1.0	1.1	<10	<1.0	<4	1.7	<1.0	1.2	<1	<1.0	126
25...	<1.0	1.1	<10	<1.0	<4	1.8	1.0	1.2	<1	<1.0	128
MAR											
26...	<1.0	1.2	12	<1.0	6	<1.0	1.2	1.2	<1	<1.0	135
APR											
10...	<1.0	1.3	<10	<1.0	<4	1.3	1.5	1.0	<1	<1.0	146
23...	<1.0	1.5	<10	<1.0	<4	<1.0	1.2	1.2	<1	<1.0	131
MAY											
07...	<1.0	1.4	<10	<1.0	<4	<1.0	<1.0	1.1	<1	<1.0	126
21...	<1.0	1.4	<10	<1.0	<4	1.0	1.3	1.1	<1	<1.0	124
22...	<1.0	1.3	<10	<1.0	<4	<1.0	1.3	1.1	<1	<1.0	127
JUN											
04...	<1.0	1.6	<10	<1.0	<4	<1.0	1.5	1.3	<1	<1.0	142
24...	<1.0	1.9	<10	<1.0	<4	<1.0	1.6	1.3	<1	<1.0	150
JUL											
22...	<1.0	1.5	<10	<1.0	<4	<1.0	1.9	1.2	<1	<1.0	133
AUG											
12...	<1.0	1.5	<10	<1.0	<4	<1.0	1.7	1.2	<1	<1.0	106
26...	<1.0	1.5	<10	<1.0	<4	<1.0	2.2	1.2	<1	<1.0	114

OHIO RIVER MAIN STEM

03612500 OHIO RIVER AT LOCK AND DAM 53, NEAR GRAND CHAIN, IL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO- CHLOR, WATER, FLTRD REC (UG/L) (49260)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)
NOV											
06...	<6	2.7	<1.0	2.2	.20	<.002	.0053	.116	<.0020	<.0020	<.0040
DEC											
18...	<10	4.4	<1.0	2.6	.50	<.002	.0060	.088	<.0020	<.0020	E.0037
JAN											
20...	<10	1.8	<1.0	3.2	1.9	<.002	.0088	.099	<.0020	<.0020	<.0040
FEB											
25...	<10	1.6	<1.0	2.2	.90	<.002	<.0020	.041	<.0020	<.0020	<.0040
25...	<10	6.6	<1.0	2.3	.90	<.002	<.0020	.045	<.0020	<.0020	<.0040
MAR											
26...	<10	1.6	<1.0	2.9	1.7	<.002	<.0020	.061	<.0020	<.0020	<.0040
APR											
10...	<10	<1.0	<1.0	2.7	.30	.005	.0065	.100	<.0020	<.0020	E.0037
23...	<10	<1.0	<1.0	3.4	2.3	.008	.0677	.648	<.0020	<.0020	.0046
MAY											
07...	<10	3.0	<1.0	3.2	1.2	.014	.177	1.42	<.0020	<.0020	<.0040
21...	<10	3.0	<1.0	3.7	1.2	<.010	.142	1.29	<.0020	<.0020	<.0040
22...	<10	6.1	<1.0	3.3	1.2	.010	.160	1.48	<.0020	<.0020	<.0040
JUN											
04...	<10	6.9	<1.0	2.5	.70	.113	.766	4.18	<.0020	<.0020	E.0250
24...	<10	2.3	<1.0	3.4	2.7	.079	.325	4.26	<.0020	<.0020	--
JUL											
22...	<10	2.6	<1.0	3.2	2.4	.012	.0470	.747	<.0020	<.0020	<.0040
AUG											
12...	<10	1.7	<1.0	2.9	1.7	.007	.0168	.318	<.0020	<.0020	<.0040
26...	<10	2.8	<1.0	2.9	.90	.007	.0110	.282	<.0020	<.0020	<.0040

DATE	DEETHYL										
	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	MALA- THON, DIS- SOLVED (UG/L) (39532)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	P, P' DDE DISSOLV (UG/L) (34653)	PARA- THON, DIS- SOLVED (UG/L) (39542)
NOV											
06...	.0155	E.0078	<.002	<.001	<.0030	<.004	<.005	<.004	.027	<.0060	<.004
DEC											
18...	.0184	E.0240	.004	<.001	<.0030	<.004	<.005	<.004	.031	E.0023	<.004
JAN											
20...	.0288	E.0355	<.002	<.001	<.0030	<.004	<.005	<.004	.056	<.0060	<.004
FEB											
25...	.0107	E.0179	<.002	<.001	<.0030	<.004	<.005	<.004	.023	<.0060	<.004
25...	.0113	E.0168	<.002	<.001	<.0030	<.004	<.005	<.004	.025	<.0060	<.004
MAR											
26...	.0175	E.0210	<.002	<.001	<.0030	<.004	<.005	<.004	.056	<.0060	<.004
APR											
10...	.0266	E.0275	<.002	<.001	<.0030	<.004	<.005	<.004	.055	<.0060	<.004
23...	.113	E.0222	.009	<.001	<.0030	<.004	<.005	.018	.227	<.0060	<.004
MAY											
07...	.166	E.0445	.007	<.001	<.0030	<.004	<.005	.021	.434	<.0060	<.004
21...	.197	E.0483	<.002	<.001	<.0030	<.004	<.005	.019	.464	<.0060	<.004
22...	.258	E.0616	<.002	<.001	<.0030	<.004	<.005	.022	.564	<.0060	<.004
JUN											
04...	.713	E.149	.004	<.001	<.0030	<.004	<.005	.039	1.62	<.0060	<.004
24...	.712	E.362	.008	<.001	<.0030	<.004	<.005	.050	2.14	<.0060	<.004
JUL											
22...	.162	E.154	<.002	<.001	<.0030	<.004	<.005	.015	.382	<.0060	<.004
AUG											
12...	.0638	E.0714	<.002	<.001	<.0030	<.004	<.005	<.004	.162	<.0060	<.004
26...	.0557	E.0532	<.002	<.001	<.0030	<.004	<.005	<.004	.122	<.0060	<.004

OHIO RIVER MAIN STEM

03612500 OHIO RIVER AT LOCK AND DAM 53, NEAR GRAND CHAIN, IL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	PROP- CHLOR, WATER, DISS, REC	PRO- METON, WATER, DISS, REC	SI- MAZINE, WATER, DISS, REC	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC	CAR- BARYL WATER FLTRD 0.7 U GF, REC	CARBO- FURAN WATER FLTRD 0.7 U GF, REC	DCPA WATER FLTRD 0.7 U GF, REC	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC	DISUL- FOTON WATER FLTRD 0.7 U GF, REC	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC
	(UG/L) (04024)	(UG/L) (04037)	(UG/L) (04035)	(UG/L) (82673)	(UG/L) (82680)	(UG/L) (82674)	(UG/L) (82682)	(UG/L) (82660)	(UG/L) (82677)	(UG/L) (82663)	(UG/L) (82683)
NOV											
06...	<.0070	E.0095	.0156	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
DEC											
18...	<.0070	E.0088	.0197	<.0020	E.0043	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
JAN											
20...	<.0070	<.0180	.0216	<.0020	E.0036	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
FEB											
25...	<.0070	<.0180	.0116	<.0020	E.0037	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
25...	<.0070	<.0180	.0128	<.0020	E.0039	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
MAR											
26...	<.0070	<.0180	.0175	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
APR											
10...	<.0070	<.0180	.0198	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
23...	<.0070	E.0078	.159	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
MAY											
07...	<.0070	E.0130	.268	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
21...	<.0070	E.0124	.174	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
22...	<.0070	E.0120	.215	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
JUN											
04...	<.0070	E.0167	.304	<.0020	<.0030	E.0140	<.0020	<.0030	<.0170	<.0040	<.0040
24...	<.0070	.0180	.264	<.0020	<.0030	E.0446	<.0020	<.0030	<.0170	<.0040	.0148
JUL											
22...	<.0070	.0210	.0584	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
AUG											
12...	<.0070	E.0150	.0320	<.0020	<.0030	<.0030	E.0032	<.0030	<.0170	<.0040	<.0040
26...	<.0070	E.0160	.0254	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
DATE	ETHO- PROP WATER FLTRD 0.7 U GF, REC	EPTC WATER FLTRD 0.7 U GF, REC	LIN- URON WATER FLTRD 0.7 U GF, REC	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC	METHYL PARA- THION WAT FLT 0.7 U GF, REC	MOL- INATE WATER FLTRD 0.7 U GF, REC	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC	FEB- ULATE WATER FILTRD 0.7 U GF, REC	PER- METHRIN CIS WAT FLT 0.7 U GF, REC	PHORATE WATER FLTRD 0.7 U GF, REC	PRON- AMIDE WATER FLTRD 0.7 U GF, REC
	(UG/L) (82672)	(UG/L) (82668)	(UG/L) (82666)	(UG/L) (82686)	(UG/L) (82667)	(UG/L) (82671)	(UG/L) (82684)	(UG/L) (82669)	(UG/L) (82687)	(UG/L) (82664)	(UG/L) (82676)
NOV											
06...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
DEC											
18...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
JAN											
20...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
FEB											
25...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
25...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
MAR											
26...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
APR											
10...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
23...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
MAY											
07...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
21...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
22...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
JUN											
04...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
24...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
JUL											
22...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
AUG											
12...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
26...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030

OHIO RIVER MAIN STEM

03612500 OHIO RIVER AT LOCK AND DAM 53, NEAR GRAND CHAIN, IL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV											
06...	<.0040	<.0130	.0140	<.0070	<.0130	<.0010	<.0020	<.0020	20	--	93
DEC											
18...	<.0040	<.0130	<.0140	<.0070	<.0130	<.0010	<.0020	<.0020	22	9330	96
JAN											
20...	<.0040	<.0130	.0192	<.0070	<.0130	<.0010	<.0020	<.0020	172	270000	93
FEB											
25...	<.0040	<.0130	E.0087	<.0070	<.0130	<.0010	<.0020	<.0020	85	126000	86
25...	<.0040	<.0130	E.0099	<.0070	<.0130	<.0010	<.0020	<.0020	--	--	--
MAR											
26...	<.0040	<.0130	.0141	<.0070	<.0130	<.0010	<.0020	<.0020	125	195000	94
APR											
10...	<.0040	<.0130	E.0090	<.0070	<.0130	<.0010	<.0020	<.0020	73	60700	98
23...	<.0040	<.0130	E.0091	<.0070	<.0130	<.0010	<.0020	<.0020	210	416000	96
MAY											
07...	<.0040	<.0130	.0196	<.0070	<.0130	<.0010	<.0020	<.0020	79	175000	93
21...	<.0040	<.0130	.0145	<.0070	<.0130	<.0010	<.0020	<.0020	80	73200	98
22...	<.0040	<.0130	.0128	<.0070	<.0130	<.0010	<.0020	<.0020	--	--	--
JUN											
04...	<.0040	<.0130	.0120	<.0070	<.0130	<.0010	<.0020	<.0020	52	51400	99
24...	<.0040	<.0130	.0137	<.0070	<.0130	<.0010	.0057	<.0020	190	288000	97
JUL											
22...	<.0040	<.0130	.0132	<.0070	<.0130	<.0010	<.0020	<.0020	95	66700	98
AUG											
12...	<.0040	<.0130	.0103	<.0070	<.0130	<.0010	<.0020	<.0020	59	29500	99
26...	<.0040	<.0130	.0161	<.0070	<.0130	<.0010	<.0020	<.0020	38	12800	96

BAYOU DE CHIEN BASIN

07024000 BAYOU DE CHIEN NEAR CLINTON, KY

LOCATION.--Lat 36°37'43", long 88°57'50", Hickman County, Hydrologic Unit 08010201, on right bank at downstream side of bridge on U.S. Highway 51, 1.1 mi upstream from Cane Creek, 3.2 mi southeast of Clinton, and at mile 15.1.

DRAINAGE AREA.--68.7 mi².

PERIOD OF RECORD.--October 1939 to September 1950 (monthly discharge only for some periods, published in WSP 1311), October 1950 to September 1978, September 1984 to current year. Published as "Bayou du Chien near Clinton," October 1954 to September 1968.

REVISED RECORDS.--WSP 1311: 1940 (M), 1942-44 (M). WSP 1711: Drainage area. WDR-KY-89: 1985-89 (m).

GAGE.--Water-Stage recorder. Datum of gage is 307.71 ft above sea level. Prior to Aug. 2, 1951, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Aug. 8-9. Records fair except for period of estimated record, which is poor. Minimum flow affected by backwater from the Mississippi River.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	28	32	30	33	64	65	150	29	37	117	24
2	23	27	28	30	34	55	31	75	25	31	52	26
3	23	27	34	30	34	52	49	135	25	30	43	25
4	23	27	35	30	34	50	37	55	761	30	40	25
5	22	27	31	311	36	51	32	45	2450	30	36	25
6	22	67	29	159	35	114	30	267	2950	28	40	23
7	22	47	28	356	32	63	32	1060	336	28	75	23
8	22	32	29	391	33	197	30	603	86	30	e140	23
9	23	31	31	103	34	103	29	108	1210	28	e100	21
10	32	30	38	52	36	58	27	69	883	28	47	21
11	66	29	32	46	144	52	25	54	133	32	102	22
12	24	29	30	44	72	48	24	46	612	29	42	22
13	25	138	28	40	41	49	25	41	374	197	38	21
14	29	131	29	39	38	46	260	41	187	176	34	21
15	24	42	28	40	36	45	32	38	535	201	32	19
16	23	35	28	39	580	50	539	38	87	535	31	19
17	23	31	28	38	1100	55	292	36	54	75	29	20
18	23	31	27	37	1190	89	73	35	44	43	27	19
19	22	30	28	42	196	146	57	35	43	35	27	20
20	22	29	28	38	114	529	49	35	45	32	27	21
21	23	29	30	38	84	126	49	40	96	30	26	21
22	23	29	35	50	76	60	45	158	51	28	26	21
23	23	28	30	64	77	51	41	49	38	28	26	20
24	25	27	92	43	63	41	39	33	34	36	26	20
25	26	27	49	39	60	37	37	32	32	32	25	20
26	37	28	37	38	118	33	35	167	31	118	29	20
27	28	28	42	37	445	31	109	82	28	351	30	21
28	26	28	35	36	100	30	763	41	27	259	24	21
29	27	28	34	36	---	30	166	35	26	244	25	21
30	26	32	33	34	---	31	645	35	152	769	25	21
31	26	---	32	33	---	55	---	33	---	913	25	---
TOTAL	806	1152	1050	2343	4875	2441	3667	3671	11384	4463	1366	646
MEAN	26.0	38.4	33.9	75.6	174	78.7	122	118	379	144	44.1	21.5
MAX	66	138	92	391	1190	529	763	1060	2950	913	140	26
MIN	22	27	27	30	32	30	24	32	25	28	24	19
CFSM	.38	.56	.49	1.10	2.53	1.15	1.78	1.72	5.52	2.10	.64	.31
IN.	.44	.62	.57	1.27	2.64	1.32	1.99	1.99	6.16	2.42	.74	.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1998, BY WATER YEAR (WY)

MEAN	32.5	82.3	129	153	186	214	138	101	76.6	59.8	40.9	34.7
MAX	165	520	557	586	672	1138	335	470	419	397	206	269
(WY)	1985	1958	1991	1950	1989	1975	1970	1978	1976	1976	1977	1977
MIN	7.27	9.41	12.1	12.7	16.3	14.2	18.6	12.1	11.7	10.7	9.43	8.74
(WY)	1944	1944	1944	1944	1941	1941	1986	1969	1952	1943	1953	1941

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1940 - 1998
ANNUAL TOTAL	45369	37864	
ANNUAL MEAN	124	104	
HIGHEST ANNUAL MEAN			104
LOWEST ANNUAL MEAN			268
HIGHEST DAILY MEAN			18.7
LOWEST DAILY MEAN			18.7
HIGHEST DAILY MEAN	4370	2950	7150
LOWEST DAILY MEAN	17	19	4.0
ANNUAL SEVEN-DAY MINIMUM	18	20	4.7
INSTANTANEOUS PEAK FLOW		3970	9460
INSTANTANEOUS PEAK STAGE		16.03	16.48
ANNUAL RUNOFF (CFSM)	1.81	1.51	1.51
ANNUAL RUNOFF (INCHES)	24.57	20.50	20.50
10 PERCENT EXCEEDS	297	180	192
50 PERCENT EXCEEDS	38	35	24
90 PERCENT EXCEEDS	23	23	11

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the U.S. Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. At a few of these stations crest stages are determined from continuous water-stage recorder graphs. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1998

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (ft ³ /s)
BIG SANDY RIVER BASIN							
03208000	Levisa Fork below Fishtrap Dam, near Millard, Ky.	Lat 37°25'33", long 82°24'45", Pike County, Hydrologic Unit 05070202, on right bank, 0.4 mi downstream from Fishtrap Dam, 1.1 mi upstream from Lower Pompey Branch, 1.9 mi northeast of Millard, 2.4 mi upstream from Russell Fork, and at mile 129.6.	392	1939-92†, 1993-98	04-17-98	85.93	9,970
03209300	Russell Fork at Elkhorn City, Ky.	Lat 37°18'14", long 82°20'35", Pike County, Hydrologic Unit 05070202, on left bank 10 ft downstream from steel highway bridge on abandoned section of State Highway 80, at Elkhorn City, 0.9 mi upstream from Elkhorn Creek, and at mile 13.2.	554	1957-60, 1961-92†, 1993-98	04-17-98	16.55	22,300

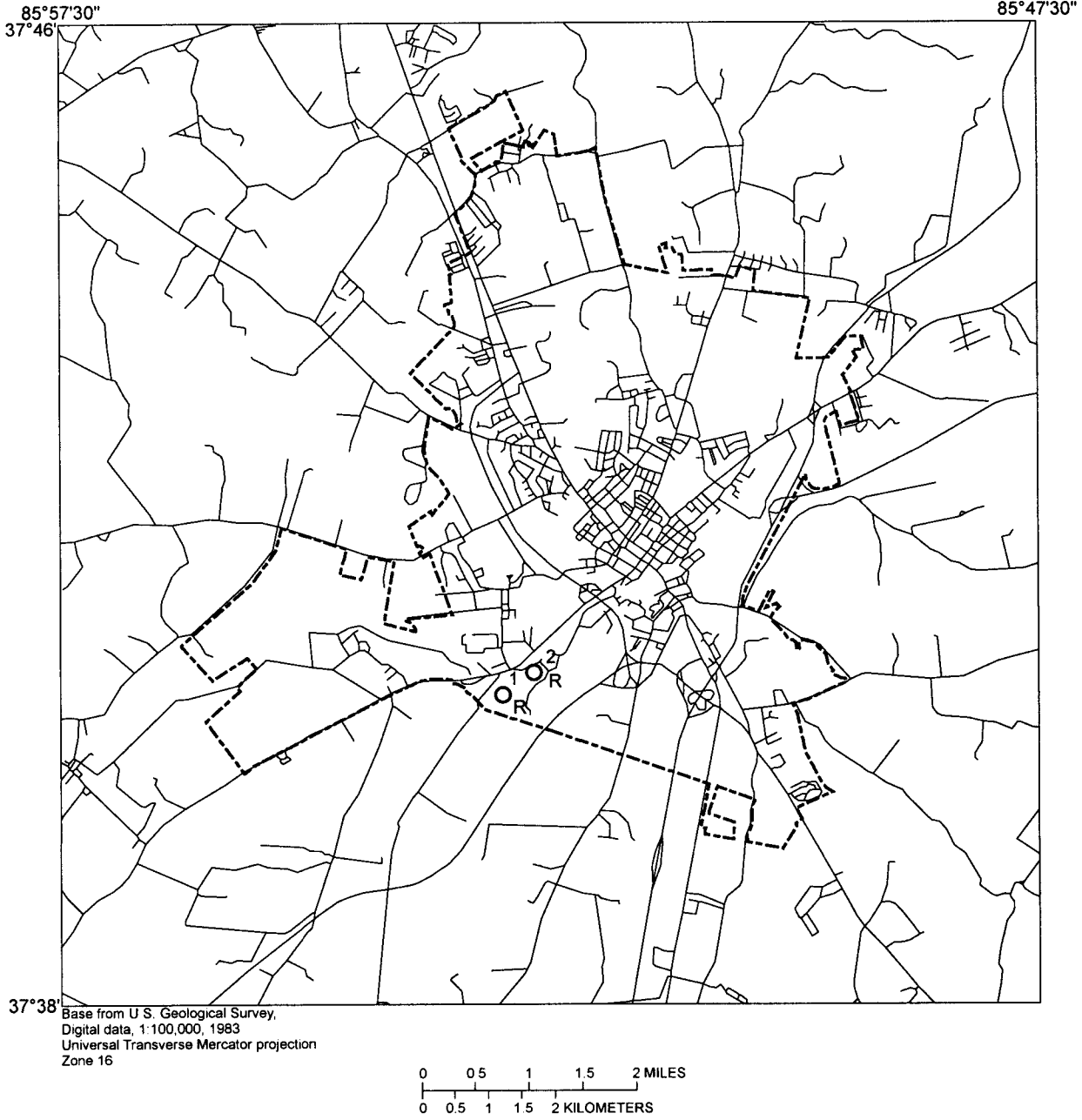
See footnote at end of table.

Annual maximum discharge at crest-stage partial-record stations during water year 1998--Continued

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (ft ³ /s)
BIG SANDY RIVER BASIN--Continued							
03211500	Johns Creek near Van Lear, Ky.	Lat 37°44'37", long 82°43'27", Floyd County, Hydrologic Unit 05070203, on right bank 100 ft upstream from Long Branch, 0.3 mi upstream from Daniels Creek, 0.7 mi downstream from Dewey Dam, 2.5 mi southeast of Van Lear, and at mile 4.7.	206	1940-92†, 1993-98	04-23-98	13.06	2,590
LITTLE SANDY RIVER BASIN							
03216350	Little Sandy River below Grayson Dam, near Leon, Ky.	Lat 38°15'14", long 82°59'28", Carter County, Hydrologic Unit 05090104, on right bank 0.3 mi downstream from Grayson Dam (new channel), 0.3 mi upstream from Big Sinking Creek, 2.4 mi southwest of Leon, and at mile 50.3.	196	1967-92†, 1993-98	02-14-98	98.84	2,790
CUMBERLAND RIVER BASIN							
03400500	Poor Fork at Cumberland, Ky.	Lat 36° 58'26", long 82 59'38", Harlan County, Hydrologic Unit 05130101, at left upstream side of New York Avenue bridge at Cumberland, 250 ft upstream from Cloverlick Creek, 0.6 mi downstream from Looney Creek, and at river mile 718.8.	82.3	1941-92†, 1993-98	04-17-98	10.25	5,150
03404820	Laurel River at Municipal Dam, near Corbin, Ky.	Lat 36°58' 13", long 84 07' 11", Laurel County, Hydrologic Unit 05130101, on left bank adjacent to State Highway 709, 200 ft upstream from Corbin Municipal Dam, 0.1 mi upstream from Lynn Camp Creek, 2.0 mi northwest of Corbin, and at mile 21.4.	140	1974-92†, 1993-98	04-17-98	24.45	6,830

† Operated as a continuous-record gaging station.

WATER RESOURCES DATA - KENTUCKY, 1998

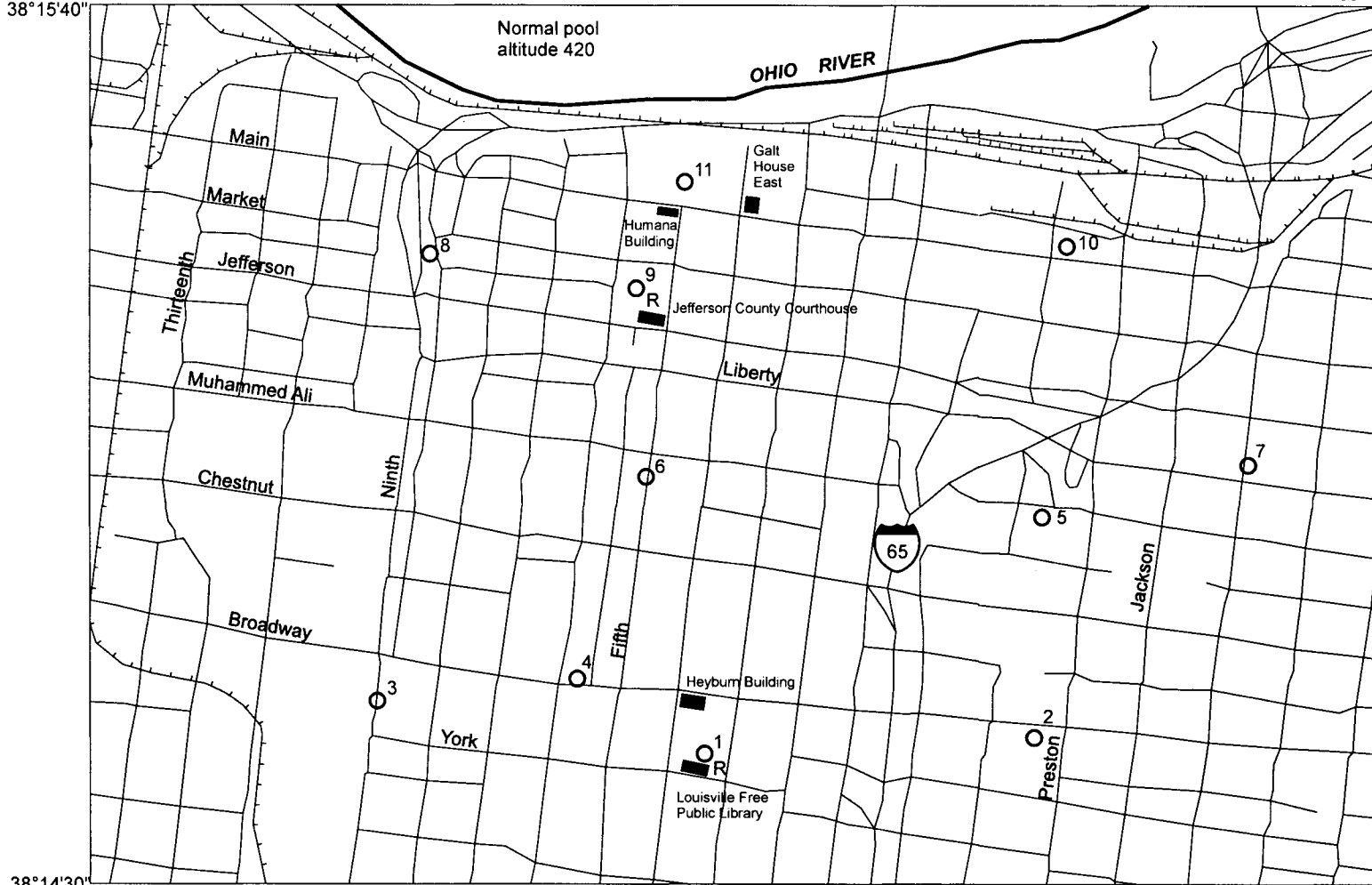


EXPLANATION

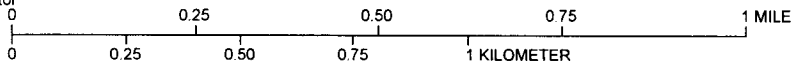
- Elizabethtown corporation boundary
- _R¹ Observation well equipped with water-level recorder with identifier

Figure 6. Location of observation wells in Elizabethtown, Kentucky.

85°46'30" 38°15'40" 85°44'20"



Base from U.S. Geological Survey, Digital data, 1:100,000, 1983 Universal Transverse Mercator projection, Zone 16



EXPLANATION

- ¹ Observation well with identifier
- _R Observation well equipped with water-level recorder

Figure 7. Location of observation wells in downtown Louisville, Kentucky.