



Water Resources Data Kentucky Water Year 1997



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT KY-97-1
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KENTUCKY RIVER BASIN

03277400 LEATHERWOOD CREEK AT DAISY, KY

LOCATION.--Lat 37°06'48", long 83°05'33", Perry County, on right bank on downstream side of bridge, at mouth of Hicks Branch, at Daisy, 0.6 mi upstream from Little Leatherwood Creek, and 1.2 mi upstream from mouth.

DRAINAGE AREA.--40.9 mi², includes that of Hicks Branch.

PERIOD OF RECORD.--October 1964 to September 1974. October 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 938.64 ft above sea level.

REMARKS.--Estimated daily discharges: Jan. 10-15, 17-21, Mar. 8-18, 21-28, and Mar. 31 to Apr. 17. Records good except for periods of estimated record, which are poor.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	13	727	51	90	102	140	84	60	161	8.5	5.4
2	130	14	238	49	75	310	100	70	48	78	8.1	5.3
3	67	13	140	44	65	1850	90	77	54	55	8.7	5.2
4	30	12	92	40	98	423	80	67	71	41	8.8	6.4
5	23	11	76	121	181	357	70	59	50	35	9.7	4.5
6	18	9.9	67	98	128	358	60	55	40	30	6.9	5.0
7	16	9.7	61	74	102	225	50	47	35	26	6.6	4.7
8	14	456	54	62	127	180	44	43	31	22	7.5	4.9
9	12	119	48	98	115	115	40	48	28	36	7.6	7.6
10	11	65	42	87	99	110	34	40	24	26	8.0	8.1
11	9.6	44	40	78	85	90	32	35	22	20	7.0	7.0
12	8.4	32	47	66	74	75	40	35	30	19	5.7	7.0
13	7.9	27	50	58	65	70	35	45	44	18	5.6	4.5
14	7.4	25	44	52	61	72	32	40	216	17	9.0	4.8
15	6.8	22	42	49	55	60	30	40	126	15	7.7	5.0
16	6.3	20	40	167	48	52	29	34	69	14	8.0	5.3
17	6.5	19	45	105	43	50	34	32	174	14	6.9	4.0
18	36	93	38	87	39	100	30	31	126	13	14	4.5
19	28	113	36	72	36	540	33	31	73	13	8.9	5.3
20	18	68	32	61	34	281	31	86	101	12	32	9.3
21	14	376	29	52	38	200	36	51	97	11	13	15
22	11	232	30	55	42	140	32	37	61	20	7.4	6.1
23	21	110	31	64	37	100	57	31	48	24	6.4	4.5
24	19	71	69	97	34	90	85	28	38	16	7.3	7.7
25	13	61	72	158	32	80	69	38	34	13	6.9	7.6
26	13	91	63	114	53	90	61	414	61	13	7.0	5.0
27	14	70	56	89	88	75	59	225	69	12	6.2	3.9
28	13	62	49	590	91	70	67	121	44	12	6.7	5.3
29	14	54	59	250	---	374	88	89	68	9.7	5.9	8.0
30	13	412	58	156	---	221	72	71	103	9.7	5.6	5.2
31	13	---	57	114	---	180	---	59	---	8.9	5.8	---
TOTAL	626.9	2724.6	2532	3258	2035	7040	1660	2163	2045	814.3	263.4	182.1
MEAN	20.2	90.8	81.7	105	72.7	227	55.3	69.8	68.2	26.3	8.50	6.07
MAX	130	456	727	590	181	1850	140	414	216	161	32	15
MIN	6.3	9.7	29	40	32	50	29	28	22	8.9	5.6	3.9
CFSM	.49	2.22	2.00	2.57	1.78	5.55	1.35	1.71	1.67	.64	.21	.15
IN.	.57	2.48	2.30	2.96	1.85	6.40	1.51	1.97	1.86	.74	.24	.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1997, BY WATER YEAR (WY)

MEAN	17.1	36.5	77.6	97.8	92.9	145	102	74.9	33.1	18.2	17.4	12.2
MAX	65.1	135	182	256	241	259	205	182	149	102	47.2	59.2
(WY)	1965	1974	1973	1974	1994	1973	1972	1971	1974	1973	1992	1974
MIN	3.29	3.23	1.75	4.06	22.2	32.0	42.9	12.4	4.06	1.19	2.50	1.59
(WY)	1966	1966	1966	1966	1968	1966	1995	1969	1966	1970	1970	1969

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1965 - 1997

ANNUAL TOTAL	26140.6	25344.3	
ANNUAL MEAN	71.4	69.4	60.2
HIGHEST ANNUAL MEAN			108
LOWEST ANNUAL MEAN			22.7
HIGHEST DAILY MEAN	727	Dec 1	1850
LOWEST DAILY MEAN	3.3	Sep 24	3.9
ANNUAL SEVEN-DAY MINIMUM	3.6	Sep 20	4.8
INSTANTANEOUS PEAK FLOW			5490
INSTANTANEOUS PEAK STAGE			11.30
INSTANTANEOUS LOW FLOW			.14
ANNUAL RUNOFF (CFSM)	1.75	1.70	1.47
ANNUAL RUNOFF (INCHES)	23.78	23.05	20.00
10 PERCENT EXCEEDS	149	126	131
50 PERCENT EXCEEDS	45	41	22
90 PERCENT EXCEEDS	6.7	7.0	3.0

KENTUCKY RIVER BASIN

03280000 NORTH FORK KENTUCKY RIVER AT JACKSON, KY

LOCATION.--Lat 37°32'46", long 83°22'21", Breathitt County, Hydrologic Unit 05100201, on left bank at city water plant on Armory Drive at Jackson, 2.8 mi downstream from Quicksand Creek, and at mile 305.0.

DRAINAGE AREA.--1,101 mi².

PERIOD OF RECORD.--June 1928 to September 1931, December 1936 to February 1937, April 1938 to current year. Gage-height records collected at same site during periods 1904-07, 1921-31, and February to December 1934 (above 8.0 ft only), January 1935 to September 1976 are published in reports of National Weather Service.

REVISED RECORDS.--WSP 853: 1929(M). WSP 1335: 1928(M), 1929, 1931(M). WSP 1435: 1954-55. WSP 1505: 1948. WSP 1555: Drainage area. GAGE.--Water-stage recorder. Datum of gage is 697.67 ft above sea level. See WDR KY-90-1 for history of changes prior to Aug. 22, 1980.

REMARKS.--Estimated daily discharges: Dec. 20-23 and Jan. 11-15, 17-20. Records good except for period of estimated record, which is poor. Small diversions by city of Jackson waterworks. Flow regulated by Carr Fork Lake (station 03277446) beginning January 1976.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	549	368	11600	1510	2540	2110	3360	1250	1360	1750	225	134
2	1080	349	11000	1430	1960	6310	2830	1230	1220	1880	203	119
3	3370	341	4410	1340	1600	15200	2400	1110	1460	1220	188	118
4	2370	325	3180	1220	1670	21300	2090	1120	1380	873	174	120
5	1220	308	2550	1320	3420	12000	1860	1010	1510	636	226	117
6	913	291	2200	1910	3760	9250	1730	898	1070	554	245	110
7	755	294	1750	1820	3080	6600	1620	824	840	483	204	102
8	598	4740	1410	1580	2930	4610	1310	739	890	420	194	96
9	367	6520	1250	1490	3230	3670	1080	706	1580	380	161	111
10	310	3130	1080	1840	2890	3230	983	711	1960	373	150	239
11	308	2020	947	1700	2430	2880	928	660	1370	388	150	267
12	293	1370	899	1430	2040	2490	914	575	1060	334	145	202
13	276	1000	866	1250	1790	2210	972	537	1050	312	150	203
14	255	820	886	1100	1660	1940	981	551	3140	289	291	180
15	240	713	805	1090	1510	1770	855	618	3960	271	332	141
16	230	632	768	1980	1350	1460	785	578	2470	251	218	114
17	220	574	801	2440	1190	1240	758	503	7330	229	186	95
18	246	1140	830	2040	1080	1280	746	452	6740	215	203	92
19	584	2610	758	1850	999	4180	716	419	3830	207	425	100
20	618	2460	645	1650	951	8210	698	469	2630	203	516	120
21	459	2140	535	1460	930	4780	693	945	2030	192	678	228
22	354	6210	555	1280	1050	3440	715	864	1670	249	498	203
23	327	3980	630	1780	1050	2560	740	610	1170	1000	361	166
24	353	2400	969	1910	933	1990	902	488	838	989	247	162
25	352	1790	1550	2530	863	1700	1300	442	690	667	192	161
26	350	2330	1640	2570	864	1930	1120	1450	641	488	170	154
27	357	2430	1480	2150	1140	1950	968	5070	890	393	157	151
28	367	2070	1300	4610	1460	1740	952	3100	986	342	161	144
29	389	1630	1260	7180	---	3450	1040	2830	696	343	162	143
30	388	2050	1410	4260	---	5020	1440	2010	1030	315	154	154
31	373	---	1500	3170	---	3900	---	1620	---	269	141	---
TOTAL	18871	57035	61464	64890	50370	144400	37486	34389	57491	16515	7507	4446
MEAN	609	1901	1983	2093	1799	4658	1250	1109	1916	533	242	148
MAX	3370	6520	11600	7180	3760	21300	3360	5070	7330	1880	678	267
MIN	220	291	535	1090	863	1240	693	419	641	192	141	92
CFSM	.55	1.73	1.80	1.90	1.63	4.23	1.13	1.01	1.74	.48	.22	.13
IN.	.64	1.93	2.08	2.19	1.70	4.88	1.27	1.16	1.94	.56	.25	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1997, BY WATER YEAR (WY)

	542	975	1714	2052	2652	2811	2201	1903	1047	461	417	312
MEAN	542	975	1714	2052	2652	2811	2201	1903	1047	461	417	312
MAX	4189	3019	4649	5168	6392	7268	4479	7189	4166	1200	945	1154
(WY)	1990	1986	1992	1979	1994	1994	1994	1984	1989	1992	1977	1989
MIN	92.8	152	196	155	790	541	452	614	136	90.2	85.6	83.0
(WY)	1981	1982	1981	1981	1988	1988	1986	1977	1988	1988	1988	1983

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1977 - 1997
ANNUAL TOTAL	622036	554864	
ANNUAL MEAN	1700	1520	1418
HIGHEST ANNUAL MEAN			2570
LOWEST ANNUAL MEAN			477
HIGHEST DAILY MEAN	11600	Dec 1	52200
LOWEST DAILY MEAN	128	Sep 3	26
ANNUAL SEVEN-DAY MINIMUM	147	Aug 29	30
INSTANTANEOUS PEAK FLOW		21700	53500
INSTANTANEOUS PEAK STAGE		27.65	43.10
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (CFSM)	1.54	1.38	1.29
ANNUAL RUNOFF (INCHES)	21.02	18.75	17.50
10 PERCENT EXCEEDS	3760	3200	3200
50 PERCENT EXCEEDS	1210	952	667
90 PERCENT EXCEEDS	235	184	129

KENTUCKY RIVER BASIN

03280700 CUTSHIN CREEK AT WOOTON, KY

LOCATION.--Lat 37°9'54", long 83°18'29", Leslie County, Hydrologic Unit 05100202, on right bank 15 ft downstream from bridge on State Highway 80, 400 ft upstream from Poundmill Branch, 600 ft upstream from Rockhouse Branch, 0.7 mi downstream from Saw Branch, 1.0 mi southwest of Wooton, and at mile 10.7.

DRAINAGE AREA.--61.3 mi².

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 869.84 ft above sea level. Prior to Dec. 26, 1957, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Dec. 19, 20, and Jan. 10-14, 17-21. Records good except for period of estimated record, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1957 reached a stage of 19.43 ft, from floodmarks.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	32	1190	98	119	167	169	166	104	177	6.5	3.0
2	209	30	397	91	95	588	135	122	80	86	6.2	3.0
3	131	26	245	82	81	2420	113	124	87	53	6.0	3.2
4	57	24	166	72	197	531	98	97	106	39	12	3.4
5	38	24	135	163	328	672	88	83	76	33	11	3.2
6	29	25	113	139	224	570	81	76	62	26	7.0	2.9
7	24	100	96	115	166	301	68	64	62	23	6.0	3.3
8	22	997	83	91	195	207	60	60	54	21	5.8	3.3
9	20	237	72	140	178	155	54	59	55	24	5.8	4.6
10	18	144	66	130	153	136	49	50	45	24	5.8	6.0
11	17	99	64	100	122	108	48	44	43	19	5.5	4.8
12	18	74	67	84	102	90	60	41	44	17	5.0	3.3
13	16	62	65	74	88	82	57	45	96	16	6.0	3.0
14	17	57	58	65	80	84	46	46	408	15	8.3	2.7
15	15	50	57	97	68	68	44	44	244	13	6.2	2.7
16	14	45	57	237	60	62	42	36	136	12	5.3	2.8
17	14	47	65	150	53	59	43	33	326	11	5.9	3.0
18	87	205	57	120	50	146	40	32	285	10	17	3.0
19	55	232	50	98	49	965	43	37	159	10	18	2.8
20	34	149	38	84	46	404	39	140	120	9.5	35	4.8
21	27	637	46	68	52	236	48	77	94	9.0	11	9.1
22	24	390	51	80	53	168	45	60	61	22	6.7	4.7
23	39	198	50	88	42	121	69	51	47	15	5.3	3.5
24	32	135	100	161	39	99	108	44	37	12	4.3	4.5
25	27	120	109	235	38	93	96	55	33	12	4.0	5.9
26	28	146	103	171	71	102	84	591	55	9.2	4.7	4.6
27	27	126	95	154	104	85	86	362	55	7.9	4.6	3.8
28	27	114	83	842	113	83	183	267	31	7.9	4.1	3.7
29	30	98	90	356	---	410	276	242	91	7.8	3.7	3.9
30	31	1450	94	221	---	278	176	176	149	7.6	3.6	5.0
31	30	---	108	160	---	220	---	125	---	6.8	3.3	---
TOTAL	1178	6073	4070	4766	2966	9710	2548	3449	3245	755.7	239.6	117.5
MEAN	38.0	202	131	154	106	313	84.9	111	108	24.4	7.73	3.92
MAX	209	1450	1190	842	328	2420	276	591	408	177	35	9.1
MIN	14	24	38	65	38	59	39	32	31	6.8	3.3	2.7
CFSM	.62	3.30	2.14	2.51	1.73	5.11	1.39	1.81	1.76	.40	.13	.06
IN.	.71	3.69	2.47	2.89	1.80	5.89	1.55	2.09	1.97	.46	.15	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1997, BY WATER YEAR (WY)

MEAN	28.3	65.4	113	147	171	204	158	117	57.3	32.4	24.0	18.5
MAX	287	309	359	597	371	620	428	449	423	144	107	125
(WY)	1990	1978	1973	1974	1994	1975	1977	1983	1989	1958	1966	1974
MIN	.26	6.64	3.30	6.97	27.0	21.4	16.6	14.0	3.17	2.17	1.16	.73
(WY)	1964	1966	1966	1981	1968	1988	1963	1964	1988	1970	1988	1969

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1958 - 1997

ANNUAL TOTAL	41921.0	39117.8	
ANNUAL MEAN	115	107	94.4
HIGHEST ANNUAL MEAN			212
LOWEST ANNUAL MEAN			27.6
HIGHEST DAILY MEAN	1450	2420	4890
LOWEST DAILY MEAN	6.0	2.7	.00
ANNUAL SEVEN-DAY MINIMUM	6.4	2.9	.01
INSTANTANEOUS PEAK FLOW		6270	14200
INSTANTANEOUS PEAK STAGE		10.30	16.23
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (CFSM)	1.87	1.75	1.54
ANNUAL RUNOFF (INCHES)	25.44	23.74	20.93
10 PERCENT EXCEEDS	237	220	205
50 PERCENT EXCEEDS	70	58	34
90 PERCENT EXCEEDS	9.7	5.2	2.9

KENTUCKY RIVER BASIN

03281000 MIDDLE FORK KENTUCKY RIVER AT TALLEGA, KY

LOCATION.--Lat 37°33'18", long 83°35'38", Lee County, Hydrologic Unit 05100202, on left bank 100 ft downstream of bridge on State Highway 708, 150 ft upstream from Lynam Creek, 0.5 mi southwest of Tallega, 8.3 mi upstream from confluence with North Fork, and at mile 8.3.

DRAINAGE AREA.--537 mi².

PERIOD OF RECORD.--October 1930 to March 1932, October 1939 to current year.

REVISED RECORDS.--WSP 1113: 1931, 1940. WSP 1385: 1931-32, 1948, drainage area. WSP 1505: 1946(M), 1951(M).

GAGE.--Water-stage recorder. Datum of gage is 642.13 ft above sea level. Prior to Feb. 6, 1940, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges July 18-27. Records good except for period of estimated record, which is fair. Flow regulated by Buckhorn Lake beginning December 1960 (station 03280800).

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	419	382	3240	1340	2700	2040	2130	117	805	738	73	55
2	1130	353	3010	1350	2030	3330	1890	127	867	750	72	55
3	1060	442	3050	1040	1450	5160	1240	312	1500	550	72	55
4	1070	402	3180	544	925	4570	898	516	1340	307	73	56
5	677	388	3440	1070	1590	3140	871	546	1120	211	70	56
6	311	362	3410	802	2570	3680	878	876	877	129	61	55
7	283	361	3450	1800	2690	3780	634	501	648	121	56	55
8	315	2320	3310	1170	1790	3920	562	573	864	118	56	55
9	283	3200	3000	1110	1890	3720	264	393	956	139	56	63
10	274	3160	1220	959	1830	2840	167	338	822	180	56	128
11	235	3420	907	1240	1630	3510	157	330	574	146	56	88
12	342	1560	790	1210	1220	3510	153	323	562	134	56	65
13	267	472	591	713	957	3570	152	191	550	130	58	59
14	187	442	404	707	912	2320	140	164	1580	125	80	57
15	155	754	427	523	645	3380	131	392	2780	123	101	56
16	155	904	424	1050	610	3390	127	235	2970	120	65	56
17	153	898	482	1610	595	3400	127	190	3260	110	59	55
18	177	1280	503	1430	484	3290	126	190	2700	90	57	51
19	337	1610	591	1360	458	2470	125	188	2900	70	64	52
20	408	2130	471	1250	445	3400	116	207	2750	60	137	53
21	396	2230	359	1120	444	3760	112	502	733	60	143	104
22	394	2700	306	823	504	3570	114	557	686	60	213	80
23	591	3480	337	922	597	3370	115	385	651	70	154	61
24	620	3450	700	1240	495	3060	116	269	626	200	83	60
25	606	3360	937	1510	455	1510	114	191	398	250	61	60
26	601	2330	1030	2500	463	1480	107	488	332	180	67	57
27	612	1690	1140	2520	609	1250	107	2490	360	100	60	56
28	604	1470	687	2750	965	1070	117	3170	328	86	54	55
29	361	1150	928	3220	---	1500	117	3600	325	77	49	55
30	420	1540	836	3670	---	2530	115	2590	445	77	53	56
31	441	---	855	3520	---	2740	---	1840	---	74	55	---
TOTAL	13884	48240	44015	46073	31953	94260	12022	22791	35309	5585	2370	1869
MEAN	448	1608	1420	1486	1141	3041	401	735	1177	180	76.5	62.3
MAX	1130	3480	3450	3670	2700	5160	2130	3600	3260	750	213	128
MIN	153	353	306	523	444	1070	107	117	325	60	49	51
CFSM	.83	2.99	2.64	2.77	2.13	5.66	.75	1.37	2.19	.34	.14	.12
IN.	.96	3.34	3.05	3.19	2.21	6.53	.83	1.58	2.45	.39	.16	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1997, BY WATER YEAR (WY)

MEAN	327	610	977	1319	1468	1715	1153	933	482	214	176	177
MAX	2225	1715	2826	3320	3634	3672	3280	2762	2599	687	623	784
(WY)	1990	1978	1973	1974	1994	1994	1994	1971	1989	1992	1992	1989
MIN	47.5	148	45.5	56.8	270	241	98.7	57.9	49.1	43.6	45.0	45.9
(WY)	1989	1961	1966	1981	1968	1988	1986	1986	1988	1988	1988	1987

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1961 - 1997	
	ANNUAL TOTAL	384035		358371		
ANNUAL MEAN	1049		982		793	
HIGHEST ANNUAL MEAN					1492	1994
LOWEST ANNUAL MEAN					267	1988
HIGHEST DAILY MEAN	4700	May 29	5160	Mar 3	10300	Feb 27 1962
LOWEST DAILY MEAN	59	Sep 3	49	Aug 29	11	Sep 27 1981
ANNUAL SEVEN-DAY MINIMUM	75	Sep 2	54	Aug 28	12	Nov 9 1991
INSTANTANEOUS PEAK FLOW			6750	Mar 3	52700	Jan 30 1957
INSTANTANEOUS PEAK STAGE			21.18	Mar 3	43.33	Jan 30 1957
INSTANTANEOUS LOW FLOW					.10	Oct 12 1953
ANNUAL RUNOFF (CFSM)	1.95		1.83		1.48	
ANNUAL RUNOFF (INCHES)	26.60		24.83		20.07	
10 PERCENT EXCEEDS	3040		3150		2550	
50 PERCENT EXCEEDS	590		502		304	
90 PERCENT EXCEEDS	117		60		66	

KENTUCKY RIVER BASIN

03281040 RED BIRD RIVER NEAR BIG CREEK, KY

LOCATION.--Lat 37°10'43", long 83°35'35" Clay County, Hydrologic Unit 05100203, on right bank adjacent to State Highway 66, 0.1 mi upstream from Fish Trap Branch, 0.6 mi downstream from Britton Branch, 1.2 mi downstream from Big Creek, 1.7 mi northwest of Big Creek, and at mile 58.9.

DRAINAGE AREA.--155 mi².

PERIOD OF RECORD.--August 1972 to current year.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 815.74 ft above sea level.

REMARKS.--Estimated daily discharges: Dec. 19-22, Dec. 27 to Jan. 14, and Jan. 17-21. Records good except for periods of estimated record, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of 1947 and 1957 reached a stage of 29.27 ft and 27.60 ft, respectively, from floodmarks.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	33	6640	510	394	528	504	437	203	163	8.3	9.8
2	286	36	1480	420	298	2210	407	366	158	132	6.6	7.5
3	403	33	820	320	241	6620	338	380	464	93	5.6	7.4
4	138	26	532	240	576	1830	288	323	250	71	6.6	5.6
5	77	23	387	260	1170	1760	252	273	172	61	6.8	3.6
6	50	22	329	280	800	2140	231	240	131	48	4.8	3.0
7	35	42	265	270	569	1010	196	191	114	39	3.1	3.3
8	25	3840	223	230	583	674	164	165	108	33	2.8	3.1
9	20	906	185	250	574	490	145	161	102	33	6.5	16
10	17	479	159	260	483	453	130	140	87	95	9.3	26
11	14	293	156	240	386	371	125	118	73	54	7.3	14
12	10	201	145	200	306	312	137	108	68	33	7.2	9.5
13	7.8	155	140	160	260	276	173	101	78	26	15	5.6
14	6.7	133	125	180	236	272	139	112	865	22	21	3.8
15	6.2	112	120	200	195	232	123	113	1040	19	13	3.2
16	5.3	97	117	760	161	190	118	87	498	14	12	3.1
17	4.5	93	137	545	146	175	117	77	591	12	9.8	4.4
18	101	652	144	410	131	358	112	72	841	10	45	4.7
19	210	1050	130	315	126	3020	113	78	515	8.8	61	4.7
20	77	575	105	250	123	1530	119	251	503	14	168	11
21	50	1980	90	180	129	789	120	194	386	21	95	11
22	35	1600	115	233	163	549	161	138	246	14	39	12
23	48	715	125	408	136	394	155	110	177	172	21	12
24	83	441	309	590	125	305	160	95	136	70	12	13
25	56	337	484	1340	91	260	157	100	112	34	10	11
26	48	506	392	798	151	334	148	653	155	22	12	14
27	47	402	341	563	370	289	148	686	224	15	11	10
28	38	334	280	2890	449	276	166	394	122	15	13	8.9
29	38	275	310	1300	---	1270	662	323	95	24	68	11
30	39	1530	370	761	---	876	462	282	131	27	28	8.9
31	35	---	520	540	---	659	---	211	---	12	13	---
TOTAL	2052.5	16921	15675	15903	9372	30452	6270	6979	8645	1406.8	741.7	261.1
MEAN	66.2	564	506	513	335	982	209	225	288	45.4	23.9	8.70
MAX	403	3840	6640	2890	1170	6620	662	686	1040	172	168	26
MIN	4.5	22	90	160	91	175	112	72	68	8.8	2.8	3.0
CFSM	.43	3.64	3.26	3.31	2.16	6.34	1.35	1.45	1.86	.29	.15	.06
IN.	.49	4.06	3.76	3.82	2.25	7.31	1.50	1.67	2.07	.34	.18	.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1997, BY WATER YEAR (WY)

MEAN	89.4	242	390	468	513	615	421	344	171	81.6	50.4	39.3
MAX	758	796	1180	1150	1244	1678	954	1176	998	351	192	138
(WY)	1990	1978	1991	1974	1994	1975	1977	1984	1989	1992	1990	1979
MIN	3.93	7.84	37.5	19.0	164	99.6	60.9	41.2	10.3	5.28	2.51	1.81
(WY)	1979	1988	1981	1981	1988	1988	1986	1986	1988	1988	1988	1983

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1973 - 1997	
ANNUAL TOTAL	129602.5		114679.1			
ANNUAL MEAN	354		314		284	
HIGHEST ANNUAL MEAN					513	
LOWEST ANNUAL MEAN					92.2	
HIGHEST DAILY MEAN	6640	Dec 1	6640	Dec 1	16200	May 7 1984
LOWEST DAILY MEAN	4.5	Oct 17	2.8	Aug 8	.20	Oct 4 1983
ANNUAL SEVEN-DAY MINIMUM	7.8	Oct 11	4.2	Sep 13	.52	Sep 5 1995
INSTANTANEOUS PEAK FLOW			12800		Dec 1	28500
INSTANTANEOUS PEAK STAGE			14.24		Dec 1	21.14
INSTANTANEOUS LOW FLOW					.20	
ANNUAL RUNOFF (CFSM)	2.28		2.03		1.83	
ANNUAL RUNOFF (INCHES)	31.10		27.52		24.93	
10 PERCENT EXCEEDS	753		655		614	
50 PERCENT EXCEEDS	171		140		98	
90 PERCENT EXCEEDS	18		9.8		7.4	

KENTUCKY RIVER BASIN

03281100 GOOSE CREEK AT MANCHESTER, KY

LOCATION.--Lat 37°09'07", long 83°45'37", Clay County, Hydrologic Unit 05100203, on left bank on downstream side of Second Street bridge at Manchester, 0.9 mi upstream from Little Goose Creek, and at mile 21.7.

DRAINAGE AREA.--163 mi².

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 819.37 ft above sea level. Prior to September 15, 1975, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Dec. 4-13, 19-22, Jan. 10-15, 17-21, and Mar. 4 to Apr. 13. Records good except for periods of estimated record, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 28, 1947, Jan. 29, 1957, and Mar. 12, 1963, reached a stage of 40.6 ft, discharge, 38,000 ft³/s, 37.3 ft, discharge, 29,800 ft³/s, and 33.5 ft, discharge, 21,500 ft³/s, respectively, present site.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	34	5710	294	349	599	560	331	220	514	19	4.9
2	105	36	1510	252	269	1990	460	256	243	257	14	4.4
3	176	34	740	207	216	5430	380	249	394	140	12	4.1
4	93	30	520	168	363	2000	310	213	266	88	9.9	4.0
5	59	27	390	219	753	1800	280	174	181	67	8.5	3.3
6	42	25	320	240	618	2100	230	153	131	50	7.3	3.2
7	32	43	270	219	461	1100	210	123	123	40	6.1	3.1
8	26	1790	220	176	491	700	180	101	115	33	5.5	3.3
9	22	642	180	225	536	500	150	98	102	60	7.0	14
10	20	287	170	240	465	470	140	84	85	138	7.7	19
11	18	178	160	200	373	360	130	67	72	59	6.9	15
12	16	122	150	155	303	300	140	57	66	40	6.5	8.6
13	14	90	140	125	251	270	180	52	96	32	8.7	6.2
14	13	75	125	145	240	260	140	59	983	27	11	4.8
15	12	64	102	185	204	210	125	67	1200	22	9.1	4.1
16	11	54	94	553	168	160	111	48	474	19	8.0	3.2
17	9.9	53	132	460	149	150	104	39	764	16	13	3.1
18	43	357	140	310	133	370	95	36	836	14	41	2.7
19	153	789	130	250	128	2600	97	44	437	12	18	2.7
20	69	400	115	210	122	1600	104	167	682	11	61	6.2
21	45	951	105	190	137	900	101	139	416	11	38	6.5
22	35	1800	100	215	208	570	165	89	237	76	20	5.9
23	41	529	124	377	181	400	169	67	153	106	13	4.7
24	59	326	187	468	167	310	167	54	104	60	10	6.5
25	48	265	281	1110	158	260	144	58	77	30	8.4	7.2
26	41	652	257	713	220	320	123	497	104	23	7.4	6.6
27	40	515	222	497	478	300	116	420	178	17	6.5	6.0
28	36	357	186	2190	512	280	127	298	86	95	6.3	6.1
29	36	267	197	1290	---	1100	483	258	64	130	11	6.2
30	38	807	237	653	---	900	410	252	188	48	7.2	5.9
31	35	---	301	460	---	700	---	204	---	27	5.5	---
TOTAL	1432.9	11599	13515	12996	8653	29009	6131	4754	9077	2262	413.5	181.5
MEAN	46.2	387	436	419	309	936	204	153	303	73.0	13.3	6.05
MAX	176	1800	5710	2190	753	5430	560	497	1200	514	61	19
MIN	9.9	25	94	125	122	150	95	36	64	11	5.5	2.7
CFSM	.28	2.37	2.67	2.57	1.90	5.74	1.25	.94	1.86	.45	.08	.04
IN.	.33	2.65	3.08	2.97	1.97	6.62	1.40	1.08	2.07	.52	.09	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1997, BY WATER YEAR (WY)

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
MEAN	89.0	209	383	449	490	545	415	308	154	95.3	51.1	44.8																								
MAX	600	646	1229	1205	1196	1665	983	1158	975	381	178	185																								
(WY)	1990	1978	1991	1974	1972	1975	1972	1984	1989	1965	1977	1979																								
MIN	2.13	11.4	28.3	22.9	70.5	111	50.8	29.3	6.48	2.03	3.72	2.11																								
(WY)	1970	1988	1966	1981	1968	1969	1986	1965	1988	1966	1988	1965																								

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1965 - 1997

ANNUAL TOTAL	116247.9	100023.9		
ANNUAL MEAN	318	274	268	
HIGHEST ANNUAL MEAN			456	1994
LOWEST ANNUAL MEAN			107	1988
HIGHEST DAILY MEAN	5710	Dec 1	5710	Dec 1
LOWEST DAILY MEAN	9.9	Oct 17	2.7	Sep 18
ANNUAL SEVEN-DAY MINIMUM	11	Aug 22	3.6	Sep 2
INSTANTANEOUS PEAK FLOW			8340	Mar 3
INSTANTANEOUS PEAK STAGE			22.70	Mar 3
INSTANTANEOUS LOW FLOW				32.85
ANNUAL RUNOFF (CFSM)	1.95		1.68	1.65
ANNUAL RUNOFF (INCHES)	26.53		22.83	22.38
10 PERCENT EXCEEDS	712		582	579
50 PERCENT EXCEEDS	172		132	93
90 PERCENT EXCEEDS	16		7.4	6.3

KENTUCKY RIVER BASIN

03281500 SOUTH FORK KENTUCKY RIVER AT BOONEVILLE, KY

LOCATION.--Lat 37°28'45"(corrected), long 83°40'38", Owsley County, Hydrologic Unit 05100203, on right bank 600 ft downstream from Buck Creek, 0.2 mi downstream from bridge on State Highway 30 at Booneville, 0.5 mi downstream from Meadow Creek, and at mile 11.5.

DRAINAGE AREA.--722 mi².

PERIOD OF RECORD.--March 1925 to September 1931, October 1939 to current year. Monthly discharge only for October 1939, published in WSP 1305.

REVISED RECORDS.--WSP 893: 1929(M). WSP 1335: WSP 1555: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 642.49 ft above sea level. See WDR KY-92-1 for history of changes prior to Nov. 27, 1929.

REMARKS.--Estimated daily discharges: Dec. 21-23, Jan. 11-14, 17-19, and Feb. 5-10. Records good except for periods of estimated record, which are poor.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	424	244	11200	1550	1600	2770	1940	902	1110	741	135	62
2	1310	239	12400	1420	1260	8760	1520	850	1100	1060	97	48
3	2010	236	3550	1250	1040	16000	1290	776	2600	673	76	39
4	1050	220	2060	1060	992	20000	1110	817	2290	459	63	30
5	639	200	1450	1100	2800	7260	970	703	1510	348	59	25
6	447	187	1260	1600	3200	9630	873	625	1050	288	54	21
7	333	220	1050	1450	2300	5390	802	561	822	241	44	18
8	267	6260	884	1210	1800	2900	673	486	1160	199	39	16
9	224	5700	761	1120	1900	2050	583	446	1270	180	34	48
10	192	2020	655	1360	2300	1660	522	423	1050	236	32	279
11	169	1230	599	1290	1780	1450	479	370	808	360	33	230
12	149	883	580	1030	1430	1230	471	319	677	287	35	174
13	134	680	572	890	1200	1080	508	292	748	196	50	111
14	120	566	516	1030	1140	1060	567	281	3690	152	162	78
15	110	484	455	1190	1060	1040	492	299	4900	128	135	59
16	100	418	431	1540	934	884	437	308	2890	111	106	45
17	93	378	597	2100	839	790	411	264	7430	96	76	37
18	133	917	827	1760	764	843	396	224	4680	84	69	30
19	407	3040	783	1890	714	5470	384	205	2690	74	59	26
20	604	2340	692	1370	675	9420	398	245	1590	65	142	55
21	405	1970	575	973	671	3770	406	597	1600	59	159	198
22	305	6750	545	859	955	2280	412	528	1080	67	241	108
23	265	3380	485	1310	1050	1600	496	386	757	211	155	83
24	281	1770	966	1720	928	1240	509	310	576	307	102	77
25	322	1300	1860	3130	848	1040	495	268	450	416	74	64
26	302	2090	1680	3260	834	1160	445	868	399	215	61	58
27	294	2260	1380	2200	1190	1190	417	2420	565	146	57	52
28	292	1640	1170	5320	1570	1080	434	1790	611	117	51	51
29	279	1280	1150	7440	---	2610	553	1870	417	125	46	50
30	266	1640	1340	3320	---	3660	1120	1490	580	212	42	49
31	256	---	1430	2170	---	2570	---	1230	---	199	53	---
TOTAL	12182	50542	53903	58912	37774	121887	20113	21153	51100	8052	2541	2221
MEAN	393	1685	1739	1900	1349	3932	670	682	1703	260	82.0	74.0
MAX	2010	6750	12400	7440	3200	20000	1940	2420	7430	1060	241	279
MIN	93	187	431	859	671	790	384	205	399	59	32	16
CFSM	.54	2.33	2.41	2.63	1.87	5.45	.93	.95	2.36	.36	.11	.10
IN.	.63	2.60	2.78	3.04	1.95	6.28	1.04	1.09	2.63	.41	.13	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 1997, BY WATER YEAR (WY)

MEAN	221	681	1372	1836	2127	2350	1682	1112	595	396	256	148
MAX	2843	2380	4935	5461	5905	7400	4633	5130	2710	2666	1700	827
(WY)	1990	1974	1991	1974	1956	1975	1972	1984	1989	1941	1942	1989
MIN	.084	.32	12.1	104	178	568	222	119	36.7	3.67	4.56	.68
(WY)	1954	1954	1954	1981	1941	1988	1963	1941	1966	1944	1930	1930

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1925 - 1997

ANNUAL TOTAL	498039	440380	
ANNUAL MEAN	1361	1207	1064
HIGHEST ANNUAL MEAN			1808
LOWEST ANNUAL MEAN			413
HIGHEST DAILY MEAN	15200	May 29	20000
LOWEST DAILY MEAN	59	Sep 4	16
ANNUAL SEVEN-DAY MINIMUM	77	Aug 31	28
INSTANTANEOUS PEAK FLOW			22400
INSTANTANEOUS PEAK STAGE			30.59
INSTANTANEOUS LOW FLOW			
ANNUAL RUNOFF (CFSM)	1.88	1.67	1.47
ANNUAL RUNOFF (INCHES)	25.66	22.69	20.02
10 PERCENT EXCEEDS	3040	2480	2420
50 PERCENT EXCEEDS	816	604	358
90 PERCENT EXCEEDS	116	62	27

KENTUCKY RIVER BASIN

03282000 KENTUCKY RIVER AT LOCK 14, AT HEIDELBERG, KY

LOCATION.--Lat 37°33'19", long 83°46'06", Lee County, Hydrologic Unit 05100204, on right bank 200 ft upstream from lock 14 at Heidelberg, 0.3 mi upstream from Sturgeon Creek, and at mile 249.2.

DRAINAGE AREA.--2,657 mi².

PERIOD OF RECORD.--October 1925 to September 1931, December 1936 to February 1937, July 1938 to current year. Gage-height records collected in this vicinity since 1902 are published in reports of National Weather Service.

REVISED RECORDS.--WSP 1385: 1926-27, 1928(M), 1929, 1931(M), 1937, 1939(M), drainage area.

GAGE.--Water-stage recorder. Datum of gage is 626.66 ft above sea level, Ohio River datum. Prior to September 2, 1939, nonrecording gage at lock 14 at same datum.

REMARKS.--Estimated daily discharges: Dec. 19-23, Jan. 13-15, 18-21, June 2-3, Aug. 26 to Sept. 9, and Sept. 19-25. Records good above 1,000 ft³/s, fair between 1,000 ft³/s and 150 ft³/s, and poor below 150 ft³/s and for periods of estimated record. Flow regulated by Buckhorn Lake beginning December 1960 (station 03280800), and by Carr Fork Lake beginning January 1976 (station 03277446).

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2250	1120	22400	5000	9040	8470	9880	2750	5120	3070	494	250
2	4030	1030	32900	5020	6820	24200	8060	2500	3190	4130	394	230
3	6580	1020	20200	4480	5250	39000	6490	2510	5580	3490	333	215
4	6530	1020	11400	3560	4130	48500	5160	2800	6880	2250	299	210
5	3760	963	9260	4000	7160	35100	4580	2740	5200	1620	298	200
6	2260	908	8340	4960	11200	31100	4260	2680	4070	1190	288	190
7	1620	961	7590	5950	10400	24800	3790	2290	3000	1000	321	175
8	1430	12300	6580	5070	8300	17000	3290	2100	4500	872	276	170
9	1160	20400	5810	4420	9350	12800	2530	1900	7170	805	254	230
10	901	13100	3790	4560	8950	9840	2050	1650	6680	877	234	466
11	727	8570	2840	5040	7660	9490	1870	1580	4580	862	213	601
12	705	5510	2610	4570	6110	8780	1780	1440	3360	859	201	544
13	715	2900	2360	3370	5060	8190	1780	1220	3110	714	191	390
14	591	2240	2050	2720	4710	6650	1930	1020	9010	627	302	317
15	507	2110	1970	2630	4240	6940	1810	1270	15500	566	522	279
16	478	2190	1850	4060	3740	6850	1570	1340	12100	504	540	222
17	454	2030	2450	6350	3370	6290	1460	1130	22300	472	386	171
18	515	3190	2900	5570	2980	6150	1410	995	22100	438	314	143
19	919	7690	2670	4800	2720	11700	1360	926	15200	412	314	180
20	1740	8770	2310	4590	2560	24900	1350	1230	9900	379	962	230
21	1550	7320	1900	4340	2430	19900	1310	1650	6320	345	1090	550
22	1250	15100	1750	3820	2780	13000	1310	2290	4590	345	1160	400
23	1190	16500	1780	4200	3150	9930	1360	1800	3470	836	882	320
24	1270	10400	3080	6030	2910	7990	1420	1380	2660	1670	597	300
25	1310	8020	5360	8020	2600	5480	1670	1040	2040	1660	413	270
26	1330	8290	5510	10400	2490	5060	1970	2560	1660	1240	330	234
27	1360	8240	5110	8730	3070	5350	1740	10000	2010	875	310	221
28	1380	6740	4130	12900	4280	4860	1690	12300	2260	645	280	204
29	1260	5230	3850	22800	---	6920	1700	13600	2060	554	270	184
30	1120	5880	4120	17600	---	14000	2560	9090	2140	554	260	184
31	1160	---	4350	12200	---	12700	---	6720	---	596	255	---
TOTAL	52052	189742	193220	201760	147460	451940	83140	98501	197760	34457	12983	8280
MEAN	1679	6325	6233	6508	5266	14580	2771	3177	6592	1112	419	276
MAX	6580	20400	32900	22800	11200	48500	9880	13600	22300	4130	1160	601
MIN	454	908	1750	2630	2430	4860	1310	926	1660	345	191	143
CFSM	.63	2.38	2.35	2.45	1.98	5.49	1.04	1.20	2.48	.42	.16	.10
IN.	.73	2.66	2.71	2.82	2.06	6.33	1.16	1.38	2.77	.48	.18	.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1997, BY WATER YEAR (WY)

MEAN	1480	2962	5208	6010	7379	7951	5794	4979	2667	1110	969	787
MAX	10380	7006	14850	14010	16710	18260	13190	16010	10380	3320	3006	3680
(WY)	1990	1978	1991	1994	1994	1994	1994	1984	1989	1992	1977	1989
MIN	242	431	582	362	2345	1791	855	910	247	206	154	170
(WY)	1989	1988	1981	1981	1988	1988	1986	1986	1988	1988	1988	1984

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1977 - 1997
ANNUAL TOTAL	1856373	1671295	
ANNUAL MEAN	5072	4579	3925
HIGHEST ANNUAL MEAN			6973
LOWEST ANNUAL MEAN			1461
HIGHEST DAILY MEAN	33300	May 29	48500
LOWEST DAILY MEAN	213	Sep 4	143
ANNUAL SEVEN-DAY MINIMUM	285	Aug 31	199
INSTANTANEOUS PEAK FLOW			50300
INSTANTANEOUS PEAK STAGE			21.63
INSTANTANEOUS LOW FLOW			35.60
ANNUAL RUNOFF (CFSM)	1.91	1.72	4.0
ANNUAL RUNOFF (INCHES)	25.99	23.40	1.48
10 PERCENT EXCEEDS	12600	10400	20.07
50 PERCENT EXCEEDS	3060	2490	1690
90 PERCENT EXCEEDS	489	307	293

KENTUCKY RIVER BASIN

03282040 STURGEON CREEK AT CRESSMONT, KY

LOCATION.--Lat 37°30'02", long 83°48'37", Lee County, Hydrologic Unit 05100204, on right bank 30 ft downstream of bridge on State Highway 597, 0.2 mi southeast of Cressmont, 0.2 mi upstream from Elkhorn Branch, and 0.5 mi downstream from Granny Dismal Creek.

DRAINAGE AREA.--77.3 mi².

PERIOD OF RECORD.--October 1992 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 704.53 ft above sea level.

REMARKS.--Estimated daily discharges: Oct. 9 to Nov. 14, Jan. 10-15, 17-21, and May 9-28. Records good except for periods of estimated record, which are poor.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	85	1430	104	144	905	157	32	200	257	5.0	1.4
2	909	70	466	92	109	2160	126	31	259	127	4.0	1.1
3	362	65	273	84	89	4230	104	72	1460	77	3.4	1.0
4	155	60	179	74	124	866	90	78	315	49	3.7	.82
5	91	55	139	155	152	1010	79	65	170	38	4.3	.65
6	64	50	129	142	130	894	73	57	108	30	2.9	.61
7	48	100	98	118	128	398	64	47	136	24	2.1	.83
8	40	1500	82	100	92	267	54	42	633	20	1.8	.83
9	38	800	70	113	77	183	48	90	450	38	3.0	11
10	36	400	61	120	76	182	44	70	294	49	2.7	38
11	35	200	60	100	69	133	40	50	186	25	2.5	13
12	33	100	68	90	79	106	41	45	131	20	2.1	6.4
13	31	70	68	84	71	94	44	40	175	17	3.5	4.1
14	30	62	55	78	114	123	38	35	642	13	7.7	3.2
15	29	50	52	75	76	106	34	40	329	11	8.0	2.9
16	27	46	53	152	56	93	31	35	394	9.0	4.9	2.6
17	26	45	273	100	45	90	32	30	1220	7.6	3.4	2.2
18	40	244	248	90	59	151	31	28	481	6.7	2.7	1.9
19	160	302	182	85	79	532	31	40	285	6.1	4.8	1.8
20	150	196	131	80	75	402	33	200	175	5.7	11	57
21	100	372	102	75	79	263	31	160	110	5.3	8.6	41
22	80	383	92	104	104	186	32	80	77	5.7	5.9	13
23	72	231	91	186	84	132	31	60	57	72	3.9	7.4
24	75	158	273	283	79	102	30	45	44	29	2.7	6.1
25	78	167	257	325	76	87	27	50	36	14	2.2	5.3
26	80	412	192	173	92	122	24	250	48	8.9	2.9	4.5
27	88	279	153	184	117	92	25	300	56	6.6	5.4	3.6
28	100	197	122	378	101	92	33	200	41	5.6	3.1	3.0
29	110	145	155	196	---	462	32	142	59	13	2.9	2.7
30	120	546	145	216	---	288	28	103	547	11	2.5	2.5
31	95	---	126	190	---	223	---	120	---	7.0	1.8	---
TOTAL	3356	7390	5825	4346	2576	14974	1487	2637	9118	1008.2	125.4	240.44
MEAN	108	246	188	140	92.0	483	49.6	85.1	304	32.5	4.05	8.01
MAX	909	1500	1430	378	152	4230	157	300	1460	257	11	57
MIN	26	45	52	74	45	87	24	28	36	5.3	1.8	.61
CFSM	1.40	3.19	2.43	1.81	1.19	6.25	.64	1.10	3.93	.42	.05	.10
IN.	1.62	3.56	2.80	2.09	1.24	7.21	.72	1.27	4.39	.49	.06	.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1997, BY WATER YEAR (WY)

MEAN	45.5	112	139	258	205	343	170	166	118	15.5	18.3	21.6
MAX	108	246	193	403	484	540	304	345	304	32.5	29.3	59.5
(WY)	1997	1997	1994	1994	1994	1994	1994	1995	1997	1997	1994	1996
MIN	6.54	21.2	62.1	139	92.0	122	49.6	26.1	19.1	4.06	4.05	3.81
(WY)	1995	1995	1995	1993	1997	1995	1997	1993	1994	1995	1997	1995

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1993 - 1997

ANNUAL TOTAL	60166.8	53083.04	
ANNUAL MEAN	164	145	134
HIGHEST ANNUAL MEAN			195
LOWEST ANNUAL MEAN			96.9
HIGHEST DAILY MEAN	2590	4230	4230
LOWEST DAILY MEAN	1.8	.61	.35
ANNUAL SEVEN-DAY MINIMUM	2.6	.83	.48
INSTANTANEOUS PEAK FLOW		8200	8200
INSTANTANEOUS PEAK STAGE		14.75	14.75
INSTANTANEOUS LOW FLOW			.33
ANNUAL RUNOFF (CFSM)	2.13	1.88	1.73
ANNUAL RUNOFF (INCHES)	28.95	25.55	23.56
10 PERCENT EXCEEDS	345	290	309
50 PERCENT EXCEEDS	90	75	56
90 PERCENT EXCEEDS	8.9	3.7	4.0

KENTUCKY RIVER BASIN

03282500 RED RIVER NEAR HAZEL GREEN, KY

LOCATION.--Lat 37°48'44", long 83°27'50", Wolfe County, Hydrologic Unit 05100204, on right bank 600 ft upstream from Buck Creek, 0.3 mi downstream from Chapel Branch, 2.7 mi northwest of Hazel Green, and at mile 72.7.

DRAINAGE AREA.--65.8 mi².

PERIOD OF RECORD.--April 1954 to current year.

REVISED RECORDS.--WRD KY 72-1: 1971.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 870.11 ft above sea level.

REMARKS.--Estimated daily discharges: Oct. 16 to Dec. 23, Jan. 11-15, 17-22, June 1 to Sept. 1, and Sept. 13-30. Records poor.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	16	600	82	118	651	146	54	600	90	16	3.5
2	60	14	400	80	91	1520	121	51	400	50	12	3.1
3	85	13	250	77	78	1710	100	70	220	42	9.4	2.9
4	37	12	160	69	94	1280	87	108	500	38	7.6	2.9
5	23	11	110	146	210	583	77	86	300	32	14	2.7
6	17	25	80	176	175	764	67	75	180	28	32	2.4
7	13	100	70	131	145	405	60	62	110	24	21	2.3
8	11	480	60	102	154	238	56	55	400	21	15	2.0
9	8.9	290	54	97	153	172	48	59	580	30	11	6.6
10	8.9	150	51	99	140	164	44	51	700	42	8.0	3.6
11	9.0	70	51	90	123	147	39	44	500	30	8.4	1.7
12	8.7	50	54	74	107	126	41	40	300	22	8.0	8.9
13	8.3	40	60	66	94	109	54	39	170	17	7.2	6.0
14	9.3	34	48	60	135	114	41	35	270	14	8.2	5.0
15	11	28	44	55	142	101	37	37	240	12	10	4.5
16	12	24	100	105	125	81	33	34	300	10	15	4.1
17	20	30	370	90	108	75	31	32	600	9.0	10	3.9
18	40	50	300	80	94	162	31	29	1400	8.4	8.0	3.7
19	36	80	200	70	85	455	30	53	800	8.0	10	3.5
20	28	110	120	66	78	301	30	393	500	7.4	20	3.4
21	22	90	92	60	74	199	28	134	300	6.8	48	4.0
22	18	130	84	62	75	149	27	86	190	20	29	7.0
23	16	95	80	89	67	115	26	65	110	110	19	5.0
24	17	80	241	107	60	92	26	52	80	60	13	4.0
25	16	170	279	175	57	80	24	45	60	40	9.8	3.7
26	18	220	172	136	56	105	22	385	80	30	8.0	6.0
27	22	200	127	119	67	97	26	323	240	24	7.0	4.4
28	27	100	101	560	63	97	55	160	150	85	6.2	3.7
29	24	94	88	354	---	241	58	159	80	50	5.8	3.3
30	22	200	78	212	---	216	52	130	180	30	4.8	3.0
31	19	---	82	153	---	189	---	146	---	20	4.0	---
TOTAL	680.1	3006	4606	3842	2968	10738	1517	3092	10540	1010.6	405.4	168.5
MEAN	21.9	100	149	124	106	346	50.6	99.7	351	32.6	13.1	5.62
MAX	85	480	600	560	210	1710	146	393	1400	110	48	36
MIN	8.3	11	44	55	56	75	22	29	60	6.8	4.0	2.0
CFSM	.33	1.52	2.26	1.88	1.61	5.26	.77	1.52	5.34	.50	.20	.09
IN.	.38	1.70	2.60	2.17	1.68	6.07	.86	1.75	5.96	.57	.23	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1997, BY WATER YEAR (WY)

MEAN	17.2	52.8	117	132	179	198	155	99.6	45.7	30.1	25.0	14.6
MAX	138	227	555	357	555	523	472	318	351	157	141	180
(WY)	1990	1986	1979	1974	1989	1955	1972	1983	1997	1981	1974	1974
MIN	.22	.54	2.76	17.5	27.6	49.1	16.6	13.9	1.19	1.52	.27	.17
(WY)	1964	1956	1964	1981	1968	1969	1986	1986	1988	1970	1957	1955

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1954 - 1997

ANNUAL TOTAL	40915.28	42573.6										
ANNUAL MEAN	112	117								88.7		
HIGHEST ANNUAL MEAN										153		1994
LOWEST ANNUAL MEAN										39.6		1969
HIGHEST DAILY MEAN	895	May 29				1710	Mar 3		6170		Dec 9	1978
LOWEST DAILY MEAN	.62	Sep 9				2.0	Sep 8		.00		Sep 14	1954
ANNUAL SEVEN-DAY MINIMUM	.64	Sep 3				2.6	Sep 2		.00		Sep 12	1955
INSTANTANEOUS PEAK FLOW						1920	Mar 3		9080		Feb 27	1962
INSTANTANEOUS PEAK STAGE						7.82	Mar 3		22.12		Feb 27	1962
INSTANTANEOUS LOW FLOW									.53		Oct 3	1995
ANNUAL RUNOFF (CFSM)	1.70					1.77			1.35			
ANNUAL RUNOFF (INCHES)	23.13					24.07			18.32			
10 PERCENT EXCEEDS	293					274			202			
50 PERCENT EXCEEDS	64					60			30			
90 PERCENT EXCEEDS	4.2					7.8			1.5			

KENTUCKY RIVER BASIN

03283500 RED RIVER AT CLAY CITY, KY

LOCATION.--Lat 37°51'53", long 83°56'01", Powell County, Hydrologic Unit 05100204, on right bank 25 ft upstream from bridge on State Highway 15, 0.1 mi downstream from Skinner Branch, 0.4 mi upstream from Brush Creek, 0.5 mi west of Clay City, and at mile 21.6.

DRAINAGE AREA.--362 mi².

PERIOD OF RECORD.--October 1930 to March 1932, April 1938 to current year. Monthly discharge only for October 1930, published in WSP 1305.

REVISED RECORDS.--WSP 1275: 1931-32. WSP 1385: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 600.47 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to Aug. 14, 1939, nonrecording gages, Aug. 14, 1939, to Aug. 13, 1975, water-stage recorder at site 50 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Dec. 21, 22 and, Jan. 11-15, 17-22. Records good except for periods of estimated record, which are poor. Flow diversions by Clay City Water Plant, which can be significant during low-flow periods.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	162	100	3000	441	772	4490	1060	479	4430	588	91	34
2	118	87	2520	423	605	12900	842	435	2180	419	72	31
3	261	79	1160	408	501	12000	697	454	1210	330	60	33
4	320	72	759	381	951	11100	592	529	2940	262	53	32
5	174	66	558	527	1160	7000	517	496	1780	215	70	34
6	122	62	517	822	1030	5010	464	424	930	181	227	29
7	93	131	469	659	825	3780	404	363	667	156	135	26
8	76	2310	396	525	794	1700	345	380	1600	135	79	24
9	66	1750	347	498	813	1210	300	618	4360	164	65	42
10	59	772	302	574	687	1750	269	433	4790	227	54	281
11	56	499	278	470	620	1360	247	334	2140	172	55	234
12	52	360	305	400	548	996	245	281	1220	123	53	128
13	48	275	335	350	500	811	261	254	992	100	48	75
14	45	224	295	310	629	834	263	238	1460	85	57	53
15	42	188	261	320	787	823	213	250	1370	75	69	43
16	40	157	264	589	694	640	189	238	1420	66	78	37
17	39	143	1850	540	603	561	186	189	7200	59	65	33
18	78	261	1620	480	524	1150	182	174	10900	54	54	30
19	203	517	973	450	477	3210	171	262	6410	49	53	28
20	187	524	674	410	437	2470	167	1250	1840	45	213	28
21	116	483	500	390	407	1490	165	997	1150	45	317	35
22	89	649	450	370	410	1070	171	514	786	349	241	45
23	83	531	439	507	358	815	167	359	577	740	127	40
24	90	427	1490	770	302	638	157	280	458	533	82	36
25	90	463	1820	1500	275	548	145	292	367	285	72	34
26	85	1120	1090	991	273	958	131	1640	423	179	68	36
27	111	1120	810	774	341	785	303	1840	1420	161	61	33
28	126	705	643	2630	363	881	763	1200	778	608	51	30
29	132	519	541	2450	---	2170	635	2280	471	495	46	28
30	131	943	476	1340	---	1790	460	1730	1100	215	40	25
31	115	---	430	976	---	1410	---	2430	---	131	37	---
TOTAL	3409	15537	25572	22275	16686	86350	10711	21643	67369	7246	2793	1597
MEAN	110	518	825	719	596	2785	357	698	2246	234	90.1	53.2
MAX	320	2310	3000	2630	1160	12900	1060	2430	10900	740	317	281
MIN	39	62	261	310	273	548	131	174	367	45	37	24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1997, BY WATER YEAR (WY)

MEAN	88.7	279	621	786	1012	1096	828	540	301	261	181	108
MAX	928	1220	3036	2634	3564	3048	2406	1943	2246	1845	1179	1185
(WY)	1990	1987	1979	1950	1989	1955	1972	1995	1997	1938	1938	1974
MIN	4.41	9.75	19.7	43.2	127	258	110	54.6	23.9	5.01	18.2	6.15
(WY)	1964	1954	1954	1931	1954	1969	1986	1941	1988	1944	1957	1984

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1931 - 1997

ANNUAL TOTAL	240768	281188										
ANNUAL MEAN	658	770								501		
HIGHEST ANNUAL MEAN										884		1989
LOWEST ANNUAL MEAN										158		1941
HIGHEST DAILY MEAN	5130	May 29				12900	Mar 2		26100	Dec 9	1978	
LOWEST DAILY MEAN	26	Sep 3				24	Sep 8		1.2	Aug 10	1944	
ANNUAL SEVEN-DAY MINIMUM	27	Sep 1				30	Sep 2		2.0	Oct 2	1930	
INSTANTANEOUS PEAK FLOW						14900	Mar 2		28800	Dec 9	1978	
INSTANTANEOUS PEAK STAGE						20.87	Mar 2		26.75	Dec 9	1978	
INSTANTANEOUS LOW FLOW									1.2	Aug 10	1944	
10 PERCENT EXCEEDS	1520					1660			1200			
50 PERCENT EXCEEDS	390					370			184			
90 PERCENT EXCEEDS	45					49			22			

KENTUCKY RIVER BASIN

03284000 KENTUCKY RIVER AT LOCK 10 NEAR WINCHESTER, KY

LOCATION.--Lat 37°53'41", long 84°15'44", Madison County, Hydrologic Unit 05100205, on left bank at lock 10, 0.9 mi downstream from Otter Creek, 8.0 mi southwest of Winchester, and at mile 176.4.

DRAINAGE AREA.--3,955 mi².

PERIOD OF RECORD.--October 1907 to current year.

REVISED RECORDS.--WSP 1275: 1908-52. 1955: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 557.37 ft above sea level (Ohio River datum). Feb. 2, 1940 to Aug. 10, 1943, water-stage recorder 1.1 mi upstream at different datum. Aug. 11, 1943 to June 12, 1978, nonrecording gage at present site and datum.

REMARKS.--Estimated daily discharges: Mar. 7-11, June 21-26, and Aug. 18-20. Records fair. Flow regulated since January 1976 by Carr Fork Lake (station 03277446), since December 1960 by Buckhorn Lake (station 03280800).

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3390	1510	21500	5750	13400	35500	14600	3680	22800	5240	1010	262
2	2700	1430	36100	6090	10700	57500	11300	3790	15200	4910	860	223
3	6980	1360	35400	5760	8360	59600	9370	3640	11000	4910	714	242
4	7550	1300	19000	5020	14000	63500	7620	4020	12600	3830	590	231
5	6180	1210	12100	5570	13700	63100	6540	4030	11400	2810	499	201
6	3670	1150	10300	7020	14500	59700	5780	3740	7830	2220	495	180
7	2460	1290	9220	7140	15100	47000	5160	3550	6320	1840	631	165
8	1950	10300	8170	7160	13300	37000	4510	3160	15000	1590	578	156
9	1700	23500	7110	6090	12800	30000	3860	3550	24600	1430	540	178
10	1440	20200	5950	6090	12800	22000	3160	3110	20300	1640	450	687
11	1200	12200	4130	6080	11400	16000	2730	2640	14000	1580	373	1140
12	1000	8530	3840	5710	9610	12200	2550	2390	8830	1460	327	1100
13	911	5270	3880	4950	7980	10800	2510	2220	10700	1340	314	903
14	810	3490	3280	3960	7900	10400	2530	2030	19300	1180	319	691
15	726	2710	2870	3530	7830	9240	2500	1960	22500	1020	423	523
16	605	2550	2720	4590	6870	9130	2320	2060	20100	903	638	431
17	519	2480	11200	6000	6040	8420	2160	2020	37600	819	741	321
18	628	3290	9150	6870	5330	10900	2080	1830	41500	741	650	246
19	1170	6290	6470	6240	4740	19400	2020	2210	33400	675	500	216
20	1570	10000	4960	5720	4380	25200	1970	5310	21100	618	1300	264
21	1870	9710	3860	5570	4190	27700	1940	3640	17500	571	1870	239
22	1760	12500	3250	5140	4200	19600	1940	3130	14000	735	1790	293
23	1520	18500	3070	5560	4480	14000	1920	3070	11700	1470	1620	484
24	1450	15000	7680	8170	4500	10900	1970	2550	8800	1860	1330	585
25	1510	11500	10100	13500	4110	8680	2000	2170	6900	2250	1040	477
26	1600	13300	9040	13100	3860	7940	2160	6850	5400	2070	783	385
27	1680	12400	7780	12300	4220	7800	2560	11300	3940	1710	601	337
28	1610	10000	6670	19100	5040	7860	3570	16000	3980	1690	496	305
29	1720	7860	5430	25000	---	13300	3250	20200	3230	2130	407	254
30	1620	9620	5220	24700	---	15700	2960	17100	5180	1610	346	192
31	1540	---	5310	17800	---	17600	---	15100	---	1150	321	---
TOTAL	65039	240450	284760	265280	235340	757670	119540	162050	456710	58002	22556	11911
MEAN	2098	8015	9186	8557	8405	24440	3985	5227	15220	1871	728	397
MAX	7550	23500	36100	25000	15100	63500	14600	20200	41500	5240	1870	1140
MIN	519	1150	2720	3530	3860	7800	1920	1830	3230	571	314	156

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1997, BY WATER YEAR (WY)

MEAN	1608	3540	7299	8868	10200	12470	9325	6709	3474	1690	1511	1217
MAX	12850	10270	23400	25490	25060	27650	26100	19600	15220	4640	4916	6676
(WY)	1990	1987	1979	1974	1989	1975	1972	1984	1997	1992	1992	1974
MIN	177	372	416	446	2011	3125	1177	1031	265	292	258	175
(WY)	1970	1964	1966	1981	1968	1988	1986	1976	1988	1970	1986	1984

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1961 - 1997

ANNUAL TOTAL	2533584	2679308	
ANNUAL MEAN	6922	7341	5640
HIGHEST ANNUAL MEAN			9815
LOWEST ANNUAL MEAN			2228
HIGHEST DAILY MEAN	43200	May 30	63500
LOWEST DAILY MEAN	203	Sep 5	156
ANNUAL SEVEN-DAY MINIMUM	297	Sep 1	193
INSTANTANEOUS PEAK FLOW			64000
INSTANTANEOUS PEAK STAGE			27.07
10 PERCENT EXCEEDS	15600		17700
50 PERCENT EXCEEDS	4380		3860
90 PERCENT EXCEEDS	735		511
			14300
			2420
			345
			99100
			116
			122
			101000
			40.15
			1994
			1988
			Dec 10 1978
			Oct 20 1980
			Oct 16 1980
			Dec 10 1978
			Dec 10 1978

KENTUCKY RIVER BASIN

03285000 DIX RIVER NEAR DANVILLE, KY

LOCATION.--Lat 37°38'31", long 84°39'39", Garrard County, Hydrologic Unit 05100205, on right bank 50 ft downstream from bridge on State Highway 52, 1.4 mi downstream from Hanging Fork, 6 mi east of Danville, and at mile 34.6.

DRAINAGE AREA.--318 mi².

PERIOD OF RECORD.--May to August 1905 (gage heights only), October 1942 to current year. Published as "Dicks River," 1905.

REVISED RECORDS.--WSP 1555: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 750.10 ft above sea level. Prior to Dec. 16, 1942, nonrecording gage at same site and datum. May to August 1905, nonrecording gage at site 6 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Jan. 13-15, 18-21. Records good except for periods of estimated record, which are fair.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	405	107	5920	421	541	11100	653	226	8150	1630	46	9.6
2	296	96	2640	372	429	16100	489	258	1970	510	30	7.3
3	353	95	926	334	360	14400	399	382	2780	309	22	5.8
4	295	88	623	298	5390	11800	334	524	1480	208	17	4.5
5	216	76	473	1090	4850	5760	287	296	730	157	13	3.6
6	171	70	474	1060	1440	6380	254	214	502	130	12	3.0
7	141	87	410	615	891	1580	216	169	379	104	12	2.7
8	120	3270	327	458	876	946	180	144	1780	85	10	2.3
9	103	1150	272	440	984	694	158	165	2880	71	9.1	18
10	89	572	234	752	770	867	141	177	1100	60	17	1190
11	79	388	215	492	633	723	130	133	705	53	23	234
12	72	286	357	344	531	529	127	108	552	51	22	98
13	64	231	561	310	454	431	129	96	578	41	13	57
14	57	199	370	270	790	1170	119	91	5010	35	11	37
15	52	174	302	400	875	1100	104	103	3640	31	10	27
16	48	153	270	782	650	675	94	107	1000	26	9.6	21
17	43	140	5020	567	525	528	88	85	8350	22	9.8	16
18	47	612	2060	470	440	2150	86	73	2350	18	12	13
19	90	929	904	410	376	6600	85	67	992	15	12	10
20	155	583	610	360	331	1940	89	92	657	13	103	10
21	98	855	444	320	305	1000	95	107	433	13	113	363
22	74	1460	389	422	351	713	97	89	312	9.8	53	139
23	66	712	384	861	324	525	100	66	244	115	34	81
24	68	503	3500	2100	261	413	90	52	190	71	25	55
25	107	723	1640	3480	232	349	80	46	151	36	18	44
26	93	2300	818	1130	233	501	71	44	124	26	92	36
27	84	967	613	765	625	463	147	68	818	19	51	29
28	106	642	502	4570	656	500	702	111	404	18	30	22
29	128	487	441	1770	---	2950	345	267	190	236	21	17
30	149	1260	407	915	---	1120	220	307	3510	142	15	14
31	127	---	411	692	---	816	---	1220	---	79	12	---
TOTAL	3996	19215	32517	27270	25123	94823	6109	5887	51961	4333.8	877.5	2569.8
MEAN	129	641	1049	880	897	3059	204	190	1732	140	28.3	85.7
MAX	405	3270	5920	4570	5390	16100	702	1220	8350	1630	113	1190
MIN	43	70	215	270	232	349	71	44	124	9.8	9.1	2.3
CFSM	.41	2.01	3.30	2.77	2.82	9.62	.64	.60	5.45	.44	.09	.27
IN.	.47	2.25	3.80	3.19	2.94	11.09	.71	.69	6.08	.51	.10	.30

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

MEAN	102	314	681	796	990	1025	670	465	268	179	94.7	162
MAX	1323	1471	3656	3140	4129	3059	2736	2618	1732	1692	527	3430
(WY)	1980	1987	1979	1950	1989	1997	1972	1983	1997	1996	1958	1979
MIN	.000	.030	.69	17.0	72.1	174	57.2	51.8	8.83	.31	.93	.013
(WY)	1953	1954	1954	1981	1954	1983	1986	1976	1988	1944	1952	1953

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1943 - 1997	
ANNUAL TOTAL	248971		274682.1			
ANNUAL MEAN	680		753		476	
HIGHEST ANNUAL MEAN					1184	
LOWEST ANNUAL MEAN					119	
HIGHEST DAILY MEAN	35100	Jul 20	16100	Mar 2	35100	Jul 20 1996
LOWEST DAILY MEAN	11	Jul 13	2.3	Sep 8	.00	Jul 21 1944
ANNUAL SEVEN-DAY MINIMUM	16	Jul 8	4.2	Sep 2	.00	Jul 29 1944
INSTANTANEOUS PEAK FLOW			19100	Mar 3	52400	Jul 20 1996
INSTANTANEOUS PEAK STAGE			12.69	Mar 3	21.81	Dec 9 1978
INSTANTANEOUS LOW FLOW					1.3	Oct 12 1994
ANNUAL RUNOFF (CFSM)	2.14		2.37		1.50	
ANNUAL RUNOFF (INCHES)	29.12		32.13		20.36	
10 PERCENT EXCEEDS	1290		1520		1080	
50 PERCENT EXCEEDS	315		258		125	
90 PERCENT EXCEEDS	49		18		3.0	

KENTUCKY RIVER BASIN

03285200 CLARKS RUN NEAR DANVILLE, KY

LOCATION.--Lat 37°38'31", long 84°43'16", Boyle County, Hydrologic Unit 05100205, on downstream side of bridge on County Highway 1805, 0.4 mi north of State Highway 52, 1.8 mi southeast of Danville, and 2.2 mi upstream from mouth.

DRAINAGE AREA.--26.4 mi².

PERIOD OF RECORD.--October 1992 to September 1997 (Discontinued).

GAGE.--Water-stage recorder. Datum of gage is 803.09 above sea level.

REMARKS.--Estimated daily discharges: Nov. 13 to Dec. 5 and Jan. 11-14, 17-19. Records good except for periods of estimated record, which are poor.

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

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	11	370	42	65	1670	55	27	585	26	6.5	4.2
2	28	11	160	39	54	1040	46	16	227	20	4.9	4.2
3	22	9.9	80	37	47	666	40	30	190	16	4.1	3.8
4	18	9.1	62	35	877	241	36	21	100	11	3.9	3.4
5	16	8.9	52	102	333	410	33	15	64	9.4	3.5	3.2
6	14	8.8	45	72	146	228	30	12	47	8.0	2.8	2.7
7	13	58	37	55	98	118	25	10	44	7.5	2.8	1.7
8	12	159	32	46	105	81	23	19	437	6.5	3.8	1.7
9	11	55	27	59	87	58	20	24	182	7.7	12	24
10	9.9	37	24	56	71	76	18	13	96	7.8	11	55
11	7.8	29	23	44	57	48	18	10	68	6.3	6.6	13
12	8.6	25	88	34	48	39	18	9.5	56	5.7	5.7	8.4
13	8.5	21	60	29	43	34	16	8.3	51	4.9	7.9	6.5
14	8.1	18	46	43	77	139	14	9.6	463	4.7	6.2	5.2
15	8.0	16	39	54	65	76	13	8.5	193	4.8	3.9	4.4
16	7.3	14	39	122	53	55	12	8.5	130	4.0	3.2	3.9
17	7.5	32	558	58	42	44	13	7.1	453	3.7	2.7	4.2
18	19	92	165	48	37	264	12	6.5	152	3.8	13	4.5
19	14	62	106	42	33	317	13	7.9	103	2.8	22	2.7
20	9.6	90	74	38	29	115	12	27	71	2.6	59	30
21	9.2	150	58	34	32	76	14	11	51	2.1	16	15
22	9.2	94	53	73	28	53	12	8.6	40	3.8	9.9	8.4
23	15	54	51	81	23	40	15	7.9	32	34	7.5	6.0
24	11	110	360	357	21	33	11	7.1	27	14	6.1	7.7
25	9.9	240	136	372	19	29	9.6	11	24	8.5	43	6.1
26	11	140	94	149	30	56	8.8	13	24	5.2	18	4.9
27	15	80	72	111	48	31	54	21	20	4.3	10	3.8
28	17	52	60	366	37	88	42	17	17	47	12	3.2
29	16	150	52	146	---	154	22	30	15	39	6.6	3.1
30	12	600	46	105	---	87	16	21	64	15	5.8	2.5
31	11	---	47	84	---	73	---	301	---	9.9	5.3	---
TOTAL	415.6	2436.7	3116	2933	2605	6439	671.4	738.5	4026	346.0	325.7	247.4
MEAN	13.4	81.2	101	94.6	93.0	208	22.4	23.8	134	11.2	10.5	8.25
MAX	37	600	558	372	877	1670	55	301	585	47	59	55
MIN	7.3	8.8	23	29	19	29	8.8	6.5	15	2.1	2.7	1.7
CFSM	.51	3.08	3.81	3.58	3.52	7.87	.85	.90	5.08	.42	.40	.31
IN.	.59	3.43	4.39	4.13	3.67	9.07	.95	1.04	5.67	.49	.46	.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1997, BY WATER YEAR (WY)

MEAN	12.6	34.2	50.9	89.7	84.3	140	50.1	61.6	51.8	26.6	13.3	12.3
MAX	20.8	81.2	101	127	149	238	93.7	167	134	80.3	23.8	35.2
(WY)	1996	1997	1997	1994	1994	1994	1994	1995	1997	1996	1994	1996
MIN	5.40	10.3	23.9	54.6	29.9	80.1	22.4	10.5	15.9	11.2	7.18	4.73
(WY)	1993	1995	1996	1993	1996	1995	1997	1993	1994	1997	1993	1994

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1993 - 1997
ANNUAL TOTAL	21077.9	24300.3	
ANNUAL MEAN	57.6	66.6	52.2
HIGHEST ANNUAL MEAN			69.1
LOWEST ANNUAL MEAN			31.2
HIGHEST DAILY MEAN	1110	Jul 20	1670
LOWEST DAILY MEAN	3.8	Sep 15	1.7
ANNUAL SEVEN-DAY MINIMUM	4.3	Sep 9	3.0
INSTANTANEOUS PEAK FLOW			2670
INSTANTANEOUS PEAK STAGE			7.47
INSTANTANEOUS LOW FLOW			11.72
ANNUAL RUNOFF (CFSM)	2.18	2.52	1.2
ANNUAL RUNOFF (INCHES)	29.70	34.24	1.98
10 PERCENT EXCEEDS	119	146	26.88
50 PERCENT EXCEEDS	28	26	110
90 PERCENT EXCEEDS	6.7	4.9	20
			4.4

KENTUCKY RIVER BASIN

03286500 KENTUCKY RIVER AT LOCK 7 NEAR HIGH BRIDGE, KY

LOCATION.--Lat 37°48'53", long 37°43'26", Jessamine County, Hydrologic Unit 05100205, on right bank at Lock 7, 0.45 mi northwest of High Bridge, 1.2 mi downstream from Dix River, 3.8 mi upstream of U.S. Highway 68 bridge, and at mile 117.

DRAINAGE AREA.--5,036 mi².

PERIOD OF RECORD.--October 1901 to September 1924 (gage-heights only), monthly discharge October 1924 to September 1927, December 1992 to current year.

GAGE.--Water-stage recorder. Datum of gage is 503.92 ft above sea level, Kentucky River datum.

REMARKS.--Estimated daily discharges: Oct. 1 to Feb. 28 and March 4 to Sept. 30. Record fair above 1,000 ft³/s and poor below. Daily discharges determined by drainage area factors to Lock 6 and Lock 10 records. Flow regulated since November 1925 by Herrington Lake, since December 1960 by Buckhorn Lake, since January 1976 by Carr Fork Lake, and by hydroelectric plant at lock 7.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5000	1770	23100	6950	16900	35600	17900	3860	30600	7200	1170	292
2	4110	1680	36600	7200	13500	87900	14500	4300	23100	6550	955	276
3	6550	1590	39700	7450	10800	82600	12200	4150	15200	6350	800	284
4	8850	1520	26700	6600	16500	78000	10200	4500	14800	5500	670	269
5	8050	1440	16100	6250	23600	73000	8750	4550	14200	3910	565	238
6	5400	1370	13000	8350	17500	67000	7800	4320	11000	2710	525	214
7	3550	1490	11400	8900	17400	54000	7000	4030	8600	2330	585	207
8	2870	8900	10000	8850	15900	40000	6250	3640	13100	2270	575	195
9	2460	22300	8750	8050	15100	32100	5500	3930	21600	1880	560	530
10	1980	23700	7650	7750	14900	23100	4640	3740	27900	1860	498	1130
11	1540	16200	5750	7800	13900	18800	4050	3200	19400	1630	429	1820
12	1290	11500	5550	7250	12100	15100	3700	2790	13000	1590	382	1670
13	1130	7950	6450	6400	10300	13500	3580	2550	13100	1470	364	1230
14	1020	5300	5300	5700	9700	12900	3550	2350	26200	1310	359	800
15	950	3750	4300	4800	9900	12300	2970	2220	28600	1150	411	715
16	1120	3100	3600	5200	9100	11500	2630	2250	24500	1020	540	965
17	905	2910	13200	7150	8100	10800	2440	2220	39900	905	665	900
18	785	3590	15300	8000	7200	12200	2310	2100	49000	800	745	875
19	1180	6700	10300	7500	6500	23100	2230	2420	41200	720	655	780
20	1630	10700	7900	6800	6000	27300	2170	6550	28400	655	1030	700
21	1990	11800	6350	6450	5600	30700	2140	5400	20200	610	1510	336
22	2060	13800	5300	6300	5500	25000	2120	3950	14800	725	1850	404
23	1890	18900	4440	6950	5650	17900	2100	3560	11900	1250	1780	895
24	1750	18000	8300	9050	5700	13900	2110	3140	9200	1820	1520	1090
25	1810	14000	13400	16900	5450	11400	2140	2830	7250	2220	1280	1020
26	1880	16200	12100	16100	5100	10300	2250	5700	5850	2260	900	950
27	1940	15300	10400	14700	5300	10100	2580	11500	4320	1990	730	760
28	1960	12800	9000	21700	6100	9850	3890	16900	4560	1860	650	388
29	2010	10200	7650	27700	---	16300	4120	20800	4040	2120	439	384
30	1940	10800	7000	28500	---	18300	3550	19800	5250	2030	383	785
31	1850	---	6850	22700	---	19900	---	16800	---	1500	346	---
TOTAL	81450	279260	361440	320000	299300	914450	151370	180050	550770	70195	23871	21102
MEAN	2627	9309	11660	10320	10690	29500	5046	5808	18360	2264	770	703
MAX	8850	23700	39700	28500	23600	87900	17900	20800	49000	7200	1850	1820
MIN	785	1370	3600	4800	5100	9850	2100	2100	4040	610	346	195

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1997, BY WATER YEAR (WY)

MEAN	1804	4624	7905	13600	13380	21320	10820	10600	6972	1755	1585	1032
MAX	3052	9309	12670	22370	26380	29500	21390	22020	18360	2992	2946	2020
(WY)	1994	1997	1994	1994	1994	1997	1994	1995	1997	1996	1993	1996
MIN	748	1101	3252	7869	8727	10980	5046	2835	1426	883	770	382
(WY)	1995	1995	1995	1993	1996	1995	1997	1993	1994	1995	1997	1995

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1993 - 1997	
ANNUAL TOTAL	3120083		3253258			
ANNUAL MEAN	8525		8913		7931	
HIGHEST ANNUAL MEAN					11250	
LOWEST ANNUAL MEAN					5964	
HIGHEST DAILY MEAN	48300		87900		87900	
LOWEST DAILY MEAN	434		195		137	
ANNUAL SEVEN-DAY MINIMUM	589		240		163	
INSTANTANEOUS PEAK FLOW			91200		92800	
INSTANTANEOUS PEAK STAGE			37.31		37.90	
10 PERCENT EXCEEDS	18900		21100		19800	
50 PERCENT EXCEEDS	6330		5300		3580	
90 PERCENT EXCEEDS	1150		718		630	

KENTUCKY RIVER BASIN

03287000 KENTUCKY RIVER AT LOCK 6, NEAR SALVISA, KY

LOCATION.--Lat 37°55'32", long 84°49'17", Woodford County, Hydrologic Unit 05100205, on right bank at lock 6, 1.5 mi upstream from Clear Creek, 2.1 mi east of Salvisa, and at mile 96.2.

DRAINAGE AREA.--5,102 mi², of which about 101 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1925 to current year. Prior to October 1953, published as "at lock 6, at Warwick."

REVISED RECORDS.--WSP 1385: 1926-27, 1928(M), 1929, 1931(M), 1932, 1933-34(M), 1935, 1937, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 489.90 ft Kentucky River datum. Prior to November 1934, nonrecording gage at same site and datum. Auxiliary water-stage recorder at lock 5, 14 mi downstream. Prior to Sept. 30, 1981, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: May 28-30. Records good above 1000 ft³/s, fair below and for period of estimated record. Flow regulated since November 1925 by Herrington Lake, since December 1960 by Buckhorn Lake, since January 1976 by Carr Fork Lake, and by hydroelectric plant at lock 7.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6060	1770	21000	7200	18200	25400	18800	3410	34600	8260	1150	278
2	5070	1680	30900	7300	14500	44200	15800	4160	28600	7360	906	291
3	4950	1590	37900	8180	11800	78400	13300	4040	17500	6930	768	284
4	8910	1520	31300	7340	16700	82400	11500	4290	14700	6590	645	268
5	8870	1450	18000	6000	31200	85900	9890	4370	15000	4540	544	241
6	6530	1380	13900	8500	18100	81200	8850	4270	12800	2830	470	218
7	4240	1460	12000	9460	17200	78300	8010	3910	9810	2520	424	221
8	3470	5680	10500	9370	16300	61300	7250	3590	8630	2680	468	208
9	2940	17000	9160	9040	15200	29000	6470	3700	14200	2090	485	855
10	2270	23700	8340	8350	14800	20300	5610	3840	32100	1800	470	1460
11	1680	18100	6660	8510	14300	18800	4930	3310	22400	1400	421	2310
12	1400	12900	6630	7810	12900	15900	4420	2790	15700	1470	382	2060
13	1190	9760	8430	6980	11300	14300	4230	2510	13600	1370	361	1400
14	1080	6550	6800	6790	10200	13500	4150	2310	29900	1240	344	794
15	1050	4340	5260	5470	10700	13800	3010	2150	30900	1100	325	818
16	1540	3220	4020	5010	10200	12300	2540	2080	25500	972	333	1430
17	1210	2920	13200	7280	9200	11800	2350	2080	35700	848	458	1430
18	836	3320	19900	7920	8230	11500	2190	2050	49400	736	727	1470
19	994	6040	13100	7730	7480	23400	2090	2240	43300	646	723	1310
20	1410	9570	10000	6880	6860	25000	2040	6940	32200	584	535	1100
21	1780	12100	8180	6410	6360	29000	2000	6540	19900	551	813	393
22	2060	12900	6790	6600	6090	27100	1970	4250	13200	587	1610	467
23	2000	16100	5310	7440	6030	19400	1950	3540	10000	765	1660	1230
24	1800	18400	7660	8490	6190	15100	1920	3300	8060	1460	1480	1500
25	1850	14400	14900	18100	6080	12700	1940	3130	6450	1790	1340	1480
26	1890	16800	13600	16800	5700	11300	1960	3330	5410	2090	883	1460
27	1920	16200	11600	15100	5680	11000	2150	9810	4030	1980	762	1130
28	2030	13900	10200	21000	6280	10500	3610	15000	4450	1750	724	420
29	2000	11200	8960	26200	---	17100	4440	18000	4310	1750	402	472
30	1980	10300	7940	28200	---	18200	3640	19500	4420	2170	362	1350
31	1900	---	7540	24500	---	19200	---	16000	---	1660	316	---
TOTAL	86910	276250	389680	329960	323780	937300	163010	170440	566770	72519	21291	28348
MEAN	2804	9208	12570	10640	11560	30240	5434	5498	18890	2339	687	945
MAX	8910	23700	37900	28200	31200	85900	18800	19500	49400	8260	1660	2310
MIN	836	1380	4020	5010	5680	10500	1920	2050	4030	551	316	208

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1997, BY WATER YEAR (WY)

MEAN	2010	4314	9278	11070	12640	15450	11520	8336	4446	2114	1957	1743
MAX	13680	12450	31030	31910	34850	33640	35920	26910	18890	5406	6238	10860
(WY)	1990	1987	1979	1974	1989	1975	1972	1983	1997	1992	1992	1974
MIN	312	493	525	502	2655	3769	1491	1127	362	533	277	229
(WY)	1981	1988	1966	1981	1968	1983	1986	1976	1988	1970	1986	1984

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1961 - 1997	
ANNUAL TOTAL	3283558		3366258			
ANNUAL MEAN	8971		9223		7049	
HIGHEST ANNUAL MEAN					11050	
LOWEST ANNUAL MEAN					2826	
HIGHEST DAILY MEAN	46100	May 30	85900	Mar 5	125000	Dec 10 1978
LOWEST DAILY MEAN	511	Jul 2	208	Sep 8	83	Sep 4 1984
ANNUAL SEVEN-DAY MINIMUM	765	Aug 31	247	Sep 2	112	Nov 8 1991
INSTANTANEOUS PEAK FLOW			85900	Mar 5	130000	Dec 10 1978
INSTANTANEOUS PEAK STAGE			36.98	Mar 4	49.04	Dec 10 1978
10 PERCENT EXCEEDS	19200		19900		17900	
50 PERCENT EXCEEDS	6850		5680		3080	
90 PERCENT EXCEEDS	1380		726		493	

KENTUCKY RIVER BASIN

03287500 KENTUCKY RIVER AT LOCK 4, AT FRANKFORT, KY

LOCATION.--Lat 38°12'06", long 84°52'54", Franklin County, Hydrologic Unit 05100205, on left bank at downstream side of Broadway Street Bridge at Frankfort, 300 ft upstream from Benson Creek, 0.8 mi upstream from lock 4, and at mile 65.8. Records include flow of Benson Creek.

DRAINAGE AREA.--5,411 mi², (includes that of Benson Creek), of which about 120 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--March 1905 to July 1906 (gage heights only), October 1925 to current year. Monthly discharge only October 1930 to February 1931, October, November 1931, and May to September 1932, published in WSP 1305. Gage-height records collected in this vicinity September 1887 to December 1889, January to May 1893, and since April 1901 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 1113: 1941-42. WSP 1385: 1926-27, 1929(M), 1932-33, 1935-37, 1938(M), drainage area. WSP 1555: 1932(M).

GAGE.--Water-stage recorder. Datum of gage is 462.10 ft above sea level. See WDR KY-90-1 for history of changes prior to Jan. 28, 1982.

REMARKS.--Estimated daily discharges: Oct. 13-16, 18-20, and June 1, 2. Record good above 1,000 ft³/s and fair below and for periods of estimated record. Flow regulated since November 1925 by Herrington Lake, since December 1960 by Buckhorn Lake, since January 1976 by Carr Fork Lake, and by hydroelectric plant at lock 7.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6070	1820	24700	7480	19000	41800	19600	3730	43700	7910	1130	418
2	5090	1770	31400	7360	14800	90900	16400	4620	37700	7470	878	393
3	4720	1680	36900	8110	11900	92700	13500	6320	19300	7070	782	382
4	7940	1600	31900	7540	24700	92100	11600	5080	15400	6840	680	367
5	8230	1500	19000	7890	33900	90700	9920	4880	15400	5020	615	356
6	6510	1430	14300	8530	20100	86600	8820	4730	13000	3090	548	330
7	4130	1950	12000	9430	18200	80600	8090	4350	10200	2620	503	316
8	3340	6930	10500	9260	17300	63300	7470	4230	16200	2830	509	330
9	2750	16500	9060	9040	15900	35800	6880	4360	35300	2240	537	816
10	2150	23700	8440	8360	15300	23500	6230	4320	33900	1920	551	1390
11	1520	18600	6950	8340	14700	18800	5390	3730	23700	1530	505	2230
12	1170	13000	8780	7800	13100	15900	4810	3130	16700	1580	471	2100
13	1000	9650	9430	7060	11500	14100	4610	2790	15800	1440	460	1510
14	900	6870	7660	6960	10600	14300	4500	2560	26700	1280	438	846
15	800	4640	6100	5890	11300	13900	3400	2380	32800	1120	426	778
16	1180	3460	4720	5420	10600	12200	2820	2280	27100	978	424	1340
17	1060	3070	22600	7260	9520	11600	2570	2250	30800	875	497	1410
18	890	3610	22500	7830	8490	16400	2390	2210	50600	801	701	1430
19	800	6120	14100	7820	7780	24400	2290	2270	45700	731	706	1280
20	1200	9130	10900	7080	7220	24500	2210	7010	31200	687	658	1150
21	1530	11800	8650	6660	6810	27300	2190	6950	21000	651	724	568
22	1830	12800	7280	7030	6530	26000	2160	4640	13600	672	1440	493
23	1870	15800	5980	8230	6430	19200	2130	3770	10100	771	1650	1040
24	1700	18500	10300	11900	6520	15000	2090	3550	8160	1380	1470	1450
25	1620	16300	15700	22500	6440	12900	2090	5610	6830	1790	1320	1440
26	1810	18300	14100	18300	6110	12500	2110	8040	5860	2100	926	1410
27	1800	16900	11800	16900	6110	11300	2370	9960	4430	2010	785	1220
28	1920	14300	10300	23700	6590	11300	3920	12800	4690	1790	736	590
29	1880	11300	9120	27600	---	20700	4930	17200	4650	1710	572	502
30	1840	11900	8120	28500	---	19600	4170	20200	4610	2130	499	1130
31	1810	---	7730	25100	---	19900	---	18400	---	1710	451	---
TOTAL	81060	284930	421020	350880	347450	1059800	171660	188350	625130	74746	22592	29015
MEAN	2615	9498	13580	11320	12410	34190	5722	6076	20840	2411	729	967
MAX	8230	23700	36900	28500	33900	92700	19600	20200	50600	7910	1650	2230
MIN	800	1430	4720	5420	6110	11300	2090	2210	4430	651	424	316

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1997, BY WATER YEAR (WY)

MEAN	2120	4616	9816	11640	13230	16330	11980	8725	4701	2268	2099	1869
MAX	13240	13700	33220	33500	35680	34760	36690	28200	20840	6039	6433	10980
(WY)	1990	1987	1979	1974	1989	1975	1972	1983	1997	1992	1992	1974
MIN	289	542	566	540	2885	4175	1518	1142	417	568	336	269
(WY)	1981	1966	1966	1981	1968	1983	1986	1976	1988	1970	1986	1984

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1961 - 1997	
ANNUAL TOTAL	3472651		3656633			
ANNUAL MEAN	9488		10020		7424	
HIGHEST ANNUAL MEAN					11860	
LOWEST ANNUAL MEAN					3183	
HIGHEST DAILY MEAN	46000		92700		116000	
LOWEST DAILY MEAN	639		316		93	
ANNUAL SEVEN-DAY MINIMUM	775		353		128	
INSTANTANEOUS PEAK FLOW			93500		118000	
INSTANTANEOUS PEAK STAGE			45.22		48.47	
10 PERCENT EXCEEDS	21300		23600		18400	
50 PERCENT EXCEEDS	7580		6230		3360	
90 PERCENT EXCEEDS	1270		728		546	

KENTUCKY RIVER BASIN

03288000 NORTH ELKHORN CREEK NEAR GEORGETOWN, KY

LOCATION.--Lat 38°12'20", long 84°30'49", Scott County, Hydrologic Unit 05100205, on left bank at upstream side of bridge on Crumbaugh Lane, 1.7 mi downstream from Miller Run, 2.5 mi east of Georgetown, 2.7 mi upstream from Lanes Run at mile 58.3.

DRAINAGE AREA.--119 mi², of which about 8 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1949 to August 1984; October 1988 to current year. Monthly discharge only October 1949 to March 1950, published in WSP 1305.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 796.49 ft above sea level. Prior to Sept. 18, 1952, nonrecording gage and crest-stage gage at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 18-20 and Feb. 2 to Mar. 3. Records good except for periods of estimated record, which are fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 1948 reached a stage of about 22 ft, from information by local residents.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	26	1380	156	282	6500	364	34	3430	301	10	18
2	96	22	796	143	450	8400	281	44	1120	154	8.0	17
3	70	19	463	131	1100	2900	219	147	610	91	6.5	17
4	55	18	320	118	2100	2050	177	183	403	65	5.7	17
5	44	16	235	169	3100	1240	149	93	296	49	4.9	12
6	37	17	221	164	1400	1640	126	66	213	40	4.3	2.6
7	32	65	179	126	760	829	101	52	177	32	3.5	2.2
8	28	607	145	111	580	579	85	45	647	27	2.9	2.2
9	23	398	123	112	430	433	73	63	1440	24	3.6	4.1
10	21	248	106	128	360	504	65	56	1020	21	4.6	5.6
11	18	164	100	101	300	429	60	41	542	18	6.7	14
12	17	117	503	86	260	313	58	33	438	17	6.4	18
13	16	92	749	76	230	240	58	30	523	15	6.3	10
14	15	77	451	69	240	378	53	28	799	13	7.7	6.6
15	13	66	325	68	270	444	45	27	641	11	9.6	4.9
16	12	57	254	120	300	338	40	25	559	10	20	4.3
17	11	53	2880	89	260	274	40	23	2000	10	21	3.4
18	16	100	1440	70	210	1270	38	21	1300	8.7	39	2.7
19	32	192	639	60	180	2120	36	20	806	7.1	55	2.2
20	38	155	430	52	160	822	36	22	505	6.7	51	2.8
21	23	138	308	47	150	533	37	27	365	6.6	45	4.3
22	17	248	237	69	130	387	38	24	248	6.9	47	5.8
23	22	206	198	308	110	280	37	18	170	32	38	10
24	17	165	684	715	100	210	31	16	121	44	29	7.6
25	25	290	600	2160	92	176	27	28	95	27	25	6.1
26	25	681	407	766	400	357	25	315	80	21	23	4.5
27	28	453	312	558	1600	248	28	221	75	14	27	3.7
28	47	317	255	1070	4500	235	63	109	63	11	34	3.1
29	42	226	219	710	---	1490	57	113	58	14	28	2.8
30	37	344	196	474	---	685	41	131	160	10	23	2.5
31	31	---	174	360	---	497	---	406	---	12	18	---
TOTAL	1055	5577	15329	9386	20054	36801	2488	2461	18904	1119.0	613.7	217.0
MEAN	34.0	186	494	303	716	1187	82.9	79.4	630	36.1	19.8	7.23
MAX	147	681	2880	2160	4500	8400	364	406	3430	301	55	18
MIN	11	16	100	47	92	176	25	16	58	6.6	2.9	2.2
CFSM	.29	1.56	4.16	2.54	6.02	9.98	.70	.67	5.30	.30	.17	.06
IN.	.33	1.74	4.79	2.93	6.27	11.50	.78	.77	5.91	.35	.19	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1997, BY WATER YEAR (WY)

MEAN	34.2	91.2	260	292	350	404	232	190	105	55.0	47.9	44.6
MAX	312	347	1028	798	1169	1187	746	881	630	371	375	702
(WY)	1976	1980	1979	1951	1989	1997	1972	1983	1997	1991	1974	1979
MIN	.000	.000	.28	11.5	24.8	39.8	45.6	14.3	4.41	1.59	.41	.000
(WY)	1954	1954	1954	1981	1954	1983	1955	1976	1954	1951	1983	1953

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1950 - 1997	
ANNUAL TOTAL	93878.6		114004.7			
ANNUAL MEAN	256		312		174	
HIGHEST ANNUAL MEAN					319	
LOWEST ANNUAL MEAN					28.0	
HIGHEST DAILY MEAN	4600	May 6	8400	Mar 2	8400	Mar 2 1997
LOWEST DAILY MEAN	3.8	Sep 7	2.2	Sep 7	.00	Sep 11 1951
ANNUAL SEVEN-DAY MINIMUM	5.5	Aug 21	3.5	Sep 15	.00	Sep 11 1951
INSTANTANEOUS PEAK FLOW			15700	Mar 2	15700	Mar 2 1997
INSTANTANEOUS PEAK STAGE			26.04	Mar 2	26.04	Mar 2 1997
ANNUAL RUNOFF (CFSM)	2.16		2.62		1.47	
ANNUAL RUNOFF (INCHES)	29.35		35.64		19.92	
10 PERCENT EXCEEDS	655		695		427	
50 PERCENT EXCEEDS	106		76		49	
90 PERCENT EXCEEDS	12		7.7		3.4	

KENTUCKY RIVER BASIN

03288100 NORTH ELKHORN CREEK AT GEORGETOWN, KY

LOCATION.--Lat 38°13'10", long 84°33'47", Scott County, Hydrologic Unit 05100205, on right bank, 300 ft upstream of bridge on Highway 25, 0.4 mi downstream from Dry Run, and at mile 33.4.

DRAINAGE AREA.--147 mi², of which about 8 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--December 1992 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 803.40 ft above sea level, from topographic map. Prior to Oct. 1, 1994 at datum 3.40 ft. lower.

REMARKS.--Estimated daily discharges: Jan. 11 to Feb. 3, Feb. 7-17, and Mar. 1-10. Records good except for periods of estimated record, which are fair.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	190	31	1450	187	310	6400	401	43	4360	307	15	13
2	127	27	933	171	260	8300	315	50	1410	188	13	11
3	93	24	522	159	1200	11000	257	272	924	114	11	11
4	69	22	356	144	2530	2500	219	243	477	79	9.7	11
5	54	22	270	308	3840	2000	197	147	338	58	9.4	11
6	40	23	254	230	1050	1500	169	105	255	45	9.3	11
7	34	124	212	174	740	1200	139	83	250	36	8.8	11
8	32	710	174	148	560	860	118	89	732	30	8.1	10
9	29	475	151	148	460	560	102	121	1670	26	8.0	11
10	27	292	131	162	390	640	90	90	1200	23	10	22
11	25	202	126	134	320	444	83	63	622	20	15	17
12	22	150	484	101	290	329	82	47	469	19	12	23
13	20	118	833	89	260	264	80	41	531	21	11	19
14	19	97	490	83	290	471	72	38	961	21	14	14
15	19	82	352	92	340	488	60	36	757	21	13	11
16	17	71	289	141	390	366	53	36	629	21	12	10
17	17	63	3330	112	325	305	52	33	2410	18	15	9.7
18	28	98	1730	89	279	1660	48	29	1710	18	63	9.3
19	32	208	728	78	235	2490	46	28	1010	17	48	9.0
20	51	177	464	76	207	976	44	34	590	16	51	11
21	35	161	336	80	193	600	48	36	398	14	36	16
22	25	255	267	240	187	423	51	35	284	13	33	9.7
23	29	227	228	600	151	314	47	28	215	62	27	11
24	30	187	890	2700	129	252	40	25	162	81	21	15
25	29	395	705	1700	111	241	35	106	126	35	18	15
26	40	814	453	740	111	464	32	690	107	35	21	13
27	45	513	344	1300	145	313	40	330	102	21	16	11
28	53	353	287	1100	147	333	80	194	83	19	19	9.7
29	55	262	250	740	---	1730	79	180	88	33	21	8.6
30	42	420	229	520	---	821	52	194	174	21	18	8.2
31	36	---	203	400	---	552	---	709	---	15	16	---
TOTAL	1364	6603	17471	12946	15450	48796	3131	4155	23044	1447	602.3	372.2
MEAN	44.0	220	564	418	552	1574	104	134	768	46.7	19.4	12.4
MAX	190	814	3330	2700	3840	11000	401	709	4360	307	63	23
MIN	17	22	126	76	111	241	32	25	83	13	8.0	8.2
CFSM	.30	1.50	3.83	2.84	3.75	10.7	.71	.91	5.23	.32	.13	.08
IN.	.35	1.67	4.42	3.28	3.91	12.35	.79	1.05	5.83	.37	.15	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1997, BY WATER YEAR (WY)

MEAN	45.1	200	294	486	401	730	234	411	292	33.0	62.8	38.2
MAX	71.2	398	564	631	552	1574	408	786	768	46.7	156	136
(WY)	1994	1994	1997	1994	1997	1997	1994	1995	1997	1997	1993	1996
MIN	12.8	34.9	185	333	211	387	104	65.5	19.6	15.4	19.4	8.52
(WY)	1995	1995	1995	1993	1996	1995	1997	1993	1994	1995	1997	1994

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1993 - 1997

ANNUAL TOTAL	112376.1	135381.5	284
ANNUAL MEAN	307	371	371
HIGHEST ANNUAL MEAN			1997
LOWEST ANNUAL MEAN			1995
HIGHEST DAILY MEAN	4790	11000	11000
LOWEST DAILY MEAN	7.3	8.0	4.5
ANNUAL SEVEN-DAY MINIMUM	8.6	9.0	5.0
INSTANTANEOUS PEAK FLOW		19300	19300
INSTANTANEOUS PEAK STAGE		19.01	19.01
ANNUAL RUNOFF (CFSM)		2.09	2.52
ANNUAL RUNOFF (INCHES)		28.44	34.26
10 PERCENT EXCEEDS	768	817	640
50 PERCENT EXCEEDS	140	106	100
90 PERCENT EXCEEDS	16	14	10

KENTUCKY RIVER BASIN

03288110 ROYAL SPRINGS AT GEORGETOWN, KY

LOCATION.--Lat 38°12'34", long 84°33'43", Scott County, Hydrologic Unit 05100205, at Georgetown Water Plant, 200 ft downstream from dam, and 0.64 mi upstream from mouth.

PERIOD OF RECORD.--December 1992 to current year.

GAGE.--Water-stage recorder. Datum of gage is 800.00 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Mar. 2, Apr. 12, and Sept. 11, 12. Records good 10 ft³/s to 200 ft³/s and poor below 10 ft³/s, above 200 ft³/s, and for periods of estimated record. Flow regulated by Georgetown Water Plant.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	5.4	72	34	44	313	49	14	153	34	8.2	2.0
2	23	5.1	63	31	41	268	46	12	93	30	6.7	1.3
3	19	4.0	55	29	38	170	43	32	70	28	5.4	1.2
4	16	2.9	48	27	101	101	41	25	60	25	3.3	1.2
5	14	3.0	43	31	88	86	38	16	53	19	3.2	.68
6	12	4.4	41	27	66	82	36	15	47	15	2.6	.56
7	9.4	33	35	24	56	69	33	12	49	13	2.4	.79
8	9.2	53	31	22	53	60	32	14	80	12	2.7	.26
9	8.3	45	27	23	49	55	31	16	90	10	6.2	2.7
10	7.8	34	25	25	46	53	29	12	75	9.1	6.2	9.2
11	7.0	28	23	22	44	50	29	11	65	8.2	3.9	5.6
12	6.3	24	45	20	42	48	28	9.3	63	7.5	3.2	2.9
13	5.5	20	53	19	41	46	27	8.7	62	6.5	5.0	3.2
14	4.7	18	49	18	44	51	26	8.9	72	5.0	5.0	2.2
15	4.0	16	45	18	44	48	26	8.2	70	4.5	5.6	1.8
16	3.2	14	46	23	44	46	24	7.5	86	3.1	5.3	1.4
17	3.0	14	119	18	42	45	21	7.2	116	2.4	9.2	1.4
18	12	27	75	16	40	86	16	7.8	92	2.9	20	.74
19	9.8	23	58	16	38	86	14	6.2	78	3.2	11	.33
20	7.4	20	50	17	35	67	13	10	67	3.0	18	5.6
21	5.9	26	46	17	34	57	13	7.5	61	6.5	13	4.2
22	4.6	31	43	25	33	52	12	6.0	54	36	9.2	2.2
23	10	28	40	41	28	48	11	5.7	46	35	7.7	1.5
24	7.2	27	60	67	25	44	9.9	5.8	39	32	6.0	2.6
25	6.8	39	54	88	22	44	9.3	14	36	18	9.3	1.8
26	8.9	55	49	62	22	48	9.2	48	36	15	9.0	1.7
27	12	50	45	56	24	44	16	31	32	12	6.4	1.7
28	10	44	43	65	22	48	20	26	30	13	4.7	.99
29	9.4	38	41	57	---	74	14	29	36	19	3.3	1.0
30	7.8	48	38	52	---	60	12	27	43	11	2.7	1.2
31	6.3	---	36	47	---	54	---	60	---	8.9	2.5	---
TOTAL	298.5	779.8	1498	1037	1206	2403	728.4	512.8	1954	447.8	206.9	63.95
MEAN	9.63	26.0	48.3	33.5	43.1	77.5	24.3	16.5	65.1	14.4	6.67	2.13
MAX	28	55	119	88	101	313	49	60	153	36	20	9.2
MIN	3.0	2.9	23	16	22	44	9.2	5.7	30	2.4	2.4	.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1997, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997
MEAN	7.44	21.9	33.5	41.1	38.4
MAX	9.63	35.9	48.3	49.0	52.5
(WY)	1997	1994	1997	1996	1994
MIN	2.85	6.15	22.0	33.5	29.4
(WY)	1995	1995	1996	1997	1996

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1993 - 1997

ANNUAL TOTAL	11671.5	11136.15	
ANNUAL MEAN	31.9	30.5	27.2
HIGHEST ANNUAL MEAN			30.5
LOWEST ANNUAL MEAN			21.2
HIGHEST DAILY MEAN	141	313	313
LOWEST DAILY MEAN	1.3	.26	.00
ANNUAL SEVEN-DAY MINIMUM	2.6	.86	.00
INSTANTANEOUS PEAK FLOW		2240	2240
INSTANTANEOUS PEAK STAGE		7.30	7.30
10 PERCENT EXCEEDS	62	62	58
50 PERCENT EXCEEDS	29	24	22
90 PERCENT EXCEEDS	4.9	3.1	2.0

KENTUCKY RIVER BASIN

03289300 SOUTH ELKHORN CREEK NEAR MIDWAY, KY

LOCATION.--Lat 38°08'27", long 84°38'43", Scott County, Hydrologic Unit 05100205, on right bank, 5 ft upstream from bridge on U.S. Route 62/421, 2.2 mi southeast of Midway, 6.5 mi downstream from Town Branch, and at mile 27.6.

DRAINAGE AREA.--105 mi² of which about 21 mi² does not contribute directly to surface runoff.

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 790 ft above sea level.

REMARKS.--Estimated daily discharges: Oct. 1, June 22, 24, July 9, 19, and Sept. 21-30. Records fair except for periods of estimated record, which are poor. Water is diverted from the Kentucky River for use by the city of Lexington and is discharged into Town Branch at a site 17 mi above gage. Discharge partially regulated by low-head turbine, 1 mile upstream, since October 1989. Regulation does not effect peak discharge.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	46	928	141	240	4390	315	113	2100	123	61	28
2	93	41	631	133	193	10700	250	87	1040	72	49	38
3	73	38	386	124	168	4110	209	231	582	88	44	34
4	61	38	242	112	1370	2030	178	192	391	61	44	34
5	53	40	217	137	1680	1420	154	122	281	69	40	32
6	48	44	199	127	833	1520	133	95	218	56	38	18
7	45	221	155	115	502	969	123	83	232	65	35	25
8	42	425	134	107	402	651	112	89	1180	48	33	36
9	38	226	116	108	322	476	104	120	1730	40	26	77
10	40	155	102	129	270	632	98	84	1220	44	36	152
11	42	118	90	111	232	447	90	67	658	49	41	69
12	31	97	546	100	200	348	88	65	491	36	35	51
13	32	85	542	97	178	288	89	62	398	33	51	39
14	31	73	329	91	223	397	82	60	1000	22	67	37
15	32	66	246	89	244	340	76	61	567	34	51	37
16	31	61	206	132	230	277	74	56	409	30	51	31
17	31	60	1750	108	208	239	76	50	1650	18	43	30
18	77	174	1130	101	185	839	71	43	1270	23	151	29
19	85	142	578	94	163	1230	70	43	739	28	65	27
20	51	116	393	88	145	697	72	108	447	34	112	79
21	42	135	293	82	141	477	78	70	324	41	82	62
22	40	175	224	106	141	352	78	54	220	53	61	50
23	66	143	187	241	116	269	68	56	138	110	48	44
24	67	125	508	507	107	217	65	43	120	315	43	40
25	51	212	445	1370	100	185	62	64	97	111	53	43
26	61	463	339	690	102	302	58	339	133	80	63	38
27	76	289	255	454	134	202	109	185	99	63	50	34
28	68	215	218	705	115	238	149	125	80	55	44	29
29	64	172	205	519	---	902	95	155	117	131	41	26
30	59	306	177	373	---	552	80	139	241	108	30	23
31	47	---	155	297	---	428	---	302	---	73	31	---
TOTAL	1665	4501	11926	7588	8944	36124	3306	3363	18172	2113	1619	1292
MEAN	53.7	150	385	245	319	1165	110	108	606	68.2	52.2	43.1
MAX	93	463	1750	1370	1680	10700	315	339	2100	315	151	152
MIN	31	38	90	82	100	185	58	43	80	18	26	18
CFSM	.51	1.43	3.66	2.33	3.04	11.1	1.05	1.03	5.77	.65	.50	.41
IN.	.59	1.59	4.23	2.69	3.17	12.80	1.17	1.19	6.44	.75	.57	.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1997, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
MEAN	67.4	142	247	245	293	325	185	224	178	86.8	71.5	58.3				
MAX	151	307	673	405	1030	1165	366	718	606	240	255	108				
(WY)	1991	1994	1991	1996	1989	1997	1984	1983	1997	1992	1992	1992				
MIN	31.2	51.9	86.5	50.4	114	60.1	61.0	58.9	39.5	35.8	32.5	27.7				
(WY)	1995	1995	1990	1986	1993	1983	1986	1988	1988	1983	1983	1987				

SUMMARY STATISTICS

	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1982 - 1997	
ANNUAL TOTAL	81711		100613			
ANNUAL MEAN	223		276		176	
HIGHEST ANNUAL MEAN					276	
LOWEST ANNUAL MEAN					103	
HIGHEST DAILY MEAN	4090	May 6	10700	Mar 2	10700	Mar 2 1997
LOWEST DAILY MEAN	30	Sep 15	18	Jul 17	3.1	Oct 8 1994
ANNUAL SEVEN-DAY MINIMUM	33	Oct 11	27	Jul 13	18	Oct 6 1994
INSTANTANEOUS PEAK FLOW			12300	Mar 2	12300	Mar 2 1997
INSTANTANEOUS PEAK STAGE			26.37	Mar 2	26.37	Mar 2 1997
INSTANTANEOUS LOW FLOW					.00	Oct 7 1992
ANNUAL RUNOFF (CFSM)			2.13	2.63	1.68	
ANNUAL RUNOFF (INCHES)			28.95	35.65	22.83	
10 PERCENT EXCEEDS			450	558	362	
50 PERCENT EXCEEDS			129	107	91	
90 PERCENT EXCEEDS			42	36	33	

KENTUCKY RIVER BASIN

03289500 ELKHORN CREEK NEAR FRANKFORT, KY

LOCATION.--Lat 38°16'07", long 84°48'53", Franklin County, Hydrologic Unit 05100205, on right bank, 50 ft downstream from bridge on State Highway 1900, 4.2 mi northeast of city limits of Frankfort, 7.4 mi downstream from confluence of North and South Elkhorn Creeks, and at mile 10.4.

DRAINAGE AREA.--473 mi² of which about 70 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--May 1915 to December 1920 (gage heights only, October 1918 to December 1920), December 1939 to August 1984, October 1987 to current year. Published as "at Forks of Elkhorn" 1915-20.

REVISED RECORDS.--WSP 1555: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is approximately 540.20 ft above sea level. See WDR KY-90-1 for history of changes prior to Aug. 31, 1970.

REMARKS.--Estimated daily discharges: Jan. 17-21, Mar. 1-10 and April 14-May 14. Water-discharge records good except for periods of estimated record, which are fair. City of Lexington diverts water from Hickman Creek in Kentucky River Basin for municipal water supply; return flow of which enters tributary above station.

EXTREMES FOR OUTSIDE PERIOD OF RECORD.--Flood of Aug. 2, 1932, reached a stage of about 17.5 ft, from information by local resident. Flood of January 1937 was about 0.3 ft lower.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	930	167	3990	527	1140	14000	1890	191	9770	733	109	45
2	580	151	3730	460	888	18000	1410	223	6960	612	90	41
3	414	134	2090	431	698	25000	1100	601	4190	415	73	40
4	319	122	1340	394	4230	12000	902	899	2160	315	65	41
5	261	116	984	1480	7980	5300	773	497	1450	260	60	37
6	223	120	845	1060	4320	5800	682	365	1070	224	47	34
7	197	185	697	656	2590	4000	579	290	946	201	41	33
8	176	1860	522	487	1960	2500	487	263	2530	180	35	26
9	161	1590	408	440	1640	1700	436	401	6110	150	37	56
10	150	922	336	434	1360	1900	382	357	4640	138	49	79
11	138	580	301	393	1150	1830	364	252	2770	125	48	155
12	133	396	775	350	979	1690	329	200	1900	115	54	101
13	113	299	2540	323	828	1320	311	191	1580	100	57	79
14	109	241	1650	306	837	1070	260	171	2510	95	66	64
15	104	202	1150	328	1190	1330	240	153	2710	93	92	63
16	100	173	901	355	1240	1690	220	143	1960	81	78	55
17	94	155	6390	740	1090	1300	200	131	6220	73	79	49
18	111	164	5990	400	927	1090	190	117	6250	65	80	44
19	159	291	2920	325	793	3030	170	107	4510	58	197	38
20	194	325	1850	270	681	6730	160	111	2570	51	148	43
21	151	282	1330	230	598	3760	170	152	1720	45	178	58
22	141	367	1020	280	550	2390	165	120	1220	54	155	88
23	132	472	797	593	494	1720	160	103	927	78	117	69
24	143	406	2350	1770	423	1280	155	89	713	364	94	66
25	161	825	2530	5920	383	1020	150	234	579	368	83	55
26	154	2620	1680	3780	361	875	145	1790	487	202	80	61
27	163	1900	1280	2520	388	1390	140	1580	438	152	90	59
28	210	1220	1020	3890	421	1180	175	762	382	121	78	52
29	202	874	859	3010	---	995	250	567	339	104	66	44
30	221	1010	750	1950	---	3880	220	555	976	176	57	37
31	187	---	604	1460	---	3060	---	594	---	151	50	---
TOTAL	6531	18169	53629	35562	40139	132830	12815	12209	80587	5899	2553	1712
MEAN	211	606	1730	1147	1434	4285	427	394	2686	190	82.4	57.1
MAX	930	2620	6390	5920	7980	25000	1890	1790	9770	733	197	155
MIN	94	116	301	230	361	875	140	89	339	45	35	26
CFSM	.45	1.28	3.66	2.43	3.03	9.06	.90	.83	5.68	.40	.17	.12
IN.	.51	1.43	4.22	2.80	3.16	10.45	1.01	.96	6.34	.46	.20	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1997, BY WATER YEAR (WY)

MEAN	130	331	883	1139	1295	1434	921	666	420	236	176	156
MAX	1012	1379	3138	4630	4438	4309	3332	3747	2686	1171	963	2101
(WY)	1976	1943	1979	1950	1989	1964	1948	1983	1997	1960	1992	1979
MIN	5.94	12.1	17.3	33.8	64.5	145	119	51.8	31.7	15.9	17.7	9.21
(WY)	1944	1944	1944	1944	1944	1941	1918	1941	1944	1944	1948	1953

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1916 - 1997	
ANNUAL TOTAL	378891		402635			
ANNUAL MEAN	1035		1103		647	
HIGHEST ANNUAL MEAN					1103	
LOWEST ANNUAL MEAN					126	
HIGHEST DAILY MEAN	12000	May 6	25000	Mar 3	25000	Feb 16 1989
LOWEST DAILY MEAN	50	Sep 15	26	Sep 8	.00	Jan 7 1940
ANNUAL SEVEN-DAY MINIMUM	75	Sep 1	36	Sep 2	.00	Jan 7 1940
INSTANTANEOUS PEAK FLOW			35900	Mar 4	35900	Mar 4 1997
INSTANTANEOUS PEAK STAGE			17.96	Mar 3	17.96	Mar 3 1997
INSTANTANEOUS LOW FLOW			26	Sep 8		
ANNUAL RUNOFF (CFSM)	2.19		2.33		1.37	
ANNUAL RUNOFF (INCHES)	29.80		31.67		18.57	
10 PERCENT EXCEEDS	2510		2580		1620	
50 PERCENT EXCEEDS	468		361		206	
90 PERCENT EXCEEDS	108		62		33	

KENTUCKY RIVER BASIN

03290500 KENTUCKY RIVER AT LOCK 2, AT LOCKPORT, KY

LOCATION.--Lat 38°26'20", long 84°57'48", Henry County, Hydrologic Unit 05100205, on left bank at lock 2 at Lockport, 0.1 mi downstream from Sixmile Creek and at mile 31.0.

DRAINAGE AREA.--6,180 mi², of which about 196 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1925 to current year. Monthly discharge only for some periods, published in WSP 1305. Monthly discharge only for June to January 1931, published in WSP 1305; figures of daily discharge published in WSP 698 are unreliable.

REVISED RECORDS.--WSP 1385: 1926-29, 1932, 1934-37, 1945. WSP 1555: Drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 433.36 ft above sea level. Prior to August 29, 1975, nonrecording gage at same site and datum. Auxiliary nonrecording gage at lock 3, 11.0 mi upstream.

REMARKS.--Estimated daily discharges: Feb. 8-10, 13-21 and Mar. 1-11, 29-31. Records fair except for periods of estimated record and for periods of undefined slope conditions, June 13-15 and July 20--22, which are poor. Flow regulated by Carr Fork Lake beginning January 1976 (station 03277446), Buckhorn Lake beginning December 1960 (station 03280800), Herrington Lake beginning November 1925 (station 03286000), and by hydroelectric plant at lock 7.

COOPERATION.--Auxiliary gage readings furnished by U.S. Army Corps of Engineers.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7710	2200	28700	8570	23400	39000	19700	4320	36900	8370	1580	476
2	6580	2040	35000	8000	17900	75000	19800	5040	47000	8490	1200	453
3	5530	1960	40000	8920	14200	90000	16100	10100	30500	7580	977	400
4	7740	1830	35300	8690	10500	100000	13500	6930	19900	7300	820	387
5	9150	1750	24500	10800	49500	100000	11500	6140	18000	6080	683	361
6	7670	1700	17000	9950	30100	94000	10100	5660	16100	3890	591	341
7	5270	2150	14000	10800	22600	85000	9030	5250	12600	3030	511	315
8	4220	7080	12100	10300	19300	71000	8260	5250	15300	3220	495	310
9	3480	16000	9920	10200	18400	50000	7530	5800	41400	2760	530	736
10	2950	25200	9500	9370	17900	32000	6880	5310	39700	2350	570	1580
11	2170	21700	7700	9100	17300	26000	6090	4770	31100	1950	540	2230
12	1780	15300	10800	8690	16200	22200	5510	4050	20900	1910	496	2530
13	1540	11100	12500	7660	15500	19600	5210	3610	17100	1860	488	2000
14	1360	8030	10400	7620	14200	14700	5070	3340	33500	1740	477	1250
15	1270	5570	8060	6880	13700	13700	4290	3140	39000	1610	453	902
16	1520	4260	6250	6230	12500	15300	3390	3040	31300	1450	448	1350
17	1730	3560	32000	7510	11700	14100	3100	2970	39900	1290	507	1600
18	1460	3780	31400	8340	10300	25800	2910	2970	42700	1140	745	1580
19	1380	5630	20300	8340	9230	31800	2770	2830	21800	1010	866	1540
20	1660	8720	14200	7890	8580	34300	2690	5990	43300	905	953	1420
21	2060	12100	10900	7240	7640	31800	2690	7990	28000	820	833	863
22	2440	13500	9010	7750	7350	31800	2680	5670	17500	779	1420	516
23	2580	15800	7580	9540	7120	25100	2610	4490	12300	828	1830	953
24	2370	19700	16000	13500	7030	18700	2560	4130	9610	1360	1740	1520
25	2250	17200	17700	30600	6980	15200	2540	6450	7880	2220	1560	1620
26	2510	17800	17900	25400	6750	15600	2570	12100	6730	2380	1320	1580
27	2460	15100	14700	19300	6840	13400	2740	11500	5480	2360	1010	1530
28	2550	17400	12600	31300	7050	12500	3850	13900	5100	2040	914	905
29	2460	13200	11000	32500	---	14200	5440	17700	5370	1860	780	553
30	2410	13200	9490	31800	---	13900	5070	20700	5480	2290	593	979
31	2330	---	8830	30100	---	22400	---	22000	---	2160	532	---
TOTAL	102590	304560	515340	412890	409770	1168100	196180	223140	701450	87032	26462	32780
MEAN	3309	10150	16620	13320	14630	37680	6539	7198	23380	2807	854	1093
MAX	9150	25200	40000	32500	49500	100000	19800	22000	47000	8490	1830	2530
MIN	1270	1700	6250	6230	6750	12500	2540	2830	5100	779	448	310

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1997, BY WATER YEAR (WY)

MEAN	2415	5183	11370	13520	15200	19250	13990	10320	5578	2645	2408	2233
MAX	14120	13960	39510	37850	40180	40410	41540	34340	23380	7268	8589	14740
(WY)	1990	1987	1979	1974	1989	1975	1972	1983	1997	1992	1992	1979
MIN	450	603	668	770	4073	4423	2075	1518	508	654	445	385
(WY)	1970	1988	1966	1981	1968	1983	1986	1976	1988	1970	1986	1984

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1961 - 1997	
ANNUAL TOTAL	4157265		4180294			
ANNUAL MEAN	11360		11450		8648	
HIGHEST ANNUAL MEAN					14030	
LOWEST ANNUAL MEAN					3891	
HIGHEST DAILY MEAN	54400	Jan 25	100000	Mar 4	121000	Dec 11 1978
LOWEST DAILY MEAN	596	Sep 4	310	Sep 8	131	Oct 4 1981
ANNUAL SEVEN-DAY MINIMUM	777	Sep 1	367	Sep 2	166	Sep 8 1995
INSTANTANEOUS PEAK FLOW			100000		123000	
INSTANTANEOUS PEAK STAGE			53.60	Mar 3	56.85	Jan 24 1937
10 PERCENT EXCEEDS	26100		30300		21900	
50 PERCENT EXCEEDS	8900		7030		3880	
90 PERCENT EXCEEDS	1610		904		650	

KENTUCKY RIVER BASIN

03291500 EAGLE CREEK AT GLENCOE, KY

LOCATION.--Lat 38°42'18", long 84°49'26", Owen County, Hydrologic Unit 05100205, on left bank 600 ft upstream from bridge on U.S. Highway 127, 0.6 mi south of Glencoe, 5.8 mi downstream from Tenmile Creek, and at mile 21.6.

DRAINAGE AREA.--437 mi².

PERIOD OF RECORD.--April 1915 - September 1918, October 1918 - December 1920 (gage heights only), May 1928 - September 1931, June 1938 - September 1977, December 1988 to current year. Monthly discharge only for May 1915, June 1938, published in WSP 1305.

REVISED RECORDS.--WSP 1275: 1916-17, 1920(M). WSP 1555: Drainage area. WSP 1908: 1939-40(M), 1943(M), 1945(M), 1948(P), 1950(M), 1956-57(P), 1960(M).

GAGE.--Water-stage recorder. Datum of gage is 508.52 ft above sea level. Prior Oct. 1, 1950, nonrecording gages at same site and datum. Oct. 1, 1950 to Oct. 19, 1960, nonrecording gage 600 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Dec. 20-23, Dec. 25 to Jan. 30, Feb. 1 to March 8, April 18-20, 25-28, and July 5 to Aug. 6. Records good, except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1997

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	71	4680	280	360	2600	474	141	17100	583	.75	.50
2	27	53	1960	240	320	34000	374	154	7550	397	.42	.45
3	27	40	511	210	280	15000	309	3150	3180	273	.26	.37
4	28	39	274	180	4700	6000	268	2060	1580	195	.17	.29
5	28	49	192	170	1400	2900	247	594	607	94	.10	.26
6	29	46	218	1000	700	1500	236	348	449	58	.07	.28
7	26	52	293	560	540	820	198	252	380	39	.03	.26
8	19	1510	223	400	440	540	163	835	5170	29	.03	.30
9	16	1010	164	300	380	375	136	1680	12400	21	.05	.40
10	14	271	132	240	330	634	119	603	1800	16	.06	.43
11	13	152	114	200	300	535	111	346	773	12	.05	1.2
12	12	104	683	170	280	398	124	254	528	9.4	.05	4.0
13	11	77	2060	150	310	302	136	210	424	13	.16	3.1
14	13	59	579	120	350	964	115	178	893	19	.24	2.6
15	15	44	293	190	410	1500	100	155	596	27	.46	2.4
16	24	34	222	800	350	520	88	131	787	40	.53	2.2
17	23	28	10100	620	320	359	82	112	1650	61	.84	1.6
18	30	29	4800	520	290	3800	78	108	12100	52	9.8	1.2
19	27	28	802	450	260	6390	75	113	8160	42	12	1.2
20	18	30	600	390	230	1200	72	1460	1150	52	6.0	1.2
21	37	40	400	350	210	581	114	328	582	78	3.9	1.1
22	76	62	330	700	190	419	175	191	418	92	2.4	.93
23	60	107	300	1300	170	318	142	149	333	120	1.8	.81
24	45	137	3720	2100	150	256	106	119	279	38	1.5	.76
25	37	330	2600	1300	140	229	88	293	240	8.2	1.3	.82
26	36	3620	1200	920	320	1260	75	6620	207	3.6	1.1	.80
27	38	998	840	4600	560	1010	64	3860	182	1.9	.94	.79
28	40	355	660	2300	390	444	74	684	172	7.4	.83	.78
29	51	198	500	960	---	3860	95	476	175	3.9	.73	.68
30	115	197	400	590	---	1510	124	506	322	2.2	.63	.58
31	90	---	330	429	---	618	---	961	---	1.3	.56	---
TOTAL	1050	9770	40180	22739	14680	90842	4562	27071	80187	2388.9	47.76	32.29
MEAN	33.9	326	1296	734	524	2930	152	873	2673	77.1	1.54	1.08
MAX	115	3620	10100	4600	4700	34000	474	6620	17100	583	12	4.0
MIN	11	28	114	120	140	229	64	108	172	1.3	.03	.26
CFSM	.08	.75	2.97	1.68	1.20	6.71	.35	2.00	6.12	.18	.00	.00
IN.	.09	.83	3.42	1.94	1.25	7.73	.39	2.30	6.83	.20	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1997, BY WATER YEAR (WY)

MEAN	107	348	654	954	1086	1325	929	677	454	237	125	106
MAX	1005	1641	1874	3170	3295	5197	2910	3190	2673	1016	755	1355
(WY)	1976	1973	1952	1950	1956	1964	1948	1996	1997	1957	1977	1965
MIN	.000	.000	.000	2.85	44.6	120	131	25.5	1.56	.14	.000	.000
(WY)	1931	1931	1931	1931	1954	1941	1976	1930	1930	1930	1930	1930

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1916 - 1997	
ANNUAL TOTAL	320793.8		293549.95			
ANNUAL MEAN	876		804		579	
HIGHEST ANNUAL MEAN					1059	
LOWEST ANNUAL MEAN					117	
HIGHEST DAILY MEAN	15000	May 11	34000	Mar 2	39300	Mar 10 1964
LOWEST DAILY MEAN	1.1	Sep 1	.03	Aug 7	.00	Jul 15 1930
ANNUAL SEVEN-DAY MINIMUM	1.1	Sep 1	.05	Aug 6	.00	Jul 15 1930
INSTANTANEOUS PEAK FLOW			58300	Mar 2	58300	Mar 2 1997
INSTANTANEOUS PEAK STAGE			29.08	Mar 2	29.08	Mar 2 1997
INSTANTANEOUS LOW FLOW					1.1	Sep 1 1996
ANNUAL RUNOFF (CFSM)	2.01		1.84		1.33	
ANNUAL RUNOFF (INCHES)	27.31		24.99		18.01	
10 PERCENT EXCEEDS	2440		1510		1300	
50 PERCENT EXCEEDS	210		175		98	
90 PERCENT EXCEEDS	3.2		.82		1.1	

HARRODS CREEK BASIN

03292473 HARRODS CREEK NEAR PROSPECT, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°20'06", long 85°36'09", Jefferson County, Hydrologic Unit 05140101, at site off Hunting Creek Drive, 0.9 mi above Wolf Creek, and at mile 3.0.

DRAINAGE AREA.--92.1 mi².

PERIOD OF RECORD.--March 1988 to current year.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 1996					
15...	1010	458	7.2	14.0	8.0
DEC					
12...	1310	379	7.8	10.5	10.4
FEB 1997					
20...	0850	521	8.1	7.0	10.3
MAR					
19...	0830	316	6.7	4.5	10.9
APR					
17...	0830	487	8.4	11.5	10.3
MAY					
29...	0840	423	8.1	15.5	8.5
JUL					
17...	0830	547	7.6	25.0	5.8
AUG					
21...	0845	485	7.5	22.0	5.9

GOOSE CREEK BASIN

03292474 GOOSE CREEK AT OLD WESTPORT ROAD NR ST. MATTHEWS, KY

LOCATION.--Lat 38°16'33", long 85°36'22", Jefferson County, Hydrologic Unit 05140101, on downstream side of bridge on Westport Road, left bank, 1.2 mile northeast of St. Matthews, 5.0 miles above Little Goose Creek, and at mile 5.5

DRAINAGE AREA.--6.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1996 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Estimated daily discharges: Jan. 18-21 and Mar. 2-3. Records fair except for periods of estimated record which are poor.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	1.6	66	7.1	13	644	9.7	5.8	35	4.8	.65	.58
2	4.0	1.6	26	6.5	11	800	8.5	8.4	19	3.9	.58	.55
3	3.6	1.4	20	6.1	10	250	7.8	38	13	3.3	.57	1.8
4	2.6	1.3	16	5.7	41	75	7.0	10	11	2.8	.45	.73
5	2.0	1.3	18	12	26	49	7.3	8.0	9.0	2.6	.36	.53
6	1.9	2.3	17	7.3	19	36	6.3	7.1	8.2	2.3	.27	.44
7	1.9	5.5	13	6.2	16	27	5.2	6.2	7.4	2.1	.12	.37
8	2.0	5.7	11	5.7	14	22	4.7	19	24	2.0	.13	.81
9	2.5	4.3	9.2	6.4	12	21	4.3	11	16	1.9	50	1.3
10	2.3	3.4	8.7	6.1	10	21	4.2	8.1	11	1.7	25	1.6
11	1.8	2.9	8.3	5.7	9.3	16	4.1	6.7	8.8	1.6	6.6	.91
12	1.6	2.4	35	5.5	8.6	13	5.2	5.9	7.8	1.5	5.9	.69
13	1.6	2.2	19	5.4	8.4	13	4.3	5.3	119	1.4	5.1	.49
14	1.4	2.0	15	5.4	9.7	21	3.7	4.9	108	1.4	4.2	.35
15	1.4	1.9	12	6.9	8.7	12	3.4	4.4	40	1.2	3.9	.28
16	1.7	1.8	29	7.7	8.1	11	3.5	4.1	46	.99	2.8	.26
17	2.4	2.0	97	6.2	7.4	10	3.5	3.9	45	.95	2.3	.31
18	17	2.4	31	5.4	7.2	96	3.3	3.8	49	.88	2.0	.34
19	3.8	2.0	21	5.0	6.8	54	4.1	3.9	29	.83	2.1	.31
20	2.7	2.0	16	4.6	6.4	31	3.6	4.3	20	.68	3.7	.37
21	2.3	2.7	13	4.8	6.5	23	5.3	3.5	57	3.5	2.3	.29
22	2.1	2.4	11	13	5.8	17	4.2	3.2	33	3.0	1.8	.21
23	2.8	2.0	16	9.1	5.2	13	3.7	3.0	17	1.8	1.5	.25
24	2.0	1.8	56	22	4.9	11	3.3	4.9	12	1.5	1.4	1.4
25	1.7	20	21	19	4.6	13	2.9	14	9.7	1.1	1.5	.95
26	2.0	10	17	14	7.1	13	2.8	39	8.9	.91	1.3	.66
27	2.1	5.8	14	56	9.2	9.5	3.6	13	7.2	.84	1.1	.61
28	2.1	4.6	12	51	7.2	17	4.4	11	6.1	3.7	1.0	.50
29	2.1	3.8	10	27	---	25	3.5	31	5.8	1.4	.93	.49
30	2.0	11	9.0	20	---	14	3.8	16	5.7	.90	.81	.41
31	1.7	---	8.3	16	---	12	---	17	---	.71	.76	---
TOTAL	86.4	114.1	675.5	378.8	303.1	2389.5	141.2	324.4	788.6	58.191	31.13	18.79
MEAN	2.79	3.80	21.8	12.2	10.8	77.1	4.71	10.5	26.3	1.88	4.23	.63
MAX	17	20	97	56	41	800	9.7	39	119	4.8	50	1.8
MIN	1.4	1.3	8.3	4.6	4.6	9.5	2.8	3.0	5.7	.68	.12	.21
CFSM	.46	.63	3.63	2.04	1.80	12.8	.78	1.74	4.38	.31	.70	.10
IN.	.54	.71	4.19	2.35	1.88	14.81	.88	2.01	4.89	.36	.81	.12

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

MEAN	2.79	3.80	21.8	12.2	10.8	77.1	4.71	10.5	26.3	1.88	4.23	.63
MAX	2.79	3.80	21.8	12.2	10.8	77.1	4.71	10.5	26.3	1.88	4.23	.63
(WY)	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997
MIN	2.79	3.80	21.8	12.2	10.8	77.1	4.71	10.5	26.3	1.88	4.23	.63
(WY)	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997

SUMMARY STATISTICS

FOR 1997 WATER YEAR

ANNUAL TOTAL	5409.71
ANNUAL MEAN	14.8
HIGHEST DAILY MEAN	800 Mar 2
LOWEST DAILY MEAN	.12 Aug 7
ANNUAL SEVEN-DAY MINIMUM	.30 Sep 17
INSTANTANEOUS PEAK FLOW	3530 Mar 1
INSTANTANEOUS PEAK STAGE	5.93 Mar 1
ANNUAL RUNOFF (CFSM)	2.47
ANNUAL RUNOFF (INCHES)	33.54
10 PERCENT EXCEEDS	25
50 PERCENT EXCEEDS	5.3
90 PERCENT EXCEEDS	.82

GOOSE CREEK BASIN

03292474 GOOSE CREEK AT OLD WESTPORT ROAD NEAR ST. MATTHEWS, KY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1988 to current year.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S) (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 1996						
15...	0850	1.4	500	7.9	15.5	7.4
DEC						
12...	0900	47	313	7.2	11.5	9.5
FEB 1997						
20...	1220	6.7	538	8.3	10.5	13.4
MAR						
19...	1225	45	344	6.8	13.0	11.2
APR						
17...	1220	3.5	506	8.1	10.0	12.5
MAY						
29...	1210	30.4	415	7.9	15.5	9.3
JUL						
17...	1250	0.95	567	7.8	25.5	9.7
AUG						
21...	1255	2.2	542	8.2	21.5	9.4

GOOSE CREEK BASIN

03292475 GOOSE CREEK AT U.S. HWY 42 NEAR GLENVIEW ACRES, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°18'12", long 85°37'41", Jefferson County, Hydrologic Unit 05140101, at culvert on U.S. Highway 42, 1.7 mi above Little Goose Creek, and at mile 2.1.

DRAINAGE AREA.--10.1 mi².

PERIOD OF RECORD.--February 1988 to current year.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S) (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 1996						
15...	1230	2.2	471	8.4	15.0	9.3
DEC						
12...	1055	72	290	7.6	11.0	10.2
FEB 1997						
20...	1100	9.8	551	8.5	9.0	14.0
MAR						
19...	1115	77	377	6.7	10.0	11.5
APR						
17...	1050	5.6	505	8.6	9.5	14.8
MAY						
29...	1055	58	346	8.0	15.0	9.5
JUN						
17...	1155	1.7	557	8.0	22.0	9.0
AUG						
21...	1130	3.9	483	8.0	20.0	8.6

GOOSE CREEK BASIN

03292480 LITTLE GOOSE CREEK NEAR HARRODS CREEK, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°18'45", long 85°37'33", Jefferson County, Hydrologic Unit 05140101, at culvert on U.S. Highway 42 and at mile 1.8.

DRAINAGE AREA.--5.8 mi².

PERIOD OF RECORD.--February 1988 to current year.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S) (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 1996						
15...	1125	1.3	492	8.3	14.5	9.2
DEC						
12...	1210	54	297	7.6	11.5	10.1
FEB 1997						
20...	0950	6.0	620	8.2	8.5	11.9
MAR						
19...	0950	69	363	7.0	10.0	11.2
APR						
17...	0945	14	544	8.1	8.5	12.8
MAY						
29...	0935	51	349	8.1	15.0	9.5
JUL						
17...	0940	1.5	596	7.9	22.0	8.0
AUG						
21...	1025	3.6	539	8.1	19.5	8.3

BEARGRASS CREEK BASIN

03292500 SOUTH FORK BEARGRASS CREEK AT LOUISVILLE, KY

LOCATION.--Lat 38°12'41", long 85°42'09", Jefferson County, Hydrologic Unit 05140101, on right bank, 10 ft downstream of Trevilian Way Bridge at Louisville, 4.9 mi upstream from Middle Fork Beargrass, and at mile 6.5.

DRAINAGE AREA.--17.2 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to September 1940, August 1944 to September 1953, October 1954 to September 1983 (High water records only, October 1962 to June 1970), and June 1988 to current year. Monthly discharge only for October to December 1939, published in WSP 1305.

REVISED RECORDS.--WSP 1705: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 445.60 ft, Louisville city datum. Prior to Oct. 29, 1953, at datum 5.00 ft higher. Oct. 29, 1953, to June 24, 1970, at datum 3.00 ft higher. Prior to April 8, 1994, gage located 125 ft upstream at same datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 19, 1943 reached a stage of 18.1 ft, present datum, from information furnished by U.S. Army Corps of Engineers.

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

--DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	11	225	12	22	1940	19	20	99	17	4.6	4.3
2	7.9	12	38	11	18	1960	16	27	39	13	4.2	4.6
3	6.8	11	25	11	19	509	15	155	26	11	4.4	20
4	5.7	14	19	11	186	179	13	20	19	10	5.4	4.6
5	5.0	15	32	61	60	110	19	14	36	9.0	4.7	3.1
6	4.7	27	21	15	37	69	13	12	21	8.4	4.5	3.3
7	4.7	54	15	13	29	46	11	9.1	19	7.9	4.4	3.5
8	5.0	27	13	12	34	34	11	111	129	7.3	4.6	4.2
9	8.6	21	12	13	23	58	9.6	29	50	6.8	134	25
10	8.3	10	11	12	19	47	8.2	16	29	6.7	21	22
11	5.0	7.9	10	9.7	18	29	8.2	12	22	6.7	8.0	4.4
12	3.9	6.6	131	8.9	16	24	16	11	18	6.3	22	2.9
13	3.7	5.9	31	8.3	20	36	8.9	8.8	234	5.8	10	1.9
14	4.2	5.3	21	7.8	29	63	7.9	8.3	172	98	7.4	1.6
15	4.0	4.7	16	23	18	26	7.1	7.4	65	13	12	1.5
16	4.5	4.9	109	19	15	21	7.1	6.9	216	8.0	5.4	1.3
17	7.2	7.1	357	9.7	14	19	7.6	6.0	173	7.5	3.9	1.3
18	113	9.4	71	8.8	13	412	6.4	5.5	375	6.9	4.1	1.2
19	12	5.7	40	8.7	12	151	16	11	103	6.5	6.6	1.5
20	7.9	5.0	28	8.2	11	68	7.5	12	55	6.0	20	2.6
21	6.9	11	22	7.6	12	45	30	5.8	126	6.3	5.9	2.7
22	4.9	5.5	19	55	9.8	32	9.4	4.4	58	9.5	5.0	2.1
23	20	4.3	39	20	8.9	24	7.8	4.7	33	8.1	3.4	2.0
24	5.6	4.2	252	91	9.1	20	6.6	45	24	18	3.5	5.8
25	4.9	149	45	45	9.1	38	6.1	58	20	6.5	6.0	.64
26	14	51	31	27	34	33	5.2	20	44	151	6.0	.52
27	8.0	17	24	198	28	17	17	11	17	16	3.6	.54
28	8.4	12	20	159	43	83	13	19	14	8.1	3.0	.49
29	6.6	10	17	57	---	83	7.2	146	45	8.8	3.4	1.3
30	6.2	67	15	37	---	31	7.9	30	31	5.2	3.1	.97
31	10	---	13	28	---	26	---	44	---	4.7	3.8	---
TOTAL	327.6	595.5	1722	1007.7	766.9	6233	337.7	889.9	2312	504.0	337.9	131.86
MEAN	10.6	19.9	55.5	32.5	27.4	201	11.3	28.7	77.1	16.3	10.9	4.40
MAX	113	149	357	198	186	1960	30	155	375	151	134	25
MIN	3.7	4.2	10	7.6	8.9	17	5.2	4.4	14	4.7	3.0	.49
CFSM	.61	1.15	3.23	1.89	1.59	11.7	.65	1.67	4.48	.95	.63	.26
IN.	.71	1.29	3.72	2.18	1.66	13.48	.73	1.92	5.00	1.09	.73	.29

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

MEAN	7.50	13.8	23.5	31.2	39.7	45.4	32.1	28.8	19.2	15.6	10.2	7.59
MAX	46.7	53.9	73.6	125	107	201	95.3	103	78.3	126	54.7	86.3
(WY)	1978	1974	1979	1950	1989	1997	1948	1961	1950	1973	1974	1979
MIN	.30	.84	1.32	.71	8.52	6.41	3.13	5.51	1.11	.89	.23	.000
(WY)	1953	1953	1977	1940	1953	1983	1976	1962	1959	1956	1952	1953

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1940 - 1997	
ANNUAL TOTAL	12723.7		15166.06			
ANNUAL MEAN	34.8		41.6		23.0	
HIGHEST ANNUAL MEAN					41.6	
LOWEST ANNUAL MEAN					9.35	
HIGHEST DAILY MEAN	357	Dec 17	1960	Mar 2	1960	Mar 2 1997
LOWEST DAILY MEAN	2.9	Aug 17	.49	Sep 28	.00	Sep 4 1940
ANNUAL SEVEN-DAY MINIMUM	3.3	Aug 13	1.5	Sep 24	.00	Sep 4 1940
INSTANTANEOUS PEAK FLOW			5290	Mar 2	5290	Mar 2 1997
INSTANTANEOUS PEAK STAGE			17.81	Mar 2	17.81	Mar 2 1997
INSTANTANEOUS LOW FLOW					.00	Sep 4 1940
ANNUAL RUNOFF (CFSM)	2.02		2.42		1.34	
ANNUAL RUNOFF (INCHES)	27.52		32.80		18.18	
10 PERCENT EXCEEDS	97		70		49	
50 PERCENT EXCEEDS	15		12		7.5	
90 PERCENT EXCEEDS	4.7		4.2		.90	

BEARGRASS CREEK BASIN

03292500 SOUTH FORK BEARGRASS CREEK AT LOUISVILLE, KY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1988 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1988 to September 1992.

pH: May 1988 to September 1992.

WATER TEMPERATURE: May 1988 to September 1992.

DISSOLVED OXYGEN: May 1988 to September 1992.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1010 microsiemens, Dec. 28-29, 1989; minimum, 122 microsiemens, May 16, 1990.

pH: Maximum, 9.5 units, Aug. 10, 1988; minimum, 4.9 units, Mar. 6-7, 1991.

WATER TEMPERATURE: Maximum, 33.6°C, Aug. 17, 1988; minimum, 0.0°C, Dec. 21, 29, 30, 1989.

DISSOLVED OXYGEN: Maximum, 16.2 mg/L, Mar. 1, 1989; minimum, 2.1 mg/L, Aug. 9, 1991.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S) (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 1996						
09...	1025	13	554	7.6	16.5	8.3
DEC						
09...	1010	10	650	7.7	5.5	10.9
FEB 1997						
11...	0835	17	659	7.7	6.0	10.5
MAR						
12...	1020	26	625	7.8	10.5	7.9
APR						
15...	1010	8.1	667	7.5	12.0	10.3
MAY						
28...	0950	7.3	584	7.4	17.5	7.4
JUL						
08...	0900	8.3	584	7.4	23.0	5.8
AUG						
19...	1125	4.3	1060	7.7	24.5	6.6

BEARGRASS CREEK BASIN

03292550 SOUTH FORK BEARGRASS CREEK AT WINTER AVENUE AT LOUISVILLE, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°14'04", long 85°45'50", Jefferson County, Hydrologic Unit 05140101, at bridge on Winter Avenue, 1.4 mi above Middle Fork Beargrass Creek, and at mile 3.3.

DRAINAGE AREA.--22.6 mi².

PERIOD OF RECORD.--February 1988 to current year.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S) (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 1996						
09...	1135	15	628	7.6	16.0	8.9
DEC						
09...	1225	13	637	7.8	6.5	12.6
FEB 1997						
11...	1040	19	705	7.5	6.5	15.1
MAR						
12...	0840	28	672	7.5	12.0	8.7
APR						
15...	0835	10	582	7.3	9.0	11.2
MAY						
28...	0845	12	594	7.1	17.0	6.8
Jul						
08...	1100	9.6	581	7.4	23.0	6.4
AUG						
19...	0825	5.1	583	7.4	24.0	5.6

BEARGRASS CREEK BASIN

03293000 MIDDLE FORK BEARGRASS CREEK AT LOUISVILLE, KY

LOCATION.--Lat 38°14'14", long 85°39'53", Jefferson County, Hydrologic Unit 05140101, on right bank 75 ft downstream from bridge on Old Cannons Lane at Louisville, 1.7 mi downstream from Weicher Creek, 5.4 mi upstream from mouth and 7.0 mi upstream from Ohio River.

DRAINAGE AREA.--18.9 mi², of which about 0.5 mi² does not contribute directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1944 to current year.

REVISED RECORDS.--WSP 1625: 1945(M), 1948(M), 1950(P), 1951-52(M), 1954-55(M), 1957(M), drainage area. WRD KY 72-1: 1950(M).

GAGE.--Water-stage recorder. Datum of gage is 476.70 ft, Louisville city datum. See WDR KY-90-1 for history of changes prior to July 26, 1971.

REMARKS.--Estimated daily discharges. Jan. 30 to Feb. 9. Records good except for period of estimated record which is fair..

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1943 reached a stage of 9.1 ft, present site and datum, from information by local residents.

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

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	6.4	214	12	25	1750	24	28	113	13	2.5	1.5
2	13	7.1	53	11	21	1610	20	24	55	9.6	1.9	1.3
3	11	5.2	34	10	23	429	17	161	35	7.7	7.2	19
4	8.4	4.7	24	9.3	200	159	15	34	26	6.7	7.5	2.6
5	7.6	4.8	33	51	70	107	21	22	26	5.8	2.8	1.8
6	6.7	18	26	16	42	74	16	21	19	5.5	2.3	1.4
7	5.8	40	18	13	33	53	13	14	18	4.8	2.2	1.1
8	4.9	31	15	11	40	41	12	94	111	4.6	2.5	.98
9	9.0	25	12	12	30	51	11	41	53	4.3	286	17
10	7.2	14	11	12	23	46	9.8	24	31	4.0	59	19
11	5.8	11	10	9.9	19	30	9.5	18	23	3.6	22	3.0
12	4.4	9.1	124	8.6	17	25	17	15	18	3.4	18	1.8
13	4.1	7.8	42	8.1	20	28	11	13	218	3.2	15	1.4
14	3.5	7.0	27	8.1	31	58	9.3	12	224	27	13	.99
15	3.3	6.2	21	19	22	29	8.5	10	86	6.5	18	.67
16	2.9	5.7	84	23	18	22	8.5	9.9	101	4.2	8.5	.46
17	5.1	6.9	369	11	16	19	8.9	9.1	95	3.7	6.3	.44
18	118	9.5	84	9.0	15	342	7.9	8.9	230	3.2	5.3	.55
19	19	6.7	52	8.9	14	122	18	9.5	81	3.1	7.1	.39
20	14	5.7	34	8.5	13	69	10	21	48	2.7	23	.72
21	8.9	11	25	7.7	14	47	27	9.2	177	3.0	7.3	.80
22	7.3	7.9	21	43	12	36	13	7.9	70	16	5.2	.62
23	18	6.3	32	22	11	27	10	7.3	40	50	4.0	.45
24	7.8	6.5	243	75	9.6	21	9.0	26	28	28	3.5	7.5
25	6.3	115	52	53	9.3	34	8.0	62	20	7.0	4.2	1.7
26	11	62	36	32	28	40	7.5	127	26	6.2	3.2	.83
27	9.5	29	28	188	32	22	15	33	15	5.1	2.6	.59
28	9.8	20	22	180	27	55	16	32	12	3.9	2.3	.57
29	8.0	16	18	70	---	96	10	138	18	3.2	2.0	.73
30	7.9	70	14	44	---	39	10	44	22	4.0	1.6	.84
31	7.1	---	13	33	---	31	---	48	---	2.6	1.5	---
TOTAL	372.3	575.5	1791	1019.1	834.9	5512	392.9	1123.8	2039	255.6	547.5	90.73
MEAN	12.0	19.2	57.8	32.9	29.8	178	13.1	36.3	68.0	8.25	17.7	3.02
MAX	118	115	369	188	200	1750	27	161	230	50	286	19
MIN	2.9	4.7	10	7.7	9.3	19	7.5	7.3	12	2.6	1.5	.39
CFSM	.64	1.01	3.06	1.74	1.58	9.41	.69	1.92	3.60	.44	.93	.16
IN.	.73	1.13	3.53	2.01	1.64	10.85	.77	2.21	4.01	.50	1.08	.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1997, BY WATER YEAR (WY)

MEAN	8.52	16.5	27.3	33.5	42.7	51.5	38.4	31.0	20.1	16.4	11.2	9.46
MAX	40.7	54.7	88.9	148	119	195	143	114	83.5	109	42.1	105
(WY)	1978	1974	1979	1950	1956	1964	1970	1961	1950	1973	1978	1979
MIN	.15	.71	1.90	3.31	3.44	4.20	5.27	3.04	.93	.37	.63	.033
(WY)	1954	1954	1954	1981	1954	1954	1954	1954	1954	1954	1953	1953

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1944 - 1997	
ANNUAL TOTAL	13197.92		14554.33			
ANNUAL MEAN	36.1		39.9		25.5	
HIGHEST ANNUAL MEAN					49.2	
LOWEST ANNUAL MEAN					3.76	
HIGHEST DAILY MEAN	430	May 11	1750	Mar 1	2000	Mar 9 1964
LOWEST DAILY MEAN	.28	Sep 3	.39	Sep 19	.00	Aug 27 1952
ANNUAL SEVEN-DAY MINIMUM	.51	Aug 29	.57	Sep 17	.00	Sep 28 1952
INSTANTANEOUS PEAK FLOW			5900	Mar 2	5900	Mar 2 1997
INSTANTANEOUS PEAK STAGE			8.70	Mar 2	8.70	Mar 2 1997
INSTANTANEOUS LOW FLOW					.00	Aug 27 1952
ANNUAL RUNOFF (CFSM)	1.91		2.11		1.35	
ANNUAL RUNOFF (INCHES)	25.98		28.65		18.32	
10 PERCENT EXCEEDS	88		72		53	
50 PERCENT EXCEEDS	17		14		10	
90 PERCENT EXCEEDS	4.5		2.7		1.9	

BEARGRASS CREEK BASIN

03293000 MIDDLE FORK BEARGRASS CREEK AT LOUISVILLE, KY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1988 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1988 to September 1992.

pH: April 1988 to September 1992.

WATER TEMPERATURE: April 1988 to September 1992.

DISSOLVED OXYGEN: April 1988 to September 1992.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1050 microsiemens, Dec. 19, 1991; minimum, 74 microsiemens, July 19, 1989.

pH: Maximum, 9.7 units, Apr. 19, 1989; minimum, 5.6 units, July 19, 1989.

WATER TEMPERATURE: Maximum, 35.4°C, August 16, 1988; minimum, 1.8°C, Dec. 10-13, 1988.

DISSOLVED OXYGEN: Maximum, 25.1 mg/L, Apr. 28, 1992; minimum, 0.4 mg/L, Oct. 26, 1991.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	STREAM. FLOW INSTAN- TANEOUS (FT ³ /S) (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 1996						
10...	0840	9.3	574	7.6	14.0	8.8
DEC						
10...	0840	11	624	7.8	7.5	12.2
FEB 1997						
10...	0910	23	673	7.2	7.0	13.2
MAR						
11...	0840	32	578	8.0	10.0	10.9
APR						
14...	0845	9.2	554	7.4	8.5	11.4
MAY						
27...	1115	33	484	7.8	15.5	10.9
JUL						
07...	0900	4.2	589	7.7	19.5	6.7
AUG						
18...	1235	4.9	608	8.2	25.0	9.9

BEARGRASS CREEK BASIN

03293200 MIDDLE FORK BEARGRASS CREEK AT SCENIC LOOP AT LOUISVILLE, KY

(Formerly published as AT BEALS BRANCH ROAD)

WATER-QUALITY RECORDS

LOCATION.--Lat 38°14'32", long 85°41'57", Jefferson County, Hydrologic Unit 05140101, at bridge on Beals Branch Road and at mile 1.9.

DRAINAGE AREA.--22.7 mi².

PERIOD OF RECORD.--February 1988 to current year.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S) (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 1996						
10...	1040	7.6	469	7.5	14.5	6.0
DEC						
10...	1100	13	620	8.0	5.5	11.5
FEB 1997						
10...	1100	27	671	7.5	6.0	13.1
MAR						
11...	1115	38	562	8.1	10.0	10.9
APR						
14...	1025	10	541	7.6	8.5	10.5
MAY						
27...	1005	38	461	7.6	15.0	8.9
JUL						
07...	1045	5.2	572	7.6	20.0	5.2
AUG						
18...	1110	5.4	579	7.7	24.5	4.0

BEARGRASS CREEK BASIN

03293530 MUDDY FORK AT MOCKINGBIRD VALLEY ROAD AT LOUISVILLE, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°16'35", long 85°41'37", Jefferson County, Hydrologic Unit 05140101, at culvert on Mockingbird Valley Road and at mile 1.5.

DRAINAGE AREA.--6.2 mi².

PERIOD OF RECORD.--February 1988 to current year.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S) (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 1996						
10...	1200	1.7	756	7.8	12.5	8.7
DEC						
10...	1225	4.7	721	7.9	7.5	11.8
FEB 1997						
10...	1220	8.3	721	7.4	6.5	12.4
APR						
14...	1200	4.1	633	7.5	12.0	14.3
MAY						
27...	0855	9.4	656	7.6	14.0	9.3
JUL						
07...	1230	1.5	342	7.6	19.5	8.5
AUG						
18...	0820	0.73	684	7.8	22.0	6.9

OHIO RIVER MAIN STEM
03294500 OHIO RIVER AT LOUISVILLE, KY

LOCATION.--Lat 38°16'49", long 85°47'57", Jefferson County, Hydrologic Unit 05140101, on left bank at downstream end of lock guide wall in lower pool at McAlpine Locks, at Louisville, 5.3 mi downstream from Beargrass Creek and at mile 607.3.

DRAINAGE AREA.--91,170 mi², approximately.

PERIOD OF RECORD.--January 1928 to current year. Prior to October 1935 monthly discharge only, published in WSP 1305. Gage-height records collected in this vicinity since 1871 are published in reports of National Weather Service.

REVISED RECORDS.--WSP 893: 1939.

GAGE.--Water-stage recorder. Datum of gage is 373.18 ft above sea level or 374.00 ft Ohio River datum. Prior to Oct. 1, 1939, and Oct. 1, 1943 to Sept. 30, 1946, various combinations of gages near Louisville were used. Oct. 1, 1939 to Sept. 30, 1943, water-stage recorders at Louisville and Kosmosdale, downstream from McAlpine Dam (4 mi and 20.1 mi, respectively), were used to determine discharge. Oct. 1, 1946 to Sept. 30, 1961, nonrecording gage at site 0.3 mi upstream at same datum. Oct. 1, 1952 to Sept. 30, 1970, upper nonrecording gage at dam 43, 25.9 mi downstream used as an auxiliary gage. Since Oct. 1, 1970, auxiliary water-stage recorder at Kosmosdale, 19.8 mi downstream. Datum of auxiliary gage is 372.75 ft above sea level or 373.67 ft above Ohio River Dam.

REMARKS.--Estimated daily discharges: many days. Records poor. Flow regulated by Ohio River system of locks, dams, and reservoirs.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163000	101000	276000	157000	257000	310000	231000	110000	409000	76500	30300	19300
2	146000	88400	314000	156000	224000	403000	212000	110000	387000	86000	28800	16000
3	119000	79100	348000	137000	176000	508000	187000	158000	338000	111000	16300	17300
4	109000	76400	370000	132000	173000	618000	169000	139000	341000	110000	17000	17600
5	109000	67900	369000	135000	191000	715000	148000	137000	327000	100000	35700	18500
6	98900	52300	335000	147000	277000	716000	135000	134000	304000	56000	24800	12800
7	80400	67600	295000	151000	270000	705000	129000	117000	268000	47000	23100	6770
8	54800	70200	249000	139000	265000	679000	124000	112000	243000	34300	3050	16200
9	49400	144000	213000	141000	249000	590000	104000	119000	299000	27800	15500	34600
10	43800	220000	176000	131000	231000	534000	97500	121000	236000	29200	22600	14200
11	33600	270000	162000	119000	203000	485000	85400	127000	201000	38500	18400	29500
12	36300	268000	162000	125000	183000	436000	82100	126000	175000	34800	16400	17900
13	42400	251000	177000	110000	154000	389000	76600	118000	138000	23000	27600	26600
14	38600	209000	208000	81200	140000	335000	103000	112000	153000	34500	23500	23200
15	35300	190000	225000	66600	136000	316000	107000	105000	170000	26000	33200	18900
16	28100	171000	225000	65100	123000	283000	103000	87600	173000	27000	23700	24600
17	41200	150000	331000	62700	129000	260000	101000	88300	199000	23100	30900	20000
18	21500	132000	316000	86900	131000	272000	89600	90500	201000	6560	62100	8420
19	37200	121000	270000	76300	109000	302000	99500	85500	206000	22600	103000	22700
20	66700	123000	245000	44900	110000	308000	88500	97300	190000	28300	120000	24100
21	90200	130000	216000	59400	122000	317000	88200	119000	173000	4930	104000	19400
22	117000	133000	183000	81200	129000	320000	84000	127000	135000	10200	78600	32100
23	140000	133000	153000	101000	154000	298000	63100	132000	125000	35700	81700	14200
24	139000	141000	171000	110000	164000	253000	63900	118000	98600	34000	64600	19800
25	139000	139000	190000	177000	165000	209000	65200	113000	64500	24600	42800	22000
26	141000	166000	199000	198000	167000	191000	71800	131000	49600	33700	19200	14600
27	127000	178000	202000	202000	154000	193000	80600	167000	64400	25300	32200	21700
28	119000	195000	195000	274000	155000	211000	84100	229000	78500	39600	37900	23200
29	107000	210000	192000	273000	---	219000	89900	255000	89500	43500	25300	16500
30	94400	214000	171000	300000	---	239000	101000	225000	71300	53600	19400	39100
31	101000	---	167000	283000	---	244000	---	212000	---	39000	17900	---
TOTAL	2668800	4490900	7305000	4322300	4948000	11858000	264000	4122200	5907400	1286290	1199550	611790
MEAN	86090	149700	235600	139400	176700	382500	108800	133000	196900	41490	38700	20390
MAX	163000	270000	370000	300000	277000	716000	231000	255000	409000	111000	120000	39100
MIN	21500	52300	153000	44900	109000	191000	63100	85500	49600	4930	3050	6770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1997, BY WATER YEAR (WY)

MEAN	37880	69820	124200	167000	194200	246000	204400	144600	85400	55500	44280	33310
MAX	153500	245900	321300	595800	430400	524300	403300	392900	234400	163400	151300	166600
(WY)	1980	1986	1973	1937	1939	1945	1948	1996	1981	1958	1958	1979
MIN	4377	6660	14090	21630	38010	69390	66480	29350	16400	8035	4924	6005
(WY)	1931	1931	1931	1931	1934	1969	1986	1941	1988	1930	1930	1930

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1929 - 1997	
ANNUAL TOTAL	67815000		51984230			
ANNUAL MEAN	185300		142400		116800	
HIGHEST ANNUAL MEAN					176700	
LOWEST ANNUAL MEAN					57390	
HIGHEST DAILY MEAN	573000	Jan 26	716000	Mar 6	1110000	Jan 27 1937
LOWEST DAILY MEAN	11700	Sep 4	3050	Aug 8	2100	Aug 12 1930
ANNUAL SEVEN-DAY MINIMUM	18000	Aug 30	15000	Sep 2	3530	Oct 15 1930
INSTANTANEOUS PEAK FLOW			735000		Mar 7	
INSTANTANEOUS PEAK STAGE			70.47		Mar 7	
10 PERCENT EXCEEDS	376000		288000		281000	
50 PERCENT EXCEEDS	161000		119000		72900	
90 PERCENT EXCEEDS	39400		22900		16800	

MILL CREEK BASIN

03294550 MILL CREEK CUTOFF NEAR LOUISVILLE, KY

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1988 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1988 to September 1992.

pH: May 1988 to September 1992.

WATER TEMPERATURE: May 1988 to September 1992.

DISSOLVED OXYGEN: May 1988 to September 1992.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,062 microsiemens, June 23, 1988; minimum, 76 microsiemens, Aug. 8, 1992.

pH: Maximum, 11.3 units, July 28, 29, 1989; minimum, 4.8 units, Sept. 12, 1988.

WATER TEMPERATURE: Maximum, 34.4°C, Sept. 21, 1989; minimum, 0.6°C, Dec. 28, 1990, Jan. 15, 16, 1992.

DISSOLVED OXYGEN: Maximum, 24.5 mg/L, Aug. 16, 1989; minimum, 0.3 mg/L, July 5, 23, 1991.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S) (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 1996						
07...	1245	1.5	709	7.8	17.5	16.6
DEC						
11...	1255	1.8	632	7.1	10.5	9.7
FEB 1997						
13...	1240	2.7	687	6.8	2.5	14.0
MAR						
20...	1310	12	372	7.2	14.0	10.9
APR						
10...	1210	3.5	607	8.3	15.0	18.2
MAY						
21...	1210	1.9	585	7.3	19.0	13.9
JUL						
09...	1150	2.2	711	7.5	26.0	16.0
AUG						
14...	1245	3.5	361	7.2	27.5	7.0

MILL CREEK BASIN

03294570 MILL CREEK AT ORELL ROAD NEAR LOUISVILLE, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°04'41", long 85°53'24", Jefferson County, Hydrologic Unit 05140101, at bridge on Orell Road, and at mile 1.5.

DRAINAGE AREA.-- 13.5 mi².

PERIOD OF RECORD.--February 1988 to current year.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S) (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 1996						
07...	1025	1.7	710	7.8	14.0	9.5
DEC						
11...	1045	2.3	416	7.4	7.5	10.8
FEB 1997						
13...	1050	2.8	425	6.5	1.5	13.1
MAR						
20...	1155	17	197	6.3	10.5	9.5
APR						
10...	1045	3.6	605	7.8	8.5	15.0
MAY						
21...	1025	2.4	477	7.2	16.0	5.9
JUL						
09...	1050	2.5	332	7.9	24.0	5.7
AUG						
14...	1045	4.4	405	7.6	24.5	4.6