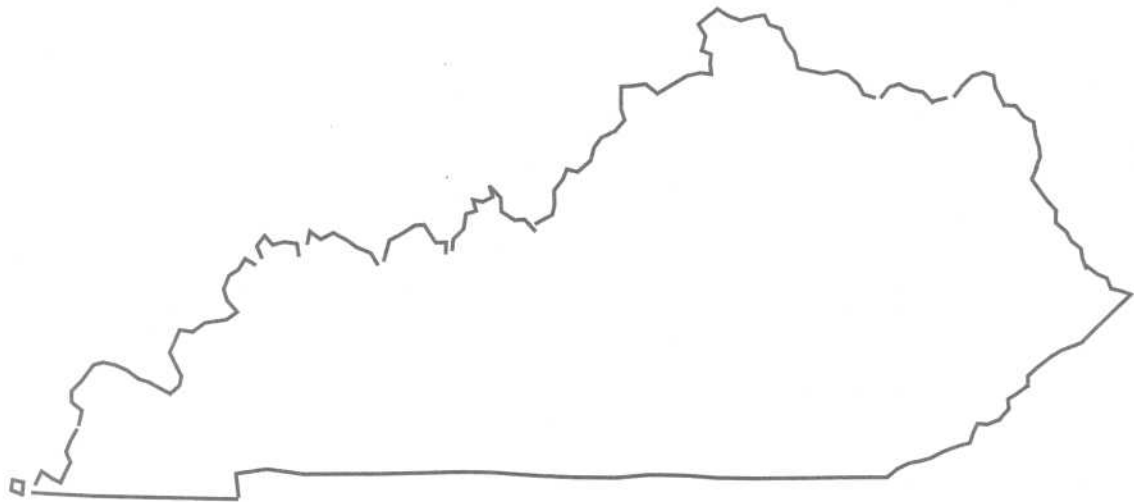




Water Resources Data Kentucky Water Year 1995



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT KY-95-1
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GREEN RIVER BASIN

03313700 WEST FORK DRAKES CREEK NEAR FRANKLIN, KY

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

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

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

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

REMARKS.--Estimated daily discharges: Feb. 10-12, Aug. 28 to Sept. 15 and Sept. 19-30. Records good except for discharge below 5.0 ft³/s and periods of estimated record, which are poor. Subsequent to Apr. 24, 1976, records of daily discharge less than about 300 ft³/s does not include approximately 3 ft³/s which is diverted by city of Franklin for municipal supply. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	24	159	55	158	94	61	86	76	143	13	11
2	23	23	120	52	155	85	61	184	124	71	16	10
3	22	23	97	48	144	79	56	139	116	51	19	9.4
4	18	22	175	44	132	76	54	108	84	42	14	9.0
5	19	23	398	41	116	89	48	95	69	49	20	8.4
6	19	27	274	343	102	157	49	82	62	47	26	8.8
7	19	33	204	855	97	634	49	70	59	40	43	9.0
8	16	32	161	383	94	2600	48	64	54	34	47	8.8
9	26	33	137	274	85	1160	47	772	50	32	33	8.6
10	36	32	519	209	80	761	44	685	44	42	85	8.4
11	31	31	774	189	76	503	43	310	45	31	57	8.2
12	25	29	399	230	72	387	55	204	53	27	44	7.8
13	74	26	287	205	70	312	66	153	50	26	38	7.0
14	98	24	216	603	71	253	57	525	41	24	36	6.8
15	76	23	173	998	1110	214	50	556	37	25	35	6.6
16	56	23	143	1020	1110	189	46	347	34	25	35	9.5
17	43	23	166	594	805	165	46	349	32	24	30	12
18	40	24	165	398	513	146	45	1420	29	22	27	9.8
19	36	23	143	461	382	130	45	2220	30	20	25	9.0
20	33	22	126	480	307	127	73	956	91	19	24	8.6
21	29	22	113	363	253	123	534	541	69	19	26	7.6
22	27	19	104	299	203	110	282	369	50	20	21	6.4
23	25	18	96	247	178	104	184	272	42	25	15	6.0
24	29	18	90	206	154	91	162	214	43	26	14	5.8
25	33	18	82	174	132	87	124	171	42	27	13	5.6
26	29	19	75	154	122	82	100	154	37	27	12	6.6
27	26	56	75	141	112	77	85	129	33	34	12	7.0
28	23	1440	68	199	106	73	76	117	30	28	12	6.4
29	23	418	63	239	---	71	68	105	28	17	13	6.2
30	24	249	59	191	---	65	68	85	129	14	12	6.0
31	24	---	56	169	---	63	---	76	---	14	11	---
TOTAL	1027	2797	5717	9864	6939	9107	2726	11558	1683	1045	828	240.3
MEAN	33.1	93.2	184	318	248	294	90.9	373	56.1	33.7	26.7	8.01
MAX	98	1440	774	1020	1110	2600	534	2220	129	143	85	12
MIN	16	18	56	41	70	63	43	64	28	14	11	5.6
CFSM	.30	.85	1.68	2.89	2.25	2.67	.83	3.39	.51	.31	.24	.07
IN.	.35	.95	1.93	3.34	2.35	3.08	.92	3.91	.57	.35	.28	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1995, BY WATER YEAR (WY)

MEAN	44.2	132	309	301	377	380	254	215	145	64.1	33.3	61.7
MAX	219	474	971	867	1356	1412	568	982	637	251	142	677
(WY)	1976	1980	1979	1974	1989	1975	1979	1983	1974	1989	1971	1979
MIN	1.87	14.5	11.8	10.4	138	118	38.3	22.8	18.7	5.47	2.80	2.28
(WY)	1988	1988	1981	1981	1980	1981	1986	1988	1985	1985	1986	1986

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1968 - 1995	
ANNUAL TOTAL	92753.6		53531.3			
ANNUAL MEAN	254		147		192	
HIGHEST ANNUAL MEAN					351	
LOWEST ANNUAL MEAN					87.8	
HIGHEST DAILY MEAN	3060	Mar 9	2600	Mar 8	12800	Mar 12 1975
LOWEST DAILY MEAN	8.6	Sep 22	5.6	Sep 25	.00	Sep 19 1985
ANNUAL SEVEN-DAY MINIMUM	11	Sep 16	6.2	Sep 23	.00	Aug 13 1988
INSTANTANEOUS PEAK FLOW			3660	Mar 8	27300	Mar 12 1975
INSTANTANEOUS PEAK STAGE			9.94	Mar 8	23.20	Mar 12 1975
ANNUAL RUNOFF (CFSM)	2.31		1.33		1.75	
ANNUAL RUNOFF (INCHES)	31.37		18.10		23.76	
10 PERCENT EXCEEDS	686		365		432	
50 PERCENT EXCEEDS	101		56		69	
90 PERCENT EXCEEDS	22		13		8.6	

GREEN RIVER BASIN

03316500 GREEN RIVER AT PARADISE, KY

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

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

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

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

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Green River Lake beginning February 1969, Nolin River Lake beginning March 1963, and Barren River Lake beginning March 1964. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1510	4620	9550	2230	8900	11700	2760	7340	20200	5860	1310	479
2	1500	4530	7610	2090	9440	9570	2520	11300	19800	5120	1210	463
3	1570	4460	6390	2070	9340	7630	2290	12200	20900	4420	1130	428
4	1610	4440	5820	3160	8970	6110	2270	11300	21200	3930	1100	393
5	1620	4450	6600	5210	8330	5340	2120	9690	19400	3780	1270	377
6	1540	4590	8130	6350	7820	6010	2000	8710	18400	3710	1510	340
7	1450	4630	9060	13300	7350	8450	1880	7830	18300	3820	1570	325
8	1410	4600	8450	18600	6970	17500	1790	7030	18600	3830	1740	340
9	1570	4780	7980	19000	6590	28700	1770	7480	19500	3500	1830	367
10	1530	5210	10500	15100	6330	33200	1800	16900	19100	3510	4020	353
11	1490	5300	18000	13300	6110	34600	1750	24100	18500	3660	5610	336
12	1470	5250	20200	13700	5650	32700	1970	24200	18500	3330	5590	279
13	1580	5210	18700	13800	4810	26300	2240	19000	18300	2860	4560	277
14	1740	5180	15700	14000	4040	20600	2400	20500	17700	2340	3310	290
15	1940	5160	13900	17400	10100	17100	2400	27200	16000	1840	2500	367
16	2360	5170	12300	21300	27100	15600	2280	30500	13700	1580	2100	658
17	2910	5130	11100	22000	34700	14000	2110	32400	11400	1450	1790	1050
18	3150	5230	10200	20100	36400	12500	2080	35400	9990	1390	1490	1330
19	3710	5100	9880	17300	34600	11100	2620	40800	9230	1370	1260	1300
20	4130	4490	9440	16700	29600	9880	3870	43700	8990	1330	1150	1250
21	4490	4070	8290	15300	24800	9000	8300	46100	8700	1280	1030	1190
22	4950	3930	6890	14100	20900	8010	14700	47600	8010	1200	961	1220
23	5170	3850	5710	13400	18700	6770	18000	47600	7630	1170	885	1160
24	5090	3660	5070	11500	17400	5480	15900	46000	7590	1190	792	1100
25	5000	3370	4570	9560	15900	4580	14200	43400	7150	1310	758	1060
26	4870	3180	4160	8360	15200	3980	13600	38900	6940	1340	687	1050
27	4820	3180	3890	7580	14700	3610	11400	34000	6550	1340	667	1010
28	4810	5040	3630	7650	13800	3430	9370	29900	6400	1500	619	1050
29	4680	7950	3180	8460	---	3420	8040	26900	6290	1470	545	1130
30	4590	10900	2640	8750	---	3280	7200	24600	6100	1360	503	1200
31	4560	---	2320	8890	---	3040	---	22000	---	1360	471	---
TOTAL	92820	146660	269860	370260	414550	383190	165630	804580	409070	77150	53968	22172
MEAN	2994	4889	8705	11940	14810	12360	5521	25950	13640	2489	1741	739
MAX	5170	10900	20200	22000	36400	34600	18000	47600	21200	5860	5610	1330
MIN	1410	3180	2320	2070	4040	3040	1750	7030	6100	1170	471	277

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1995, BY WATER YEAR (WY)

	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
MEAN	5237	8293	14490	17210	16800	17270	14330	10790	7035	3910	2960	4195														
MAX	16950	19310	42250	36020	26410	35150	34210	25950	20190	8811	8743	22540														
(WY)	1980	1980	1979	1974	1994	1975	1979	1995	1981	1973	1971	1979														
MIN	2463	4030	2103	954	6083	6150	4441	2492	2024	1702	623	739														
(WY)	1981	1972	1981	1981	1977	1981	1978	1976	1972	1993	1993	1995														

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1970 - 1995	
ANNUAL TOTAL	3891898		3209910			
ANNUAL MEAN	10660		8794		10260	
HIGHEST ANNUAL MEAN					18460	
LOWEST ANNUAL MEAN					6044	
HIGHEST DAILY MEAN	45900	Mar 14	47600	May 22	74300	Dec 13 1978
LOWEST DAILY MEAN	953	Sep 16	277	Sep 13	277	Sep 13 1995
ANNUAL SEVEN-DAY MINIMUM	1050	Sep 13	320	Sep 8	320	Sep 8 1995
INSTANTANEOUS PEAK FLOW			48800	May 23	107000	Mar 5 1962
INSTANTANEOUS PEAK STAGE			30.15	May 24	40.46	Mar 5 1962
INSTANTANEOUS LOW FLOW					250	Oct 23 1940
10 PERCENT EXCEEDS	30300		20500		24000	
50 PERCENT EXCEEDS	5330		5170		6110	
90 PERCENT EXCEEDS	1530		1140		1430	

GREEN RIVER BASIN

0320000 GREEN RIVER AT LOCK 2, AT CALHOUN, KY

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

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

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

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

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

REMARKS.--Estimated daily discharges: Dec. 3-4, Feb. 9, 10, 13 and May 2. Records good except for periods of estimated record, and discharge below 1000 ft³/s, which are fair. Flow regulated by Green River Lake beginning February 1969, Nolin Lake beginning March 1963, Barren River Lake beginning March 1964, and Rough River Lake, October 1959. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1680	5650	12300	2350	11000	14800	3210	9030	27700	7820	1430	607
2	1680	5710	9600	2260	11400	12200	2930	14400	26000	6980	1310	614
3	1710	5640	7850	2160	11100	9940	2690	15600	25200	6110	1200	587
4	1730	5600	6970	3130	10600	8020	2460	14700	22500	5460	1170	561
5	1760	5680	7720	5750	9800	6910	2430	12400	19900	5320	1370	539
6	1720	5730	10000	7260	9220	7460	2250	10800	17800	5140	1710	511
7	1630	5800	11300	14300	8540	10800	2170	9600	17500	5260	1860	482
8	1570	5810	10800	20000	8000	18900	2110	8570	18000	5310	2060	468
9	1620	5970	10300	21400	7780	30400	2080	8400	20300	4910	2130	471
10	1610	6390	13200	18200	7350	36100	2140	17500	19900	4940	4850	473
11	1610	6620	19900	16900	6980	38100	2140	24700	18700	4950	7010	477
12	1570	6640	23200	16400	6510	38500	2250	26700	18600	4280	7160	470
13	1700	6610	22600	16700	5580	35700	2510	23300	18200	3520	5810	440
14	1920	6530	19400	16700	4680	29700	2870	28900	17800	2780	4220	434
15	2220	6410	17000	19100	12300	23400	2950	33100	16700	2170	3230	513
16	2790	6380	15700	22900	30800	18300	2770	35700	15100	1810	2750	810
17	3570	6430	14500	23900	39100	16300	2580	38500	13800	1590	2300	1290
18	3810	6570	13400	22900	41400	14800	2550	41100	12800	1470	1930	1630
19	4680	6530	13100	20700	41500	13200	2990	44000	11800	1490	1620	1600
20	5350	5920	12100	19500	39300	11700	4520	48000	11400	1440	1460	1360
21	5890	5210	10100	18500	35200	10700	9750	50800	11200	1370	1320	1250
22	6470	4900	8760	17300	31100	9670	16600	52200	10500	1330	1210	1220
23	6730	4860	7410	16300	27800	8160	20600	52800	9960	1270	1070	1230
24	6590	4690	6580	14500	23100	6600	20100	53000	9970	1280	980	1180
25	6330	4220	5940	11800	19900	5480	17400	52400	9630	1390	918	1140
26	6070	3830	5410	10000	18300	4740	16400	50500	9600	1450	839	1120
27	6010	3840	5010	9070	17700	4220	14300	47500	8790	1480	805	1110
28	6030	5900	4650	9280	16800	3990	11700	43700	8560	1690	767	1140
29	5890	9530	3870	10500	---	4040	9840	39200	8380	1650	706	1290
30	5750	12900	3030	10900	---	3840	8640	35400	8100	1510	644	1380
31	5720	---	2640	11100	---	3500	---	31300	---	1520	636	---
TOTAL	113410	182500	334340	431760	512840	460170	197930	973800	464390	98690	66475	26397
MEAN	3658	6083	10790	13930	18320	14840	6598	31410	15480	3184	2144	880
MAX	6730	12900	23200	23900	41500	38500	20600	53000	27700	7820	7160	1630
MIN	1570	3830	2640	2160	4680	3500	2080	8400	8100	1270	636	434

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)
	5546	10620	17460	19620	23240	19550	15820	13680	8119	4620	2984	4554			
	19100	22770	46530	41100	52100	40370	42430	50460	23850	12260	8763	27360			
	1980	1980	1979	1974	1989	1989	1979	1983	1981	1989	1971	1979			
	2138	4874	2496	1223	7116	7479	2260	1706	541	1386	550	879			
	1988	1972	1981	1981	1977	1981	1986	1988	1988	1988	1991	1987			

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1970 - 1995	
ANNUAL TOTAL	4768531		3862702			
ANNUAL MEAN	13060		10580		12090	
HIGHEST ANNUAL MEAN					22070	
LOWEST ANNUAL MEAN					7249	
HIGHEST DAILY MEAN	45100	Mar 15	53000	May 24	79300	Feb 21 1989
LOWEST DAILY MEAN	920	Sep 16	434	Sep 14	291	Jul 9 1988
ANNUAL SEVEN-DAY MINIMUM	1020	Sep 13	462	Sep 8	329	Jul 4 1988
INSTANTANEOUS PEAK FLOW			53400	May 23	208000	Jan 27 1937
INSTANTANEOUS PEAK STAGE			29.66	May 25	42.40	Jan 30 1937
INSTANTANEOUS LOW FLOW					280	Oct 5 1930
10 PERCENT EXCEEDS	38300		24900		31000	
50 PERCENT EXCEEDS	6580		6530		7370	
90 PERCENT EXCEEDS	1660		1260		1470	

GREEN RIVER BASIN
03320500 POND RIVER NEAR APEX, KY

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

DRAINAGE AREA.--194 mi².

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

REVISED RECORDS.--WSP 1083: 1942-46. WSP 1555: 1945-46(P), drainage area.

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

REMARKS.--Estimated daily discharges: Oct. 1-6, Oct. 14 to Nov. 19, Nov. 30 to Dec. 12, Dec. 20-23, Jan. 14-20, Feb. 9-13, 19-24, May 21-26 and Sept. 3-16. Records poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	2.1	340	29	103	72	45	396	154	17	7.0	1.2
2	1.3	2.0	240	29	91	62	45	1440	324	15	7.5	1.0
3	1.2	2.2	180	28	82	55	51	1140	563	12	6.9	.70
4	1.2	2.8	140	27	75	52	52	842	302	11	6.6	.50
5	1.1	4.0	90	24	66	82	47	443	159	11	11	.40
6	1.1	8.0	70	296	56	367	43	252	106	11	26	.30
7	1.6	7.0	80	1380	51	812	35	169	229	11	34	.20
8	1.6	6.0	70	1070	47	1960	30	127	284	11	28	.10
9	3.8	9.0	120	728	44	1680	29	180	259	11	38	.00
10	3.5	18	300	420	43	1310	28	213	190	10	65	.00
11	3.4	17	900	260	42	823	27	135	122	9.1	94	.00
12	3.4	16	1700	204	40	521	34	101	168	8.6	93	.00
13	4.7	15	1620	172	38	335	44	89	167	8.6	60	.40
14	5.2	16	1080	400	37	227	46	116	111	8.2	35	.00
15	4.8	18	620	900	2480	174	41	306	80	7.5	23	.00
16	4.2	22	375	800	4940	140	36	287	58	7.1	24	3.5
17	3.8	22	329	400	3870	115	33	702	43	7.0	22	7.5
18	6.0	20	323	250	2370	96	31	3040	33	6.6	12	7.6
19	5.6	20	212	450	1600	85	30	5310	27	5.9	9.0	7.1
20	5.2	22	130	1200	900	79	99	3450	26	5.7	8.1	5.8
21	4.6	23	92	1050	580	82	696	1600	36	4.9	6.9	4.5
22	4.0	23	76	691	360	86	679	640	39	4.4	6.4	3.3
23	3.6	23	66	399	240	83	383	420	29	5.0	5.5	2.3
24	3.4	23	59	240	180	76	391	300	46	6.9	4.3	1.7
25	3.2	24	51	164	143	66	339	240	35	9.7	3.6	1.4
26	3.0	24	46	123	112	59	234	180	37	22	3.0	1.3
27	2.8	84	41	103	97	56	168	149	29	23	3.0	1.3
28	2.6	1330	38	109	83	56	127	136	24	13	2.5	1.2
29	2.4	870	35	158	---	53	101	918	20	8.3	1.7	1.0
30	2.3	480	31	162	---	50	85	650	19	7.7	1.8	.86
31	2.2	---	30	124	---	47	---	289	---	7.0	1.6	---
TOTAL	98.1	3153.1	9484	12390	18770	9761	4029	24260	3719	306.2	650.4	55.16
MEAN	3.16	105	306	400	670	315	134	783	124	9.88	21.0	1.84
MAX	6.0	1330	1700	1380	4940	1960	696	5310	563	23	94	7.6
MIN	1.1	2.0	30	24	37	47	27	89	19	4.4	1.6	.00
CFSM	.02	.54	1.58	2.06	3.46	1.62	.69	4.03	.64	.05	.11	.01
IN.	.02	.60	1.82	2.38	3.60	1.87	.77	4.65	.71	.06	.12	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

MEAN	20.6	178	405	462	637	587	434	318	107	62.4	32.0	59.2
MAX	208	1430	2167	2024	3988	1631	1822	2607	900	440	239	988
(WY)	1986	1958	1979	1950	1989	1975	1979	1984	1969	1989	1984	1979
MIN	.000	.000	.000	3.56	42.6	35.2	39.2	6.46	1.37	.44	.19	.000
(WY)	1954	1954	1964	1981	1941	1941	1986	1941	1964	1964	1993	1953

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1941 - 1995	
	ANNUAL TOTAL	114015.18		86675.96		
ANNUAL MEAN	312		237		273	
HIGHEST ANNUAL MEAN					643	
LOWEST ANNUAL MEAN					59.8	
HIGHEST DAILY MEAN	4190	Mar 28	5310	May 19	28400	Feb 15 1989
LOWEST DAILY MEAN	.37	Aug 23	.00	Sep 9	.00	Oct 21 1940
ANNUAL SEVEN-DAY MINIMUM	.47	Sep 11	.06	Sep 9	.00	Oct 21 1940
INSTANTANEOUS PEAK FLOW			5750		35700	
INSTANTANEOUS PEAK STAGE			18.12		26.81	
ANNUAL RUNOFF (CFSM)	1.61		1.22		1.41	
ANNUAL RUNOFF (INCHES)	21.86		16.62		19.14	
10 PERCENT EXCEEDS	1090		662		718	
50 PERCENT EXCEEDS	27		43		46	
90 PERCENT EXCEEDS	1.3		2.2		.70	

GREEN RIVER BASIN

03321060 POND RIVER NEAR MADISONVILLE, KY

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

DRAINAGE AREA.--469 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 361.80 ft above sea level.

REMARKS.--Estimated daily discharges: Dec. 1-4, 9-26, Jan. 7-14, 17-19, 2-25, Jan. 29 to Feb. 1, Feb. 5-6, Feb. 15 to Mar. 3, Mar. 13-20, Apr. 26-30, May 6-12, May 21 to June 18 and Aug. 29 to Sept. 14. Records poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	15	520	90	400	280	98	274	300	59	46	3.4
2	10	14	400	88	348	260	94	647	500	54	38	2.4
3	9.9	12	300	85	295	240	90	934	800	48	32	2.0
4	9.5	12	250	82	233	227	92	1110	900	45	28	1.6
5	9.5	15	191	75	220	214	92	1290	700	47	42	1.4
6	9.5	26	154	89	200	299	90	1200	400	48	71	.90
7	9.8	19	171	200	159	591	90	1100	340	46	101	.70
8	9.5	16	152	600	126	991	87	900	600	42	115	.50
9	18	24	200	1100	113	1200	81	700	800	38	99	.32
10	15	40	600	840	116	1550	79	600	700	35	99	.28
11	11	34	1000	600	118	1910	77	440	400	33	114	.24
12	11	28	1500	400	101	2090	74	320	380	31	141	.22
13	20	25	1700	300	95	1800	73	258	400	29	152	.20
14	21	23	1600	700	102	1500	78	645	300	27	126	.18
15	19	24	1200	959	400	1100	82	996	200	25	94	6.6
16	16	32	600	961	1100	800	81	1120	140	23	71	17
17	15	32	300	700	2000	500	78	1310	120	20	60	36
18	20	28	400	500	3000	420	77	1950	100	18	57	44
19	24	25	800	800	3200	380	76	2800	88	16	51	39
20	22	24	1200	1130	3000	330	82	3300	78	14	41	36
21	19	29	1000	1200	2200	295	182	3400	74	14	33	34
22	17	30	800	1000	1800	269	529	3100	71	14	27	31
23	17	30	500	600	1000	252	770	2400	74	14	23	26
24	16	29	300	450	700	219	951	1400	72	17	18	20
25	15	29	220	380	500	186	991	700	77	30	15	18
26	15	28	170	283	400	154	900	400	88	44	12	17
27	15	40	141	256	350	135	540	260	79	55	8.6	17
28	14	113	120	312	300	126	340	200	72	68	6.1	13
29	14	480	108	400	---	116	220	2000	67	74	5.0	12
30	14	678	99	500	---	110	180	1600	64	69	4.4	11
31	13	---	93	450	---	104	---	800	---	57	4.0	---
TOTAL	458.7	1954	16789	16130	22576	18648	7274	38154	8984	1154	1734.1	391.94
MEAN	14.8	65.1	542	520	806	602	242	1231	299	37.2	55.9	13.1
MAX	24	678	1700	1200	3200	2090	991	3400	900	74	152	44
MIN	9.5	12	93	75	95	104	73	200	64	14	4.0	.18
CFSM	.03	.14	1.15	1.11	1.72	1.28	.52	2.62	.64	.08	.12	.03
IN.	.04	.15	1.33	1.28	1.79	1.48	.58	3.03	.71	.09	.14	.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

MEAN	19.4	121	325	498	719	933	901	505	164	46.9	26.9	15.1
MAX	33.5	307	542	635	1204	1508	1792	1231	299	58.9	55.9	29.6
(WY)	1994	1994	1995	1994	1994	1994	1994	1995	1995	1994	1995	1992
MIN	6.08	53.4	82.5	292	420	602	242	82.4	47.4	36.0	5.13	5.69
(WY)	1992	1992	1993	1992	1993	1995	1995	1992	1994	1993	1993	1994

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1992 - 1995

ANNUAL TOTAL	182359.41	134247.74	
ANNUAL MEAN	500	368	354
HIGHEST ANNUAL MEAN			503
LOWEST ANNUAL MEAN			242
HIGHEST DAILY MEAN	3520	Jan 30	3400
LOWEST DAILY MEAN	.45	Sep 14	.18
ANNUAL SEVEN-DAY MINIMUM	1.1	Sep 9	.28
INSTANTANEOUS PEAK FLOW			3410
INSTANTANEOUS PEAK STAGE			20.94
ANNUAL RUNOFF (CFSM)	1.07		.78
ANNUAL RUNOFF (INCHES)	14.46		10.65
10 PERCENT EXCEEDS	1800		1100
50 PERCENT EXCEEDS	71		99
90 PERCENT EXCEEDS	9.5		13

OHIO RIVER MAIN STEM

03322000 OHIO RIVER AT EVANSVILLE, IN

LOCATION.--Lat 37°58'20", long 87°34'35", Vanderburgh County, Hydrologic Unit 05140202, on right bank at Riverside Drive and Court Street, at Evansville, 0.6 mi upstream from Pigeon Creek, and at mile 792.3.

DRAINAGE AREA.--107,000 mi², approximately.

PERIOD OF RECORD.--December 1936 to current year (fragmentary prior to October 1940 and after September 1974). Gage-height records collected at same site since 1873 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 328.64 ft above sea level or 329.18 ft, Ohio River datum. Prior to Feb. 20, 1963, and after Sept. 23, 1963, water-stage recorder at same site and datum. Feb. 20, 1963 to Sept. 23, 1963, nonrecording gage 0.6 mi downstream at same datum. Prior to February 1975 auxiliary nonrecording gage at lock and dam 48, 17.3 mi downstream. From February 1975 to May 23, 1985, auxiliary nonrecording gage at Newburgh lock and dam, 16.3 mi upstream. Since May 23, 1985 water-stage recorder at same site.

REMARKS.--Estimated daily discharges: Dec. 1, 2, Jan. 8-12, 18-20, Feb. 8, 9, and Apr. 20, May 2, and June 18. Records good except for periods of estimated record, which are fair. Discharge values published are days with mean values 100,000 ft³/s and above. Flow regulated by Ohio River system of Locks and Dams.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	106000	---	174000	142000	---	104000	197000	115000	---	---
2	---	---	100000	---	150000	146000	---	111000	174000	115000	---	---
3	---	---	---	---	134000	169000	---	123000	164000	107000	---	---
4	---	---	---	---	130000	188000	---	157000	168000	107000	---	---
5	---	---	---	---	133000	198000	---	188000	163000	101000	---	---
6	---	---	---	---	134000	200000	---	197000	156000	---	---	---
7	---	---	103000	---	142000	181000	---	181000	160000	---	133000	---
8	---	---	126000	106000	141000	192000	---	156000	148000	---	160000	---
9	---	---	132000	144000	112000	249000	---	143000	125000	---	166000	---
10	---	---	153000	168000	---	310000	---	150000	104000	---	157000	---
11	---	---	169000	173000	---	343000	---	163000	112000	---	142000	---
12	---	---	186000	151000	---	357000	---	165000	123000	---	133000	---
13	---	---	217000	132000	---	353000	104000	177000	126000	---	113000	---
14	---	---	231000	133000	---	334000	116000	225000	157000	---	104000	---
15	---	---	220000	140000	---	320000	121000	258000	189000	---	---	---
16	---	---	183000	167000	153000	303000	121000	297000	199000	---	---	---
17	---	---	154000	219000	217000	277000	121000	366000	172000	---	---	---
18	---	---	138000	278000	255000	239000	109000	455000	100000	---	---	---
19	---	---	120000	352000	295000	192000	101000	521000	---	---	---	---
20	---	---	112000	398000	327000	147000	100000	566000	---	---	---	---
21	---	---	101000	406000	329000	124000	113000	594000	---	---	---	---
22	---	---	102000	384000	294000	111000	149000	609000	---	---	---	---
23	---	---	---	353000	246000	106000	169000	618000	---	---	---	---
24	---	---	---	333000	209000	104000	174000	614000	---	---	---	---
25	---	---	---	316000	178000	103000	166000	582000	---	---	---	---
26	---	---	---	285000	164000	105000	179000	528000	---	---	---	---
27	---	---	---	240000	154000	104000	183000	476000	---	---	---	---
28	---	---	---	195000	151000	---	168000	380000	---	---	---	---
29	---	---	---	186000	---	---	140000	295000	---	---	---	---
30	---	---	---	189000	---	---	121000	258000	102000	---	---	---
31	---	---	---	190000	---	---	---	230000	---	---	---	---
TOTAL	---	---	---	---	---	---	---	9887000	---	---	---	---
MEAN	---	---	---	---	---	---	---	318900	---	---	---	---
MAX	---	---	---	---	---	---	---	618000	---	---	---	---
MIN	---	---	---	---	---	---	---	104000	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1974, BY WATER YEAR (WY)

MEAN	33050	67340	133200	190500	230600	295800	243400	168300	99760	62350	46830	33900
MAX	87490	214900	394300	475800	518000	633300	493400	353200	208200	178700	174300	130200
(WY)	1955	1973	1973	1950	1950	1945	1948	1958	1946	1958	1958	1950
MIN	7523	9633	22730	32350	66180	81630	90120	32320	26330	18970	14390	10830
(WY)	1954	1954	1944	1956	1954	1969	1971	1941	1966	1944	1965	1953

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1941 - 1974

ANNUAL MEAN										133300		
HIGHEST ANNUAL MEAN										193800		1950
LOWEST ANNUAL MEAN										63210		1954
HIGHEST DAILY MEAN			618000			May 23				909000		Mar 15 1964
LOWEST DAILY MEAN										6700		Nov 6 1953
ANNUAL SEVEN-DAY MINIMUM										6760		Nov 4 1953
INSTANTANEOUS PEAK FLOW			621000			May 23				1410000		Jan 29 1937
INSTANTANEOUS PEAK STAGE			42.96			May 24				53.75		Jan 31 1937
10 PERCENT EXCEEDS										328000		
50 PERCENT EXCEEDS										79600		
90 PERCENT EXCEEDS										20000		

TRADEWATER RIVER BASIN

03383000 TRADEWATER RIVER AT OLNEY, KY

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

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

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

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

REMARKS.--Estimated daily discharges: Oct. 21-30, Nov. 13-26, Feb. 9-11, 21-23 and May 20-25. Records fair except for periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.3	88	48	166	152	63	340	165	25	51	3.7
2	1.1	1.1	60	44	150	141	58	1480	148	33	31	3.7
3	.99	1.5	41	42	137	130	53	1610	165	23	19	3.3
4	.94	1.7	30	40	127	124	50	1300	152	15	14	3.5
5	.94	2.4	30	34	121	138	44	635	133	12	88	3.4
6	.89	3.1	38	52	111	351	41	300	107	11	652	3.2
7	.84	3.0	46	600	98	670	38	200	127	14	372	3.8
8	.90	3.1	56	1000	88	1460	36	160	115	18	157	5.1
9	1.9	4.0	87	687	78	1610	36	141	150	14	115	4.8
10	2.0	4.5	725	317	76	1590	34	130	204	11	120	4.3
11	2.0	4.0	1430	210	74	1330	41	113	165	8.5	103	3.8
12	1.8	4.0	1430	182	72	642	65	93	139	7.3	112	4.4
13	2.3	3.8	1420	169	67	321	49	82	131	6.5	82	4.9
14	1.9	3.6	1140	452	69	232	37	459	105	14	57	4.9
15	1.5	3.2	381	1070	1090	195	31	379	80	36	39	5.2
16	1.4	3.0	168	916	2170	172	29	255	65	20	27	9.7
17	1.3	2.8	234	524	2620	153	25	565	50	11	19	9.4
18	1.3	2.6	334	309	2680	138	21	1880	39	6.6	15	11
19	2.5	2.4	262	580	2760	132	19	3560	31	4.7	11	10
20	2.1	2.2	175	1370	2590	123	22	3500	27	3.8	8.5	6.3
21	2.0	2.0	141	1370	1900	122	140	3000	23	3.7	7.9	3.2
22	1.9	1.9	122	983	1000	120	331	2400	24	3.7	7.0	2.7
23	1.8	1.8	110	457	440	115	279	1800	22	4.6	5.9	2.6
24	1.8	1.7	99	261	247	107	464	1300	25	17	5.2	3.0
25	1.7	1.6	90	193	193	96	550	580	24	42	5.1	3.0
26	1.7	1.8	81	163	171	85	339	206	19	88	4.8	3.0
27	1.6	60	71	146	157	80	204	156	15	86	4.4	3.5
28	1.5	126	64	145	155	86	151	141	12	106	4.1	3.9
29	1.4	184	59	199	---	85	122	240	11	294	3.9	5.1
30	1.3	163	53	242	---	78	107	477	13	154	3.7	4.7
31	1.2	---	50	200	---	69	---	283	---	89	3.7	---
TOTAL	47.90	601.1	9115	13005	19607	10847	3479	27765	2486	1182.4	2148.2	143.1
MEAN	1.55	20.0	294	420	700	350	116	896	82.9	38.1	69.3	4.77
MAX	2.5	184	1430	1370	2760	1610	550	3560	204	294	652	11
MIN	.84	1.1	30	34	67	69	19	82	11	3.7	3.7	2.6
CFSM	.01	.08	1.15	1.65	2.75	1.37	.45	3.51	.32	.15	.27	.02
IN.	.01	.09	1.33	1.90	2.86	1.58	.51	4.05	.36	.17	.31	.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

MEAN	24.9	212	446	569	756	764	596	395	134	87.8	37.8	51.5
MAX	266	2178	1963	2268	3529	2259	1851	1878	949	946	275	798
(WY)	1986	1958	1979	1950	1989	1964	1979	1983	1969	1989	1985	1950
MIN	.000	.000	.96	4.85	19.2	61.9	53.6	7.09	1.18	.003	.000	.000
(WY)	1941	1954	1964	1964	1964	1941	1986	1941	1944	1952	1952	1953

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1941 - 1995
ANNUAL TOTAL	109713.26	90426.70	
ANNUAL MEAN	301	248	333
HIGHEST ANNUAL MEAN			701
LOWEST ANNUAL MEAN			61.6
HIGHEST DAILY MEAN	3110	3560	14000
LOWEST DAILY MEAN	.27	.84	.00
ANNUAL SEVEN-DAY MINIMUM	.38	.94	.00
INSTANTANEOUS PEAK FLOW		3810	14600
INSTANTANEOUS PEAK STAGE		15.37	18.85
ANNUAL RUNOFF (CFSM)	1.18	.97	1.31
ANNUAL RUNOFF (INCHES)	16.01	13.19	17.74
10 PERCENT EXCEEDS	1130	646	1140
50 PERCENT EXCEEDS	46	60	60
90 PERCENT EXCEEDS	1.2	2.0	1.0

CUMBERLAND RIVER BASIN

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

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1979 to current year.

pH: October 1979 to current year.

WATER TEMPERATURES: October 1979 to current year.

DISSOLVED OXYGEN: October 1979 to current year.

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

REMARKS.--Four submersible pumps are located on Martins Fork Dam, at four different elevations referenced to sea level. Pump 1 is located near the bottom of the lake, at an elevation of 1,272 ft; pump 2 is at an elevation of 1,285 ft; pump 3 at an elevation of 1,298 ft; and pump 4 at an elevation of 1,308 ft, occasionally. Each lake level is sampled once every four hours, or six times per day. A maximum and minimum value for each parameter is determined for each level. The monitor was shut down from Nov. 8 to Mar. 28.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	155	147	150	179	172	175	---	---	---	---	---	---
2	155	147	150	175	172	173	---	---	---	---	---	---
3	155	151	154	179	172	176	---	---	---	---	---	---
4	159	151	154	178	171	174	---	---	---	---	---	---
5	158	154	155	178	174	175	---	---	---	---	---	---
6	162	158	160	178	171	176	---	---	---	---	---	---
7	166	158	161	178	174	175	---	---	---	---	---	---
8	170	162	167	---	---	---	---	---	---	---	---	---
9	173	169	170	---	---	---	---	---	---	---	---	---
10	173	169	172	---	---	---	---	---	---	---	---	---
11	176	169	173	---	---	---	---	---	---	---	---	---
12	176	173	175	---	---	---	---	---	---	---	---	---
13	176	176	176	---	---	---	---	---	---	---	---	---
14	180	176	177	---	---	---	---	---	---	---	---	---
15	180	173	176	---	---	---	---	---	---	---	---	---
16	176	173	174	---	---	---	---	---	---	---	---	---
17	176	173	174	---	---	---	---	---	---	---	---	---
18	176	173	175	---	---	---	---	---	---	---	---	---
19	176	173	174	---	---	---	---	---	---	---	---	---
20	176	173	175	---	---	---	---	---	---	---	---	---
21	173	169	171	---	---	---	---	---	---	---	---	---
22	169	169	169	---	---	---	---	---	---	---	---	---
23	173	165	168	---	---	---	---	---	---	---	---	---
24	165	161	163	---	---	---	---	---	---	---	---	---
25	169	161	164	---	---	---	---	---	---	---	---	---
26	176	165	172	---	---	---	---	---	---	---	---	---
27	176	173	175	---	---	---	---	---	---	---	---	---
28	179	172	175	---	---	---	---	---	---	---	---	---
29	179	175	178	---	---	---	---	---	---	---	---	---
30	179	175	176	---	---	---	---	---	---	---	---	---
31	175	172	174	---	---	---	---	---	---	---	---	---
MONTH	180	147	169	179	171	175	---	---	---	---	---	---

CUMBERLAND RIVER BASIN

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

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	PUMP NUMBER 2			PUMP NUMBER 2			PUMP NUMBER 2			PUMP NUMBER 2		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	175	167	172	179	175	176	---	---	---	---	---	---
2	178	175	176	175	172	174	---	---	---	---	---	---
3	182	175	177	179	172	174	---	---	---	---	---	---
4	178	174	176	178	174	175	---	---	---	---	---	---
5	177	174	175	178	171	176	---	---	---	---	---	---
6	177	174	176	178	174	175	---	---	---	---	---	---
7	181	174	177	178	174	177	---	---	---	---	---	---
8	181	174	178	---	---	---	---	---	---	---	---	---
9	181	176	179	---	---	---	---	---	---	---	---	---
10	176	173	174	---	---	---	---	---	---	---	---	---
11	176	173	174	---	---	---	---	---	---	---	---	---
12	180	173	176	---	---	---	---	---	---	---	---	---
13	176	173	175	---	---	---	---	---	---	---	---	---
14	180	176	177	---	---	---	---	---	---	---	---	---
15	180	173	176	---	---	---	---	---	---	---	---	---
16	180	173	176	---	---	---	---	---	---	---	---	---
17	180	176	177	---	---	---	---	---	---	---	---	---
18	180	176	179	---	---	---	---	---	---	---	---	---
19	176	176	176	---	---	---	---	---	---	---	---	---
20	180	176	178	---	---	---	---	---	---	---	---	---
21	176	173	176	---	---	---	---	---	---	---	---	---
22	180	176	178	---	---	---	---	---	---	---	---	---
23	180	173	176	---	---	---	---	---	---	---	---	---
24	180	173	178	---	---	---	---	---	---	---	---	---
25	176	173	176	---	---	---	---	---	---	---	---	---
26	176	173	174	---	---	---	---	---	---	---	---	---
27	180	173	176	---	---	---	---	---	---	---	---	---
28	179	172	175	---	---	---	---	---	---	---	---	---
29	179	175	176	---	---	---	---	---	---	---	---	---
30	179	175	178	---	---	---	---	---	---	---	---	---
31	179	175	177	---	---	---	---	---	---	---	---	---
MONTH	182	167	176	179	171	175	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	115	111	112	130	123	128
2	---	---	---	---	---	---	115	107	110	---	---	---
3	---	---	---	---	---	---	115	107	110	138	115	127
4	---	---	---	---	---	---	115	111	112	127	111	122
5	---	---	---	---	---	---	116	112	113	138	114	128
6	---	---	---	---	---	---	116	112	115	133	110	122
7	---	---	---	---	---	---	116	112	114	133	126	129
8	---	---	---	---	---	---	116	108	113	129	122	126
9	---	---	---	---	---	---	121	116	117	133	118	127
10	---	---	---	---	---	---	121	117	120	141	118	129
11	---	---	---	---	---	---	121	117	118	141	122	134
12	---	---	---	---	---	---	121	117	118	141	106	117
13	---	---	---	---	---	---	122	117	121	---	---	---
14	---	---	---	---	---	---	122	118	121	---	---	---
15	---	---	---	---	---	---	122	118	119	---	---	---
16	---	---	---	---	---	---	122	118	120	105	93	102
17	---	---	---	---	---	---	122	118	119	113	93	106
18	---	---	---	---	---	---	123	119	121	117	109	115
19	---	---	---	---	---	---	127	119	122	125	105	112
20	---	---	---	---	---	---	127	119	123	126	101	118
21	---	---	---	---	---	---	127	123	124	122	110	115
22	---	---	---	---	---	---	128	123	125	110	106	109
23	---	---	---	---	---	---	128	124	126	122	106	115
24	---	---	---	---	---	---	128	124	125	118	110	115
25	---	---	---	---	---	---	128	124	127	118	106	114
26	---	---	---	---	---	---	128	124	126	118	110	115
27	---	---	---	---	---	---	124	120	123	119	110	115
28	---	---	---	---	---	---	130	123	126	119	115	118
29	---	---	---	106	102	105	130	123	127	123	111	115
30	---	---	---	114	102	109	130	119	125	119	111	116
31	---	---	---	115	106	109	---	---	---	119	111	115
MONTH	---	---	---	115	102	108	130	107	120	141	93	119

CUMBERLAND RIVER BASIN

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

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	JUNE			MAX	JULY			MAX	AUGUST			SEPTEMBER		MEAN
		MIN	MEAN	MEAN		MIN	MEAN	MAX		MIN	MEAN	MAX	MIN		
1	123	111	118	127	123	124	137	133	135	153	145	149			
2	127	115	119	127	123	124	141	133	138	153	145	148			
3	123	119	122	127	123	124	133	133	133	150	145	148			
4	123	119	122	127	123	124	137	133	135	154	146	149			
5	127	119	122	127	123	124	137	133	135	154	146	151			
6	119	115	118	130	123	126	137	133	136	154	146	152			
7	123	115	119	130	123	125	142	134	138	154	150	151			
8	120	116	118	127	123	126	142	134	138	154	150	153			
9	124	116	120	127	123	126	146	138	141	154	150	152			
10	124	116	120	130	123	126	142	138	140	158	150	154			
11	120	116	119	127	123	126	146	138	142	158	154	156			
12	124	116	120	127	123	126	146	142	143	162	154	157			
13	124	120	121	130	123	127	150	142	147	158	150	155			
14	124	116	121	131	124	128	150	142	144	158	154	157			
15	124	120	121	131	128	129	150	142	146	158	158	158			
16	124	120	122	128	128	128	153	145	147	162	154	157			
17	124	120	123	131	128	130	150	142	148	162	154	159			
18	124	120	123	131	128	130	149	145	148	166	158	160			
19	124	120	123	131	128	129	149	145	148	166	158	159			
20	124	120	123	131	131	131	149	145	148	162	154	157			
21	124	120	123	131	128	130	153	145	148	162	154	157			
22	124	120	123	131	129	131	153	145	148	162	154	159			
23	128	120	123	131	128	130	149	145	147	166	158	162			
24	124	120	122	136	128	131	149	145	147	166	158	161			
25	124	120	123	132	129	130	153	145	150	162	158	159			
26	124	120	123	136	129	132	153	145	149	162	154	156			
27	123	119	121	132	129	131	153	145	149	158	154	157			
28	127	123	124	136	129	132	149	145	148	166	158	162			
29	127	119	124	136	129	132	149	145	150	158	150	152			
30	127	123	124	136	129	132	153	149	150	158	150	154			
31	---	---	---	141	133	136	149	145	148	---	---	---			
MONTH	128	111	121	141	123	128	153	133	144	166	145	155			
YEAR	182	93	139	179	171	175	175	171	175	166	145	155			
PUMP NUMBER 3															
OCTOBER															
1	178	175	176	175	172	174	---	---	---	---	---	---			
2	175	175	175	175	172	174	---	---	---	---	---	---			
3	178	175	176	179	172	175	---	---	---	---	---	---			
4	178	174	176	178	171	174	---	---	---	---	---	---			
5	177	174	176	178	171	175	---	---	---	---	---	---			
6	177	174	175	178	174	176	---	---	---	---	---	---			
7	177	174	175	178	178	178	---	---	---	---	---	---			
8	176	174	175	---	---	---	---	---	---	---	---	---			
9	176	173	175	---	---	---	---	---	---	---	---	---			
10	176	173	174	---	---	---	---	---	---	---	---	---			
11	176	173	175	---	---	---	---	---	---	---	---	---			
12	176	173	175	---	---	---	---	---	---	---	---	---			
13	180	173	176	---	---	---	---	---	---	---	---	---			
14	180	173	176	---	---	---	---	---	---	---	---	---			
15	180	176	177	---	---	---	---	---	---	---	---	---			
16	180	173	176	---	---	---	---	---	---	---	---	---			
17	180	173	176	---	---	---	---	---	---	---	---	---			
18	180	173	175	---	---	---	---	---	---	---	---	---			
19	180	176	177	---	---	---	---	---	---	---	---	---			
20	180	173	176	---	---	---	---	---	---	---	---	---			
21	180	173	176	---	---	---	---	---	---	---	---	---			
22	176	173	174	---	---	---	---	---	---	---	---	---			
23	176	173	176	---	---	---	---	---	---	---	---	---			
24	180	176	177	---	---	---	---	---	---	---	---	---			
25	180	173	178	---	---	---	---	---	---	---	---	---			
26	180	173	176	---	---	---	---	---	---	---	---	---			
27	176	173	175	---	---	---	---	---	---	---	---	---			
28	179	172	175	---	---	---	---	---	---	---	---	---			
29	179	175	176	---	---	---	---	---	---	---	---	---			
30	---	---	---	---	---	---	---	---	---	---	---	---			
31	---	---	---	---	---	---	---	---	---	---	---	---			
MONTH	180	172	176	179	171	175	---	---	---	---	---	---			
YEAR	182	93	139	179	171	175	---	---	---	---	---	---			
NOVEMBER															
DECEMBER															
JANUARY															

CUMBERLAND RIVER BASIN
03400798 MARTINS FORK LAKE AT MARTINS FORK DAM NEAR SMITH, KY--Continued
SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
PUMP NUMBER 3

DAY	MAX	FEBRUARY			MAX	MARCH			MAX	APRIL			MAX	MAY			MEAN
		MIN	MEAN	MEAN		MIN	MEAN	MEAN		MIN	MEAN	MEAN		MIN	MEAN	MEAN	
1	---	---	---	---	---	---	---	---	107	103	106	134	130	132			
2	---	---	---	---	---	---	---	---	111	107	108	---	---	132			
3	---	---	---	---	---	---	---	---	111	107	109	138	127	134			
4	---	---	---	---	---	---	---	---	111	107	108	134	130	132			
5	---	---	---	---	---	---	---	---	112	108	109	138	133	136			
6	---	---	---	---	---	---	---	---	112	108	110	137	133	136			
7	---	---	---	---	---	---	---	---	112	108	111	141	129	134			
8	---	---	---	---	---	---	---	---	112	112	112	137	133	136			
9	---	---	---	---	---	---	---	---	116	112	113	141	133	136			
10	---	---	---	---	---	---	---	---	117	113	114	141	133	136			
11	---	---	---	---	---	---	---	---	117	113	115	141	126	135			
12	---	---	---	---	---	---	---	---	117	113	115	137	122	126			
13	---	---	---	---	---	---	---	---	117	113	115	---	---	---			
14	---	---	---	---	---	---	---	---	118	114	116	---	---	---			
15	---	---	---	---	---	---	---	---	122	114	117	---	---	---			
16	---	---	---	---	---	---	---	---	122	118	119	117	101	110			
17	---	---	---	---	---	---	---	---	122	118	121	121	113	116			
18	---	---	---	---	---	---	---	---	123	119	121	125	117	120			
19	---	---	---	---	---	---	---	---	123	119	121	128	121	124			
20	---	---	---	---	---	---	---	---	123	119	121	126	118	124			
21	---	---	---	---	---	---	---	---	123	119	120	122	114	117			
22	---	---	---	---	---	---	---	---	128	119	122	118	114	115			
23	---	---	---	---	---	---	---	---	124	120	122	122	118	121			
24	---	---	---	---	---	---	---	---	124	120	123	122	114	118			
25	---	---	---	---	---	---	---	---	128	120	124	122	118	121			
26	---	---	---	---	---	---	---	---	131	124	128	126	118	123			
27	---	---	---	---	---	---	---	---	131	128	129	123	119	122			
28	---	---	---	---	---	---	---	---	134	127	130	127	119	124			
29	---	---	---	---	---	---	---	---	130	130	131	130	119	126			
30	---	---	---	---	---	---	---	---	130	127	129	134	127	130			
31	---	---	---	---	---	---	---	---	---	---	---	130	130	130			
MONTH	---	---	---	---	110	98	103	134	103	118	141	101	126				
JUNE																	
1	130	127	128	150	146	142	143	154	150	151	154	146	149	148			
2	134	127	130	150	146	142	148	154	149	150	154	150	152	148			
3	138	127	132	150	142	146	148	154	149	150	154	146	148	146			
4	130	119	126	146	138	138	145	153	149	150	150	146	147	149			
5	130	127	128	146	138	143	143	153	150	151	150	150	146	149			
6	130	127	128	146	138	145	145	153	149	150	150	146	146	149			
7	130	127	128	150	142	148	148	154	149	150	154	146	146	148			
8	135	124	130	150	142	146	146	150	146	150	150	146	146	149			
9	135	128	131	150	142	143	143	154	146	150	150	146	146	149			
10	135	131	132	146	146	146	146	154	146	151	150	150	150	150			
11	135	131	132	146	142	143	143	154	149	151	154	146	146	149			
12	135	131	134	150	142	142	143	154	150	152	154	146	146	152			
13	139	131	135	150	146	148	148	154	151	153	154	146	146	150			
14	135	132	132	151	146	149	150	150	151	151	150	146	146	150			
15	139	131	135	151	147	148	148	154	145	150	150	146	146	147			
16	139	135	137	151	147	148	148	146	149	149	150	146	146	149			
17	135	135	135	151	147	147	147	149	149	149	154	146	146	151			
18	139	135	138	151	147	150	150	149	148	148	154	146	146	151			
19	139	135	137	151	147	148	148	148	148	148	154	146	146	151			
20	143	131	137	151	147	148	148	153	145	150	154	146	146	152			
21	139	135	137	151	147	149	149	149	149	150	154	146	146	151			
22	143	135	137	151	147	148	148	145	145	150	154	146	146	151			
23	143	139	140	155	147	149	149	149	151	151	154	146	146	152			
24	147	135	140	151	143	147	147	149	149	150	150	146	146	150			
25	147	139	142	152	144	148	148	148	148	148	154	146	146	152			
26	143	143	143	148	144	147	147	149	149	151	154	146	146	153			
27	146	138	141	152	144	147	147	149	149	151	150	146	146	149			
28	146	142	144	152	148	148	148	149	148	148	154	146	146	151			
29	150	142	145	152	144	148	148	149	148	148	154	146	146	151			
30	146	142	144	148	144	146	146	149	148	148	154	146	146	152			
31	---	---	---	153	144	148	148	153	149	150	---	---	---	---			
MONTH	150	119	135	155	138	147	147	154	145	150	154	145	145	150			
YEAR	180	98	144	155	138	147	147	154	145	150	154	145	145	150			

CUMBERLAND RIVER BASIN

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

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

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

PUMP NUMBER 1

PUMP NUMBER 1

APRIL

MAY

JUNE

JULY

AUGUST

SEPTEMBER

CUMBERLAND RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.4	20.2	20.3	17.2	16.4	16.7	---	---	---	---	---	---
2	20.4	20.4	20.4	16.4	16.1	16.2	---	---	---	---	---	---
3	20.4	20.2	20.3	16.1	15.9	16.0	---	---	---	---	---	---
4	20.6	20.4	20.5	15.9	15.7	15.8	---	---	---	---	---	---
5	20.6	20.4	20.5	15.7	15.5	15.6	---	---	---	---	---	---
6	20.8	20.4	20.7	15.5	15.3	15.4	---	---	---	---	---	---
7	21.0	20.4	20.7	15.5	15.3	15.4	---	---	---	---	---	---
8	20.8	20.8	20.8	---	---	---	---	---	---	---	---	---
9	20.8	20.6	20.8	---	---	---	---	---	---	---	---	---
10	20.8	20.6	20.7	---	---	---	---	---	---	---	---	---
11	20.8	20.2	20.6	---	---	---	---	---	---	---	---	---
12	20.0	19.8	20.0	---	---	---	---	---	---	---	---	---
13	19.8	19.6	19.7	---	---	---	---	---	---	---	---	---
14	19.6	19.4	19.5	---	---	---	---	---	---	---	---	---
15	19.4	19.0	19.2	---	---	---	---	---	---	---	---	---
16	19.0	18.8	18.9	---	---	---	---	---	---	---	---	---
17	18.8	18.6	18.7	---	---	---	---	---	---	---	---	---
18	18.8	18.6	18.7	---	---	---	---	---	---	---	---	---
19	18.8	18.6	18.6	---	---	---	---	---	---	---	---	---
20	18.6	18.6	18.6	---	---	---	---	---	---	---	---	---
21	18.6	18.4	18.6	---	---	---	---	---	---	---	---	---
22	18.4	18.4	18.4	---	---	---	---	---	---	---	---	---
23	18.4	18.2	18.3	---	---	---	---	---	---	---	---	---
24	18.2	18.0	18.0	---	---	---	---	---	---	---	---	---
25	18.2	18.0	18.0	---	---	---	---	---	---	---	---	---
26	18.2	18.0	18.1	---	---	---	---	---	---	---	---	---
27	17.8	17.4	17.7	---	---	---	---	---	---	---	---	---
28	17.6	17.2	17.3	---	---	---	---	---	---	---	---	---
29	17.2	16.8	17.0	---	---	---	---	---	---	---	---	---
30	16.8	16.4	16.6	---	---	---	---	---	---	---	---	---
31	16.6	16.4	16.5	---	---	---	---	---	---	---	---	---
MONTH	21.0	16.4	19.1	17.2	15.3	15.9	---	---	---	---	---	---

PUMP NUMBER 1

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	12.1	11.9	12.0	14.5	14.1	14.3
2	---	---	---	---	---	---	12.5	11.7	12.0	---	---	---
3	---	---	---	---	---	---	11.9	11.9	11.9	15.1	14.3	14.5
4	---	---	---	---	---	---	12.3	11.9	12.2	14.7	14.3	14.4
5	---	---	---	---	---	---	12.5	12.1	12.3	14.7	14.1	14.4
6	---	---	---	---	---	---	12.3	12.1	12.2	14.7	14.1	14.4
7	---	---	---	---	---	---	12.3	12.1	12.2	14.9	14.3	14.5
8	---	---	---	---	---	---	12.5	12.3	12.4	14.7	14.5	14.6
9	---	---	---	---	---	---	12.5	12.3	12.4	14.9	14.7	14.7
10	---	---	---	---	---	---	12.9	12.5	12.7	14.7	14.5	14.6
11	---	---	---	---	---	---	12.9	12.7	12.7	15.7	15.1	15.3
12	---	---	---	---	---	---	13.1	12.7	12.9	15.7	15.1	15.4
13	---	---	---	---	---	---	13.1	12.9	13.0	---	---	---
14	---	---	---	---	---	---	13.3	12.9	13.1	---	---	---
15	---	---	---	---	---	---	13.3	13.1	13.3	---	---	---
16	---	---	---	---	---	---	13.3	13.1	13.3	---	---	---
17	---	---	---	---	---	---	13.5	13.1	13.2	15.3	14.9	15.2
18	---	---	---	---	---	---	13.5	13.3	13.4	15.5	14.9	15.3
19	---	---	---	---	---	---	13.5	13.3	13.4	15.5	15.1	15.3
20	---	---	---	---	---	---	13.7	13.5	13.6	15.5	15.3	15.4
21	---	---	---	---	---	---	13.9	13.7	13.7	15.7	15.5	15.6
22	---	---	---	---	---	---	14.1	13.9	13.9	15.9	15.5	15.7
23	---	---	---	---	---	---	14.1	13.9	14.0	15.7	15.5	15.7
24	---	---	---	---	---	---	14.1	13.9	14.0	16.1	15.7	15.9
25	---	---	---	---	---	---	14.1	13.9	14.0	16.3	15.7	16.0
26	---	---	---	---	---	---	14.1	13.9	13.9	16.3	15.7	16.0
27	---	---	---	---	---	---	13.9	13.5	13.7	15.7	15.7	15.7
28	---	---	---	---	---	---	13.9	13.5	13.7	15.9	15.7	15.8
29	---	---	---	12.3	11.7	12.1	14.3	13.9	14.1	16.1	15.7	15.9
30	---	---	---	12.9	11.9	12.4	14.3	13.9	14.2	16.1	15.7	15.9
31	---	---	---	12.5	11.9	12.3	---	---	---	16.3	15.7	16.0
MONTH	---	---	---	12.9	11.7	12.3	14.3	11.7	13.1	16.3	14.1	15.2

CUMBERLAND RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	PUMP NUMBER 1				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE	MEAN	MAX	JULY									
1	16.3	15.9	16.1	15.9	15.7	15.9	16.4	16.1	16.2	16.4	16.3	16.3	16.4	
2	16.4	15.9	16.2	15.9	15.9	15.9	16.3	16.1	16.3	16.4	16.3	16.3	16.4	
3	16.8	16.3	16.4	15.9	15.7	15.8	16.3	16.1	16.2	16.4	16.3	16.3	16.4	
4	16.6	16.4	16.5	16.5	15.7	15.8	16.3	16.1	16.1	16.4	16.3	16.3	16.4	
5	16.8	16.3	16.6	16.1	15.9	16.0	16.3	16.1	16.2	16.4	16.3	16.3	16.4	
6	16.3	15.9	16.3	16.1	15.9	16.0	16.3	15.9	16.1	16.4	16.3	16.3	16.4	
7	16.3	15.9	16.1	16.1	15.9	16.0	16.3	16.1	16.2	16.4	16.3	16.3	16.4	
8	16.1	15.9	16.0	15.9	15.9	16.0	16.3	16.1	16.2	16.4	16.3	16.3	16.4	
9	16.1	15.9	16.1	16.1	15.9	15.9	16.3	16.1	16.2	16.4	16.3	16.3	16.4	
10	16.1	15.9	16.0	16.1	15.9	16.0	16.3	16.1	16.2	16.4	16.3	16.3	16.4	
11	16.1	15.9	15.9	16.1	15.9	16.0	16.1	16.1	16.1	16.4	16.4	16.4	16.4	
12	16.1	15.9	15.9	15.9	15.9	15.9	16.3	16.1	16.2	16.4	16.3	16.3	16.4	
13	16.1	15.7	15.9	16.1	15.9	16.0	16.3	16.1	16.2	16.4	16.4	16.4	16.4	
14	15.9	15.7	15.8	16.1	15.9	15.9	16.3	16.1	16.2	16.4	16.4	16.4	16.5	
15	15.9	15.7	15.9	15.9	15.9	15.9	16.3	16.1	16.2	16.4	16.4	16.4	16.5	
16	15.9	15.7	15.9	16.1	15.9	16.0	16.3	16.1	16.2	16.4	16.4	16.4	16.4	
17	15.9	15.9	15.9	16.1	15.9	16.0	16.3	16.1	16.3	16.4	16.4	16.4	16.4	
18	15.9	15.7	15.8	16.1	15.9	16.0	16.3	16.1	16.3	16.4	16.4	16.4	16.5	
19	15.9	15.7	15.8	16.1	15.9	16.0	16.3	16.3	16.3	16.4	16.4	16.4	16.4	
20	15.9	15.7	15.8	16.1	15.9	15.9	16.3	16.1	16.2	16.4	16.3	16.3	16.4	
21	15.9	15.7	15.8	16.1	15.9	16.1	16.4	16.3	16.3	16.3	16.4	16.4	16.5	
22	15.9	15.7	15.8	16.1	15.9	16.0	16.4	16.3	16.3	16.3	16.4	16.4	16.5	
23	15.9	15.7	15.8	16.1	15.9	16.0	16.4	16.1	16.3	16.3	16.4	16.4	16.4	
24	15.9	15.7	15.8	16.1	15.9	16.0	16.4	16.1	16.3	16.3	16.4	16.4	16.4	
25	15.9	15.7	15.8	16.3	15.9	16.1	16.4	16.3	16.3	16.3	16.4	16.4	16.4	
26	15.9	15.7	15.8	16.3	16.1	16.2	16.3	16.3	16.3	16.3	16.4	16.4	16.5	
27	15.9	15.7	15.9	16.1	15.9	16.1	16.4	16.3	16.3	16.3	16.4	16.4	16.4	
28	15.9	15.7	15.8	16.1	15.9	16.1	16.4	16.3	16.3	16.3	16.4	16.4	16.4	
29	16.1	15.7	15.8	16.1	15.9	16.1	16.4	16.3	16.3	16.3	16.4	16.4	16.4	
30	15.9	15.7	15.8	16.3	16.1	16.1	16.4	16.3	16.3	16.3	16.4	16.4	16.6	
31	---	---	---	16.3	16.1	16.2	16.4	16.3	16.3	16.3	16.6	16.4	16.6	
MONTH	16.8	15.7	16.0	16.3	15.7	16.0	16.4	15.9	16.2	16.6	16.3	16.3	16.4	
YEAR	21.0	11.7	16.0											
PUMP NUMBER 2														
OCTOBER														
1	22.3	22.1	22.1	17.8	17.0	17.4	---	---	---	---	---	---	---	
2	22.3	22.1	22.1	17.0	16.3	16.6	---	---	---	---	---	---	---	
3	22.1	21.7	22.0	16.6	16.3	16.4	---	---	---	---	---	---	---	
4	22.1	21.7	21.9	16.6	15.9	16.3	---	---	---	---	---	---	---	
5	22.1	21.7	21.8	16.8	15.7	16.3	---	---	---	---	---	---	---	
6	21.7	21.4	21.6	16.6	16.3	16.6	---	---	---	---	---	---	---	
7	21.5	21.4	21.4	16.3	15.7	16.0	---	---	---	---	---	---	---	
8	21.4	21.2	21.3	---	---	---	---	---	---	---	---	---	---	
9	21.4	21.2	21.3	---	---	---	---	---	---	---	---	---	---	
10	21.2	21.0	21.1	---	---	---	---	---	---	---	---	---	---	
11	21.0	20.2	20.7	---	---	---	---	---	---	---	---	---	---	
12	20.2	19.8	20.0	---	---	---	---	---	---	---	---	---	---	
13	20.0	19.6	19.7	---	---	---	---	---	---	---	---	---	---	
14	19.6	19.4	19.5	---	---	---	---	---	---	---	---	---	---	
15	19.6	19.2	19.4	---	---	---	---	---	---	---	---	---	---	
16	19.4	19.0	19.2	---	---	---	---	---	---	---	---	---	---	
17	19.2	19.0	19.2	---	---	---	---	---	---	---	---	---	---	
18	19.2	18.8	19.0	---	---	---	---	---	---	---	---	---	---	
19	19.2	18.8	19.1	---	---	---	---	---	---	---	---	---	---	
20	19.0	18.8	18.9	---	---	---	---	---	---	---	---	---	---	
21	19.0	18.8	18.9	---	---	---	---	---	---	---	---	---	---	
22	18.8	18.6	18.7	---	---	---	---	---	---	---	---	---	---	
23	18.8	18.6	18.7	---	---	---	---	---	---	---	---	---	---	
24	18.6	18.4	18.3	---	---	---	---	---	---	---	---	---	---	
25	18.4	18.2	18.3	---	---	---	---	---	---	---	---	---	---	
26	18.2	17.8	18.0	---	---	---	---	---	---	---	---	---	---	
27	17.8	17.4	17.6	---	---	---	---	---	---	---	---	---	---	
28	17.4	17.0	17.2	---	---	---	---	---	---	---	---	---	---	
29	17.2	16.8	17.0	---	---	---	---	---	---	---	---	---	---	
30	17.2	16.8	17.0	---	---	---	---	---	---	---	---	---	---	
31	17.8	16.8	17.3	---	---	---	---	---	---	---	---	---	---	
MONTH	22.3	16.8	19.6	17.8	15.7	16.5	---	---	---	---	---	---	---	
NOVEMBER														
DECEMBER														
JANUARY														

CUMBERLAND RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 3

DAY	MAX	OCTOBER		MAX	NOVEMBER		MAX	DECEMBER			MAX	JANUARY	
		MIN	MEAN		MIN	MEAN		MIN	MEAN	MIN		MEAN	
1	22.9	22.7	22.8	17.4	17.0	17.3	---	---	---	---	---	---	---
2	22.9	22.5	22.6	17.4	16.8	17.0	---	---	---	---	---	---	---
3	22.7	22.5	22.6	17.0	16.3	16.6	---	---	---	---	---	---	---
4	22.5	22.1	22.4	16.8	16.1	16.5	---	---	---	---	---	---	---
5	22.3	22.1	22.1	17.0	15.9	16.4	---	---	---	---	---	---	---
6	22.1	21.7	21.8	17.0	16.3	16.8	---	---	---	---	---	---	---
7	21.9	21.7	21.7	16.4	15.9	16.1	---	---	---	---	---	---	---
8	21.9	21.7	21.8	---	---	---	---	---	---	---	---	---	---
9	21.7	21.5	21.6	---	---	---	---	---	---	---	---	---	---
10	21.9	21.2	21.4	---	---	---	---	---	---	---	---	---	---
11	21.4	20.6	20.8	---	---	---	---	---	---	---	---	---	---
12	20.4	20.0	20.2	---	---	---	---	---	---	---	---	---	---
13	20.0	19.8	19.9	---	---	---	---	---	---	---	---	---	---
14	19.8	19.6	19.7	---	---	---	---	---	---	---	---	---	---
15	20.0	19.4	19.6	---	---	---	---	---	---	---	---	---	---
16	20.0	19.4	19.7	---	---	---	---	---	---	---	---	---	---
17	19.6	19.4	19.5	---	---	---	---	---	---	---	---	---	---
18	20.2	19.4	19.8	---	---	---	---	---	---	---	---	---	---
19	19.4	19.2	19.3	---	---	---	---	---	---	---	---	---	---
20	19.6	19.0	19.3	---	---	---	---	---	---	---	---	---	---
21	19.8	19.0	19.2	---	---	---	---	---	---	---	---	---	---
22	19.2	19.0	19.0	---	---	---	---	---	---	---	---	---	---
23	19.4	18.8	19.1	---	---	---	---	---	---	---	---	---	---
24	19.4	18.8	19.0	---	---	---	---	---	---	---	---	---	---
25	19.0	18.4	18.7	---	---	---	---	---	---	---	---	---	---
26	18.4	18.0	18.3	---	---	---	---	---	---	---	---	---	---
27	18.4	17.6	18.0	---	---	---	---	---	---	---	---	---	---
28	18.4	17.2	17.7	---	---	---	---	---	---	---	---	---	---
29	18.2	17.2	17.5	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	22.9	17.2	20.2	17.4	15.9	16.7	---	---	---	---	---	---	---

PUMP NUMBER 3

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	16.1	14.3	15.1	17.0	16.3	16.6
2	---	---	---	---	---	---	15.5	13.9	14.7	---	---	---
3	---	---	---	---	---	---	16.1	14.5	15.1	16.6	15.9	16.2
4	---	---	---	---	---	---	16.1	14.5	15.3	18.0	16.3	16.9
5	---	---	---	---	---	---	16.3	14.5	15.4	16.3	15.7	16.1
6	---	---	---	---	---	---	17.2	14.9	15.9	16.8	15.9	16.5
7	---	---	---	---	---	---	16.8	15.1	15.8	17.0	16.4	16.7
8	---	---	---	---	---	---	17.2	15.3	16.4	17.6	16.4	16.8
9	---	---	---	---	---	---	17.2	16.1	16.6	17.8	17.0	17.4
10	---	---	---	---	---	---	19.6	16.6	18.0	17.4	16.6	17.0
11	---	---	---	---	---	---	19.2	17.2	18.5	17.8	16.8	17.3
12	---	---	---	---	---	---	18.8	18.2	18.4	17.6	17.0	17.3
13	---	---	---	---	---	---	18.6	17.0	17.7	---	---	---
14	---	---	---	---	---	---	18.2	16.8	17.2	---	---	---
15	---	---	---	---	---	---	17.8	16.6	17.1	---	---	---
16	---	---	---	---	---	---	18.2	17.0	17.6	16.4	15.7	16.1
17	---	---	---	---	---	---	18.2	17.4	17.8	16.4	16.1	16.2
18	---	---	---	---	---	---	19.2	17.2	18.3	16.8	16.3	16.5
19	---	---	---	---	---	---	20.0	18.6	19.3	16.8	16.3	16.5
20	---	---	---	---	---	---	19.8	18.8	19.2	17.0	16.4	16.7
21	---	---	---	---	---	---	20.2	19.4	19.7	17.2	16.6	16.9
22	---	---	---	---	---	---	20.4	18.2	19.3	17.2	16.8	17.0
23	---	---	---	---	---	---	18.6	18.2	18.4	17.6	17.2	17.3
24	---	---	---	---	---	---	18.2	17.4	17.9	17.8	17.0	17.5
25	---	---	---	---	---	---	17.6	16.3	17.0	18.8	17.2	18.1
26	---	---	---	---	---	---	18.0	15.7	16.8	20.0	18.0	18.9
27	---	---	---	---	---	---	18.0	15.9	16.8	19.2	17.6	18.7
28	---	---	---	---	---	---	16.8	15.7	16.3	20.2	18.4	19.0
29	---	---	---	16.3	15.7	15.9	17.2	16.1	16.6	20.4	18.4	19.4
30	---	---	---	16.4	14.9	15.5	18.2	16.3	17.0	21.2	19.0	20.1
31	---	---	---	15.5	14.3	14.9	---	---	---	20.8	19.0	20.1
MONTH	---	---	---	16.4	14.3	15.4	20.4	13.9	17.2	21.2	15.7	17.4

CUMBERLAND RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR JUNE 1995 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
PUMP NUMBER 4												
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	31.6	29.4	30.2	---	---	---
2	---	---	---	---	---	---	31.6	29.2	30.1	---	---	---
3	---	---	---	---	---	---	29.6	29.2	29.4	---	---	---
4	---	---	---	---	---	---	29.4	28.8	29.1	---	---	---
5	---	---	---	---	---	---	29.6	28.8	29.3	---	---	---
6	---	---	---	---	---	---	29.2	28.2	28.7	---	---	---
7	---	---	---	---	---	---	28.4	28.0	28.2	---	---	---
8	---	---	---	28.4	27.0	27.6	28.0	27.6	27.8	---	---	---
9	---	---	---	28.6	26.7	27.6	28.6	27.4	28.0	---	---	---
10	---	---	---	29.0	27.0	27.9	29.4	27.4	28.3	---	---	---
11	---	---	---	29.2	27.0	27.8	29.8	28.2	28.8	---	---	---
12	---	---	---	30.0	27.4	28.6	30.8	28.0	29.1	---	---	---
13	---	---	---	30.4	28.2	29.4	31.2	28.6	29.8	---	---	---
14	---	---	---	30.2	28.6	29.2	31.0	29.4	30.2	---	---	---
15	---	---	---	32.0	29.0	30.4	31.4	29.4	30.4	---	---	---
16	---	---	---	31.2	29.6	30.3	30.8	29.4	30.0	---	---	---
17	---	---	---	31.0	29.2	29.8	31.0	29.2	30.1	---	---	---
18	---	---	---	30.0	29.0	29.4	30.8	29.4	29.9	---	---	---
19	---	---	---	30.2	28.6	29.3	30.8	28.8	29.5	---	---	---
20	---	---	---	29.8	28.6	29.2	29.2	29.0	29.1	---	---	---
21	---	---	---	29.2	28.4	28.8	30.6	28.6	29.7	---	---	---
22	---	---	---	29.4	28.4	28.9	29.6	29.2	29.5	---	---	---
23	---	---	---	29.4	28.6	29.0	---	---	---	---	---	---
24	---	---	---	29.4	28.6	29.0	---	---	---	---	---	---
25	---	---	---	30.4	28.6	29.4	---	---	---	---	---	---
26	---	---	---	30.8	28.8	29.7	---	---	---	---	---	---
27	---	---	---	30.4	28.4	29.3	---	---	---	---	---	---
28	---	---	---	29.4	28.8	29.2	---	---	---	---	---	---
29	---	---	---	31.2	28.8	29.4	---	---	---	---	---	---
30	---	---	---	31.2	28.6	29.7	---	---	---	---	---	---
31	---	---	---	31.8	29.0	30.1	---	---	---	---	---	---
MONTH	---	---	---	32.0	26.7	29.1	31.6	27.4	29.3	---	---	---
YEAR	32.0	19.8	27.6									

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 1												
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	1.0	.8	.9	8.0	6.9	7.5	---	---	---	---	---	---
2	1.2	1.1	1.1	8.1	7.5	7.8	---	---	---	---	---	---
3	1.4	1.3	1.4	8.1	7.9	8.0	---	---	---	---	---	---
4	1.7	1.4	1.6	8.0	7.7	7.9	---	---	---	---	---	---
5	1.9	1.7	1.8	8.1	7.9	8.0	---	---	---	---	---	---
6	2.2	2.0	2.1	8.1	7.9	8.0	---	---	---	---	---	---
7	2.5	2.2	2.3	8.1	8.1	8.1	---	---	---	---	---	---
8	3.0	2.4	2.6	---	---	---	---	---	---	---	---	---
9	3.7	3.0	3.4	---	---	---	---	---	---	---	---	---
10	3.6	3.0	3.3	---	---	---	---	---	---	---	---	---
11	6.4	3.8	5.0	---	---	---	---	---	---	---	---	---
12	7.3	4.2	5.9	---	---	---	---	---	---	---	---	---
13	7.5	6.4	7.2	---	---	---	---	---	---	---	---	---
14	7.5	7.3	7.4	---	---	---	---	---	---	---	---	---
15	6.9	6.4	6.6	---	---	---	---	---	---	---	---	---
16	6.7	6.3	6.5	---	---	---	---	---	---	---	---	---
17	6.6	6.0	6.3	---	---	---	---	---	---	---	---	---
18	6.2	5.8	6.0	---	---	---	---	---	---	---	---	---
19	6.0	5.6	5.7	---	---	---	---	---	---	---	---	---
20	5.6	5.2	5.4	---	---	---	---	---	---	---	---	---
21	5.5	5.0	5.2	---	---	---	---	---	---	---	---	---
22	5.9	5.3	5.6	---	---	---	---	---	---	---	---	---
23	6.0	5.7	5.9	---	---	---	---	---	---	---	---	---
24	6.3	6.0	6.2	---	---	---	---	---	---	---	---	---
25	6.5	6.2	6.3	---	---	---	---	---	---	---	---	---
26	7.3	6.4	7.0	---	---	---	---	---	---	---	---	---
27	7.6	7.3	7.4	---	---	---	---	---	---	---	---	---
28	7.4	7.4	7.4	---	---	---	---	---	---	---	---	---
29	7.5	7.2	7.4	---	---	---	---	---	---	---	---	---
30	7.4	7.3	7.4	---	---	---	---	---	---	---	---	---
31	7.6	7.3	7.5	---	---	---	---	---	---	---	---	---
MONTH	7.6	.8	5.0	8.1	6.9	7.9	---	---	---	---	---	---

CUMBERLAND RIVER BASIN

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 2

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.9	3.6	4.2	8.2	7.8	8.0	---	---	---	---	---	---
2	5.1	4.6	4.8	8.5	8.1	8.2	---	---	---	---	---	---
3	5.2	4.3	4.7	8.4	8.1	8.2	---	---	---	---	---	---
4	5.0	4.4	4.7	8.3	7.8	8.0	---	---	---	---	---	---
5	5.9	5.3	5.7	8.3	7.9	8.1	---	---	---	---	---	---
6	6.2	5.7	6.0	8.5	8.2	8.4	---	---	---	---	---	---
7	6.3	5.3	5.8	8.3	8.2	8.3	---	---	---	---	---	---
8	6.3	6.0	6.1	---	---	---	---	---	---	---	---	---
9	6.4	5.8	6.2	---	---	---	---	---	---	---	---	---
10	6.8	6.5	6.6	---	---	---	---	---	---	---	---	---
11	7.3	6.6	6.9	---	---	---	---	---	---	---	---	---
12	7.5	7.3	7.4	---	---	---	---	---	---	---	---	---
13	7.6	7.4	7.5	---	---	---	---	---	---	---	---	---
14	7.7	7.4	7.6	---	---	---	---	---	---	---	---	---
15	7.6	7.2	7.4	---	---	---	---	---	---	---	---	---
16	7.3	7.0	7.1	---	---	---	---	---	---	---	---	---
17	7.0	6.7	6.9	---	---	---	---	---	---	---	---	---
18	6.7	6.2	6.6	---	---	---	---	---	---	---	---	---
19	7.4	5.8	6.7	---	---	---	---	---	---	---	---	---
20	6.6	6.1	6.4	---	---	---	---	---	---	---	---	---
21	7.0	6.3	6.7	---	---	---	---	---	---	---	---	---
22	6.8	6.4	6.6	---	---	---	---	---	---	---	---	---
23	7.1	6.0	6.6	---	---	---	---	---	---	---	---	---
24	6.7	6.5	6.6	---	---	---	---	---	---	---	---	---
25	7.3	7.2	7.3	---	---	---	---	---	---	---	---	---
26	7.4	7.1	7.3	---	---	---	---	---	---	---	---	---
27	7.5	7.3	7.4	---	---	---	---	---	---	---	---	---
28	7.5	7.3	7.4	---	---	---	---	---	---	---	---	---
29	7.5	7.3	7.4	---	---	---	---	---	---	---	---	---
30	7.5	7.3	7.4	---	---	---	---	---	---	---	---	---
31	7.9	7.3	7.6	---	---	---	---	---	---	---	---	---
MONTH	7.9	3.6	6.6	8.5	7.8	8.2	---	---	---	---	---	---

PUMP NUMBER 2

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	9.7	9.4	9.6	7.6	7.3	7.5	---	---	---
2	---	---	---	10.2	9.1	9.6	---	---	---	---	---	---
3	---	---	---	10.1	9.3	9.8	8.5	7.8	8.1	9.1	9.2	9.2
4	---	---	---	10.0	8.3	9.4	8.3	8.2	9.0	9.3	9.0	9.2
5	---	---	---	9.4	9.0	9.2	8.5	8.2	8.4	9.3	9.0	9.1
6	---	---	---	9.3	8.9	9.0	8.6	8.3	8.6	9.2	9.0	9.1
7	---	---	---	9.2	8.7	8.9	8.6	8.5	9.0	9.1	9.1	9.0
8	---	---	---	9.9	8.5	9.0	8.8	8.6	8.8	9.1	9.0	9.0
9	---	---	---	9.9	8.5	9.0	8.8	8.6	9.0	9.1	9.0	9.0
10	---	---	---	8.8	8.5	8.6	9.2	8.6	8.8	9.2	9.0	9.1
11	---	---	---	8.7	8.4	8.6	9.4	8.8	9.0	9.2	9.0	9.1
12	---	---	---	8.6	8.0	8.4	9.4	8.8	9.0	9.2	9.0	9.1
13	---	---	---	8.8	8.5	8.7	---	---	---	---	---	---
14	---	---	---	8.6	8.4	8.5	---	---	---	---	---	---
15	---	---	---	8.5	8.4	8.4	---	---	---	---	---	---
16	---	---	---	8.7	8.3	8.4	---	---	---	---	---	---
17	---	---	---	8.3	8.1	8.2	9.6	9.2	9.5	9.3	9.1	9.2
18	---	---	---	9.2	7.9	8.2	8.8	8.6	8.8	9.3	9.0	9.2
19	---	---	---	8.8	7.4	8.0	---	---	---	---	---	---
20	---	---	---	8.3	7.6	7.8	9.2	9.0	9.1	9.3	9.0	9.1
21	---	---	---	8.1	7.5	7.8	9.1	8.9	9.0	9.1	9.0	9.1
22	---	---	---	8.1	7.5	7.7	9.1	8.6	8.7	9.1	8.9	9.0
23	---	---	---	7.6	7.4	7.5	8.4	8.1	8.3	8.9	8.7	8.8
24	---	---	---	7.5	7.1	7.2	8.9	8.7	8.8	9.0	8.8	8.8
25	---	---	---	7.2	7.1	7.1	9.0	8.8	8.8	9.0	8.8	8.8
26	---	---	---	7.2	6.5	6.9	8.7	8.6	8.6	8.7	8.6	8.6
27	---	---	---	6.8	6.0	6.5	8.4	8.1	8.3	8.6	8.3	8.3
28	---	---	---	7.1	6.5	6.8	8.5	8.4	8.5	8.7	8.4	8.2
29	---	---	---	10.1	10.0	10.0	8.2	8.0	8.1	8.2	8.0	8.1
30	---	---	---	9.7	9.7	9.8	7.5	7.4	7.9	8.1	7.8	7.9
31	---	---	---	9.7	9.5	9.6	---	---	---	7.6	7.3	7.4
MONTH	---	---	---	10.1	9.5	9.8	10.2	6.0	8.2	9.6	7.3	8.6

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.--No estimated daily discharges. Water-discharge records good. Flow regulated by Martins Fork Dam (station 03400798) beginning January 1979.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	23	170	26	130	245	7.8	73	53	13	12	12
2	62	24	105	26	132	284	7.8	120	72	13	12	12
3	45	24	91	26	152	283	7.8	151	107	13	12	12
4	26	40	91	19	167	277	8.7	151	107	13	13	12
5	26	61	91	8.3	169	274	9.6	130	64	13	13	12
6	26	61	90	11	188	271	10	117	11	13	13	12
7	27	60	89	13	220	271	10	117	11	13	14	12
8	27	59	89	13	217	280	10	116	12	13	13	12
9	27	58	77	223	212	288	11	116	14	13	13	12
10	28	39	63	337	139	318	11	244	17	12	13	12
11	28	23	64	329	78	335	11	348	17	12	13	12
12	28	23	145	326	78	332	11	373	27	12	13	12
13	28	23	200	289	77	330	12	395	34	12	13	13
14	49	41	197	233	77	325	12	413	25	12	13	13
15	60	60	194	305	117	320	12	519	24	12	13	13
16	60	60	129	387	307	219	12	584	37	12	13	13
17	41	50	82	445	410	153	12	572	37	12	13	13
18	22	32	82	479	412	153	12	560	37	12	14	13
19	22	32	81	468	407	151	13	564	36	12	13	13
20	23	32	81	458	401	133	15	558	36	12	13	13
21	48	32	60	447	393	136	17	547	32	12	13	13
22	68	30	29	435	382	170	16	458	26	12	12	13
23	69	37	26	421	274	171	17	325	20	12	12	13
24	67	46	26	324	192	171	19	223	13	12	12	12
25	66	46	26	219	188	169	19	189	13	12	12	12
26	66	46	26	183	187	167	19	121	13	12	12	13
27	56	45	26	140	183	119	19	55	13	12	12	12
28	31	151	26	84	188	80	52	54	13	11	12	13
29	21	246	26	84	---	68	75	54	13	11	12	13
30	21	248	26	100	---	59	73	54	13	11	12	13
31	21	---	26	130	---	31	---	53	---	12	12	---
TOTAL	1251	1752	2534	6988.3	6077	6583	541.7	8354	947	378	392	375
MEAN	40.4	58.4	81.7	225	217	212	18.1	269	31.6	12.2	12.6	12.5
MAX	69	248	200	479	412	335	75	584	107	13	14	13
MIN	21	23	26	8.3	77	31	7.8	53	11	11	12	12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1995, BY WATER YEAR (WY)

MEAN	56.2	104	156	177	215	188	120	130	65.4	26.0	25.2	28.9
MAX	181	217	452	357	481	360	383	322	267	75.3	61.6	117
(WY)	1990	1987	1992	1982	1994	1994	1994	1983	1989	1990	1994	1989
MIN	20.2	28.9	16.4	10.1	81.6	33.5	12.4	36.7	12.5	9.34	9.43	9.49
(WY)	1981	1981	1981	1981	1988	1988	1986	1987	1988	1988	1988	1984

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1980 - 1995

ANNUAL TOTAL	57246.5	36173.0		
ANNUAL MEAN	157	99.1		
HIGHEST ANNUAL MEAN			107	1994
LOWEST ANNUAL MEAN			58.0	1988
HIGHEST DAILY MEAN	1280	Feb 12	584	May 16
LOWEST DAILY MEAN	5.5	Jun 1	7.8	Apr 1
ANNUAL SEVEN-DAY MINIMUM	9.8	Jul 7	8.8	Apr 1
INSTANTANEOUS PEAK FLOW			597	May 18
INSTANTANEOUS PEAK STAGE			11.43	May 18
INSTANTANEOUS LOW FLOW				.10
10 PERCENT EXCEEDS	463		319	294
50 PERCENT EXCEEDS	60		32	48
90 PERCENT EXCEEDS	15		12	11

CUMBERLAND RIVER BASIN

03400800 MARTINS FORK NEAR SMITH, KY--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1971 to current year.

pH: December 1979 to current year.

WATER TEMPERATURE: October 1971 to current year.

DISSOLVED OXYGEN: December 1979 to current year.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

pH: Maximum, 8.2 units, July 2, 1980; minimum, 6.2 units, Jan. 12, 1980, May 17, 1984, July 6, 1989.

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

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 195 microsiemens, Nov. 10; minimum, 84 microsiemens, Jan. 19-20.

pH: Maximum, 7.3 units, Oct. 12-13; minimum, 6.5 units, Apr. 27-28.

WATER TEMPERATURE: Maximum, 28.8°C, Aug. 24; minimum, 3.3°C, Feb. 8.

DISSOLVED OXYGEN: Maximum, 12.6 mg/L, Feb. 25; minimum, 5.8 mg/L, Sept. 24-25.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	176	167	171	165	154	159	154	138	149	138	134	135
2	176	172	175	161	151	157	146	139	143	134	130	134
3	177	173	175	164	153	160	139	139	139	136	130	133
4	177	173	174	169	160	163	133	124	127	136	132	136
5	174	173	173	169	159	165	137	133	134	136	132	135
6	178	170	174	172	167	170	137	137	137	165	136	142
7	179	174	176	177	165	172	141	133	137	149	137	143
8	182	175	177	190	178	184	141	137	140	137	133	135
9	180	176	177	193	187	191	145	137	141	133	114	124
10	180	172	175	195	191	194	145	137	141	133	114	125
11	177	173	174	193	185	189	145	137	144	142	114	133
12	178	173	174	187	173	178	145	137	139	146	130	143
13	178	174	176	178	171	175	141	126	139	162	115	132
14	179	174	177	171	159	163	126	114	119	185	138	169
15	179	175	177	167	161	163	129	122	127	162	123	136
16	180	175	177	165	160	162	137	129	133	146	116	132
17	180	176	177	164	161	163	133	129	132	143	128	133
18	181	176	178	169	160	165	133	126	130	147	131	139
19	178	177	177	168	162	165	130	126	129	143	84	121
20	182	178	179	170	164	167	134	130	134	96	84	93
21	179	178	178	179	166	174	138	134	135	101	96	98
22	183	175	178	180	176	178	138	134	136	109	97	104
23	180	176	179	180	173	176	138	134	135	113	109	112
24	176	172	176	181	173	176	134	130	134	113	109	112
25	191	177	185	182	174	179	134	130	134	113	109	111
26	194	186	190	182	179	179	134	130	134	114	110	113
27	186	154	171	180	175	179	134	130	134	114	110	110
28	160	150	154	180	176	179	134	134	134	114	110	113
29	162	152	156	181	161	173	134	134	134	118	114	115
30	161	151	156	161	153	155	138	134	137	126	114	120
31	164	154	160	---	---	---	138	134	135	118	111	114
MONTH	194	150	174	195	151	172	154	114	135	185	84	126

CUMBERLAND RIVER BASIN
03400800 MARTINS FORK NEAR SMITH, KY--Continued

PH, WATER, WHOLE FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

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

CUMBERLAND RIVER BASIN

03401000 CUMBERLAND RIVER NEAR HARLAN, KY

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

DRAINAGE AREA.--374 mi².

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

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

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

REMARKS.--Estimated daily discharges: Feb. 9-10, 14, 28, Mar. 3-6, Sept. 26-30. Records good except for periods of estimated record, which are poor. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	97	438	137	843	2070	360	470	362	253	97	44
2	121	101	279	142	808	1500	340	914	530	199	140	47
3	123	92	236	129	838	1190	325	845	528	170	113	42
4	92	84	234	121	2670	1020	315	744	419	159	82	40
5	83	105	299	85	1940	950	302	711	390	148	74	40
6	80	121	314	338	1270	1480	287	611	290	141	72	39
7	79	120	296	2580	1060	1830	283	545	270	136	79	54
8	77	115	278	1200	903	3150	277	503	251	127	91	51
9	89	110	262	797	760	2990	269	607	243	120	83	41
10	95	124	357	858	650	2130	257	1530	242	132	77	39
11	87	104	1010	771	553	2120	241	2270	263	136	81	40
12	83	88	650	954	478	2430	304	1570	530	113	92	51
13	91	83	604	940	429	2240	346	2170	494	102	83	50
14	100	81	510	933	390	1860	294	8340	347	112	70	70
15	130	104	456	7160	4000	1500	277	4910	272	101	65	66
16	129	117	406	6530	6270	1200	271	2870	259	96	58	55
17	119	122	319	2770	3660	926	272	2170	240	104	55	101
18	85	101	303	1880	2400	814	279	1840	224	118	55	94
19	90	90	282	1490	1800	732	262	5940	212	104	96	68
20	110	90	263	1480	1480	691	302	3060	238	87	95	58
21	105	87	252	1250	1330	1120	477	2050	314	82	74	65
22	133	88	201	1090	1140	1050	531	1560	283	81	64	136
23	170	86	186	1010	1000	977	504	1160	254	98	58	177
24	180	90	175	875	809	858	1130	894	272	111	53	119
25	151	97	167	664	737	753	1010	742	246	99	49	90
26	136	96	161	586	699	692	802	665	212	124	48	88
27	126	166	153	534	713	657	641	493	188	123	47	110
28	107	1080	147	571	2490	537	540	466	168	112	48	96
29	83	814	144	976	---	486	504	428	156	86	46	86
30	77	543	141	1050	---	446	476	400	198	78	45	75
31	79	---	136	964	---	420	---	369	---	72	43	---
TOTAL	3323	5196	9659	40865	42120	40819	12478	51847	8895	3724	2233	2132
MEAN	107	173	312	1318	1504	1317	416	1672	296	120	72.0	71.1
MAX	180	1080	1010	7160	6270	3150	1130	8340	530	253	140	177
MIN	77	81	136	85	390	420	241	369	156	72	43	39
CFSM	.29	.46	.83	3.52	4.02	3.52	1.11	4.47	.79	.32	.19	.19
IN.	.33	.52	.96	4.06	4.19	4.06	1.24	5.16	.88	.37	.22	.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

MEAN	180	453	914	1179	1347	1453	1034	733	383	311	217	127
MAX	1129	2004	2704	2767	3259	4148	2771	2003	1789	1414	1202	864
(WY)	1990	1978	1992	1974	1994	1963	1977	1984	1989	1941	1942	1989
MIN	9.00	25.8	43.6	63.5	105	334	211	119	76.0	21.4	40.0	14.3
(WY)	1954	1954	1966	1981	1941	1988	1986	1941	1948	1944	1951	1953

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1940 - 1995

ANNUAL TOTAL	370411	223291								691		
ANNUAL MEAN	1015	612								1130		1994
HIGHEST ANNUAL MEAN										293		1941
LOWEST ANNUAL MEAN												
HIGHEST DAILY MEAN	18700	Feb 11				8340	May 14			33900	Apr 4	1977
LOWEST DAILY MEAN	61	Sep 30				39	Sep 6			5.0	Oct 9	1953
ANNUAL SEVEN-DAY MINIMUM	74	Sep 24				42	Aug 31			6.7	Oct 7	1953
INSTANTANEOUS PEAK FLOW						13100	May 14			64500	Apr 5	1977
INSTANTANEOUS PEAK STAGE						13.12	May 14			30.20	Apr 5	1977
INSTANTANEOUS LOW FLOW										3.0	Oct 9	1953
ANNUAL RUNOFF (CFSM)	2.71					1.64				1.85		
ANNUAL RUNOFF (INCHES)	36.84					22.21				25.11		
10 PERCENT EXCEEDS	2440					1500				1550		
50 PERCENT EXCEEDS	300					254				327		
90 PERCENT EXCEEDS	94					73				53		

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: Feb. 4-14. Records good except for period of estimated record, which is poor. Occasional regulation from Fern Lake. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	29	32	21	83	282	59	75	53	47	44	6.4
2	8.2	20	26	23	99	192	56	148	149	23	35	9.6
3	8.4	16	22	20	117	161	53	102	83	19	11	6.8
4	8.5	15	42	19	200	134	51	89	55	17	8.7	6.0
5	7.8	14	99	15	150	154	47	90	45	16	8.2	9.5
6	7.5	14	82	145	120	353	46	71	38	15	8.6	6.5
7	7.9	16	58	434	90	364	44	62	86	15	11	5.9
8	8.7	15	45	193	76	1420	42	55	61	13	12	5.5
9	16	13	38	127	66	632	41	259	45	12	11	5.5
10	16	14	199	96	60	355	38	427	35	17	44	5.5
11	11	15	308	120	54	299	34	360	51	22	17	6.0
12	9.6	14	136	293	50	247	60	204	104	13	11	12
13	21	14	91	199	46	202	48	224	66	12	8.6	7.7
14	16	15	69	240	42	166	39	1370	47	11	7.9	11
15	12	14	56	1060	1150	140	36	629	36	10	7.0	7.9
16	12	15	51	1030	1210	122	34	266	32	9.7	6.5	7.7
17	11	14	57	371	563	107	42	179	27	10	6.0	41
18	11	13	49	213	307	94	43	136	24	15	5.5	14
19	24	13	42	178	212	86	36	166	24	9.6	5.5	8.2
20	24	13	37	196	166	100	39	108	25	8.7	5.5	7.2
21	17	17	35	147	150	272	96	87	24	8.4	5.5	15
22	15	17	33	123	121	174	69	73	21	8.3	5.3	49
23	18	15	33	107	111	148	70	64	33	8.3	5.3	25
24	17	13	31	92	102	121	126	56	28	8.4	5.3	13
25	17	13	28	79	90	103	104	50	30	8.7	5.3	11
26	14	14	26	74	84	92	88	45	38	10	5.3	22
27	13	74	24	68	93	95	77	42	23	8.7	5.1	16
28	13	366	23	88	438	81	67	64	19	7.9	5.3	10
29	13	80	22	100	---	73	59	48	18	6.8	5.5	8.6
30	14	45	21	93	---	66	65	41	22	7.6	5.2	7.6
31	15	---	23	87	---	62	---	33	---	17	5.1	---
TOTAL	414.9	960	1838	6051	6050	6897	1709	5623	1342	415.1	332.2	367.1
MEAN	13.4	32.0	59.3	195	216	222	57.0	181	44.7	13.4	10.7	12.2
MAX	24	366	308	1060	1210	1420	126	1370	149	47	44	49
MIN	7.5	13	21	15	42	62	34	33	18	6.8	5.1	5.5
CFSM	.22	.53	.98	3.22	3.57	3.67	.94	2.99	.74	.22	.18	.20
IN.	.25	.59	1.13	3.71	3.71	4.23	1.05	3.45	.82	.25	.20	.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

MEAN	25.1	77.2	167	210	237	255	176	119	64.8	53.0	35.6	20.0
MAX	155	416	609	551	677	610	551	539	298	345	197	109
(WY)	1978	1974	1991	1974	1991	1975	1977	1984	1989	1967	1942	1982
MIN	3.05	5.35	7.34	14.4	14.9	47.6	34.9	17.2	13.8	4.26	6.00	3.02
(WY)	1954	1941	1966	1981	1941	1988	1986	1941	1988	1944	1951	1954

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1941 - 1995

ANNUAL TOTAL	69051.1			31999.3			119		
ANNUAL MEAN	189			87.7			219		
HIGHEST ANNUAL MEAN							1991		
LOWEST ANNUAL MEAN							49.5		
HIGHEST DAILY MEAN	5000	Feb 11		1420	Mar 8		7000	Apr 4	1977
LOWEST DAILY MEAN	7.5	Oct 6		5.1	Aug 27		1.2	Oct 7	1952
ANNUAL SEVEN-DAY MINIMUM	8.1	Oct 1		5.3	Aug 25		1.6	Sep 17	1955
INSTANTANEOUS PEAK FLOW				2650			11700		
INSTANTANEOUS PEAK STAGE				11.87			23.35		
INSTANTANEOUS LOW FLOW							.00		
ANNUAL RUNOFF (CFSM)	3.12			1.45			1.97		
ANNUAL RUNOFF (INCHES)	42.39			19.64			26.78		
10 PERCENT EXCEEDS	379			197			254		
50 PERCENT EXCEEDS	42			36			45		
90 PERCENT EXCEEDS	14			7.9			7.6		