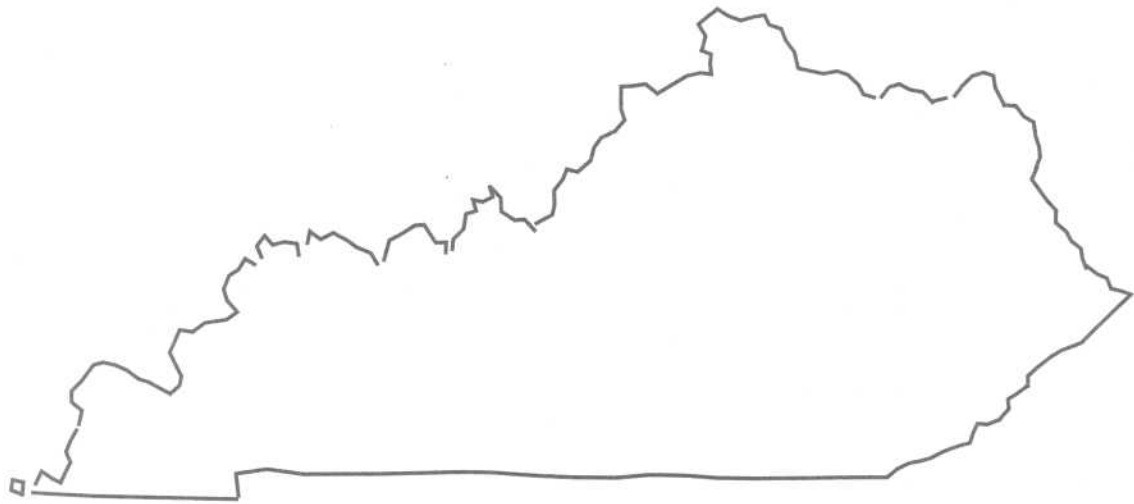




Water Resources Data Kentucky Water Year 1995



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

03281500 SOUTH FORK KENTUCKY RIVER AT BOONEVILLE, KY

LOCATION.--Lat 37°27'45", 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: Feb. 6-14. Records good except for period of estimated record, which is fair. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	33	300	117	980	930	466	716	512	236	46	66
2	22	31	210	117	882	899	435	1890	518	251	48	56
3	19	30	167	113	835	832	399	2310	537	221	53	33
4	17	30	151	112	902	792	375	1670	520	170	72	24
5	16	30	358	98	1020	761	345	1320	402	139	47	18
6	14	33	537	507	860	842	326	1030	330	145	36	15
7	14	33	489	4990	740	1440	309	817	286	142	35	11
8	13	33	363	3090	615	6330	298	682	252	162	42	8.4
9	16	34	279	1380	540	10400	290	689	267	142	195	7.2
10	22	36	464	881	480	4220	284	1190	223	110	224	5.6
11	23	37	1950	672	440	3520	266	2380	474	90	138	4.7
12	19	36	1400	688	420	3330	363	2330	1940	79	110	4.3
13	49	35	716	1040	410	2670	680	2580	1930	70	83	5.8
14	75	33	502	941	400	1970	675	13200	1080	63	72	6.3
15	80	33	384	4710	3190	1470	576	13800	684	61	60	7.5
16	87	35	317	11700	10400	1140	522	5360	498	55	49	24
17	69	35	314	5840	7730	934	535	2650	416	153	38	115
18	56	34	321	2310	3860	787	726	3380	343	180	31	165
19	49	34	310	1460	2320	685	777	15900	273	126	100	140
20	45	35	281	1770	1620	635	1040	8250	245	114	219	90
21	54	35	255	1880	1250	839	2410	2870	341	88	185	67
22	97	35	230	1410	1010	1050	3390	1630	354	67	127	63
23	92	33	215	1060	814	1000	2400	1060	280	54	81	64
24	72	30	198	847	718	1020	5460	785	247	55	57	76
25	63	28	184	679	627	853	3750	627	354	49	43	113
26	53	28	167	585	560	741	2330	525	330	43	35	105
27	46	38	154	523	531	690	1610	462	347	39	28	87
28	43	388	141	519	677	679	1190	634	252	39	23	76
29	39	973	131	966	---	611	918	1850	200	63	19	173
30	35	495	124	1360	---	547	779	1090	217	68	22	85
31	33	---	118	1170	---	500	---	644	---	54	33	---
TOTAL	1359	2753	11730	53535	44831	53117	33924	94321	14652	3328	2351	1715.8
MEAN	43.8	91.8	378	1727	1601	1713	1131	3043	488	107	75.8	57.2
MAX	97	973	1950	11700	10400	10400	5460	15900	1940	251	224	173
MIN	13	28	118	98	400	500	266	462	200	39	19	4.3
CFSM	.06	.13	.52	2.39	2.22	2.37	1.57	4.21	.68	.15	.11	.08
IN.	.07	.14	.60	2.76	2.31	2.74	1.75	4.86	.75	.17	.12	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 1995, BY WATER YEAR (WY)

MEAN	218	664	1376	1819	2148	2321	1700	1103	568	401	258	149
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1925 - 1995

ANNUAL TOTAL	565380	317616.8										
ANNUAL MEAN	1549	870								1060		
HIGHEST ANNUAL MEAN										1808		1994
LOWEST ANNUAL MEAN										413		1988
HIGHEST DAILY MEAN	23300	Mar 28				15900	May 19		51300	Jan 30	1957	
LOWEST DAILY MEAN	13	Oct 8				4.3	Sep 12		.00	Oct 11	1953	
ANNUAL SEVEN-DAY MINIMUM	16	Oct 3				5.9	Sep 9		.00	Oct 11	1953	
INSTANTANEOUS PEAK FLOW						17500	May 19		66100	Jan 30	1957	
INSTANTANEOUS PEAK STAGE						27.07	May 19		43.40	Jan 30	1957	
INSTANTANEOUS LOW FLOW						4.3	Sep 12		.00	Oct 11	1953	
ANNUAL RUNOFF (CFSM)	2.15					1.21			1.47			
ANNUAL RUNOFF (INCHES)	29.13					16.36			19.94			
10 PERCENT EXCEEDS	4520					1960			2420			
50 PERCENT EXCEEDS	317					284			350			
90 PERCENT EXCEEDS	35					31			26			

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: Jan. 22-25 and Feb. 9-13. 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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	249	497	1310	371	3920	3720	1790	2960	1740	876	213	185
2	223	454	983	368	3440	3960	1540	5550	1690	821	206	311
3	203	440	867	355	3300	3710	1400	7410	1920	844	320	326
4	195	438	721	347	3580	3480	1300	6130	2240	741	362	332
5	184	422	1020	321	4560	3260	1220	5140	1910	630	312	223
6	182	421	1450	678	5470	4150	1120	4710	1600	615	302	143
7	175	470	1510	11600	4710	5100	1060	3750	1420	633	251	119
8	175	505	1250	16000	4000	13700	1000	3060	1270	599	221	117
9	175	441	1050	11800	3450	26700	978	2720	1180	552	299	99
10	194	410	1230	6460	2950	18200	990	3880	1130	468	637	87
11	219	394	4080	4340	2700	15000	918	6780	1520	406	511	77
12	228	392	4420	2560	2600	15400	1080	11000	5630	369	517	77
13	349	426	2620	2800	2300	14200	1780	9630	8220	335	441	77
14	506	450	1980	2660	1880	11400	1900	29700	5890	293	359	80
15	581	466	1510	10400	6330	8850	1670	35500	3420	284	285	136
16	606	470	1170	30000	25600	6070	1480	28900	2270	262	247	261
17	485	439	1070	27300	27100	4650	1440	19600	1890	269	202	431
18	407	404	975	13600	19000	3840	1760	21500	1410	512	166	469
19	381	404	932	8590	12500	3190	2030	39500	1090	438	181	476
20	552	403	836	8640	9800	2820	2420	35500	957	403	368	390
21	565	380	729	9310	8140	3120	5430	24000	1670	367	379	313
22	659	326	661	6900	7020	4040	8460	13100	1240	311	324	270
23	680	304	595	5000	5730	4410	6540	9840	1430	267	293	251
24	630	278	568	3800	4420	4180	17400	8250	1150	249	301	252
25	597	228	531	3000	3350	3910	13000	7240	1020	236	228	386
26	552	267	509	2420	2620	3420	7690	6300	1430	223	167	434
27	486	341	480	1930	2410	3060	5820	4720	1400	224	138	387
28	448	962	439	1950	2630	2830	4940	3490	1110	254	123	342
29	420	2240	415	2790	---	2590	4100	4250	942	326	109	340
30	395	1930	381	3860	---	2250	3240	3240	854	309	104	344
31	513	---	371	4130	---	2010	---	2220	---	240	99	---
TOTAL	12214	16002	36663	204280	185510	207220	105496	369570	60643	13356	8665	7735
MEAN	394	533	1183	6590	6625	6685	3517	11920	2021	431	280	258
MAX	680	2240	4420	30000	27100	26700	17400	39500	8220	876	637	476
MIN	175	228	371	321	1880	2010	918	2220	854	223	99	77
CFSM	.15	.20	.45	2.48	2.49	2.52	1.32	4.49	.76	.16	.11	.10
IN.	.17	.22	.51	2.86	2.60	2.90	1.48	5.17	.85	.19	.12	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1995, BY WATER YEAR (WY)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	1509	2827	5306	5789	7565	7506	5949	4928	2337	1130	993	816							
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1977 - 1995	
ANNUAL TOTAL	2194014		1227354			
ANNUAL MEAN	6011		3363		3870	
HIGHEST ANNUAL MEAN					6973	
LOWEST ANNUAL MEAN					1461	
HIGHEST DAILY MEAN	52400	Mar 29	39500	May 19	85900	May 8 1984
LOWEST DAILY MEAN	175	Oct 7	77	Sep 11	45	Jul 10 1988
ANNUAL SEVEN-DAY MINIMUM	183	Oct 4	88	Sep 8	53	Jul 4 1988
INSTANTANEOUS PEAK FLOW			42300	May 19	120000	Feb 4 1939
INSTANTANEOUS PEAK STAGE			19.99	May 19	35.60	Feb 4 1939
INSTANTANEOUS LOW FLOW			77	Sep 11	4.0	Oct 20 1930
ANNUAL RUNOFF (CFSM)	2.26		1.27		1.46	
ANNUAL RUNOFF (INCHES)	30.72		17.18		19.78	
10 PERCENT EXCEEDS	19500		8610		9800	
50 PERCENT EXCEEDS	1190		1020		1630	
90 PERCENT EXCEEDS	326		226		284	

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: Jan. 24-27, Feb. 6-18, 21, 22, 24, 25, Mar. 1-7, 9-19, 21, 22, and Mar. 24 to Apr. 13. Records good except for periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.45	7.2	31	12	79	86	43	168	77	10	.57	10
2	.69	6.8	23	13	86	83	41	589	120	8.9	.55	9.9
3	.68	6.6	19	12	99	84	39	317	102	8.2	.46	4.3
4	.63	6.8	23	10	137	76	37	210	86	6.6	.40	1.9
5	.62	6.8	153	7.3	129	87	34	163	58	5.9	.35	1.1
6	.65	7.6	104	467	103	122	33	115	46	11	.94	.91
7	.69	8.9	65	873	90	125	30	90	38	16	48	.83
8	.65	9.4	46	278	83	235	29	76	30	11	48	.76
9	.66	9.5	36	165	76	148	34	109	36	7.0	184	.62
10	.72	9.9	242	110	73	160	33	203	26	5.1	27	.56
11	1.4	11	395	90	66	260	29	186	44	3.8	20	.51
12	1.9	10	144	108	62	305	85	128	258	3.1	39	.39
13	22	9.7	86	91	55	253	80	578	136	2.6	13	.39
14	35	9.1	62	151	50	187	74	1180	73	2.0	8.6	.44
15	19	8.7	45	1190	489	143	64	752	49	1.5	5.6	.44
16	12	8.1	37	1490	400	114	58	354	38	1.3	4.2	2.3
17	9.1	7.7	57	390	360	94	114	453	29	1.2	3.0	22
18	7.1	7.6	51	231	298	78	124	1240	24	1.2	2.3	13
19	6.8	7.6	43	188	209	69	91	2390	20	2.5	6.6	6.8
20	6.8	7.3	37	320	157	67	231	450	20	2.8	4.8	3.8
21	6.8	7.1	33	222	135	143	444	249	26	2.1	3.0	2.8
22	6.8	6.8	29	161	99	132	306	155	22	1.6	4.5	4.2
23	8.8	6.7	27	122	86	134	459	99	20	1.5	3.1	7.1
24	9.4	6.3	24	94	74	114	1230	73	16	1.5	2.0	4.1
25	8.4	5.8	21	80	62	93	432	55	14	1.5	1.6	2.8
26	7.5	5.5	19	72	58	82	262	45	25	1.5	1.5	2.5
27	6.6	9.6	16	65	56	77	180	39	26	1.3	1.1	2.7
28	5.9	286	15	74	106	71	133	92	18	1.0	.91	2.8
29	5.4	92	14	90	---	60	97	67	13	.85	.75	2.5
30	4.9	45	14	81	---	45	90	42	10	.80	.69	1.7
31	4.8	---	14	78	---	47	---	33	---	.65	.76	---
TOTAL	202.84	637.1	1925	7335.3	3777	3774	4936	10700	1500	126.00	437.28	114.15
MEAN	6.54	21.2	62.1	237	135	122	165	345	50.0	4.06	14.1	3.80
MAX	35	286	395	1490	489	305	1230	2390	258	16	184	22
MIN	.45	5.5	14	7.3	50	45	29	33	10	.65	.35	.39
CFSM	.08	.27	.80	3.06	1.75	1.57	2.13	4.47	.65	.05	.18	.05
IN.	.10	.31	.93	3.53	1.82	1.82	2.38	5.15	.72	.06	.21	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1995, BY WATER YEAR (WY)

	1993	1994	1995	1993	1994	1995	1993	1994	1995	1993	1994	1995
MEAN	26.2	77.2	141	260	268	326	205	172	39.4	10.1	23.7	13.4
MAX	63.0	151	193	403	484	540	304	345	50.0	17.5	29.3	31.0
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1995	1994	1994	1993
MIN	6.54	21.2	62.1	139	135	122	147	26.1	19.1	4.06	14.1	3.80
(WY)	1995	1995	1995	1993	1993	1993	1993	1993	1994	1995	1995	1995

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1993 - 1995

ANNUAL TOTAL	61307.16	35464.67	
ANNUAL MEAN	168	97.2	130
HIGHEST ANNUAL MEAN			195
LOWEST ANNUAL MEAN			96.9
HIGHEST DAILY MEAN	2890	Feb 23	2890
LOWEST DAILY MEAN	.45	Oct 1	.35
ANNUAL SEVEN-DAY MINIMUM	.61	Sep 30	.48
INSTANTANEOUS PEAK FLOW			7660
INSTANTANEOUS PEAK STAGE			14.33
INSTANTANEOUS LOW FLOW			.33
ANNUAL RUNOFF (CFSM)	2.17	1.26	1.68
ANNUAL RUNOFF (INCHES)	29.50	17.07	22.77
10 PERCENT EXCEEDS	445	233	320
50 PERCENT EXCEEDS	29	31	39
90 PERCENT EXCEEDS	4.1	1.2	2.9

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: Dec. 28 to Jan. 4, Feb. 4-14. Records fair except for discharges below 10 ft³/s and periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	1.3	11	3.8	131	164	30	88	21	12	.64	2.4
2	4.0	.85	7.6	3.5	119	119	27	301	23	8.0	3.2	2.0
3	3.2	.94	6.1	3.2	100	94	25	220	26	4.4	1.6	.67
4	.84	2.7	8.8	3.2	84	79	25	157	20	3.5	.83	.60
5	.57	3.5	107	2.7	74	79	21	150	16	3.6	.71	.56
6	.58	3.4	82	178	64	252	20	108	13	7.0	1.9	.54
7	.66	4.2	42	632	57	308	19	84	12	8.6	1.7	.50
8	1.2	3.7	25	220	50	730	19	67	10	4.3	5.3	.50
9	1.3	2.8	18	120	45	559	22	72	9.0	2.3	26	.49
10	.49	1.3	161	78	40	358	21	150	32	2.1	3.0	.49
11	.49	1.5	319	60	36	349	18	185	63	1.8	24	.51
12	.48	1.5	108	55	33	376	43	117	465	1.5	39	.50
13	14	1.3	56	42	30	279	74	133	175	1.4	6.5	.48
14	34	1.2	34	55	27	206	57	836	80	1.3	3.1	.44
15	16	1.1	23	651	197	159	49	619	46	1.4	1.8	.50
16	7.4	1.0	20	999	612	127	45	285	30	1.0	1.2	.58
17	4.3	1.1	31	344	501	103	42	494	21	.93	.97	5.7
18	3.3	1.1	24	195	277	83	45	729	15	.88	.96	1.7
19	4.9	1.1	19	177	181	71	38	1790	12	.79	1.9	.65
20	6.8	1.0	16	395	131	66	61	547	11	.83	1.3	.46
21	4.3	1.0	13	253	101	104	198	246	10	1.2	.75	.40
22	1.7	1.1	12	170	73	88	219	163	8.5	1.1	.66	.38
23	2.3	1.1	11	129	63	83	255	114	7.2	.89	.63	.33
24	1.3	.91	9.5	97	55	73	1020	81	6.5	3.9	.60	.31
25	1.1	.82	8.5	72	41	62	393	59	6.0	4.0	.57	.29
26	.78	.97	7.3	63	36	54	231	54	6.7	32	.56	.27
27	.70	2.9	6.5	50	33	52	156	41	4.9	6.3	.57	.27
28	.82	152	5.8	142	179	48	119	71	4.5	2.6	.58	.27
29	.74	57	5.2	289	---	41	84	50	4.3	1.3	.58	.29
30	.67	20	4.7	206	---	36	73	33	9.4	.92	.58	.29
31	1.4	---	4.3	152	---	32	---	24	---	.70	.56	---
TOTAL	122.32	274.39	1206.3	5840.4	3370	5234	3449	8068	1168.0	122.54	132.25	23.37
MEAN	3.95	9.15	38.9	188	120	169	115	260	38.9	3.95	4.27	5.7
MAX	34	152	319	999	612	730	1020	1790	465	32	39	7.8
MIN	.48	.82	4.3	2.7	27	32	18	24	4.3	.70	.56	.27
CFSM	.06	.14	.59	2.86	1.83	2.57	1.75	3.96	.59	.06	.06	.01
IN.	.07	.16	.68	3.30	1.91	2.96	1.95	4.56	.66	.07	.07	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1995, BY WATER YEAR (WY)

MEAN	17.3	52.5	118	131	182	195	157	96.4	36.3	30.1	25.8	14.9
MAX	138	227	555	357	555	523	472	318	163	157	141	180
(WY)	1990	1986	1979	1974	1989	1955	1972	1983	1974	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1954 - 1995	
ANNUAL TOTAL	46787.71		29010.57			
ANNUAL MEAN	128		79.5"		87.9	
HIGHEST ANNUAL MEAN					153	
LOWEST ANNUAL MEAN					39.6	
HIGHEST DAILY MEAN	1680	Mar 10	1790	May 19	6170	Dec 9 1978
LOWEST DAILY MEAN	.48	Oct 12	.27	Sep 26	.00	Sep 14 1954
ANNUAL SEVEN-DAY MINIMUM	.74	Oct 6	.28	Sep 24	.00	Sep 12 1955
INSTANTANEOUS PEAK FLOW			2210	May 19	9080	Feb 27 1962
INSTANTANEOUS PEAK STAGE			8.56	May 19	22.12	Feb 27 1962
ANNUAL RUNOFF (CFSM)	1.95		1.21		1.34	
ANNUAL RUNOFF (INCHES)	26.45		16.40		18.15	
10 PERCENT EXCEEDS	328		211		200	
50 PERCENT EXCEEDS	16		16		30	
90 PERCENT EXCEEDS	1.1		.60		1.4	

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. 30 to Jan. 5, Feb. 2-14. 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. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	23	157	55	587	1040	194	507	209	233	26	15
2	16	24	106	51	470	715	185	1330	237	234	30	56
3	15	29	80	48	390	554	173	1340	235	119	35	60
4	15	33	88	45	350	481	162	894	235	81	24	41
5	14	30	250	42	305	482	154	955	182	62	23	29
6	13	26	448	529	275	1420	143	817	150	208	34	22
7	12	25	307	3090	250	1650	135	617	167	299	72	19
8	12	25	208	1850	225	2370	132	507	136	153	58	17
9	14	25	152	769	205	3240	134	911	110	94	44	15
10	13	25	562	506	188	1940	151	1260	96	68	157	14
11	13	23	1910	406	175	1660	139	1330	226	54	82	14
12	14	24	866	399	160	1650	473	1030	1200	46	84	14
13	67	26	423	360	150	1360	700	878	1520	40	94	14
14	208	26	289	460	140	993	460	2860	612	37	79	13
15	158	25	219	2490	713	775	361	5160	372	33	47	20
16	90	25	187	4570	3550	626	307	3520	269	31	35	23
17	61	25	261	3920	4060	526	295	3040	209	72	29	44
18	44	24	267	1230	1810	452	311	6390	164	53	31	107
19	35	24	221	885	1090	391	291	8770	134	42	186	69
20	45	24	182	1400	793	358	304	9010	114	35	197	41
21	69	24	154	1340	621	453	781	3950	105	30	139	30
22	62	23	135	855	495	455	859	1200	99	27	65	25
23	48	22	121	618	418	392	889	807	86	25	40	26
24	40	21	110	491	377	360	3480	580	77	26	30	23
25	34	21	99	391	320	320	3150	451	102	36	25	21
26	29	22	89	332	284	289	1220	367	93	54	21	20
27	27	43	80	293	270	272	814	321	71	64	19	19
28	26	698	74	733	814	263	640	377	63	76	17	19
29	25	704	69	1600	---	244	520	488	56	50	16	18
30	24	276	64	1100	---	224	439	323	57	38	15	17
31	23	---	59	751	---	207	---	250	---	30	15	---
TOTAL	1282	2365	8237	31609	19485	26162	17996	60240	7386	2450	1769	865
MEAN	41.4	78.8	266	1020	696	844	600	1943	246	79.0	57.1	28.8
MAX	208	704	1910	4570	4060	3240	3480	9010	1520	299	197	107
MIN	12	21	59	42	140	207	132	250	56	25	15	1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1995, BY WATER YEAR (WY)

MEAN	87.6	277	625	780	1026	1068	834	520	263	261	185	109
MAX	928	1220	3036	2634	3564	3048	2406	1943	1199	1845	1179	1185
(WY)	1990	1987	1979	1950	1989	1955	1972	1995	1950	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1931 - 1995

ANNUAL TOTAL	273406		179846									
ANNUAL MEAN	749		493							495		
HIGHEST ANNUAL MEAN										884		1989
LOWEST ANNUAL MEAN										158		1941
HIGHEST DAILY MEAN	11300	Mar 10				9010	May 20			26100	Dec 9 1978	
LOWEST DAILY MEAN	12	Oct 7				12	Oct 7			1.2	Aug 10 1944	
ANNUAL SEVEN-DAY MINIMUM	13	Oct 5				13	Oct 5			2.0	Oct 2 1930	
INSTANTANEOUS PEAK FLOW						10200	May 20			28800	Dec 9 1978	
INSTANTANEOUS PEAK STAGE						18.27	May 20			26.75	Dec 9 1978	
INSTANTANEOUS LOW FLOW						12	Oct 9			1.2	Aug 10 1944	
10 PERCENT EXCEEDS	2160					1220				1180		
50 PERCENT EXCEEDS	135					152				180		
90 PERCENT EXCEEDS	23					22				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.--No estimated daily discharges: Records good above 1,000 ft³/s and fair below. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section. 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 1994 TO SEPTEMBER 1995

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	390	569	2350	712	5880	5590	2550	4850	2750	2080	424	160
2	367	606	1780	751	5330	5870	2320	10600	2590	1690	379	231
3	342	564	1440	737	4720	5500	2120	11700	2650	1420	375	387
4	320	543	1860	685	4730	5030	1990	10200	2800	1300	453	467
5	302	529	3750	624	5070	4940	1900	8550	2720	1140	508	489
6	300	498	2870	2700	6190	8420	1810	7590	2320	1320	548	380
7	298	501	2720	15700	6110	10100	1710	6490	2090	1560	524	265
8	292	538	2270	20000	5400	17700	1650	5040	1910	1290	611	201
9	325	574	1910	12800	4860	30600	1650	6810	1780	1050	765	160
10	364	548	5150	7610	3860	30500	1630	9500	1640	913	1300	139
11	341	509	9990	5030	3630	21800	1600	8460	1610	787	1240	131
12	341	473	8160	4560	3300	19600	1840	12100	4530	689	1060	136
13	1180	477	5170	4160	2930	18500	3020	15600	10100	607	981	151
14	1910	499	3390	4890	2670	15800	3170	35100	8880	543	861	158
15	1470	513	2660	18000	6080	12500	2820	44300	5770	593	718	147
16	1190	537	2160	34000	28700	9570	2540	44000	3520	943	562	188
17	987	556	2330	40900	38600	7150	2400	40200	2660	547	452	421
18	787	512	2150	29200	32400	5700	3380	42700	2200	609	369	642
19	630	479	1930	13900	19200	4750	3290	46800	1830	683	624	805
20	597	473	1730	13100	13600	4040	3240	49600	1590	665	787	781
21	698	461	1540	13100	11100	4130	6790	47200	1740	600	735	650
22	774	428	1410	11000	9260	4690	10700	29100	1930	539	693	499
23	869	363	1290	7870	8080	5400	10600	13700	1730	455	568	392
24	859	327	1170	6240	6540	5420	22700	10800	1790	435	501	277
25	807	312	1090	4770	5150	5020	24900	9060	1930	425	457	277
26	750	277	1000	3860	3960	4580	14700	7940	1870	509	354	423
27	691	522	932	3170	3400	4020	9420	6950	1920	525	257	497
28	609	5160	873	5690	4300	3730	7640	5360	1770	548	223	487
29	546	4130	827	7460	---	3420	6410	4840	1530	520	204	416
30	508	3270	777	6640	---	3110	5210	5020	1420	482	188	422
31	501	---	730	6320	---	2780	---	3520	---	476	168	---
TOTAL	20345	25748	77409	306179	255050	289960	165700	563680	83570	25943	17889	10779
MEAN	656	858	2497	9877	9109	9354	5523	18180	2786	837	577	359
MAX	1910	5160	9990	40900	38600	30600	24900	49600	10100	2080	1300	805
MIN	292	277	730	624	2670	2780	1600	3520	1420	425	168	131

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1995, BY WATER YEAR (WY)

MEAN	1605	3437	7371	8748	10340	12130	9505	6616	3051	1686	1541	1241
MAX	12850	10270	23400	25490	25060	27650	26100	19600	13380	4640	4916	6676
(WY)	1990	1987	1979	1974	1989	1975	1972	1984	1989	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1961 - 1995	
ANNUAL TOTAL	3097044		1842252			
ANNUAL MEAN	8485		5047		5584	
HIGHEST ANNUAL MEAN					9815	
LOWEST ANNUAL MEAN					2228	
HIGHEST DAILY MEAN	61000	Mar 11	49600	May 20	99100	Dec 10 1978
LOWEST DAILY MEAN	202	Sep 16	131	Sep 11	116	Oct 20 1980
ANNUAL SEVEN-DAY MINIMUM	241	Sep 10	146	Sep 9	122	Oct 16 1980
INSTANTANEOUS PEAK FLOW			50000		101000	
INSTANTANEOUS PEAK STAGE			22.26		40.15	
10 PERCENT EXCEEDS	28900		12600		14100	
50 PERCENT EXCEEDS	1890		1810		2390	
90 PERCENT EXCEEDS	462		373		343	

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. Auxiliary nonrecording gage at site 2 mi downstream from base gage read during periods of possible backwater.

REMARKS.--Estimated daily discharges: Oct. 23 to Nov. 27, Jan. 2-5, Feb. 8-15, May 2, Aug. 3. Records good except for periods of estimated record, which are fair. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality section.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	10.0	125	66	379	249	148	256	221	52	11	4.5
2	10	9.8	87	62	335	212	135	1900	703	54	10	4.4
3	6.4	9.6	69	59	345	185	122	1020	698	47	70	4.6
4	4.9	10	100	57	331	176	109	584	507	43	46	4.7
5	4.0	11	1510	55	292	182	99	434	312	38	28	4.7
6	4.3	13	543	761	223	769	90	338	231	49	21	4.4
7	2.8	13	296	4270	206	965	86	270	186	41	125	4.4
8	1.8	12	203	1370	190	6350	79	213	153	34	743	4.2
9	1.4	11	153	704	175	2860	78	1280	176	42	302	4.2
10	1.3	11	923	491	165	1660	77	2800	162	33	151	4.2
11	1.1	12	2750	389	160	1510	79	1210	130	25	89	4.0
12	1.0	11	821	400	150	1160	81	709	978	20	66	4.0
13	1.5	10.5	454	413	148	807	114	1540	469	18	51	3.7
14	148	10.5	310	363	172	590	126	6990	265	15	33	5.1
15	148	10	234	3810	2680	462	93	2900	180	12	24	5.8
16	81	12	191	3420	4940	381	79	1130	135	11	18	7.1
17	56	11	208	1420	2540	302	418	2550	105	11	14	11
18	37	10	231	834	1210	258	879	7320	84	11	12	43
19	28	9.8	194	599	807	224	549	16300	73	17	25	35
20	23	9.6	166	684	609	206	479	2580	68	35	17	34
21	18	9.2	145	577	498	301	2730	992	63	23	14	28
22	15	9.2	133	429	387	318	1230	639	58	16	12	20
23	27	9.6	127	349	326	274	817	450	60	17	15	15
24	25	11	118	291	280	317	3420	338	64	19	16	11
25	21	10.5	106	240	235	237	1290	314	85	21	12	9.9
26	17	10	95	215	212	196	713	374	239	18	9.4	6.6
27	15	9.6	86	193	193	188	484	276	136	18	5.8	5.6
28	13	862	80	361	205	256	369	348	99	17	5.3	5.1
29	12	700	76	972	---	220	285	417	94	17	5.2	4.4
30	11	204	72	571	---	183	236	262	69	18	4.8	4.1
31	10.5	---	68	441	---	165	---	191	---	13	4.7	---
TOTAL	757.0	2051.9	10674	24866	18393	22163	15494	56925	6803	805	1960.2	306.7
MEAN	24.4	68.4	344	802	657	715	516	1836	227	26.0	63.2	10.2
MAX	148	862	2750	4270	4940	6350	3420	16300	978	54	743	43
MIN	1.0	9.2	68	55	148	165	77	191	58	11	4.7	3.7
CFSM	.08	.22	1.08	2.52	2.07	2.25	1.62	5.77	.71	.08	.20	.03
IN.	.09	.24	1.25	2.91	2.15	2.59	1.81	6.66	.80	.09	.23	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1995, BY WATER YEAR (WY)

MEAN	99.5	308	684	788	1004	989	681	464	238	151	94.5	160
MAX	1323	1471	3656	3140	4129	2625	2736	2618	933	926	527	3430
(WY)	1980	1987	1979	1950	1989	1994	1972	1983	1981	1958	1958	1979
MIN	.000	.030	.69	17.0	72.1	174	57.1	51.8	8.83	.31	.93	.013
(WY)	1953	1954	1954	1981	1954	1983	1986	1976	1988	1944	1952	1953

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1943 - 1995

ANNUAL TOTAL	234130.8					161198.8						
ANNUAL MEAN	641					442				469		
HIGHEST ANNUAL MEAN										1184		1979
LOWEST ANNUAL MEAN										119		1954
HIGHEST DAILY MEAN	17800	Mar 10				16300	May 19		27100		Dec 8	1978
LOWEST DAILY MEAN	1.0	Oct 12				1.0	Oct 12		.00		Jul 21	1944
ANNUAL SEVEN-DAY MINIMUM	1.6	Oct 7				1.6	Oct 7		.00		Jul 29	1944
INSTANTANEOUS PEAK FLOW						25400	May 19		44400		Dec 9	1978
INSTANTANEOUS PEAK STAGE						14.39	May 19		21.81		Dec 9	1978
INSTANTANEOUS LOW FLOW						1.3	Oct 12		1.3		Oct 12	1994
ANNUAL RUNOFF (CFSM)	2.02					1.39			1.48			
ANNUAL RUNOFF (INCHES)	27.39					18.86			20.04			
10 PERCENT EXCEEDS	1500					968			1070			
50 PERCENT EXCEEDS	105					114			121			
90 PERCENT EXCEEDS	8.9					6.9			2.8			

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 current year.

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

REMARKS.--Estimated daily discharges: Nov. 9-22 and Feb. 1-14. Records good except for periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	4.9	13	11	33	22	12	157	71	76	5.5	15
2	1.5	4.5	12	13	30	20	13	248	172	26	9.0	6.3
3	1.6	4.3	10	11	27	19	14	94	85	19	5.8	3.6
4	2.8	3.8	131	11	24	19	12	59	52	15	5.4	3.9
5	2.9	3.7	101	10	21.5	31	10	45	38	17	6.2	3.6
6	2.6	5.3	37	311	19.5	73	10	36	31	18	21	3.4
7	2.8	5.0	25	225	18.0	184	9.6	30	24	14	153	3.6
8	3.1	4.6	19	109	16.5	957	8.8	26	20	11	92	3.4
9	10	6.0	19	69	15.5	242	8.1	249	79	9.3	34	3.1
10	7.2	6.8	327	49	14.0	172	8.7	128	30	8.4	20	3.0
11	4.2	5.0	179	42	13.5	137	7.7	74	29	7.7	16	3.3
12	2.4	4.7	78	37	12.5	92	14	51	70	6.0	12	3.2
13	22	4.5	47	32	12.0	63	9.1	616	39	5.5	9.4	22
14	10	6.2	33	70	11.5	49	6.2	593	27	5.5	7.8	8.9
15	6.3	6.0	25	253	421	40	5.6	314	22	5.4	5.6	4.5
16	6.2	5.9	26	209	506	34	5.4	140	18	8.0	4.9	10
17	6.9	5.8	30	118	223	30	13	289	16	10	5.7	20
18	5.3	4.0	25	77	134	27	12	936	17	6.2	5.3	9.3
19	7.8	3.5	21	62	92	24	22	394	15	4.9	4.7	6.6
20	10	3.2	18	58	67	27	53	157	14	4.2	4.4	5.3
21	6.9	3.1	16	46	52	32	188	98	13	3.3	3.7	5.1
22	12	3.0	17	38	41	24	51	63	11	3.8	3.8	4.6
23	9.1	5.3	17	34	36	28	131	43	10	12	4.4	4.0
24	6.7	3.9	16	28	31	22	155	35	8.3	17	3.8	3.8
25	5.6	4.1	14	24	26	19	75	35	239	8.4	2.9	3.7
26	5.2	4.3	13	22	24	18	50	39	114	8.0	2.8	4.2
27	4.5	28	13	21	23	19	39	28	36	16	2.4	4.1
28	4.6	122	11	107	26	18	30	94	26	17	2.5	4.1
29	4.4	23	11	96	---	16	24	46	50	8.2	3.0	3.8
30	4.1	16	10	63	---	14	23	31	22	6.3	3.0	2.2
31	4.5	---	11	47	---	12	---	25	---	6.2	2.3	---
TOTAL	185.1	310.4	1325	2303	1970.5	2484	1020.2	5173	1398.3	383.3	462.3	181.6
MEAN	5.97	10.3	42.7	74.3	70.4	80.1	34.0	167	46.6	12.4	14.9	6.05
MAX	22	122	327	311	506	957	188	936	239	76	153	22
MIN	1.5	3.0	10	10	11	12	5.4	25	8.3	3.3	2.3	2.2
CFSM	.23	.39	1.62	2.81	2.67	3.04	1.29	6.32	1.77	.47	.56	.23
IN.	.26	.44	1.87	3.25	2.78	3.50	1.44	7.29	1.97	.54	.65	.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1995, BY WATER YEAR (WY)

MEAN	9.56	21.2	43.4	85.2	100	137	55.1	75.8	29.6	13.9	15.3	5.98
MAX	17.3	35.7	60.1	127	149	238	93.7	167	46.6	17.4	23.8	7.16
(WY)	1994	1994	1994	1994	1994	1994	1994	1995	1995	1994	1994	1993
MIN	5.40	10.3	27.3	54.6	70.4	80.1	34.0	10.5	15.9	11.8	7.18	4.73
(WY)	1993	1995	1993	1993	1995	1995	1995	1993	1994	1993	1993	1994

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1993 - 1995	
ANNUAL TOTAL	23562.6		17196.7			
ANNUAL MEAN	64.6		47.1		49.1	
HIGHEST ANNUAL MEAN					69.1	
LOWEST ANNUAL MEAN					31.2	
HIGHEST DAILY MEAN	2570	Mar 9	957	Mar 8	2570	Mar 9 1994
LOWEST DAILY MEAN	1.5	Oct 2	1.5	Oct 2	1.5	Oct 2 1994
ANNUAL SEVEN-DAY MINIMUM	2.3	Oct 1	2.3	Oct 1	2.1	Jul 5 1993
INSTANTANEOUS PEAK FLOW			2730		4120	
INSTANTANEOUS PEAK STAGE			7.24		7.24	
INSTANTANEOUS LOW FLOW			1.2		1.2	
ANNUAL RUNOFF (CFSM)	2.45		1.78		1.86	
ANNUAL RUNOFF (INCHES)	33.20		24.23		25.29	
10 PERCENT EXCEEDS	144		116		107	
50 PERCENT EXCEEDS	19		16		18	
90 PERCENT EXCEEDS	3.9		3.8		4.0	

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: Nov. 15 to Jan. 27 and Feb. 8-10. Records good above 1000 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. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	311	590	3970	704	7650	6280	2770	5610	5520	1270	553	615
2	413	1840	2720	726	7190	7260	2540	11700	5700	1780	540	356
3	408	1780	1910	740	6100	6490	2470	14800	6130	1510	549	188
4	207	1890	1670	760	5060	5630	2240	13300	5760	1170	476	179
5	203	2160	5270	800	5030	4990	2210	10400	5190	1040	458	347
6	235	1010	7710	3400	5610	5850	2050	8940	4000	1230	467	602
7	474	646	4500	11000	6110	11300	1850	7460	3210	919	537	100
8	162	965	3600	21000	5870	25400	1690	6560	2500	1090	824	95
9	288	524	2900	16000	5030	30800	1650	6450	2100	947	888	147
10	308	588	4400	11000	3900	34900	1620	15500	2640	746	1370	158
11	206	665	18100	8000	3580	30000	1580	12100	1820	614	2520	146
12	335	603	11000	7000	3440	23100	1510	11100	2280	464	1960	116
13	187	691	8000	6700	3180	20800	1970	14500	6680	407	1640	183
14	1220	573	5700	6400	2640	18800	3030	33200	10300	604	1390	182
15	2210	475	4000	14100	3370	15700	3120	44300	8600	867	1490	525
16	1570	640	3100	30000	18600	13000	2780	47100	5970	799	1410	257
17	1010	610	2400	39000	38000	10400	2450	45700	4160	617	1410	271
18	766	570	2100	33000	37400	8370	3010	52300	2700	686	1350	391
19	1010	540	2000	24000	27800	7110	4070	68200	2210	607	1270	477
20	846	519	3020	15900	17700	6250	3510	68600	2210	843	1140	622
21	714	480	2270	15400	13500	5810	5560	61400	2100	904	796	709
22	2160	440	1520	13700	11500	5830	9710	49800	2090	510	739	697
23	1910	404	1420	10000	9860	4920	10900	23300	2120	450	943	488
24	733	375	1430	8500	8730	5320	16300	14100	1520	517	494	389
25	702	350	1100	7000	7300	5210	26000	11600	1690	679	418	334
26	753	329	1040	5900	6090	4780	21800	11000	2100	509	377	291
27	883	1000	1310	4500	5160	4360	13200	9690	2390	882	335	295
28	766	3000	1060	6510	5200	3870	10600	8470	2670	500	300	355
29	746	6800	983	12500	---	3660	8770	7750	2130	436	748	393
30	463	5030	840	9840	---	3400	6410	7110	1340	400	441	406
31	420	---	753	8980	---	3080	---	6640	---	408	636	---
TOTAL	22619	36087	111796	353060	280600	342670	177370	708680	109830	24405	28469	10314
MEAN	730	1203	3606	11390	10020	11050	5912	22860	3661	787	918	344
MAX	2210	6800	18100	39000	38000	34900	26000	68600	10300	1780	2520	709
MIN	162	329	753	704	2640	3080	1510	5610	1340	400	300	95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1995, BY WATER YEAR (WY)

	1996	4201	9340	10930	12780	15030	11730	8261	3899	2051	1993	1742
MEAN	13680	12450	31030	31910	34850	33640	35920	26910	14700	5406	6238	10850
MAX (WY)	1990	1987	1979	1974	1989	1975	1972	1983	1989	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1961 - 1995

ANNUAL TOTAL	3527652	2205900	
ANNUAL MEAN	9665	6044	6970
HIGHEST ANNUAL MEAN			11050
LOWEST ANNUAL MEAN			2826
HIGHEST DAILY MEAN	71000	Mar 11	68600
LOWEST DAILY MEAN	162	Oct 8	95
ANNUAL SEVEN-DAY MINIMUM	268	Oct 5	135
INSTANTANEOUS PEAK FLOW			74400
INSTANTANEOUS PEAK STAGE			30.08
10 PERCENT EXCEEDS	30600		15000
50 PERCENT EXCEEDS	2100		2130
90 PERCENT EXCEEDS	478		392
			17800
			3020
			484
			130000
			49.04
			Dec 10 1978
			Sep 8 1984
			Nov 8 1991
			Dec 10 1978
			Dec 10 1978

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: Sept. 9-12. Record good above 1,000 ft³/s except for period of estimated record, which is fair. Records poor below 1,000 ft³/s. 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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	345	636	4440	765	8900	7310	3350	5380	5960	1830	565	754
2	300	1480	3190	718	8150	8350	2970	11200	9810	2220	579	573
3	349	1620	2380	669	7190	7840	2680	14800	7240	2060	600	420
4	338	1920	2320	978	6070	6890	2350	13400	6250	1720	552	394
5	303	1930	5800	1080	5840	6450	2200	10400	5330	1640	594	409
6	271	1090	6860	1450	5960	7170	2080	8900	4190	1760	1130	700
7	390	676	5800	14500	6230	13600	1940	7490	3280	1360	898	415
8	297	829	5150	23100	6250	33700	1800	6520	2570	1490	4370	371
9	275	594	3710	22100	5960	33900	1750	7350	2270	1360	1540	340
10	360	645	5340	14400	4920	36200	1730	15600	2620	1130	1680	310
11	281	632	16100	10000	3450	33000	1750	13000	2200	919	2730	290
12	326	543	14400	8430	3310	27100	1870	11100	3610	783	2350	270
13	309	583	10600	7950	3310	24000	2200	15600	6590	677	1980	308
14	685	532	7910	7440	3060	21200	3150	34700	10300	837	1750	307
15	1860	496	6160	15500	4710	17700	3420	43700	9410	1110	1790	519
16	1670	704	5160	31700	22600	14600	3180	46900	6830	1120	1740	521
17	1090	675	4520	38500	40900	11700	2910	48300	4850	807	1720	560
18	749	610	3450	38700	37800	9400	3160	57900	3310	871	1660	543
19	1190	630	3120	27400	32800	8110	4420	70400	2780	738	1630	591
20	892	541	3490	16500	21100	7240	3960	69900	2770	918	1460	720
21	790	582	2900	15900	15600	6750	7420	63900	2630	977	1050	825
22	1680	540	2090	14900	13300	6710	10200	53100	2680	661	876	905
23	1790	500	1810	11700	11400	5870	11000	28600	2640	567	1100	696
24	965	493	1670	9560	10100	6050	16600	14800	2040	595	748	578
25	820	457	1320	7910	8650	6000	27100	11900	2180	699	592	512
26	780	459	1020	6660	7420	5600	24100	10900	2570	555	546	490
27	1100	554	1300	5800	6480	5220	14200	9750	3280	892	525	475
28	887	1690	1040	11500	6420	4680	10700	8630	3290	627	467	494
29	894	6350	966	15100	---	4400	8750	7810	2690	509	791	531
30	706	5440	864	11300	---	4180	6340	7090	1910	483	670	554
31	571	---	778	10200	---	3650	---	6650	---	471	713	---
TOTAL	23263	34431	135658	402410	317880	394570	189280	735670	128080	32386	39396	15375
MEAN	750	1148	4376	12980	11350	12730	6309	23730	4269	1045	1271	512
MAX	1860	6350	16100	38700	40900	36200	27100	70400	10300	2220	4370	905
MIN	271	457	778	669	3060	3650	1730	5380	1910	471	467	270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961-1995, BY WATER YEAR (WY)

MEAN	2111	4502	9865	11480	13360	15830	12180	8626	4098	2208	2140	1868
MAX	13240	13700	33220	33500	35680	34760	36690	28200	14000	6039	6433	10980
(WY)	1990	1987	1979	1974	1989	1975	1972	1983	1989	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1961 - 1995	
ANNUAL TOTAL	3751024		2448399			
ANNUAL MEAN	10280		6708		7329	
HIGHEST ANNUAL MEAN					11860	
LOWEST ANNUAL MEAN					3182	
HIGHEST DAILY MEAN	82800	Mar 10	70400	May 19	116000	Dec 10 1978
LOWEST DAILY MEAN	271	Oct 6	270	Sep 12	93	Jul 10 1988
ANNUAL SEVEN-DAY MINIMUM	311	Oct 5	311	Oct 5	128	Jul 4 1988
INSTANTANEOUS PEAK FLOW			73600		118000	
INSTANTANEOUS PEAK STAGE			33.76		48.47	
10 PERCENT EXCEEDS	33700		15600		18200	
50 PERCENT EXCEEDS	2120		2570		3280	
90 PERCENT EXCEEDS	510		511		530	

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: Oct. 5-7, Dec. 29 to Jan. 5, Feb. 7-14. Records good except for periods of estimated record, which are fair. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality section.

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

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	11	33	26	349	108	42	80	135	30	9.8	4.5
2	3.0	12	23	24	304	93	40	336	343	26	17	4.6
3	3.0	11	17	22	232	86	38	323	315	21	13	5.3
4	2.7	11	20	21	190	82	35	191	204	17	7.6	5.2
5	2.5	11	404	20	153	84	32	185	150	16	9.2	4.4
6	2.4	20	284	59	120	133	30	160	120	17	111	3.7
7	2.3	21	139	954	100	293	29	122	97	15	92	4.0
8	2.1	15	78	427	84	3480	28	100	82	17	50	6.3
9	2.2	14	60	264	74	1870	34	160	80	14	37	3.1
10	2.3	17	237	187	64	885	37	831	96	12	583	2.5
11	1.6	8.9	1120	156	58	716	33	460	78	9.9	283	2.1
12	2.6	9.0	425	190	52	573	38	327	549	8.8	120	2.1
13	4.9	11	254	200	48	432	67	308	369	8.1	73	3.2
14	7.4	9.8	164	170	45	334	48	819	203	7.2	51	3.9
15	24	8.3	112	484	184	259	36	764	132	17	38	2.9
16	14	15	92	997	861	206	30	466	98	59	30	4.7
17	9.9	19	160	605	575	160	29	1730	81	26	23	48
18	7.4	36	193	392	377	134	33	6040	79	18	20	62
19	11	22	139	292	286	113	35	4840	64	13	24	27
20	8.5	15	105	332	228	104	32	1150	52	10	24	17
21	36	12	86	301	186	114	408	648	45	8.0	22	13
22	38	9.5	74	238	150	103	390	455	38	6.9	16	9.0
23	21	7.4	65	193	131	85	190	318	37	7.0	13	6.8
24	16	6.4	58	156	117	76	595	224	35	9.6	9.9	5.8
25	14	6.6	51	127	100	66	397	171	34	21	8.5	5.3
26	13	7.1	45	109	90	60	246	243	30	21	6.9	4.7
27	13	11	40	95	84	59	171	167	106	14	6.4	4.2
28	13	163	37	1310	91	56	130	225	67	12	7.3	3.8
29	12	155	33	2160	---	52	102	419	44	11	5.8	3.7
30	11	52	30	714	---	48	85	191	34	11	4.9	3.7
31	11	---	28	454	---	44	---	128	---	11	4.6	---
TOTAL	315.3	727.0	4606	11679	5333	10908	3440	22581	3797	494.5	1720.9	276.5
MEAN	10.2	24.2	149	377	190	352	115	728	127	16.0	55.5	9.22
MAX	38	163	1120	2160	861	3480	595	6040	549	59	583	62
MIN	1.6	6.4	17	20	45	44	28	80	30	6.9	4.6	2.1
CFSM	.09	.20	1.25	3.17	1.60	2.96	.96	6.12	1.06	.13	.47	.08
IN.	.10	.23	1.44	3.65	1.67	3.41	1.08	7.06	1.19	.15	.54	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1995, BY WATER YEAR (WY)

MEAN	34.2	88.0	255	285	346	385	236	181	89.4	56.0	49.4	44.4
MAX	312	347	1028	798	1169	995	746	881	502	371	375	702
(WY)	1976	1980	1979	1951	1989	1964	1972	1983	1974	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1950 - 1995

ANNUAL TOTAL	75632.6	65878.2	
ANNUAL MEAN	207	180	170
HIGHEST ANNUAL MEAN			319
LOWEST ANNUAL MEAN			28.0
HIGHEST DAILY MEAN	4120	6040	7860
LOWEST DAILY MEAN	1.6	1.6	.00
ANNUAL SEVEN-DAY MINIMUM	2.0	2.2	.00
INSTANTANEOUS PEAK FLOW		6740	8730
INSTANTANEOUS PEAK STAGE		17.97	20.22
ANNUAL RUNOFF (CFSM)	1.74	1.52	1.43
ANNUAL RUNOFF (INCHES)	23.64	20.59	19.37
10 PERCENT EXCEEDS	546	400	419
50 PERCENT EXCEEDS	46	48	47
90 PERCENT EXCEEDS	4.2	5.6	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.--Estimated daily discharges: Dec. 29 to Jan. 5, Feb. 9, 10, 13, and July 5-10. Records good except for periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality section.

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

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	9.5	77	25	407	125	40	101	271	32	19	7.9
2	7.7	9.6	61	23	373	107	37	374	618	28	72	7.5
3	6.5	9.7	52	22	284	96	37	371	452	24	18	7.4
4	5.1	8.9	93	21	232	90	34	220	271	19	10	7.2
5	5.0	8.7	545	20	190	101	31	201	193	19	53	7.2
6	5.0	11	362	53	168	154	30	182	146	18	361	7.2
7	4.8	12	195	911	157	325	29	138	114	17	125	6.5
8	4.5	11	126	493	134	3690	29	111	116	16	54	5.3
9	6.2	12	112	295	115	2160	40	224	123	15	34	5.3
10	8.6	22	369	214	106	1000	37	854	115	12	933	5.3
11	7.5	19	1140	179	96	795	35	532	151	10	364	4.8
12	7.2	14	510	207	92	633	50	363	964	10	146	4.9
13	15	15	299	222	83	475	71	403	480	8.2	78	6.0
14	21	15	198	201	80	358	59	1090	257	7.2	53	7.3
15	26	14	141	529	260	279	42	882	161	5.8	38	7.4
16	24	50	118	1070	1080	225	34	525	109	49	30	15
17	16	36	194	714	712	184	33	1710	82	26	23	95
18	12	35	229	468	464	151	34	6030	83	16	28	105
19	24	27	175	345	347	126	39	5240	62	12	58	45
20	24	19	132	392	276	113	42	1270	53	10	30	30
21	21	16	106	357	228	124	441	723	44	8.8	29	24
22	29	14	86	283	186	112	501	493	36	7.6	19	16
23	22	13	76	232	160	88	238	350	33	7.6	15	12
24	15	11	67	189	142	78	623	256	31	10	13	10
25	13	11	58	155	119	68	480	200	32	14	13	9.4
26	11	13	50	132	104	62	296	248	32	22	10	9.2
27	10	27	43	113	95	62	207	192	92	15	9.1	8.5
28	10	198	39	1390	104	60	157	233	69	11	9.0	8.7
29	10	264	35	2350	---	55	123	479	47	9.4	8.3	8.2
30	9.6	121	31	851	---	47	99	232	36	8.8	7.6	7.6
31	9.0	---	28	542	---	43	---	149	---	7.5	7.7	---
TOTAL	397.6	1046.4	5747	12998	6794	11986	3948	24376	5273	475.9	2667.7	500.8
MEAN	12.8	34.9	185	419	243	387	132	786	176	15.4	86.1	16.7
MAX	29	264	1140	2350	1080	3690	623	6030	964	49	933	105
MIN	4.5	8.7	28	20	80	43	29	101	31	5.8	7.6	4.8
CFSM	.09	.24	1.26	2.85	1.65	2.63	.90	5.35	1.20	.10	.59	.11
IN.	.10	.26	1.45	3.29	1.72	3.03	1.00	6.17	1.33	.12	.68	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1995, BY WATER YEAR (WY)

MEAN	42.0	216	220	461	416	538	255	389	135	25.1	91.0	14.3
MAX	71.2	398	267	631	540	664	408	786	211	39.5	156	17.6
(WY)	1994	1994	1994	1994	1994	1994	1994	1995	1993	1993	1993	1993
MIN	12.8	34.9	185	333	243	387	132	65.5	19.6	15.4	30.8	8.52
(WY)	1995	1995	1995	1993	1995	1995	1995	1993	1994	1995	1994	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1993 - 1995	
ANNUAL TOTAL	86911.5		76210.4			
ANNUAL MEAN	238		209		244	
HIGHEST ANNUAL MEAN					280	
LOWEST ANNUAL MEAN					209	
HIGHEST DAILY MEAN	4400	Mar 10	6030	May 18	6030	May 18 1995
LOWEST DAILY MEAN	4.5	Sep 22	4.5	Oct 8	4.5	Sep 22 1994
ANNUAL SEVEN-DAY MINIMUM	5.0	Jul 9	5.3	Oct 3	5.0	Jul 9 1994
INSTANTANEOUS PEAK FLOW			6880		6880	
INSTANTANEOUS PEAK STAGE			10.81		10.81	
ANNUAL RUNOFF (CFSM)	1.62		1.42		1.66	
ANNUAL RUNOFF (INCHES)	21.99		19.29		22.58	
10 PERCENT EXCEEDS	635		480		587	
50 PERCENT EXCEEDS	50		55		90	
90 PERCENT EXCEEDS	6.6		8.3		8.8	

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.--No estimated daily discharges: Records good above 10 cfs and poor below. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.4	11	8.7	53	24	9.9	22	49	4.0	.00	.37
2	2.1	1.4	8.4	8.9	49	20	9.9	39	61	3.0	.05	.31
3	1.8	1.2	9.0	7.9	46	19	8.7	28	61	2.3	.00	.23
4	1.6	.50	24	7.1	42	18	8.2	24	55	1.9	.00	.15
5	1.0	.96	58	6.5	38	23	7.5	31	47	2.1	6.3	.03
6	.50	2.2	37	22	35	28	6.8	24	41	1.6	34	.00
7	.18	1.7	27	52	33	39	5.5	19	37	1.4	10	.00
8	.49	1.3	22	45	31	120	6.0	15	34	.97	7.9	.00
9	2.2	1.9	23	36	25	82	9.3	32	38	.94	4.3	.00
10	2.9	4.6	53	31	21	69	6.5	42	32	.65	64	.00
11	2.6	2.8	65	30	20	63	5.7	42	39	.34	40	.00
12	1.9	2.0	54	30	18	58	21	37	58	.29	23	.13
13	8.4	1.8	41	28	16	55	14	42	43	.16	16	.19
14	5.7	1.5	32	29	14	51	9.3	63	33	.10	13	.00
15	3.5	1.8	28	51	36	48	6.4	59	27	.21	9.2	.00
16	2.7	17	28	65	59	43	6.1	50	23	.85	7.7	7.7
17	2.4	9.4	32	61	53	40	12	98	19	.25	3.3	32
18	1.9	5.8	29	55	50	37	8.1	232	13	.07	7.5	11
19	13	4.2	26	49	46	35	6.5	110	5.1	.01	22	7.2
20	9.7	3.4	24	51	43	34	18	79	2.5	.00	9.9	4.2
21	4.9	2.7	21	44	40	34	46	68	2.1	.00	6.0	3.4
22	4.0	1.9	20	40	36	31	38	63	.63	.00	4.1	2.5
23	3.4	2.0	18	38	33	28	33	59	2.7	.48	3.3	1.8
24	2.3	1.9	16	34	29	23	48	54	4.1	12	4.4	1.6
25	2.0	2.4	15	30	25	19	44	49	3.1	1.6	4.3	.98
26	1.9	2.7	13	27	23	17	36	50	9.4	.84	3.3	1.0
27	1.1	20	12	25	22	15	31	42	27	.50	2.3	.27
28	.63	46	11	93	28	14	26	55	13	.59	1.3	.58
29	.73	22	9.9	87	---	13	21	48	7.3	.37	.49	.30
30	.60	16	9.2	67	---	12	17	40	5.5	.00	.77	.29
31	.45	---	8.7	58	---	10	---	36	---	.00	.67	---
TOTAL	88.48	184.46	785.2	1217.1	964	1122	525.4	1652	792.43	37.52	309.08	76.23
MEAN	2.85	6.15	25.3	39.3	34.4	36.2	17.5	53.3	26.4	1.21	9.97	2.54
MAX	13	46	65	93	59	120	48	232	61	12	64	32
MIN	.18	.50	8.4	6.5	14	10	5.5	15	.63	.00	.00	.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1995, BY WATER YEAR (WY)

	1993	1994	1995	1993	1994	1995	1993	1994	1995	1993	1994	1995
MEAN	5.93	21.0	31.8	41.0	40.0	46.7	33.5	35.0	19.7	4.79	10.3	3.67
MAX	9.01	35.9	38.2	46.7	52.5	52.7	47.5	53.3	29.7	7.58	13.0	5.48
(WY)	1994	1994	1994	1994	1994	1994	1994	1995	1993	1993	1993	1993
MIN	2.85	6.15	25.3	37.2	32.9	36.2	17.5	15.0	3.04	1.21	8.00	2.54
(WY)	1995	1995	1995	1993	1993	1995	1995	1993	1994	1995	1994	1995

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1993 - 1995

ANNUAL TOTAL	8771.92	7753.90		
ANNUAL MEAN	24.0	21.2		24.7
HIGHEST ANNUAL MEAN				28.1
LOWEST ANNUAL MEAN				21.2
HIGHEST DAILY MEAN	127	Jan 28	232	May 18
LOWEST DAILY MEAN	.00	Jun 22	.00	Jul 20
ANNUAL SEVEN-DAY MINIMUM	.20	Jun 19	.00	Sep 5
INSTANTANEOUS PEAK FLOW			393	May 18
INSTANTANEOUS PEAK STAGE			3.91	May 18
10 PERCENT EXCEEDS	58		52	
50 PERCENT EXCEEDS	14		13	
90 PERCENT EXCEEDS	1.1		.37	1.3

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. Datum of gage is 790 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 27 to Jan. 4, Feb. 8-14 and May 17-19. Records good except for periods of estimated daily discharges, which are fair. 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. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	19	80	35	296	130	60	112	262	117	36	26
2	29	23	70	33	235	116	61	277	539	91	38	20
3	40	23	50	31	192	108	60	177	518	79	33	21
4	28	21	85	29	163	102	61	144	352	63	33	19
5	20	14	497	45	139	123	54	180	265	72	21	24
6	9.6	29	243	109	121	203	55	136	242	72	291	25
7	9.4	28	159	814	108	240	52	117	192	72	110	22
8	3.1	31	116	365	98	2260	40	107	160	48	97	22
9	28	28	112	259	88	1370	70	222	197	48	76	18
10	43	54	372	194	80	774	63	329	153	59	595	20
11	21	42	718	179	73	603	54	250	193	44	241	26
12	8.7	30	348	193	69	475	119	195	465	38	135	21
13	52	24	228	174	64	377	95	205	326	38	94	29
14	75	25	172	162	60	304	71	556	239	47	72	35
15	33	23	138	338	212	250	58	524	181	31	61	29
16	21	66	122	545	615	212	54	359	152	51	53	28
17	22	80	208	425	474	181	63	1350	131	53	48	346
18	13	55	169	316	345	156	70	3660	121	46	44	104
19	73	26	142	250	269	137	55	3230	107	37	124	73
20	104	26	122	283	220	128	95	1090	99	37	76	56
21	62	35	107	226	195	150	412	665	91	16	58	54
22	39	30	96	193	163	119	249	497	88	32	93	47
23	31	29	85	171	145	109	182	374	106	61	56	28
24	28	4.7	77	149	133	99	430	298	81	133	41	33
25	29	31	68	130	115	87	270	261	77	74	41	39
26	23	14	60	117	106	80	201	324	149	69	32	26
27	24	101	54	106	100	84	162	204	966	56	31	29
28	20	370	49	768	158	84	136	281	259	67	32	29
29	14	170	45	1200	---	76	115	256	164	42	28	31
30	16	105	41	565	---	70	101	187	125	41	28	20
31	20	---	38	390	---	68	---	158	---	49	28	---
TOTAL	965.8	1556.7	4871	8794	5036	9275	3568	16725	7000	1783	2746	1300
MEAN	31.2	51.9	157	284	180	299	119	540	233	57.5	88.6	43.3
MAX	104	370	718	1200	615	2260	430	3660	966	133	595	346
MIN	3.1	4.7	38	29	60	68	40	107	77	16	21	18
CFSM	.30	.49	1.50	2.70	1.71	2.85	1.13	5.14	2.22	.55	.84	.41
IN.	.34	.55	1.73	3.12	1.78	3.29	1.26	5.93	2.48	.63	.97	.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1995, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	67.6	142	241	233	302	263	187	212	141	87.2	73.3	56.4		
MAX	151	307	673	395	1030	492	366	718	337	240	255	108		
(WY)	1991	1994	1991	1994	1989	1994	1984	1983	1992	1992	1992	1992		
MIN	31.2	51.9	86.5	50.4	114	60.1	60.9	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1982 - 1995

ANNUAL TOTAL	69319.5	63620.5	
ANNUAL MEAN	190	174	167
HIGHEST ANNUAL MEAN			257
LOWEST ANNUAL MEAN			103
HIGHEST DAILY MEAN	2650	Mar 10	7000
LOWEST DAILY MEAN	3.1	Oct 8	3.1
ANNUAL SEVEN-DAY MINIMUM	18	Oct 6	18
INSTANTANEOUS PEAK FLOW			4800
INSTANTANEOUS PEAK STAGE			19.04
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (CFSM)	1.81	1.66	1.59
ANNUAL RUNOFF (INCHES)	24.56	22.54	21.55
10 PERCENT EXCEEDS	483	361	350
50 PERCENT EXCEEDS	80	87	88
90 PERCENT EXCEEDS	26	25	32

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: Dec. 28-Jan. 5, Feb. 9, 13, June 6-13. 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 1994 TO SEPTEMBER 1995

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	42	226	173	1510	398	184	351	567	226	81	56
2	42	43	173	165	1330	360	168	831	1990	200	61	51
3	35	43	142	160	1110	322	169	1060	2240	164	89	47
4	34	45	130	153	899	298	166	719	1290	150	86	44
5	38	43	850	150	719	301	159	576	875	154	84	43
6	41	45	1300	253	583	397	150	564	700	164	415	40
7	34	39	658	1360	493	671	155	459	580	151	599	42
8	29	49	426	1900	441	6380	141	393	460	145	307	44
9	31	48	345	984	408	6710	148	719	410	106	225	42
10	29	54	690	681	374	3730	180	1680	370	103	773	41
11	53	66	2870	547	350	2740	183	1640	350	111	1720	37
12	47	71	2050	556	314	2190	209	1200	3000	87	612	38
13	50	76	1130	587	296	1700	305	1170	1780	80	355	43
14	55	67	748	557	277	1330	263	3590	1080	73	250	41
15	98	59	555	897	556	1070	221	3350	684	78	197	48
16	79	83	461	2510	3020	862	188	2030	460	64	164	56
17	66	115	587	2520	2600	695	178	2800	355	95	139	176
18	64	159	700	1650	1740	577	181	11100	283	129	121	359
19	81	112	604	1120	1310	490	200	12700	252	101	104	225
20	95	88	501	967	1050	441	195	6140	209	80	223	153
21	140	80	432	977	848	430	853	2970	179	68	166	110
22	113	72	381	771	687	417	1630	1950	155	57	130	97
23	82	63	340	626	576	354	877	1380	135	56	147	82
24	71	57	311	517	503	312	1240	994	130	94	115	60
25	69	56	283	422	442	277	1540	733	134	162	90	58
26	63	45	258	358	393	246	1010	692	130	121	86	61
27	57	66	236	315	358	233	707	622	1100	109	74	50
28	51	203	215	1870	349	233	538	517	757	107	66	48
29	48	609	201	6030	---	224	437	916	393	104	67	49
30	44	367	188	3340	---	211	369	666	277	71	61	48
31	39	---	180	2060	---	196	---	422	---	68	58	---
TOTAL	1821	2965	18171	35176	23536	34795	12944	64934	21325	3478	7665	2289
MEAN	58.7	98.8	586	1135	841	1122	431	2095	711	112	247	76.3
MAX	140	609	2870	6030	3020	6710	1630	12700	3000	226	1720	359
MIN	29	39	130	150	277	196	141	351	130	56	58	37
CFSM	.12	.21	1.24	2.40	1.78	2.37	.91	4.43	1.50	.24	.52	.16
IN.	.14	.23	1.43	2.77	1.85	2.74	1.02	5.11	1.68	.27	.60	.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1995, BY WATER YEAR (WY)

MEAN	128	325	867	1121	1304	1381	926	640	368	237	178	151
MAX	1012	1379	3138	4630	4438	4309	3332	3747	1472	1171	963	2101
(WY)	1976	1943	1979	1950	1989	1964	1948	1983	1974	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1916 - 1995	
ANNUAL TOTAL	300777		229099			
ANNUAL MEAN	824		628		633	
HIGHEST ANNUAL MEAN					1091	
LOWEST ANNUAL MEAN					126	
HIGHEST DAILY MEAN	10200	Jan 28	12700	May 19	25000	Feb 16 1989
LOWEST DAILY MEAN	29	Oct 8	29	Oct 8	.00	Jan 7 1940
ANNUAL SEVEN-DAY MINIMUM	34	Oct 4	34	Oct 4	.00	Jan 7 1940
INSTANTANEOUS PEAK FLOW			13300		28700	
INSTANTANEOUS PEAK STAGE			12.75		15.26	
ANNUAL RUNOFF (CFSM)	1.74		1.33		1.34	
ANNUAL RUNOFF (INCHES)	23.66		18.02		18.17	
10 PERCENT EXCEEDS	2330		1580		1590	
50 PERCENT EXCEEDS	196		226		201	
90 PERCENT EXCEEDS	45		48		32	

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.

WATER-DISCHARGE RECORDS

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.--No estimated daily discharges: Water-discharge records good. 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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	361	594	4610	1090	11300	7000	3280	6540	7670	3030	844	647
2	295	1020	3410	1050	10400	8160	2830	13400	17100	2890	1000	553
3	307	1460	2570	899	8940	8110	2610	18100	11800	2900	830	375
4	307	1770	2300	1160	7450	6880	2420	16400	8950	2490	872	244
5	227	1960	5730	1330	6730	6400	2170	12900	7330	2930	1120	215
6	175	1350	7830	1290	6810	6950	2090	10800	6200	2700	2920	439
7	238	760	6120	10900	7470	13400	1920	9040	4860	2140	2600	440
8	256	724	5350	24200	7300	40400	1790	7620	4150	2090	6590	205
9	192	708	4480	24100	6670	48800	2030	10600	3780	2020	2140	164
10	218	638	5640	17400	5740	42000	1810	16100	4190	1760	1610	149
11	215	625	15900	12000	4860	39800	1860	17300	3800	1560	3950	154
12	228	580	17600	9890	4540	30400	2540	13600	7090	1360	3310	162
13	286	571	13100	8880	4320	25900	2560	18200	8530	1160	2440	157
14	367	568	9450	8320	3890	23800	3270	38300	11900	1250	1960	174
15	1380	547	7210	13400	7240	20300	3730	46600	11000	1450	1800	243
16	1710	675	6100	30500	24300	16900	3440	51400	7990	1620	1780	407
17	1210	820	6310	40000	39900	13500	3080	53800	5800	1260	1660	516
18	778	761	4720	43400	42900	10600	3100	70400	4260	1300	1570	644
19	1140	757	4130	34200	36100	8860	4760	81800	3570	1170	1570	732
20	950	663	4050	19900	23200	7850	4480	84900	3510	1230	1450	765
21	870	661	3850	18300	17700	7210	9410	78100	3260	1330	1270	788
22	1310	585	2870	17500	14500	7040	12400	67600	3370	1130	885	812
23	1810	572	2400	13800	12300	6380	13200	48800	3350	888	996	733
24	1220	540	2160	11200	10700	6200	18600	22600	3000	900	901	562
25	810	517	1930	9000	9150	6300	28100	17100	3180	1020	574	455
26	740	516	1470	7560	7720	5850	28200	13700	3220	997	475	382
27	1040	582	1660	6550	6610	5440	18500	12000	4870	1120	436	356
28	910	1690	1510	12300	6300	4950	13100	11400	4710	1120	389	355
29	871	5280	1320	22700	---	4490	10600	9860	3940	875	483	392
30	813	5870	1300	17400	---	4340	7900	8780	3180	813	672	437
31	624	---	1140	13400	---	3610	---	8080	---	737	595	---
TOTAL	21858	34364	158220	453619	355040	447820	215780	895820	179560	49240	49692	12657
MEAN	705	1145	5104	14630	12680	14450	7193	28900	5985	1588	1603	422
MAX	1810	5870	17600	43400	42900	48800	28200	84900	17100	3030	6590	812
MIN	175	516	1140	899	3890	3610	1790	6540	3000	737	389	149

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1995, BY WATER YEAR (WY)

MEAN	2399	5066	11380	13290	15340	18730	14220	10170	4898	2586	2456	2229
MAX	14120	13960	39510	37850	40170	40410	41540	34340	16050	7268	8589	14740
(WY)	1990	1987	1979	1974	1989	1975	1972	1983	1989	1992	1992	1979
MIN	450	603	668	770	4073	4423	2074	1518	508	654	445	385
(WY)	1970	1988	1966	1981	1968	1983	1986	1976	1988	1970	1986	1984

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1961 - 1995	
	ANNUAL TOTAL	4318400		2873670		8533
ANNUAL MEAN	11830		7873		14030	1979
HIGHEST ANNUAL MEAN					3891	1988
LOWEST ANNUAL MEAN					121000	Dec 11 1978
HIGHEST DAILY MEAN	90100	Mar 11	84900	May 20	131	Oct 4 1981
LOWEST DAILY MEAN	175	Oct 6	149	Sep 10	166	Sep 8 1995
ANNUAL SEVEN-DAY MINIMUM	217	Oct 5	166	Sep 8	123000	Jan 26 1937
INSTANTANEOUS PEAK FLOW			85700	May 20	56.85	Jan 24 1937
INSTANTANEOUS PEAK STAGE			41.50	May 20		
10 PERCENT EXCEEDS	38900		18400		21700	
50 PERCENT EXCEEDS	2540		3180		3820	
90 PERCENT EXCEEDS	577		467		644	

KENTUCKY RIVER BASIN

03290500 KENTUCKY RIVER AT LOCK 2, AT LOCKPORT, KY--Continued

(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to June 1995 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1973 to September 1991.

WATER TEMPERATURES: January 1973 to September 1991.

REMARKS.--Flow regulated by Buckhorn Lake, Herrington Lake, and hydroelectric plant at lock 7.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 660 microsiemens, Oct. 31, 1986; minimum daily, 100 microsiemens, Sept. 23, 1973.

WATER TEMPERATURES: Maximum daily, 33.0°C, Aug. 10, 11, 1980, July 29, 1988; minimum daily, 0.0°C, on several days during winters.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM FLOW INSTANTANEOUS (FT ³ /S)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CaCO ₃)	CALCIUM DIS-SOLVED (MG/L AS Ca)	
NOV													
22...	1100	554	L 425	7.7	11.5	4.5	8.1	74	5	4	170	46	
DEC													
14...	1035	13000	L 429	7.9	8.0	40	9.6	81	400	990	180	52	
FEB													
21...	1240	17500	228	7.3	6.0	98	12.9	104	600	2800	96	27	
APR													
04...	1115	2310	L 284	8.0	12.0	2.4	10.2	96	8	22	120	33	
JUN													
06...	1030	6510	L 317	7.8	20.5	18	8.3	94	470	300	150	47	
DATE		MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTASSIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO ₃)	ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CaCO ₃)	ALKALINITY WAT DIS TOT FET FIELD (MG/L AS CaCO ₃)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO ₄)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO ₂)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)
NOV													
22...	14	15	4.2	108	88	88	14	85	0.30	0.70	248	<0.010	
DEC													
14...	13	12	1.4	136	111	111	10	74	0.20	4.6	262	0.010	
FEB													
21...	6.9	5.2	2.5	59	48	47	7.7	33	0.10	5.4	139	<0.010	
APR													
04...	9.7	6.3	1.8	78	64	64	6.9	51	0.10	5.1	161	<0.010	
JUN													
06...	7.4	4.9	2.2	--	--	--	5.8	35	0.20	5.7	190	0.020	

KENTUCKY RIVER BASIN

03290500 KENTUCKY RIVER AT LOCK 2, AT LOCKPORT, KY--Continued

(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHOS- PHORUS TOTAL (MG/L AS P)	PHORUS PHORUS DIS- SOLVED (MG/L AS P)	ALUM- ORTHO, DIS- SOLVED (MG/L AS P)	INUM, DIS- SOLVED (UG/L AS AL)	BARIIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)
NOV										
22...	1.40	0.03	0.2	0.10	0.10	0.08	<10	33	<3	6
DEC										
14...	1.30	0.05	0.4	0.23	0.11	0.12	50	30	<3	19
FEB										
21...	0.73	0.02	0.3	0.06	0.04	0.02	--	--	--	--
APR										
04...	0.55	0.06	<0.2	0.05	<0.01	0.03	10	24	<3	6
JUN										
06...	1.20	0.05	0.3	0.19	0.11	0.11	20	23	<3	19

DATE	LITHIUM DIS- SOLVED (UG/L AS LD)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	SEDI- MENT, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV											
22...	<4	15	<10	4	<1	<1.0	220	<6	12	19	74
DEC											
14...	<4	3	<10	<1	<1	<1.0	220	<6	87	3040	93
FEB											
21...	--	--	--	--	--	--	--	--	191	9020	96
APR											
04...	<4	8	<10	<1	<1	<1.0	140	<6	10	65	77
JUN											
06...	<4	4	<10	2	<2	<1.0	120	<6	34	600	91

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 Tennile 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. 30 to Jan. 6, Feb. 9-11. Records good, except for periods of estimated record, which are fair. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.71	4.1	126	24	344	219	74	145	497	60	15	1.0
2	.61	4.3	83	21	817	161	69	1960	4140	38	21	.84
3	.58	4.0	60	19	864	130	64	1070	3060	34	31	.58
4	.51	2.8	44	17	560	116	58	478	802	22	39	.47
5	.42	3.0	705	15	371	134	58	302	463	18	136	.45
6	.39	4.7	1230	13	221	658	54	241	318	18	2150	.52
7	.34	12	372	236	171	1230	49	211	239	19	1360	.62
8	.41	9.9	171	494	147	10400	48	170	281	20	366	.64
9	.58	12	350	322	120	3350	1280	1090	664	22	194	.76
10	.61	17	1360	175	108	1140	585	2460	328	17	126	1.2
11	.56	43	3040	226	92	905	301	738	433	12	1210	2.2
12	.55	29	824	846	82	704	468	445	1540	9.5	309	9.0
13	.77	20	323	544	78	519	919	399	1470	7.4	144	8.6
14	.88	13	176	319	68	385	444	4240	448	6.2	77	6.5
15	.75	10	121	899	1720	302	238	3790	249	6.0	44	5.6
16	.72	11	114	1530	7490	251	171	641	171	5.6	28	7.0
17	.71	11	845	885	1700	215	240	1540	139	7.5	18	7.4
18	.76	13	637	420	642	183	436	6470	112	6.7	13	6.0
19	1.3	21	320	260	434	161	200	8590	95	3.2	11	4.7
20	1.9	20	176	503	340	148	158	1410	81	1.9	9.2	4.2
21	2.3	18	123	592	296	146	2180	633	68	3.6	7.3	4.2
22	2.6	27	99	407	248	136	2240	437	60	3.4	5.5	4.7
23	2.7	21	83	257	212	127	576	313	53	21	5.1	4.4
24	3.2	17	73	187	197	124	834	243	82	45	5.0	3.5
25	3.2	13	65	138	171	102	896	15300	57	36	4.5	2.7
26	2.9	11	57	119	154	90	478	3770	35	33	4.0	2.0
27	2.8	10	49	102	141	86	316	680	28	33	3.4	1.5
28	3.3	20	44	835	171	87	239	2040	128	39	3.4	1.3
29	3.4	287	38	3430	---	84	190	1370	152	32	2.8	1.7
30	3.6	270	31	845	---	80	162	601	91	22	2.1	2.1
31	4.2	---	27	447	---	80	---	370	---	17	1.5	---
TOTAL	48.26	958.8	11766	15127	17959	22453	14025	62147	16284	619.0	6345.8	96.38
MEAN	1.56	32.0	380	488	641	724	467	2005	543	20.0	205	3.21
MAX	4.2	287	3040	3430	7490	10400	2240	15300	4140	60	2150	9.0
MIN	.34	2.8	27	13	68	80	48	145	28	1.9	1.5	.45
CFSM	.00	.07	.87	1.12	1.47	1.66	1.07	4.59	1.24	.05	.47	.01
IN.	.00	.08	1.00	1.29	1.53	1.91	1.19	5.29	1.39	.05	.54	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1995, BY WATER YEAR (WY)

MEAN	108	352	641	946	1107	1297	930	624	411	243	129	109
MAX	1005	1641	1874	3170	3295	5197	2909	2411	1428	1016	755	1355
(WY)	1976	1973	1952	1950	1956	1964	1948	1961	1928	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1916 - 1995	
ANNUAL TOTAL	234085.12		167829.24			
ANNUAL MEAN	641		460		570	
HIGHEST ANNUAL MEAN					1059	
LOWEST ANNUAL MEAN					117	
HIGHEST DAILY MEAN	16200	Jan 28	15300	May 25	39300	Mar 10 1964
LOWEST DAILY MEAN	.34	Oct 7	.34	Oct 7	.00	Jul 15 1930
ANNUAL SEVEN-DAY MINIMUM	.46	Oct 3	.46	Oct 3	.00	Jul 15 1930
INSTANTANEOUS PEAK FLOW			31500	May 25	58200	Mar 10 1964
INSTANTANEOUS PEAK STAGE			21.12	May 25	26.05	Mar 10 1964
ANNUAL RUNOFF (CFSM)	1.47		1.05		1.30	
ANNUAL RUNOFF (INCHES)	19.93		14.29		17.73	
10 PERCENT EXCEEDS	1310		979		1280	
50 PERCENT EXCEEDS	83		86		96	
90 PERCENT EXCEEDS	1.8		2.1		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.

REMARKS.--Samples were collected monthly.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT					
06...	0820	615	7.0	14.0	5.0
NOV					
03...	0840	676	6.8	11.0	7.2
DEC					
08...	0825	546	7.7	9.5	8.9
JAN					
12...	0815	483	7.4	7.0	11.2
FEB					
08...	1125	389	6.6	0.0	14.5
MAR					
09...	0825	304	6.2	5.0	12.6
APR					
06...	0840	401	7.0	9.5	11.1
MAY					
04...	1025	505	6.6	18.0	8.4
JUN					
29...	0840	457	6.8	23.5	4.5
SEP					
14...	0930	639	7.6	21.0	5.2

GOOSE CREEK BASIN

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

WATER-QUALITY RECORDS

LOCATION.--Lat 38°16'33", long 85°36'22", Jefferson County, Hydrologic Unit 05140101, at bridge on Old Westport Road and at mile 5.5.

DRAINAGE AREA.--6.0 mi².

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

REMARKS.--Samples were collected monthly.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT						
06...	1105	0.60	618	7.2	15.5	5.7
NOV						
10...	0815	2.9	488	6.9	10.0	7.9
DEC						
08...	1215	3.6	610	8.0	8.0	12.3
JAN						
12...	1155	12	542	7.9	12.0	11.5
FEB						
07...	1035	3.6	318	6.6	1.5	13.2
MAR						
09...	1115	20	387	6.5	7.5	13.5
APR						
06...	1220	2.0	559	6.5	10.5	13.2
MAY						
03...	0845	5.9	543	7.0	11.0	11.3
JUN						
28...	0840	1.5	558	7.3	22.0	5.8
SEP						
14...	1245	0.70	678	7.1	23.5	5.4

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.

REMARKS.--Samples were collected monthly.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT						
06...	1015	0.84	600	7.8	11.5	9.4
NOV						
03...	1110	1.4	608	7.2	11.5	11.5
DEC						
08...	1035	8.4	609	7.8	8.0	11.5
JAN						
12...	1035	20	554	7.8	11.0	11.2
FEB						
08...	0840	4.5	347	6.9	0.0	14.3
MAR						
09...	1020	40	349	6.5	6.0	13.3
APR						
06...	1040	2.9	430	6.9	8.5	13.1
MAY						
04...	0835	--	566	6.6	13.0	9.3
JUN						
29...	1055	4.0	533	7.0	21.5	9.3
SEP						
14...	1125	0.64	851	7.9	20.5	7.8

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.

REMARKS.--Samples were collected monthly.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT						
06...	0925	0.79	605	8.0	12.0	5.5
NOV						
03...	1000	1.3	600	7.5	11.0	10.7
DEC						
08...	0940	5.7	616	8.0	7.5	10.8
JAN						
12...	0930	15	593	7.7	11.0	10.7
FEB						
08...	0950	2.3	556	6.7	0.5	15.5
MAR						
09...	0920	--	380	6.6	5.5	12.8
APR						
06...	0935	1.7	401	6.8	7.0	12.4
MAY						
04...	0915	--	601	6.6	13.0	10.1
JUN						
29...	0940	2.7	566	6.8	21.5	7.8
SEP						
14...	1020	--	632	8.0	20.5	7.4

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.--Estimated daily discharges: Oct. 2-7, Oct. 23 to Nov. 3. Water-discharge records good except for estimated daily discharges, which are fair. 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 1994 TO SEPTEMBER 1995--DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	5.2	4.5	3.1	13	5.3	2.8	23	17	5.4	37	3.6
2	1.6	6.8	3.6	2.9	11	5.0	3.3	30	34	3.3	7.6	3.0
3	1.5	8.0	3.1	2.9	9.8	4.6	2.9	14	18	2.8	4.2	2.9
4	1.2	12	87	2.7	9.4	4.9	3.6	9.3	9.9	9.7	3.2	2.7
5	1.0	18	32	2.2	8.1	30	4.6	8.2	8.5	151	133	2.8
6	.90	9.2	15	4.6	7.0	14	4.9	6.7	7.9	19	40	2.6
7	.82	2.4	9.8	22	6.8	27	3.2	5.9	7.5	9.2	161	2.9
8	5.8	2.4	5.4	11	6.1	69	1.5	5.2	6.5	6.4	132	2.7
9	16	23	44	6.9	5.5	37	2.2	96	5.9	4.8	128	2.8
10	2.9	18	44	5.9	5.9	23	3.0	23	5.5	4.0	36	2.7
11	2.8	5.3	30	36	6.0	17	3.3	10	15	3.8	14	4.0
12	3.0	2.7	17	19	4.5	14	26	7.5	21	3.8	10	5.0
13	6.3	2.1	11	14	5.4	12	6.0	65	7.2	3.3	8.2	5.4
14	2.9	2.1	7.3	105	4.7	11	4.2	131	5.7	4.2	7.9	6.4
15	1.8	9.5	6.0	58	103	9.4	3.5	38	4.8	4.1	7.3	6.2
16	2.6	52	43	29	59	8.8	3.3	29	4.9	6.7	9.8	41
17	2.3	11	23	16	32	7.8	6.4	471	4.6	5.5	6.0	15
18	4.0	6.2	14	13	22	6.8	3.1	679	4.5	4.1	4.8	3.8
19	83	3.9	8.7	17	16	6.3	2.7	260	4.0	4.4	4.3	3.2
20	8.0	3.3	8.1	13	14	11	16	87	3.9	3.8	4.9	12
21	4.3	10	6.5	10	11	9.1	79	57	4.3	3.3	6.7	4.3
22	3.4	4.5	6.2	8.9	9.6	6.4	14	37	5.0	37	3.6	2.8
23	2.5	3.0	5.4	8.2	9.8	5.7	14	24	3.6	61	3.9	2.1
24	2.0	2.7	4.9	7.5	8.0	4.9	20	19	3.3	30	3.6	1.9
25	1.7	6.1	4.3	6.9	7.0	4.6	13	30	3.6	8.2	3.2	2.2
26	1.5	3.4	3.8	6.6	7.0	4.1	11	16	5.8	5.9	2.1	2.4
27	1.4	51	3.5	7.2	6.7	6.4	7.8	53	3.3	6.9	2.5	2.7
28	2.0	32	3.5	64	6.7	3.8	6.4	66	5.0	5.4	2.8	2.7
29	2.5	11	3.4	41	---	3.2	5.5	21	15	3.7	3.1	3.4
30	3.0	7.1	3.1	20	---	2.8	5.7	15	5.8	3.1	3.2	4.4
31	4.0	---	3.1	15	---	3.0	---	11	---	3.0	3.7	---
TOTAL	178.52	333.9	464.2	620.9	415.0	377.9	282.9	2347.8	251.0	426.8	797.6	159.6
MEAN	5.76	11.1	15.0	20.0	14.8	12.2	9.43	75.7	8.37	13.8	25.7	5.32
MAX	83	52	87	105	103	69	79	679	34	151	161	41
MIN	.82	2.1	3.1	2.2	4.5	2.8	1.5	5.2	3.3	2.8	2.1	1.9
CFSM	.33	.65	.87	1.16	.86	.71	.55	4.40	.49	.80	1.50	.31
IN.	.39	.72	1.00	1.34	.90	.82	.61	5.08	.54	.92	1.73	.35

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

MEAN	6.98	13.7	22.7	30.8	40.6	41.4	32.3	27.1	17.4	15.6	10.2	7.14
MAX	46.7	53.9	73.6	125	107	126	95.2	103	78.3	126	54.7	86.3
(WY)	1978	1974	1979	1950	1989	1945	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	5902.82		6656.12			
ANNUAL MEAN	16.2		18.2		22.3	
HIGHEST ANNUAL MEAN					41.0	
LOWEST ANNUAL MEAN					9.35	
HIGHEST DAILY MEAN	251	Jan 28	679	May 18	1760	Jul 22 1973
LOWEST DAILY MEAN	.82	Oct 7	.82	Oct 7	.00	Sep 4 1940
ANNUAL SEVEN-DAY MINIMUM	1.3	Oct 1	1.3	Oct 1	.00	Sep 4 1940
INSTANTANEOUS PEAK FLOW			1320	May 17	4940	Mar 9 1964
INSTANTANEOUS PEAK STAGE			12.00	May 17	17.17	Mar 9 1964
INSTANTANEOUS LOW FLOW					.00	Sep 4 1940
ANNUAL RUNOFF (CFSM)	.94		1.06		1.29	
ANNUAL RUNOFF (INCHES)	12.77		14.40		17.59	
10 PERCENT EXCEEDS	38		37		48	
50 PERCENT EXCEEDS	6.3		6.2		7.1	
90 PERCENT EXCEEDS	1.5		2.7		.80	

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.

REMARKS.--Water-quality samples collected monthly.

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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT						
11...	0800	1.9	376	6.8	13.5	7.2
NOV						
07...	0810	2.3	414	6.6	13.5	7.0
DEC						
12...	0855	18	461	6.8	6.0	10.6
JAN						
10...	1010	5.2	762	7.2	4.0	12.5
FEB						
06...	0840	6.7	418	6.6	2.5	13.0
MAR						
13...	0830	13	612	5.7	11.0	9.5
APR						
10...	0850	2.3	505	7.1	13.0	9.8
MAY						
09...	0825	184	381	6.4	20.0	7.0
JUL						
13...	1130	3.7	560	7.6	27.5	6.4
20...	1240	--	877	7.7	25.5	7.0
27...	0830	4.3	860	7.6	25.5	5.0
Aug						
02...	1255	--	777	7.4	26.5	5.8
10...	0915	44	465	7.5	22.0	7.2
14...	1140	--	795	7.6	26.5	5.1
18...	1030	--	752	7.5	27.5	5.6
24...	0930	2.7	1280	7.7	23.0	5.1
31...	1020	--	1250	7.8	27.5	6.6
SEP						
07...	0830	2.3	1170	7.7	23.0	4.2
15...	1020	--	970	7.6	21.5	5.0
21...	1120	4.0	467	7.2	21.0	5.9
28...	1030	--	999	7.6	18.0	6.5

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.

REMARKS.--Samples were collected monthly.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT						
05...	0810	2.6	537	6.5	14.0	7.2
NOV						
08...	0810	2.2	512	6.2	12.0	6.8
DEC						
07...	0828	14	586	7.2	13.0	12.3
JAN						
11...	1030	45	763	7.1	6.5	11.2
FEB						
13...	0825	6.0	1190	6.7	1.0	14.0
MAR						
08...	0810	120	386	6.3	6.0	12.3
APR						
05...	0820	4.1	516	6.6	9.5	8.5
MAY						
11...	0815	16	562	7.1	17.0	6.8
JUL						
13...	0935	3.5	914	7.4	25.0	7.1
20...	1040	--	848	7.4	24.5	7.8
27...	1200	5.1	647	7.6	25.5	8.8
Aug						
02...	1200	--	341	7.2	27.5	5.6
10...	1230	44.1	448	7.6	24.5	8.5
14...	1015	--	725	7.6	26.0	6.4
18...	1215	--	840	7.7	28.5	8.9
24...	1230	3.0	549	7.8	25.5	11.4
31...	1230	--	753	8.2	27.0	13.8
SEP						
07...	1045	2.6	737	7.7	21.5	8.3
15...	0910	--	817	7.4	20.5	6.8
21...	0955	4.7	513	7.3	19.5	6.2
28...	0930	--	639	7.6	15.0	7.5

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.--No estimated daily discharges. Water-discharge records are good.

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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	3.4	6.3	4.4	18	8.4	3.7	45	18	7.0	4.5	1.2
2	.99	4.6	5.4	4.4	15	7.9	3.6	49	30	3.5	2.9	1.1
3	.99	5.0	4.6	4.0	13	7.6	3.5	21	27	2.9	2.0	1.0
4	.96	5.3	7.7	3.9	12	7.0	3.8	15	13	23	1.7	1.0
5	.55	7.6	41	3.6	10	31	3.6	14	11	133	110	.98
6	.52	6.5	18	4.5	8.9	21	3.1	10	9.5	20	4.5	.86
7	.48	2.4	13	2.6	8.2	39	2.9	8.5	7.7	21	132	.78
8	.85	2.6	8.8	13	7.8	132	3.1	7.2	6.8	9.6	175	.98
9	8.3	15	49	9.9	7.4	52	3.1	86	7.3	6.8	77	1.0
10	2.5	19	91	8.7	7.5	39	3.2	29	5.5	5.2	26	1.0
11	1.5	6.2	43	4.3	7.7	30	3.3	17	13	4.4	16	1.0
12	1.4	4.4	26	3.0	7.3	24	2.9	13	21	3.3	11	1.1
13	6.1	3.6	19	2.0	6.0	18	8.4	48	8.3	2.5	8.3	3.0
14	3.9	3.2	15	9.7	5.6	15	5.7	90	6.7	1.8	6.1	2.3
15	2.4	5.3	12	6.9	162	13	5.1	33	5.9	1.5	4.9	1.7
16	2.0	4.3	5.3	3.6	11.3	11	4.4	31	4.8	2.2	2.3	3.5
17	1.7	1.1	3.6	2.5	4.8	9.6	6.7	4.8	4.3	2.2	9.5	1.5
18	2.4	7.2	2.1	1.9	3.3	8.7	5.7	5.9	3.9	1.2	5.2	4.7
19	6.7	5.2	1.5	2.0	2.5	8.2	4.6	2.4	3.0	1.2	3.9	2.7
20	1.1	4.2	1.2	1.7	2.0	1.0	1.6	9.2	3.2	1.2	6.2	1.2
21	6.1	1.1	1.1	1.4	1.7	1.0	7.1	6.1	3.4	.99	6.3	5.4
22	4.4	5.4	8.9	1.2	1.4	7.7	1.7	4.2	6.2	3.7	2.9	3.0
23	3.7	4.4	8.1	1.1	1.3	7.1	3.5	2.9	4.4	5.4	1.9	2.1
24	2.9	3.7	7.2	9.5	1.2	6.2	3.7	2.1	5.1	3.3	1.6	1.5
25	2.3	5.2	6.7	8.4	1.0	5.3	1.8	3.8	3.9	1.0	1.4	1.2
26	2.3	5.2	6.0	7.7	1.0	4.9	1.2	1.8	3.5	6.7	1.3	1.0
27	1.5	4.1	5.1	7.8	9.6	6.5	9.8	3.4	2.8	2.7	1.1	1.0
28	1.8	3.6	5.0	1.2	9.5	5.5	8.1	6.3	1.2	8.0	1.1	.73
29	2.3	1.2	4.8	5.0	---	4.8	7.1	2.5	1.7	4.8	1.0	.68
30	2.5	8.1	4.6	3.1	---	4.5	6.8	1.9	9.4	3.4	1.3	.68
31	2.7	---	4.4	2.3	---	3.9	---	1.4	---	2.4	1.4	---
TOTAL	149.14	296.7	637.9	800.3	630.5	558.8	344.3	2295.7	277.6	440.79	691.5	105.69
MEAN	4.81	9.89	20.6	25.8	22.5	18.0	11.5	74.1	9.25	14.2	22.3	3.52
MAX	.67	.43	.91	1.27	1.62	1.32	.71	5.95	.30	1.33	1.75	.35
MIN	.48	2.4	4.4	3.6	5.6	3.9	2.9	7.2	2.8	.99	1.0	.68
CFSM	.25	.52	1.09	1.37	1.19	.95	.61	3.92	.49	.75	1.18	.19
IN.	.29	.58	1.26	1.58	1.24	1.10	.68	4.52	.55	.87	1.36	.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1995, BY WATER YEAR (WY)

MEAN	8.18	16.6	26.8	33.2	43.5	49.2	38.6	29.6	18.9	16.6	11.2	9.18
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1944 - 1995

ANNUAL TOTAL	6425.61	7228.92	
ANNUAL MEAN	17.6	19.8	25.1
HIGHEST ANNUAL MEAN			49.2
LOWEST ANNUAL MEAN			3.76
HIGHEST DAILY MEAN	247	Jan 28	595
LOWEST DAILY MEAN	.46	Aug 28	May 18
ANNUAL SEVEN-DAY MINIMUM	.76	Oct 2	Oct 7
INSTANTANEOUS PEAK FLOW			.76
INSTANTANEOUS PEAK STAGE			Oct 2
INSTANTANEOUS LOW FLOW			May 17
ANNUAL RUNOFF (CFSM)	.93		6.13
ANNUAL RUNOFF (INCHES)	12.65		May 17
10 PERCENT EXCEEDS	43		.48
50 PERCENT EXCEEDS	8.1		Oct 7
90 PERCENT EXCEEDS	1.4		.00
			8.30
			Apr 2
			Apr 2
			18.01
			53
			9.9
			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.

REMARKS.--Water-quality samples collected monthly.

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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT						
11...	1005	1.4	553	6.9	12.0	7.9
NOV						
07...	1015	2.2	467	6.7	13.5	10.0
DEC						
12...	1115	26	613	7.4	8.0	12.1
JAN						
10...	1210	8.8	741	7.9	7.0	14.2
FEB						
06...	1050	8.5	594	6.7	4.0	14.5
MAR						
13...	1020	18	510	6.8	12.0	15.2
APR						
10...	1115	3.0	488	6.7	16.0	10.9
MAY						
09...	1010	200	234	6.5	19.0	8.5
JUL						
10...	1030	5.3	583	6.9	26.0	8.9
SEP						
18...	0945	5.0	477	7.3	17.5	7.6

BEARGRASS CREEK BASIN

03293200 MIDDLE FORK BEARGRASS CREEK AT BEALS BRANCH ROAD AT LOUISVILLE, KY

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.

REMARKS.--Samples were collected monthly.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT						
05...	0850	1.1	598	7.2	14.0	4.5
NOV						
08...	0945	1.9	475	6.5	11.5	5.5
DEC						
07...	0945	18	618	7.5	13.5	--
JAN						
11...	0930	14	475	6.9	8.5	9.5
FEB						
13...	1010	6.5	713	6.1	0.5	15.5
MAR						
08...	0940	3.3	358	6.2	5.5	12.8
APR						
05...	0935	139	580	6.3	9.5	7.4
MAY						
11...	0935	19	575	7.0	15.5	8.1
JUL						
10...	0825	5.6	536	6.9	23.0	4.6
SEP						
18...	0820	6.2	378	7.3	18.5	5.7

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.

REMARKS.--Samples were collected monthly.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT						
05...	1045	0.64	663	7.2	14.0	9.2
NOV						
08...	1110	1.6	606	6.5	12.5	11.0
Dec						
07...	1115	6.6	798	7.6	13.0	9.3
JAN						
11...	0808	5.4	775	7.4	7.5	10.8
FEB						
13...	1140	2.9	781	6.3	4.5	14.4
MAR						
08...	1100	37	433	6.4	6.5	12.5
APR						
05...	1050	1.1	576	7.5	7.0	11.5
MAY						
11...	1045	7.9	722	7.1	14.5	9.0
JUL						
13...	0815	0.75	630	7.5	23.5	6.2
SEP						
21...	0810	1.8	631	7.3	17.5	6.7

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: June 23 to July 7. Records fair except for estimated periods and those below 20,000 ft³/s, which are poor. Flow

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27800	15700	84400	33400	127000	126000	50400	75200	122000	123000	13000	16000
2	29100	34600	76900	27600	112000	157000	48400	79800	117000	118000	15800	13300
3	35700	56100	58800	29800	107000	187000	35600	131000	130000	115000	31000	10900
4	34000	46900	51300	38000	112000	194000	33500	181000	129000	96400	17300	10800
5	32200	37200	71600	38000	110000	185000	37600	193000	130000	68100	9700	13500
6	29600	31600	73200	37300	126000	160000	40900	169000	142000	63200	103000	14000
7	20300	45500	106000	45500	128000	147000	50600	141000	129000	46700	150000	11400
8	18700	33800	112000	104000	92600	214000	51700	132000	98900	39600	141000	16800
9	23000	30800	118000	151000	69800	277000	62700	116000	74700	28400	127000	15500
10	17000	45800	125000	157000	75000	294000	52100	128000	78700	28300	111000	6200
11	20500	52300	147000	127000	58700	301000	71900	132000	96500	35200	118000	12600
12	19800	46700	197000	104000	60500	293000	87100	149000	89100	12900	94000	12400
13	18100	39100	215000	109000	56800	279000	102000	170000	136000	14800	90700	12300
14	15000	52000	203000	107000	31200	272000	110000	206000	187000	22900	63700	21700
15	21200	45300	166000	123000	57200	260000	113000	249000	198000	19100	34300	18000
16	20700	48100	132000	193000	141000	236000	113000	308000	160000	24500	36000	13500
17	20300	44300	115000	271000	202000	204000	95000	358000	95600	40300	36800	16700
18	22900	35000	100000	346000	245000	164000	90800	402000	43100	26000	19300	24700
19	22800	30000	91400	369000	282000	130000	80900	442000	51400	34900	13000	11200
20	22100	25400	85100	351000	277000	107000	69900	454000	44900	25700	29100	19800
21	20000	30400	81700	319000	239000	93000	99000	465000	34300	17400	25100	18100
22	18500	33800	71000	297000	195000	91300	139000	465000	44400	21500	30300	17700
23	20100	40900	58200	293000	172000	83100	127000	445000	51400	19500	17400	16500
24	24800	42100	59300	278000	155000	86000	121000	384000	68400	17200	15800	15500
25	21000	45100	54100	249000	146000	92800	152000	334000	81100	24200	16000	19600
26	20900	42600	42400	203000	134000	89300	167000	315000	77200	18900	26000	14900
27	21300	37300	43400	172000	131000	72600	153000	234000	85700	18300	16300	17700
28	24900	40600	38800	159000	126000	63800	123000	179000	85200	39700	7100	17600
29	23000	61500	30700	154000	---	54200	104000	180000	106000	45600	16800	20000
30	20500	87700	39300	161000	---	54900	89300	169000	121000	41700	17200	21200
31	21200	---	40900	155000	---	57600	---	134000	---	23600	16600	---
TOTAL	707000	1258200	2888500	5201600	3768800	5025600	2671400	7520000	3007600	1270600	1458300	470100
MEAN	22810	41940	93180	167800	134600	162100	89050	242600	100300	40990	47040	15670
MAX	35700	87700	215000	369000	282000	301000	167000	465000	198000	123000	150000	24700
MIN	15000	15700	30700	27600	31200	54200	33500	75200	34300	12900	7100	6200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1995, BY WATER YEAR (WY)

MEAN	37230	68620	122900	165900	194100	243200	205800	141100	82420	55520	44100	32960
MAX	153500	245900	321300	595800	430400	524300	403300	330000	234400	163400	151300	166600
(WY)	1980	1986	1973	1937	1939	1945	1948	1983	1981	1958	1958	1979
MIN	4377	6660	14080	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1929 - 1995

ANNUAL TOTAL	51076800	35247700	
ANNUAL MEAN	139900	96570	115800
HIGHEST ANNUAL MEAN			176700
LOWEST ANNUAL MEAN			57390
HIGHEST DAILY MEAN	479000	Mar 14	465000
LOWEST DAILY MEAN	14600	Aug 13	6200
ANNUAL SEVEN-DAY MINIMUM	18900	Oct 8	12500
INSTANTANEOUS PEAK FLOW			1110000
INSTANTANEOUS PEAK STAGE		55.94	May 22
10 PERCENT EXCEEDS	401000	209000	279000
50 PERCENT EXCEEDS	60100	68100	71600
90 PERCENT EXCEEDS	22800	17300	16600

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.

REMARKS.--Water-quality samples collected monthly.

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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT						
04...	1120	0.85	615	8.6	16.5	15.2
NOV						
01...	1120	0.68	639	7.9	11.5	14.2
DEC						
06...	1135	3.4	374	6.7	13.0	7.1
JAN						
09...	1200	1.4	700	6.7	2.0	12.7
FEB						
02...	1205	1.6	609	6.5	5.0	11.0
MAR						
20...	1035	1.3	610	6.9	15.5	14.2
APR						
04...	1150	1.0	627	6.9	13.5	14.5
MAY						
02...	1205	21	258	6.4	13.0	10.3
JUN						
27...	1220	1.0	212	7.5	26.5	9.9
SEP						
12...	1105	0.47	566	9.0	23.0	13.6

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.

REMARKS.--Samples were collected monthly.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT						
04...	0950	11	786	7.6	14.5	8.2
NOV						
01...	1010	1.9	645	7.4	11.0	7.9
DEC						
06...	1000	7.4	212	6.6	12.0	7.9
JAN						
09...	1015	3.6	425	6.7	2.0	12.1
FEB						
02...	1010	3.0	356	6.3	5.0	11.9
MAR						
20...	0930	1.6	524	6.5	14.0	8.7
APR						
04...	1035	2.2	560	6.9	12.5	8.9
MAY						
02...	1050	33	176	6.4	11.5	8.4
JUN						
27...	1050	2.8	658	7.4	23.5	6.3
SEP						
12...	1010	0.96	772	8.0	24.0	6.8

SALT RIVER BASIN

03295400 SALT RIVER AT GLENSBORO, KY

LOCATION.--Lat 38°00'07", long 85°03'38", Anderson County, Hydrologic Unit 05140102, on left bank 5 ft downstream from bridge on Highway 53 at Glensboro, 0.9 mi upstream from Timber Creek, 2.0 mi downstream from Indian Creek, and at mile 82.5.

DRAINAGE AREA.--172 mi².

PERIOD OF RECORD.--May 1989 to current year.

GAGE.--Water-stage recorder. Datum of gage undetermined.

REMARKS.--Estimated daily discharges: Oct. 1-4, 15-19, Nov. 18-21, 26, Dec. 6, 8, 9, 31, Jan. 1-4, 15, Feb. 3-7. Records poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	4.9	75	27	330	105	50	233	414	39	5.3	3.0
2	2.2	4.4	60	25	260	99	45	693	1260	84	4.9	2.4
3	1.9	3.9	40	23	218	83	42	444	1240	122	4.0	1.9
4	1.5	4.2	35	21	196	74	39	263	778	66	3.5	1.5
5	1.1	4.0	20	19	171	75	35	214	467	72	7.3	1.3
6	1.7	4.2	110	255	160	151	33	173	301	66	201	1.2
7	2.8	4.6	206	1800	146	422	31	144	181	40	649	1.2
8	3.3	4.2	40	655	138	6820	30	120	120	28	1870	1.3
9	4.3	4.3	30	402	125	7260	34	534	150	22	507	1.8
10	4.7	6.9	837	274	134	2930	35	940	292	16	285	2.4
11	5.7	15	1680	305	108	1790	30	473	153	13	162	2.8
12	5.4	18	569	509	93	1250	162	319	809	12	89	3.3
13	6.5	15	329	385	85	854	109	575	628	11	57	3.6
14	9.0	21	203	327	81	588	62	3160	339	9.0	37	2.8
15	14	55	145	2000	1010	398	53	1610	175	8.6	26	3.1
16	10	93	122	995	2530	215	42	743	112	8.5	19	6.0
17	8.0	194	399	625	1390	163	42	2870	79	28	15	30
18	6.0	300	299	437	626	139	40	7920	60	21	13	14
19	5.0	420	206	319	439	122	34	3680	54	10	11	8.1
20	31	435	155	287	330	114	72	872	44	6.7	11	36
21	20	350	125	249	247	112	754	502	40	5.5	12	22
22	9.9	259	102	191	192	116	495	346	45	5.1	7.9	13
23	5.7	210	90	155	152	107	408	233	49	6.2	6.6	9.0
24	4.3	187	78	129	145	96	952	167	37	26	5.5	6.1
25	3.2	406	69	111	126	109	573	133	151	24	5.0	4.8
26	2.3	650	60	97	104	82	387	116	248	13	4.6	4.3
27	2.1	600	51	85	91	76	272	186	165	10	4.1	3.9
28	3.0	350	45	2020	102	74	211	266	130	28	3.6	3.9
29	3.6	220	40	1610	---	73	179	431	72	16	3.3	3.6
30	4.2	150	35	582	---	66	158	211	50	9.5	3.1	2.9
31	5.0	---	31	392	---	57	---	110	---	6.5	3.4	---
TOTAL	190.0	4993.6	6286	15311	9729	24620	5409	28681	8643	832.6	4036.1	201.2
MEAN	6.13	166	203	494	347	794	180	925	288	26.9	130	6.71
MAX	31	650	1680	2020	2530	7260	952	7920	1260	122	1870	36
MIN	1.1	3.9	20	19	81	57	30	110	37	5.1	3.1	1.2
CFSM	.04	.97	1.18	2.87	2.02	4.62	1.05	5.38	1.67	.16	.76	.04
IN.	.04	1.08	1.36	3.31	2.10	5.32	1.17	6.20	1.87	.18	.87	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1995, BY WATER YEAR (WY)

MEAN	82.3	171	437	494	483	510	206	322	217	97.1	73.3	40.4
MAX	262	359	1360	675	642	797	409	925	517	221	137	124
(WY)	1991	1994	1991	1994	1991	1994	1994	1995	1992	1992	1992	1989
MIN	6.13	11.4	123	344	169	99.9	105	118	23.6	6.72	7.25	5.84
(WY)	1995	1992	1990	1993	1992	1990	1992	1991	1994	1993	1993	1994

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1989 - 1995

ANNUAL TOTAL	98525.7	108932.5	
ANNUAL MEAN	270	298	258
HIGHEST ANNUAL MEAN			335
LOWEST ANNUAL MEAN			181
HIGHEST DAILY MEAN	6490	Mar 10	7920
LOWEST DAILY MEAN	1.1	Oct 5	1.1
ANNUAL SEVEN-DAY MINIMUM	1.7	Sep 20	1.5
INSTANTANEOUS PEAK FLOW			10700
INSTANTANEOUS PEAK STAGE			10.44
ANNUAL RUNOFF (CFSM)	1.57		1.74
ANNUAL RUNOFF (INCHES)	21.31		23.56
10 PERCENT EXCEEDS	654		627
50 PERCENT EXCEEDS	73		78
90 PERCENT EXCEEDS	4.1		3.9

SALT RIVER BASIN

03295890 BRASHEARS CREEK AT TAYLORSVILLE, KY

LOCATION.--Lat 38°02'13", long 85°20'27", Spencer County, Hydrologic Unit 05140102, on left bank at downstream side of bridge on State Highway 155, at the north edge of Taylorsville, 1.2 mi upstream from Salt River, and at mile 1.2.

DRAINAGE AREA.--259 mi²

PERIOD OF RECORD.--July 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is 466.85 ft above sea level.

REMARKS.--Estimated daily discharges: Oct. 20, 21, Nov. 17, Dec. 4, Jan. 4-11, Jan. 23-27, Feb. 3-14, May 2, 28, June 2, 11, and 12. Records good except those for estimated daily discharges, which are fair. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	1.7	23	38	562	162	50	78	158	34	9.3	2.6
2	.41	1.2	14	35	436	138	47	575	641	29	7.3	2.4
3	.74	.91	8.3	33	330	124	43	461	443	27	5.9	2.0
4	.72	.66	41	28	256	116	40	295	261	30	4.7	2.0
5	.54	.64	143	27	192	124	36	226	174	360	34	2.4
6	.50	1.4	214	26	138	194	35	185	129	660	328	2.7
7	.42	1.7	112	409	124	492	33	145	99	244	239	2.7
8	.34	2.0	64	288	120	4050	32	116	77	141	2770	2.8
9	.60	2.4	53	179	107	2190	33	533	63	93	915	2.7
10	.50	3.4	408	116	87	1470	31	1290	53	64	443	2.8
11	.43	3.4	1070	117	71	1080	42	709	69	48	255	2.6
12	.26	4.0	426	229	64	752	56	436	671	38	162	2.8
13	.34	3.8	224	350	57	526	71	556	428	30	109	2.9
14	.40	7.0	153	334	85	386	83	3400	250	24	78	2.9
15	.45	6.0	114	1300	733	306	59	2010	162	19	58	2.6
16	.47	12	104	1170	3330	253	48	1050	111	15	45	3.7
17	.65	17	398	780	1550	213	42	2740	82	14	36	6.4
18	.72	25	478	545	979	177	39	9040	62	14	29	21
19	4.2	16	269	411	679	152	39	6700	49	11	25	21
20	7.2	11	185	388	519	138	40	1900	41	8.5	19	13
21	31	7.1	142	370	419	137	211	1090	36	6.6	15	8.1
22	10	4.7	116	312	332	130	337	702	86	8.7	13	5.5
23	4.3	3.2	97	256	287	108	178	465	59	11	11	5.4
24	3.1	3.2	83	211	251	93	331	332	40	28	8.5	5.2
25	2.0	2.6	73	174	211	82	333	248	33	44	7.7	4.4
26	1.1	1.9	62	138	189	73	212	254	28	38	7.4	4.0
27	1.6	7.0	55	123	175	68	153	216	35	25	6.5	4.3
28	2.3	20	50	1900	175	67	118	371	35	20	5.5	4.3
29	1.8	89	46	3100	---	66	94	704	37	18	4.6	3.7
30	1.8	41	43	1310	---	59	76	296	35	15	4.1	3.0
31	2.0	---	41	807	---	53	---	194	---	12	3.3	---
TOTAL	80.97	300.91	5309.3	15504	12458	13979	2942	37317	4447	2129.8	5658.8	151.9
MEAN	2.61	10.0	171	500	445	451	98.1	1204	148	68.7	183	5.06
MAX	31	89	1070	3100	3330	4050	337	9040	671	660	2770	21
MIN	.08	.64	8.3	26	57	53	31	78	28	6.6	3.3	2.0
CFSM	.01	.04	.66	1.93	1.72	1.74	.38	4.65	.57	.27	.70	.02
IN.	.01	.04	.76	2.23	1.79	2.01	.42	5.36	.64	.31	.81	.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1995, BY WATER YEAR (WY)

MEAN	37.3	196	461	497	789	568	437	470	209	81.1	55.4	12.6
MAX	240	586	1806	801	1984	838	801	1912	598	219	291	57.1
(WY)	1991	1986	1991	1990	1989	1993	1989	1983	1992	1989	1992	1992
MIN	.012	3.97	116	47.0	212	80.5	48.3	47.1	1.90	4.44	.030	.001
(WY)	1989	1988	1990	1986	1992	1983	1986	1986	1988	1994	1983	1983

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1981 - 1995

ANNUAL TOTAL	104524.18	100278.68	
ANNUAL MEAN	286	275	316
HIGHEST ANNUAL MEAN			454
LOWEST ANNUAL MEAN			201
HIGHEST DAILY MEAN	3320	Feb 23	9040
LOWEST DAILY MEAN	.08	Oct 1	.08
ANNUAL SEVEN-DAY MINIMUM	.41	Oct 10	.41
INSTANTANEOUS PEAK FLOW			11300
INSTANTANEOUS PEAK STAGE			19.55
INSTANTANEOUS LOW FLOW			.08
ANNUAL RUNOFF (CFSM)	1.11		1.06
ANNUAL RUNOFF (INCHES)	15.01		14.40
10 PERCENT EXCEEDS	835		567
50 PERCENT EXCEEDS	33		58
90 PERCENT EXCEEDS	1.3		2.4

SALT RIVER BASIN

03297900 FLOYDS FORK NEAR PEWEE VALLEY, KY

LOCATION.--Lat 38°17'07", long 85°28'03", Oldham County, Hydrologic Unit 05140102, on left bank at downstream side of bridge on State Highway 362, 2 mi south of PeWee Valley, 2.2 mi downstream from Curry's Fork, and at mile 44.3.

DRAINAGE AREA.--79.9 mi². (revised)

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

GAGE.--Water-stage recorder. Datum of gage is 599.892 ft above sea level.

REMARKS.--Estimated daily discharges: Dec. 24 to Jan. 6, 20-27, Feb. 4-14, and Apr. 9-17. Records good except for periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	5.1	8.3	14	76	38	12	28	61	29	.46	1.4
2	2.1	4.9	7.2	14	65	36	12	148	55	14	.41	1.3
3	1.7	4.7	6.8	13	56	34	12	82	66	9.3	.40	1.4
4	.98	4.7	92	13	47	33	12	50	48	46	.44	1.3
5	.70	4.8	322	12	42	54	13	42	35	1260	29	1.2
6	.48	5.9	60	12	38	110	13	35	28	355	289	1.1
7	.46	7.6	38	197	35	218	13	30	23	82	239	.92
8	.55	7.4	29	68	31	1710	15	26	20	42	1030	.88
9	.75	7.5	100	40	28	325	17	409	29	26	115	.87
10	.81	15	442	38	26	140	28	174	19	18	46	1.9
11	.77	11	341	159	24	79	45	59	16	13	22	2.0
12	.83	8.4	75	334	23	53	70	38	40	9.6	13	1.8
13	1.2	7.1	48	110	21	40	50	482	25	6.3	8.8	1.8
14	1.3	6.4	38	208	20	32	33	815	17	4.8	6.3	1.6
15	1.3	6.9	32	628	1120	28	23	164	13	4.1	5.0	1.4
16	1.4	23	92	178	1250	25	18	70	10	4.1	4.4	1.8
17	1.5	20	341	96	247	22	17	1700	8.7	4.0	3.5	3.8
18	1.3	13	82	70	127	19	16	2810	9.9	3.3	3.1	1.7
19	12	11	51	61	91	18	15	1760	9.4	2.4	2.6	.61
20	9.4	11	40	54	74	18	16	316	8.3	1.8	2.6	.86
21	4.8	11	35	48	63	19	203	168	7.7	4.1	4.7	2.5
22	4.5	11	31	45	54	17	67	117	18	3.5	3.3	.89
23	4.6	10	28	41	52	16	42	85	11	15	1.9	.39
24	5.4	9.0	25	38	47	15	138	69	7.6	70	1.2	.25
25	5.5	9.6	22	37	42	13	63	645	25	20	.92	.13
26	4.7	10	21	35	41	13	42	247	9.5	9.0	.95	.11
27	4.1	17	20	34	39	13	34	101	9.9	4.9	1.0	.11
28	4.0	48	18	2150	40	13	29	1190	11	2.4	1.1	.11
29	4.4	19	17	572	---	13	26	298	39	1.4	1.3	.31
30	4.6	11	16	169	---	12	24	114	101	.80	1.4	.42
31	4.8	---	15	101	---	12	---	72	---	.57	1.3	---
TOTAL	93.43	341.0	2493.3	5589	3819	3188	1118	12344	781.0	2066.37	1840.08	34.86
MEAN	3.01	11.4	80.4	180	136	103	37.3	398	26.0	66.7	59.4	1.16
MAX	12	48	442	2150	1250	1710	203	2810	101	1260	1030	3.8
MIN	.46	4.7	6.8	12	20	12	12	26	7.6	.57	.40	.11
CFSM	.04	.14	1.01	2.26	1.71	1.29	.47	4.98	.33	.83	.74	.01
IN.	.04	.16	1.16	2.60	1.78	1.48	.52	5.75	.36	.96	.86	.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995
MEAN	9.92	52.1	87.4	202	144
MAX	26.3	118	120	298	202
(WY)	1994	1994	1992	1993	1992
MIN	3.01	3.14	38.8	127	43.3
(WY)	1995	1992	1993	1992	1995

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1991 - 1995

ANNUAL TOTAL	32861.73	33708.04	
ANNUAL MEAN	90.0	92.4	95.1
HIGHEST ANNUAL MEAN			105
LOWEST ANNUAL MEAN			79.5
HIGHEST DAILY MEAN	2230	2810	2810
LOWEST DAILY MEAN	.24	.11	.11
ANNUAL SEVEN-DAY MINIMUM	.35	.20	.17
INSTANTANEOUS PEAK FLOW		4640	4730
INSTANTANEOUS PEAK STAGE		15.45	16.40
ANNUAL RUNOFF (CFSM)	1.13	1.16	1.19
ANNUAL RUNOFF (INCHES)	15.30	15.69	16.18
10 PERCENT EXCEEDS	215	168	174
50 PERCENT EXCEEDS	16	18	21
90 PERCENT EXCEEDS	.72	1.2	.87

SALT RIVER BASIN

03297980 LONG RUN NEAR FISHERVILLE, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°13'10", long 85°26'56", Jefferson County, Hydrologic Unit 05140102, at bridge on State Highway 1531, 0.7 mi below South Long Run and at mile 2.4.

DRAINAGE AREA.-- 22.5 mi².

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

REMARKS.--Samples were collected monthly.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
NOV						
09...	1000	0.002	683	7.3	16.0	8.8
DEC						
14...	1210	5.8	487	7.5	3.0	12.9
JAN						
18...	0810	19	454	7.5	5.5	11.6
FEB						
16...	0855	200	278	5.7	3.0	12.5
MAR						
15...	0830	9.3	447	6.7	10.0	10.3
APR						
12...	0840	12	441	6.6	13.5	8.2
MAY						
16...	0845	37	429	7.3	17.0	9.2
JUL						
06...	0840	57	357	6.7	21.5	7.4