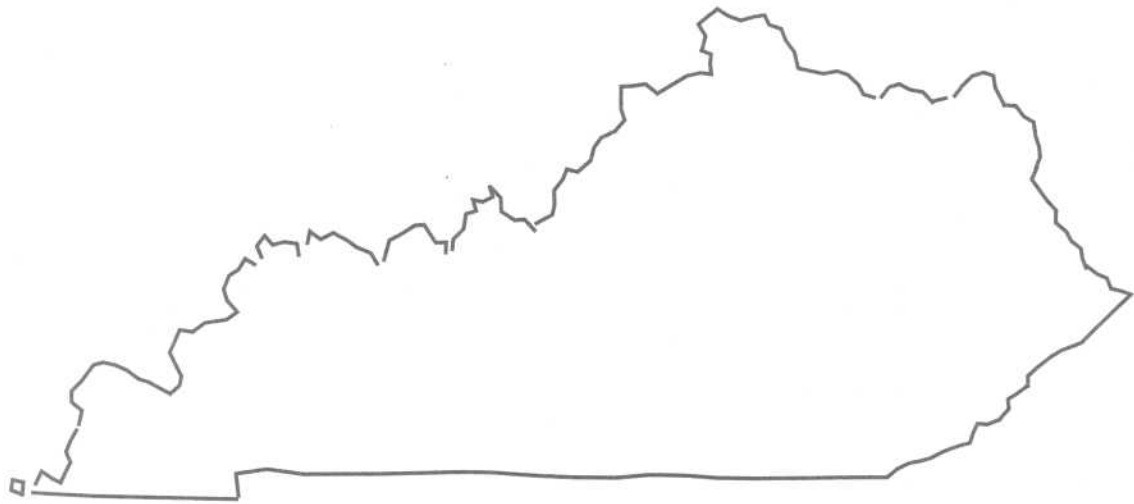




Water Resources Data Kentucky Water Year 1995



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

03402900 CUMBERLAND RIVER AT PINE ST BRIDGE AT PINEVILLE, KY

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

DRAINAGE AREA.--770 mi².

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

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

REMARKS.--Estimated daily discharges: Feb. 7-14. Records good except for period of estimated record, which is poor. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979. Specific conductance and temperature made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	155	610	238	1440	4040	725	883	604	405	188	59
2	133	179	477	250	1370	2640	665	1500	996	358	177	60
3	169	163	366	241	1400	2160	625	1580	1100	281	146	59
4	166	153	352	220	3330	1880	590	1360	784	243	138	58
5	142	144	529	204	3480	1730	572	1260	683	221	108	57
6	127	136	651	469	2330	2550	538	1120	610	212	97	57
7	121	162	545	4360	1800	3810	522	981	570	200	108	57
8	120	166	474	2580	1500	7780	508	914	527	181	156	55
9	119	161	425	1450	1260	7440	488	1110	434	164	187	59
10	145	164	525	1240	1150	4320	466	3190	396	192	179	60
11	150	171	2000	1150	1000	3840	430	4710	424	247	166	56
12	138	170	1370	1830	900	3820	541	3220	967	205	138	60
13	144	145	959	1770	790	3520	693	2760	1010	163	130	80
14	160	136	789	1660	730	2940	619	13600	751	151	114	104
15	155	135	672	9530	7630	2420	562	14600	587	147	99	87
16	161	136	605	13800	13300	2040	522	6000	471	142	88	83
17	163	163	555	5940	8490	1640	543	3580	415	146	79	117
18	160	164	488	3210	4710	1410	573	2980	365	165	75	135
19	153	157	441	2440	3220	1270	539	9420	340	154	73	121
20	169	136	415	2580	2550	1200	652	5960	381	140	83	90
21	176	137	394	2190	2220	2040	1070	3270	465	118	99	82
22	166	137	371	1850	1920	2040	1210	2440	464	111	91	117
23	176	137	334	1620	1710	1800	1100	1870	412	115	80	228
24	217	134	316	1430	1450	1590	1940	1470	420	123	72	202
25	226	133	299	1180	1270	1370	2000	1210	489	137	68	150
26	191	142	285	1010	1190	1230	1610	1060	482	135	64	143
27	178	205	279	912	1130	1170	1300	882	367	149	63	145
28	170	1660	269	943	3420	1070	1080	821	282	139	62	146
29	159	1520	257	1450	---	908	932	758	252	134	61	123
30	142	825	252	1720	---	826	891	698	261	111	61	101
31	131	---	249	1620	---	775	---	626	---	111	60	---
TOTAL	4844	8126	16553	71087	76690	77269	24506	95833	16309	5500	3310	2951
MEAN	156	271	534	2293	2739	2493	817	3091	544	177	107	98.4
MAX	226	1660	2000	13800	13300	7780	2000	14600	1100	405	188	228
MIN	117	133	249	204	730	775	430	626	252	111	60	55
CFSM	.20	.35	.69	2.98	3.56	3.24	1.06	4.01	.71	.23	.14	.13
IN.	.23	.39	.80	3.43	3.71	3.73	1.18	4.63	.79	.27	.16	.14

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

	1992	1993	1994	1995
MEAN	207	551	2715	2462
MAX	330	715	5204	4201
(WY)	1993	1993	1992	1994
MIN	142	271	534	1540
(WY)	1992	1995	1995	1993

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1992 - 1995

ANNUAL TOTAL	739019	402978		
ANNUAL MEAN	2025	1104	1503	
HIGHEST ANNUAL MEAN			2241	1994
LOWEST ANNUAL MEAN			1104	1995
HIGHEST DAILY MEAN	30100	Feb 12	14600	May 15
LOWEST DAILY MEAN	117	Oct 1	55	Sep 8
ANNUAL SEVEN-DAY MINIMUM	131	Oct 6	57	Sep 5
INSTANTANEOUS PEAK FLOW			20300	May 14
INSTANTANEOUS PEAK STAGE			30.31	May 14
INSTANTANEOUS LOW FLOW			51	Sep 8
ANNUAL RUNOFF (CFSM)	2.63	1.43		1.95
ANNUAL RUNOFF (INCHES)	35.70	19.47		26.53
10 PERCENT EXCEEDS	4810	2580	3220	
50 PERCENT EXCEEDS	545	430	648	
90 PERCENT EXCEEDS	155	103	136	

CUMBERLAND RIVER BASIN

03404000 CUMBERLAND RIVER AT WILLIAMSBURG, KY

LOCATION.--Lat 36°44'36", long 84°09'22", Whitley County, Hydrologic Unit 05130101, on right bank 100 ft upstream from bridge on State Highway 296E at Williamsburg, 2.0 mi downstream from Clear Fork, and at mile 590.4.

DRAINAGE AREA.--1,607 mi².

PERIOD OF RECORD.--October 1950 to current year. Gage-height records collected in this vicinity since 1908 are published in reports of National Weather Service.

REVISED RECORDS.--WSP 1436: Drainage area.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 891.52 ft above sea level. See WDR KY-90-1 for history of changes prior to June 26, 1990.

REMARKS.--Estimated daily discharges: Feb. 8-14. Records good except for period of estimated record, which is fair. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	206	1290	413	2930	4940	1380	1770	1290	1360	175	89
2	172	191	930	410	2650	5370	1290	2210	1420	1140	191	88
3	168	196	737	410	2570	4020	1180	3000	1980	781	351	87
4	175	226	601	408	2870	3420	1110	2900	1940	579	265	91
5	205	221	746	383	4800	3060	1050	2530	1420	479	217	92
6	213	207	1150	475	4910	3630	1010	2260	1160	465	204	86
7	199	198	1260	4280	3690	6280	954	1970	1060	493	184	83
8	176	192	1050	7290	3000	13100	918	1670	1060	424	361	78
9	176	198	874	4740	2500	20100	885	1540	934	364	732	76
10	184	210	831	2770	2250	16300	855	4050	783	323	501	75
11	224	210	2470	2210	2000	11300	811	7160	773	380	426	72
12	220	210	3540	2600	1800	7970	879	7760	1490	390	419	91
13	223	212	2540	3570	1600	6950	1230	5630	2250	374	320	137
14	225	216	1710	4040	1450	6000	1300	10900	1930	307	254	113
15	231	205	1350	11800	4600	4980	1170	20600	1370	256	219	145
16	238	196	1130	17800	15500	4140	1050	19300	1040	232	195	157
17	232	190	1060	17500	19000	3510	1010	17800	866	228	172	157
18	222	190	1050	14800	17700	2930	1190	11200	728	241	149	169
19	226	194	956	7420	12600	2530	1220	9190	647	261	136	198
20	224	202	857	5170	6310	2290	1230	12400	619	252	148	204
21	233	206	774	4960	4500	2810	2560	10900	627	231	132	183
22	243	191	718	4140	3830	3780	3930	5870	692	209	125	159
23	258	180	681	3420	3260	3630	3510	3850	674	191	138	174
24	247	178	633	2920	2870	3220	3660	2930	681	180	143	263
25	251	177	582	2520	2490	2770	4320	2410	651	178	128	312
26	277	176	539	2120	2180	2400	3930	2290	739	183	115	295
27	284	181	506	1840	2020	2180	3120	1910	779	189	107	281
28	267	652	476	1740	2360	2120	2540	3230	638	190	102	295
29	237	2490	458	2220	---	1920	2100	3460	526	199	98	248
30	225	2290	438	2940	---	1640	1800	2320	532	189	91	218
31	219	---	423	3180	---	1490	---	1560	---	184	89	---
TOTAL	6856	10791	32360	140489	138240	160780	53192	186570	31299	11452	6887	4716
MEAN	221	360	1044	4532	4937	5186	1773	6018	1043	369	222	157
MAX	284	2490	3540	17800	19000	20100	4320	20600	2250	1360	732	312
MIN	168	176	423	383	1450	1490	811	1540	526	178	89	72
CFSM	.14	.22	.65	2.82	3.07	3.23	1.10	3.75	.65	.23	.14	.10
IN.	.16	.25	.75	3.25	3.20	3.72	1.23	4.32	.72	.27	.16	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1995, BY WATER YEAR (WY)

MEAN	632	1726	3710	4651	5298	5999	4284	2898	1468	951	671	474
MAX	4413	6552	9751	11860	13550	14670	9717	9572	8305	4906	2142	3280
(WY)	1990	1978	1992	1974	1956	1963	1977	1984	1989	1967	1971	1989
MIN	10.2	50.6	150	203	1190	1193	730	705	277	122	109	33.3
(WY)	1954	1954	1966	1981	1968	1988	1986	1962	1988	1952	1954	1953

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1951 - 1995	
ANNUAL TOTAL	1434694		783632			
ANNUAL MEAN	3931		2147		2719	
HIGHEST ANNUAL MEAN					4390	
LOWEST ANNUAL MEAN					1159	
HIGHEST DAILY MEAN	38500	Feb 13	20600	May 15	47600	Feb 1 1957
LOWEST DAILY MEAN	168	Oct 3	72	Sep 11	6.1	Oct 26 1953
ANNUAL SEVEN-DAY MINIMUM	184	Nov 21	80	Sep 6	6.9	Oct 22 1953
INSTANTANEOUS PEAK FLOW			21400	May 15	49700	Jan 31 1957
INSTANTANEOUS PEAK STAGE			21.09	May 15	35.03	Apr 7 1977
INSTANTANEOUS LOW FLOW			72	Sep 11	6.1	Oct 23 1953
ANNUAL RUNOFF (CFSM)	2.45		1.34		1.69	
ANNUAL RUNOFF (INCHES)	33.21		18.14		22.99	
10 PERCENT EXCEEDS	12300		4920		6520	
50 PERCENT EXCEEDS	1080		781		1200	
90 PERCENT EXCEEDS	213		173		161	

CUMBERLAND RIVER BASIN

03404900 LYNN CAMP CREEK AT CORBIN, KY

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

DRAINAGE AREA.--53.8 mi².

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

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

REMARKS.--Estimated daily discharges: Feb. 3-14. Record good except for periods of estimated record, which is poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	10	41	16	93	71	29	98	47	170	3.3	1.3
2	3.4	10	35	16	84	59	29	179	71	48	5.0	1.3
3	3.4	10	32	16	74	57	26	104	77	27	4.4	1.3
4	3.2	10	66	15	65	62	25	82	36	19	4.2	1.3
5	2.7	10	202	12	56	86	26	78	27	15	4.0	1.3
6	2.7	8.9	121	270	50	229	26	63	24	19	3.3	1.3
7	2.6	8.9	81	637	48	210	26	53	21	20	3.9	1.3
8	2.3	9.5	60	173	45	1330	25	49	20	12	137	1.3
9	9.8	9.7	56	115	42	618	23	64	24	9.6	55	1.3
10	8.2	12	225	84	40	297	21	85	18	7.7	19	1.3
11	6.7	12	344	89	38	260	21	87	94	6.7	13	2.1
12	4.6	12	131	194	36	203	107	58	158	5.1	9.4	5.0
13	21	12	85	123	35	162	65	236	69	4.7	6.7	22
14	23	12	58	349	33	134	42	1360	35	4.2	5.9	17
15	15	11	41	1030	829	115	36	771	23	4.2	4.9	5.7
16	11	10	40	779	953	101	33	207	17	4.2	4.1	9.8
17	9.2	10	79	266	500	88	56	195	14	6.5	3.0	20
18	8.2	10	60	164	237	78	62	345	12	8.7	2.8	11
19	9.4	10	44	154	168	70	43	679	10	5.5	1.9	5.5
20	12	10	36	231	133	78	160	241	13	4.5	7.3	4.3
21	12	10	32	151	113	126	444	147	15	3.0	4.1	3.5
22	11	10	28	119	93	84	202	102	11	3.0	2.5	17
23	11	10	28	100	82	72	172	75	12	3.0	1.7	15
24	12	10	25	83	74	63	309	55	24	3.0	1.1	8.2
25	12	10	22	70	63	52	163	58	12	7.5	.74	5.8
26	11	9.2	20	64	58	43	121	92	56	7.6	3.9	17
27	9.3	94	19	57	58	48	96	47	133	8.0	9.2	21
28	8.9	322	18	140	90	50	84	225	32	6.6	3.9	10
29	8.9	107	17	192	---	39	67	177	19	4.8	2.4	6.5
30	8.9	58	16	130	---	35	59	79	21	3.2	1.7	5.4
31	8.9	---	16	108	---	30	---	53	---	2.7	1.3	---
TOTAL	276.0	848.2	2078	5947	4190	4950	2598	6144	1145	454.0	330.64	224.8
MEAN	8.90	28.3	67.0	192	150	160	86.6	198	38.2	14.6	10.7	7.49
MAX	23	322	344	1030	953	1330	444	1360	158	170	137	22
MIN	2.3	8.9	16	12	33	30	21	47	10	2.7	.74	1.3
CFSM	.17	.53	1.25	3.57	2.78	2.97	1.61	3.68	.71	.27	.20	.14
IN.	.19	.59	1.44	4.11	2.90	3.42	1.80	4.25	.79	.31	.23	.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1995, BY WATER YEAR (WY)

MEAN	33.2	85.5	124	153	163	157	105	93.0	49.4	37.9	25.9	31.3
MAX	133	267	378	372	326	458	242	387	171	110	78.4	100
(WY)	1990	1974	1991	1974	1994	1975	1994	1983	1989	1978	1979	1982
MIN	1.35	10.8	10.4	5.13	56.9	41.9	16.5	9.47	2.38	2.11	2.50	1.89
(WY)	1981	1979	1981	1981	1977	1988	1986	1986	1988	1975	1976	1983

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1967 - 1995

ANNUAL TOTAL	45224.7	29185.64										
ANNUAL MEAN	124	80.0								87.9		
HIGHEST ANNUAL MEAN										141		1994
LOWEST ANNUAL MEAN										36.5		1988
HIGHEST DAILY MEAN	1740	Feb 11				1360	May 14		4150	May 7	1984	
LOWEST DAILY MEAN	2.3	Oct 8				.74	Aug 25			.02	Jun 24	1988
ANNUAL SEVEN-DAY MINIMUM	2.9	Oct 2				1.3	Aug 31			.02	Jun 24	1988
INSTANTANEOUS PEAK FLOW						2000	May 14		9000	Jan 29	1957	
INSTANTANEOUS PEAK STAGE						8.28	May 14			22.50	Jan 29	1957
INSTANTANEOUS LOW FLOW										.02	Jun 24	1988
ANNUAL RUNOFF (CFSM)	2.30					1.49				1.63		
ANNUAL RUNOFF (INCHES)	31.27					20.18				22.20		
10 PERCENT EXCEEDS	327					184				196		
50 PERCENT EXCEEDS	44					26				36		
90 PERCENT EXCEEDS	7.1					3.5				3.4		

CUMBERLAND RIVER BASIN

03406500 ROCKCASTLE RIVER AT BILLOWS, KY

LOCATION.--Lat 37°10'16", long 84°17'46", Laurel County, Hydrologic Unit 05130102, on left bank 200 ft upstream from bridge on State Highway 80 at Billows, 0.9 mi upstream from Pine Creek, 1.1 mi downstream from Hawk Creek, 13 mi west of London, and at mile 24.4.

DRAINAGE AREA.--604 mi².

PERIOD OF RECORD.--July 1936 to current year.

REVISED RECORDS.--WSP 1436: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 802.90 ft above sea level. Prior to Nov. 19, 1940, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Feb. 3-14. Records good except for period of estimated record, which is poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	42	457	181	925	931	473	848	458	291	41	20
2	26	44	342	181	868	806	437	3640	1100	355	72	27
3	25	44	269	175	830	751	404	2930	1140	271	57	23
4	24	48	260	162	790	724	375	1930	934	211	82	22
5	23	46	917	144	730	706	343	1500	682	168	57	23
6	22	51	1280	337	680	913	315	1190	532	184	49	22
7	21	54	852	7340	630	1460	298	936	438	258	43	20
8	20	52	620	3920	590	4240	284	766	365	266	52	20
9	22	52	485	1910	550	6780	271	693	308	193	181	20
10	23	53	627	1290	510	3590	264	1910	273	144	219	20
11	21	52	4350	1020	470	3060	260	2050	270	119	165	19
12	24	51	2150	1160	450	2630	315	1650	590	101	171	18
13	44	49	1210	1140	430	2110	781	3040	855	88	107	20
14	195	47	854	1210	410	1650	682	14200	565	78	76	20
15	295	46	643	8470	3540	1330	590	9900	414	68	60	20
16	171	47	533	11500	9750	1100	530	4160	384	64	48	34
17	110	46	541	5650	5980	920	663	2610	351	67	41	90
18	81	45	579	2650	3360	780	1020	5710	264	77	36	117
19	69	44	514	1830	2220	674	865	24200	216	101	31	130
20	63	43	459	2270	1660	619	1070	12000	216	76	31	86
21	60	43	416	2020	1370	852	2720	2930	277	65	31	60
22	62	44	379	1570	1130	907	3090	1820	287	55	88	49
23	84	42	348	1270	947	817	1950	1270	244	48	55	49
24	68	40	322	1040	815	861	5330	931	227	46	41	39
25	57	38	293	841	675	733	3810	718	244	44	33	33
26	52	38	265	723	600	657	2230	645	357	47	29	37
27	49	50	240	637	559	639	1580	527	1580	51	25	34
28	46	2160	221	663	695	708	1240	767	791	52	23	31
29	42	2080	208	1190	---	624	966	1010	476	44	21	29
30	39	717	195	1130	---	560	810	702	339	38	19	26
31	39	---	186	1010	---	513	---	537	---	33	18	---
TOTAL	1904	6208	21015	64634	42164	43645	33966	107720	15177	3703	2002	1158
MEAN	61.4	207	678	2085	1506	1408	1132	3475	506	119	64.6	38.6
MAX	295	2160	4350	11500	9750	6780	5330	24200	1580	355	219	130
MIN	20	38	186	144	410	513	260	527	216	33	18	18
CFSM	.10	.34	1.12	3.45	2.49	2.33	1.87	5.75	.84	.20	.11	.06
IN.	.12	.38	1.29	3.98	2.60	2.69	2.09	6.63	.93	.23	.12	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1995, BY WATER YEAR (WY)

MEAN	199	573	1293	1679	1953	1997	1472	964	518	358	204	156
MAX	2887	2374	5279	5990	5236	5860	4051	4207	2861	1830	1263	1052
(WY)	1990	1987	1991	1937	1956	1975	1972	1983	1947	1941	1977	1974
MIN	3.18	11.5	16.5	56.9	208	507	188	115	37.9	10.8	10.1	4.95
(WY)	1954	1954	1954	1981	1941	1983	1986	1941	1988	1944	1957	1936

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1936 - 1995

ANNUAL TOTAL	495357					343296						
ANNUAL MEAN	1357					941				943		
HIGHEST ANNUAL MEAN										1575		1979
LOWEST ANNUAL MEAN										345		1954
HIGHEST DAILY MEAN	19700					24200		May 19		46200		Dec 9 1978
LOWEST DAILY MEAN	20					18		Aug 31		.90		Sep 9 1957
ANNUAL SEVEN-DAY MINIMUM	22					20		Sep 7		1.4		Sep 11 1964
INSTANTANEOUS PEAK FLOW						26500		May 19		50000		Dec 9 1978
INSTANTANEOUS PEAK STAGE						32.57		May 19		47.17		Dec 9 1978
INSTANTANEOUS LOW FLOW						18		Aug 31		.80		Sep 9 1957
ANNUAL RUNOFF (CFSM)	2.25					1.56				1.56		
ANNUAL RUNOFF (INCHES)	30.51					21.14				21.21		
10 PERCENT EXCEEDS	3540					2130				2140		
50 PERCENT EXCEEDS	297					337				325		
90 PERCENT EXCEEDS	40					31				24		

CUMBERLAND RIVER BASIN

03410500 SOUTH FORK CUMBERLAND RIVER NEAR STEARNS, KY

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

DRAINAGE AREA.--954 mi².

WATER-DISCHARGE RECORDS

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

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

GAGE--Datum of gage is 763.83 ft above sea level; prior to Oct. 1, 1980 at site 1,000 ft upstream at datum 0.98 ft higher.

REMARKS.--Estimated daily discharges. Water-discharge records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1929 reached a stage of 52.9 ft from information by local residents.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	102	884	320	1840	2020	682	913	1260	276	79	45
2	85	99	628	313	1640	1760	646	1840	1460	392	80	47
3	81	94	492	303	1530	1490	602	2230	1620	357	84	43
4	75	95	460	295	1490	1340	571	1650	1280	264	76	43
5	70	94	962	263	1600	1290	523	1340	899	220	80	41
6	67	101	2300	493	1280	2510	499	1100	699	220	88	40
7	63	114	1640	6490	1140	4420	469	913	573	216	86	40
8	61	111	1160	4840	960	17200	459	768	765	187	147	37
9	70	106	899	2790	830	15200	435	753	764	158	466	37
10	98	109	824	1970	770	6550	415	3900	537	129	509	34
11	104	113	4330	1580	750	5050	389	5590	593	122	296	31
12	94	106	3500	3360	710	4160	425	4240	1800	125	197	59
13	160	104	2010	4070	690	3260	619	2660	1980	121	150	57
14	158	101	1410	4980	660	2590	694	5440	1310	115	124	80
15	133	105	1090	25100	3320	2110	564	8420	877	98	106	63
16	111	109	898	14100	9990	1780	522	4260	636	86	90	61
17	107	107	811	7180	11000	1520	505	3730	494	79	80	111
18	111	102	788	4340	5570	1300	532	2180	398	95	71	119
19	106	97	721	3100	3770	1130	692	2490	336	78	68	120
20	115	97	636	3200	2810	1040	679	1910	332	100	71	171
21	121	96	573	2920	2250	1200	1640	1350	361	103	143	129
22	121	87	541	2330	1820	1520	3590	1010	470	85	210	111
23	139	83	516	1920	1510	1310	2420	794	469	78	124	100
24	145	79	487	1630	1340	1160	3120	640	402	79	97	93
25	137	76	454	1370	1180	1000	3120	528	333	79	93	132
26	142	75	420	1210	1050	885	2230	1450	378	73	81	151
27	137	116	392	1120	985	847	1700	1190	653	62	71	146
28	123	1650	367	1170	1070	905	1340	1870	597	62	65	143
29	110	3790	348	2050	---	891	1080	7140	431	75	59	126
30	107	1450	333	2690	---	775	928	3340	316	67	53	114
31	106	---	325	2200	---	721	---	1800	---	66	48	---
TOTAL	3345	9568	31199	109697	63555	88934	32090	77439	23023	4267	3992	2524
MEAN	108	319	1006	3539	2270	2869	1070	2498	767	138	129	84.1
MAX	160	3790	4330	25100	11000	17200	3590	8420	1980	392	509	171
MIN	61	75	325	263	660	721	389	528	316	62	48	31
CFSM	.11	.33	1.05	3.71	2.38	3.01	1.12	2.62	.80	.14	.13	.09
IN.	.13	.37	1.22	4.28	2.48	3.47	1.25	3.02	.90	.17	.16	.10

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

MEAN	401	1259	2681	3318	3585	3663	2533	1698	865	607	404	372
MAX	2553	4556	7388	9615	8747	10580	6038	6555	5152	3772	2997	2983
(WY)	1990	1958	1991	1950	1956	1975	1977	1984	1989	1967	1971	1982
MIN	20.8	30.6	150	145	725	1248	568	224	72.8	34.5	65.4	29.6
(WY)	1954	1954	1964	1981	1968	1985	1986	1948	1988	1944	1951	1953

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1943 - 1995

ANNUAL TOTAL	871870											
ANNUAL MEAN	2389									1774		
HIGHEST ANNUAL MEAN										3023		1973
LOWEST ANNUAL MEAN										810		1988
HIGHEST DAILY MEAN	50700				Mar 28		25100	Jan 15		80200		Mar 13 1975
LOWEST DAILY MEAN	61				Oct 8		31	Sep 11		11		Sep 18 1954
ANNUAL SEVEN-DAY MINIMUM	70				Oct 3		37	Sep 5		12		Sep 13 1954
INSTANTANEOUS PEAK FLOW							30700	Mar 8		93200		May 28 1973
INSTANTANEOUS PEAK STAGE							24.97	Mar 8		46.29		May 28 1973
INSTANTANEOUS LOW FLOW										11		Oct 4 1948
ANNUAL RUNOFF (CFSM)	2.50						1.29			1.86		
ANNUAL RUNOFF (INCHES)	34.00						17.53			25.27		
10 PERCENT EXCEEDS			6200				3120			4060		
50 PERCENT EXCEEDS			732				494			710		
90 PERCENT EXCEEDS			107				76			83		

CUMBERLAND RIVER BASIN

03410500 SOUTH FORK CUMBERLAND RIVER NEAR STEARNS, KY--Continued

(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960-72, 1979 to February 1995 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1980 to September 1990.

pH: May 1980 to September 1990.

WATER TEMPERATURE: May 1980 to September 1990.

DISSOLVED OXYGEN: May 1980 to September 1990.

TURBIDITY: May 1980 to September 1987.

SUSPENDED SEDIMENT DISCHARGE: May 1980 to September 1990.

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

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

EXTREMES FOR PERIOD OF RECORD.--

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

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

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

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

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

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 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 SATURATION	COLIFORM, FECAL, UM-MF (COLS/100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	
OCT	18...	1215	110	144	7.6	16.5	0.70	8.4	88	3	25	50	12
DEC	07...	1405	1560	147	8.0	13.0	4.4	10.7	104	--	1300	56	14
FEB	22...	1205	1820	93	--	6.5	1.8	11.0	92	K5	10	34	7.7

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 HCO3)	ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CaCO3)	ALKALINITY WAT DIS TOT FET FIELD (MG/L AS CaCO3)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	SULFATE, DIS-SOLVED (MG/L AS SO4)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)	
OCT	18...	4.8	6.2	1.8	33	27	27	4.9	31	<0.10	2.4	61	<0.010
DEC	07...	5.2	4.7	1.6	--	--	24	3.2	37	<0.10	4.9	97	<0.010
FEB	22...	3.5	2.1	1.1	--	--	--	1.9	22	<0.10	4.7	57	<0.010

DATE	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DIS-SOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ALUMINUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	COBALT, DIS-SOLVED (UG/L AS CO)	IRON, DIS-SOLVED (UG/L AS FE)	
OCT	18...	<0.05	0.02	<0.2	<0.01	<0.01	<0.01	10	27	<3	54
DEC	07...	0.16	0.02	<0.2	0.03	0.03	0.02	40	24	<3	79
FEB	22...	0.33	0.23	<0.2	<0.01	<0.01	<0.01	--	--	--	--

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	NESE, DIS-SOLVED (UG/L AS MN)	DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	MANGANESE, DIS-SOLVED (UG/L AS SE)	MOLYBDENUM, DIS-SOLVED (UG/L AS AG)	SELENIUM, DIS-SOLVED (UG/L AS SR)	STRONTIUM, DIS-SOLVED (UG/L AS V)	VANADIUM, DIS-SOLVED (MG/L)	SEDIMENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	
OCT	18...	<4	30	<10	2	<1	<1.0	45	<6	2	0.59	57
DEC	07...	<4	35	<10	2	<1	<1.0	40	<6	11	46	77
FEB	22...	--	--	--	--	--	--	--	8	40	58	

CUMBERLAND RIVER BASIN

03413200 BEAVER CREEK NEAR MONTICELLO, KY

LOCATION.--Lat 36°47'51", long 84°53'46", Wayne County, Hydrologic Unit 05130103, on left bank upstream of bridge on State Highway 200, 0.6 mi downstream from unnamed tributary, 0.8 mi northeast of Bethesda, 0.9 mi upstream from unnamed tributary, 3.8 mi southwest of Monticello, and at mile 24.0.

DRAINAGE AREA.--43.4 mi².

PERIOD OF RECORD.--October 1968 to September 1983, October 1989 to current year.

GAGE.--Water-stage recorder. Datum of gage is 804.72 ft above sea level.

REMARKS.--Estimated daily discharges: Feb. 3-14. Records good except for period of estimated record, which is poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality section.

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

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	2.8	13	7.7	42	26	17	92	39	15	2.5	1.4
2	2.8	3.0	10	7.2	40	23	16	209	53	10	4.2	1.4
3	2.8	3.1	8.4	7.1	38	22	15	86	35	7.5	5.1	1.4
4	2.8	3.1	15	6.6	37	22	15	57	25	6.6	3.5	1.4
5	2.7	3.1	46	6.2	35	35	14	42	20	6.1	3.1	1.8
6	2.8	3.1	27	335	33	139	14	32	18	7.7	3.1	1.2
7	2.8	3.1	19	363	32	121	14	26	16	7.7	3.1	1.5
8	2.8	3.1	14	119	30	724	13	22	14	6.1	8.2	1.4
9	4.5	2.8	12	70	28	302	12	31	13	5.7	5.9	1.4
10	5.3	2.8	148	49	27	217	12	49	12	5.6	4.3	1.4
11	5.3	3.0	194	40	26	202	11	30	21	5.7	3.5	1.5
12	4.5	3.1	64	74	26	149	12	25	33	4.9	3.1	1.8
13	9.0	2.8	36	56	25	113	15	27	18	4.9	2.8	2.2
14	7.9	2.8	25	117	24	89	13	723	14	4.5	2.8	2.5
15	5.0	2.8	19	412	980	71	12	252	12	4.4	2.5	2.4
16	3.9	2.8	17	105	584	60	11	120	11	3.9	2.3	3.1
17	3.2	2.8	16	53	335	50	11	94	9.7	4.3	2.3	4.3
18	3.1	2.6	16	48	189	43	11	349	9.0	4.9	2.3	2.7
19	3.1	2.5	14	74	134	37	12	559	8.9	4.4	2.2	2.3
20	3.3	2.4	13	63	101	36	12	174	8.9	3.9	2.0	2.3
21	3.5	2.5	12	50	77	39	84	105	8.7	3.9	2.0	2.0
22	3.5	2.5	11	41	60	36	57	70	10	4.2	1.8	2.0
23	3.1	2.3	11	35	53	32	36	50	9.1	3.9	1.6	2.0
24	2.7	2.1	10	30	42	27	49	38	7.9	3.9	1.6	2.0
25	2.8	2.0	9.5	26	36	23	38	30	8.2	3.6	1.6	2.0
26	2.8	2.0	8.6	24	34	23	30	25	8.0	3.5	1.8	2.0
27	2.8	7.3	8.3	22	31	23	25	21	10	3.2	1.8	2.4
28	2.8	218	7.9	47	30	21	23	81	8.8	2.8	1.8	2.4
29	2.8	42	7.7	85	---	19	20	64	7.0	2.5	1.8	2.0
30	2.8	19	7.7	58	---	18	19	33	7.7	2.5	1.8	2.0
31	2.8	---	7.7	47	---	17	---	25	---	2.5	1.4	---
TOTAL	112.8	357.3	827.8	2477.8	3129	2759	643	3541	475.9	160.3	87.8	60.2
MEAN	3.64	11.9	26.7	79.9	112	89.0	21.4	114	15.9	5.17	2.83	2.01
MAX	9.0	218	194	412	980	724	84	723	53	15	8.2	4.3
MIN	2.7	2.0	7.7	6.2	24	17	11	21	7.0	2.5	1.4	1.2
CFSM	.08	.27	.62	1.84	2.57	2.05	.49	2.63	.37	.12	.07	.05
IN.	.10	.31	.71	2.12	2.68	2.36	.55	3.04	.41	.14	.08	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1995, BY WATER YEAR (WY)

	MEAN	24.8	33.8	108	120	119	131	117	58.4	41.0	18.0	18.3	17.2
MAX	281	109	459	265	225	479	234	215	193	101	124	106	
(WY)	1990	1980	1991	1974	1991	1975	1977	1983	1981	1971	1971	1982	
MIN	1.72	3.47	2.41	2.36	28.1	24.0	21.4	16.6	4.83	3.13	1.89	1.17	
(WY)	1981	1972	1981	1981	1981	1983	1995	1982	1980	1980	1980	1980	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1969 - 1995

ANNUAL TOTAL	26258.8	14631.9		
ANNUAL MEAN	71.9	40.1	67.0	
HIGHEST ANNUAL MEAN			103	1979
LOWEST ANNUAL MEAN			32.5	1969
HIGHEST DAILY MEAN	2620	Apr 11	980	Feb 15
LOWEST DAILY MEAN	2.0	Nov 25	1.2	Sep 6
ANNUAL SEVEN-DAY MINIMUM	2.3	Nov 20	1.4	Aug 31
INSTANTANEOUS PEAK FLOW			1680	Feb 15
INSTANTANEOUS PEAK STAGE			5.62	Feb 15
INSTANTANEOUS LOW FLOW			1.2	Sep 5
ANNUAL RUNOFF (CFSM)	1.66		.92	1.54
ANNUAL RUNOFF (INCHES)	22.51		12.54	20.97
10 PERCENT EXCEEDS	179		84	135
50 PERCENT EXCEEDS	14		11	20
90 PERCENT EXCEEDS	2.8		2.2	2.7

CUMBERLAND RIVER BASIN

03438000 LITTLE RIVER NEAR CADIZ, KY

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

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

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

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

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

REMARKS.--No estimated daily discharges. Records good. 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	41	32	274	132	292	324	142	282	310	117	83	36
2	38	30	218	124	273	298	136	710	316	121	74	33
3	36	30	185	117	260	278	131	548	419	106	69	32
4	33	30	165	113	248	263	133	395	354	101	64	30
5	32	33	199	105	227	255	124	317	301	109	112	28
6	32	85	232	329	210	317	119	265	273	112	213	29
7	32	138	187	1290	202	540	114	227	671	106	186	29
8	31	77	162	744	184	1340	113	199	614	97	166	29
9	35	61	154	556	184	1040	109	184	468	90	172	29
10	34	59	1690	459	178	740	108	200	368	85	164	29
11	49	69	2590	408	174	620	105	177	370	80	123	28
12	41	57	1090	400	153	537	100	146	635	77	114	26
13	51	50	765	380	142	473	104	132	522	73	106	24
14	96	46	619	733	143	423	100	988	388	70	94	24
15	75	41	516	989	1990	382	94	1180	324	67	83	22
16	54	39	448	747	3970	352	90	628	276	64	75	28
17	47	39	461	626	2930	323	89	808	238	61	71	38
18	44	38	439	544	1600	298	87	2310	215	58	66	61
19	45	37	376	1260	1170	278	81	5630	197	56	61	38
20	52	36	339	1510	906	265	100	2730	193	53	61	33
21	61	36	304	962	757	260	324	1410	198	52	77	29
22	54	33	277	738	647	258	394	1010	187	60	56	25
23	51	35	254	618	574	242	251	774	164	58	51	23
24	60	34	231	530	507	223	208	647	166	90	48	22
25	48	31	211	462	453	203	197	558	154	403	45	20
26	43	30	193	410	415	189	171	509	143	267	43	22
27	39	455	177	374	380	182	146	488	132	169	42	23
28	36	2110	166	363	352	177	130	447	124	131	41	22
29	34	769	157	360	---	168	116	418	120	113	42	22
30	36	391	147	352	---	158	115	374	113	106	41	22
31	35	---	139	316	---	150	---	337	---	93	37	---
TOTAL	1395	4951	13365	17051	19521	11556	4231	25028	8953	3245	2680	856
MEAN	45.0	165	431	550	697	373	141	807	298	105	86.5	28.5
MAX	96	2110	2590	1510	3970	1340	394	5630	671	403	213	61
MIN	31	30	139	105	142	150	81	132	113	52	37	20
CFSM	.18	.68	1.77	2.25	2.86	1.53	.58	3.31	1.22	.43	.35	.12
IN.	.21	.75	2.04	2.60	2.98	1.76	.65	3.82	1.36	.49	.41	.13

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

MEAN	57.1	208	458	563	701	738	557	409	197	146	91.5	95.0
MAX	200	1677	1985	2168	2130	2432	1924	1875	583	790	381	925
(WY)	1985	1958	1979	1950	1989	1975	1979	1984	1981	1989	1950	1950
MIN	12.3	14.1	14.2	27.3	39.6	28.1	37.5	21.4	34.0	29.6	23.9	15.7
(WY)	1944	1941	1964	1963	1963	1941	1941	1941	1963	1988	1952	1941

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	160750		112832			
ANNUAL MEAN	440		309		350	
HIGHEST ANNUAL MEAN					738	
LOWEST ANNUAL MEAN					58.9	
HIGHEST DAILY MEAN	4910	Mar 28	5630	May 19	12100	May 7 1984
LOWEST DAILY MEAN	30	Nov 2	20	Sep 25	3.6	Oct 3 1941
ANNUAL SEVEN-DAY MINIMUM	32	Oct 30	22	Sep 24	7.0	Oct 24 1940
INSTANTANEOUS PEAK FLOW			6820	May 18	20200	May 7 1984
INSTANTANEOUS PEAK STAGE			15.49	May 18	22.45	May 7 1984
INSTANTANEOUS LOW FLOW			20	Sep 25	1.0	Oct 3 1941
ANNUAL RUNOFF (CFSM)	1.80		1.27		1.44	
ANNUAL RUNOFF (INCHES)	24.51		17.20		19.50	
10 PERCENT EXCEEDS	1090		657		827	
50 PERCENT EXCEEDS	154		153		135	
90 PERCENT EXCEEDS	36		33		27	

CUMBERLAND RIVER BASIN

03438190 BARKLEY-KENTUCKY CANAL NEAR GRAND RIVERS, KY

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

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

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

REMARKS.--Estimated daily discharges: Jan. 7, 10, 11. Records fair, except for periods of estimated record, which are poor. Figures of discharge represent net flow between Lake Barkley in Cumberland River Basin and Kentucky Lake in Tennessee River Basin. Canal initially opened on June 13, 1966. Discharges shown as minus are flow from Kentucky Lake to Lake Barkley. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-14000	-21500	-24200	401	-33300	-24100	-464	1060	8230	-1740	-5310	-1450
2	-14300	-23800	-20800	-4040	-31000	-27800	2090	-2880	-3080	1190	-13100	629
3	-15400	-24200	-16800	-3380	-26100	-29400	214	6590	-917	-508	-8700	-2280
4	-16600	-23000	-23600	-8510	-20800	-25700	3830	5640	-6380	-2030	-9220	-4070
5	-18000	-18200	-19800	-9720	-18600	-24700	-4440	271	-30300	-10600	-9520	4100
6	-10600	-4350	-16000	-4710	-15900	-24900	-2050	722	-23600	-13100	195	-3950
7	-21500	-9450	-21300	14100	-19500	-13000	-108	6540	-1210	-11000	-14000	-3200
8	-19300	-21700	-25500	11600	-21600	-6040	-1790	-1190	-6340	1420	-21000	-1590
9	-6450	-23300	-22800	-1340	-24900	10100	-1150	1450	-14800	3520	-21100	-3350
10	-6470	-21000	-19800	-25400	-18900	21300	4300	15500	1140	6890	-22100	-3550
11	-15200	-25500	-11000	-29200	-12000	9590	-851	-51	1240	269	-25900	-3630
12	-5230	-28400	-3780	-34500	-15400	-4980	4780	3540	8830	337	-15200	-7360
13	-11200	-20900	-1730	-30400	-17000	-10600	10200	7320	6920	-1010	-2130	-3840
14	-18400	-13600	-9150	-28100	-19800	-15700	4350	6710	2480	935	-9440	-2430
15	-22900	-22100	-8850	-25700	-10200	-11800	3830	15400	2550	4240	-15500	-1050
16	-23900	-4280	-14900	-10400	17100	-11100	5930	18700	296	3590	-13900	-7830
17	-25700	-19700	-22700	-431	21000	-15800	3300	6240	3080	6990	-4940	-6330
18	-28700	-18600	-23700	-6590	12100	-22000	-2590	8400	8510	776	-4450	-17900
19	-27400	-17200	-25000	-11100	-2710	-25800	8620	28000	3020	-3550	1380	-25200
20	-26900	-12200	-30700	551	-13000	-23800	3190	11800	4650	-690	4630	-22400
21	-25200	-7190	-26200	2360	-12000	-16300	11800	1900	6810	13600	2570	-19500
22	-18400	-23200	-17500	2970	-11900	-17100	10100	921	7010	3540	1620	-18700
23	-10000	-26900	-12900	-3010	-7240	-14100	5780	13300	-3110	741	-3760	-16700
24	-19600	-16400	-5050	-12200	-6340	-7440	4670	30600	3330	-1290	-6220	-12400
25	-18200	4280	-1650	-21500	-5780	-9230	-4670	30400	4470	5590	-4390	-22300
26	-18200	1440	-4200	-25100	-1380	-2460	274	25700	-4370	6040	-6170	-24300
27	-17100	-2790	-13200	-26500	-7170	-6300	11200	23800	-1010	6580	-930	-23900
28	-18700	-5920	-8910	-27000	-15000	-2490	119	23100	-1490	1940	355	-22800
29	-19100	-4180	-4870	-28500	---	-4510	720	33600	4770	6900	-11000	-23600
30	-15200	-15900	-2090	-30400	---	-4220	1670	20900	2640	195	-2320	-18700
31	-18600	---	-100	-33900	---	-1430	---	14300	---	-4110	-3790	---
TOTAL	-546450	-469740	-458780	-409649	-337320	-361810	82854	358283	-16631	25655	-243340	-319581
MEAN	-17630	-15660	-14800	-13210	-12050	-11670	2762	11560	-554	828	-7850	-10650
MAX	-5230	4280	-100	14100	21000	21300	11800	33600	8830	13600	4630	4100
MIN	-28700	-28400	-30700	-34500	-33300	-29400	-4670	-2880	-30300	-13100	-25900	-25200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1995, BY WATER YEAR (WY)

MEAN	-8055	-10700	-10160	-7639	-8730	-6659	-1205	-5514	-5354	-7433	-7869	-6789
MAX	4584	3266	6337	19250	3980	8049	9814	11560	6507	4620	5562	1523
(WY)	1982	1982	1979	1991	1989	1989	1972	1995	1981	1966	1966	1966
MIN	-24200	-30180	-25820	-23210	-24390	-21560	-10380	-24140	-19220	-18440	-16570	-22440
(WY)	1976	1993	1972	1984	1987	1990	1991	1991	1991	1975	1979	1989

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1966 - 1995

ANNUAL TOTAL	-3650051	-2696509										
ANNUAL MEAN	-10000	-7388								-7296		
HIGHEST ANNUAL MEAN										-849		1988
LOWEST ANNUAL MEAN										-13190		1990
HIGHEST DAILY MEAN	45500	Apr 13				33600	May 29			68300	Feb 23	1989
LOWEST DAILY MEAN	-38800	Jul 31				-34500	Jan 12			-48000	May 28	1974
ANNUAL SEVEN-DAY MINIMUM	-32100	Jul 30				-30100	Jan 27			-39200	Oct 10	1975
INSTANTANEOUS PEAK STAGE						62.68	May 31			70.34	May 11	1984
10 PERCENT EXCEEDS	8160					6910				6290		
50 PERCENT EXCEEDS	-11600					-5230				-6930		
90 PERCENT EXCEEDS	-25300					-24800				-22600		

CUMBERLAND RIVER BASIN

03438220 CUMBERLAND RIVER NEAR GRAND RIVERS, KY

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

DRAINAGE AREA.--17,598 mi².

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

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

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

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

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

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

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26400	26900	50600	10200	48800	41700	6540	12000	38500	10100	22500	16000
2	26100	26500	50400	10800	45800	42600	6390	10500	38000	9990	29600	12600
3	26000	26200	50500	13800	45000	42300	6500	19100	52000	10700	29700	13000
4	26100	26400	50500	12300	44100	42200	8780	21300	63800	10100	30100	12100
5	25900	18100	50400	13100	43900	41600	8560	22300	62700	21600	16100	11100
6	14000	18400	49800	12500	33900	41000	7690	12600	49500	31500	21100	16100
7	26600	18600	49900	27800	38100	40700	6270	6660	38000	26700	30100	16300
8	26500	25700	49300	58800	37900	59500	5530	12800	38100	16000	32200	15900
9	15800	31900	49200	58800	31600	91900	5930	11600	38400	15200	35600	16300
10	20100	33300	49200	57400	29900	94200	5630	10900	25300	10800	37100	15200
11	26300	36300	49000	56500	25800	94700	5770	31600	24800	9490	34900	14100
12	10600	35600	49200	56300	24100	97300	5590	33600	12500	10100	33000	14100
13	25400	32800	48700	57000	22500	87600	6160	20000	12700	15800	32600	15100
14	38400	32800	51500	57700	26500	66800	6470	22300	11700	16600	30900	14200
15	39100	31900	52700	58500	32700	60200	5290	45300	11500	12900	31400	14400
16	39200	5730	53400	62100	44000	61000	5340	54700	12000	14600	32600	22100
17	38400	37800	54400	65500	51700	60200	5310	55600	5930	10400	29800	23500
18	39000	38600	55300	65000	53200	60500	4200	55400	6680	8610	29000	34500
19	38500	36700	56200	65000	53800	59700	5500	77100	6120	11500	17400	32500
20	39000	22400	56300	58900	53000	48000	4700	101000	10900	12200	17100	32400
21	39100	36800	43400	52000	53700	40700	4230	107000	8330	5450	14500	32700
22	26600	37900	33000	52100	53000	41100	6500	75400	10800	10000	15700	33000
23	20300	37500	33500	52100	53900	41800	6660	27600	19400	8760	19500	22400
24	26200	9530	21300	53200	51100	41000	9800	6300	7870	8540	19700	22700
25	26000	8590	19300	52500	45600	24300	17400	6340	7330	11000	19100	32900
26	26200	6200	19500	53000	47000	21600	17200	6400	17600	11900	16300	35300
27	26000	6120	20500	51300	42700	21800	14700	6320	19400	19600	15300	37000
28	26400	43600	18800	53700	40900	18200	14800	2100	18400	20100	15000	34600
29	26500	51600	19400	54200	---	10400	7180	1290	10100	12700	14600	27700
30	26800	50700	18500	54200	---	9170	7410	12700	9340	18900	15100	20300
31	26700	---	10000	49600	---	10100	---	32600	---	19000	15800	---
TOTAL	864200	851170	1283700	1455900	1174200	1513870	228030	920410	687700	430840	753400	660100
MEAN	27880	28370	41410	46960	41940	48830	7601	29690	22920	13900	24300	22000
MAX	39200	51600	56300	65500	53900	97300	17400	107000	63800	31500	37100	37000
MIN	10600	5730	10000	10200	22500	9170	4200	1290	5930	5450	14500	11100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1995, BY WATER YEAR (WY)

MEAN	21530	30720	49390	55340	56370	53650	40500	38360	28460	25500	24910	21140
MAX	55260	62960	97370	114400	104700	118300	120900	99410	63640	57470	39380	53030
(WY)	1990	1980	1973	1974	1994	1975	1994	1984	1973	1989	1979	1979
MIN	6085	7718	8592	6245	23010	14450	4744	4965	6139	5759	7780	6398
(WY)	1966	1966	1981	1981	1977	1981	1986	1988	1988	1988	1988	198

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1966 - 1995
ANNUAL TOTAL	19811850	10823520	
ANNUAL MEAN	54280	29650	37090
HIGHEST ANNUAL MEAN			56740
LOWEST ANNUAL MEAN			14900
HIGHEST DAILY MEAN	155000	Mar 30	107000
LOWEST DAILY MEAN	5730	Nov 16	1290
ANNUAL SEVEN-DAY MINIMUM	15000	May 22	4940
INSTANTANEOUS PEAK FLOW			209000
INSTANTANEOUS PEAK STAGE		37.36	May 21
10 PERCENT EXCEEDS	118000	54900	67000
50 PERCENT EXCEEDS	40900	26200	31500
90 PERCENT EXCEEDS	19400	7380	8010

TENNESSEE RIVER BASIN

03610200 CLARKS RIVER AT ALMO, KY

LOCATION.--Lat 36°41'30", long 88°16'25", Calloway County, Hydrologic Unit 06040006, on left bank at downstream side of bridge on State Highway 464, 0.3 mi southeast of Almo, 5.1 mi upstream from Rockhouse Creek, and at mile 53.5.

DRAINAGE AREA.--134 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 413.46 ft above sea level.

REMARKS.--Estimated daily discharges: Nov. 23, 24, Nov. 30 to Dec. 2, Dec. 11-14, 18-20, 25-28, Jan. 1-10, 20-26, 30, 31, Feb. 5-20, Mar. 8-11 and May 1-3. Records fair except for periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	11	38	25	45	35	22	560	31	22	15	5.4
2	5.0	11	32	19	43	32	23	500	29	17	14	5.1
3	5.2	12	28	18	40	31	22	200	144	16	14	4.9
4	5.6	12	36	16	35	30	22	116	44	29	15	4.6
5	5.2	30	36	14	30	69	20	82	29	57	3530	5.0
6	5.8	54	29	535	29	155	22	60	56	27	3180	5.5
7	5.5	24	26	1900	28	201	22	49	151	22	159	5.1
8	5.3	15	22	550	28	100	22	41	43	19	338	5.5
9	16	16	214	130	27	260	21	38	29	19	261	6.1
10	7.5	68	3770	82	26	150	21	32	28	19	310	4.9
11	5.1	31	1300	102	25	100	24	30	28	16	3030	6.5
12	9.5	19	400	124	25	77	26	28	36	16	289	5.9
13	63	16	180	89	24	69	26	27	26	16	123	6.1
14	17	16	90	1750	120	56	25	164	22	15	77	5.8
15	10	16	75	416	500	52	24	98	21	14	78	5.5
16	8.0	16	161	195	800	45	23	263	20	14	51	9.9
17	7.2	16	330	126	500	40	24	137	18	15	34	8.9
18	12	15	160	102	300	37	29	1620	16	15	27	5.9
19	27	15	78	1010	200	34	28	933	16	16	20	5.6
20	13	18	60	450	140	34	592	285	19	16	16	5.6
21	11	85	42	240	98	32	408	156	172	23	15	5.5
22	43	36	45	170	77	30	109	107	26	32	13	5.9
23	17	25	55	120	67	30	87	82	21	62	11	5.6
24	12	22	43	85	53	27	116	65	103	82	8.8	5.2
25	11	23	35	68	44	26	61	53	30	333	8.1	5.0
26	10	21	30	58	42	25	40	45	21	41	7.9	5.9
27	10	836	28	54	42	34	32	103	18	101	6.4	6.6
28	11	1050	26	68	39	29	30	89	17	26	5.9	7.6
29	11	115	24	65	---	25	26	57	50	18	5.9	9.2
30	10	60	20	54	---	23	156	39	90	15	5.2	7.5
31	10	---	22	48	---	24	---	33	---	15	5.3	---
TOTAL	394.0	2704	7435	8683	3427	1912	2103	6092	1354	1148	11673.5	181.8
MEAN	12.7	90.1	240	280	122	61.7	70.1	197	45.1	37.0	377	6.06
MAX	63	1050	3770	1900	800	260	592	1620	172	333	3530	9.9
MIN	5.0	11	20	14	24	23	20	27	16	14	5.2	4.6
CFSM	.09	.67	1.79	2.09	.91	.46	.52	1.47	.34	.28	2.81	.05
IN.	.11	.75	2.06	2.41	.95	.53	.58	1.69	.38	.32	3.24	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1995, BY WATER YEAR (WY)

	MEAN	52.7	192	401	235	498	236	233	212	80.5	60.6	47.9	14.9
MAX	205	684	1065	550	1693	576	623	925	243	264	377	36.0	
(WY)	1986	1989	1983	1988	1989	1984	1983	1983	1989	1989	1995	1990	
MIN	2.96	23.1	43.6	27.4	109	61.7	21.6	12.4	3.88	4.95	2.40	2.36	
(WY)	1988	1988	1993	1987	1983	1995	1986	1988	1988	1986	1983	1983	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1983 - 1995

ANNUAL TOTAL	75553.2	47107.3	
ANNUAL MEAN	207	129	187
HIGHEST ANNUAL MEAN			367
LOWEST ANNUAL MEAN			69.8
HIGHEST DAILY MEAN	5620	Mar 27	3770
LOWEST DAILY MEAN	4.5	Sep 11	4.6
ANNUAL SEVEN-DAY MINIMUM	4.8	Sep 10	5.1
INSTANTANEOUS PEAK FLOW			6260
INSTANTANEOUS PEAK STAGE			14.76
ANNUAL RUNOFF (CFSM)	1.54		.96
ANNUAL RUNOFF (INCHES)	20.97		13.08
10 PERCENT EXCEEDS	421		206
50 PERCENT EXCEEDS	36		29
90 PERCENT EXCEEDS	6.1		6.3

MASSAC CREEK BASIN

03611260 MASSAC CREEK NEAR PADUCAH, KY

LOCATION.--Lat 37°02'29", long 88°42'39", McCracken County, Hydrologic Unit 05140206, on left upstream wingwall of bridge on U.S. Highway 62, 1.2 mi upstream from Middle Fork, 6.9 mi west of post office in Paducah, and at mile 8.3.

DRAINAGE AREA.--14.6 mi².

PERIOD OF RECORD.--October 1971 to current year.

REVISED RECORDS.--1983 (M), 1984 (M).

GAGE.--Water-stage recorder. Datum of gage is 345.53 ft above sea level.

REMARKS.--Estimated daily discharges: Feb. 6-10, Mar. 2-9, Apr. 20-21, Mar. 1, 18, and Aug. 5. Records fair except for periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.56	.89	2.5	2.7	5.1	3.1	3.1	316	1.6	1.6	1.0	.66
2	.59	.89	2.3	2.4	4.4	2.6	3.1	40	1.5	1.4	.98	.67
3	.61	.89	2.3	2.4	4.1	2.4	3.2	14	1.4	1.4	.96	.67
4	.57	1.0	2.3	2.3	3.9	2.0	3.1	9.8	1.3	1.5	1.8	.68
5	.57	10	2.3	2.3	3.5	53	2.9	6.5	1.2	1.9	309	.68
6	.59	2.5	2.1	51	3.3	33	3.0	4.4	1.2	1.3	20	.68
7	.62	.96	2.1	23	3.5	68	2.9	3.5	1.2	1.2	5.5	.68
8	.88	.88	2.0	7.0	3.3	30	2.8	2.9	1.1	1.2	24	.72
9	1.1	1.5	223	4.9	3.4	17	2.8	2.8	1.0	1.2	4.5	.75
10	.60	1.4	216	4.2	3.5	11	2.8	2.0	.97	1.1	2.2	.72
11	.61	.97	29	12	3.3	8.4	2.9	1.8	1.4	1.0	1.8	.73
12	1.0	.91	11	7.2	2.9	7.2	2.8	1.7	1.5	1.0	1.6	.74
13	1.5	.89	6.4	10	2.9	6.5	2.7	1.7	.98	.91	1.5	.77
14	.80	.91	5.0	191	83	5.5	2.7	2.4	.89	.87	1.3	.79
15	.74	3.9	4.3	26	461	4.6	2.7	1.4	.86	.83	1.3	.74
16	.69	5.8	38	13	232	4.4	2.7	3.8	.83	.80	1.2	6.0
17	.72	1.6	20	39	41	4.1	2.8	1.9	.79	.79	1.0	.71
18	.93	1.2	7.2	174	25	4.2	2.7	131	.75	.76	.91	.62
19	13	1.0	4.8	227	17	3.9	2.6	15	.77	.76	.92	.62
20	.89	1.1	4.3	40	12	4.3	128	5.8	.97	1.0	.87	.64
21	.66	15	3.9	19	7.4	4.0	118	4.0	33	1.1	.85	.64
22	.84	1.6	4.2	11	6.0	3.9	14	3.3	1.2	18	.83	.62
23	.76	1.2	3.6	7.4	5.1	3.8	86	2.7	7.9	13	.83	.62
24	.78	1.1	3.3	5.5	3.6	3.7	32	2.4	1.5	10	.80	.63
25	.81	1.1	3.1	5.1	3.3	3.5	12	2.4	39	16	.75	.70
26	.82	1.1	2.9	4.5	3.0	3.5	7.2	8.4	22	5.7	.75	.71
27	.79	97	2.8	5.6	6.2	4.3	4.9	19	2.2	1.6	.73	.68
28	.82	14	2.7	51	4.5	3.4	3.4	3.3	1.5	4.1	.78	.68
29	.89	3.8	2.7	16	---	3.3	3.0	2.1	37	1.7	.67	.68
30	.89	2.8	2.7	7.6	---	3.2	6.0	1.8	2.4	1.2	.67	.69
31	.90	---	2.8	5.7	---	3.1	---	1.6	---	1.1	.68	---
TOTAL	36.53	177.89	621.6	979.8	957.2	314.9	468.8	619.4	169.91	96.02	390.68	25.92
MEAN	1.18	5.93	20.1	31.6	34.2	10.2	15.6	20.0	5.66	3.10	12.6	.86
MAX	13	97	223	227	461	68	128	316	39	18	309	6.0
MIN	.56	.88	2.0	2.3	2.9	2.0	2.6	1.4	.75	.76	.67	.62
CFSM	.08	.41	1.37	2.16	2.34	.70	1.07	1.37	.39	.21	.86	.06
IN.	.09	.45	1.58	2.50	2.44	.80	1.19	1.58	.43	.24	1.00	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1995, BY WATER YEAR (WY)

MEAN	3.23	14.3	29.2	22.1	39.0	30.0	32.2	16.8	7.46	8.88	2.99	4.38
MAX	19.4	41.6	105	48.1	160	103	121	58.8	33.9	37.3	13.9	50.1
(WY)	1986	1989	1983	1974	1989	1975	1973	1983	1975	1983	1982	1985
MIN	.25	.37	.71	.58	4.19	8.36	2.14	1.17	.32	.37	.30	.23
(WY)	1982	1972	1977	1977	1977	1987	1986	1992	1972	1974	1980	1976

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1972 - 1995

ANNUAL TOTAL	5219.04	4858.65	
ANNUAL MEAN	14.3	13.3	17.4
HIGHEST ANNUAL MEAN			37.9
LOWEST ANNUAL MEAN			6.53
HIGHEST DAILY MEAN	417	Jan 25	461
LOWEST DAILY MEAN	.56	Oct 1	.56
ANNUAL SEVEN-DAY MINIMUM	.58	Sep 29	.59
INSTANTANEOUS PEAK FLOW			1130
INSTANTANEOUS PEAK STAGE			9.75
INSTANTANEOUS LOW FLOW			.06
ANNUAL RUNOFF (CFSM)	.98	.91	1.19
ANNUAL RUNOFF (INCHES)	13.30	12.38	16.21
10 PERCENT EXCEEDS	27	21	29
50 PERCENT EXCEEDS	2.0	2.5	2.2
90 PERCENT EXCEEDS	.66	.72	.40

OHIO RIVER MAIN STEM

03611500 OHIO RIVER AT METROPOLIS, IL

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

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

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

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

REMARKS.--Estimated daily discharges: Jan. 2-7. Records fair except those below 100,000 ft³/s and for periods of estimated record, which are poor. Flow regulated by many dams and reservoirs. Maximum daily discharge includes overflow through Bay Creek and Cache River Valleys. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113000	102000	274000	104000	351000	309000	132000	247000	741000	186000	120000	82100
2	106000	98400	282000	100000	340000	291000	133000	256000	689000	196000	111000	82200
3	113000	110000	274000	93500	304000	285000	131000	260000	640000	200000	115000	74600
4	119000	141000	256000	96700	276000	301000	116000	273000	595000	195000	124000	70000
5	122000	146000	239000	105000	265000	323000	103000	297000	552000	213000	117000	70200
6	114000	137000	272000	120000	263000	352000	106000	303000	507000	232000	139000	72600
7	117000	115000	287000	153000	264000	399000	107000	304000	465000	203000	206000	76400
8	105000	131000	297000	206000	270000	453000	109000	289000	449000	168000	238000	68100
9	78600	140000	332000	243000	265000	549000	114000	268000	427000	141000	272000	75200
10	91400	150000	351000	286000	223000	663000	120000	261000	380000	136000	299000	83300
11	96400	170000	385000	312000	190000	721000	126000	281000	334000	119000	312000	70300
12	80400	174000	401000	314000	185000	759000	129000	299000	315000	131000	302000	69700
13	89000	161000	443000	297000	175000	777000	140000	305000	307000	112000	289000	69500
14	111000	139000	474000	294000	159000	752000	167000	333000	305000	119000	266000	67200
15	110000	144000	482000	297000	188000	741000	168000	396000	315000	113000	245000	81900
16	116000	146000	460000	312000	256000	732000	183000	442000	331000	99400	202000	95100
17	130000	146000	385000	420000	381000	709000	189000	491000	327000	93600	165000	82500
18	128000	166000	342000	503000	476000	652000	191000	552000	295000	103000	139000	112000
19	127000	153000	296000	598000	521000	571000	185000	596000	211000	102000	139000	124000
20	130000	117000	274000	649000	555000	486000	175000	675000	180000	107000	98600	97300
21	134000	115000	253000	672000	588000	374000	218000	756000	175000	106000	118000	110000
22	130000	132000	227000	689000	626000	309000	244000	792000	169000	81800	113000	118000
23	117000	135000	210000	694000	633000	278000	271000	786000	175000	79200	120000	101000
24	104000	123000	177000	671000	598000	252000	315000	766000	146000	91000	109000	88200
25	116000	115000	149000	626000	519000	224000	327000	789000	154000	94300	93000	105000
26	117000	113000	151000	583000	464000	197000	332000	808000	166000	94400	86700	116000
27	113000	112000	151000	540000	412000	197000	334000	821000	179000	104000	87900	109000
28	112000	149000	135000	485000	345000	196000	332000	818000	180000	108000	88700	111000
29	116000	194000	123000	425000	---	181000	296000	798000	171000	118000	74600	95600
30	113000	243000	118000	373000	---	149000	259000	784000	173000	132000	88300	80100
31	107000	---	105000	358000	---	133000	---	767000	---	145000	93400	---
TOTAL	3475800	4217400	8605000	11619200	10092000	13315000	5752000	15813000	10053000	4122700	4971200	2658100
MEAN	112100	140600	277600	374800	360400	429500	191700	510100	335100	133000	160400	88600
MAX	134000	243000	482000	694000	633000	777000	334000	821000	741000	232000	312000	124000
MIN	78600	98400	105000	93500	159000	133000	103000	247000	146000	79200	74600	67200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1995, BY WATER YEAR (WY)

MEAN	101800	163600	290300	397900	468300	521800	462600	330900	209500	151500	120900	99420
MAX	335600	450300	717500	1022000	1217000	967300	896400	917800	492800	441200	331100	383500
(WY)	1980	1986	1973	1937	1937	1945	1994	1983	1928	1928	1958	1979
MIN	22710	33400	48610	71650	77370	154700	129900	75180	53840	23350	25390	29330
(WY)	1931	1931	1931	1940	1934	1941	1986	1941	1936	1930	1930	1930

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1928 - 1995	
ANNUAL TOTAL	131696500		94694400			
ANNUAL MEAN	360800		259400		274800	
HIGHEST ANNUAL MEAN					436600	
LOWEST ANNUAL MEAN					120300	
HIGHEST DAILY MEAN	965000	Apr 24	821000	May 27	1850000	Feb 1 1937
LOWEST DAILY MEAN	60000	Sep 25	67200	Sep 14	15000	Jul 20 1930
ANNUAL SEVEN-DAY MINIMUM	85600	Sep 20	71900	Sep 8	16600	Jul 20 1930
INSTANTANEOUS PEAK FLOW			829000	May 27	1850000	Feb 1 1937
INSTANTANEOUS PEAK STAGE			53.54	May 27	66.60	Feb 2 1937
10 PERCENT EXCEEDS	861000		591000		635000	
50 PERCENT EXCEEDS	191000		185000		188000	
90 PERCENT EXCEEDS	111000		94800		67100	

BAYOU CREEK BASIN

03611800 BAYOU CREEK NEAR HEATH, KY

LOCATION.--Lat 37°05'58", long 88°49'27", McCracken County, Hydrologic Unit 05140206, on left downstream wingwall of bridge on Dyke Road, 1.0 mi southwest of Paducah Gaseous Diffusion Plant, 2.0 mi northwest of Heath, 3.0 mi upstream from Brushy Creek, and at mile 7.3.

DRAINAGE AREA.--6.55 mi².

PERIOD OF RECORD.--October 1990 to November 1991, June 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 366.06 ft above sea level (levels by U.S. Department of Energy).

REMARKS.--Estimated daily discharges: Feb. 7-11. Records fair except for period of estimated record, which is poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	.33	.13	.15	1.4	.94	.26	160	.53	.79	.08	.18
2	.13	.33	.12	.12	1.1	.62	.23	8.8	.42	.36	.09	.17
3	.13	.34	.13	.12	.94	.63	.20	3.7	.29	.40	.11	.30
4	.13	.51	.14	.11	.97	.59	.23	2.6	.17	6.8	10	.28
5	.14	1.9	.15	.10	.68	24	.23	1.9	.14	5.8	147	.26
6	.15	1.8	.12	3.7	.46	12	.27	1.4	.22	1.3	2.6	.28
7	.15	.28	.17	3.0	.42	35	.22	1.1	.20	.60	.86	.27
8	.23	.16	.22	1.1	.40	8.5	.20	.88	.25	.33	.80	.32
9	.38	.31	47	.64	.30	3.8	.16	34	.56	.24	.45	.28
10	.19	.36	48	.41	.38	2.6	.15	3.1	.44	.19	.36	.29
11	.19	.29	3.8	.45	.44	2.0	.23	1.6	1.0	.15	.33	.23
12	.40	.33	1.3	.38	.42	1.6	.19	1.3	1.3	.14	.33	.27
13	.43	.31	.72	1.5	.27	1.3	.11	2.9	.23	.13	.34	.25
14	.23	.35	.38	44	48	1.1	.10	1.7	.15	.14	.35	.24
15	.22	1.3	.25	3.4	167	.88	.11	.83	.12	.13	.34	.24
16	.21	2.1	2.2	1.5	78	.66	.10	9.3	.13	.15	.30	.92
17	.18	.58	2.3	13	7.5	.52	.10	2.9	.09	.15	.30	.36
18	.24	.26	.88	87	4.2	.42	.10	165	.10	.17	.28	.18
19	4.2	.13	.38	44	3.1	.34	.08	9.1	.11	.15	.23	.17
20	.38	.24	.29	6.7	2.3	.47	102	2.7	.18	.15	.25	.24
21	.11	4.8	.19	3.0	1.8	.36	37	1.3	20	.20	.28	.22
22	.19	.34	.21	1.7	1.4	.30	3.3	.72	.79	.24	.25	.25
23	.17	.12	.20	1.3	1.3	.26	30	.31	69	1.3	.25	.24
24	.20	.11	.15	.90	.93	.20	8.0	.12	5.7	1.8	.29	.26
25	.19	.14	.15	.78	.71	.15	3.2	.07	6.4	11	.33	.28
26	.28	.15	.14	.63	.93	.15	1.8	13	6.9	.59	.27	.31
27	.24	3.7	.13	.89	.99	.49	1.3	75	1.1	.21	.25	.33
28	.30	1.5	.13	44	1.4	.31	.97	3.1	.38	.13	.21	.34
29	.25	.34	.12	5.8	---	.27	.73	1.5	24	.11	.19	.29
30	.25	.18	.12	2.6	---	.24	1.2	1.1	2.1	.09	.18	.29
31	.26	---	.14	1.7	---	.23	---	.62	---	.08	.18	---
TOTAL	10.87	23.59	110.36	274.68	327.74	100.93	192.77	511.65	143.00	34.02	168.08	8.54
MEAN	.35	.79	3.56	8.86	11.7	3.26	6.43	16.5	4.77	1.10	5.42	.28
MAX	4.2	4.8	48	87	167	35	102	165	69	11	147	.92
MIN	.11	.11	.12	.10	.27	.15	.08	.07	.09	.08	.08	.17
CFSM	.05	.12	.54	1.35	1.79	.50	.98	2.52	.73	.17	.83	.04
IN.	.06	.13	.63	1.56	1.86	.57	1.09	2.91	.81	.19	.95	.05

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

MEAN	.77	4.24	16.4	11.9	13.4	8.17	9.31	10.1	2.37	.46	1.54	.76
MAX	1.72	14.9	37.2	13.6	15.6	11.3	16.6	16.5	4.77	1.10	5.42	2.11
(WY)	1991	1994	1991	1994	1991	1991	1994	1995	1995	1995	1995	1993
MIN	.35	.45	3.56	8.86	11.7	3.26	4.90	.56	.17	.089	.12	.28
(WY)	1995	1991	1995	1995	1995	1995	1991	1994	1994	1993	1993	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1991 - 1995	
ANNUAL TOTAL	1780.87		1906.23			
ANNUAL MEAN	4.88		5.22		6.65	
HIGHEST ANNUAL MEAN					8.28 1991	
LOWEST ANNUAL MEAN					5.22 1995	
HIGHEST DAILY MEAN	182	Jan 25	167	Feb 15	478	Dec 21 1990
LOWEST DAILY MEAN	.08	Jun 15	.07	May 25	.05	Sep 7 1991
ANNUAL SEVEN-DAY MINIMUM	.09	Jun 14	.10	Jul 28	.06	Jul 2 1993
INSTANTANEOUS PEAK FLOW			1140	May 18	1820	May 12 1991
INSTANTANEOUS PEAK STAGE			5.41	May 18	8.45	May 12 1991
ANNUAL RUNOFF (CFSM)	.74		.80		1.02	
ANNUAL RUNOFF (INCHES)	10.11		10.83		13.80	
10 PERCENT EXCEEDS	4.8		6.5		5.3	
50 PERCENT EXCEEDS	.29		.33		.36	
90 PERCENT EXCEEDS	.12		.13		.11	

BAYOU CREEK BASIN

03611850 BAYOU CREEK NEAR GRAHAMVILLE, KY

LOCATION.--Lat 37°08'41", long 88°49'38", McCracken County, Hydrologic Unit 05140206, near right bank on downstream side of bridge on State Highway 358, 750 ft downstream of Brushy Creek, 1.4 mi north of Paducah Gaseous Diffusion Plant, 3.6 mi northwest of Grahamville, and at mile 4.1.

DRAINAGE AREA.--14.9 mi².

PERIOD OF RECORD.--October 1990 to November 1991, June 1993 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 330 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 30 to Dec. 8, Jan. 3-5, 9-12, and Feb. 7-9. Records fair except for periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	13	9.2	12	9.3	11	6.6	290	6.4	8.9	7.3	5.9
2	7.8	12	8.8	11	8.1	11	6.5	32	7.6	8.0	6.0	5.8
3	7.9	14	8.6	10	7.3	9.4	6.2	14	7.3	8.3	6.0	5.1
4	10	20	8.2	9.0	7.3	8.3	9.1	12	6.7	24	23	6.8
5	9.1	36	7.8	8.0	6.8	63	10	10	7.2	27	309	7.5
6	7.9	20	7.4	30	6.4	36	9.4	10	7.6	9.6	12	6.5
7	4.9	12	8.0	23	6.2	100	9.0	9.5	6.3	8.4	6.2	6.0
8	8.5	15	10	12	6.0	30	9.7	9.2	8.2	8.2	5.7	6.0
9	11	23	168	10	5.8	15	9.9	79	8.8	7.5	5.1	6.0
10	8.2	23	160	9.0	6.0	12	10	12	7.4	7.3	5.2	5.5
11	8.1	20	22	8.0	6.2	11	14	9.7	12	5.7	4.6	5.4
12	14	19	11	9.0	6.2	9.6	13	9.0	9.2	5.4	5.8	5.5
13	14	17	9.7	16	6.2	8.5	12	29	5.7	5.0	6.2	5.6
14	9.5	16	7.5	138	43	8.2	12	12	5.6	5.3	6.0	6.3
15	7.9	25	6.8	15	415	8.3	13	9.5	5.5	4.1	5.6	6.3
16	7.5	23	14	9.1	234	7.9	14	21	5.3	4.4	4.0	18
17	7.6	8.0	11	31	29	7.6	15	13	5.2	5.3	5.1	7.7
18	9.1	6.2	7.7	216	18	7.5	16	283	5.6	4.8	7.1	6.8
19	31	7.8	7.1	129	14	7.0	16	33	5.6	4.4	8.8	6.5
20	9.1	5.5	5.6	28	11	8.2	169	13	6.4	4.5	8.3	6.1
21	8.6	20	5.4	15	10	7.7	169	10	104	5.1	8.1	5.8
22	9.4	6.6	5.7	12	10	7.7	21	8.8	8.6	7.6	6.5	5.6
23	9.2	7.9	7.8	9.8	10	7.5	116	6.2	208	16	7.1	5.6
24	9.6	7.2	7.8	9.0	9.1	6.8	35	5.5	37	12	7.2	5.8
25	10	7.9	6.6	8.4	8.2	6.1	19	5.1	20	32	7.0	5.8
26	9.7	9.6	6.6	7.8	8.6	6.3	15	9.7	31	9.5	7.0	5.9
27	9.2	28	6.8	8.5	10	11	14	157	10	8.8	7.0	8.8
28	9.2	15	10	130	10	8.7	12	14	7.2	8.7	6.9	8.3
29	9.8	10	11	22	---	8.3	11	11	104	8.2	6.0	7.8
30	9.7	9.4	11	13	---	7.3	12	8.7	12	8.1	6.2	6.9
31	11	---	11	10	---	6.7	---	7.1	---	7.9	6.1	---
TOTAL	306.7	457.1	588.1	978.6	927.7	463.6	804.4	1153.0	681.4	290.0	522.1	201.6
MEAN	9.89	15.2	19.0	31.6	33.1	15.0	26.8	37.2	22.7	9.35	16.8	6.72
MAX	31	36	168	216	415	100	169	290	208	32	309	18
MIN	4.9	5.5	5.4	7.8	5.8	6.1	6.2	5.1	5.2	4.1	4.0	5.1
CFSM	.66	1.02	1.27	2.12	2.22	1.00	1.80	2.50	1.52	.63	1.13	.45
IN.	.77	1.14	1.47	2.44	2.32	1.16	2.01	2.88	1.70	.72	1.30	.50

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

MEAN	7.98	16.2	35.1	34.4	34.3	24.4	28.3	24.2	14.4	7.40	9.32	7.96
MAX	9.89	36.2	60.7	39.2	37.9	30.6	41.0	37.2	22.7	9.35	16.8	12.6
(WY)	1995	1994	1991	1994	1991	1994	1994	1995	1995	1995	1995	1993
MIN	5.79	5.76	19.0	31.6	32.0	15.0	17.2	9.30	7.56	6.37	6.51	5.70
(WY)	1992	1991	1995	1995	1994	1995	1991	1994	1991	1994	1993	1991

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1991 - 1995	
ANNUAL TOTAL	6829.6		7374.3			
ANNUAL MEAN	18.7		20.2		20.4	
HIGHEST ANNUAL MEAN					20.8	
LOWEST ANNUAL MEAN					20.2	
HIGHEST DAILY MEAN	391	Jan 25	415	Feb 15	592	Dec 21 1990
LOWEST DAILY MEAN	2.0	Sep 3	4.0	Aug 16	2.0	Sep 3 1994
ANNUAL SEVEN-DAY MINIMUM	3.1	Sep 7	4.7	Jul 15	3.1	Sep 7 1994
INSTANTANEOUS PEAK FLOW			1220	Jun 23	1490	Nov 17 1993
INSTANTANEOUS PEAK STAGE			10.41	Jun 23	11.70	Nov 17 1993
ANNUAL RUNOFF (CFSM)	1.26		1.36		1.37	
ANNUAL RUNOFF (INCHES)	17.05		18.41		18.61	
10 PERCENT EXCEEDS	23		28		23	
50 PERCENT EXCEEDS	8.9		8.8		8.1	
90 PERCENT EXCEEDS	5.6		5.7		4.8	

BAYOU CREEK BASIN

03611900 LITTLE BAYOU CREEK NEAR GRAHAMVILLE, KY

LOCATION.--Lat 37°08'22", long 88°47'26", McCracken County, Hydrologic Unit 05140206, on left bank on reservation of Tennessee Valley Authority Shawnee Steam Plant, 30 ft upstream of bridge on unnamed county road, 1.1 mi southwest of Shawnee Steam Plant, 2.2 mi upstream from Bayou Creek, and 2.3 mi north of Grahamville.

DRAINAGE AREA.--5.78 mi².

PERIOD OF RECORD.--October 1990 to November 1991, June 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 324.80 ft above sea level (levels by U.S. Department of Energy).

REMARKS.--Estimated daily discharges: Jan. 3-5, Feb. 7-10 and May 23 to June 2. Records fair except for periods of estimated record, which are poor. Some regulation from Paducah Gaseous Diffusion Plant, 0.4 mi upstream. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.57	4.4	.56	.62	1.9	1.6	1.3	102	1.2	1.4	1.3	1.1
2	.58	4.8	.54	.61	1.6	1.6	1.1	16	1.1	1.2	1.1	1.1
3	.75	5.4	.55	.52	1.4	1.7	1.2	4.0	1.0	1.3	.95	1.1
4	.71	6.9	.56	.48	1.5	1.4	1.3	2.1	1.3	4.8	1.5	1.1
5	.70	10	.56	.42	1.4	20	1.2	1.7	1.3	5.5	69	1.1
6	.77	2.3	.56	5.0	1.2	16	1.2	1.4	1.3	1.5	3.3	1.1
7	.90	.74	.73	3.3	1.1	26	1.2	1.3	1.5	1.4	1.3	1.1
8	1.5	.97	.62	1.5	1.1	14	1.2	1.3	1.5	1.3	1.1	1.1
9	3.2	1.7	34	1.0	1.0	5.0	1.2	26	2.7	1.4	1.0	1.1
10	.96	1.9	42	.89	1.2	3.0	1.1	3.4	1.7	1.3	1.1	1.1
11	.86	1.5	7.2	.84	1.3	2.1	1.5	1.5	3.3	1.3	1.2	1.1
12	2.1	1.3	1.4	.85	.92	1.8	1.7	1.3	2.6	1.3	.92	1.1
13	4.2	1.2	1.0	.94	.92	1.5	1.2	11	1.5	1.3	.97	1.0
14	.97	1.4	.90	35	10	1.4	1.1	3.4	1.6	1.3	1.0	1.0
15	.85	5.7	.82	5.4	138	1.3	1.1	1.6	1.3	1.4	1.1	1.0
16	.92	4.2	3.4	1.9	81	1.2	1.1	5.5	1.3	1.4	1.0	6.3
17	.93	.91	2.3	5.8	13	1.2	1.2	4.1	1.3	1.4	1.0	.98
18	1.5	.78	1.0	63	5.7	1.1	1.4	106	1.3	1.7	1.0	.79
19	11	.68	.83	52	3.3	1.1	1.4	14	1.4	1.5	1.1	.78
20	.88	.73	.76	12	2.2	1.3	65	2.7	1.4	1.5	1.1	.79
21	.68	6.9	.71	4.7	1.7	1.3	96	1.4	17	1.7	1.0	.76
22	.76	.77	.71	2.4	1.3	1.1	5.3	1.0	1.8	1.6	1.0	.72
23	.89	.60	.67	1.7	1.4	1.1	31	.40	8.8	4.4	.98	.73
24	.78	.53	.65	1.5	2.0	1.1	15	.10	8.2	4.2	.99	.75
25	1.1	.51	.64	1.3	1.3	1.1	3.3	.02	1.8	9.1	1.0	.77
26	1.8	.50	.64	1.1	1.2	1.1	1.7	5.0	3.6	1.7	1.1	.77
27	2.1	5.6	.65	1.3	1.8	2.0	1.6	80	1.5	1.6	1.0	.78
28	1.8	1.6	.73	24	1.9	1.2	1.5	5.0	1.6	1.4	1.0	.80
29	2.1	.75	.84	9.1	---	1.1	1.4	3.0	18	1.4	1.1	.81
30	2.4	.60	.71	3.6	---	1.1	2.2	2.0	2.3	1.3	1.1	.81
31	3.1	---	.59	2.1	---	1.1	---	1.3	---	1.3	1.1	---
TOTAL	52.36	75.87	107.83	244.87	282.34	117.6	247.7	409.52	96.2	64.9	103.41	33.54
MEAN	1.69	2.53	3.48	7.90	10.1	3.79	8.26	13.2	3.21	2.09	3.34	1.12
MAX	11	10	42	63	138	26	96	106	18	9.1	69	6.3
MIN	.57	.50	.54	.42	.92	1.1	1.1	.02	1.0	1.2	.92	.72
CFSM	.	.29	.44	.60	1.37	1.74	.66	1.43	2.29	.55	.36	.58.19
IN.	34	.49	.69	1.58	1.82	.76	1.59	2.64	.62	.42	.67	.22

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

MEAN	2.03	5.33	15.1	13.0	12.7	8.43	11.0	7.71	2.28	1.28	1.64	1.70
MAX	3.11	16.0	33.5	17.9	17.0	12.0	19.2	13.2	3.69	2.09	3.34	2.98
(WY)	1991	1994	1991	1991	1991	1994	1994	1995	1993	1995	1995	1993
MIN	1.37	1.33	3.48	7.90	10.1	3.79	5.62	1.48	1.04	.82	.96	1.12
(WY)	1992	1992	1995	1995	1995	1995	1991	1994	1994	1991	1991	1995

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1991 - 1995

ANNUAL TOTAL	2096.40	1836.14		
ANNUAL MEAN	5.74	5.03	6.90	
HIGHEST ANNUAL MEAN			8.40	1991
LOWEST ANNUAL MEAN			5.03	1995
HIGHEST DAILY MEAN	139	Jan 25	292	Dec 21 1990
LOWEST DAILY MEAN	.50	Sep 30	.02	May 25 1995
ANNUAL SEVEN-DAY MINIMUM	.55	Sep 26	.56	Nov 30
INSTANTANEOUS PEAK FLOW			607	Apr 20
INSTANTANEOUS PEAK STAGE			7.48	Apr 20
ANNUAL RUNOFF (CFSM)	.99	.87	1.19	
ANNUAL RUNOFF (INCHES)	13.49	11.82	16.23	
10 PERCENT EXCEEDS	8.2	7.0	9.1	
50 PERCENT EXCEEDS	1.2	1.3	1.1	
90 PERCENT EXCEEDS	.72	.73	.68	

OHIO RIVER MAIN STEM

03612500 OHIO RIVER AT LOCK AND DAM 53, NEAR GRAND CHAIN, IL

(National stream-quality accounting network station)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°12'11", long 89°02'30", Pulaski County, Hydrologic Unit 05140206, at auxiliary gaging station, 0.5 mi upstream from Gar Creek, 3.0 mi southwest of Grand Chain, 18.1 mi downstream from gaging station at Metropolis, and at mile 962.2.

DRAINAGE AREA.--203,100 mi², approximately.

PERIOD OF RECORD.--Water years 1955 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1954 to September 1970, January 1973 to September 1990.

WATER TEMPERATURES: October 1954 to September 1970, January 1973 to September 1990.

REMARKS.--Records of daily discharge are published for station at Metropolis, IL, (station 03611500). Flow regulated by many days dams and reservoirs.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 693 microsiemens, Nov. 25, 1968; minimum daily, 170 microsiemens, Feb. 9, 1957, Jan. 21, 1973.

WATER TEMPERATURES: Maximum daily, 31.0°C, July 15, 1964, July 17-21, 25, 1977; minimum daily, 0.0°C, on several days during most winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 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 CaCO3)
OCT											
25...	1041	100000	168	6.7	18.0	7.0	8.1	--	58	23	86
DEC											
06...	1102	300000	270	7.7	11.5	14	10.5	96	46	110	96
FEB											
16...	1020	237000	250	7.2	3.0	53	12.8	94	770	K230	91
APR											
05...	1120	102000	335	7.2	12.5	5.8	10.4	97	K8	K4	140
JUN											
06...	1103	520000	293	7.2	23.0	21	6.4	75	K21	K26	130

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY WAT TOT FET FIELD (MG/L AS CaCO3)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO4)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)
OCT											
25...	24	6.3	11	2.1	--	12	27	0.10	5.6	123	0.040
DEC											
06...	28	6.4	12	2.6	48	14	36	0.10	4.9	155	0.020
FEB											
16...	27	5.8	8.9	2.0	--	12	24	0.10	4.9	148	0.010
APR											
05...	38	10	12	2.1	--	17	44	0.10	4.4	193	0.030
JUN											
06...	37	8.6	7.0	2.7	--	9.3	30	0.20	5.4	172	0.040

OHIO RIVER MAIN STEM

03612500 OHIO RIVER AT LOCK AND DAM 53, NEAR GRAND CHAIN, IL--Continued

(National stream-quality accounting network station)

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

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	
OCT											
25...	0.44	0.06	0.	0.06	0.07	0.04	40	26	<3	20	
DEC											
06...	0.62	0.07	0.3	0.10	0.05	0.05	90	26	<3	62	
FEB											
16...	0.86	0.06	0.4	0.08	0.08	0.04	--	--	--	--	
APR											
05...	1.20	0.02	0.5	0.05	0.04	0.03	<10	33	<3	13	
JUN											
06...	1.40	0.03	0.4	0.09	0.03	0.05	40	33	<3	54	
DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	NESE, DIS- SOLVED (UG/L AS MN)	DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	MANGA- NIUM, DIS- SOLVED (UG/L AS SE)	MOLYB- SILVER, DIS- SOLVED (UG/L AS AG)	SELE- TIUM, DIS- SOLVED (UG/L AS SR)	STRON- DIUM, DIS- SOLVED (UG/L AS V)	VANA- SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT											
25...	<4	9	20	<1	<1	<1.0	99	<6	17	--	90
DEC											
06...	6	3	<10	1	<1	<1.0	110	<6	24	19600	81
FEB											
16...	--	--	--	--	--	--	--	--	154	98700	96
APR											
05...	<4	3	<10	2	<1	<1.0	160	<6	--	--	--
JUN											
06...	<4	3	<10	2	<1	<1.0	130	<6	--	--	--

BAYOU DE CHIEN BASIN

07024000 BAYOU DE CHIEN NEAR CLINTON, KY

LOCATION.--Lat 36°37'43", long 88°57'50", Hickman County, Hydrologic Unit 08010201, on right bank at downstream side of bridge on U.S. Highway 51, 1.1 mi upstream from Cane Creek, 3.2 mi southeast of Clinton, and at mile 15.1.

DRAINAGE AREA.--68.7 mi².

PERIOD OF RECORD.--October 1939 to September 1950 (monthly discharge only for some periods, published in WSP 1311), October 1950 to September 1978, September 1984 to current year. Published as "Bayou du Chien near Clinton," October 1954 to September 1968.

REVISED RECORDS.--WSP 1311: 1940 (M), 1942-44 (M). WSP 1711: Drainage area. WDR-KY-89: 1985-89 (m).

GAGE.--Water-Stage recorder. Datum of gage is 307.71 ft above sea level. Prior to Aug. 2, 1951, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 1-3, 5-13, 29-31, Feb. 8-13, May 24 to June 2 and Aug. 11-23. Records fair except for periods of estimated record, which are poor. Minium flow affected by backwater from the Mississippi River. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	26	25	31	32	43	36	833	20	22	28	15
2	19	26	25	30	32	41	37	822	18	19	23	15
3	22	26	25	30	31	41	37	100	32	20	24	14
4	24	28	27	29	31	42	36	53	25	26	29	14
5	23	30	29	32	30	136	35	41	22	27	1150	14
6	22	32	27	336	28	127	35	37	30	22	1370	14
7	21	26	26	157	29	191	35	34	55	21	343	14
8	24	26	24	50	28	131	35	33	21	20	235	15
9	22	28	298	37	27	72	34	41	19	19	100	14
10	20	30	952	32	27	56	33	33	18	18	71	14
11	19	26	253	35	26	52	35	31	24	18	50	14
12	20	25	52	34	24	48	34	31	25	18	40	14
13	38	27	38	39	22	45	34	31	20	17	32	14
14	29	28	34	614	84	43	33	63	18	16	28	14
15	27	29	32	76	1170	42	33	55	17	16	26	14
16	26	30	43	41	1210	40	32	58	17	18	24	22
17	25	28	50	33	272	42	33	42	17	19	22	18
18	27	27	38	221	108	39	33	347	16	17	19	15
19	28	26	34	785	80	39	32	457	17	17	18	15
20	27	27	34	127	65	44	302	60	18	18	18	15
21	27	38	33	60	57	53	256	36	45	20	17	15
22	36	29	46	42	51	40	43	30	21	86	16	14
23	30	26	40	35	49	38	45	28	19	254	16	15
24	29	26	35	32	45	39	46	26	18	370	15	18
25	27	26	34	33	45	36	33	24	23	1030	15	17
26	26	26	33	32	45	37	28	22	32	452	15	18
27	26	63	32	35	48	46	26	40	21	62	16	15
28	26	70	32	39	47	39	25	33	19	341	16	15
29	25	31	31	35	---	37	30	28	227	300	16	14
30	26	27	31	33	---	36	233	24	39	44	16	15
31	27	---	31	32	---	36	---	22	---	31	15	---
TOTAL	788	913	2444	3177	3743	1751	1719	3515	913	3378	3823	454
MEAN	25.4	30.4	78.8	102	134	56.5	57.3	113	30.4	109	123	15.1
MAX	38	70	952	785	1210	191	302	833	227	1030	1370	22
MIN	19	25	24	29	22	36	25	22	16	16	15	14
CFSM	.37	.44	1.15	1.49	1.95	.82	.83	1.65	.44	1.59	1.80	.22
IN.	.43	.49	1.32	1.72	2.03	.95	.93	1.90	.49	1.83	2.07	.25

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

MEAN	32.6	82.2	130	156	189	214	139	99.8	66.5	58.0	40.8	34.3
MAX	165	520	557	586	672	1138	335	470	419	397	206	268
(WY)	1985	1958	1991	1950	1989	1975	1970	1978	1976	1976	1977	1977
MIN	7.27	9.41	12.1	12.7	16.2	14.2	18.6	12.1	11.7	10.7	9.43	8.74
(WY)	1944	1944	1944	1944	1941	1941	1986	1969	1952	1943	1953	1941

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1940 - 1995

ANNUAL TOTAL	28280	26618										
ANNUAL MEAN	77.5	72.9							103			
HIGHEST ANNUAL MEAN									268			1976
LOWEST ANNUAL MEAN									18.7			1941
HIGHEST DAILY MEAN	1290	Mar 28				1370	Aug 6		7150	Jan 2	1966	
LOWEST DAILY MEAN	15	Jul 26				14	Sep 3		4.0	May 29	1943	
ANNUAL SEVEN-DAY MINIMUM	15	Jul 26				14	Sep 9		4.7	Jun 20	1942	
INSTANTANEOUS PEAK FLOW						1500	Aug 6		9460	Jan 2	1966	
INSTANTANEOUS PEAK STAGE						14.01	Aug 6		16.39	Mar 12	1965	
ANNUAL RUNOFF (CFSM)	1.13					1.06			1.50			
ANNUAL RUNOFF (INCHES)	15.31					14.41			20.40			
10 PERCENT EXCEEDS	130					100			189			
50 PERCENT EXCEEDS	28					30			22			
90 PERCENT EXCEEDS	17					16			11			

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the U.S. Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. At a few of these stations crest stages are determined from continuous water-stage recorder graphs. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1995

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Dis- charge (ft ³ /s)
BIG SANDY RIVER BASIN							
03208000	Levisa Fork below Fishtrap Dam, near Millard, Ky.	Lat 37°25'33", long 82°24'45", Pike County, Hydrologic Unit 05070202, on right bank, 0.4 mi downstream from Fishtrap Dam, 1.1 mi upstream from Lower Pompey Branch, 1.9 mi northeast of Millard, 2.4 mi upstream from Russell Fork, and at mile 129.6.	392	1939-92†, 1993-95	02-16-95	81.26	6,090
03209300	Russell Fork at Elkhorn City, Ky.	Lat 37°18'14", long 82°20'35", Pike County, Hydrologic Unit 05070202, on left bank 10 ft downstream from steel highway bridge on abandoned section of State Highway 80, at Elkhorn City, 0.9 mi upstream from Elkhorn Creek, and at mile 13.2.	554	1957-60, 1961-92†, 1993-95	05-19-95	11.88	9,540

See footnote at end of table.

Annual maximum discharge at crest-stage partial-record stations during water year 1995--Continued

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (ft ³ /s)
BIG SANDY RIVER BASIN--Continued							
03211500	Johns Creek near Van Lear, Ky.	Lat 37°44'37", long 82°43'27", Floyd County, Hydrologic Unit 05070203, on right bank 100 ft upstream from Long Branch, 0.3 mi upstream from Daniels Creek, 0.7 mi downstream from Dewey Dam, 2.5 mi southeast of Van Lear, and at mile 4.7.	206	1940-92†, 1993-95	05-15-95	13.21	2,630
LITTLE SANDY RIVER BASIN							
03216350	Little Sandy River below Grayson Dam, near Leon, Ky.	Lat 38°15'14", long 82°59'28", Carter County, Hydrologic Unit 05090104, on right bank 0.3 mi downstream from Grayson Dam (new channel), 0.3 mi upstream from Big Sinking Creek, 2.4 mi southwest of Leon, and at mile 50.3.	196	1967-92†, 1993-95	01-17-95	98.80	2,780
CUMBERLAND RIVER BASIN							
03400500	Poor Fork at Cumberland, Ky.	Lat 36°58'26", long 82°59'38", Harlan County, Hydrologic Unit 05130101, at left upstream side of New York Avenue bridge at Cumberland, 250 ft upstream from Cloverlick Creek, 0.6 mi downstream from Looney Creek, and at river mile 718.8.	82.3	1941-92†, 1993-95	05-14-95	8.42	3,030
03404820	Laurel River at Municipal Dam, near Corbin, Ky.	Lat 36°58'13", long 84°07'11", Laurel County, Hydrologic Unit 05130101, on left bank adjacent to State Highway 709, 200 ft upstream from Corbin Municipal Dam, 0.1 mi upstream from Lynn Camp Creek, 2.0 mi northwest of Corbin, and at mile 21.4.	140	1974-92†, 1993-95	05-14-95	22.93	3,380

† Operated as a continuous-record gaging station.

Discharge measurements made at special study and miscellaneous sites during water year 1995

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
BIG SANDY RIVER BASIN						
03215495 Blaine Creek	Big Sandy River	Lat 38°07'43", long 82°41'47", Lawrence County, 0.2 mi downstream from Yatesville lake, 1.4 mi south of Yatesville, and at mile 18.1.	208	1994-95	07-21-94	a 16.6
					12-07-94	771
KENTUCKY RIVER BASIN						
03284750 Dix River	Kentucky River	Lat 37°27'27", long 84°28'41", Lincoln County, at bridge on unmarked road, 0.6 mi below Copper Creek, 0.8 mi above Flax Creek, 1.6 mi east of Crab Orchard, and at mile 72.6.	70.5	1973-76, 1988, 1994-95	1-31-95	73.4
03285003 Boone Creek	Dix River	Lat 37°39'10", long 84°38'50", Garrard County, at bridge on Papermill Road, at mile 0.38, and 4.0 mi west of Lancaster.	90.0	1995	2-16-95	282
					3-01-95	3.93
					3-13-95	18.3
					3-28-95	4.96
					4-10-95	1.53
					5-02-95	48.1
					6-13-95	5.47
7-26-95	.46					
03285004 Clear Creek	Dix River	Lat 37°39'28", long 84°40'03", Garrard County, at bridge on private drive, at mile 0.35, and 5.0 mi west of Lancaster.	2.56	1995	2-16-95	59.4
					3-01-95	1.59
					3-13-95	6.97
					3-28-95	1.12
					4-10-95	.48
					5-02-95	25.3
					6-13-95	5.37
7-26-95	.05					
03285300 Spears Creek	Dix River	Lat 37°40'11", long 84°46'00", Boyle County, at bridge on county road 33, 1.2 mi north of Danville, and at mile 2.88.	4.87	1995	2-15-95	33.7
					3-01-95	2.76
					3-13-95	11.1
					3-28-95	2.05
					4-10-95	.79
					5-02-95	14.5
					6-13-95	15.4
7-26-95	.73					
8-29-95	.02					

a Not previously published

Discharge measurements made at special study and miscellaneous sites during water year 1995--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
KENTUCKY RIVER BASIN						
03285350 Mocks Branch	Dix River	Lat 37°41'28", long 84°45'53" Boyle County, at culvert on county road 33 at mile 1.49, and 3.3 mi north of Danville.	16.3	1995	2-15-95	128
					3-01-95	6.38
					3-13-95	30.8
					3-28-95	5.87
					4-10-95	2.28
					5-02-95	32.7
					6-13-95	57.2
7-26-95	.26					
03285400 McKecknie Creek	Dix River	Lat 37°42'27", long 84°40'40", Garrard County, at bridge on county road 1355, 1.7 mi southwest of Bryantsville and at mile 2.70.	2.55	1995	2-16-95	43.5
					3-13-95	1.20
					5-02-95	3.75
					6-13-95	1.32
03285550 Cane Run	Dix River	Lat 37°44'59", long 84°45'19", Mercer County, at bridge on county road 152, and 0.5 mi east of Burgin, and at mile 4.37.	3.24	1995	2-15-95	72.8
					3-01-95	5.24
					3-13-95	21.4
					3-28-95	3.19
					4-10-95	1.89
					5-02-95	22.1
					6-13-95	22.7
					7-26-95	.18
8-29-95	.07					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS
 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)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
BIG SANDY RIVER BASIN									
03207965 GRAPEVINE CREEK NEAR PHYLLIS, KY (LAT 37 25 57N LONG 082 21 14W)									
OCT 1994					MAY 1995				
03...	1225	1.6	2640	17.0	31...	1345	2.5	1240	18.0
DEC					JUL				
13...	1435	3.1	1750	5.0	11...	1635	1.6	1950	26.0
JAN 1995					AUG				
31...	1520	10	548	7.0	22...	1400	1.2	236	24.0
APR									
04...	1410	2.9	1220	15.0					
03209500 LEVISA FORK AT PIKEVILLE, KY (LAT 37 27 51N LONG 082 31 35W)									
OCT 1994					JUN 1995				
03...	1520	312	540	19.5	01...	0900	714	492	19.5
DEC					JUL				
14...	1005	562	640	6.5	12...	0920	251	--	25.0
FEB 1995					AUG				
01...	0930	2820	365	4.5	23...	0830	183	621	25.5
APR									
05...	0940	486	540	11.5					
03210000 JOHNS CREEK NEAR META, KY (LAT 37 34 01N LONG 082 27 29W)									
OCT 1994					MAY 1995				
03...	1345	8.0	1160	18.0	31...	1540	27	792	19.5
DEC					JUL				
13...	1635	26	222	4.5	11...	1815	8.6	1030	25.0
JAN 1995					AUG				
31...	1705	120	340	6.0	22...	1555	7.7	960	25.5
APR									
04...	1545	28	665	15.0					
03212500 LEVISA FORK AT PAINTSVILLE, KY (LAT 37 48 55N LONG 082 47 30W)									
OCT 1994					JUL 1995				
05...	0815	389	640	8.5	13...	0930	394	617	25.5
APR 1995					AUG				
06...	1000	825	541	12.0	23...	1230	304	690	26.5
JUN									
02...	0940	1280	479	20.0					
LITTLE SANDY RIVER BASIN									
03216500 LITTLE SANDY RIVER AT GRAYSON, KY (LAT 38 19 48N LONG 082 56 22W)									
OCT 1994					MAY 1995				
05...	1550	32	256	14.5	09...	1115	474	159	14.0
DEC					JUN				
20...	1230	239	200	5.5	13...	1155	2070	188	18.0
JAN 1995					JUL				
31...	1415	1540	160	1.0	18...	1130	36	446	24.5
MAR					AUG				
01...	0930	1250	162	5.5	22...	1155	38	408	24.0
APR									
04...	1330	118	210	13.0					
TYGARTS CREEK BASIN									
03217000 TYGARTS CREEK NEAR GREENUP, KY (LAT 38 33 51N LONG 082 57 08W)									
OCT 1994					APR 1995				
21...	1435	6.8	292	16.0	05...	1215	71	237	10.5
NOV					MAY				
28...	1535	773	--	14.0	10...	1445	1800	207	15.0
DEC					JUN				
21...	1500	122	266	4.5	14...	1405	312	272	19.0
JAN 1995					JUL				
26...	1025	235	225	1.0	19...	1305	15	406	25.5
MAR					AUG				
10...	0840	1040	175	4.0	23...	1255	32	369	25.0
KINNICONICK CREEK BASIN									
03237250 KINNICONICK CREEK NEAR TANNERY, KY (LAT 38 32 36N LONG 083 13 29W)									
OCT 1994					MAY 1995				
12...	1155	0.83	147	14.0	11...	1025	1090	--	15.5
NOV					JUN				
28...	1255	265	1720	12.0	15...	1010	98	153	19.5
DEC					JUL				
21...	1255	100	112	4.5	20...	1100	3.6	189	26.0
JAN 1995					27...	1120	12	202	25.5
26...	1245	191	94	1.0	AUG				
MAR					23...	1020	11	211	25.5
10...	1105	730	82	4.5					
APR									
06...	1030	50	96	9.5					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS
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LICKING RIVER BASIN									
03248500 LICKING RIVER NEAR SALYERSVILLE, KY (LAT 37 45 03N LONG 083 05 04W)									
OCT 1994					JUN 1995				
04...	1815	10	565	22.5	01...	1400	82	446	18.5
DEC					JUL				
14...	1555	98	304	5.0	12...	1450	16	533	23.5
FEB 1995					AUG				
01...	1430	191	266	3.5	23...	1540	5.4	554	22.5
APR									
05...	1455	59	423	11.5					
03251200 NORTH FORK LICKING RIVER NEAR MT OLIVET, KY (LAT 38 35 41N LONG 084 01 13W)									
OCT 1994					MAY 1995				
13...	1415	0.52	320	12.5	11...	1350	526	--	15.5
DEC					JUN				
22...	1205	113	455	3.5	15...	1355	225	441	19.5
JAN 1995					JUL				
27...	0945	161	216	-0.5	20...	1405	1.3	735	25.0
MAR					AUG				
03...	1000	210	438	4.0	31...	1430	1.3	613	26.0
APR									
06...	1335	35	464	11.0					
03252300 HINKSTON CREEK NEAR CARLISLE, KY (LAT 38 14 33N LONG 084 03 09W)									
OCT 1994					MAR 1995				
11...	1305	0.62	522	13.5	23...	1155	74	390	13.0
NOV					APR				
23...	1130	4.9	515	7.5	24...	1155	1340	273	9.5
JAN 1995					JUN				
13...	1040	295	394	10.5	07...	1415	47	403	23.0
FEB					JUL				
22...	1440	127	403	5.5	14...	1130	4.8	445	26.0
03253500 LICKING RIVER AT CATAWBA, KY (LAT 38 42 31N LONG 084 18 38W)									
OCT 1994					MAR 1995				
14...	1025	299	228	16.0	03...	1245	4630	264	5.5
NOV					APR				
30...	0950	5210	347	8.0	07...	1100	495	246	14.0
DEC					JUN				
23...	0940	1580	348	2.0	16...	1045	3610	339	20.0
JAN 1995					AUG				
30...	1320	21000	219	2.5	24...	1215	171	452	26.5
KENTUCKY RIVER BASIN									
03277400 LEATHERWOOD CREEK AT DAISY, KY (LAT 37 06 48N LONG 083 05 33W)									
OCT 1994					MAY 1995				
14...	1345	5.7	480	16.0	19...	1043	878	76	14.0
DEC					JUN				
14...	1255	6.9	331	5.5	02...	0720	29	383	19.0
FEB 1995					JUL				
01...	1150	41	197	3.0	12...	0835	5.0	480	22.5
APR					AUG				
05...	0850	22	282	7.0	24...	0905	2.5	810	22.0
03280000 NORTH FORK KENTUCKY RIVER AT JACKSON, KY (LAT 37 32 46N LONG 083 22 21W)									
DEC 1994					MAY 1995				
14...	1520	556	572	4.5	18...	1213	5230	275	16.0
FEB 1995					JUL				
21...	0950	2010	355	6.5	11...	1240	177	956	25.0
APR					AUG				
04...	1400	628	583	14.0	23...	1410	162	968	26.0
03280700 CUTSHIN CREEK AT WOOTON, KY (LAT 37 09 54N LONG 083 18 29W)									
OCT 1994					JUN 1995				
05...	1110	1.8	625	15.0	02...	1015	34	405	20.0
DEC					JUL				
14...	1055	13	244	2.5	12...	1030	5.5	557	26.0
FEB 1995					AUG				
07...	1325	103	248	0.0	22...	1130	2.4	541	27.0
APR									
05...	1030	25	361	8.5					
03281000 MIDDLE FORK KENTUCKY RIVER AT TALLEGA, KY (LAT 37 33 18N LONG 083 35 38W)									
DEC 1994					JUN 1995				
15...	0815	239	411	5.5	01...	1340	222	163	18.0
FEB 1995					JUL				
27...	1055	523	178	7.5	11...	1030	69	298	23.5
APR					AUG				
04...	1200	124	190	13.0	23...	1225	48	320	25.5

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS
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KENTUCKY RIVER BASIN--Continued									
03281040 RED BIRD RIVER NEAR BIG CREEK, KY (LAT 37 10 43N LONG 083 35 35W)									
OCT 1994					MAY 1995				
13...	1040	8.2	410	14.0	15...	1033	1790	101	14.0
DEC 19...					16...	1004	858	130	14.5
19...	1020	35	272	5.5	30...	1025	109	264	18.5
FEB 1995					JUL				
09...	1325	155	180	0.5	14...	1130	13	428	26.5
APR 06...	1110	67	268	11.0	AUG 22...	1310	10	542	26.0
03281100 GOOSE CREEK AT MANCHESTER, KY (LAT 37 09 07N LONG 083 45 37W)									
OCT 1994					MAY 1995				
13...	1320	14	--	15.0	30...	1205	276	152	18.0
DEC 19...					JUL 13...	1125	12	391	24.5
19...	1150	60	216	6.0	AUG 24...	1140	3.8	475	25.0
FEB 1995									
21...	1325	312	165	6.5					
APR 06...	1235	65	230	13.0					
03281500 SOUTH FORK KENTUCKY RIVER AT BOONEVILLE, KY (LAT 37 28 45N LONG 083 40 38W)									
OCT 1994					JUN 1995				
27...	1205	44	--	12.0	01...	1125	490	170	19.5
DEC 15...					JUL 11...	0905	89	301	25.0
15...	1025	371	175	5.5	AUG 23...	1115	84	299	26.5
FEB 1995									
27...	1305	540	199	8.0					
APR 04...	1005	362	209	13.0					
03282040 STURGEON CREEK AT CRESSMONT, KY (LAT 37 30 02N LONG 083 48 37W)									
OCT 1994					MAY 1995				
04...	1055	0.60	201	14.5	31...	0830	31	164	17.5
DEC 20...					JUL 18...	1015	1.1	165	24.5
20...	1145	36	130	4.0	AUG 25...	1110	1.8	215	23.0
JAN 1995									
25...	1225	67	--	0.5					
APR 13...	1035	88	143	13.0					
03282500 RED RIVER NEAR HAZEL GREEN, KY (LAT 37 48 44N LONG 083 27 50W)									
OCT 1994					APR 1995				
06...	1505	0.59	--	18.0	03...	1410	25	157	12.5
NOV 21...					JUN 12...	1340	443	175	18.0
21...	1545	1.1	243	13.5	JUL 17...	1315	0.94	280	28.0
DEC 19...					AUG 21...	1340	0.73	329	28.0
19...	1515	19	180	5.0					
JAN 1995									
24...	1350	97	100	2.0					
FEB 28...									
28...	1410	215	132	8.5					
03283500 RED RIVER AT CLAY CITY, KY (LAT 37 51 53N LONG 083 56 01W)									
NOV 1994					MAY 1995				
21...	1310	24	319	13.0	08...	1030	522	110	--
DEC 19...					JUN 12...	1110	683	179	21.0
19...	1200	212	180	5.0	JUL 17...	1100	97	237	26.5
JAN 1995					AUG 21...	1105	143	329	28.0
31...	1000	806	105	1.0					
FEB 28...									
28...	1105	826	173	8.5					
APR 03...	1135	176	165	11.5					
03284000 KENTUCKY RIVER AT LOCK 10 NEAR WINCHESTER, KY (LAT 37 53 41N LONG 084 15 44W)									
OCT 1994					APR 1995				
11...	1035	379	434	18.5	25...	1335	25000	171	13.0
NOV 28...					JUN 05...	1520	2430	295	23.5
28...	1200	5920	580	12.0	JUL 11...	0900	762	334	28.0
FEB 1995									
23...	0945	7870	201	7.0					
03285000 DIX RIVER NEAR DANVILLE, KY (LAT 37 38 31N LONG 084 39 39W)									
OCT 1994					APR 1995				
07...	1300	2.9	204	18.0	26...	1150	672	265	13.5
NOV 22...					MAY 19...	1130	16800	143	17.0
22...	1130	8.8	373	11.5	JUN 08...	1135	136	307	24.5
JAN 1995					JUL 13...	1055	18	330	28.0
11...	1230	368	312	5.5	AUG 23...	1125	14	299	27.0
FEB 27...									
27...	1200	182	310	9.0					
MAR 22...	1255	289	291	14.5					

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KENTUCKY RIVER BASIN--Continued									
03285200 CLARKS RUN NEAR DANVILLE, KY (LAT 37 38 20N LONG 084 43 16W)									
OCT 1994					MAY 1995				
12...	1245	2.3	958	14.5	02...	1140	192	355	12.0
NOV					17...	1135	436	372	16.5
22...	1415	3.0	1400	10.5	17...	1220	725	372	16.5
JAN 1995					JUN				
11...	1415	40	520	8.5	08...	1340	21	556	25.5
FEB					13...	1140	38	525	18.5
15...	1715	321	188	6.0	JUL				
25...	0940	26	530	10.5	13...	1330	4.7	933	39.0
MAR					25...	1158	6.5	820	28.0
22...	1520	23	545	17.0	AUG				
28...	1100	17	595	13.0	29...	1045	2.7	1400	23.5
APR									
10...	1320	7.7	758	22.0					
26...	1415	50	462	17.0					
03286500 KENTUCKY RIVER AT LOCK 7 AT HIGHBRIDGE, KY (LAT 37 49 45N LONG 084 43 26W)									
OCT 1994					MAR 1995				
06...	1023	118	395	19.0	24...	1005	5530	234	12.0
NOV					MAY				
30...	0945	4410	476	11.0	02...	1035	14800	226	12.0
JAN 1995					JUN				
12...	0915	7170	305	4.5	06...	0940	3160	291	21.5
FEB					JUL				
24...	0920	8730	227	6.0	12...	1040	699	309	27.5
03287000 KENTUCKY RIVER AT LOCK 6 NEAR SALVISA, KY (LAT 37 55 32N LONG 084 49 17W)									
OCT 1994					MAR 1995				
03...	1115	498	303	16.5	21...	1325	6040	239	10.5
NOV					MAY				
29...	1240	6420	435	11.0	01...	1115	5340	184	13.0
JAN 1995					JUN				
09...	1500	18700	287	3.5	06...	1235	3280	282	19.0
03287500 KENTUCKY RIVER AT LOCK 4 AT FRANKFORT, KY (LAT 38 12 06N LONG 084 52 54W)									
OCT 1994					MAR 1995				
05...	1045	297	296	19.5	02...	1400	8610	260	6.0
NOV					APR				
07...	1050	681	274	14.5	05...	1025	2180	290	12.5
DEC					JUN				
19...	1040	3160	366	8.0	05...	1112	5310	260	29.0
JAN 1995					JUL				
23...	1025	11200	232	6.5	18...	1110	902	328	29.5
03288000 NORTH ELKHORN CREEK NEAR GEORGETOWN, KY (LAT 38 12 20N LONG 084 30 49W)									
NOV 1994					APR 1995				
25...	1115	6.0	468	7.0	27...	0820	179	382	14.0
JAN 1995					JUN				
10...	1500	174	401	5.5	09...	0910	84	399	22.0
FEB					JUL				
16...	1230	887	366	4.5	14...	1425	6.6	362	27.5
MAR					AUG				
23...	1500	81	378	13.0	28...	1435	6.8	670	25.0
03288100 NORTH ELKHORN CREEK AT GEORGETOWN, KY (LAT 38 13 10N LONG 084 33 48W)									
OCT 1994					APR 1995				
05...	1711	4.9	547	17.0	27...	0950	229	397	14.0
NOV					MAY				
25...	1315	11	860	8.0	18...	1130	6500	319	17.5
JAN 1995					JUN				
17...	0920	738	360	7.5	09...	1030	120	399	23.0
FEB					JUL				
23...	1455	154	435	7.0	11...	1410	11	391	28.0
MAR									
21...	1515	125	430	13.5					
03288110 ROYAL SPRINGS AT GEORGETOWN, KY (LAT 38 12 34N LONG 084 33 43W)									
OCT 1994					MAR 1995				
15...	1550	0.62	564	16.5	28...	1205	16	531	11.5
NOV					APR				
25...	1435	1.8	703	13.5	27...	1050	31	504	13.5
JAN 1995					JUN				
13...	1355	27	540	12.5	09...	1200	47	461	20.0
FEB									
16...	1430	57	518	8.5					
03289300 SOUTH ELKHORN CRBEK NEAR MIDWAY, KY (LAT 38 08 27N LONG 084 38 43W)									
OCT 1994					APR 1995				
05...	1545	51	748	18.0	27...	1305	161	511	15.5
NOV					JUN				
21...	1410	77	--	13.0	12...	0935	512	351	19.5
JAN 1995					JUL				
17...	1235	428	--	9.5	19...	1035	78	660	26.0
FEB					AUG				
28...	1305	200	533	11.0	22...	1225	118	594	26.0
MAR									
28...	1355	99	554	12.5					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS
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DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
KENTUCKY RIVER BASIN--Continued									
03289500 ELKHORN CREEK NEAR FRANKFORT, KY (LAT 38 16 07N LONG 084 48 53W)									
NOV 1994					MAY 1995				
10...	1030	55	550	12.5	08...	0950	398	426	16.0
DEC 19...	1435	594	489	5.5	JUN 13...	1205	1840	367	19.5
JAN 1995					JUL 20...	1400	64	522	25.5
23...	1445	612	475	3.5	AUG 22...	1355	138	555	26.5
MAR 03...	1110	357	483	4.5					
APR 03...	1110	176	470	10.5					
03291500 EAGLE CREEK AT GLENCOE, KY (LAT 38 42 18N LONG 084 49 26W)									
OCT 1994					APR 1995				
17...	1355	0.59	355	19.5	04...	1220	63	542	12.0
NOV 09...	1030	10	310	14.0	MAY 09...	0945	174	436	18.0
DEC 20...	1340	166	347	3.5	JUN 14...	1040	461	295	19.0
JAN 1995					JUL 19...	1345	2.3	410	29.0
24...	1100	197	434	1.0	AUG 28...	1435	4.0	258	29.0
FEB 28...	1425	174	457	7.5					
BEARGRASS CREEK BASIN									
03292700 UNAMED TRIBUTARY TO MIDDLE FORK BEARGRASS CREEK NEAR MIDDLETOWN, KY (LAT 38 15 05N LONG 085 33 36)									
DEC 1994					FEB 1995				
09...	1325	8.2	315	11.5	10...	1015	0.56	330	7.5
NOV 08...	1340	8.3	315	11.5	MAY 09...	1055	43	129	18.5
SALT RIVER BASIN									
03295400 SALT RIVER AT GLENSBORO, KY (LAT 38 00 07N LONG 085 03 38W)									
OCT 1994					JUN 1995				
05...	1435	1.0	594	16.0	16...	1045	105	390	20.5
MAR 1995					JUL 20...	1015	6.6	411	23.5
03...	1610	71	467	5.0	AUG 21...	1410	10	455	28.0
APR 06...	1340	36	445	13.5					
MAY 10...	1330	1200	404	18.5					
03295890 BRASHEARS CREEK AT TAYLORSVILLE, KY (LAT 38 02 13N LONG 085 20 27W)									
OCT 1994					APR 1995				
05...	1050	0.55	490	14.5	06...	1000	33	398	10.0
NOV 08...	0940	1.8	441	11.0	MAY 10...	1000	683	375	17.0
DEC 21...	1630	137	464	3.5	JUN 15...	1320	161	332	23.0
JAN 1995					JUL 17...	1000	12	409	26.5
25...	1055	171	464	0.5	AUG 21...	1115	15	401	26.5
MAR 01...	0950	165	425	7.0					
03297900 FLOYDS FORK NEAR PEWEE VALLEY, KY (LAT 38 17 07N LONG 085 28 04W)									
OCT 1994					MAY 1995				
06...	1025	0.43	511	13.5	08...	1325	26	500	18.0
NOV 18...	1350	12	602	10.5	19...	0905	1130	323	15.5
DEC 22...	1000	31	543	3.5	JUN 14...	1330	17	509	19.0
JAN 1995					JUL 19...	0925	2.1	489	24.0
25...	1420	37	591	1.0	AUG 28...	1015	1.0	539	24.0
FEB 28...	0945	40	529	9.0					
APR 04...	0855	12	532	11.5					
03298500 SALT RIVER AT SHEPHERDSVILLE, KY (LAT 37 59 06N LONG 085 43 03W)									
OCT 1994					MAY 1995				
03...	1035	25	402	18.0	24...	1335	4120	347	19.0
DEC 19...	0945	2060	390	6.0	JUN 26...	1055	482	355	21.5
JAN 1995					JUL 28...	1305	172	370	22.0
30...	1120	3550	360	2.0	AUG 29...	1310	39	365	21.0
MAR 13...	1215	3670	350	15.5					
APR 14...	1050	374	451	15.5					

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SALT RIVER BASIN--Continued									
03298550 LONG LICK AT CLERMONT, KY (LAT 38 55 40N LONG 085 39 15W)									
OCT 1994					APR 1995				
03...	1525	0.03	642	20.5	14...	0830	7.8	460	14.0
NOV					JUN				
10...	1220	0.38	676	13.5	12...	0930	7.6	343	18.5
DEC					JUL				
19...	1245	2.5	560	10.5	21...	1100	0.36	742	23.5
JAN 1995					AUG				
30...	1415	10	330	4.0	25...	1440	0.26	895	22.5
MAR									
13...	0925	8.5	560	9.0					
03300400 BEECH FORK AT MAUD, KY (LAT 37 49 58N LONG 085 17 46W)									
OCT 1994					APR 1995				
04...	1600	0.69	276	18.5	10...	1010	89	489	16.0
NOV					MAY				
08...	1330	0.44	239	12.5	10...	0915	3610	291	18.0
DEC					JUN				
21...	1105	148	383	3.0	12...	1215	2370	347	21.0
JAN 1995					JUL				
26...	1315	143	439	2.0	17...	1330	14	331	28.0
MAR					AUG				
01...	1310	181	439	7.0	29...	1115	2.1	293	25.5
03301500 ROLLING FORK NEAR BOSTON, KY (LAT 37 46 02N LONG 085 42 14W)									
OCT 1994					APR 1995				
04...	1155	14	380	16.0	10...	1235	360	415	15.5
NOV					MAY				
08...	0900	10	404	13.0	24...	1100	2450	352	19.5
DEC					JUN				
19...	1425	897	400	11.5	26...	1350	1220	370	21.0
JAN 1995					JUL				
31...	1145	2700	--	2.0	27...	1230	140	380	21.5
MAR					AUG				
15...	1200	1790	395	14.0	29...	0945	43	410	28.5
03301580 WILSON CREEK NEAR DEATSVILLE, KY. (LAT 37 51 49N LONG 085 36 41W)									
OCT 1994					MAY 1995				
14...	1425	0.26	476	16.0	12...	0915	19	390	13.0
NOV					JUL				
22...	1000	0.57	377	9.5	12...	1220	0.31	469	24.5
FEB 1995					SEP				
27...	1500	5.4	431	9.0	19...	1430	0.99	445	19.5
APR									
07...	1440	4.6	457	14.5					
03302000 POND CREEK NEAR LOUISVILLE, KY (LAT 38 07 11N LONG 085 47 45)									
OCT 1994					MAR 1995				
03...	0910	8.2	690	19.0	06...	0845	70	509	9.0
31...	1250	7.7	729	16.0	APR				
DEC					03...	1415	11	564	13.0
05...	1230	131	474	13.5	JUN				
JAN 1995					26...	1415	65	363	24.0
04...	1455	13	710	1.5	SEP				
FEB					11...	1530	3.7	772	23.0
01...	1505	45	384	3.0					
GREEN RIVER BASIN									
03307000 RUSSELL CREEK NEAR COLUMBIA, KY (LAT 37 07 09N LONG 085 23 38W)									
OCT 1994					MAR 1995				
06...	1040	21	274	14.5	22...	0840	188	222	13.0
NOV					APR				
09...	1240	32	278	14.5	13...	1020	114	368	16.5
DEC					24...	1045	1480	162	11.5
22...	1550	117	225	7.0	AUG				
FEB 1995					03...	1330	27	165	21.5
08...	1235	110	268	0.0					
16...	1100	2240	176	7.5					
03307260 LITTLE PITMAN CREEK NEAR CAMPBELLSVILLE, KY (LAT 37 20 50N LONG 085 23 25W)									
OCT 1994					APR 1995				
05...	1840	10	1210	23.5	13...	1455	19	1200	22.5
NOV					MAY				
09...	1510	7.7	1980	21.0	17...	1220	606	595	22.5
DEC					AUG				
22...	1115	22	625	11.0	03...	1600	9.4	1110	23.0
FEB 1995					SEP				
08...	1130	24	1070	4.5	01...	0955	4.0	--	23.0
MAR									
21...	1355	26	865	17.0					

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GREEN RIVER BASIN--Continued									
03310300 NOLIN RIVER AT WHITE MILLS, KY (LAT 37 33 03N LONG 086 02 43W)									
OCT 1994					APR 1995				
05...	0915	49	520	15.0	11...	1415	173	430	18.5
NOV					MAY				
08...	1250	52	605	14.5	15...	1140	7190	165	19.5
DEC					JUN				
21...	1325	214	410	13.0	27...	1325	228	175	21.5
FEB 1995									
06...	1315	295	399	4.5					
16...	1015	3500	525	3.5					
03312765 BEAVER CREEK AT HWY 31 E NEAR GLASGOW, KY (LAT 37 02 05N LONG 085 54 13W)									
OCT 1994					APR 1995				
05...	1410	8.0	331	16.0	12...	1045	35	391	16.5
NOV					MAY				
09...	0905	11	380	14.0	18...	0830	311	247	16.0
DEC					JUN				
23...	1025	35	384	10.0	28...	1130	26	250	18.5
FEB 1995					AUG				
08...	1410	36	268	1.5	03...	1050	11	375	23.0
MAR					31...	1020	5.0	1210	23.5
22...	1125	63	322	13.5					
03313700 WEST FORK DRAKES CREEK NEAR FRANKLIN, KY (LAT 36 43 24N LONG 086 33 08W)									
OCT 1994					MAY 1995				
20...	0820	34	324	17.0	09...	1310	421	258	19.5
DEC					10...	0725	664	164	18.0
14...	0800	228	260	8.0	JUN				
FEB 1995					27...	1315	29	331	25.0
01...	0748	161	245	6.0	AUG				
MAR					09...	1322	30	367	26.0
20...	0922	124	262	15.5					
03316000 MUD RIVER NEAR LEWISBURG, KY (LAT 37 00 15N LONG 086 54 26W)									
OCT 1994					MAY 1995				
20...	1151	13	404	16.5	10...	1146	1960	--	18.0
FEB 1995					AUG				
01...	1144	84	426	4.5	10...	0850	27	241	23.5
03316500 GREEN RIVER AT PARADISE, KY (LAT 37 15 50N LONG 086 58 40W)									
DEC 1994					MAY 1995				
07...	1302	10300	278	13.0	23...	1016	48900	184	5.5
APR 1995									
26...	1250	13700	242	16.0					
03320000 GREEN RIVER AT LOCK 2 AT CALHOUN, KY (LAT 37 32 02N LONG 087 15 50W)									
DEC 1994					MAY 1995				
07...	0958	11500	302	12.5	23...	1400	55200	169	20.0
APR 1995									
26...	0943	17300	274	16.0					
03320500 POND RIVER NEAR APEX, KY (LAT 37 07 20N LONG 087 19 10W)									
NOV 1994					MAY 1995				
02...	1314	2.0	421	13.5	22...	1104	646	176	18.0
DEC					JUL				
21...	1425	92	282	6.0	12...	1355	8.4	341	32.0
FEB 1995					AUG				
22...	1506	359	198	7.5	29...	1119	1.7	254	31.0
APR									
17...	1053	33	374	21.5					
03321060 POND RIVER NEAR MADISONVILLE, KY (LAT 37 19 02N LONG 087 22 09W)									
NOV 1994					APR 1995				
03...	0811	13	3520	11.5	17...	1247	81	906	21.5
DEC					MAY				
21...	1125	1040	465	5.5	22...	1338	3020	200	20.0
FEB 1995					JUL				
22...	1210	1770	267	7.5	12...	1045	33	938	28.5
TRADEWATER RIVER BASIN									
03383000 TRADEWATER RIVER AT OLNEY, KY (LAT 37 13 26N LONG 087 46 53W)									
NOV 1994					JUN 1995				
01...	1417	1.2	360	13.0	01...	0838	168	275	--
DEC					JUL				
21...	0900	140	288	5.0	12...	0740	7.7	458	25.5
FEB 1995					AUG				
22...	0912	1120	198	6.5	29...	0905	4.1	527	26.0
APR									
17...	0828	26	452	18.5					

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CUMBERLAND RIVER BASIN									
03400800 MARTINS FORK NEAR SMITH, KY (LAT 36 45 08N LONG 083 15 27W)									
OCT 1994					MAY 1995				
11...	1405	28	140	21.0	30...	1235	55	108	16.5
DEC					JUN				
05...	1245	88	132	8.5	16...	1200	37	121	18.0
FEB 1995					JUL				
13...	1140	76	142	3.5	07...	1435	13	135	24.5
APR					AUG				
05...	1240	9.7	119	12.5	25...	1415	12	150	27.0
03401000 CUMBERLAND RIVER NEAR HARLAN, KY (LAT 36 50 48N LONG 083 21 21W)									
OCT 1994					MAY 1995				
04...	1240	87	--	17.5	16...	1035	2700	201	14.5
FEB 1995					JUN				
07...	1425	1010	275	1.0	29...	1025	151	647	23.5
APR					AUG				
06...	1130	281	568	10.5	29...	1320	45	821	26.5
03402000 YELLOW CREEK NEAR MIDDLESBORO, KY (LAT 36 40 05N LONG 083 41 19W)									
OCT 1994					APR 1995				
07...	1425	7.6	750	17.0	03...	1140	53	418	10.0
DEC					JUN				
02...	1205	24	--	5.5	01...	1415	33	550	21.5
FEB 1995					JUL				
06...	1315	133	263	0.5	11...	1250	18	570	25.5
MAR					AUG				
14...	1050	171	296	8.5	23...	1015	5.1	650	23.5
03402900 CUMBERLAND R AT PINE ST BR AT PINEVILLE, KY (LAT 36 45 47N LONG 083 41 31W)									
OCT 1994					MAY 1995				
12...	1035	134	703	14.0	23...	1200	1910	303	17.0
FEB 1995					JUL				
13...	1405	797	392	1.0	11...	1030	252	535	24.0
APR					AUG				
03...	1320	642	450	12.0	23...	1245	87	768	27.0
03404000 CUMBERLAND RIVER AT WILLIAMSBURG, KY (LAT 36 44 38N LONG 084 09 30W)									
OCT 1994					MAY 1995				
03...	1155	169	--	19.0	26...	1055	2210	289	19.5
DEC					JUL				
08...	1410	1010	342	10.0	10...	1430	310	434	26.0
FEB 1995					AUG				
17...	1431	18500	145	6.5	22...	1320	123	580	28.0
APR									
04...	1405	1120	388	14.0					
03404900 LYNN CAMP CREEK AT CORBIN, KY (LAT 36 57 05N LONG 084 05 37W)									
FEB 1995					JUL 1995				
15...	1115	1050	175	3.5	13...	1350	4.9	880	30.0
APR					AUG				
04...	1100	24	585	13.5	24...	1247	1.2	939	29.0
JUN									
02...	1055	49	457	20.0					
03406500 ROCKCASTLE RIVER AT BILLOWS, KY (LAT 37 10 16N LONG 084 17 46W)									
OCT 1994					MAY 1995				
12...	1005	24	251	13.0	22...	1155	1830	137	15.5
FEB 1995					JUL				
21...	1120	1380	140	6.5	13...	1045	90	215	25.0
APR					AUG				
07...	1125	290	170	12.5	24...	1020	43	252	24.5
03413200 BEAVER CREEK NEAR MONTICELLO, KY (LAT 36 47 51N LONG 084 53 46W)									
OCT 1994					MAY 1995				
17...	1335	3.1	562	15.0	31...	1125	24	320	15.5
DEC					JUL				
09...	1125	12	390	12.0	12...	1145	5.0	460	21.5
FEB 1995					AUG				
16...	1110	546	195	10.5	30...	1130	1.8	600	28.5
APR									
10...	1325	12	355	17.5					
03438000 LITTLE RIVER NEAR CADIZ, KY (LAT 36 46 40N LONG 087 43 18W)									
NOV 1994					MAY 1995				
02...	0751	30	517	11.5	11...	0816	179	425	18.5
DEC					19...	1047	5270	150	16.5
14...	1422	587	378	9.5	JUN				
FEB 1995					28...	1047	123	452	21.5
02...	0749	263	406	9.0	AUG				
MAR					11...	0835	123	390	22.5
14...	0750	415	384	13.0					

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CUMBERLAND RIVER BASIN									
03610200 CLARKS RIVER AT ALMO, KY (LAT 36 41 30N LONG 088 16 25W)									
OCT 1994					MAY 1995				
05...	1445	5.1	236	22.0	12...	0828	29	182	18.5
DEC					JUN				
15...	0834	72	163	7.0	29...	0820	17	198	24.5
FEB 1995					AUG				
03...	0757	39	180	10.5	07...	0806	158	111	24.0
MAR									
13...	1016	67	152	11.5					
MASSAC CREEK BASIN									
03611260 MASSAC CREEK NEAR PADUCAH, KY (LAT 37 02 29N LONG 088 42 39W)									
OCT 1994					APR 1995				
03...	0905	0.61	127	18.0	20...	1323	34	109	18.0
NOV					MAY				
04...	1036	0.90	129	16.5	31...	1012	1.6	145	20.0
DEC					JUL				
15...	1220	4.2	137	6.5	13...	1017	0.90	140	25.5
FEB 1995					AUG				
07...	1254	3.6	142	2.5	30...	1148	0.65	134	26.5
OHIO RIVER MAIN STEM									
03611500 OHIO RIVER AT METROPOLIS, IL (LAT 37 08 51N LONG 088 44 27W)									
MAR 1995					MAY 1995				
13...	1110	666000	160	10.5	26...	1110	680000	246	21.0
BAYOU CREEK BASIN									
03611800 BAYOU CREEK NEAR HEATH, KY (LAT 37 05 58N LONG 088 49 27W)									
OCT 1994					APR 1995				
03...	1355	0.13	237	19.5	21...	1407	11	106	18.0
NOV					MAY				
23...	1240	0.11	92	10.0	22...	1410	0.75	102	20.5
DEC					JUL				
22...	0951	0.23	224	6.5	10...	1312	0.22	206	27.5
FEB 1995					SEP				
09...	1259	0.26	161	3.5	01...	1241	0.16	270	24.5
03611850 BAYOU CREEK NEAR GRAHAMVILLE, KY (LAT 37 08 41N LONG 088 49 38W)									
OCT 1994					APR 1995				
03...	1055	7.6	1180	22.0	24...	1215	32	338	15.5
NOV					MAY				
23...	1120	7.5	775	10.5	22...	1218	8.6	878	22.5
DEC					JUL				
22...	1109	5.7	620	10.5	10...	1118	6.9	931	27.5
FEB 1995					SEP				
09...	1122	5.8	527	3.0	01...	1114	5.8	406	28.5
03611900 LITTLE BAYOU CREEK NEAR GRAHAMVILLE, KY (LAT 37 08 22N LONG 088 47 26W)									
OCT 1994					APR 1995				
03...	1220	0.50	317	22.0	24...	1059	14	86	12.5
NOV					MAY				
23...	1025	0.58	227	7.0	22...	1030	1.3	246	18.0
DEC					JUL				
22...	1225	0.67	298	8.5	10...	0914	1.3	254	24.5
FEB 1995					SEP				
09...	0956	0.98	519	0.5	01...	1010	1.1	313	26.0
BAYOU DE CHIEN BASIN									
07024000 BAYOU DE CHIEN NEAR CLINTON, KY (LAT 36 37 43N LONG 088 57 50W)									
OCT 1994					MAY 1995				
13...	1104	38	70	15.0	19...	1125	350	85	19.0
DEC					JUL				
15...	1015	32	95	6.5	13...	0734	17	77	23.0
FEB 1995					AUG				
08...	1023	28	89	0.5	30...	0948	15	68	23.5
APR									
21...	0857	269	137	17.0					

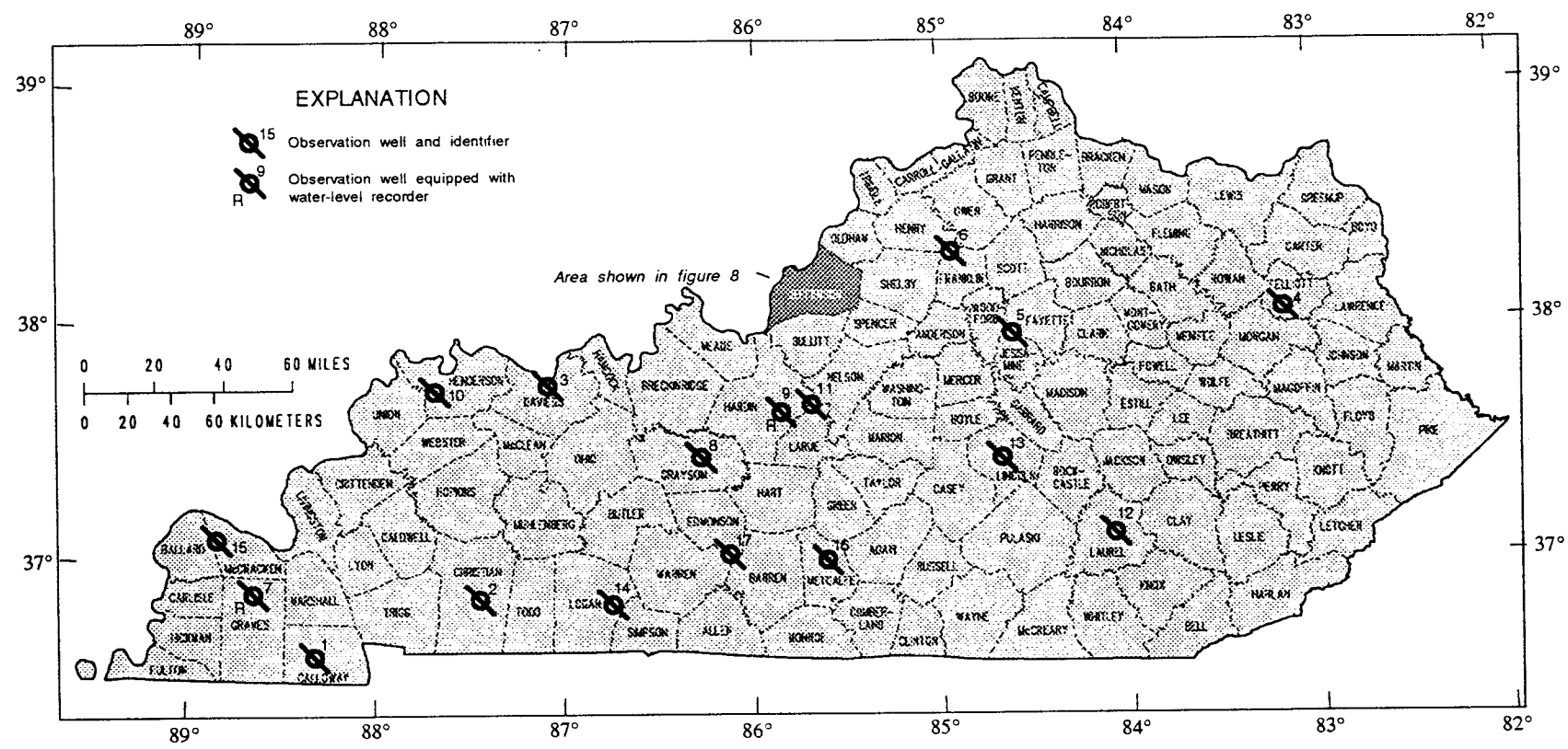


Figure 7. Location of observation wells in Kentucky.

WATER RESOURCES DATA - KENTUCKY 1995

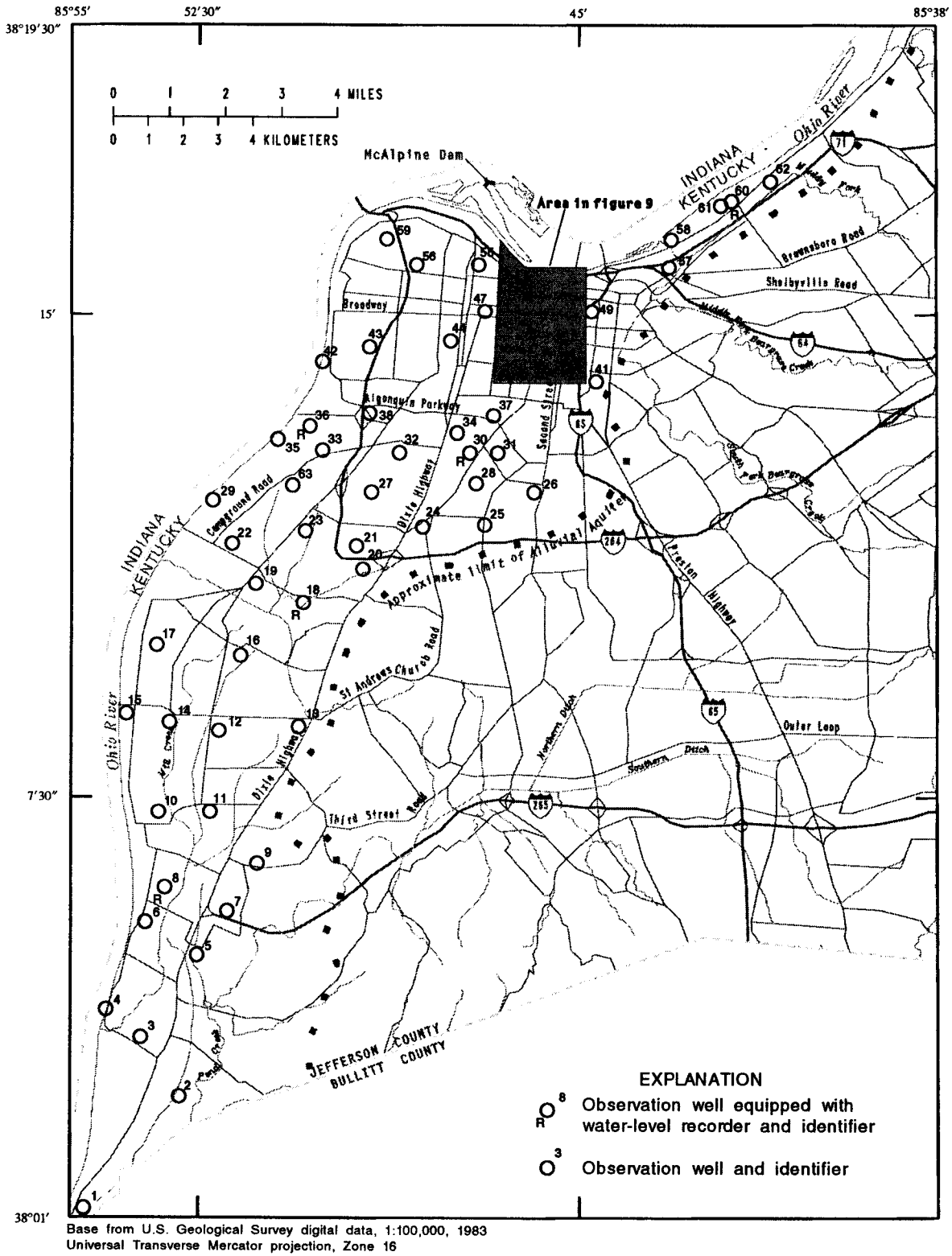


Figure 8. Location of observation wells in Jefferson County.

WATER RESOURCES DATA - KENTUCKY, 1995

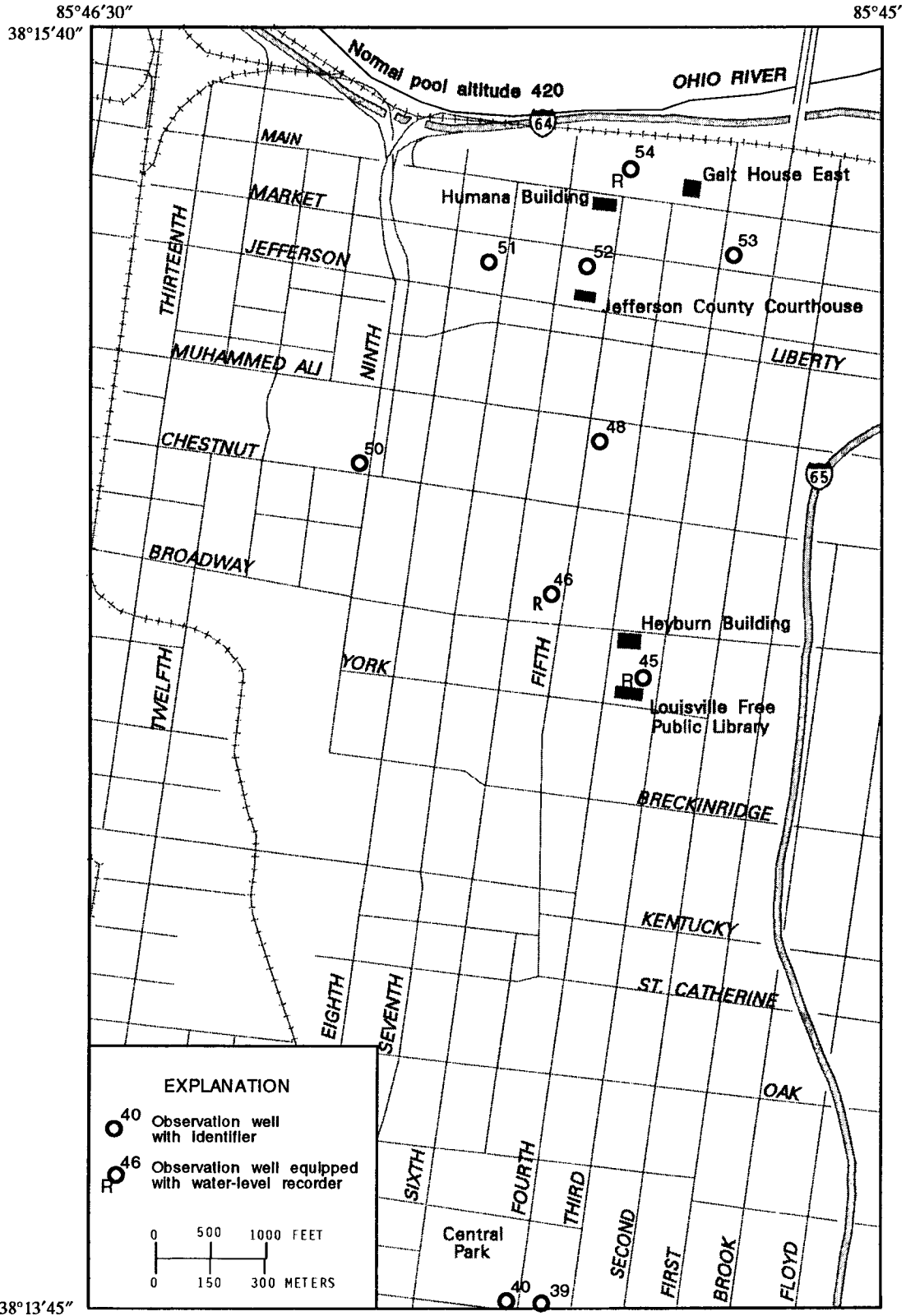


Figure 9. Location of observation wells in downtown Louisville.