

Water Resources Data Kentucky Water Year 1998

Water-Data Report KY-98-1



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



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

KENTUCKY RIVER BASIN

03284530 EAST HICKMAN CREEK NEAR EAST HICKMAN, KY

LOCATION.--Lat 37°56'59", long 84°27'19", Fayette County, Hydrologic Unit 05100205, on right bank, downstream side of bridge on Delong Road, 1.0 mi north of intersection with Walnut Hill Road, 1.6 mi south of intersection with Armstrong Mill Road, 2.0 mi north of East Hickman, and at mile 7.6.

DRAINAGE AREA.--15.1 mi².

PERIOD OF RECORD.--October 1997 to September 1998.

GAGE.--Water-stage recorder. Elevation of gage is 913.491 ft above sea level.

REMARKS.--Estimated daily discharges: Nov. 30 to Dec. 4 and Sept. 14-20, 23-30. Records fair except for discharges below .50 ft³/s and for periods of estimated record, which are poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	2.4	32	6.3	6.6	6.8	8.4	98	17	58	3.1	.25
2	.27	5.5	9.0	6.2	6.3	6.2	4.4	43	8.5	25	2.4	.25
3	.24	3.4	5.4	6.2	5.9	6.0	3.9	25	6.2	9.8	2.2	.10
4	.24	3.3	3.7	5.9	12	5.9	4.1	16	7.8	6.2	1.9	.45
5	.23	2.7	2.4	10	8.6	6.6	3.5	10	7.8	4.9	1.7	1.7
6	.19	2.6	1.8	49	8.6	5.6	3.3	8.3	5.9	4.0	1.6	1.9
7	.20	3.0	1.5	170	9.4	5.6	3.2	56	4.5	5.3	1.5	1.7
8	.22	3.5	1.4	76	10	11	7.8	68	4.0	6.9	1.4	1.2
9	.15	3.7	1.5	58	13	47	8.8	36	15	3.7	1.6	1.4
10	.09	3.2	20	41	17	23	9.5	22	38	3.0	1.5	.45
11	.12	2.8	12	27	140	19	5.8	12	25	2.3	1.3	.77
12	.07	2.5	9.4	32	244	13	4.7	9.0	33	1.9	1.0	.24
13	.01	2.3	7.9	31	95	8.9	4.2	7.4	37	2.3	.97	.14
14	1.3	9.5	6.9	22	52	7.5	5.1	6.3	25	13	1.6	.10
15	.89	4.5	6.2	18	33	6.5	4.2	5.4	58	5.8	1.3	.10
16	.51	3.4	5.6	17	27	5.9	118	4.8	28	11	1.0	.10
17	.50	2.9	5.2	13	22	5.1	88	4.2	15	7.2	.91	.08
18	.52	2.6	4.8	11	28	5.2	39	3.7	9.5	4.8	.88	.08
19	.54	2.3	4.5	11	26	4.7	66	3.4	9.1	3.8	.77	.07
20	.53	2.2	4.2	9.7	21	36	39	7.6	6.5	512	.54	.07
21	.58	4.8	4.1	8.9	17	47	20	5.6	42	106	.54	6.6
22	.51	9.6	7.8	9.8	15	34	21	5.2	28	34	.67	3.9
23	.57	3.9	6.2	19	14	23	15	51	58	17	.71	1.2
24	2.2	2.6	12	20	10	15	11	25	28	8.5	.63	.60
25	4.0	2.0	18	16	8.6	12	8.8	16	12	6.3	.48	.35
26	4.1	1.7	13	13	8.1	8.5	7.8	10	8.1	4.7	.39	.15
27	4.7	1.6	11	11	8.1	6.7	8.7	8.2	6.3	4.1	.32	.50
28	2.5	1.5	9.0	9.7	7.6	5.7	6.4	6.5	4.9	3.4	.36	.20
29	1.8	1.2	8.2	8.3	---	5.0	9.4	5.3	139	3.0	.43	.09
30	1.5	10	7.6	7.6	---	4.5	102	4.5	304	6.4	.55	.06
31	1.4	---	6.8	7.1	---	4.3	---	20	---	5.3	.45	---
TOTAL	30.93	107.2	249.1	750.7	873.8	401.2	641.0	603.4	991.1	889.6	34.70	24.80
MEAN	1.00	3.57	8.04	24.2	31.2	12.9	21.4	19.5	33.0	28.7	1.12	.83
MAX	4.7	10	32	170	244	47	118	98	304	512	3.1	6.6
MIN	.01	1.2	1.4	5.9	5.9	4.3	3.2	3.4	4.0	1.9	.32	.06

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

	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998
MEAN	1.00	3.57	8.04	24.2	31.2	12.9	21.4	19.5	33.0	28.7	1.12	.83
MAX	1.00	3.57	8.04	24.2	31.2	12.9	21.4	19.5	33.0	28.7	1.12	.83
(WY)	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998
MIN	1.00	3.57	8.04	24.2	31.2	12.9	21.4	19.5	33.0	28.7	1.12	.83
(WY)	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998

SUMMARY STATISTICS

FOR 1998 WATER YEAR

ANNUAL TOTAL	5597.53
ANNUAL MEAN	15.3
HIGHEST DAILY MEAN	512 Jul 20
LOWEST DAILY MEAN	.01 Oct 13
ANNUAL SEVEN-DAY MINIMUM	.09 Sep 14
INSTANTANEOUS PEAK FLOW	1000 Jul 20
INSTANTANEOUS PEAK STAGE	5.25 Jul 20
10 PERCENT EXCEEDS	33
50 PERCENT EXCEEDS	5.9
90 PERCENT EXCEEDS	.45

KENTUCKY RIVER BASIN

03284555 WEST HICKMAN CREEK NEAR EAST HICKMAN, KY

LOCATION.--Lat 37°56'04", long 84°30'08", Jessamine County, Hydrologic Unit 05100205, on center pier, downstream side of bridge on Ash Grove Pike (#1980), 0.7 mi northwest of intersection with Mackey Road, 1.9 mi northwest of East Hickman, 2.4 mi southeast of Nicholasville Road (US 27); and at mile 28.3.

DRAINAGE AREA.--20.5 mi².

PERIOD OF RECORD.--October 1997 to September 1998.

GAGE.--Water-stage recorder. Elevation of gage is 868.402 ft above sea level.

REMARKS.--No estimated daily discharges. Record fair.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	46	107	38	33	39	87	231	117	191	46	29
2	22	52	72	37	30	37	51	133	72	119	42	27
3	22	40	55	37	29	35	47	101	58	86	39	27
4	23	41	59	36	38	39	49	87	75	69	38	26
5	23	31	48	83	49	42	45	73	73	59	37	24
6	22	30	41	313	62	36	42	64	58	51	39	23
7	25	32	36	610	68	37	41	358	49	67	37	26
8	22	39	32	339	76	76	89	201	47	76	40	24
9	23	34	33	195	94	265	98	129	128	52	42	24
10	20	33	155	123	128	104	114	97	211	45	42	23
11	22	27	83	92	398	77	73	80	113	42	34	23
12	22	27	61	119	365	66	61	65	187	39	35	25
13	22	28	52	95	207	58	56	59	203	39	36	25
14	37	76	45	77	134	53	67	56	128	122	49	26
15	26	45	40	70	101	47	59	49	202	61	37	24
16	24	36	36	62	90	42	495	47	92	93	37	24
17	23	32	33	61	91	40	224	44	71	64	35	25
18	24	30	31	54	111	43	137	40	60	49	34	24
19	24	29	30	50	86	41	223	40	71	44	32	25
20	24	27	30	46	73	189	128	75	55	893	30	25
21	23	45	29	41	65	124	99	64	265	251	29	53
22	24	82	68	52	58	100	106	63	167	152	30	29
23	23	48	42	102	52	78	84	356	359	109	33	25
24	36	40	95	74	46	66	72	186	119	84	31	23
25	43	37	102	62	41	67	65	113	87	69	30	23
26	57	32	68	54	39	58	59	87	70	58	30	23
27	64	31	59	48	43	53	72	79	60	53	29	24
28	39	27	51	43	42	52	53	70	53	47	28	23
29	34	29	46	39	---	48	69	53	323	45	29	23
30	30	57	45	36	---	45	434	51	466	75	30	23
31	30	---	40	35	---	44	---	189	---	66	27	---
TOTAL	875	1163	1724	3123	2649	2101	3299	3340	4039	3270	1087	768
MEAN	28.2	38.8	55.6	101	94.6	67.8	110	108	135	105	35.1	25.6
MAX	64	82	155	610	398	265	495	358	466	893	49	53
MIN	20	27	29	35	29	35	41	40	47	39	27	23

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

	MEAN	28.2	38.8	55.6	101	94.6	67.8	110	108	135	105	35.1	25.6
MAX	28.2	38.8	55.6	101	94.6	67.8	110	108	135	105	35.1	25.6	
(WY)	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998
MIN	28.2	38.8	55.6	101	94.6	67.8	110	108	135	105	35.1	25.6	
(WY)	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998

SUMMARY STATISTICS

FOR 1998 WATER YEAR

ANNUAL TOTAL	27438	
ANNUAL MEAN	75.2	
HIGHEST DAILY MEAN	893	Jul 20
LOWEST DAILY MEAN	20	Oct 10
ANNUAL SEVEN-DAY MINIMUM	22	Oct 6
INSTANTANEOUS PEAK FLOW	3040	Jul 20
INSTANTANEOUS PEAK STAGE	7.43	Jul 20
10 PERCENT EXCEEDS	131	
50 PERCENT EXCEEDS	49	
90 PERCENT EXCEEDS	25	

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR			FOR 1998 WATER YEAR			WATER YEARS 1943 - 1998	
ANNUAL TOTAL	232153.7			197963.14				
ANNUAL MEAN	636			542			478	
HIGHEST ANNUAL MEAN							1184	
LOWEST ANNUAL MEAN							119	
HIGHEST DAILY MEAN	16100	Mar	2	10900	Jan	8	35100	Jul 20 1996
LOWEST DAILY MEAN	1.0	Oct	13	.72	Sep	17	.00	Jul 21 1944
ANNUAL SEVEN-DAY MINIMUM	2.3	Oct	9	.93	Sep	12	.00	Jul 29 1944
INSTANTANEOUS PEAK FLOW				15300	Jan	8	52400	Jul 20 1996
INSTANTANEOUS PEAK STAGE				11.35	Jan	8	21.81	Dec 9 1978
INSTANTANEOUS LOW FLOW							1.3	Oct 12 1994
ANNUAL RUNOFF (CFSM)	2.00			1.71			1.50	
ANNUAL RUNOFF (INCHES)	27.16			23.16			20.41	
10 PERCENT EXCEEDS	1110			1130			1080	
50 PERCENT EXCEEDS	142			186			126	
90 PERCENT EXCEEDS	10			4.1			3.0	

KENTUCKY RIVER BASIN

03286500 KENTUCKY RIVER AT LOCK 7 AT 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 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	880	402	1970	1740	3820	5350	4820	23000	3660	16300	1190	307
2	510	442	2070	1470	3540	5200	5500	26900	3450	13300	1340	347
3	294	530	2360	1400	3280	5150	5400	28100	2900	8000	1520	367
4	247	466	2350	1460	3330	4560	6650	22800	2910	4660	1610	469
5	242	525	2080	1840	4370	4170	12800	22000	5400	3650	1350	680
6	234	500	1900	3090	6700	3970	16100	21600	9000	3070	980	755
7	226	655	1880	11000	9450	3820	14000	19200	9700	3260	930	720
8	221	570	1620	36700	9750	3750	11400	22400	7800	3650	880	271
9	226	645	1420	31000	11000	9100	11000	22000	6950	4350	760	224
10	214	755	1520	19800	16200	15000	13100	19300	10200	6100	670	284
11	222	730	2160	12400	26100	14400	14000	16900	17100	5800	795	785
12	219	680	2380	8800	40500	12000	12800	16400	19600	3940	1030	505
13	201	740	2460	6950	35000	9800	11500	15200	22200	2680	1110	260
14	199	720	2280	5750	24600	7600	10100	13600	21000	2780	1370	305
15	211	730	2160	4910	16300	6150	8550	9750	19500	2910	1180	745
16	226	950	1900	4730	11600	5300	11300	6950	16800	2550	1090	690
17	249	1210	1420	4890	9550	4580	27600	5200	13100	3350	1300	755
18	199	1150	1280	4910	9950	4140	40600	4050	9600	2950	1950	575
19	221	1080	1210	4800	11800	4820	52000	3350	7450	2600	2920	540
20	258	955	905	4560	12500	10200	59000	3150	6800	9000	3040	380
21	351	890	885	4300	12200	22700	59000	2770	5900	12800	2480	254
22	341	875	970	4140	10900	25600	57500	2720	7500	7650	1880	281
23	262	1390	1130	4880	9250	21500	48000	8600	13700	7400	1440	600
24	297	1950	1240	7150	8200	16600	30700	19900	13600	5300	1040	865
25	343	2010	2050	8900	7900	12900	21600	19700	10600	3300	940	800
26	379	1770	2520	8500	7600	10500	17300	14300	7700	2370	790	910
27	411	1530	2020	7400	7050	8850	14700	9450	5650	1900	750	755
28	480	1320	1810	5950	5800	7550	13100	6850	4360	1570	505	333
29	620	1150	1830	4430	---	6450	11900	5650	4100	1340	575	275
30	550	1440	2070	3990	---	4940	14400	4730	10700	1130	402	314
31	515	---	2030	3900	---	4360	---	3790	---	1230	550	---
TOTAL	10048	28760	55880	235740	338240	281010	636420	420310	298930	150890	38367	15351
MEAN	324	959	1803	7605	12080	9065	21210	13560	9964	4867	1238	512
MAX	880	2010	2520	36700	40500	25600	59000	28100	22200	16300	3040	910
MIN	199	402	885	1400	3280	3750	4820	2720	2900	1130	402	224

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1998, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998
MEAN	1557	4013	6888	12600	13160	19280
MAX	3052	9309	12670	22370	26380	29500
(WY)	1994	1997	1994	1994	1997	1999
MIN	324	959	1803	7605	8727	9065
(WY)	1998	1998	1998	1998	1996	1998

SUMMARY STATISTICS

FOR 1997 CALENDAR YEAR

FOR 1998 WATER YEAR

WATER YEARS 1993 - 1998

ANNUAL TOTAL	2625796	2509946	
ANNUAL MEAN	7194	6877	
HIGHEST ANNUAL MEAN			7756
LOWEST ANNUAL MEAN			11250
HIGHEST DAILY MEAN	87900	59000	5964
LOWEST DAILY MEAN	195	199	137
ANNUAL SEVEN-DAY MINIMUM	213	213	163
INSTANTANEOUS PEAK FLOW		58700	92800
INSTANTANEOUS PEAK STAGE		25.38	37.90
10 PERCENT EXCEEDS	18500	17200	19700
50 PERCENT EXCEEDS	2270	3350	3560
90 PERCENT EXCEEDS	381	374	606

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: Aug. 9. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1410	366	2170	1930	3790	5200	4620	25300	3730	17200	1210	188
2	689	456	1980	1490	3660	5200	5340	26400	3760	15400	1380	283
3	284	634	2110	1390	3620	5590	5220	30400	3010	10300	1520	345
4	229	452	2210	1360	3630	4770	5520	25200	2730	5110	1780	580
5	232	474	2020	1750	4190	4070	9160	21700	4340	3810	1540	1040
6	230	319	1920	3340	5450	3710	15400	22600	7980	3210	1010	1220
7	223	611	2070	8270	9390	3640	14500	19800	9920	3350	1100	1160
8	213	400	1670	39700	9560	3500	11900	23600	8860	3630	1110	256
9	211	526	1420	37500	10300	8030	10800	23500	7320	4380	932	166
10	213	733	1420	24000	14100	15700	12500	20800	9940	4820	754	300
11	215	667	2210	15300	23900	15900	13800	17200	15800	6310	868	1330
12	216	562	2230	10900	45700	13700	13100	16800	20500	4510	834	809
13	213	682	2320	8740	41000	11400	12100	15900	23600	2910	867	333
14	235	639	2270	7200	29300	8500	11000	14000	23700	2830	1520	420
15	231	565	2340	6120	19500	6720	9190	11300	22700	3640	1310	1290
16	243	729	2160	5570	13900	5660	10400	7760	20000	2590	1210	1190
17	289	1070	1520	5690	11000	4840	25200	5650	15400	4060	1020	1330
18	159	1070	1390	5750	10300	4060	38200	4280	11800	4000	1350	970
19	138	1120	1360	5700	12000	4330	47500	3530	8840	3090	2040	896
20	170	976	848	5380	13100	7190	57300	3390	8610	7390	2850	576
21	346	868	864	5100	13100	22000	55800	2700	7310	18500	2630	299
22	321	752	1010	4910	12200	27300	55700	2580	9820	8580	2070	286
23	173	991	1290	5170	10600	24300	52500	6960	13900	7780	1670	826
24	220	1560	1360	6440	9290	18700	36500	21700	16100	6680	1090	1240
25	309	1870	2090	8610	8660	14800	23900	21800	13000	3890	1030	1100
26	392	1730	3140	9340	8540	12100	18700	16500	9860	2700	859	1410
27	420	1560	2300	8870	7970	10300	15900	11300	7260	2150	876	1170
28	441	1340	1910	6990	5830	8930	14100	7590	5610	1800	471	350
29	641	1150	2040	4680	---	7440	12700	5860	4550	1560	682	245
30	539	1370	2500	4060	---	5080	14600	4950	7120	1230	367	317
31	553	---	2420	3820	---	4380	---	3990	---	1270	676	---
TOTAL	10398	26242	58562	265070	363580	297040	633150	445040	327070	168680	38626	21925
MEAN	335	875	1889	8551	12990	9582	21110	14360	10900	5441	1246	731
MAX	1410	1870	3140	39700	45700	27300	57300	30400	23700	18500	2850	1410
MIN	138	319	848	1360	3620	3500	4620	2580	2730	1230	367	166

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1998, BY WATER YEAR (WY)

	1966	4224	9083	11000	12650	15300	11780	8495	4616	2201	1938	1716
MAX	13680	12450	31030	31910	34850	33640	35920	26910	18890	5441	6238	10860
(WY)	1990	1987	1979	1974	1989	1975	1972	1983	1997	1998	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 1997 CALENDAR YEAR

FOR 1998 WATER YEAR

WATER YEARS 1961 - 1998

ANNUAL TOTAL	2708620	2655383	7055
ANNUAL MEAN	7421	7275	11050
HIGHEST ANNUAL MEAN			2826
LOWEST ANNUAL MEAN			125000
HIGHEST DAILY MEAN	85900	Mar 5	Dec 10 1978
LOWEST DAILY MEAN	138	Oct 19	Sep 4 1984
ANNUAL SEVEN-DAY MINIMUM	209	Oct 14	Nov 8 1991
INSTANTANEOUS PEAK FLOW		59300	Apr 21 130000
INSTANTANEOUS PEAK STAGE		23.35	Apr 22 49.04
10 PERCENT EXCEEDS	18400	19600	17900
50 PERCENT EXCEEDS	2240	3640	3090
90 PERCENT EXCEEDS	355	360	486

KENTUCKY RIVER BASIN

03287580 NORTH ELKHORN CREEK AT BRYANT ROAD NEAR CADENTOWN, KY

LOCATION.--Lat 38°01'42", long 84°24'07", Fayette County, Hydrologic Unit 05100205, on right bank, downstream side of bridge on Bryant Road, 0.7 miles northeast of intersection with I-75, 1.6 miles southeast of intersection of US 60 (Winchester Road), 1.8 miles northeast of Cadentown, and at mile 90.3.

DRAINAGE AREA.--2.20 mi².

PERIOD OF RECORD.--October 1997 to September 1998.

GAGE.--Water-stage recorder. Elevation of gage is 942.109 ft above sea level.

REMARKS.--Estimated daily discharges: Nov. 30, Dec. 29 to Jan. 4, Feb. 5-9, Aug. 9, and Sept. 14-21, 28-30. Record fair except for periods of estimated record, which are poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.28	2.2	1.3	1.5	2.3	2.5	17	3.9	16	.58	.00
2	.00	.36	.88	1.2	1.4	2.2	1.1	9.2	1.4	9.3	.39	.00
3	.00	.39	.48	1.1	1.4	2.1	.90	6.5	.54	5.5	.26	.00
4	.00	.38	.36	1.0	1.9	2.1	.86	5.3	.59	3.5	.17	.00
5	.00	.35	.27	1.1	2.2	1.5	.67	4.4	.86	2.2	.14	.00
6	.00	.33	.23	13	2.5	.73	.63	3.5	.74	1.5	.12	.00
7	.00	.34	.19	50	2.7	.73	.60	15	.55	1.2	.13	.00
8	.00	.40	.16	27	3.0	1.4	2.5	16	.46	1.8	.11	.00
9	.00	.42	.15	12	3.2	13	6.3	9.0	3.2	1.1	.10	.00
10	.00	.39	1.7	8.0	4.5	7.9	7.2	6.6	11	.73	.10	.00
11	.00	.32	.91	5.7	24	5.8	5.2	5.0	9.4	.52	.07	.00
12	.00	.26	.62	6.8	41	4.7	3.9	3.8	10	.39	.05	.00
13	.00	.28	.54	7.4	19	4.0	3.2	2.3	12	.37	.04	.00
14	.00	.69	.44	5.8	11	3.6	3.2	3.3	7.0	1.8	.05	.00
15	.02	.57	.37	4.7	8.1	3.2	2.8	2.2	5.5	2.0	.06	.00
16	.01	.46	.29	3.7	6.9	2.9	28	1.5	3.6	3.8	.05	.00
17	.00	.37	.25	3.3	6.6	2.8	15	1.0	1.8	3.9	.05	.00
18	.01	.32	.21	3.1	8.7	2.8	8.3	.74	.75	2.1	.03	.00
19	.01	.28	.19	3.0	7.3	2.5	13	.60	2.0	1.4	.02	.00
20	.00	.25	.17	2.7	6.0	8.0	8.9	.82	1.2	89	.01	.00
21	.00	.41	.17	2.4	4.8	7.7	7.2	1.4	5.1	19	.00	2.0
22	.00	.86	.49	2.7	4.1	6.8	9.5	1.2	5.3	9.8	.00	.21
23	.00	.60	1.7	6.4	3.8	5.6	7.9	16	12	6.0	.00	.07
24	.08	.47	3.9	5.4	3.2	4.6	6.0	12	7.0	3.4	.00	.01
25	.23	.41	6.7	3.9	3.0	4.4	4.6	6.6	4.2	1.3	.00	.00
26	.48	.36	4.2	3.2	2.9	3.9	3.9	4.4	1.9	.95	.00	.00
27	.55	.33	2.9	2.9	3.8	3.4	3.6	3.3	.71	.88	.00	.00
28	.33	.31	2.1	2.4	2.9	3.2	2.9	1.8	.58	.72	.00	.00
29	.24	.30	1.8	2.1	---	2.9	3.2	.75	59	.61	.00	.00
30	.20	3.4	1.5	1.9	---	1.8	22	.60	56	.65	.00	.00
31	.20	---	1.4	1.7	---	1.2	---	1.5	---	.77	.00	---
TOTAL	2.36	14.89	37.47	196.9	191.4	119.76	185.56	163.31	228.28	192.19	2.53	2.29
MEAN	.076	.50	1.21	6.35	6.84	3.86	6.19	5.27	7.61	6.20	.082	.076
MAX	.55	3.4	6.7	50	41	13	28	17	59	89	.58	2.0
MIN	.00	.25	.15	1.0	1.4	.73	.60	.60	.46	.37	.00	.00

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

MEAN	.076	.50	1.21	6.35	6.84	3.86	6.19	5.27	7.61	6.20	.082	.076
MAX	.076	.50	1.21	6.35	6.84	3.86	6.19	5.27	7.61	6.20	.082	.076
(WY)	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998
MIN	.076	.50	1.21	6.35	6.84	3.86	6.19	5.27	7.61	6.20	.082	.076
(WY)	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998

SUMMARY STATISTICS

FOR 1998 WATER YEAR

ANNUAL TOTAL	1336.94
ANNUAL MEAN	3.66
HIGHEST DAILY MEAN	89 Jul 20
LOWEST DAILY MEAN	.00 Oct 1
ANNUAL SEVEN-DAY MINIMUM	.00 Oct 1
INSTANTANEOUS PEAK FLOW	281 Jun 29
INSTANTANEOUS PEAK STAGE	5.11 Jun 29
10 PERCENT EXCEEDS	8.2
50 PERCENT EXCEEDS	1.3
90 PERCENT EXCEEDS	.00

KENTUCKY RIVER BASIN

03287590 NORTH ELKHORN CREEK AT WINCHESTER ROAD AT LEXINGTON, KY

LOCATION.--Lat 38°02'54", long 84°24'40", Fayette County, Hydrologic Unit 05100205, on right bank, downstream side of culvert on Winchester Road (US 60), 0.5 miles east of I-75, 0.8 miles west of intersection with Bryant Road (1425), 2.2 miles east of Lexington, and at mile 89.1.

DRAINAGE AREA.--4.05 mi².

PERIOD OF RECORD.--October 1997 to September 1998.

GAGE.--Water-stage recorder. Elevation of gage is 921.258 ft above sea level.

REMARKS.--Estimated daily discharges: Nov. 30, Dec. 29 to Jan. 3, June 29 to July 7, and Aug. 9. Records fair except for discharges below 5.0 ft³/s and for periods of estimated record, which are poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	1.2	5.6	2.2	2.7	3.6	6.3	34	7.3	32	.70	.07
2	.02	1.6	2.2	2.0	2.7	3.5	2.6	17	3.2	19	.46	.05
3	.02	1.3	1.6	1.9	2.5	3.3	2.2	11	1.7	12	.36	.04
4	.02	1.4	2.1	1.8	3.5	3.6	2.4	8.6	3.0	8.2	.29	.03
5	.00	.68	1.2	5.2	4.5	3.2	1.8	6.7	2.9	4.5	.42	.02
6	.00	.37	.87	34	5.0	1.8	1.6	5.4	1.9	3.0	.33	.01
7	.00	.58	.68	102	5.3	1.7	1.4	40	1.3	2.7	.18	.00
8	.00	2.9	.53	54	5.9	5.0	5.1	33	1.1	6.0	.21	.00
9	.00	1.9	.59	25	7.4	32	10	18	10	3.5	.26	.00
10	.00	1.3	9.3	15	11	15	12	12	19	3.6	.30	.00
11	.00	1.2	3.3	10	62	9.3	7.0	8.5	16	2.5	.28	.00
12	.00	.95	2.0	14	73	6.7	4.8	6.4	22	1.1	.27	.00
13	.00	3.1	1.4	13	34	5.5	3.8	5.5	26	1.6	.25	.00
14	.28	3.7	1.1	9.6	21	4.7	5.2	7.3	13	8.3	.49	.00
15	.10	1.5	.87	8.7	15	3.8	3.5	4.6	10	4.7	.17	.00
16	.10	1.1	.72	7.3	13	3.4	65	3.5	6.1	10	.15	.00
17	.10	.74	.55	6.9	13	3.3	29	2.6	3.8	6.8	.18	.00
18	.07	.54	.50	6.1	18	3.5	16	2.0	2.2	3.8	.15	.00
19	.05	.41	.42	5.9	14	3.2	29	1.6	5.9	3.0	.14	.00
20	.04	.38	.42	5.6	11	22	17	3.5	2.9	357	.10	.00
21	.03	4.2	.42	5.3	8.2	17	13	4.5	13	35	.26	5.8
22	.03	3.9	2.4	5.8	6.6	13	19	3.4	11	18	.19	.64
23	.03	1.5	2.3	12	5.8	9.0	15	41	34	11	.15	.42
24	1.5	.91	8.2	9.2	4.9	6.7	11	23	13	6.4	.09	.38
25	.89	.69	9.9	6.6	4.2	6.5	7.7	12	7.4	2.8	.05	.25
26	3.8	.72	5.6	5.4	4.2	5.3	6.1	7.2	4.2	1.8	.04	.15
27	1.8	.67	4.3	4.5	5.6	4.5	6.3	5.6	2.3	1.4	.03	.12
28	.66	.65	3.5	3.8	4.3	4.0	4.4	3.7	1.7	1.1	.02	.09
29	.33	.66	3.0	3.5	---	3.7	6.4	2.2	130	.86	.03	.07
30	.23	11	2.7	3.1	---	3.1	55	1.7	82	2.2	.15	.06
31	.17	---	2.5	2.8	---	2.4	---	7.0	---	1.4	.12	---
TOTAL	10.30	51.75	80.77	392.2	368.3	213.3	369.6	342.5	457.9	575.26	6.82	8.20
MEAN	.33	1.73	2.61	12.7	13.2	6.88	12.3	11.0	15.3	18.6	.22	.27
MAX	3.8	11	9.9	102	73	32	65	41	130	357	.70	5.8
MIN	.00	.37	.42	1.8	2.5	1.7	1.4	1.6	1.1	.86	.02	.00

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

	MEAN	MAX	(WY)	MIN	(WY)
1998	.33	3.8	1998	.00	1998
1998	1.73	11	1998	.37	1998
1998	2.61	9.9	1998	.42	1998
1998	12.7	102	1998	1.8	1998
1998	13.2	73	1998	2.5	1998
1998	6.88	32	1998	1.7	1998
1998	12.3	65	1998	1.4	1998
1998	11.0	41	1998	1.6	1998
1998	15.3	130	1998	1.1	1998
1998	18.6	357	1998	.86	1998
1998	.22	.70	1998	.02	1998
1998	.27	5.8	1998		1998

SUMMARY STATISTICS

FOR 1998 WATER YEAR

ANNUAL TOTAL	2876.90
ANNUAL MEAN	7.88
HIGHEST DAILY MEAN	357 Jul 20
LOWEST DAILY MEAN	.00 Oct 5
ANNUAL SEVEN-DAY MINIMUM	.00 Oct 5
INSTANTANEOUS PEAK FLOW	1640 Jul 20
INSTANTANEOUS PEAK STAGE	6.78 Jul 20
10 PERCENT EXCEEDS	16
50 PERCENT EXCEEDS	3.0
90 PERCENT EXCEEDS	.04

KENTUCKY RIVER BASIN

03287600 NORTH ELKHORN CREEK AT BRYAN STATION ROAD AT MONTROSE, KY

LOCATION.--Lat 38°04'35", long 84°24'48", Fayette County, Hydrologic Unit 05100205, on right bank, downstream side of bridge on Bryan Station Road (Highway 57), 100 ft southwest of intersection of Briar Hill Road (highway 1970) and Bryan Station Road (Highway 57), 0.5 miles Northwest of Montrose, and at mile 86.0.

DRAINAGE AREA.--21.5 mi².

PERIOD OF RECORD.--October 1997 to September 1998.

GAGE.--Water-stage recorder. Elevation of gage is 892.042 ft above sea level.

REMARKS.--Estimated daily discharges: Nov. 30, Dec. 1, Aug. 9, 17 to Sept. 21, and Sept. 24-30. Records fair except for periods of estimated record, which are poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	2.1	25	8.0	8.8	9.7	26	174	26	134	4.3	.12
2	.16	8.7	9.9	7.6	8.0	8.6	9.9	81	8.6	66	3.2	.07
3	.14	6.3	7.0	7.5	7.3	8.2	8.0	54	4.8	37	2.6	.06
4	.12	4.3	8.7	7.0	8.7	9.1	9.9	38	8.5	26	2.2	.04
5	.10	2.9	6.6	25	17	11	6.9	27	11	18	1.8	.03
6	.07	2.4	4.7	199	19	6.7	5.8	22	6.0	12	1.8	.02
7	.04	2.7	4.0	618	20	6.4	5.1	212	3.5	9.6	1.9	.01
8	.00	5.2	3.7	268	24	19	17	140	2.7	18	2.0	.00
9	.00	4.5	3.9	115	33	171	31	78	36	8.1	1.9	.00
10	.00	3.6	59	71	56	69	41	53	60	6.2	1.6	.00
11	.00	3.1	19	47	348	44	20	35	46	4.8	1.2	.00
12	.00	2.5	11	61	512	32	14	24	93	3.3	.95	.00
13	.00	8.1	8.3	58	188	25	11	36	124	3.1	.77	.00
14	.90	13	6.8	43	107	20	16	74	50	26	2.2	.00
15	.40	6.5	5.9	35	72	16	11	28	38	13	1.4	.00
16	.20	5.0	5.1	27	60	14	329	19	19	26	.89	.00
17	.24	3.7	4.6	25	58	13	122	14	11	18	.75	.00
18	.16	3.1	4.1	21	87	13	68	11	7.1	9.2	.60	.00
19	.12	2.8	3.8	20	61	11	134	8.8	24	7.9	.54	.00
20	.09	2.7	3.7	17	46	97	80	17	9.0	1830	.42	.00
21	.07	10	3.7	15	32	84	54	18	68	146	.60	13
22	.06	13	19	17	25	65	95	14	60	68	.40	1.9
23	.04	6.7	9.0	64	22	45	74	148	137	40	.30	.63
24	3.7	5.0	35	48	17	31	52	75	62	24	.17	.31
25	2.4	4.0	51	32	14	27	36	35	33	15	.10	.24
26	15	4.4	23	24	13	21	27	20	20	10	.07	.20
27	4.0	4.8	17	20	15	17	29	16	12	8.5	.04	.17
28	1.3	5.0	12	17	12	15	18	10	8.5	6.7	.03	.14
29	.97	4.9	11	14	---	12	23	6.6	1730	5.6	.04	.08
30	.74	42	10	12	---	10	337	5.0	821	12	.20	.06
31	.62	---	8.4	10	---	8.8	---	24	---	8.1	.15	---
TOTAL	31.82	193.0	403.9	1953.1	1890.8	939.5	1710.6	1517.4	3539.7	2620.1	35.12	17.08
MEAN	1.03	6.43	13.0	63.0	67.5	30.3	57.0	48.9	118	84.5	1.13	.57
MAX	15	42	59	618	512	171	337	212	1730	1830	4.3	13
MIN	.00	2.1	3.7	7.0	7.3	6.4	5.1	5.0	2.7	3.1	.03	.00

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

MEAN	1.03	6.43	13.0	63.0	67.5	30.3	57.0	48.9	118	84.5	1.13	.57
MAX	1.03	6.43	13.0	63.0	67.5	30.3	57.0	48.9	118	84.5	1.13	.57
(WY)	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998
MIN	1.03	6.43	13.0	63.0	67.5	30.3	57.0	48.9	118	84.5	1.13	.57
(WY)	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998

SUMMARY STATISTICS

FOR 1998 WATER YEAR

ANNUAL TOTAL	14852.12
ANNUAL MEAN	40.7
HIGHEST DAILY MEAN	1830
LOWEST DAILY MEAN	.00
ANNUAL SEVEN-DAY MINIMUM	.00
INSTANTANEOUS PEAK FLOW	7900
INSTANTANEOUS PEAK STAGE	10.23
10 PERCENT EXCEEDS	71
50 PERCENT EXCEEDS	10
90 PERCENT EXCEEDS	.09

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: Dec. 12-Jan. 22. Records fair except for periods of estimated record, which are poor.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	5.1	208	54	76	75	92	1480	511	1460	64	4.2
2	2.1	5.8	94	47	69	65	91	644	205	501	45	4.2
3	1.7	5.3	49	49	61	61	65	404	110	309	37	4.1
4	1.7	7.1	38	48	69	57	67	334	84	192	31	3.4
5	1.5	11	32	52	77	59	62	266	76	135	26	3.4
6	1.3	7.7	25	500	88	57	53	190	73	93	22	3.3
7	1.1	6.2	19	1300	83	50	46	293	58	72	20	3.1
8	1.1	5.7	17	2500	88	57	45	863	45	71	18	2.6
9	1.1	5.3	15	900	104	563	106	516	102	66	19	2.4
10	1.1	4.3	70	600	166	504	161	367	264	48	26	2.2
11	1.0	4.2	220	350	731	338	150	241	337	38	52	2.2
12	.99	4.5	100	280	3170	262	100	185	261	32	31	2.1
13	.96	4.7	60	350	1670	206	80	159	678	27	20	1.8
14	2.1	12	47	280	896	155	77	325	519	37	17	2.2
15	2.4	22	39	220	633	117	76	245	329	91	16	3.0
16	1.3	22	32	180	501	96	737	145	212	63	14	2.5
17	.91	14	27	160	429	86	1170	102	124	77	14	2.4
18	.65	9.2	23	140	450	80	460	78	85	65	13	2.6
19	.62	7.0	20	120	422	76	595	64	70	46	12	4.8
20	.62	5.7	19	110	348	218	606	60	80	4170	10	3.6
21	.62	5.7	18	105	279	533	423	61	324	4460	8.9	4.1
22	.62	12	37	100	214	458	573	57	614	731	8.3	5.9
23	.62	27	74	187	178	364	610	268	1430	450	7.6	3.8
24	1.1	25	100	305	142	281	424	603	660	299	6.7	13
25	4.7	16	330	247	115	210	309	555	356	193	5.8	11
26	3.8	11	280	198	97	176	234	319	215	127	5.5	8.0
27	16	8.2	200	165	91	136	210	221	131	95	4.8	5.7
28	31	6.6	150	139	85	111	165	154	90	79	4.8	4.5
29	15	6.0	110	118	---	94	126	105	206	65	4.8	4.7
30	9.6	20	80	101	---	81	944	81	3870	65	4.3	4.6
31	6.7	---	62	87	---	73	---	143	---	89	4.0	---
TOTAL	116.71	306.3	2595	9992	11332	5699	8857	9528	12119	14246	572.5	125.4
MEAN	3.76	10.2	83.7	322	405	184	295	307	404	460	18.5	4.18
MAX	31	27	330	2500	3170	563	1170	1480	3870	4460	64	13
MIN	.62	4.2	15	47	61	50	45	57	45	27	4.0	1.8
CFSM	.03	.09	.75	2.90	3.65	1.66	2.66	2.77	3.64	4.14	.17	.04
IN.	.04	.10	.87	3.35	3.80	1.91	2.97	3.19	4.06	4.77	.19	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1998, BY WATER YEAR (WY)

	MEAN	33.5	89.4	256	293	352	399	233	192	112	64.0	47.3	43.7
MAX	312	347	1028	798	1169	1187	746	881	630	460	375	702	
(WY)	1976	1980	1979	1951	1989	1997	1972	1983	1997	1998	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 1997 CALENDAR YEAR FOR 1998 WATER YEAR WATER YEARS 1950 - 1998

	ANNUAL TOTAL	95061.71	75488.91	
ANNUAL MEAN	260	207	175	
HIGHEST ANNUAL MEAN			319	1979
LOWEST ANNUAL MEAN			28.0	1954
HIGHEST DAILY MEAN	8400	Mar 2	8400	Mar 2 1997
LOWEST DAILY MEAN	.62	Oct 19	.00	Sep 11 1951
ANNUAL SEVEN-DAY MINIMUM	.67	Oct 17	.00	Sep 11 1951
INSTANTANEOUS PEAK FLOW			7480	Jul 20
INSTANTANEOUS PEAK STAGE			18.85	Jul 20
ANNUAL RUNOFF (CFSM)	2.35		1.86	
ANNUAL RUNOFF (INCHES)	31.86		25.30	
10 PERCENT EXCEEDS	579		502	
50 PERCENT EXCEEDS	40		73	
90 PERCENT EXCEEDS	3.6		3.2	

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.--No estimated daily discharges. Records good.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	24	232	78	103	123	142	1710	745	1600	99	14
2	7.5	29	142	67	95	106	139	874	283	567	68	15
3	7.5	28	77	68	87	97	103	559	177	342	53	17
4	7.4	28	65	67	104	93	108	397	143	239	44	15
5	7.3	34	52	72	116	98	103	300	130	190	38	13
6	7.0	33	41	558	138	94	98	234	122	142	33	12
7	5.5	28	32	1620	132	80	88	428	100	121	30	12
8	4.9	29	27	2850	142	97	85	1010	79	124	40	11
9	5.6	29	24	1090	164	659	189	652	222	113	93	9.7
10	6.0	26	165	688	242	613	267	458	413	86	62	10
11	6.0	24	255	476	919	401	249	343	480	69	82	11
12	5.5	24	156	379	3530	304	190	259	348	55	56	11
13	5.1	29	106	401	1970	247	160	208	833	45	35	9.7
14	8.8	80	82	352	1110	217	165	324	628	76	29	9.3
15	8.9	59	66	302	785	181	163	278	393	145	26	10
16	7.8	68	54	258	613	156	1010	185	271	116	23	11
17	7.5	50	44	227	526	142	1720	143	191	118	23	12
18	7.5	36	37	209	581	133	632	116	156	109	23	11
19	6.8	29	32	188	516	126	728	92	145	80	25	12
20	5.8	24	29	169	414	330	724	93	145	5290	23	12
21	5.8	25	26	148	341	639	498	90	629	4790	20	18
22	6.6	72	44	139	276	556	615	85	928	853	17	20
23	7.3	79	89	204	243	432	718	359	1730	521	16	14
24	10	86	122	328	215	331	487	739	832	349	16	13
25	29	65	375	278	183	265	352	676	452	240	16	15
26	18	52	339	234	157	229	270	398	286	198	16	15
27	28	41	233	209	147	194	250	286	207	163	15	13
28	67	31	177	184	138	164	215	220	152	137	13	13
29	53	30	138	156	---	143	176	161	251	116	12	12
30	38	61	119	135	---	125	1060	127	3590	185	12	13
31	28	---	97	117	---	113	---	282	---	169	13	---
TOTAL	427.0	1253	3477	12251	13987	7488	11704	12086	15061	17348	1071	383.7
MEAN	13.8	41.8	112	395	500	242	390	390	502	560	34.5	12.8
MAX	67	86	375	2850	3530	659	1720	1710	3590	5290	99	20
MIN	4.9	24	24	67	87	80	85	85	79	45	12	9.3
CFSM	.09	.28	.76	2.69	3.40	1.64	2.65	2.65	3.42	3.81	.24	.09
IN.	.11	.32	.88	3.10	3.54	1.89	2.96	3.06	3.81	4.39	.27	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1998, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1993	38.8	71.2	1994	12.8	1995
1994	168	398	1995	34.9	1996
1995	264	564	1996	112	1997
1996	471	631	1997	333	1998
1997	417	552	1998	211	
1998	648	1574	1999	242	
1999	260	408	2000	104	
2000	407	786	2001	65.5	
2001	327	768	2002	19.6	
2002	121	560	2003	15.4	
2003	58.1	156	2004	19.4	
2004	34.0	136	2005	8.52	

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1993 - 1998
ANNUAL TOTAL	115100.5	96536.7	
ANNUAL MEAN	315	264	280
HIGHEST ANNUAL MEAN			371
LOWEST ANNUAL MEAN			209
HIGHEST DAILY MEAN	11000	5290	11000
LOWEST DAILY MEAN	4.9	4.9	4.5
ANNUAL SEVEN-DAY MINIMUM	5.5	5.5	5.0
INSTANTANEOUS PEAK FLOW		9270	19300
INSTANTANEOUS PEAK STAGE		12.63	19.01
ANNUAL RUNOFF (CFSM)	2.15	1.80	1.90
ANNUAL RUNOFF (INCHES)	29.13	24.43	25.86
10 PERCENT EXCEEDS	698	620	632
50 PERCENT EXCEEDS	63	117	103
90 PERCENT EXCEEDS	9.9	12	11

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: Nov. 30, Dec. 1, 30, 31, Feb. 4-8, and Aug. 8, 9. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.33	5.0	43	20	21	30	35	84	47	69	29	.99
2	.05	9.2	27	19	20	27	24	70	29	60	25	.54
3	.10	12	21	18	18	24	20	59	22	54	19	.09
4	.00	9.0	20	16	18	22	20	54	20	48	15	.00
5	.00	8.2	16	18	17	22	18	47	21	41	12	.00
6	.00	7.3	13	59	16	21	16	41	19	34	9.3	.00
7	.00	6.1	11	91	15	19	14	50	15	35	8.4	.00
8	.00	6.1	9.0	101	20	24	18	59	12	34	33	.00
9	.00	6.5	8.5	80	29	57	32	55	29	30	40	.00
10	.00	6.3	40	68	38	55	35	52	33	27	24	.00
11	.00	5.7	38	60	76	52	28	45	37	26	19	.00
12	.00	3.8	30	56	115	49	23	40	45	24	14	.00
13	.00	4.1	26	54	99	45	20	36	64	20	11	.03
14	.12	15	21	51	83	39	24	34	58	32	9.7	.00
15	1.2	9.5	18	50	71	35	21	31	50	26	8.6	.00
16	.77	7.1	16	48	66	31	64	30	40	21	8.0	.00
17	.28	5.6	14	45	62	27	74	27	34	19	6.8	.00
18	.12	3.9	12	41	61	26	64	25	28	15	7.0	.00
19	.07	2.9	11	38	57	25	69	21	32	13	6.1	.00
20	.00	2.5	11	34	55	46	64	20	24	166	5.4	.00
21	.00	6.4	9.5	31	53	55	60	17	51	105	5.0	1.9
22	.00	20	21	29	50	56	59	16	90	77	4.9	2.0
23	.00	12	17	39	46	54	52	46	97	66	3.6	1.5
24	2.7	9.1	26	38	43	49	46	67	71	60	2.1	.67
25	5.8	6.9	54	36	41	45	42	60	55	50	2.1	.21
26	12	5.9	50	34	39	40	38	45	43	43	2.2	.00
27	24	5.5	41	32	37	35	38	37	37	38	1.4	.00
28	10	4.6	33	30	34	31	33	29	31	35	1.4	.00
29	6.4	3.8	29	28	---	27	30	24	55	34	2.1	.00
30	4.5	15	24	26	---	23	75	19	84	34	2.6	.00
31	5.0	---	22	23	---	22	---	28	---	32	1.1	---
TOTAL	73.44	225.0	732.0	1313	1300	1113	1156	1268	1273	1368	338.8	7.93
MEAN	2.37	7.50	23.6	42.4	46.4	35.9	38.5	40.9	42.4	44.1	10.9	.26
MAX	24	20	54	101	115	57	75	84	97	166	40	2.0
MIN	.00	2.5	8.5	16	15	19	14	16	12	13	1.1	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1998, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1993	1994	1995	1996	1997	1998
MEAN	6.43	19.0	31.5	41.3	39.7	50.7	34.1	36.4	34.4	13.8	9.67	4.35
MAX	9.63	35.9	48.3	49.0	52.5	77.5	47.5	55.9	65.1	44.1	13.0	12.7
(WY)	1997	1994	1997	1996	1994	1997	1994	1996	1997	1998	1993	1996
MIN	2.37	6.15	22.0	33.5	29.4	35.9	17.5	15.0	3.04	1.21	6.67	.26
(WY)	1998	1995	1996	1997	1996	1998	1995	1993	1994	1995	1997	1998

SUMMARY STATISTICS

FOR 1997 CALENDAR YEAR

FOR 1998 WATER YEAR

WATER YEARS 1993 - 1998

ANNUAL TOTAL	9590.29	10168.17	27.3
ANNUAL MEAN	26.3	27.9	30.5
HIGHEST ANNUAL MEAN			21.2
LOWEST ANNUAL MEAN			1997
HIGHEST DAILY MEAN	313	Mar 1	313
LOWEST DAILY MEAN	.00	Oct 4	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 4	.00
INSTANTANEOUS PEAK FLOW			2240
INSTANTANEOUS PEAK STAGE		4.84	7.30
10 PERCENT EXCEEDS	60	59	58
50 PERCENT EXCEEDS	16	24	22
90 PERCENT EXCEEDS	1.4	.04	1.8

KENTUCKY RIVER BASIN

03289000 SOUTH ELKHORN CREEK AT FORT SPRING, KY

LOCATION.--Lat 38°02'35", long 84°37'35", Fayette County, Hydrologic Unit 05100205, on downstream side of bridge on Fort Spring Road at U.S. Highway 60 at Fort Spring, 1.7 mi upstream from Shannon Run, 6.5 mi west of Lexington, and at mile 42.6.

DRAINAGE AREA.--24.0 mi², of which about 3.0 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--March 1950 to September 1992, October 1997 to September 1998.

REVISED RECORDS.--WSP 1275: 1951-52. WSP 1505: Drainage area. WSP 1625: 1951-52 (P).

GAGE.--Water-stage recorder. Datum of gage is 834.25 ft above sea level. Prior to Aug. 12, 1952, and Feb. 18 to Nov. 16, 1965, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Nov. 17, 18, 24, 25, 27, 30, Dec. 1, 5-9, 13-20, Dec. 26-Jan. 1, Jan. 10, 11, 13, 14, 17-21, June 29, 30, and Aug. 9. Records good except for periods of estimated record, which are poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	7.2	64	21	14	18	45	230	114	103	18	3.5
2	3.0	16	35	19	13	16	24	110	43	61	14	3.3
3	2.8	13	25	19	11	16	19	72	29	43	12	3.3
4	2.5	9.2	26	18	15	15	18	51	33	35	11	3.2
5	2.3	6.6	19	30	18	17	15	40	31	28	9.6	3.0
6	1.9	5.5	16	189	21	14	14	35	24	24	8.8	3.1
7	1.7	6.2	14	369	24	14	13	225	18	29	8.1	2.7
8	1.6	7.9	13	289	27	24	31	168	15	38	7.7	2.5
9	1.5	7.3	12	146	33	143	36	91	35	24	9.7	3.6
10	1.4	5.7	96	97	50	69	44	64	87	20	9.4	4.5
11	1.6	4.6	57	64	296	50	32	48	66	17	7.7	4.7
12	1.6	3.7	39	68	411	39	25	37	113	17	6.8	4.9
13	1.2	8.1	31	58	228	33	21	30	137	29	6.3	5.2
14	8.6	31	25	49	137	29	27	26	77	152	11	5.1
15	4.2	16	22	46	94	25	21	22	91	54	8.2	5.4
16	2.2	11	18	37	76	22	347	18	54	45	6.2	6.0
17	1.8	8.5	17	34	65	20	168	16	38	37	5.3	5.8
18	1.5	6.6	15	30	69	20	89	14	30	28	4.7	6.5
19	1.3	5.7	14	27	55	19	128	12	41	24	4.1	6.7
20	1.2	4.7	13	25	48	112	88	24	26	712	3.3	6.6
21	.98	15	10	22	42	88	64	22	162	294	3.4	30
22	1.1	32	31	21	36	68	59	20	149	139	3.3	9.9
23	1.1	18	23	43	33	54	44	171	255	86	3.5	5.6
24	8.4	13	42	39	29	44	35	89	112	51	3.1	4.0
25	12	9.3	87	34	25	40	30	53	67	37	3.1	3.4
26	39	7.6	53	30	23	34	27	38	46	28	3.0	3.0
27	28	6.6	36	27	24	29	32	31	34	23	3.2	2.6
28	13	5.3	32	24	21	25	23	24	28	19	3.3	2.4
29	7.8	4.8	28	21	---	22	23	20	60	17	3.7	3.6
30	5.4	4.6	25	18	---	20	311	17	450	26	4.0	2.7
31	4.1	---	22	16	---	18	---	130	---	25	3.8	---
TOTAL	168.08	300.7	960	1930	1938	1157	1853	1948	2465	2265	209.3	156.8
MEAN	5.42	10.0	31.0	62.3	69.2	37.3	61.8	62.8	82.2	73.1	6.75	5.23
MAX	39	32	96	369	411	143	347	230	450	712	18	30
MIN	.98	3.7	10	16	11	14	13	12	15	17	3.0	2.4
CFSM	.26	.47	1.46	2.94	3.26	1.76	2.91	2.96	3.88	3.45	.32	.25
IN.	.29	.53	1.68	3.39	3.40	2.03	3.25	3.42	4.33	3.97	.37	.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1998, BY WATER YEAR (WY)

MEAN	8.47	21.2	51.3	50.8	65.2	69.3	44.6	33.3	20.7	16.2	11.7	9.38
MAX	57.0	64.0	198	159	227	172	145	156	83.2	97.0	68.0	81.4
(WY)	1976	1980	1979	1951	1989	1964	1972	1983	1960	1958	1974	1979
MIN	.000	.087	.86	4.43	6.48	11.0	10.3	3.92	1.14	.66	.006	.020
(WY)	1954	1954	1954	1981	1954	1954	1971	1952	1954	1951	1965	1953

SUMMARY STATISTICS

FOR 1998 WATER YEAR

WATER YEARS 1950 - 1998

ANNUAL TOTAL	15350.88		
ANNUAL MEAN	42.1	33.3	
HIGHEST ANNUAL MEAN		62.1	1989
LOWEST ANNUAL MEAN		6.75	1954
HIGHEST DAILY MEAN	712	1310	Feb 15 1989
LOWEST DAILY MEAN	.98	.00	Aug 6 1951
ANNUAL SEVEN-DAY MINIMUM	1.3	.00	Aug 19 1951
INSTANTANEOUS PEAK FLOW	2040	2280	Feb 15 1989
INSTANTANEOUS PEAK STAGE	9.11	12.13	Sep 21 1979
INSTANTANEOUS LOW FLOW		.00	Aug 6 1951
ANNUAL RUNOFF (CFSM)	1.98	1.57	
ANNUAL RUNOFF (INCHES)	26.94	21.35	
10 PERCENT EXCEEDS	92	81	
50 PERCENT EXCEEDS	22	12	
90 PERCENT EXCEEDS	3.3	1.4	

KENTUCKY RIVER BASIN

03289200 TOWN BRANCH AT YARNALLTON ROAD AT YARNALLTON, KY

LOCATION.--Lat 38°06'13", long 84°35'17", Fayette County, Hydrologic Unit 05100205, on left bank, downstream side of bridge on Yarnallton Road (1977), 0.2 mi southwest of Yarnallton, 0.5 mi southwest of Leestown Road (Hwy 421), 1.1 northwest of Old Frankfort Pike (Hwy 1681), and at mile 4.3.

DRAINAGE AREA.--30.0 mi².

PERIOD OF RECORD.--October 1997 to September 1998.

GAGE.--Water-stage recorder. Elevation of gage is 830 ft above sea level (from topographic map).

REMARKS.--Estimated daily discharges: Nov. 30, Dec. 1, and Aug. 9. Records fair except for periods of estimated record, which are poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	39	110	38	45	55	127	346	240	392	59	55
2	28	47	74	39	46	54	70	231	165	250	51	56
3	28	48	58	36	43	52	64	179	146	181	51	54
4	26	37	66	33	50	56	64	150	168	145	50	54
5	24	33	48	76	55	61	55	131	173	119	47	51
6	27	28	38	251	67	51	53	128	148	104	47	49
7	29	29	33	518	76	48	53	309	133	101	46	47
8	27	37	32	419	81	78	92	242	133	126	44	50
9	27	27	34	260	100	237	108	185	225	97	50	48
10	30	27	165	177	129	135	117	158	187	89	56	47
11	25	26	91	137	432	110	81	141	167	80	52	47
12	23	24	71	147	566	96	71	129	289	74	49	45
13	27	55	56	126	361	86	69	123	338	75	47	43
14	60	68	45	106	249	76	95	129	230	197	63	45
15	34	41	42	99	185	66	78	118	218	119	51	45
16	31	33	37	92	163	63	381	118	179	112	47	45
17	29	30	34	88	151	60	216	114	166	95	51	42
18	26	28	31	76	160	61	160	116	160	85	53	43
19	24	25	29	72	126	56	224	118	240	82	54	41
20	26	22	25	67	112	186	168	166	162	1960	53	40
21	24	61	22	61	97	141	142	158	379	472	52	143
22	30	71	87	65	87	121	156	153	337	285	51	64
23	25	43	44	108	83	105	123	372	461	196	51	52
24	68	37	93	83	76	93	109	229	288	136	56	46
25	50	31	145	75	68	92	99	172	228	103	57	45
26	143	28	92	73	65	81	93	153	197	84	58	45
27	73	21	74	68	70	72	108	147	179	76	56	43
28	47	19	61	63	62	65	91	138	166	70	56	46
29	34	17	56	59	---	59	108	135	1460	62	55	44
30	28	45	53	55	---	59	444	132	964	113	54	47
31	25	---	45	50	---	56	---	284	---	82	56	---
TOTAL	1130	1077	1891	3617	3805	2631	3819	5404	8526	6162	1623	1522
MEAN	36.5	35.9	61.0	117	136	84.9	127	174	284	199	52.4	50.7
MAX	143	71	165	518	566	237	444	372	1460	1960	63	143
MIN	23	17	22	33	43	48	53	114	133	62	44	40
CFSM	.09	.09	.15	.29	.34	.21	.32	.43	.71	.49	.13	.13
IN.	.10	.10	.17	.33	.35	.24	.35	.50	.79	.57	.15	.14

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

	MEAN	36.5	35.9	61.0	117	136	84.9	127	174	284	199	52.4	50.7
MAX	36.5	35.9	61.0	117	136	84.9	127	174	284	199	52.4	50.7	50.7
(WY)	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998
MIN	36.5	35.9	61.0	117	136	84.9	127	174	284	199	52.4	50.7	50.7
(WY)	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998

SUMMARY STATISTICS

FOR 1998 WATER YEAR

ANNUAL TOTAL	41207
ANNUAL MEAN	113
HIGHEST DAILY MEAN	1960
LOWEST DAILY MEAN	17
ANNUAL SEVEN-DAY MINIMUM	26
INSTANTANEOUS PEAK FLOW	6750
INSTANTANEOUS PEAK STAGE	9.12
ANNUAL RUNOFF (CFSM)	.28
ANNUAL RUNOFF (INCHES)	3.80
10 PERCENT EXCEEDS	224
50 PERCENT EXCEEDS	69
90 PERCENT EXCEEDS	30

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 62/42, 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. 1-10. Records fair except for period of estimated record, which is 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	35	403	100	74	117	204	1060	683	842	127	19
2	21	73	262	91	69	108	141	590	266	467	102	13
3	20	100	166	88	63	103	119	413	181	321	89	19
4	18	84	132	81	74	98	113	311	158	240	77	20
5	17	66	135	80	86	111	102	249	164	193	69	11
6	21	54	108	544	86	96	92	205	144	158	62	13
7	27	43	92	964	108	87	87	373	110	135	55	11
8	24	44	77	1740	123	117	118	636	95	173	43	19
9	22	56	72	783	142	459	180	400	165	129	86	17
10	20	51	73	505	201	371	187	310	210	105	78	16
11	18	46	348	373	629	281	158	254	249	88	60	11
12	16	42	222	332	2130	235	131	211	332	73	53	10
13	24	41	154	308	1220	202	114	177	484	64	44	12
14	57	104	128	257	727	178	140	161	377	271	40	19
15	58	121	110	231	515	154	119	136	323	256	53	14
16	47	84	97	209	418	139	666	119	246	174	41	13
17	29	70	85	182	357	129	656	104	188	157	39	18
18	17	60	76	163	364	123	399	93	153	122	40	16
19	19	53	67	147	302	121	473	82	190	103	31	9.9
20	36	46	57	134	264	303	421	116	147	2790	34	12
21	28	38	52	119	230	393	337	136	355	3940	31	82
22	25	114	129	110	202	343	318	92	421	774	11	94
23	22	138	113	185	187	292	256	370	881	522	18	36
24	14	97	131	188	169	250	215	380	555	356	35	27
25	111	80	391	172	151	221	181	254	360	268	22	23
26	71	58	287	157	138	200	162	193	261	214	19	17
27	233	55	217	144	139	174	174	160	200	180	17	15
28	110	42	176	127	130	154	144	134	159	157	18	17
29	85	32	152	113	---	138	129	114	300	134	14	15
30	43	36	141	101	---	127	666	97	2730	135	18	15
31	39	---	119	86	---	119	---	91	---	197	22	---
TOTAL	1314	1963	4772	8814	9298	5943	7202	8021	11087	13738	1448	633.9
MEAN	42.4	65.4	154	284	332	192	240	259	370	443	46.7	21.1
MAX	233	138	403	1740	2130	459	666	1060	2730	3940	127	94
MIN	14	32	52	80	63	87	87	82	95	64	11	9.9
CFSM	.40	.62	1.47	2.71	3.16	1.83	2.29	2.46	3.52	4.22	.44	.20
IN.	.47	.70	1.69	3.12	3.29	2.11	2.55	2.84	3.93	4.87	.51	.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1998, BY WATER YEAR (WY)

MEAN	65.8	137	241	248	296	317	188	227	190	109	69.9	56.1
MAX	151	307	673	405	1030	1165	366	718	606	443	255	108
(WY)	1991	1994	1991	1996	1989	1997	1984	1983	1997	1998	1992	1992
MIN	31.2	51.9	86.5	50.4	114	60.1	61.0	58.9	39.5	35.8	32.5	21.1
(WY)	1995	1995	1990	1986	1993	1983	1986	1988	1988	1983	1983	1998

SUMMARY STATISTICS

FOR 1997 CALENDAR YEAR

FOR 1998 WATER YEAR

WATER YEARS 1982 - 1998

ANNUAL TOTAL	90570	74233.9	
ANNUAL MEAN	248	203	178
HIGHEST ANNUAL MEAN			276
LOWEST ANNUAL MEAN			103
HIGHEST DAILY MEAN	10700	3940	10700
LOWEST DAILY MEAN	14	9.9	3.1
ANNUAL SEVEN-DAY MINIMUM	20	14	14
INSTANTANEOUS PEAK FLOW		7510	12300
INSTANTANEOUS PEAK STAGE		21.29	26.37
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (CFSM)	2.36	1.94	1.70
ANNUAL RUNOFF (INCHES)	32.09	26.30	23.05
10 PERCENT EXCEEDS	483	395	365
50 PERCENT EXCEEDS	91	121	93
90 PERCENT EXCEEDS	31	19	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.--No estimated daily discharges. Water-discharge records 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	88	633	238	334	407	396	5350	2840	5490	466	54
2	37	81	655	203	303	361	499	3390	1500	2060	331	56
3	37	96	390	185	273	325	378	2080	824	1200	271	51
4	36	119	280	182	291	305	342	1470	578	819	235	46
5	29	110	252	180	338	293	330	1090	508	619	205	48
6	28	98	206	668	365	298	290	847	464	486	186	48
7	32	89	173	3730	374	272	259	1020	367	391	169	41
8	34	87	151	7720	389	266	243	2690	291	382	154	40
9	30	86	138	4600	437	1230	439	2100	330	389	146	36
10	30	89	221	2640	590	2010	662	1470	827	297	327	42
11	29	82	820	1780	1870	1330	654	1130	1160	238	285	41
12	27	78	663	1350	8440	1010	499	864	974	200	261	40
13	27	77	446	1260	7120	818	388	679	1800	178	191	37
14	30	101	337	1160	4170	698	401	560	2130	472	146	34
15	30	175	271	1010	2780	591	429	666	1380	794	126	36
16	64	163	228	886	2050	495	2220	498	1010	538	123	43
17	51	128	200	774	1700	436	7500	385	706	410	114	38
18	51	116	178	685	1790	404	2750	310	518	338	108	38
19	46	103	159	597	1640	379	2290	265	452	285	102	47
20	36	94	144	540	1330	758	2480	244	470	6930	88	45
21	37	92	134	486	1120	1880	1810	262	1560	16600	86	115
22	43	102	145	444	934	1790	1420	264	2970	5600	82	196
23	36	180	231	474	804	1470	1660	541	5870	2360	72	142
24	41	172	272	703	707	1180	1280	2090	3840	1560	61	85
25	48	148	665	749	612	950	960	2040	1990	1080	67	62
26	90	132	1150	662	541	817	753	1290	1270	781	114	50
27	142	111	793	594	497	679	669	910	881	608	77	49
28	225	101	552	532	468	574	621	691	642	501	66	44
29	141	90	408	474	---	496	501	512	499	418	61	39
30	125	117	341	423	---	432	2370	392	3970	376	60	40
31	93	---	291	377	---	372	---	368	---	555	56	---
TOTAL	1748	3305	11527	36306	42267	23326	35493	36468	42621	52955	4836	1683
MEAN	56.4	110	372	1171	1510	752	1183	1176	1421	1708	156	56.1
MAX	225	180	1150	7720	8440	2010	7500	5350	5870	16600	466	196
MIN	27	77	134	180	273	266	243	244	291	178	56	34
CFSM	.14	.27	.92	2.91	3.75	1.87	2.94	2.92	3.53	4.25	.39	.14
IN.	.16	.31	1.07	3.36	3.91	2.16	3.28	3.37	3.94	4.90	.45	.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1998, BY WATER YEAR (WY)

	MEAN	129	328	874	1140	1299	1422	925	674	437	261	175	154
MAX	1012	1379	3138	4630	4438	4309	3332	3747	2686	1708	963	2101	
(WY)	1976	1943	1979	1950	1989	1964	1948	1983	1997	1998	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 1997 CALENDAR YEAR

FOR 1998 WATER YEAR

WATER YEARS 1916 - 1998

ANNUAL TOTAL	340886	292535	
ANNUAL MEAN	934	801	649
HIGHEST ANNUAL MEAN			1103
LOWEST ANNUAL MEAN			126
HIGHEST DAILY MEAN	25000	Mar 3	25000
LOWEST DAILY MEAN	26	Sep 8	27
ANNUAL SEVEN-DAY MINIMUM	29	Oct 9	29
INSTANTANEOUS PEAK FLOW			18500
INSTANTANEOUS PEAK STAGE			13.62
ANNUAL RUNOFF (CFSM)	2.32		1.99
ANNUAL RUNOFF (INCHES)	31.51		27.04
10 PERCENT EXCEEDS	2250		1630
50 PERCENT EXCEEDS	221		209
90 PERCENT EXCEEDS	45		34

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: Nov. 30, Jan. 13, Apr. 21-23, July 26-29, and Aug. 9. Records fair except for periods of estimated record 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1470	822	3270	2810	4300	6370	5500	35500	12100	19000	2350	551
2	1150	755	3390	2170	4150	5990	6380	32400	7260	16000	2270	337
3	622	777	2870	1900	3860	6460	6350	33600	5090	14800	2180	347
4	410	853	2860	1840	4290	5960	6540	31500	4160	7940	2500	394
5	353	776	2770	1940	4570	5160	8210	24700	4830	5480	2330	804
6	331	757	2470	6650	5590	4630	15000	25200	7600	4620	1810	1130
7	315	694	2460	15700	8650	4490	16400	25200	10200	4420	1460	1330
8	311	819	2190	41000	10500	4430	13400	29400	9840	4880	1580	813
9	293	757	1800	47500	10800	12300	14000	28700	10100	5660	1520	359
10	284	818	3150	34100	14800	19300	14500	24900	10500	5480	1460	239
11	275	904	3820	22000	27100	19400	15500	21200	16900	6660	1550	746
12	279	861	3590	15800	53500	16900	15000	19500	22300	6070	1280	1100
13	277	853	3280	13900	55000	13600	13200	18400	26300	4190	1150	705
14	308	1030	3090	12000	42000	10800	12800	15600	29400	4130	1630	416
15	266	981	2860	8230	27000	8080	11000	13700	26200	5620	1640	922
16	205	989	2880	7330	19200	7180	20100	9370	25100	4700	1520	1100
17	259	1100	2340	7050	14900	6160	38600	7040	19300	4680	1340	1450
18	295	1270	1760	6980	13800	5500	40200	5530	14400	5400	1380	1370
19	220	1270	1740	6900	14400	4970	49000	4490	10600	4420	1980	979
20	199	1200	1390	6600	15600	10800	56100	4330	9670	23800	2950	897
21	231	1120	1140	6250	15500	23400	60000	3570	14400	32000	3350	723
22	413	1160	1580	5810	14400	30500	62000	3360	22800	21700	2760	834
23	434	1170	1980	6120	12600	29900	59000	8900	23400	11300	2200	712
24	335	1520	2530	7430	10800	24000	53400	23500	23900	9880	1680	1270
25	473	2050	5000	8980	9710	18400	39000	27200	18000	6620	1130	1190
26	577	2140	5110	10100	9350	14400	23000	21200	13300	5730	1340	1500
27	715	1920	4280	10000	8960	12000	18800	15100	9560	4840	1020	1270
28	779	1670	3180	8580	7490	10200	16400	9860	7450	3950	878	990
29	809	1420	2760	6260	---	8720	14400	7440	6560	3060	586	453
30	874	2340	3260	5020	---	6670	22700	6290	9250	2340	697	329
31	839	---	3240	4490	---	5520	---	8750	---	2830	631	---
TOTAL	14601	34796	88040	341440	442820	362190	746480	545430	430470	262200	52152	25260
MEAN	471	1160	2840	11010	15820	11680	24880	17590	14350	8458	1682	842
MAX	1470	2340	5110	47500	55000	30500	62000	35500	29400	32000	3350	1500
MIN	199	694	1140	1840	3860	4430	5500	3360	4160	2340	586	239

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1998, BY WATER YEAR (WY)

MEAN	2364	5077	11140	13460	15220	19050	14280	10510	5808	2798	2389	2196
MAX	14120	13960	39510	37850	40180	40410	41540	34340	23380	8458	8589	14740
(WY)	1990	1987	1979	1974	1989	1975	1972	1983	1997	1998	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 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1961 - 1998	
ANNUAL TOTAL	3395241		3345879			
ANNUAL MEAN	9302		9167		8662	
HIGHEST ANNUAL MEAN					14030	
LOWEST ANNUAL MEAN					3891	
HIGHEST DAILY MEAN	100000	Mar 4	62000	Apr 22	121000	Dec 11 1978
LOWEST DAILY MEAN	199	Oct 20	199	Oct 20	131	Oct 4 1981
ANNUAL SEVEN-DAY MINIMUM	239	Oct 15	239	Oct 15	166	Sep 8 1995
INSTANTANEOUS PEAK FLOW			69400	Apr 23	123000	Jan 26 1937
INSTANTANEOUS PEAK STAGE			30.80	Apr 23	56.85	Jan 24 1937
10 PERCENT EXCEEDS	25600		23900		22000	
50 PERCENT EXCEEDS	3180		4840		3900	
90 PERCENT EXCEEDS	503		696		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 Termmile 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.--No estimated daily discharges. Records good.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	6.1	712	72	96	152	263	6410	1660	568	52	12
2	.39	6.7	415	62	88	137	287	1810	1010	301	42	8.6
3	.37	7.5	178	56	82	126	226	1020	276	157	47	8.3
4	.34	7.2	97	53	80	118	197	635	163	112	54	7.8
5	.40	7.3	83	52	101	120	252	476	120	92	39	6.6
6	.50	6.8	73	2800	133	119	234	365	108	66	30	5.7
7	.56	5.8	49	6460	147	110	187	1400	99	56	24	6.8
8	.55	5.5	39	10800	165	149	205	3940	88	464	20	6.2
9	.52	5.4	34	2420	237	4160	1860	1460	1730	223	79	5.1
10	.47	5.3	510	1240	777	1470	2160	833	2770	98	621	4.4
11	.44	5.4	1510	610	4260	692	1190	619	5550	70	325	4.4
12	.35	7.6	516	375	4570	397	533	405	2760	51	134	4.2
13	.32	8.5	209	294	2720	303	332	301	4320	36	80	3.8
14	.44	11	127	250	1440	261	273	1080	1980	127	54	3.8
15	.37	12	91	222	949	223	1690	261	1380	1830	43	3.5
16	.30	20	69	206	680	192	10700	191	984	846	41	3.2
17	.26	14	56	181	743	173	9580	161	454	356	34	3.0
18	.24	12	47	161	1290	181	2400	126	276	185	29	2.9
19	.21	10	42	141	1520	210	2550	104	1640	115	27	3.0
20	.20	9.2	37	127	742	3990	2050	99	676	7840	23	2.8
21	.17	17	34	119	545	3850	911	98	423	8030	20	2.7
22	.15	24	130	116	424	1850	1040	90	1770	1010	17	3.3
23	.13	24	586	156	333	1090	1510	2230	11100	397	15	3.0
24	.17	32	547	246	279	619	986	2620	4560	280	13	3.0
25	.30	28	2510	255	235	418	585	1280	766	176	12	2.9
26	.39	23	1070	225	202	332	420	655	356	125	13	2.7
27	.56	19	388	177	185	272	498	334	226	97	12	2.5
28	.75	19	208	151	169	234	523	477	160	75	11	2.2
29	1.7	23	139	134	---	202	807	319	123	61	12	2.2
30	4.1	49	108	120	---	178	10700	186	161	52	12	1.6
31	5.7	---	88	107	---	161	---	136	---	58	14	---
TOTAL	21.77	431.3	10702	28388	23192	22489	55149	30121	47689	23954	1949	132.2
MEAN	.70	14.4	345	916	828	725	1838	972	1590	773	62.9	4.41
MAX	5.7	49	2510	10800	4570	4160	10700	6410	11100	8030	621	12
MIN	.13	5.3	34	52	80	110	187	90	88	36	11	1.6
CFSM	.00	.03	.79	2.10	1.90	1.66	4.21	2.22	3.64	1.77	.14	.01
IN.	.00	.04	.91	2.42	1.97	1.91	4.69	2.56	4.06	2.04	.17	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1998, BY WATER YEAR (WY)

	MEAN	105	342	649	953	1082	1314	946	682	474	246	124	104
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 1997 CALENDAR YEAR

FOR 1998 WATER YEAR

WATER YEARS 1916 - 1998

ANNUAL TOTAL	253705.02	244218.27	
ANNUAL MEAN	695	669	581
HIGHEST ANNUAL MEAN			1059
LOWEST ANNUAL MEAN			117
HIGHEST DAILY MEAN	34000	Mar 2	11100 Jun 23
LOWEST DAILY MEAN	.03 Aug 7	.13 Oct 23	39300
ANNUAL SEVEN-DAY MINIMUM	.05 Aug 6	.18 Oct 18	.00 Jul 15 1930
INSTANTANEOUS PEAK FLOW		19100 Apr 16	.00 Jul 15 1930
INSTANTANEOUS PEAK STAGE		16.67 Apr 16	58300 Mar 2 1997
INSTANTANEOUS LOW FLOW			29.08 Mar 2 1997
ANNUAL RUNOFF (CFSM)	1.59	1.53	1.1 Sep 1 1996
ANNUAL RUNOFF (INCHES)	21.60	20.79	18.07
10 PERCENT EXCEEDS	1280	1750	1310
50 PERCENT EXCEEDS	119	133	99
90 PERCENT EXCEEDS	.40	2.9	1.2

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 1997 TO SEPTEMBER 1998

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)
DEC					
09...	0835	556	7.8	3.0	12.8
JAN					
21...	0835	495	8.2	3.4	12.7
FEB					
23...	0855	435	8.5	8.0	12.7
MAR					
17...	0845	500	8.4	7.0	11.1
APR					
21...	0900	439	7.9	12.5	9.5
MAY					
19...	0830	483	7.9	22.0	9.3
JUN					
17...	0830	470	8.0	21.0	8.8
JUL					
20...	0900	536	7.8	26.5	7.1
AUG					
17...	0850	555	7.6	23.5	6.0

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 and crest-stage gage.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.33	7.0	11	2.7	2.9	5.0	9.0	20	4.9	23	7.9	.71
2	.29	3.6	5.1	2.6	3.0	4.7	6.2	13	3.7	15	6.0	.70
3	.25	2.5	5.7	2.5	2.8	4.5	5.9	13	3.1	11	5.0	.62
4	.20	1.7	5.4	2.4	3.0	4.4	6.8	11	3.9	10	4.2	.59
5	.16	1.3	3.9	3.1	3.7	4.3	5.4	8.6	3.7	8.2	3.7	.57
6	.14	1.1	3.2	19	4.3	4.0	5.0	7.4	3.1	6.7	3.9	.58
7	.14	1.2	2.8	56	4.8	3.9	4.8	11	2.7	14	7.8	.61
8	.17	1.3	2.5	52	5.7	24	4.9	8.4	2.6	14	35	.72
9	.23	1.4	2.6	24	6.6	38	6.8	7.1	5.3	7.1	15	1.2
10	.22	1.3	14	16	9.2	15	5.9	6.2	19	5.6	7.0	.54
11	.21	1.2	5.9	12	39	11	4.7	5.5	21	4.8	5.0	.36
12	.18	1.2	4.2	11	34	9.9	4.3	4.7	21	4.2	3.9	.54
13	.48	5.2	3.6	9.8	23	8.9	4.2	4.1	27	4.6	3.2	.42
14	1.6	5.3	3.2	8.0	18	7.6	8.2	3.7	16	4.8	2.8	.37
15	.63	2.9	2.7	7.4	14	6.5	8.8	3.4	13	33	2.4	.44
16	.45	2.2	2.5	6.5	16	5.7	62	3.1	10	16	2.1	.58
17	.36	1.7	2.4	5.7	17	5.4	24	2.9	8.3	10	1.9	.62
18	.30	1.6	2.2	4.9	18	6.5	17	2.7	7.1	7.4	1.8	.67
19	.30	1.6	2.1	4.5	14	5.8	30	2.4	11	5.9	1.7	.70
20	.30	1.5	1.9	4.2	13	51	19	5.5	6.2	29	1.4	.55
21	.28	4.5	1.9	3.8	11	27	16	3.2	36	13	1.2	.72
22	.28	4.5	5.3	4.0	9.6	19	13	8.5	16	9.6	1.1	.70
23	.27	2.8	3.8	4.9	8.9	15	11	75	40	7.6	1.0	.45
24	1.5	2.1	12	4.4	7.7	12	10	18	19	6.2	1.1	.36
25	1.9	1.8	11	4.1	6.6	11	8.8	12	14	5.1	1.0	.39
26	1.8	1.7	7.1	3.8	6.0	10	8.1	9.3	11	4.5	1.7	.37
27	1.5	1.6	5.6	3.8	6.4	8.7	10	9.0	8.9	4.1	1.1	.24
28	1.0	1.5	4.4	3.7	5.5	8.1	6.8	6.8	7.3	3.8	.91	.22
29	.93	1.5	4.0	3.6	---	6.9	12	5.8	30	3.6	1.1	.18
30	.68	23	3.8	3.4	---	6.0	40	5.1	68	32	.90	.19
31	.67	---	3.1	3.1	---	7.4	---	5.9	---	16	.79	---
TOTAL	17.75	91.8	148.9	296.9	313.7	357.2	378.6	302.3	442.8	339.8	133.60	15.91
MEAN	.57	3.06	4.80	9.58	11.2	11.5	12.6	9.75	14.8	11.0	4.31	.53
MAX	1.9	23	14	56	39	51	62	75	68	33	35	1.2
MIN	.14	1.1	1.9	2.4	2.8	3.9	4.2	2.4	2.6	3.6	.79	.18
CFSM	.10	.51	.80	1.60	1.87	1.92	2.10	1.63	2.46	1.83	.72	.09
IN.	.11	.57	.92	1.84	1.94	2.21	2.35	1.87	2.75	2.11	.83	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 1998, BY WATER YEAR (WY)

MEAN	1.68	3.43	13.3	10.9	11.0	44.3	8.66	10.1	20.5	6.42	4.27	.58
MAX	2.79	3.80	21.8	12.2	11.2	77.1	12.6	10.5	26.3	11.0	4.31	.63
(WY)	1997	1997	1997	1997	1998	1997	1998	1997	1997	1998	1998	1997
MIN	.57	3.06	4.80	9.58	10.8	11.5	4.71	9.75	14.8	1.88	4.23	.53
(WY)	1998	1998	1998	1998	1997	1998	1997	1998	1998	1997	1997	1998

SUMMARY STATISTICS

FOR 1997 CALENDAR YEAR

FOR 1998 WATER YEAR

WATER YEARS 1997 - 1998

ANNUAL TOTAL	4792.16	2839.26	
ANNUAL MEAN	13.1	7.78	
HIGHEST ANNUAL MEAN			11.3
LOWEST ANNUAL MEAN			14.8
HIGHEST DAILY MEAN	800	May 23	800
LOWEST DAILY MEAN	.12	Aug 7	.12
ANNUAL SEVEN-DAY MINIMUM	.18	Oct 4	.18
INSTANTANEOUS PEAK FLOW			380
INSTANTANEOUS PEAK STAGE			3.70
ANNUAL RUNOFF (CFSM)	2.19		1.30
ANNUAL RUNOFF (INCHES)	29.71		17.60
10 PERCENT EXCEEDS	21		18
50 PERCENT EXCEEDS	4.2		4.7
90 PERCENT EXCEEDS	.45		.56

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 1997 TO SEPTEMBER 1998

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
DEC						
09...	1300	2.5	581	8.4	6.5	13.9
JAN						
21...	1230	3.9	525	8.4	5.5	13.8
FEB						
23...	1225	8.8	482	8.7	9.0	13.8
MAR						
17...	1225	5.4	536	8.4	11.0	12.8
APR						
21...	1155	16	456	8.0	12.5	11.2
MAY						
19...	1205	2.5	523	8.1	20.0	9.8
JUN						
17...	1145	8.2	462	8.4	20.0	11.0
JUL						
20...	1320	43	229	7.4	21.5	7.6
AUG						
17...	1310	2.0	550	8.1	23.5	10.5

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 1997 TO SEPTEMBER 1998

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
DEC						
09...	1110	3.0	579	8.2	4.0	11.8
JAN						
21...	1055	4.9	547	8.4	4.0	13.4
FEB						
23...	1115	13	516	8.7	8.0	13.9
MAR						
17...	1115	7.0	539	8.9	9.0	16.2
APR						
21...	1050	24	487	8.0	12.0	10.1
MAY						
19...	1045	3.7	543	8.1	18.5	8.6
JUN						
17...	1040	9.5	489	8.3	19.0	8.9
JUL						
20...	1230	166	335	8.0	22.0	8.2
AUG						
17...	1135	2.9	550	8.2	22.0	8.3

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 1997 TO SEPTEMBER 1998

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
DEC						
09...	1000	3.0	593	8.3	4.5	12.8
JAN						
21...	0950	3.6	588	8.3	4.0	12.8
FEB						
23...	0945	8.4	601	8.4	--	11.9
MAR						
17...	0955	4.7	584	8.4	8.0	12.5
APR						
21...	0950	16	533	8.0	11.5	10.2
MAY						
19...	0950	2.9	580	8.1	17.5	9.0
JUN						
17...	0930	8.4	490	8.2	18.0	9.0
JUL						
20...	1000	46	450	8.1	22.0	7.9
AUG						
17...	1025	2.3	601	8.1	21.5	8.2

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	55	46	6.1	5.9	7.3	34	76	27	19	16	3.5
2	1.2	11	14	6.1	6.3	6.7	11	41	12	13	11	3.4
3	1.2	6.6	29	6.2	6.7	6.6	13	37	9.9	10	8.1	3.5
4	1.3	5.2	20	6.8	8.3	7.1	24	25	19	13	6.9	3.7
5	1.6	3.8	9.8	17	16	7.2	11	19	20	8.5	6.2	3.6
6	1.7	4.4	7.5	125	20	5.7	9.3	15	11	7.7	18	3.3
7	2.0	4.6	6.0	263	26	6.1	8.7	33	8.2	146	63	3.9
8	2.1	5.0	5.6	221	26	73	10	20	8.0	77	51	6.4
9	2.3	5.1	6.0	58	29	166	35	15	35	18	38	6.7
10	2.4	6.3	79	30	38	25	14	13	376	12	12	6.5
11	2.7	6.7	15	20	169	16	9.7	11	133	9.6	9.2	6.2
12	2.5	8.0	10	18	109	12	8.8	9.9	90	8.4	7.3	6.1
13	13	52	15	17	49	10	8.0	8.9	143	8.0	6.6	6.3
14	23	23	7.8	11	30	9.1	36	8.4	58	11	5.7	6.3
15	3.8	6.7	6.2	10	21	7.9	31	7.9	37	127	5.4	6.2
16	2.8	5.5	5.9	8.7	42	7.1	337	7.6	25	27	5.2	6.1
17	2.8	4.9	6.6	8.9	33	6.9	100	6.5	19	16	4.6	7.3
18	2.8	6.4	6.7	7.5	29	16	42	6.2	16	11	4.4	8.3
19	2.7	6.0	7.6	6.9	17	7.9	125	5.9	44	9.3	4.7	9.5
20	5.0	5.7	8.2	6.2	16	245	45	26	17	57	4.5	9.8
21	6.6	25	9.4	5.8	13	74	32	7.9	148	13	4.3	22
22	10	14	38	6.9	11	39	31	56	72	9.3	4.5	12
23	12	5.8	11	13	11	27	20	235	113	8.2	4.3	3.5
24	26	4.4	79	7.9	9.0	20	16	43	39	7.1	4.6	3.1
25	10	4.2	42	7.0	8.3	27	14	27	25	6.2	4.9	3.0
26	9.3	5.2	16	5.3	7.8	18	13	18	18	5.4	18	3.4
27	7.3	5.3	12	5.1	12	15	46	31	15	5.1	4.0	3.3
28	7.3	5.7	9.2	4.8	8.2	13	14	15	12	4.8	3.5	5.4
29	7.9	6.6	8.9	4.4	---	12	70	12	46	4.6	14	5.7
30	8.4	156	9.3	4.3	---	11	216	11	83	204	4.2	7.1
31	10	---	7.0	4.3	---	20	---	55	---	53	3.7	---
TOTAL	193.6	464.1	553.7	922.2	777.5	924.6	1384.5	903.2	1679.1	929.2	357.8	185.1
MEAN	6.25	15.5	17.9	29.7	27.8	29.8	46.2	29.1	56.0	30.0	11.5	6.17
MAX	26	156	79	263	169	245	337	235	376	204	63	22
MIN	1.2	3.8	5.6	4.3	5.9	5.7	8.0	5.9	8.0	4.6	3.5	3.0
CFSM	.36	.90	1.04	1.73	1.61	1.73	2.68	1.69	3.25	1.74	.67	.36
IN.	.42	1.00	1.20	1.99	1.68	2.00	2.99	1.95	3.63	2.01	.77	.40

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

	MEAN	7.47	13.9	23.4	31.2	39.4	45.1	32.5	28.8	20.1	15.9	10.3	7.56
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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1940 - 1998
ANNUAL TOTAL	13732.36	9274.6	
ANNUAL MEAN	37.6	25.4	23.1
HIGHEST ANNUAL MEAN			41.6
LOWEST ANNUAL MEAN			9.35
HIGHEST DAILY MEAN	1960	Mar 2	1960
LOWEST DAILY MEAN	.49	Sep 28	.00
ANNUAL SEVEN-DAY MINIMUM	.91	Sep 25	.00
INSTANTANEOUS PEAK FLOW			2100
INSTANTANEOUS PEAK STAGE			14.60
INSTANTANEOUS LOW FLOW			17.81
ANNUAL RUNOFF (CFSM)	2.19	1.48	.00
ANNUAL RUNOFF (INCHES)	29.70	20.06	1.34
10 PERCENT EXCEEDS	60	55	49
50 PERCENT EXCEEDS	10	9.9	7.6
90 PERCENT EXCEEDS	3.1	4.3	.90

BEARGRASS CREEK BASIN

03292500 SOUTH FORK BEARGRASS CREEK AT TREVILIAN WAY AT LOUISVILLE, 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.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1988 to September 1992, July 1995 to October 1995.

pH: May 1988 to September 1992, July 1995 to October 1995.

WATER TEMPERATURE: May 1988 to September 1992, July 1995 to October 1995.

DISSOLVED OXYGEN: May 1988 to September 1992, July 1995 to October 1995.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1920 microsiemens, Sept. 26, 1995; 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 1997 TO SEPTEMBER 1998

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
DEC						
02...	0850	14	1160	7.6	8.0	10.1
JAN						
06...	0820	328	426	7.3	12.5	8.4
FEB						
10...	0845	25	944	7.7	6.5	10.0
MAR						
03...	0840	6.5	591	7.8	6.0	11.5
APR						
07...	0850	8.8	702	7.5	13.5	8.5
MAY						
05...	0825	20	578	7.6	13.5	7.5
JUN						
09...	0830	64	319	7.6	17.0	8.0
JUL						
07...	0825	6.0	506	7.6	25.5	5.0
AUG						
04...	0830	8.4	579	7.6	24.5	5.9

[illegible]

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, on left bank of floodwall, 100 ft. upstream of 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.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1995 to October 1995.

pH: July 1995 to October 1995.

WATER TEMPERATURE: July 1995 to October 1995.

DISSOLVED OXYGEN: July 1995 to October 1995.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1410 microsiemens, Oct. 1, 1995; minimum, 77 microsiemens, Oct. 5, 1995.

pH: Maximum, 8.6 units, Aug. 30, 1995; minimum, 6.8 units, Aug. 1, 1995.

WATER TEMPERATURE: Maximum, 29.8° C, July 31, 1995; minimum, 8.9° C, Oct. 19, 1995.

DISSOLVED OXYGEN: Maximum, 14.9 mg/L, Aug. 28, 1995; minimum, 2.1 mg/L, July 16, 1995.

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
DEC						
02...	1120	17	726	7.7	9.0	10.4
JAN						
06...	1310	186	350	7.7	12.5	9.3
FEB						
10...	1050	25	1020	7.8	7.0	12.0
MAR						
03...	1055	8.9	632	8.0	7.0	12.5
APR						
07...	1055	10	638	7.4	13.5	9.0
MAY						
05...	1050	22	622	7.8	15.5	8.9
JUN						
09...	1020	68	501	7.5	17.5	6.7
JUL						
07...	0945	13	554	7.4	23.5	4.0
AUG						
04...	1025	11	601	7.6	23.5	6.7

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 and crest-stage gage. 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: Oct. 7-11, Oct. 17 to Nov. 20, Nov. 23-29, Dec. 2-9, 11-21, Dec. 26 to Jan 5, Jan. 10-22, Jan. 24 to Feb. 9, and May 8 to June 25. Records fair except for periods of estimated record, which are poor.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	47	55	6.5	6.1	9.2	34	78	30	38	24	3.7
2	.70	15	18	6.2	6.6	8.6	13	48	10	23	16	3.4
3	.60	8.0	31	5.9	7.1	8.2	13	41	7.9	17	12	3.4
4	.55	6.0	23	5.7	10	8.0	19	34	21	17	9.9	3.2
5	.57	4.5	12	15	17	8.3	11	24	20	14	8.7	3.1
6	.44	4.7	8.8	108	21	7.3	10	19	10	10	12	3.1
7	.40	5.0	5.8	228	29	7.2	9.1	45	8.6	65	46	3.3
8	.37	5.4	3.8	238	28	52	9.4	24	7.5	80	89	4.0
9	.34	6.0	17	76	30	211	26	15	6.0	20	70	3.4
10	.32	6.8	75	40	40	42	15	13	350	14	24	3.6
11	.30	7.1	20	24	159	28	11	12	140	10	16	3.3
12	.29	10	11	20	105	21	8.9	10	110	9.7	12	3.5
13	3.7	51	16	18	57	16	8.2	9.0	145	8.6	9.6	3.4
14	18	32	8.2	15	39	13	31	8.1	62	13	8.8	3.2
15	4.2	10	7.0	12	29	11	27	7.2	41	165	7.8	4.1
16	3.2	6.2	6.1	11	41	10	288	6.4	29	51	7.2	4.0
17	3.1	5.1	6.9	9.8	42	9.7	88	5.6	22	28	6.3	4.3
18	3.0	6.5	7.0	8.8	48	19	45	5.0	17	19	6.1	4.8
19	2.9	6.3	8.0	7.5	30	12	108	4.4	46	15	5.7	5.4
20	6.0	6.0	8.3	6.7	25	250	48	25	22	72	5.1	5.3
21	7.0	22	10	6.0	20	87	35	6.8	140	25	5.0	8.8
22	11	17	36	6.7	16	51	27	50	92	16	4.7	5.3
23	13	7.0	12	14	14	37	21	220	130	12	4.7	3.6
24	25	5.0	64	9.0	12	28	16	70	70	11	4.1	3.1
25	14	4.6	51	7.3	11	30	13	30	37	9.7	4.8	3.6
26	10	5.3	20	6.1	10	21	12	15	22	8.4	15	3.8
27	7.9	5.4	13	5.6	14	16	43	29	17	7.8	5.8	3.3
28	7.5	5.9	10	5.2	10	14	13	14	14	7.3	4.7	3.1
29	8.2	7.3	9.1	5.0	---	13	54	9.0	48	6.9	6.5	2.9
30	9.0	121	9.4	4.9	---	11	184	7.2	139	172	4.6	2.7
31	12	---	7.6	4.8	---	16	---	69	---	67	3.5	---
TOTAL	174.38	449.1	590.0	936.7	876.8	1075.5	1240.6	953.7	1814.0	1032.4	459.6	115.7
MEAN	5.63	15.0	19.0	30.2	31.3	34.7	41.4	30.8	60.5	33.3	14.8	3.86
MAX	25	121	75	238	159	250	288	220	350	172	89	8.8
MIN	.29	4.5	3.8	4.8	6.1	7.2	8.2	4.4	6.0	6.9	3.5	2.7
CFSM	.31	.81	1.03	1.64	1.70	1.89	2.25	1.67	3.29	1.81	.81	.21
IN.	.35	.91	1.19	1.89	1.77	2.17	2.51	1.93	3.67	2.09	.93	.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1998, BY WATER YEAR (WY)

	MEAN	8.47	16.5	27.1	33.5	42.5	51.2	38.5	30.9	20.9	16.7	11.3	9.36
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 1997 CALENDAR YEAR

FOR 1998 WATER YEAR

WATER YEARS 1944 - 1998

ANNUAL TOTAL	13029.01	9718.48	
ANNUAL MEAN	35.7	26.6	25.5
HIGHEST ANNUAL MEAN			49.2
LOWEST ANNUAL MEAN			3.76
HIGHEST DAILY MEAN	1750	350	2000
LOWEST DAILY MEAN	.29	.29	.00
ANNUAL SEVEN-DAY MINIMUM	.35	.35	.00
INSTANTANEOUS PEAK FLOW		948	5900
INSTANTANEOUS PEAK STAGE		5.33	8.70
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (CFSM)	1.94	1.45	1.39
ANNUAL RUNOFF (INCHES)	26.34	19.65	18.84
10 PERCENT EXCEEDS	60	64	53
50 PERCENT EXCEEDS	12	11	10
90 PERCENT EXCEEDS	1.8	3.7	1.9