



Water Resources Data Kentucky Water Year 1994



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT KY-94-1
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CUMBERLAND RIVER BASIN

03400800 MARTINS FORK NEAR SMITH, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.4	12.2	12.3	11.8	11.0	11.2	12.5	11.3	11.9	10.9	10.2	10.6
2	12.4	11.9	12.1	11.7	10.6	11.1	12.5	11.5	11.9	10.5	9.7	10.1
3	12.8	11.9	12.2	11.7	10.5	11.2	12.4	11.1	11.7	10.5	9.8	10.0
4	12.8	11.9	12.2	11.4	10.8	11.1	12.2	11.4	11.7	10.5	9.8	10.0
5	12.5	11.8	12.0	11.6	10.9	11.1	12.2	11.2	11.6	10.7	10.0	10.1
6	12.6	11.8	12.0	11.8	10.7	11.2	12.0	10.9	11.3	10.4	9.7	10.0
7	12.7	11.8	12.1	11.7	10.5	11.0	12.0	11.2	11.6	9.9	9.7	9.8
8	12.5	11.5	11.9	---	---	---	11.7	11.6	11.7	10.3	9.6	9.8
9	12.0	11.2	11.5	---	---	---	---	---	---	10.0	8.7	9.6
10	11.8	11.4	11.5	11.4	10.7	11.1	11.5	11.4	11.5	9.6	9.3	9.5
11	12.3	11.3	11.6	11.6	10.9	11.1	12.0	11.1	11.4	9.8	9.4	9.7
12	12.2	11.9	12.1	11.6	10.9	11.1	11.9	11.0	11.3	9.9	8.8	9.7
13	12.8	11.5	12.1	11.7	10.8	11.1	11.7	10.7	10.9	10.4	9.6	9.8
14	12.8	11.5	12.1	11.6	10.7	11.0	10.9	8.1	10.6	9.8	9.6	9.7
15	12.0	11.5	11.7	11.6	10.5	10.9	11.0	10.7	10.8	9.9	9.6	9.7
16	12.1	11.3	11.7	11.4	10.6	10.9	11.6	10.6	11.1	10.1	9.4	9.7
17	11.9	11.1	11.6	11.5	10.8	11.1	11.5	10.3	11.0	10.1	9.5	9.8
18	12.5	11.6	11.8	10.8	10.6	10.7	11.4	10.2	10.9	11.0	9.0	10.1
19	12.2	11.2	11.8	11.3	10.8	10.9	11.3	10.4	10.7	10.9	10.0	10.6
20	12.2	11.8	12.0	10.9	10.5	10.8	11.3	10.5	10.7	10.6	10.1	10.3
21	12.0	11.8	11.9	10.9	10.2	10.7	11.4	10.2	10.7	10.4	9.5	10.2
22	11.9	11.5	11.7	11.8	10.6	11.3	11.1	10.0	10.5	10.2	9.1	9.6
23	11.6	10.4	11.2	12.5	11.0	11.7	11.1	10.1	10.4	10.0	9.0	9.2
24	11.4	11.1	11.2	11.7	11.2	11.4	10.7	9.7	10.2	9.4	9.1	9.2
25	11.5	10.4	11.1	11.9	11.2	11.5	11.1	9.8	10.2	9.1	9.0	9.1
26	11.5	10.9	11.4	12.0	11.1	11.4	10.9	9.8	10.3	9.1	8.9	9.0
27	11.6	10.9	11.3	11.2	11.1	11.1	11.1	10.0	10.3	9.4	8.9	9.0
28	11.5	10.9	11.2	12.1	10.7	11.2	11.3	10.2	10.8	9.4	8.5	9.1
29	---	---	---	12.4	11.4	11.7	11.0	10.2	10.6	9.3	8.9	9.0
30	---	---	---	12.5	11.6	12.0	11.0	10.2	10.4	8.9	8.9	8.9
31	---	---	---	12.2	11.9	12.1	---	---	---	9.7	8.0	9.0
MONTH	12.8	10.4	11.8	---	---	---	---	---	---	11.0	8.0	9.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.9	7.8	8.1	8.2	4.7	7.8	7.1	6.5	6.8	7.8	7.5	7.7
2	8.9	7.8	8.4	8.4	7.7	8.0	6.8	6.4	6.6	7.9	7.6	7.7
3	8.9	8.1	8.6	8.4	7.9	8.2	7.0	6.3	6.5	8.0	7.6	7.8
4	9.0	8.2	8.6	8.5	8.0	8.2	6.8	6.2	6.5	8.0	7.7	7.8
5	9.0	8.2	8.5	8.3	7.7	8.1	7.0	6.0	6.5	8.0	7.7	7.8
6	8.4	8.0	8.3	8.1	7.5	7.8	6.3	5.4	5.9	8.1	7.7	7.8
7	8.4	7.8	8.1	7.9	6.9	7.4	6.1	5.3	5.6	---	---	---
8	8.2	7.8	8.0	6.9	6.5	6.8	5.9	5.1	5.4	---	---	---
9	8.3	6.7	8.0	7.3	6.6	6.9	5.8	4.8	5.3	---	---	---
10	8.6	7.9	8.2	7.2	6.6	6.9	5.4	4.6	4.9	---	---	---
11	8.6	8.2	8.4	7.2	6.5	6.7	5.5	4.7	4.9	8.6	8.5	8.5
12	8.4	8.0	8.2	7.1	6.7	6.9	7.2	4.7	5.9	9.1	8.4	8.8
13	8.3	7.8	8.1	7.4	6.7	7.0	7.1	6.4	6.7	8.6	7.3	8.0
14	8.3	7.7	7.9	7.8	6.9	7.3	7.0	6.4	6.6	8.3	7.1	7.7
15	7.8	7.3	7.6	7.8	7.1	7.4	6.9	6.4	6.6	8.2	7.1	7.5
16	7.5	7.1	7.3	7.7	7.1	7.4	6.7	5.8	6.3	8.2	7.1	7.5
17	7.6	4.9	7.2	7.9	7.2	7.5	6.7	5.8	6.3	8.1	7.0	7.4
18	7.6	5.8	7.3	7.9	7.2	7.5	6.9	6.7	6.9	8.0	7.1	7.5
19	7.5	7.1	7.3	8.0	7.1	7.5	7.1	6.7	6.9	8.0	7.2	7.6
20	8.0	7.0	7.4	8.5	7.3	7.8	7.0	6.8	6.8	7.8	7.5	7.6
21	7.8	7.3	7.6	8.2	7.1	7.5	7.1	6.7	6.9	7.8	7.3	7.6
22	7.8	7.2	7.5	7.5	6.9	7.2	7.8	6.9	7.3	7.8	7.5	7.6
23	7.8	7.1	7.5	7.4	6.8	7.1	8.3	7.8	7.9	---	---	---
24	7.9	7.3	7.6	7.6	6.7	7.1	8.3	7.8	8.1	---	---	---
25	8.1	7.4	7.8	7.6	6.7	7.0	8.1	7.9	8.0	---	---	---
26	8.1	7.5	7.7	7.5	6.7	7.0	8.1	7.6	7.9	7.5	7.0	7.2
27	8.3	7.6	7.9	7.1	6.6	6.8	8.2	7.3	7.7	7.6	7.0	7.3
28	8.4	7.7	8.0	7.3	6.6	6.8	8.4	8.2	8.3	7.6	7.1	7.3
29	7.9	7.7	7.8	7.4	6.5	6.8	8.5	8.2	8.3	7.5	7.1	7.2
30	8.2	7.2	7.9	7.5	6.4	6.8	8.2	7.8	8.0	8.1	7.1	7.7
31	---	---	---	7.4	6.5	6.8	7.9	7.5	7.7	---	---	---
MONTH	9.0	4.9	7.9	8.5	4.7	7.3	8.5	4.6	6.8	---	---	---

CUMBERLAND RIVER BASIN

03401000 CUMBERLAND RIVER NEAR HARLAN, KY

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

DRAINAGE AREA.--374 mi².

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

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

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

REMARKS.--Estimated daily discharges: Jan. 16-23. Records good except for period of estimated record, which is 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 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	191	718	833	1290	1490	2440	1120	227	525	194	223
2	73	151	573	762	1090	2740	2110	1040	207	285	179	193
3	90	140	514	893	981	3390	1850	1080	239	242	175	183
4	82	147	4380	2670	755	2580	1650	1000	200	215	151	181
5	62	179	10900	1790	705	2420	1460	738	199	195	300	178
6	52	192	3440	1440	674	2050	1490	655	201	181	265	191
7	43	190	2150	3550	600	1690	1930	755	183	160	200	156
8	42	161	1650	5260	568	1890	1810	1800	203	150	166	126
9	53	155	1370	2470	7680	3510	1460	1540	202	160	154	119
10	112	155	1430	1770	6370	10100	1750	1270	316	153	139	105
11	88	164	1350	1450	18700	3720	2870	959	288	134	127	99
12	140	162	1200	2210	8280	2520	2450	700	291	129	127	96
13	189	124	1090	2150	4110	2030	12700	529	272	123	109	86
14	162	120	873	1740	3110	1830	3940	468	248	180	117	89
15	144	290	869	1320	2330	1590	3190	559	174	194	176	95
16	75	365	879	1050	1790	1400	5020	1020	195	411	239	92
17	65	543	891	900	1580	1220	3140	983	401	1230	491	105
18	78	842	778	790	1420	1010	2280	685	317	599	772	140
19	81	584	711	680	1310	851	1850	367	198	564	481	118
20	208	487	641	600	1200	778	1610	353	180	604	299	111
21	211	394	634	550	1860	794	1480	297	182	434	1770	108
22	185	341	541	490	2400	860	1310	293	207	348	1610	101
23	155	202	494	450	8930	755	1090	263	160	274	1080	79
24	129	293	441	593	4970	723	952	257	161	218	836	75
25	117	221	420	1820	2960	712	895	298	206	182	653	83
26	110	215	389	4030	2220	660	704	403	181	174	473	90
27	80	2580	363	2950	1790	7650	642	493	1230	239	286	78
28	69	1880	469	3670	1570	11300	745	342	908	274	250	69
29	69	953	1140	2840	---	5090	715	297	692	320	247	64
30	151	899	1250	1980	---	3130	943	277	769	272	272	61
31	179	---	1020	1560	---	2720	---	275	---	240	256	---
TOTAL	3345	13320	43568	55261	91243	83203	66476	21116	9437	9409	12594	3494
MEAN	108	444	1405	1783	3259	2684	2216	681	315	304	406	116
MAX	211	2580	10900	5260	18700	11300	12700	1800	1230	1230	1770	223
MIN	42	120	363	450	568	660	642	257	160	123	109	61
CFSM	.29	1.19	3.76	4.77	8.71	7.18	5.92	1.82	.84	.81	1.09	.31
IN.	.33	1.32	4.33	5.50	9.08	8.28	6.61	2.10	.94	.94	1.25	.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1994, BY WATER YEAR (WY)

	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954
MEAN	181	458	925	1177	1344	1455	1046	716	385	315	220	128			
MAX	1129	2004	2704	2767	3259	4148	2771	2003	1789	1414	1202	864			
(WY)	1990	1978	1992	1974	1994	1963	1977	1984	1989	1941	1942	1989			
MIN	9.00	25.8	43.6	63.5	105	334	211	119	76.0	21.4	40.0	14.3			
(WY)	1954	1954	1966	1981	1941	1988	1986	1941	1948	1944	1951	1953			

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1940 - 1994	
ANNUAL TOTAL	256514		412466			
ANNUAL MEAN	703		1130		693	
HIGHEST ANNUAL MEAN					1130	
LOWEST ANNUAL MEAN					293	
HIGHEST DAILY MEAN	10900		18700		33900	
LOWEST DAILY MEAN	41		42		5.0	
ANNUAL SEVEN-DAY MINIMUM	45		61		6.7	
INSTANTANEOUS PEAK FLOW			27900		64500	
INSTANTANEOUS PEAK STAGE			20.61		30.20	
INSTANTANEOUS LOW FLOW					3.0	
ANNUAL RUNOFF (CFSM)	1.88		3.02		1.85	
ANNUAL RUNOFF (INCHES)	25.51		41.03		25.16	
10 PERCENT EXCEEDS	1510		2580		1560	
50 PERCENT EXCEEDS	370		494		330	
90 PERCENT EXCEEDS	67		110		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: Jan. 16-24, Feb. 9-15, Apr. 13, and 16-18. Records good except for periods of estimate record, which are 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 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	30	34	115	147	172	245	195	37	32	15	86
2	8.3	27	30	106	122	1150	199	138	40	31	44	46
3	12	24	28	182	109	942	179	129	33	26	35	33
4	8.6	27	1550	651	96	440	159	126	29	24	28	27
5	7.4	35	2130	308	99	310	136	105	26	19	121	25
6	7.7	32	433	208	89	222	307	91	38	17	47	25
7	7.9	28	186	945	77	185	374	123	35	16	31	21
8	8.0	24	120	917	74	388	267	374	76	16	24	18
9	28	21	89	340	1800	681	191	179	46	17	20	16
10	46	20	276	213	1600	1310	279	130	130	16	18	14
11	16	19	212	169	5000	472	1060	102	91	29	17	14
12	24	18	140	573	1100	277	956	86	58	20	16	14
13	14	17	111	375	560	205	2920	73	44	17	16	14
14	12	17	96	250	310	175	603	65	37	20	15	12
15	12	112	89	154	230	141	1320	80	39	18	18	12
16	12	69	75	110	173	118	3200	96	45	31	16	12
17	13	83	64	100	143	103	900	60	40	29	19	42
18	20	72	59	94	125	99	350	52	35	30	15	34
19	16	46	55	87	111	87	226	46	27	188	18	17
20	16	40	57	82	102	78	171	44	24	36	21	14
21	21	31	108	75	333	93	137	42	30	26	394	12
22	28	27	75	69	384	87	119	39	29	42	98	12
23	20	24	69	74	3040	73	103	35	24	35	48	11
24	17	23	60	110	875	71	90	32	35	24	31	12
25	15	21	57	595	366	76	80	33	35	19	25	12
26	14	27	50	1110	235	69	72	258	40	19	29	11
27	13	118	47	607	173	2320	102	186	90	23	22	9.9
28	12	100	123	1170	145	3010	78	87	41	23	18	9.3
29	13	62	334	495	---	862	112	61	42	19	45	9.1
30	26	44	209	281	---	400	224	49	59	17	33	8.9
31	29	---	147	194	---	336	---	41	---	15	44	---
TOTAL	505.5	1238	7113	10759	17618	14952	15159	3157	1355	894	1341	603.2
MEAN	16.3	41.3	229	347	629	482	505	102	45.2	28.8	43.3	20.1
MAX	46	118	2130	1170	5000	3010	3200	374	130	188	394	86
MIN	7.4	17	28	69	74	69	72	32	24	15	15	8.9
CFSM	.27	.68	3.79	5.73	10.4	7.96	8.34	1.68	.75	.48	.71	.33
IN.	.31	.76	4.37	6.60	10.82	9.18	9.31	1.94	.83	.55	.82	.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1994, BY WATER YEAR (WY)

	1941	1942	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
MEAN	25.3	78.1	169	210	238	255	178	117	65.2	53.7	36.1	20.1																																										
MAX	155	416	609	551	677	610	551	539	298	345	197	109																																										
(WY)	1978	1974	1991	1974	1991	1975	1977	1984	1989	1967	1942	1982																																										
MIN	3.05	5.35	7.34	14.4	14.9	47.6	34.9	17.2	13.8	4.26	6.00	3.02																																										
(WY)	1954	1941	1966	1981	1941	1988	1986	1941	1988	1944	1951	1954																																										

SUMMARY STATISTICS FOR 1993 CALENDAR YEAR FOR 1994 WATER YEAR WATER YEARS 1941 - 1994

ANNUAL TOTAL	39752.6	74694.7	
ANNUAL MEAN	109	205	120
HIGHEST ANNUAL MEAN			219
LOWEST ANNUAL MEAN			49.5
HIGHEST DAILY MEAN	3620	Mar 23	7000
LOWEST DAILY MEAN	6.9	Aug 1	1.2
ANNUAL SEVEN-DAY MINIMUM	8.0	Sep 18	1.6
INSTANTANEOUS PEAK FLOW			7420
INSTANTANEOUS PEAK STAGE	19.40	Feb 11	11700
INSTANTANEOUS LOW FLOW			23.35
ANNUAL RUNOFF (CFSM)	1.80		3.38
ANNUAL RUNOFF (INCHES)	24.40		45.85
10 PERCENT EXCEEDS	208		396
50 PERCENT EXCEEDS	39		57
90 PERCENT EXCEEDS	9.9		15
			7.6

CUMBERLAND RIVER BASIN

03402900 CUMBERLAND RIVER AT PINE ST BRIDGE AT PINEVILLE, KY

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

DRAINAGE AREA.--770 mi².

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

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

REMARKS.--Estimated daily discharges: Jan. 16-22. Records good except for period of estimated record, which is poor. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979. Specific conductance and temperature made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142	360	1010	1560	2250	2320	4390	2320	422	713	318	499
2	125	360	837	1400	1860	5500	3690	2080	373	530	336	381
3	123	313	740	1380	1660	8690	3180	1880	350	378	351	315
4	151	292	5590	5510	1400	5700	2810	1770	367	326	282	286
5	148	314	22300	4190	1260	4320	2400	1460	334	298	480	273
6	132	352	10900	2830	1220	3680	2710	1230	338	273	566	288
7	114	386	4110	7030	1070	3010	3680	1260	374	252	397	285
8	102	325	2610	12800	1000	3680	3610	3370	489	225	319	244
9	107	284	1990	5680	13900	7100	2850	2950	423	223	278	205
10	218	275	2330	3400	17500	16200	2980	2140	943	243	247	186
11	213	266	2440	2580	28100	9630	6860	1660	1010	253	224	177
12	217	264	2030	4230	30100	4940	6470	1280	602	258	219	170
13	250	270	1740	4510	11900	3620	18100	1050	517	218	215	166
14	273	237	1480	3430	6110	3110	11400	886	462	219	193	156
15	239	606	1360	2470	4220	2590	7320	901	438	326	231	150
16	208	892	1280	2000	3110	2200	15300	1600	442	616	331	147
17	170	813	1240	1700	2560	1940	7540	1350	378	840	496	181
18	164	1280	1160	3600	2230	1690	4730	1180	591	977	721	301
19	228	1000	1040	4000	1990	1450	3540	808	417	715	684	234
20	234	796	979	3300	1800	1290	2870	643	335	726	528	194
21	311	663	1160	2950	2760	1300	2370	592	327	668	2220	177
22	369	561	1060	2600	4420	1560	2090	531	348	632	2680	174
23	312	476	943	2450	15500	1380	1740	503	326	522	1370	167
24	265	355	840	2300	14300	1300	1490	466	296	389	957	158
25	223	426	780	4260	6230	1260	1360	445	323	317	782	140
26	205	363	727	9670	4100	1170	1170	777	339	328	635	147
27	188	1750	668	7120	3060	11400	1120	1160	703	324	495	154
28	166	3720	815	8030	2550	26200	1210	761	1310	370	350	145
29	146	1590	2490	6390	---	15800	1360	596	783	386	346	124
30	175	1190	2760	3990	---	7010	2770	528	871	408	402	119
31	291	---	1970	2880	---	5150	---	477	---	347	415	---
TOTAL	6209	20779	81379	130240	188160	166390	133110	38654	15231	13300	18068	6343
MEAN	200	693	2625	4201	6720	5367	4437	1247	508	429	583	211
MAX	369	3720	22300	12800	30100	26200	18100	3370	1310	977	2680	499
MIN	102	237	668	1380	1000	1170	1120	445	296	218	193	119
CFSM	.26	.90	3.41	5.46	8.73	6.97	5.76	1.62	.66	.56	.76	.27
IN.	.30	1.00	3.93	6.29	9.09	8.04	6.43	1.87	.74	.64	.87	.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1994, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	224	644	3442	2518	3182	4093	2668	1003	768	407	508	240
MAX	330	715	5204	4201	6720	5367	4437	1247	1418	617	583	347
(WY)	1993	1993	1992	1994	1994	1994	1994	1994	1992	1992	1994	1992
MIN	142	524	2498	1540	1020	2139	1132	796	378	176	389	162
(WY)	1992	1992	1993	1993	1992	1992	1992	1993	1993	1993	1993	1993

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1992 - 1994	
ANNUAL TOTAL	488236		817863			
ANNUAL MEAN	1338		2241		1636	
HIGHEST ANNUAL MEAN					2241	
LOWEST ANNUAL MEAN					1330	
HIGHEST DAILY MEAN	24700	Mar 24	30100	Feb 12	30800	Dec 3 1991
LOWEST DAILY MEAN	93	Sep 23	102	Oct 8	91	Oct 14 1991
ANNUAL SEVEN-DAY MINIMUM	108	Sep 19	125	Oct 3	100	Nov 2 1991
INSTANTANEOUS PEAK FLOW			38700	Feb 11	38700	Feb 11 1994
INSTANTANEOUS PEAK STAGE			43.67	Feb 11	43.67	Feb 11 1994
INSTANTANEOUS LOW FLOW					87	Oct 12 1991
ANNUAL RUNOFF (CFSM)	1.74		2.91		2.13	
ANNUAL RUNOFF (INCHES)	23.59		39.51		28.88	
10 PERCENT EXCEEDS	2910		5500		3440	
50 PERCENT EXCEEDS	636		815		739	
90 PERCENT EXCEEDS	143		205		163	

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: Jan. 17-25. Records good except for period of estimated record, which is fair. 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 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	386	499	2220	3890	4960	4420	19500	4870	784	1230	687	1520
2	306	653	1680	3210	3950	6320	11000	4170	715	1100	642	1260
3	255	672	1360	2920	3370	15600	6630	3550	657	868	670	843
4	227	623	3920	5750	2960	15700	5570	3320	596	679	607	628
5	226	552	21100	9310	2650	12200	4810	3060	561	578	669	517
6	231	531	25800	7600	2490	8340	5030	2610	545	505	1010	475
7	225	533	21200	8360	2310	6390	6200	2320	776	453	1010	468
8	205	544	17400	17600	2050	6820	6520	4040	1930	430	754	449
9	186	527	7890	17900	8710	11000	6040	6550	1340	495	586	414
10	185	460	4190	15100	21500	17000	5220	5150	1190	472	489	357
11	236	419	5060	7990	27600	18600	10400	3600	2600	501	426	315
12	324	397	4510	6460	35800	18200	17100	2810	2140	466	378	288
13	329	380	3720	8660	38500	13500	17200	2270	1270	490	347	265
14	325	385	3230	8010	34200	7010	18100	1850	1030	488	335	252
15	334	665	2860	6130	27500	5220	19200	1630	866	604	313	244
16	334	1780	2670	4330	18600	4370	25500	1850	840	1790	301	229
17	319	2280	2430	3900	8160	3750	24900	2360	816	2730	389	240
18	316	2520	2240	5000	4580	3330	18900	2030	689	1770	557	343
19	300	2850	2100	4800	3920	2980	12100	1750	769	1710	668	466
20	561	2240	1900	4400	3500	2620	6210	1330	719	1210	795	416
21	1000	1530	2070	3800	4130	2420	4660	1050	577	1080	1160	333
22	707	1170	2400	3700	7770	2660	3930	965	705	1280	3210	285
23	683	962	2230	3500	15000	2860	3490	880	933	1480	3150	257
24	601	839	1970	3600	22900	2630	2990	805	843	1290	1820	251
25	491	687	1710	7000	20700	2560	2600	739	760	910	1210	251
26	416	645	1560	12400	18000	2510	2340	828	652	663	917	240
27	363	1050	1410	15200	10600	9250	2270	2410	1630	673	848	221
28	327	4250	1480	15600	5400	27200	2350	2210	1700	649	718	212
29	295	5440	4050	14500	---	31700	2400	1430	2000	645	614	213
30	283	3240	5740	10900	---	29500	4120	1060	1420	1160	690	205
31	342	---	5090	6950	---	25600	---	895	---	952	644	---
TOTAL	11318	39323	167190	248470	361810	322260	277280	74392	32053	29351	26614	12457
MEAN	365	1311	5393	8015	12920	10400	9243	2400	1068	947	859	415
MAX	1000	5440	25800	17900	38500	31700	25500	6550	2600	2730	3210	1520
MIN	185	380	1360	2920	2050	2420	2270	739	545	430	301	205
CFSM	.23	.82	3.36	4.99	8.04	6.47	5.75	1.49	.66	.59	.53	.26
IN.	.26	.91	3.87	5.75	8.38	7.46	6.42	1.72	.74	.68	.62	.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1994, BY WATER YEAR (WY)

	641	1757	3771	4654	5306	6018	4341	2827	1477	964	681	481
MEAN	641	1757	3771	4654	5306	6018	4341	2827	1477	964	681	481
MAX	4413	6552	9751	11860	13550	14670	9717	9572	8305	4906	2142	3280
(WY)	1990	1978	1992	1974	1956	1963	1977	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 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1951 - 1994

ANNUAL TOTAL	955032	1602518	2732
ANNUAL MEAN	2617	4390	4390
HIGHEST ANNUAL MEAN			1159
LOWEST ANNUAL MEAN			1988
HIGHEST DAILY MEAN	28700	Mar 25	47600
LOWEST DAILY MEAN	161	Sep 14	6.1
ANNUAL SEVEN-DAY MINIMUM	188	Jul 23	6.9
INSTANTANEOUS PEAK FLOW			49700
INSTANTANEOUS PEAK STAGE			35.03
INSTANTANEOUS LOW FLOW			6.1
ANNUAL RUNOFF (CFSM)	1.63	2.73	1.70
ANNUAL RUNOFF (INCHES)	22.11	37.10	23.10
10 PERCENT EXCEEDS	5500	15000	6560
50 PERCENT EXCEEDS	1070	1750	1200
90 PERCENT EXCEEDS	236	328	160

CUMBERLAND RIVER BASIN

03404500 CUMBERLAND RIVER AT CUMBERLAND FALLS, KY

LOCATION.--Lat 36°50'14", long 84°20'36", McCreary County, Hydrologic Unit 05130101, on left bank 0.1 mi downstream from bridge on State Highway 90, 0.2 mi upstream from Cumberland Falls, and at mile 562.4.

DRAINAGE AREA.--1,977 mi².

PERIOD OF RECORD.--August 1907 to December 1911, October 1914 to September 1994 (discontinued). Monthly discharge only for October 1914 to March 1915 and October 1931 to July 1932, published in WSP 1306.

REVISED RECORDS.--WSP 1386: 1919. WSP 1436: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 825.49 ft above Sandy Hook datum; 825.28 ft above sea level. Aug. 15, 1907 to Dec. 10, 1911, nonrecording gage at site 300 ft downstream at different datum. Apr. 3, 1915 to Sept. 1, 1933, nonrecording gage at site 500 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Jan. 18-25, May 2-23, and Sept. 29, 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 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	585	498	2590	4570	6030	5190	22600	5950	1000	1450	971	963
2	429	739	2080	3640	4680	7150	14400	5100	882	1370	810	1890
3	338	849	1750	3260	3840	17300	8340	4800	821	1140	838	1220
4	280	829	6540	6690	3380	17900	6680	4250	737	981	782	894
5	250	746	26400	10300	3060	14400	5780	3900	656	755	756	705
6	239	665	26900	9080	2820	10100	5550	3600	629	645	1010	599
7	238	637	22100	10900	2630	7620	7330	3200	660	547	1200	554
8	237	637	18600	20100	2400	9310	7530	5200	1480	485	1070	525
9	220	649	10500	19100	12100	15100	7140	7100	2040	481	812	488
10	204	593	5180	16600	25800	21600	6330	5900	1360	571	646	431
11	193	512	5900	10200	36500	20300	13500	4600	2050	526	537	371
12	257	464	5370	7650	40600	19200	21300	3500	2540	551	464	325
13	354	449	4220	9810	39600	15500	20000	2850	1740	534	408	296
14	357	437	3620	9360	36600	8760	19600	2200	1220	576	372	277
15	349	623	3220	7170	29900	6210	19800	1900	1110	1090	369	262
16	355	1620	2940	5040	21200	5120	29700	2100	955	1410	349	254
17	368	2940	2700	4020	11000	4270	27500	2600	941	3160	341	255
18	361	3240	2480	6000	5610	3730	21100	2200	877	2290	461	305
19	374	3060	2360	6050	4530	3360	15000	1950	751	1870	668	420
20	475	2760	2180	5400	3990	2990	7940	1600	868	1640	867	523
21	925	2000	2230	4900	4880	2730	5520	1400	730	1300	1250	429
22	1110	1580	2600	4700	9200	2910	4490	1200	801	1470	2520	337
23	851	1310	2520	4400	20700	3110	3880	1050	1080	1550	3650	294
24	817	1130	2260	4700	25400	3010	3390	979	1110	1590	2370	274
25	685	993	2060	8100	22300	2900	2930	913	1030	1270	1610	263
26	563	851	1890	14800	19500	2900	2630	907	884	914	1220	255
27	471	1230	1760	16800	13300	14300	2540	2410	1290	728	1030	247
28	402	3650	1770	19200	6730	38200	2610	2710	2290	790	968	223
29	362	6050	4430	17200	---	34600	2850	1940	1980	844	815	220
30	349	4020	6540	13100	---	31700	6850	1420	1890	978	1440	215
31	369	---	6030	8680	---	27700	---	1150	---	1270	999	---
TOTAL	13367	45761	191720	291520	418280	379170	324810	90579	36402	34756	31603	14414
MEAN	431	1525	6185	9404	14940	12230	10830	2922	1213	1121	1019	480
MAX	1110	6050	26900	20100	40600	38200	29700	7100	2540	3160	3650	1990
MIN	193	437	1750	3260	2400	2730	2540	907	629	481	341	215
CFSM	.22	.77	3.13	4.76	7.56	6.19	5.48	1.48	.61	.57	.52	.24
IN.	.25	.86	3.61	5.49	7.87	7.13	6.11	1.70	.68	.65	.59	.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 1994, BY WATER YEAR (WY)

	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919
MEAN	686	1840	3851	5817	6324	7077	5027	3277	1736	1337	925	555
MAX	5330	7963	17620	17570	15740	18510	11390	11230	8954	6379	4171	4410
(WY)	1900	1978	1927	1937	1939	1917	1977	1984	1989	1941	1942	1989
MIN	10.5	44.2	141	227	462	1572	987	417	103	47.5	37.3	23.0
(WY)	1954	1940	1940	1981	1941	1988	1963	1936	1936	1944	1925	1925

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	FOR 1994 WATER YEAR	WATER YEARS 1908 - 1994
ANNUAL TOTAL	1082863	1872382		
ANNUAL MEAN	2967	5130		3190
HIGHEST ANNUAL MEAN				5196
LOWEST ANNUAL MEAN				1324
HIGHEST DAILY MEAN	29200	Mar 25	40600	Feb 12
LOWEST DAILY MEAN	167	Jul 30	193	Oct 11
ANNUAL SEVEN-DAY MINIMUM	192	Jul 25	226	Oct 5
INSTANTANEOUS PEAK FLOW			44400	Feb 12
INSTANTANEOUS PEAK STAGE			12.68	Feb 12
INSTANTANEOUS LOW FLOW				4.0
ANNUAL RUNOFF (CFSM)	1.50		2.59	1.61
ANNUAL RUNOFF (INCHES)	20.38		35.23	21.93
10 PERCENT EXCEEDS	6560		17000	7890
50 PERCENT EXCEEDS	1280		2000	1390
90 PERCENT EXCEEDS	275		369	157

CUMBERLAND RIVER BASIN

03404900 LYNN CAMP CREEK AT CORBIN, KY

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

DRAINAGE AREA.--53.8 mi².

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

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

REMARKS.--Estimated daily discharges: Jan. 16-23, July 9-12, Aug. 11-13, 15-20, and 23-27. Records good 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	45	59	87	105	104	242	96	19	18	23	18
2	20	33	50	84	87	372	181	72	17	13	117	11
3	16	28	47	134	81	562	161	68	15	11	87	7.9
4	16	26	814	456	74	406	161	81	13	11	37	6.4
5	13	25	1540	218	74	251	122	64	13	9.7	208	6.2
6	11	25	380	165	74	173	177	55	14	8.2	98	9.2
7	9.8	23	172	983	65	171	239	290	37	7.4	55	7.9
8	8.9	20	113	875	62	832	167	533	169	7.1	40	5.9
9	8.9	18	92	244	535	998	136	168	91	e6.6	29	4.4
10	8.9	18	215	156	612	855	470	110	55	e5.5	24	3.7
11	9.7	16	139	143	1740	332	1030	85	36	e5.0	e20	3.4
12	11	15	100	444	948	207	579	71	25	e6.0	e26	3.3
13	11	15	88	251	375	157	527	62	17	16	e20	3.0
14	10	23	84	178	231	135	260	56	14	33	16	3.0
15	8.5	143	87	115	167	109	348	89	25	189	e12	3.1
16	9.4	112	84	e90	128	89	848	89	17	390	e10	3.0
17	17	511	74	e84	104	78	299	56	9.9	142	e8.2	10
18	23	416	70	e70	94	77	190	46	8.9	65	e7.0	35
19	284	124	86	e58	85	89	148	40	8.4	34	e6.0	12
20	189	90	65	e50	89	66	118	38	6.8	21	e13	8.6
21	79	64	93	e44	531	121	99	36	32	17	266	7.0
22	70	50	79	e42	394	126	88	34	79	98	119	5.8
23	46	40	74	e40	1340	83	81	32	20	109	e44	5.1
24	34	37	69	192	543	76	72	29	49	46	e22	6.0
25	30	34	68	624	229	82	65	28	34	28	e12	6.2
26	26	46	63	692	148	70	65	59	90	19	e60	12
27	23	281	61	309	114	1150	76	75	148	16	e135	8.3
28	21	248	143	721	98	1220	64	36	57	16	30	5.2
29	19	106	220	324	---	552	74	28	36	196	88	4.4
30	28	75	130	187	---	264	162	23	27	59	47	3.8
31	41	---	98	135	---	355	---	21	---	25	21	---
TOTAL	1125.1	2707	5437	8195	9127	10142	7249	2570	1183.0	1627.5	1700.2	228.8
MEAN	36.3	90.2	175	264	326	327	242	82.9	39.4	52.5	54.8	7.63
MAX	284	511	1540	983	1740	1220	1030	533	169	390	266	35
MIN	8.5	15	47	40	62	66	64	21	6.8	5.0	6.0	3.0
CFSM	.67	1.68	3.26	4.91	6.06	6.08	4.49	1.54	.73	.98	1.02	.14
IN.	.78	1.87	3.76	5.67	6.31	7.01	5.01	1.78	.82	1.13	1.18	.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1994, BY WATER YEAR (WY)

	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
MEAN	34.3	88.2	127	151	164	157	106	88.0	50.0	39.0	26.6	32.4																
MAX	133	267	378	372	326	458	242	387	171	110	78.4	100																
(WY)	1990	1974	1991	1974	1994	1975	1994	1983	1989	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 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1967 - 1994	
ANNUAL TOTAL	32049.1		51291.6			
ANNUAL MEAN	87.8		141		88.3	
HIGHEST ANNUAL MEAN					141	
LOWEST ANNUAL MEAN					36.5	
HIGHEST DAILY MEAN	1540	Dec 5	1740	Feb 11	4150	May 7 1984
LOWEST DAILY MEAN	2.9	Jul 9	3.0	Sep 13	.02	Jun 24 1988
ANNUAL SEVEN-DAY MINIMUM	3.4	Jul 6	3.2	Sep 10	.02	Jun 24 1988
INSTANTANEOUS PEAK FLOW			2140		9000	
INSTANTANEOUS PEAK STAGE			8.51		22.50	
INSTANTANEOUS LOW FLOW			3.0		.02	
ANNUAL RUNOFF (CFSM)	1.63		2.61		1.64	
ANNUAL RUNOFF (INCHES)	22.16		35.47		22.29	
10 PERCENT EXCEEDS	181		373		196	
50 PERCENT EXCEEDS	45		65		37	
90 PERCENT EXCEEDS	7.9		8.8		3.4	

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: Jan. 16-23. Records good except for period of estimated record, which is 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 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	239	716	865	1490	1130	3700	1310	142	117	184	103
2	86	259	605	830	1150	1640	2650	1030	125	89	114	104
3	73	242	542	944	990	4890	2020	860	112	71	128	100
4	63	226	2070	5350	849	4410	1820	1440	101	73	128	75
5	57	231	13400	4070	757	3440	1470	1360	93	67	215	62
6	53	259	7350	2310	689	2400	1360	1130	89	55	1060	56
7	48	288	2660	5740	606	1800	1960	1740	103	52	529	51
8	42	247	1670	11500	556	5720	1890	6650	244	45	339	47
9	38	223	1210	3970	6320	13900	1610	3440	258	40	227	44
10	38	206	1310	2230	9810	19700	1800	1920	337	49	164	40
11	36	194	1930	1630	10500	7690	7330	1290	247	50	121	35
12	39	182	1450	2730	13600	3200	11400	976	171	46	97	31
13	56	178	1180	3220	6960	2190	5480	762	128	76	79	27
14	58	195	1040	2280	4670	1840	3320	621	104	101	75	25
15	50	2530	1060	1640	2870	1540	2610	1040	92	383	187	23
16	50	2670	1180	1040	2130	1240	10300	1370	84	318	241	22
17	184	1810	1060	835	1630	1040	4920	984	85	423	139	25
18	701	4190	974	770	1300	942	2640	756	79	459	91	30
19	1050	2120	884	740	1100	892	1850	617	73	265	70	34
20	4200	1320	779	690	972	754	1380	527	65	172	63	42
21	2170	930	781	630	1780	713	1080	456	59	122	216	41
22	1420	703	768	570	3360	1350	908	395	51	92	926	36
23	857	572	644	550	14200	1140	772	340	49	78	474	30
24	605	495	589	606	12500	990	658	293	57	71	305	27
25	476	442	553	1940	3830	972	589	256	63	67	210	25
26	385	398	542	8400	2380	905	534	245	106	56	152	23
27	316	555	493	6050	1660	9160	494	266	311	56	114	23
28	263	1600	568	9900	1310	19200	527	259	489	107	106	24
29	226	1240	1200	7630	---	10300	497	220	259	195	128	24
30	208	914	1120	3160	---	3880	1470	184	162	297	92	23
31	209	---	947	2030	---	3330	---	161	---	313	97	---
TOTAL	14165	25658	51275	94850	110069	132298	79039	32898	4348	4405	7071	1252
MEAN	457	855	1654	3060	3931	4268	2635	1061	145	142	228	41.7
MAX	4200	4190	13400	11500	14200	19700	11400	6650	489	459	1060	104
MIN	36	178	493	550	556	713	494	161	49	40	63	22
CFSM	.76	1.42	2.74	5.07	6.51	7.07	4.36	1.76	.24	.24	.38	.07
IN.	.87	1.58	3.16	5.84	6.78	8.15	4.87	2.03	.27	.27	.44	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1994, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1936	202	2887	1990	3.18	1954
1937	579	2374	1987	11.5	1954
1938	1304	5279	1991	18.5	1954
1939	1672	5990	1937	56.9	1981
1940	1961	5236	1956	208	1941
1941	2007	5860	1975	507	1983
1942	1478	4051	1972	188	1986
1943	921	4207	1983	115	1941
1944	518	2861	1947	37.9	1988
1945	362	1830	1941	10.8	1944
1946	206	1263	1977	10.1	1957
1947	158	1052	1974	4.95	1936

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1936 - 1994	
ANNUAL TOTAL	340053		557328			
ANNUAL MEAN	932		1527		943	
HIGHEST ANNUAL MEAN					1575	
LOWEST ANNUAL MEAN					345	
HIGHEST DAILY MEAN	13400	Dec 5	19700	Mar 10	46200	Dec 9 1978
LOWEST DAILY MEAN	21	Sep 2	22	Sep 16	.90	Sep 9 1957
ANNUAL SEVEN-DAY MINIMUM	25	Aug 28	24	Sep 24	1.4	Sep 11 1964
INSTANTANEOUS PEAK FLOW			21200	Mar 10	50000	Dec 9 1978
INSTANTANEOUS PEAK STAGE			28.64	Mar 10	47.17	Dec 9 1978
INSTANTANEOUS LOW FLOW			22	Sep 15	.80	Sep 9 1957
ANNUAL RUNOFF (CFSM)	1.54		2.53		1.56	
ANNUAL RUNOFF (INCHES)	20.94		34.33		21.21	
10 PERCENT EXCEEDS	2230		3920		2150	
50 PERCENT EXCEEDS	422		555		325	
90 PERCENT EXCEEDS	45		50		24	

CUMBERLAND RIVER BASIN

03410500 SOUTH FORK CUMBERLAND RIVER NEAR STEARNS, KY

LOCATION.--Lat 36°37'37", long 84°32'00", McCreary County, Hydrologic Unit 05130104, 400 ft upstream from Salt Branch, on right bank 1,000 ft below Bear Creek, 5.5 mi southwest of Stearns, and at mile 49.6.

DRAINAGE AREA.--954 mi².

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder and crest-stage gage. 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. Water-discharge 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 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	128	583	2370	2650	2030	6430	2140	308	1100	474	483
2	137	128	474	1920	2070	6200	4720	1740	263	753	367	952
3	115	151	406	1800	1720	13100	3600	1420	247	571	304	1040
4	100	156	7080	5300	1490	7240	3130	1580	231	455	267	877
5	88	152	36400	5150	1350	5050	2630	1720	210	358	311	565
6	81	149	8790	3510	1320	3730	7150	1420	201	308	628	431
7	73	346	3920	6700	1220	2880	9590	1220	215	266	657	358
8	71	288	2400	15000	1090	3130	5610	1480	920	228	432	315
9	70	224	1700	6470	7030	5790	4040	1780	755	205	426	270
10	70	187	4190	3940	16900	12200	3270	1370	582	372	324	229
11	72	162	7800	2810	44800	7560	13900	1120	1100	443	254	193
12	74	145	4080	5170	35400	4640	11800	929	959	738	210	170
13	102	138	2620	6640	9420	3420	12700	780	636	628	186	161
14	113	133	1960	4410	5470	2740	8060	683	712	750	283	143
15	97	310	1700	3070	3950	2270	5930	740	502	721	235	131
16	92	867	1670	2000	3030	1870	28400	976	643	2580	183	119
17	96	1150	1500	1910	2400	1560	9580	997	506	4950	177	117
18	99	1390	1330	2590	1990	1380	5150	732	471	2600	176	132
19	117	1240	1190	2060	1720	1240	3640	583	387	2680	156	179
20	127	767	1090	1750	1520	1110	2690	504	300	2550	165	192
21	117	554	1280	1700	2990	1070	2090	444	265	1740	360	180
22	120	429	1860	1390	9340	1230	1720	398	345	1470	1050	145
23	119	358	1690	1330	20500	1250	1460	357	470	1160	781	126
24	152	308	1450	1360	15900	1100	1250	319	512	845	495	122
25	153	272	1240	3520	6350	1230	1100	286	510	639	359	125
26	131	252	1100	12100	4160	1580	977	640	518	510	288	121
27	117	359	963	7800	2960	15900	1200	1300	7020	466	319	111
28	104	1050	1050	12900	2330	50700	1280	978	3760	523	253	118
29	94	1170	5350	10000	---	17300	1820	642	1880	551	281	108
30	98	801	5320	5230	---	7190	3590	465	1380	644	388	96
31	115	---	3310	3600	---	6210	---	369	---	503	456	---
TOTAL	3284	13764	115496	145500	211070	193900	168507	30112	26808	32307	11245	8309
MEAN	106	459	3726	4694	7538	6255	5617	971	894	1042	363	277
MAX	170	1390	36400	15000	44800	50700	28400	2140	7020	4950	1050	1040
MIN	70	128	406	1330	1090	1070	977	286	201	205	156	96
CFSM	.11	.48	3.91	4.92	7.90	6.56	5.89	1.02	.94	1.09	.38	.29
IN.	.13	.54	4.50	5.87	8.23	7.56	6.57	1.17	1.05	1.26	.44	.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1994, BY WATER YEAR (WY)

MEAN	407	1277	2714	3314	3610	3678	2561	1682	867	617	409	377
MAX	2553	4556	7388	9615	8747	10580	6038	6555	5152	3772	2997	2983
(WY)	1990	1958	1991	1950	1956	1975	1977	1984	1989	1967	1971	1982
MIN	20.8	30.6	150	145	725	1248	568	224	72.8	34.5	65.4	29.6
(WY)	1954	1954	1964	1981	1968	1985	1986	1948	1988	1944	1951	1953

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1943 - 1994
ANNUAL TOTAL	563943	960302	
ANNUAL MEAN	1545	2631	1785
HIGHEST ANNUAL MEAN			3023
LOWEST ANNUAL MEAN			810
HIGHEST DAILY MEAN	36400	Dec 5	80200
LOWEST DAILY MEAN	42	Aug 2	11
ANNUAL SEVEN-DAY MINIMUM	47	Jul 30	73
INSTANTANEOUS PEAK FLOW			66700
INSTANTANEOUS PEAK STAGE			37.86
INSTANTANEOUS LOW FLOW			67
ANNUAL RUNOFF (CFSM)	1.62	2.76	1.87
ANNUAL RUNOFF (INCHES)	21.99	37.45	25.42
10 PERCENT EXCEEDS	3810	6540	4080
50 PERCENT EXCEEDS	587	976	717
90 PERCENT EXCEEDS	92	128	83

CUMBERLAND RIVER BASIN

03410500 SOUTH FORK CUMBERLAND RIVER NEAR STEARNS, KY--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960-72, 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1980 to September 1990.

pH: May 1980 to September 1990.

WATER TEMPERATURE: May 1980 to September 1990.

DISSOLVED OXYGEN: May 1980 to September 1990.

TURBIDITY: May 1980 to September 1987.

SUSPENDED SEDIMENT DISCHARGE: May 1980 to September 1990.

INSTRUMENTATION.--Five parameter water-quality monitor and sediment pumping sampler since May 1980.

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

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 434 microsiemens, July 17, 1985; minimum recorded, 40 microsiemens, May 7, 1984.

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

WATER TEMPERATURE: Maximum recorded, 34.6°C, Aug. 31, Sept. 1, 1989; minimum recorded, 0.0°C, Dec. 25-27, 1983.

DISSOLVED OXYGEN: Maximum recorded, 14.3 mg/L, Dec. 21, 1981, Jan. 1, 2, 1984; minimum recorded, 4.5 mg/L, May 22, 1980.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,980 mg/L, Aug. 9, 1981; minimum daily mean, 0 mg/L, on several days in 1983-84, 1987-88.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (FT ³ /S)	SPECIFIC CONDUCTANCE (US/CM)	pH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED SATURATION (%)	COLIFORM, FECAL, UM-MF (COLS / 100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CaCO ₃)	CALCIUM DISSOLVED (MG/L AS Ca)
OCT 1993												
06...	1110	78	177	--	17.5	0.50	8.2	87	7	50	59	15
DEC												
07...	1220	3730	89	7.2	8.5	22	10.7	93	--	--	32	7.7
FEB 1994												
08...	1210	1050	119	6.9	4.0	0.90	12.4	98	K4	K6	43	9.7
APR												
05...	1210	2620	89	6.8	9.5	1.3	--	--	12	26	33	7.4
JUN												
14...	1225	688	197	7.1	23.5	1.5	8.0	96	24	110	68	17
AUG												
02...	1020	361	123	7.1	24.0	0.80	7.6	92	K18	85	45	11

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO ₃)	ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CaCO ₃)	ALKALINITY WAT DIS TOT FET FIELD (MG/L AS CaCO ₃)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE, DISSOLVED (MG/L AS SO ₄)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SiO ₂)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)
OCT 1993											
06...	5.3	8.2	2.0	--	--	--	4.3	40	0.10	2.0	106
DEC											
07...	3.1	2.1	1.4	13	11	11	1.7	24	0.10	4.4	62
FEB 1994											
08...	4.6	3.2	1.0	17	14	15	2.8	32	<0.10	4.7	70
APR											
05...	3.6	2.1	1.0	11	9	10	1.4	24	<0.10	4.9	56
JUN											
14...	6.3	8.0	1.7	39	32	32	3.6	55	<0.10	3.5	135
AUG											
02...	4.2	5.3	1.6	--	--	--	2.7	26	0.10	3.6	71

CUMBERLAND RIVER BASIN

03410500 SOUTH FORK CUMBERLAND RIVER NEAR STEARNS, KY--Continued
(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 1993											
06...	<0.010	0.095	0.030	<0.20	<0.010	<0.010	<0.010	10	29	<3	76
DEC											
07...	<0.010	0.330	0.020	0.20	0.040	<0.010	<0.010	80	22	<3	86
FEB 1994											
08...	0.020	0.270	0.020	<0.20	0.020	0.010	<0.010	--	--	--	--
APR											
05...	<0.010	0.260	0.210	<0.20	<0.010	<0.010	<0.010	70	21	<3	60
JUN											
14...	<0.010	0.140	0.030	<0.20	0.010	<0.010	<0.010	40	34	<3	48
AUG											
02...	<0.010	0.150	0.160	0.40	0.020	<0.010	<0.010	--	--	--	--

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. 7 FINER THAN .062 MM
OCT 1993											
06...	<4	23	<10	<1	<1	<1.0	53	<6	10	2.2	23
DEC											
07...	<4	70	<10	2	<1	<1.0	25	<6	31	314	79
FEB 1994											
08...	--	--	--	--	--	--	--	--	3	7.4	41
APR											
05...	<4	52	<10	3	<1	<1.0	26	<6	6	41	30
JUN											
14...	<4	16	<10	<1	<1	<1.0	56	<6	32	60	61
AUG											
02...	--	--	--	--	--	--	--	--	10	10	26

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: Jan. 13-23, 29, and Feb. 13. Records good 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 section.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	5.7	3.1	47	76	68	209	20	15	5.0	48	4.9
2	1.9	5.5	2.4	40	59	235	145	19	14	4.5	21	3.9
3	1.7	5.1	2.2	43	49	254	115	19	14	4.5	14	3.4
4	1.8	4.5	418	144	41	199	98	35	11	4.3	11	3.0
5	1.9	5.4	641	89	37	136	84	25	9.6	3.8	120	2.9
6	1.7	5.0	122	80	34	103	108	21	8.9	3.6	38	2.9
7	1.6	4.4	63	1070	31	89	112	46	18	2.9	22	2.9
8	1.6	3.7	39	367	28	240	96	136	28	2.9	16	2.5
9	1.5	3.4	30	159	179	936	81	60	14	2.9	13	2.5
10	1.7	3.5	102	104	52	617	127	41	12	2.9	10	2.2
11	2.2	3.3	83	82	68	233	2620	32	9.4	2.5	8.8	2.4
12	2.9	3.3	51	188	240	149	484	27	8.0	3.2	7.6	2.5
13	3.1	3.5	38	120	226	115	227	22	7.0	3.8	6.5	2.2
14	2.8	5.0	33	72	180	97	156	21	6.5	4.9	6.4	2.2
15	2.2	29	30	52	136	81	423	24	5.9	4.5	5.9	2.2
16	3.3	23	31	45	104	63	630	23	5.5	24	5.5	2.2
17	5.1	24	28	40	86	53	215	18	5.4	21	5.4	2.3
18	5.4	29	25	34	63	47	134	16	5.0	9.2	5.0	2.5
19	6.7	10	22	28	54	40	106	14	4.5	6.3	4.9	2.5
20	8.7	7.6	21	24	50	36	82	13	4.4	5.5	5.0	2.5
21	7.0	6.3	47	22	231	35	64	12	3.9	4.8	17	2.4
22	6.0	4.9	41	20	186	35	52	11	3.8	5.7	14	2.3
23	5.1	3.5	34	21	1320	32	41	10	3.8	7.8	7.4	2.5
24	4.4	2.8	28	103	323	32	37	9.6	4.1	7.5	5.9	2.5
25	4.7	2.5	26	343	175	52	33	9.6	5.2	5.4	5.2	3.2
26	4.5	2.0	23	302	121	44	30	105	5.6	4.4	5.0	3.8
27	3.5	3.9	21	185	95	935	28	112	19	13	4.4	3.4
28	3.1	9.8	77	577	77	1150	26	40	12	83	4.0	2.9
29	2.9	6.4	149	270	---	314	22	28	8.5	64	4.3	2.9
30	3.8	4.3	83	140	---	179	20	22	6.3	53	11	2.5
31	4.8	---	59	102	---	275	---	18	---	38	6.4	---
TOTAL	109.7	230.3	2372.7	4913	4331	6874	6605	1009.2	278.3	408.8	458.6	83.0
MEAN	3.54	7.68	76.5	158	155	222	220	32.6	9.28	13.2	14.8	2.77
MAX	8.7	29	641	1070	1320	1150	2620	136	28	83	120	4.9
MIN	1.5	2.0	2.2	20	28	32	20	9.6	3.8	2.5	4.0	2.2
CFSM	.08	.18	1.76	3.65	3.56	5.11	5.07	.75	.21	.30	.34	.06
IN.	.09	.20	2.03	4.21	3.71	5.89	5.66	.87	.24	.35	.39	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1994, BY WATER YEAR (WY)

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
MEAN	25.9	34.9	112	122	119	133	122	55.7	42.2	18.7	19.1	17.9				
MAX	281	109	459	265	225	479	234	215	193	101	124	106				
(WY)	1990	1980	1991	1974	1991	1975	1977	1983	1981	1971	1971	1982				
MIN	1.72	3.47	2.41	2.36	28.1	24.0	28.4	16.6	4.83	3.13	1.89	1.17				
(WY)	1981	1972	1981	1981	1981	1983	1978	1982	1980	1980	1980	1980				

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1969 - 1994	
ANNUAL TOTAL	15529.7		27673.6			
ANNUAL MEAN	42.5		75.8		68.3	
HIGHEST ANNUAL MEAN					103	
LOWEST ANNUAL MEAN					32.5	
HIGHEST DAILY MEAN	641	Dec 5	2620	Apr 11	4280	Oct 17 1989
LOWEST DAILY MEAN	1.5	Oct 9	1.5	Oct 9	.50	Oct 2 1968
ANNUAL SEVEN-DAY MINIMUM	1.7	Oct 3	1.7	Oct 3	.95	Sep 4 1980
INSTANTANEOUS PEAK FLOW			8900	Apr 11	9300	Oct 17 1989
INSTANTANEOUS PEAK STAGE			8.10	Apr 11	8.37	Oct 17 1989
INSTANTANEOUS LOW FLOW			1.5	Oct 9	.50	Oct 2 1968
ANNUAL RUNOFF (CFSM)	.98		1.75		1.57	
ANNUAL RUNOFF (INCHES)	13.31		23.72		21.39	
10 PERCENT EXCEEDS	106		179		137	
50 PERCENT EXCEEDS	14		20		21	
90 PERCENT EXCEEDS	2.3		2.8		2.7	

CUMBERLAND RIVER BASIN

03438000 LITTLE RIVER NEAR CADIZ, KY

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

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

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

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

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

REMARKS.--Estimated daily discharges: Jan. 14-18. Records good except for period of estimated record, which is fair. 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 1993 TO SEPTEMBER 1994 DAILY MEAN VALUES

Table with 13 columns (DAY, OCT, NOV, DEC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP) and 31 rows of daily discharge data, plus summary statistics at the bottom.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1994, BY WATER YEAR (WY)

Table with 13 columns (MEAN, MAX, MIN) and 13 rows (WY 1940-1994) showing monthly mean discharge statistics.

SUMMARY STATISTICS FOR 1993 CALENDAR YEAR FOR 1994 WATER YEAR WATER YEARS 1940 - 1994

Summary statistics table with 5 columns: Metric, 1993 Calendar Year, 1994 Water Year, 1940-1994 Range, and 1940-1994 Date.

CUMBERLAND RIVER BASIN

03438190 BARKLEY-KENTUCKY CANAL NEAR GRAND RIVERS, KY

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

PERIOD OF RECORD.--June 1966 to current year.

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

REMARKS.--No estimated daily discharges. Records fair. Figures of discharge represent net flow between Lake Barkley in Cumberland River Basin and Kentucky Lake in Tennessee River Basin. Canal initially opened on June 13, 1966. Discharges shown as minus are flow from Kentucky Lake to Lake Barkley. 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 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-18700	-2790	-16700	-24100	-34800	-3540	-590	-17900	-18700	-31700	-27300	-8720
2	-612	-7820	-14500	-18900	-38300	-6250	-13200	-10000	-17000	-29900	-32600	-12700
3	-6070	-3570	-16100	-21400	-30900	-16900	-8460	2850	-12900	-21100	-30000	-8660
4	-6050	-2690	-14500	-25700	-24800	-12500	-15400	-210	1600	-7240	-30000	-8350
5	-7390	5860	-5490	-32300	-18600	-11100	-8860	-9420	836	-8760	-30100	-17600
6	-10400	-1180	10600	-23600	-11600	-8560	-8510	-7090	-1770	-16100	-29000	-19900
7	-15700	2690	-2190	-14300	-4370	-6170	-7220	499	-3630	-17900	-13100	-18500
8	-6410	-3860	-22900	-9940	-6540	-3470	-3680	-4360	-6650	-14200	-9050	-15800
9	-2140	-9500	-34300	3930	980	-3960	-3910	-5070	-23100	-6640	-10800	-13800
10	-3660	-8470	-30400	5450	16200	17300	4980	-14500	-33600	-7200	-14900	-19900
11	-2640	-564	-23500	603	10400	30000	21700	-22200	-36200	-4570	1740	-18400
12	-3790	-2920	-23900	-2540	9330	32700	37200	-12000	-26600	-15000	8070	-16800
13	4780	4110	-28200	-381	17200	29200	45500	-9490	-28400	-16800	-11100	-17500
14	3260	433	-29500	-4170	13500	17100	36700	-9510	-27400	-22600	-12700	-24100
15	3730	2390	-20300	-15300	3980	13200	9360	3230	-24300	-31100	-9050	-18600
16	-212	-24100	-16400	-20100	8100	3910	3150	5440	-21100	-18000	-10400	-18500
17	1570	-25300	-21000	-4200	7810	-2690	13600	-48	-17200	-6700	-16900	-7420
18	3180	-27100	-16700	-11600	-13900	1940	3640	-7730	-4090	-17700	-12200	-5440
19	1340	-23800	-14300	-18500	-22700	8640	-1630	-4600	2140	-23500	-11100	-7180
20	-3720	-17700	-13800	-18200	-20700	10900	-8760	-7490	-2130	-19900	-14500	-16800
21	-524	1100	-25000	-16600	-13100	8600	-17400	-2960	-11000	-29200	6080	-21300
22	581	-5320	-22400	-18600	-4920	759	-18500	4170	-5840	-25800	-410	-24100
23	-1710	-11100	-20200	-20700	12300	6780	-12900	3190	-12500	-15100	-3150	-20300
24	968	-8420	-22100	-20500	32300	8560	-9130	-4150	-3820	-5150	-3800	-11500
25	139	-5280	-16800	-15800	36200	-9860	-9140	-330	-3490	-7820	-18000	-1750
26	-896	-1760	-21500	1840	32600	-23700	-9610	-3520	10500	-16100	-26000	-559
27	710	-3650	-12700	8250	16900	-3890	-11600	-4220	13300	-9310	-12700	-18400
28	-3280	-484	4310	16900	-3330	12200	-12000	-7600	-17400	-8970	-4740	-23200
29	3720	-2140	-6850	24900	---	22200	-18500	-5210	-20500	-13000	-3930	-20500
30	-1880	-15200	-16400	14600	---	21400	-28300	-7260	-27300	-36200	-14400	-18900
31	-3600	---	-17200	-14700	---	14700	---	-7890	---	-38800	-6790	---
TOTAL	-75406	-198135	-530920	-295658	-30760	147499	-52470	-165379	-378244	-542060	-402830	-455179
MEAN	-2432	-6604	-17130	-9537	-1099	4758	-1749	-5335	-12610	-17490	-12990	-15170
MAX	4780	5860	10600	24900	36200	32700	45500	5440	13300	-4570	8070	-559
MIN	-18700	-27100	-34300	-32300	-38300	-23700	-28300	-22200	-36200	-38800	-32600	-24100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1994, BY WATER YEAR (WY)

	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	
MEAN	-7714	-10520	-9997	-7440	-8612	-6480	-1346	-6124	-5519	-7718	-7869	-6656																		
MAX	4584	3266	6337	19250	3980	8049	9814	11120	6507	4620	5562	1523																		
(WY)	1982	1982	1979	1991	1989	1989	1972	1984	1981	1966	1966	1966																		
MIN	-24200	-30180	-25820	-23210	-24390	-21560	-10380	-24140	-19220	-18440	-16570	-22440																		
(WY)	1976	1993	1972	1984	1987	1990	1991	1991	1991	1975	1979	1989																		

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1966 - 1994

ANNUAL TOTAL	-2756538	-2979542		
ANNUAL MEAN	-7552	-8163		
HIGHEST ANNUAL MEAN				-849
LOWEST ANNUAL MEAN				-13190
HIGHEST DAILY MEAN	35200	Mar 28	45500	Apr 13
LOWEST DAILY MEAN	-34300	Dec 9	-38800	Jul 31
ANNUAL SEVEN-DAY MINIMUM	-27500	Dec 8	-32100	Jul 30
INSTANTANEOUS PEAK STAGE			66.47	Apr 23
10 PERCENT EXCEEDS	3470		8370	70.34
50 PERCENT EXCEEDS	-5530		-8470	
90 PERCENT EXCEEDS	-23300		-24100	

CUMBERLAND RIVER BASIN

03438220 CUMBERLAND RIVER NEAR GRAND RIVERS, KY

LOCATION.--Lat 37°01'18", Long 88°13'16", Lyon County, Hydrologic Unit 05130205, on right bank in powerhouse at Barkley Dam, 0.7 mi upstream from bridge on U.S. Highway 62 and 641, 1.5 mi northeast of Grand Rivers, and at mile 30.6.

DRAINAGE AREA.--17,598 mi².

PERIOD OF RECORD.--February 1939 to current year (fragmentary prior to April 1940). Monthly discharge only for some periods, published in WSP 1306. Prior to October 1964, published as "at Smithland."

REVISED RECORD.--WSP 1173: 1974(M). WSP 1336: 1940-43.

GAGE.--Water-stage recorder. Datum of gage is 300.00 ft above sea level (levels by U.S. Army Corps of Engineers). Auxiliary water-stage recorder at Dycysburg at mile 19.6. See WDR KY-88-1 for history of changes prior to Dec. 28, 1965.

REMARKS.--No estimated daily discharges. Records fair except those below 10,000 ft³/s, which are poor. Regulation of navigation dams on Cumberland River, and by Lake Cumberland, Dale Hollow Reservoir, Great Falls Lake, Center Hill Reservoir, Old Hickory Lake, J. Percy Priest Reservoir, and Lake Barkley. Barkley-Kentucky Canal (station 03438190) diverts water from or to Kentucky Lake in Tennessee River Basin and is included in this record since October 1965.

COOPERATION.--Discharges for days of negative fall or excessive fall were provided by U.S. Army Corps of Engineers.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January to February 1937 reached a stage of 51.1 ft, former site and datum, 60.3 ft, present site and datum (from U.S. Army Corps of Engineers river profile).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994--DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15600	8160	23600	51100	134000	96300	148000	135000	28900	54200	57700	28200
2	14300	8000	25500	51300	110000	100000	131000	106000	28700	54500	58600	26300
3	14000	8390	24100	51000	77500	107000	115000	68900	29000	55800	57300	26600
4	15200	8160	38400	51100	70000	105000	112000	64800	7030	42300	57300	27500
5	14100	8560	53300	49000	70300	105000	103000	64600	7260	35300	59100	32900
6	15900	6200	65800	46000	61200	105000	106000	57400	13100	33200	49400	32600
7	17800	6120	77000	46100	54800	104000	108000	51000	13800	27100	31300	30200
8	16600	14600	78400	50900	55600	102000	111000	50200	21100	26500	31800	30800
9	5160	14500	81300	51100	57500	106000	112000	56700	40700	21500	31600	23100
10	5170	9500	80800	50500	64800	115000	112000	62800	45200	20900	38800	26100
11	5310	9980	82600	50300	93200	129000	128000	63700	46800	19800	11500	26400
12	5420	10000	82300	50000	118000	124000	148000	56900	46800	19400	11400	33700
13	5970	6100	83100	54300	125000	114000	145000	49700	45400	31800	33300	27600
14	8640	6150	82300	51900	136000	118000	140000	49200	33000	41500	34400	34000
15	11500	15900	68400	50700	149000	113000	133000	38900	33400	41400	34200	34200
16	13400	48800	53200	52100	135000	107000	95400	39800	34300	22300	33500	39100
17	12600	47000	54300	53400	118000	108000	55900	39400	28400	21500	34000	22900
18	12800	51500	54500	54200	119000	94300	67500	37800	16500	34700	27900	20800
19	12900	52200	55500	53100	119000	76500	101000	29100	14900	40900	27000	24000
20	12200	31100	55800	60000	118000	75500	123000	30400	22200	38400	29800	28200
21	9030	18100	56100	60100	121000	75800	118000	21700	20400	51400	19100	35200
22	18600	19500	56500	60100	116000	61600	114000	13500	20700	33400	27700	32300
23	8250	18800	55700	59900	119000	44300	113000	13600	18500	26600	28500	31300
24	6240	17100	55900	67200	128000	51300	114000	15300	20000	18200	28700	12400
25	6090	16500	42500	61700	136000	63300	127000	6090	20300	27500	44600	11500
26	6160	14800	43000	56000	128000	82300	147000	15200	22400	35300	44800	12700
27	6270	10300	43900	71600	100000	95800	151000	19900	31100	23400	26700	30800
28	6190	9910	26400	99400	96600	129000	149000	21400	55600	14500	25100	31000
29	7740	11800	29800	107000	---	153000	150000	21700	50000	25800	27400	30000
30	7010	19600	50100	110000	---	155000	149000	21700	56400	57900	26600	32100
31	10800	---	51200	122000	---	154000	---	21900	---	58800	26800	---
TOTAL	326950	527330	1731300	1903100	2930500	3170000	3626800	1344290	871890	1055800	1075900	834500
MEAN	10550	17580	55850	61390	104700	102300	120900	43360	29060	34060	34710	27820
MAX	18600	52200	83100	122000	149000	155000	151000	135000	56400	58800	59100	39100
MIN	5160	6100	23600	46000	54800	44300	55900	6090	7030	14500	11400	11500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1994, BY WATER YEAR (WY)

	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	
MEAN	21310	30800	49660	55630	56860	53820	41630	38660	28650	25900	24930	21110																		
MAX	55260	62960	97370	114400	104700	118300	120900	99410	63640	57470	39380	53030																		
(WY)	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977																		
MIN	6085	7718	8592	6245	23010	14450	4744	4965	6139	5759	7780	6398																		
(WY)	1966	1966	1981	1981	1977	1981	1986	1988	1988	1988	1988	1988																		

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1966 - 1994	
ANNUAL TOTAL	11377400		19398360			
ANNUAL MEAN	31170		53150			
HIGHEST ANNUAL MEAN					56740	1973
LOWEST ANNUAL MEAN					14900	1988
HIGHEST DAILY MEAN	83100	Dec 13	155000	Mar 30	202000	Mar 16 1975
LOWEST DAILY MEAN	3000	Jul 23	5160	Oct 9	50	Oct 30 1965
ANNUAL SEVEN-DAY MINIMUM	4300	Aug 5	6530	Oct 24	3090	Apr 23 1986
INSTANTANEOUS PEAK FLOW			162000	Mar 30	209000	Mar 16 1975
INSTANTANEOUS PEAK STAGE			40.45	Apr 26	49.04	Mar 30 1975
10 PERCENT EXCEEDS	53800		118000		67900	
50 PERCENT EXCEEDS	28900		43000		31800	
90 PERCENT EXCEEDS	6260		11500		8030	

TENNESSEE RIVER BASIN

03610200 CLARKS RIVER AT ALMO, KY

LOCATION.--Lat 36°41'30", long 88°16'25", Calloway County, Hydrologic Unit 06040008, 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: Nov. 7, 8, Dec. 28-31, Jan 8-10, 14-22, 29 to Feb. 7, 10, 11, 14-18, 24-28, June 28, and 29. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	10	30	39	130	90	113	399	42	20	7.7	6.4
2	13	9.8	44	38	110	94	95	125	34	18	7.3	113
3	9.4	10	503	36	100	76	147	82	27	17	7.1	14
4	5.8	11	4650	36	86	65	164	67	25	16	7.4	6.7
5	5.2	13	1030	32	80	55	266	55	21	16	249	10
6	4.9	11	280	31	70	47	822	47	43	78	34	14
7	4.9	9.1	160	1900	66	41	264	57	787	21	13	6.7
8	5.1	9.3	106	400	82	289	155	297	146	29	9.9	5.6
9	5.5	11	87	150	934	2380	116	70	311	22	8.6	5.2
10	5.2	10	453	92	500	872	2520	45	340	15	7.6	4.9
11	4.9	10	170	81	300	533	3620	35	84	13	7.4	4.5
12	4.9	13	90	143	763	246	661	32	406	12	8.9	4.6
13	5.0	30	81	125	774	171	328	28	81	18	6.7	4.8
14	5.2	832	164	100	360	138	163	44	43	35	6.2	4.7
15	5.2	1310	138	88	240	111	1400	55	32	46	5.6	4.9
16	14	409	94	78	170	81	1260	33	27	21	5.7	5.0
17	6.9	3050	67	70	150	65	215	27	24	16	5.5	6.3
18	5.3	360	55	66	130	61	133	23	21	14	5.4	5.9
19	238	185	45	62	155	50	95	26	19	13	5.5	4.8
20	1450	130	41	58	1620	44	72	26	17	12	5.3	5.1
21	170	94	37	56	883	43	61	22	17	12	7.9	5.1
22	35	68	33	62	1390	38	50	19	17	78	6.0	5.3
23	20	56	31	133	2780	35	43	18	20	19	5.7	11
24	15	47	30	456	350	33	38	17	208	14	5.5	7.1
25	13	42	29	1120	200	37	36	128	75	11	6.8	30
26	12	47	26	847	120	149	186	833	443	16	6.2	8.6
27	11	44	27	3510	96	5620	58	78	490	16	6.1	7.8
28	11	38	70	3290	82	2870	1120	40	58	11	5.7	5.7
29	10	34	64	500	---	391	274	30	34	9.7	6.7	5.2
30	12	31	50	250	---	208	452	50	25	8.1	8.1	5.2
31	11	---	40	150	---	147	---	99	---	7.6	8.2	---
TOTAL	2123.2	6934.2	8725	13999	12721	15080	14927	2907	3917	654.4	486.7	328.1
MEAN	68.5	231	281	452	454	486	498	93.8	131	21.1	15.7	10.9
MAX	1450	3050	4650	3510	2780	5620	3620	833	787	78	249	113
MIN	4.8	9.1	26	31	66	33	36	17	17	7.6	5.3	4.5
CFSM	.51	1.72	2.10	3.37	3.39	3.63	3.71	.70	.97	.16	.12	.08
IN.	.59	1.93	2.42	3.89	3.53	4.19	4.14	.81	1.09	.18	.14	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1994, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
MEAN	56.1	201	414	231	529	251	246	214	83.4	62.5	20.5	15.6
MAX	205	684	1065	550	1693	576	623	925	243	264	135	36.0
(WY)	1986	1989	1983	1988	1989	1984	1983	1983	1989	1989	1985	1990
MIN	2.96	23.1	43.6	27.4	109	62.7	21.6	12.4	3.88	4.95	2.40	2.36
(WY)	1988	1988	1993	1987	1983	1988	1986	1988	1988	1986	1983	1983

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1983 - 1994	
ANNUAL TOTAL	59925.3		82802.6			
ANNUAL MEAN	164		227		192	
HIGHEST ANNUAL MEAN					367	
LOWEST ANNUAL MEAN					69.8	
HIGHEST DAILY MEAN	4650		5620		11200	
LOWEST DAILY MEAN	4.1		4.5		1.6	
ANNUAL SEVEN-DAY MINIMUM	4.7		4.8		1.7	
INSTANTANEOUS PEAK FLOW			6710		16000	
INSTANTANEOUS PEAK STAGE			14.96		17.40	
ANNUAL RUNOFF (CFSM)	1.23		1.69		1.43	
ANNUAL RUNOFF (INCHES)	16.64		22.99		19.44	
10 PERCENT EXCEEDS	359		470		353	
50 PERCENT EXCEEDS	35		41		29	
90 PERCENT EXCEEDS	5.5		5.7		4.8	

TENNESSEE RIVER BASIN

03610545 WEST FORK CLARKS RIVER NEAR BREWERS, KY

LOCATION.--Lat 36°46'48", long 88°28'03", Marshall County, Hydrologic Unit 06040006, on left bank at downstream side of bridge on State Highways 58 and 80, 400 ft upstream from Moss Branch, 1.3 mi upstream from Soldier Creek, 1.7 mi northwest of Brewers, and at mile 20.8.

DRAINAGE AREA.--68.7 mi².

PERIOD OF RECORD.--October 1968 to September 1983, December 1988 to September 1994 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 370.05 ft above sea level.

REMARKS.--Estimated daily discharges: Jan. 15-23. Records fair except for period of estimated record, which is poor. Maximum discharge for period of record from rating curve extended above 3,800 ft³/s. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section. Gage heights published in Kentucky WDR Reports 1983-89 are incorrect. Correct figures may be obtained by subtracting 0.48 feet.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	26	26	41	82	59	77	161	23	17	5.6	5.1
2	19	26	42	41	67	53	64	92	60	15	5.6	6.8
3	18	26	597	37	55	45	88	70	40	14	5.4	4.9
4	15	27	1220	36	50	45	77	57	20	13	88	4.6
5	15	28	458	31	47	41	367	48	18	13	54	8.6
6	15	26	243	33	41	38	410	41	17	113	15	12
7	12	25	146	87	38	37	154	47	23	121	11	8.4
8	12	25	92	48	39	99	98	43	25	92	9.3	6.2
9	14	25	73	36	206	424	77	37	20	53	8.3	5.6
10	13	25	79	31	104	431	965	32	20	30	6.8	5.3
11	13	25	60	33	144	348	997	28	41	21	6.0	5.2
12	14	25	49	63	338	191	605	25	26	17	5.6	5.0
13	14	98	52	52	318	121	289	23	19	18	5.3	4.9
14	14	691	76	43	170	94	168	24	16	17	5.2	4.8
15	14	409	67	37	116	77	527	25	14	15	5.2	4.9
16	20	450	53	36	87	61	306	24	13	15	4.8	4.8
17	20	1020	45	34	72	52	154	20	13	14	4.7	8.5
18	18	209	41	32	61	47	107	19	12	13	4.5	8.4
19	23	116	37	30	53	41	84	18	12	12	4.6	6.0
20	451	62	36	28	628	40	70	16	11	11	5.4	5.7
21	113	46	34	27	307	45	59	16	10	12	8.6	5.7
22	52	38	31	26	689	35	51	15	9.8	13	5.5	5.6
23	41	33	29	60	617	32	45	15	12	10	5.0	14
24	35	31	28	251	235	32	41	14	72	9.7	4.9	11
25	31	34	29	815	138	33	38	262	27	9.1	4.8	9.5
26	29	44	25	522	89	119	112	340	244	9.2	4.8	10
27	27	41	26	926	69	1510	58	113	140	8.4	4.7	11
28	26	33	57	685	56	695	247	58	43	7.5	4.4	9.4
29	26	30	52	307	---	281	106	37	28	7.2	4.7	8.7
30	28	27	41	187	---	164	359	33	20	6.7	6.5	8.5
31	29	---	37	119	---	103	---	30	---	6.2	6.3	---
TOTAL	1183	3721	3881	4734	4916	5393	6800	1783	1048.8	733.0	320.5	219.1
MEAN	38.2	124	125	153	176	174	227	57.5	35.0	23.6	10.3	7.30
MAX	451	1020	1220	926	689	1510	997	340	244	121	88	14
MIN	12	25	25	26	38	32	38	14	9.8	6.2	4.4	4.6
CFSM	.56	1.81	1.82	2.22	2.56	2.53	3.30	.84	.51	.34	.15	.11
IN.	.64	2.01	2.10	2.56	2.66	2.92	3.68	.97	.57	.40	.17	.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1994, BY WATER YEAR (WY)

	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
MEAN	17.8	65.5	168	138	207	160	165	91.2	51.0	42.4	20.7	26.2														
MAX	61.5	306	583	302	974	804	482	470	300	144	99.0	172														
(WY)	1969	1974	1991	1974	1989	1975	1979	1983	1981	1989	1982	1979														
MIN	5.99	8.93	10.8	7.03	15.1	40.5	20.3	15.3	6.74	5.33	2.79	2.37														
(WY)	1969	1972	1977	1977	1977	1983	1971	1992	1972	1970	1983	1983														

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1969 - 1994	
ANNUAL TOTAL	28372.8		34732.4			
ANNUAL MEAN	77.7		95.2		91.4	
HIGHEST ANNUAL MEAN					190	
LOWEST ANNUAL MEAN					25.6	
HIGHEST DAILY MEAN	2690	Apr 9	1510	Mar 27	7000	Feb 14 1989
LOWEST DAILY MEAN	5.7	Aug 4	4.4	Aug 28	1.1	Aug 23 1982
ANNUAL SEVEN-DAY MINIMUM	6.0	Jul 30	4.8	Aug 23	1.2	Sep 7 1983
INSTANTANEOUS PEAK FLOW			2620	Nov 16	9370	Mar 12 1975
INSTANTANEOUS PEAK STAGE			10.80	Nov 16	17.61	Mar 12 1975
ANNUAL RUNOFF (CFSM)	1.13		1.39		1.33	
ANNUAL RUNOFF (INCHES)	15.36		18.81		18.09	
10 PERCENT EXCEEDS	157		255		185	
50 PERCENT EXCEEDS	32		33		24	
90 PERCENT EXCEEDS	9.2		6.1		6.0	

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 on 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: Oct. 6-18, 20-22, Nov. 5-7, 10-14, Nov. 22 to Dec. 1, Dec. 3-8, 14-17, 22, 23, 28-30, Jan. 7, 8, 12-23, Mar. 8, 9, 15-25, 29, 30, Apr. 8-10, 30, and May 1. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.57	.75	2.4	3.7	9.9	9.7	5.2	20	1.5	1.2	.72	.75
2	3.3	.75	35	3.6	8.5	9.1	4.4	6.7	1.5	1.2	.74	.67
3	.91	.80	250	3.3	7.0	8.2	7.4	4.8	1.5	1.1	.74	.63
4	.59	.91	200	3.0	6.7	8.0	4.9	4.0	1.5	1.1	2.2	.64
5	.59	.83	70	2.6	6.4	7.3	63	3.2	1.4	.93	1.3	1.1
6	.54	.76	26	2.9	5.4	7.1	62	2.8	69	.92	.75	.73
7	.52	.75	14	2.9	4.8	7.1	11	3.0	14	.89	.74	.72
8	.54	.76	7.8	2.1	5.2	30	7.0	2.8	2.6	4.2	.72	.76
9	.58	.76	7.9	2.0	9.3	40	5.3	2.6	2.2	1.1	.74	.63
10	.60	.74	9.3	2.1	8.4	55	80	2.5	2.0	.87	.71	.61
11	.68	.72	6.7	3.0	17	107	221	2.2	2.3	.85	.70	.60
12	.66	1.0	5.5	15	35	73	126	2.2	2.2	32	.70	.61
13	.68	3.0	9.9	6.7	22	35	23	2.1	1.9	5.2	.70	.59
14	.66	140	20	3.4	12	19	12	1.9	1.9	1.7	.67	.59
15	.66	25	24	2.0	9.2	14	135	1.9	1.9	1.5	.66	.58
16	.70	170	14	1.8	6.9	9.5	28	1.8	1.8	37	.64	.67
17	1.4	432	8.0	1.6	6.0	8.0	15	1.7	1.7	1.9	.66	.94
18	.90	17	5.9	1.4	5.4	6.0	12	1.7	1.5	1.3	.65	.62
19	1.1	7.4	4.8	1.2	5.0	5.4	10	1.6	1.2	1.1	.70	.59
20	30	4.2	4.7	1.1	113	5.0	8.7	1.6	1.1	.97	.99	.58
21	2.6	2.8	4.1	.96	28	6.9	7.9	1.6	1.9	.91	.86	.59
22	.88	2.5	3.8	.90	213	5.2	6.9	1.6	1.4	.85	.70	.66
23	.84	2.0	3.2	10	76	5.4	6.2	1.6	1.2	.79	.70	2.9
24	.82	1.8	3.0	161	24	6.6	5.7	1.5	5.7	.75	.70	.77
25	.83	20	3.2	417	15	7.1	4.8	6.6	1.2	.74	.67	.70
26	.78	40	2.8	165	11	93	4.5	2.5	1.4	.72	.66	.62
27	.74	17	2.7	280	9.6	208	3.9	1.6	1.5	.71	.65	.58
28	.74	7.0	5.3	165	9.2	50	27	1.6	1.3	.71	.64	.58
29	.75	4.5	5.5	36	---	12	8.8	1.5	1.3	.74	.75	.58
30	.88	3.0	7.0	21	---	8.5	190	1.5	1.2	.70	.66	.58
31	.82	---	2.9	14	---	6.5	---	1.5	---	.73	.69	---
TOTAL	56.86	908.73	769.4	1336.26	688.9	872.6	1106.6	94.2	132.8	105.38	24.11	22.17
MEAN	1.83	30.3	24.8	43.1	24.6	28.1	36.9	3.04	4.43	3.40	.78	.74
MAX	30	432	250	417	213	208	221	20	69	37	2.2	2.9
MIN	.52	.72	2.4	.90	4.8	5.0	3.9	1.5	1.1	.70	.64	.58
CFSM	.13	2.07	1.70	2.95	1.69	1.93	2.53	.21	.30	.23	.05	.05
IN.	.14	2.32	1.96	3.40	1.76	2.22	2.82	.24	.34	.27	.06	.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1994, 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	
MEAN	3.32	14.7	29.6	21.7	39.2	30.9	32.9	16.6	7.54	9.13	2.57	4.54												
MAX	19.4	41.6	105	48.1	160	103	121	58.8	33.9	37.3	13.9	50.1												
(WY)	1986	1989	1983	1974	1989	1975	1973	1983	1975	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	1977	1987	1986	1992	1972	1974	1980	1976												

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1972 - 1994
ANNUAL TOTAL	5629.63	6118.01	
ANNUAL MEAN	15.4	16.8	17.6
HIGHEST ANNUAL MEAN			37.9
LOWEST ANNUAL MEAN			6.53
HIGHEST DAILY MEAN	498	432	1780
LOWEST DAILY MEAN	.44	.52	.09
ANNUAL SEVEN-DAY MINIMUM	.46	.57	.10
INSTANTANEOUS PEAK FLOW		1840	5990
INSTANTANEOUS PEAK STAGE		11.51	15.86
INSTANTANEOUS LOW FLOW			.06
ANNUAL RUNOFF (CFSM)	1.06	1.15	1.20
ANNUAL RUNOFF (INCHES)	14.34	15.59	16.37
10 PERCENT EXCEEDS	26	31	30
50 PERCENT EXCEEDS	2.2	2.2	2.1
90 PERCENT EXCEEDS	.52	.66	.40

OHIO RIVER MAIN STEM

03611500 OHIO RIVER AT METROPOLIS, IL

LOCATION.--Lat 37°08'51", long 88°44'27", McCracken County, Hydrologic Unit 05140206, near center of span on downstream side of pier of Paducah & Illinois Railroad bridge at Metropolis, 9.5 mi downstream from Tennessee River, 37 mi upstream from mouth, and at mile 944.1.

DRAINAGE AREA.--203,000 mi², approximately.

PERIOD OF RECORD.--January 1928 to current year. Prior to April 1928 monthly discharge only, published in WSP 1305. Gage-height records collected 9.6 mi upstream at Paducah since 1890 are contained in reports of National Weather Service. Occasional discharge measurements 1881 to 1924 in reports of Mississippi River Commission.

GAGE.--Water-stage recorder. Datum of gage is 276.27 ft above sea level. Prior to Dec. 22, 1936, water-stage recorders (temporary installations) at Paducah, Ky., Metropolis and Joppa, Ill., and Dam 52. Auxiliary water-stage recorder near Grand Chain, 0.5 mi upstream from Dam 53, and 18 mi downstream from base gage. Prior to May 29, 1936, auxiliary nonrecording gage at Dam 53.

REMARKS.--Estimated daily discharges: Oct. 2, 3, 9-12, 19, Sept. 10, 11, 18, and 23-26. Records fair except those below 100,000 ft³/s and for periods of estimated record, which are poor. Flow regulated by many dams and reservoirs. Maximum daily discharge includes overflow through Bay Creek and Cache River Valleys. 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 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127000	101000	393000	214000	829000	813000	934000	639000	160000	213000	201000	150000
2	120000	107000	399000	210000	839000	840000	929000	614000	137000	217000	196000	141000
3	110000	118000	420000	218000	830000	863000	933000	556000	133000	207000	161000	148000
4	116000	127000	464000	214000	833000	873000	922000	512000	123000	191000	149000	151000
5	106000	138000	485000	220000	847000	866000	929000	472000	104000	192000	154000	159000
6	112000	138000	504000	244000	855000	843000	945000	427000	82100	174000	167000	155000
7	124000	127000	564000	283000	847000	811000	952000	404000	103000	154000	150000	118000
8	112000	144000	591000	317000	829000	792000	945000	395000	133000	115000	152000	134000
9	95000	159000	601000	359000	789000	783000	934000	415000	146000	129000	167000	123000
10	70000	144000	615000	421000	739000	782000	913000	455000	178000	140000	168000	100000
11	75000	137000	632000	462000	721000	807000	903000	482000	167000	137000	138000	80000
12	80000	126000	641000	510000	738000	818000	934000	513000	150000	122000	121000	87500
13	79600	113000	638000	550000	781000	805000	945000	530000	131000	138000	119000	85000
14	85000	121000	618000	559000	819000	798000	926000	550000	130000	164000	106000	95900
15	84100	180000	567000	519000	863000	811000	871000	548000	134000	164000	107000	108000
16	71600	287000	515000	472000	890000	823000	821000	505000	152000	152000	145000	109000
17	91900	389000	454000	459000	903000	842000	741000	433000	162000	126000	154000	98200
18	90200	426000	364000	439000	901000	846000	748000	368000	152000	137000	161000	80000
19	86000	458000	321000	420000	896000	820000	823000	313000	153000	158000	178000	90500
20	84800	473000	314000	367000	900000	806000	892000	278000	144000	145000	189000	89100
21	126000	462000	297000	305000	893000	778000	927000	246000	142000	160000	198000	98100
22	164000	453000	289000	279000	872000	707000	947000	215000	145000	135000	230000	112000
23	165000	471000	286000	284000	837000	633000	961000	179000	138000	120000	254000	82000
24	166000	511000	275000	298000	814000	513000	965000	167000	131000	120000	249000	90000
25	165000	517000	259000	300000	835000	476000	954000	154000	122000	115000	227000	60000
26	157000	503000	252000	350000	849000	473000	949000	146000	126000	139000	219000	68000
27	152000	467000	244000	446000	830000	514000	922000	141000	154000	149000	190000	94900
28	126000	404000	215000	583000	802000	640000	860000	149000	188000	144000	149000	131000
29	132000	401000	201000	700000	---	782000	776000	153000	198000	131000	136000	127000
30	135000	397000	206000	763000	---	865000	690000	151000	199000	157000	131000	124000
31	117000	---	211000	802000	---	908000	---	151000	---	195000	145000	---
TOTAL	3525200	8599000	12835000	12577000	23381000	23731000	26891000	11261000	4317100	4740000	5211000	3289200
MEAN	113700	286600	414000	405700	835000	765500	896400	363300	143900	152900	168100	109600
MAX	166000	517000	641000	802000	903000	908000	965000	639000	199000	217000	254000	159000
MIN	70000	101000	201000	210000	721000	473000	690000	141000	82100	115000	106000	60000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1994, BY WATER YEAR (WY)

	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	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
MEAN	101600	164000	290500	398300	469900	523200	466600	328300	207600	151800	120300	99580																																																							
MAX	335600	450300	717500	1022000	1217000	967300	896400	917800	492800	441200	331100	383500																																																							
(WY)	1980	1986	1973	1937	1937	1945	1994	1983	1928	1928	1958	1979																																																							
MIN	22710	33400	48610	71650	77370	154700	129900	75180	53840	23350	25390	29330																																																							
(WY)	1931	1931	1931	1940	1934	1941	1986	1941	1936	1930	1930	1930																																																							

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1928 - 1994	
ANNUAL TOTAL	109758600		140357500		275000	
ANNUAL MEAN	300700		384500		436600	
HIGHEST ANNUAL MEAN					120300	
LOWEST ANNUAL MEAN					1850000	
HIGHEST DAILY MEAN	823000	Apr 2	965000	Apr 24	1850000	Feb 1 1937
LOWEST DAILY MEAN	47000	Aug 7	60000	Sep 25	15000	Jul 20 1930
ANNUAL SEVEN-DAY MINIMUM	52000	Aug 5	77900	Oct 10	16600	Jul 20 1930
INSTANTANEOUS PEAK FLOW			976000	Apr 23	1850000	Feb 1 1937
INSTANTANEOUS PEAK STAGE			53.46	Apr 21	66.60	Feb 2 1937
10 PERCENT EXCEEDS	598000		861000		635000	
50 PERCENT EXCEEDS	206000		220000		188000	
90 PERCENT EXCEEDS	90000		109000		66700	

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: Jan. 14-23. Records fair except for period of estimated record, which is 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 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	.33	.36	.53	2.1	1.4	1.3	4.9	.22	.12	.16	.21
2	.73	.34	10	.56	1.8	1.3	1.1	2.4	.23	.13	.17	.19
3	.22	.40	120	.49	1.3	1.0	3.6	1.6	.17	.15	.16	.14
4	.11	.41	90	.44	1.3	.81	2.2	1.3	.17	.15	1.6	.14
5	.11	.44	9.9	.29	1.3	.70	38	.93	.18	.26	1.4	1.4
6	.10	.41	3.2	.35	1.1	.60	29	.62	.24	2.1	.11	.16
7	.08	.40	1.6	.31	1.0	.89	4.3	.72	.18	.74	.10	.13
8	.10	.43	1.0	.20	1.1	26	2.6	.54	.20	1.5	.10	.14
9	.11	.39	.94	.18	3.1	12	2.2	.35	.18	.30	.11	.15
10	.11	.39	1.1	.15	2.0	19	63	.25	.17	.11	.14	.15
11	.14	.41	.60	.69	5.4	51	70	.17	.49	.09	.14	.15
12	.13	.46	.44	5.7	8.7	32	74	.13	.15	.11	.15	.14
13	.14	.96	1.8	2.0	4.7	11	5.9	.12	.11	.10	.14	.17
14	.13	79	4.7	1.2	2.5	4.9	3.0	.18	.10	.09	.18	.20
15	.13	5.3	4.9	.72	1.9	3.0	109	.17	.08	.10	.16	.23
16	.15	121	1.8	.62	1.5	1.9	8.2	.13	.08	.19	.16	.29
17	.39	198	1.1	.54	1.2	1.5	3.7	.14	.09	.10	.20	.38
18	.15	3.0	.86	.48	1.1	1.3	2.5	.15	.10	.11	.13	.35
19	.28	1.3	.53	.44	1.0	1.0	1.7	.15	.11	.12	.14	.35
20	8.0	.57	.49	.40	92	.95	1.3	.16	.10	.12	.25	.41
21	1.2	.27	.42	.36	7.7	1.2	1.0	.16	.12	.17	.27	.37
22	.23	.17	.30	.32	169	.80	.91	.16	.12	.13	.23	.46
23	.15	.14	.22	1.5	32	.71	.67	.17	.22	.12	.24	1.6
24	.17	.13	.20	35	6.3	1.1	.53	.17	.40	.12	.21	.51
25	.19	5.7	.24	182	3.4	.97	.44	.21	.13	.13	.16	.54
26	.18	18	.18	43	1.8	52	.43	.25	.28	.15	.17	.13
27	.20	4.4	.20	91	1.5	61	.35	.21	.15	.15	.19	.13
28	.20	1.7	.45	40	1.3	9.8	2.6	.23	.13	.15	.16	.13
29	.21	.89	.46	6.6	---	3.4	1.1	.24	.12	.14	.46	.11
30	.48	.53	.72	3.9	---	2.3	64	.27	.12	.14	.23	.11
31	.37	---	.51	2.5	---	1.6	---	.24	---	.16	.22	---
TOTAL	14.97	445.87	259.22	422.47	359.1	307.23	498.63	17.42	5.14	8.25	8.24	9.57
MEAN	.48	14.9	8.36	13.6	12.8	9.91	16.6	.56	.17	.27	.27	.32
MAX	8.0	198	120	182	169	61	109	4.9	.49	2.1	1.6	1.6
MIN	.08	.13	.18	.15	1.0	.60	.35	.12	.08	.09	.10	.11
CFSM	.07	2.27	1.28	2.08	1.96	1.51	2.54	.09	.03	.04	.04	.05
IN.	.09	2.53	1.47	2.40	2.04	1.74	2.83	.10	.03	.05	.05	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1994, BY WATER YEAR (WY)

	1991	1994	1991	1994	1991	1994	1991	1994	1991	1994	1991	1994
MEAN	.91	5.40	22.8	13.5	14.2	10.6	10.8	6.94	1.57	.25	.24	.92
MAX	1.72	14.9	37.2	13.6	15.6	11.3	16.6	13.3	4.18	.39	.33	2.11
(WY)	1991	1994	1991	1994	1991	1991	1994	1991	1993	1991	1991	1993
MIN	.48	.45	8.36	13.3	12.8	9.91	4.90	.56	.17	.089	.12	.32
(WY)	1994	1991	1994	1991	1994	1994	1991	1994	1994	1993	1993	1994

SUMMARY STATISTICS

FOR 1994 WATER YEAR

WATER YEARS 1991 - 1994

ANNUAL TOTAL	2356.11		
ANNUAL MEAN	6.46	7.37	
HIGHEST ANNUAL MEAN		8.28	1991
LOWEST ANNUAL MEAN		6.46	1994
HIGHEST DAILY MEAN	198	Nov 17	478
LOWEST DAILY MEAN	.08	Oct 1	.05
ANNUAL SEVEN-DAY MINIMUM	.09	Jun 14	.06
INSTANTANEOUS PEAK FLOW	1560	Nov 17	1820
INSTANTANEOUS PEAK STAGE	6.90	Nov 17	8.45
ANNUAL RUNOFF (CFSM)	.99		1.13
ANNUAL RUNOFF (INCHES)	13.38		15.29
10 PERCENT EXCEEDS	7.0		5.0
50 PERCENT EXCEEDS	.40		.38
90 PERCENT EXCEEDS	.12		.11

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. Elevation of gage is 330 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Jan. 15-22, Mar. 22-24, Apr. 19-29, and May 3-9. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	8.4	8.6	7.4	11	9.8	7.4	23	12	3.8	6.7	5.2
2	21	8.2	45	7.5	10	10	7.0	19	12	3.3	6.9	4.6
3	5.2	8.0	255	7.2	9.8	9.5	11	16	9.0	3.7	6.4	2.0
4	4.1	7.4	219	7.2	9.4	9.1	8.3	13	9.3	3.3	10	3.1
5	4.0	7.1	35	7.0	9.5	9.1	86	9.8	10	11	10	18
6	4.1	7.3	13	7.2	9.5	8.9	81	7.8	14	13	6.4	4.2
7	4.4	7.2	9.9	8.4	9.1	9.6	14	8.3	15	10	6.6	3.1
8	4.5	7.1	8.8	8.2	9.3	116	8.9	10	14	13	6.5	3.2
9	5.2	7.0	8.1	8.0	18	51	8.9	9.8	13	8.1	7.8	3.1
10	5.0	7.6	8.1	8.0	15	64	123	8.8	12	7.2	8.0	3.2
11	5.5	7.7	7.9	11	20	125	188	8.4	13	7.1	8.0	3.1
12	5.1	8.1	7.6	26	28	91	159	8.3	7.0	6.8	9.0	3.2
13	5.1	11	10	10	18	36	19	8.2	7.2	6.8	8.2	3.1
14	4.2	179	16	9.0	13	18	11	8.4	7.5	6.3	8.3	3.2
15	4.0	25	17	8.9	11	13	186	8.3	7.6	6.1	8.0	3.2
16	4.1	203	9.9	8.9	10	11	29	8.0	7.8	6.7	7.8	3.2
17	11	359	8.4	8.8	10	11	19	7.9	8.0	6.2	7.3	6.0
18	4.9	18	8.1	8.7	9.6	9.9	16	8.0	7.4	6.2	6.4	4.2
19	7.2	11	8.0	8.6	9.2	9.5	15	8.2	7.4	6.2	6.2	4.5
20	45	9.0	8.2	8.4	198	9.9	14	8.3	7.6	6.3	8.8	4.6
21	11	8.0	7.9	8.2	27	10	13	7.8	7.4	5.6	8.1	7.3
22	7.6	7.5	7.1	8.0	261	9.0	9.8	8.0	7.2	4.4	6.6	8.6
23	7.1	7.4	6.7	13	106	8.0	9.2	7.9	7.9	3.8	6.4	28
24	6.9	8.0	6.4	94	22	7.0	9.2	7.2	9.8	3.6	6.2	16
25	6.8	30	6.7	391	14	6.5	8.9	7.0	5.9	3.9	6.3	12
26	6.8	72	6.5	119	11	69	8.6	7.4	9.1	4.1	6.2	10
27	7.1	18	6.6	230	9.6	156	8.9	6.2	6.1	6.0	6.0	8.8
28	7.5	11	8.8	116	9.3	27	14	5.1	5.8	6.0	6.1	8.4
29	7.9	9.6	8.6	23	---	10	14	5.4	4.5	6.0	14	9.0
30	10	8.9	8.5	15	---	7.9	122	7.8	3.9	6.4	5.0	8.6
31	8.9	---	7.8	13	---	7.8	---	11	---	6.6	4.1	---
TOTAL	245.3	1087.5	793.2	1214.6	897.3	949.5	1229.1	288.3	268.4	197.5	228.3	204.7
MEAN	7.91	36.2	25.6	39.2	32.0	30.6	41.0	9.30	8.95	6.37	7.36	6.82
MAX	4.5	359	255	391	261	156	188	23	15	13	14	28
MIN	4.0	7.0	6.4	7.0	9.1	6.5	7.0	5.1	3.9	3.3	4.1	2.0
CFSM	.53	2.43	1.72	2.63	2.15	2.06	2.75	.62	.60	.43	.49	.46
IN.	.61	2.72	1.98	3.03	2.24	2.37	3.07	.72	.67	.49	.57	.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1994, BY WATER YEAR (WY)

	1991	1992	1993	1994
MEAN	7.34	16.6	43.1	35.8
MAX	8.31	36.2	60.7	39.2
(WY)	1991	1994	1991	1994
MIN	5.79	5.76	25.6	32.4
(WY)	1992	1991	1994	1991

SUMMARY STATISTICS

FOR 1994 WATER YEAR

WATER YEARS 1991 - 1994

ANNUAL TOTAL	7603.7	
ANNUAL MEAN	20.8	20.5
HIGHEST ANNUAL MEAN		20.8
LOWEST ANNUAL MEAN		20.2
HIGHEST DAILY MEAN	391	592
LOWEST DAILY MEAN	2.0	2.0
ANNUAL SEVEN-DAY MINIMUM	3.1	3.1
INSTANTANEOUS PEAK FLOW	1490	1490
INSTANTANEOUS PEAK STAGE	11.70	11.70
ANNUAL RUNOFF (CFSM)	1.40	1.38
ANNUAL RUNOFF (INCHES)	18.98	18.70
10 PERCENT EXCEEDS	27	22
50 PERCENT EXCEEDS	8.3	7.9
90 PERCENT EXCEEDS	4.6	4.4

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: Jan. 14-23, and Apr. 13-27. Records fair except for periods of estimated record, which are poor. Some regulation from Paducah Gaseous Diffusion Plant, 0.4 mi upstream. 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 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.52	2.6	1.4	1.5	2.6	1.6	1.5	12	.91	.82	1.1	.89
2	5.6	2.7	11	1.4	2.1	1.5	1.4	3.3	.89	.84	1.2	.94
3	.70	4.1	77	1.2	1.6	1.4	4.7	1.8	.88	.83	1.1	.84
4	.46	4.6	88	1.2	1.5	1.3	3.3	1.4	.82	.84	1.5	.85
5	.44	4.6	21	1.2	1.5	1.2	29	1.2	.89	2.1	2.7	7.9
6	.41	4.5	6.1	1.3	1.5	1.1	45	1.2	1.2	2.3	1.0	1.4
7	.40	4.9	2.6	1.2	1.2	1.6	8.3	1.3	2.0	1.4	.98	.84
8	.40	4.8	1.8	1.2	1.3	50	3.8	1.2	.83	4.3	.95	.78
9	.50	5.7	1.6	1.1	7.0	24	3.9	1.1	.91	1.4	1.2	1.3
10	.42	5.7	1.7	1.1	5.5	28	54	1.0	.89	.99	1.2	.79
11	.45	5.6	1.4	1.5	7.3	44	74	.99	1.0	.92	1.1	.83
12	.44	5.8	1.3	8.1	13	37	72	.99	1.3	1.4	1.1	.85
13	.39	9.4	2.1	3.0	7.3	18	12	.93	.91	1.0	1.1	.82
14	.43	42	7.0	2.0	3.2	7.9	8.0	1.1	.91	1.0	1.1	.94
15	.47	13	8.3	1.9	2.3	4.2	90	1.0	.92	.94	1.1	.75
16	.47	94	3.4	1.9	1.7	2.1	18	.95	.95	1.1	1.1	.67
17	3.0	195	2.1	1.8	1.5	1.5	5.2	.95	1.0	1.1	1.1	.87
18	.38	7.1	1.6	1.8	1.5	1.4	2.5	.91	1.0	1.0	1.1	.70
19	.98	2.7	1.5	1.7	1.4	1.3	2.4	1.0	.96	.95	1.1	.71
20	16	1.7	1.3	1.7	63	1.9	2.3	.92	.92	.98	1.3	.76
21	3.8	1.4	1.3	1.6	14	2.2	2.2	.90	.79	1.2	1.7	.74
22	1.3	1.3	1.2	1.6	100	1.5	2.1	.88	.91	1.1	1.1	.69
23	1.3	1.3	1.1	4.0	47	1.2	1.9	1.2	.92	1.0	1.1	8.1
24	1.6	1.3	1.1	28	11	1.9	1.7	.97	2.2	1.0	1.0	1.6
25	1.7	8.5	1.1	139	4.4	1.4	1.6	1.0	.94	1.1	1.1	2.2
26	2.0	28	1.1	43	2.5	23	1.6	1.2	1.8	1.1	1.1	.54
27	2.3	10	1.1	81	1.8	80	1.5	.91	.97	1.1	1.1	.56
28	2.5	3.3	2.0	50	1.4	20	6.9	.87	.83	1.4	1.1	.54
29	2.4	2.0	2.1	12	---	5.5	4.0	.85	.81	.96	4.5	.54
30	5.1	1.5	2.3	5.4	---	2.9	111	.87	.82	1.0	1.1	.50
31	3.5	---	1.8	2.9	---	2.2	---	.87	---	1.0	.86	---
TOTAL	60.36	479.1	259.4	406.3	310.1	372.8	575.8	45.76	31.08	38.17	39.89	40.44
MEAN	1.95	16.0	8.37	13.1	11.1	12.0	19.2	1.48	1.04	1.23	1.29	1.35
MAX	16	195	88	139	100	80	111	12	2.2	4.3	4.5	8.1
MIN	.38	1.3	1.1	1.1	1.2	1.1	1.4	.85	.79	.82	.86	.50
CFSM	.34	2.76	1.45	2.27	1.92	2.08	3.32	.26	.18	.21	.22	.23
IN.	.39	3.08	1.67	2.61	2.00	2.40	3.71	.29	.20	.25	.26	.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1994, BY WATER YEAR (WY)

	1991	1992	1993	1994	1991	1992	1993	1994	1991	1992	1993	1994
MEAN	2.14	6.27	20.9	15.5	14.0	10.8	12.4	4.95	1.97	1.00	1.07	1.89
MAX	3.11	16.0	33.5	17.9	17.0	12.0	19.2	8.43	3.69	1.23	1.29	2.98
(WY)	1991	1994	1991	1991	1991	1994	1994	1991	1993	1994	1994	1993
MIN	1.37	1.33	8.37	13.1	11.1	9.48	5.62	1.48	1.04	.82	.96	1.35
(WY)	1992	1992	1994	1994	1994	1991	1991	1994	1994	1991	1991	1994

SUMMARY STATISTICS

FOR 1994 WATER YEAR

WATER YEARS 1991 - 1994

ANNUAL TOTAL	2659.20											
ANNUAL MEAN	7.29									7.84		
HIGHEST ANNUAL MEAN										8.40		1991
LOWEST ANNUAL MEAN										7.29		1994
HIGHEST DAILY MEAN	195									292		Dec 21 1990
LOWEST DAILY MEAN	.38									.38		Oct 18 1993
ANNUAL SEVEN-DAY MINIMUM	.43									.43		Sep 25 1991
INSTANTANEOUS PEAK FLOW	842									842		Nov 17 1993
INSTANTANEOUS PEAK STAGE	8.56									8.56		Nov 17 1993
ANNUAL RUNOFF (CFSM)	1.26									1.36		
ANNUAL RUNOFF (INCHES)	17.11									18.43		
10 PERCENT EXCEEDS	12									10		
50 PERCENT EXCEEDS	1.4									1.1		
90 PERCENT EXCEEDS	.83									.65		

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 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 1993 TO SEPTEMBER 1994

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (FT ³ /S)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED SATURATION (%)	COLIFORM, FECAL, UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CaCO ₃)	CALCIUM DIS-SOLVED (MG/L AS Ca)
OCT 1993												
13...	1051	100000	336	7.9	17.5	15	8.0	83	110	43	140	36
DEC 07...	1234	590000	262	7.6	8.5	56	10.7	91	320	710	130	36
FEB 1994												
03...	1148	832000	239	8.4	2.5	85	15.0	108	150	450	99	29
APR 05...	1117	929000	213	7.4	11.0	43	11.3	103	250	300	84	25
JUN 08...	1132	136000	283	7.7	24.5	17	6.3	--	520	K10	120	33

DATE	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	POTASSIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE WATER FIELD (MG/L AS HCO ₃)	ALKALINITY WAT TOT (MG/L AS CaCO ₃)	ALKALINITY WAT FET (MG/L AS CaCO ₃)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)	SULFATE, DIS-SOLVED (MG/L AS SO ₄)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO ₂)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT 1993											
13...	11	12	3.4	124	102	102	15	39	0.20	5.6	192
DEC 07...	9.2	10	2.8	106	87	86	13	40	0.10	5.7	183
FEB 1994											
03...	6.4	9.4	2.4	79	65	65	13	33	0.10	5.6	360
APR 05...	5.3	6.1	1.7	65	53	53	7.4	31	<0.10	5.2	115
JUN 08...	8.5	8.1	1.8	94	77	77	11	33	0.10	0.93	153

OHIO RIVER MAIN STEM

03612500 OHIO RIVER AT LOCK AND DAM 53, NEAR GRAND CHAIN, IL--Continued
(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 1993											
13...	0.020	1.00	0.070	0.50	0.110	0.060	0.060	30	34	<3	18
DEC											
07...	0.010	1.10	0.070	0.60	0.250	0.060	0.060	40	35	<3	63
FEB 1994											
03...	0.030	0.970	0.130	1.4	0.300	0.050	0.050	--	--	--	--
APR											
05...	0.040	0.710	0.060	0.50	0.150	0.040	0.030	130	35	<3	95
JUN											
08...	0.020	0.670	0.050	0.40	0.060	0.010	<0.010	10	32	<3	5
DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 1993											
13...	<4	1	<10	1	<1	<1.0	140	<6	20	5350	75
DEC											
07...	<4	12	<10	2	<1	<1.0	150	<6	137	219000	73
FEB 1994											
03...	--	--	--	--	--	--	--	--	132	297000	67
APR											
05...	<4	6	<10	1	<1	<1.0	96	<6	119	297000	76
JUN											
08...	5	4	<10	2	<1	<1.0	120	<6	--	--	--

MAYFIELD CREEK BASIN

07023100 MAYFIELD CREEK NEAR BLANDVILLE, KY

LOCATION.--Lat 36°55'56", long 88°56'45", Carlisle County, Hydrologic Unit 08010201, near center of channel at downstream side of bridge on State Highway 121, at the Carlisle/Ballard County line, 1.2 mi southeast of Blandville, 2.8 mi downstream from Wilson Creek, 3.2 mi upstream from West Fork, and at mile 14.5.

DRAINAGE AREA.--295 mi².

PERIOD OF RECORD.--July 1991 to September 1994 (gage heights only) (discontinued). Discharge records for April 1938 to September 1972 published as "at Lovelaceville."

GAGE.--Water-stage recorder. Datum of gage is 311.63 ft above sea level.

REMARKS.--Records good. Stream has been channelized.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 13.67 ft, Apr. 11, 1993; minimum gage height, 5.85 ft (observed), June 21, 1994 (may have been lower). Maximum discharge known at Mayfield Creek at Lovelaceville (07023000), located 6.8 mi upstream, 19,800 ft³/s, January 1937, gage height, 21.1 ft, site and datum then in use.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.30	7.09	---	6.58	8.79	7.13	7.91	9.65	---	---	---	6.20
2	6.46	7.08	---	6.67	8.06	6.83	6.96	8.79	---	---	---	6.20
3	6.52	7.09	---	6.69	7.62	6.82	6.57	7.93	---	---	---	6.22
4	6.42	7.11	---	6.68	7.37	6.54	8.29	6.94	---	---	---	6.24
5	6.38	7.12	---	6.65	7.18	6.42	6.52	---	---	---	---	6.30
6	6.37	7.13	---	6.94	7.04	6.30	8.72	---	---	---	---	6.32
7	6.39	7.12	---	7.29	6.93	6.22	9.88	---	---	---	---	6.37
8	6.41	7.13	9.60	7.27	6.83	6.64	9.86	---	---	---	---	6.36
9	6.49	7.12	8.60	7.25	6.93	7.42	8.31	---	---	---	---	6.67
10	6.53	7.11	8.04	7.29	6.98	8.43	7.66	---	---	6.60	---	6.79
11	6.56	7.12	7.65	7.36	7.59	10.22	9.87	---	---	6.88	---	6.79
12	6.60	7.16	7.44	7.52	8.44	11.01	12.64	---	---	6.51	---	6.77
13	6.63	7.64	7.33	7.52	8.67	10.66	12.34	---	---	---	---	6.71
14	6.65	8.45	7.34	7.56	9.54	9.54	11.41	---	---	---	---	6.66
15	6.65	9.94	7.31	7.60	9.46	8.40	10.59	---	---	---	---	6.61
16	6.69	11.09	7.34	---	8.65	7.44	10.88	---	---	---	---	6.54
17	6.78	12.63	7.43	---	7.94	6.82	11.12	---	---	---	---	6.51
18	6.82	12.85	7.40	---	7.49	6.48	10.23	---	---	---	---	6.52
19	6.87	7.62	7.29	---	7.21	6.29	9.32	---	---	---	---	6.56
20	7.11	7.17	7.19	---	8.13	6.12	9.07	---	---	---	---	6.58
21	7.35	7.22	7.09	---	8.68	---	8.83	---	---	---	---	6.58
22	7.75	7.42	6.94	7.48	10.54	---	8.31	---	---	---	---	6.57
23	8.17	7.67	6.83	7.52	11.74	---	7.74	---	---	---	---	6.75
24	8.07	7.52	6.76	7.95	12.12	---	7.26	---	---	---	---	6.84
25	7.63	7.54	6.71	10.36	10.99	---	6.92	---	---	---	---	6.96
26	7.28	---	6.63	12.85	9.33	6.96	6.70	---	---	---	---	7.02
27	7.09	---	6.57	13.07	8.15	10.25	6.45	---	---	---	---	7.00
28	7.04	---	6.57	12.93	7.51	11.98	6.36	---	---	---	---	6.91
29	7.05	---	6.47	12.57	---	12.34	6.08	---	---	---	---	6.81
30	7.07	---	6.44	11.33	---	10.89	8.51	---	---	---	6.17	6.73
31	7.09	---	6.46	9.97	---	9.22	---	---	---	---	6.15	---
MEAN	6.88	---	---	---	8.43	---	8.64	---	---	---	---	6.60
MAX	8.17	---	---	---	12.12	---	12.64	---	---	---	---	7.02
MIN	6.30	---	---	---	6.83	---	6.08	---	---	---	---	6.20

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: Oct. 21, 22, Nov. 5-7, 15, 18, Dec. 5, 6, Jan. 7-9, 12-22, 24 to Feb. 1, Mar. 5-11, 23, 24, Apr. 8-10, May 1, 20-24, Sept. 29, and 30. Records fair except for periods of estimated record, which are poor. Maximum gage height affected by backwater from the Mississippi River. 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 1993 TO SEPTEMBER 1994--DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	20	40	39	52	55	47	56	25	18	15	22
2	27	19	73	39	51	53	48	41	24	18	15	22
3	25	21	491	36	47	47	73	35	26	18	15	18
4	22	21	1440	37	46	46	57	33	26	18	18	17
5	20	22	1000	31	45	44	271	32	27	18	41	19
6	20	20	110	32	41	42	312	32	26	36	17	20
7	20	19	60	35	40	40	78	40	25	72	16	18
8	20	21	49	30	40	76	52	37	101	82	16	17
9	20	21	46	28	186	280	42	30	53	23	16	17
10	20	20	50	29	78	340	550	29	22	18	16	17
11	21	20	43	35	204	330	1200	27	21	17	16	17
12	20	23	39	70	324	160	1210	26	20	17	16	17
13	21	105	43	50	184	94	542	26	19	18	16	17
14	22	397	58	40	95	72	98	28	18	21	16	17
15	21	550	49	36	70	60	501	35	18	18	16	16
16	24	318	43	34	56	48	193	29	18	18	16	16
17	24	1430	39	32	48	44	86	26	25	20	16	22
18	22	390	37	30	44	43	60	26	18	17	16	19
19	31	73	36	29	43	40	46	25	17	16	17	17
20	313	54	36	28	444	40	41	24	17	16	17	16
21	52	48	35	27	161	40	38	23	17	17	18	16
22	25	44	34	26	492	36	34	22	17	17	17	17
23	20	43	32	110	974	34	32	22	17	16	17	36
24	20	43	32	500	160	32	31	21	47	16	17	24
25	19	84	32	840	84	37	31	26	20	16	17	40
26	19	143	31	520	58	105	41	28	76	15	17	27
27	19	77	31	1000	53	1170	30	26	29	15	17	25
28	19	53	51	800	50	1290	182	25	20	15	17	24
29	19	44	48	400	---	189	55	25	19	15	19	23
30	22	41	41	200	---	71	173	25	18	16	18	22
31	21	---	36	100	---	53	---	26	---	15	17	---
TOTAL	987	4184	4185	5243	4170	5011	6154	906	826	672	538	615
MEAN	31.8	139	135	169	149	162	205	29.2	27.5	21.7	17.4	20.5
MAX	313	1430	1440	1000	974	1290	1210	56	101	82	41	40
MIN	19	19	31	26	40	32	30	21	17	15	15	16
CFSM	.46	2.03	1.97	2.46	2.17	2.35	2.99	.43	.40	.32	.25	.30
IN.	.53	2.27	2.27	2.84	2.26	2.71	3.33	.49	.45	.36	.29	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1994, BY WATER YEAR (WY)

MEAN	32.7	83.2	131	157	190	217	141	99.5	67.2	56.9	39.1	34.6
MAX	165	520	557	586	672	1138	335	470	418	397	206	268
(WY)	1985	1958	1991	1950	1989	1975	1970	1978	1976	1976	1977	1977
MIN	7.27	9.41	12.1	12.7	16.2	14.2	18.6	12.1	11.7	10.7	9.43	8.74
(WY)	1944	1944	1944	1944	1941	1941	1886	1969	1952	1943	1953	1941

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1940 - 1994	
ANNUAL TOTAL	30628	33491		
ANNUAL MEAN	83.9	91.8	104	
HIGHEST ANNUAL MEAN			268	1976
LOWEST ANNUAL MEAN			18.7	1941
HIGHEST DAILY MEAN	1900	1440	7150	Jan 2 1966
LOWEST DAILY MEAN	16	15	4.0	May 29 1943
ANNUAL SEVEN-DAY MINIMUM	16	15	4.7	Jun 20 1942
INSTANTANEOUS PEAK FLOW		1790	9460	Jan 2 1966
INSTANTANEOUS PEAK STAGE		14.54	16.22	Mar 12 1965
ANNUAL RUNOFF (CFSM)	1.22	1.34	1.51	
ANNUAL RUNOFF (INCHES)	16.58	18.13	20.52	
10 PERCENT EXCEEDS	135	185	190	
50 PERCENT EXCEEDS	37	30	22	
90 PERCENT EXCEEDS	18	17	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 1994

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						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†, 1993-94	02-11-94	86.95	10,800
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†, 1993-94	03-28-94	16.05	20,700

See footnote at end of table.

Annual maximum discharge at crest-stage partial-record stations during water year 1994--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†, 1993-94	03-28-94	15.36	3,300
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†, 1993-94	03-13-94	99.28	2,940
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†, 1993-94	02-11-94	11.01	6,240
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†, 1993-94	03-28-94	24.13	5,970

† Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Special study and miscellaneous sites

Discharge measurements in the following table were made at special study and miscellaneous sites throughout the State.

Discharge measurements made at special study and miscellaneous sites during water year 1994

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
BIG SANDY RIVER BASIN						
03207965 Grapevine Creek	Levisa Fork	Lat 37°25'57", long 82°21'14", Pike County, 1.3 mi downstream from Dicks Fork, 1.3 mi southwest of Phyllis, and at mile 1.1.	6.20	1974-82†, 1989-92†, 1993-94	10-13-93	1.13
					12-07-93	5.56
					3-16-94	8.90
					3-31-94	26.9
					5-10-94	15.0
					6-28-94	2.38
8-22-94	7.09					
03210000 Johns Creek	Levisa Fork	Lat 37°34'01", long 82°27'29", Pike County, at bridge on U.S. Highway 119, 1.2 mi southwest of Meta, and at mile 42.7.	56.3	1941-93†, 1994	10-13-93	11.6
					11-30-93	25.7
					3-15-94	143
					3-31-94	296
					5-10-94	133
					5-25-94	22.5
					6-28-94	15.9
8-22-94	68.6					
LICKING RIVER BASIN						
03248500 Licking River	Ohio River	Lat 37°45'03", long 83°05'04", Magoffin County, at bridge on State Highway 30, 1.2 mi west of Salyersville, and at mile 266.9.	140	1939-92†, 1993-94	10-07-92	19.6
					2-03-93	76.4
					4-06-93	399
					5-12-93	52.1
					6-02-93	28.2
					7-13-93	21.2
					9-08-93	21.7
					10-12-93	51.3
					11-26-93	96.8
					3-04-94	807
					4-14-94	516
5-17-94	110					
7-26-94	17.6					

See footnotes at end of table.

Discharge measurements made at special study and miscellaneous sites during water year 1994--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
KENTUCKY RIVER BASIN						
03280600	Kentucky Middle Fork River	Lat 37°08'13", long 83°22'17", Leslie County, 0.4 mi downstream from Munsey Creek, 1.7 mi south of Hyden, and at mile 76.1.	202	1958-92†, 1993‡, 1994	4-13-94	5,390
03284750	Kentucky Dix River	Lat 37°27'27", long 84°28'41", Lincoln County, at bridge on unmarked road, 0.6 mi below Copper Creek, 0.8 mi above Flax Creek, 1.6 mi east of Crab Orchard, at at mile 72.6.	70.5	1973-76, 1988, 1994	6-20-94 7-12-94 8-18-94	2.93 1.21 1.96
GREEN RIVER BASIN						
03316000	Green Mud River	Lat 37°00'15", long 86°54'26", Logan County, at bridge on State Highway 106, 2.5 mi northwest of Lewisburg, and 7.5 mi downstream from Motts Lick Creek.	90.5	1940-72†, 1978, 1980, 1988, 1990-94	12-07-93 6-22-94	287 10
03316275	Green Mud River	Lat 37°07'24", long 86°54'02", Butler County, at bridge on State Highway 949, 2.9 mi southwest of Huntsville, and at mile 17.1.	268	1974, 1978, 1980, 1992-93†, 1994‡	10-07-92 11-09-92 12-22-92 2-08-93 3-24-93 5-04-93 6-22-93 8-09-93 10-07-93 12-06-93 1-24-94 1-28-94 2-24-94 3-15-94 4-25-94 6-21-94	19.1 41.9 260 101 865 947 37.2 16.4 12.5 1,220 193 3,190 3,890 1,370 212 32.7

† Operated as a continuous-record gaging station.

‡ Gage heights only.