



Water Resources Data Kentucky Water Year 1997



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

03307000 RUSSELL CREEK NEAR COLUMBIA, KY

LOCATION.--Lat 37°07'09", long 85°23'38", Adair County, Hydrologic Unit 05110001, on left bank at downstream side of bridge on State Highway 61, 0.3 mi upstream from Butlers Fork, 5.0 mi west of Columbia, and at mile 26.9. Records include flow of Butlers Fork.

DRAINAGE AREA.--188 mi² (includes Butlers Fork), of which about 15 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1939 to current year. Prior to December 1939, monthly discharge only, published in WSP 1305.

REVISED RECORDS.--WSP 1275: 1940. WSP 1335: 1953. WSP 1555: Drainage area. WRD KY-75-1: 1949(M), 1952(M), 1955(M), 1962(M), 1967(M), 1974(M).

GAGE.--Water-stage recorder. Datum of gage is 610.96 ft above sea level. Prior to June 25, 1953, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 11-20, and Aug. 12-14, 16-19, 23-21. Records good except for periods of estimated record, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Jan. 1937 reached a stage of about 23 ft, from info. by local residents.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	228	180	2950	293	389	5230	346	93	3060	158	37	26
2	365	208	1100	268	313	6910	286	110	943	162	34	24
3	358	156	669	244	264	5590	249	220	796	151	29	22
4	228	126	469	220	1540	1860	224	198	637	134	23	21
5	164	112	392	569	1440	2600	206	120	553	122	18	20
6	130	106	412	479	796	2490	193	95	563	114	14	19
7	109	329	337	343	565	1010	170	81	556	107	12	19
8	96	1910	272	274	633	715	147	74	561	100	10	17
9	87	791	224	300	648	547	136	104	575	96	26	17
10	78	457	193	355	517	516	126	92	505	92	64	16
11	74	308	183	244	429	434	123	72	414	89	39	16
12	70	223	263	152	363	360	124	65	451	83	12	16
13	63	172	350	149	321	310	124	61	800	77	4.3	15
14	59	147	241	147	433	467	111	63	2820	73	13	15
15	57	128	202	173	395	475	103	71	2210	70	39	15
16	54	112	199	455	325	353	98	64	922	67	23	14
17	52	110	2280	247	279	304	98	58	1790	63	12	13
18	87	569	989	192	248	1160	98	56	1110	58	6.3	13
19	205	621	593	185	226	4250	98	55	961	51	13	12
20	116	384	421	183	207	1360	103	233	680	47	340	12
21	88	1770	325	176	238	821	102	169	541	43	172	12
22	60	1200	291	264	289	595	124	90	424	40	71	12
23	70	573	276	442	220	456	110	68	338	37	44	11
24	100	388	934	1040	184	372	99	61	274	49	34	10
25	94	350	670	1070	167	324	89	59	230	47	28	10
26	84	781	469	623	179	448	82	140	208	42	27	10
27	101	452	409	485	409	363	91	172	196	39	27	9.9
28	368	334	370	1760	431	316	116	113	188	35	27	9.6
29	612	275	364	941	---	1090	108	204	162	32	27	9.5
30	324	1410	341	627	---	541	92	197	152	39	27	9.2
31	211	---	323	482	---	435	---	1200	---	45	27	---
TOTAL	4792	14682	17511	13382	12448	42702	4176	4458	23620	2362	1279.6	445.2
MEAN	155	489	565	432	445	1377	139	144	787	76.2	41.3	14.8
MAX	612	1910	2950	1760	1540	6910	346	1200	3060	162	340	26
MIN	52	106	183	147	167	304	82	55	152	32	4.3	9.2
CFSM	.82	2.60	3.00	2.30	2.36	7.33	.74	.76	4.19	.41	.22	.08
IN.	.95	2.91	3.46	2.65	2.46	8.45	.83	.88	4.67	.47	.25	.09

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

MEAN	75.6	209	416	479	569	588	394	280	190	130	89.9	110
MAX	636	1047	2540	1779	1490	1787	856	1464	800	751	502	1114
(WY)	1976	1952	1979	1950	1956	1975	1972	1983	1950	1967	1967	1979
MIN	1.38	8.92	18.6	26.5	61.1	91.0	70.1	39.8	14.6	10.0	4.25	2.09
(WY)	1954	1954	1954	1981	1941	1941	1986	1941	1988	1944	1991	1953

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1940 - 1997

ANNUAL TOTAL	126758	141857.8	
ANNUAL MEAN	346	389	
HIGHEST ANNUAL MEAN			651
LOWEST ANNUAL MEAN			118
HIGHEST DAILY MEAN	3560	Mar 7	6910
LOWEST DAILY MEAN	29	Sep 1	4.3
ANNUAL SEVEN-DAY MINIMUM	35	Aug 26	9.7
INSTANTANEOUS PEAK FLOW			12100
INSTANTANEOUS PEAK STAGE			18.75
INSTANTANEOUS LOW FLOW			8.9
ANNUAL RUNOFF (CFSM)			1.84
ANNUAL RUNOFF (INCHES)			25.08
10 PERCENT EXCEEDS	792		808
50 PERCENT EXCEEDS	204		183
90 PERCENT EXCEEDS	49		21

GREEN RIVER BASIN

03308500 GREEN RIVER AT MUNFORDVILLE, KY

LOCATION.--Lat 37°16'05", long 85°53'10", Hart County, Hydrologic Unit 05110001, on right bank at downstream side of pier of bridge on U.S. Highway 31W at Munfordville, and at mile 225.9.

DRAINAGE AREA.--1,673 mi², of which about 180 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--February 1915 to December 1922, October 1927 to September 1931, December 1936 to February 1937 (in WSP 838), October 1937 to current year. Monthly discharge only October 1937 to March 1938, published in WSP 1305. Gage-height records collected at same site since 1924 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1555: 1916(M), drainage area. WSP 1909: 1937.

GAGE.--Water-stage recorder. Datum of gage is 451.70 ft above sea level. See WDR KY-90-1 for history of changes prior to Nov. 29, 1940.

REMARKS.--Estimated daily discharges: Jan. 11-15 and 18-21. Records fair. Flow regulated by Green River Lake beginning February 1969 (station 03305990).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1913 reached a stage of 54.0 ft at former site, discharge, 67,000 ft³/s.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3870	2030	13100	4820	5100	13000	7450	2520	13900	4570	394	407
2	3500	1960	11900	4690	2790	35300	7060	2620	12500	4500	428	400
3	3330	1960	6060	4590	2260	40200	7000	2990	6250	4450	435	394
4	3270	1780	5480	4290	8890	35400	7200	3490	5590	4370	441	321
5	3100	952	5540	4060	16700	27200	7090	2370	6190	4330	439	270
6	2970	660	5540	4280	8580	23100	6970	2120	7550	4240	359	250
7	2410	971	5400	3830	5970	15200	6820	2440	7960	4180	313	231
8	1380	5560	5020	3750	6550	7420	6650	1960	8660	3510	305	224
9	1270	6440	4750	3300	7050	5560	6530	1820	9690	2230	308	239
10	918	4650	4550	2570	6650	4720	6430	1830	7470	2070	375	303
11	710	4740	4290	2100	6490	4240	6350	1210	6530	1290	511	337
12	616	4780	3520	1800	6800	3620	6210	1020	6080	1150	531	310
13	561	4540	2540	1600	6550	3540	5530	961	6560	905	446	283
14	567	4380	2290	1800	6590	3930	4910	938	8740	764	414	268
15	557	4260	2220	2400	5660	4010	4260	943	13500	671	426	251
16	537	4180	2210	2610	2810	4450	3730	920	8600	551	419	230
17	511	4120	12300	2960	2310	4630	3550	891	8060	482	419	222
18	541	4160	15000	2500	2070	6910	2800	849	8630	452	375	220
19	633	4450	6660	2000	2810	17900	2000	890	7090	434	350	250
20	1140	4580	4010	1700	5790	19500	1060	2350	6830	391	2040	275
21	1140	4630	3110	2100	5860	8100	994	2370	6370	359	1570	296
22	1180	7730	2470	2440	5980	5890	995	2540	5850	342	918	324
23	1860	6290	2690	2920	5900	6000	1020	1580	5390	328	681	328
24	1920	4880	6320	4420	5310	6010	992	952	4820	324	547	356
25	2030	4630	8800	11300	4090	6050	943	804	3400	313	645	373
26	2340	5800	6730	8880	2790	6110	907	810	4540	305	603	384
27	2360	5730	5890	7090	2790	6470	930	1070	5100	305	495	386
28	2400	4920	5550	9220	3220	6800	1550	1000	5010	297	439	389
29	2730	4510	5280	9980	---	9980	1500	2010	4750	298	404	389
30	2890	5190	5120	7360	---	9790	1890	3070	4660	316	388	384
31	2290	---	4950	6570	---	8100	---	3450	---	340	406	---
TOTAL	55531	125463	179290	133930	154360	359130	121321	54788	216270	49067	16824	9294
MEAN	1791	4182	5784	4320	5513	11580	4044	1767	7209	1583	543	310
MAX	3870	7730	15000	11300	16700	40200	7450	3490	13900	4570	2040	407
MIN	511	660	2210	1600	2070	3540	907	804	3400	297	305	220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1997, BY WATER YEAR (WY)

MEAN	1420	2545	4309	4649	5312	4925	3607	3423	2317	1117	921	1341
MAX	5337	5187	12800	12130	10710	12040	8632	13250	7209	3132	3642	6104
(WY)	1976	1978	1979	1974	1991	1975	1994	1983	1997	1973	1977	1979
MIN	244	210	545	255	1952	1066	552	487	214	280	202	192
(WY)	1987	1972	1981	1981	1992	1983	1986	1988	1988	1993	1993	1983

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1970 - 1997
ANNUAL TOTAL	1203597	1475268	
ANNUAL MEAN	3289	4042	2979
HIGHEST ANNUAL MEAN			5285
LOWEST ANNUAL MEAN			1348
HIGHEST DAILY MEAN	16000	Mar 7	40200
LOWEST DAILY MEAN	249	Sep 15	220
ANNUAL SEVEN-DAY MINIMUM	285	Aug 29	245
INSTANTANEOUS PEAK FLOW			40600
INSTANTANEOUS PEAK STAGE			43.30
INSTANTANEOUS LOW FLOW			157
10 PERCENT EXCEEDS	6140	7620	7000
50 PERCENT EXCEEDS	2870	2920	1570
90 PERCENT EXCEEDS	458	359	293

GREEN RIVER BASIN

03310300 NOLIN RIVER AT WHITE MILLS, KY

LOCATION.--Lat 37°33'03", long 86°02'43", Hardin County, Hydrologic Unit 05110001, on right bank, 0.8 mi southwest of White Mills, 1.6 mi downstream from bridge on State Highway 84, and at mile 78.7.

DRAINAGE AREA.--357 mi², of which about 120 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 583.08 ft above sea level. Prior to Jan. 8, 1960, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Feb. 28 to Mar. 4, May 7-28, June 7 to July 16. Records good except for periods of estimated record, which are poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	507	165	2060	606	741	10000	1040	366	291	370	90	81
2	409	155	1560	568	628	20000	911	391	514	430	83	80
3	352	148	1000	537	549	11000	818	606	899	400	79	83
4	302	140	794	508	2440	8200	754	659	1200	360	74	85
5	265	136	680	656	4920	4690	708	434	808	330	70	82
6	238	133	792	789	2380	5110	672	371	611	290	66	81
7	216	144	691	606	1500	3470	617	300	1400	270	62	79
8	198	567	589	527	1230	2490	567	360	1100	250	57	77
9	183	521	523	494	1090	2080	537	540	1600	240	66	86
10	170	397	469	500	917	1970	505	400	1300	230	96	116
11	159	325	443	447	805	1680	484	330	1100	220	81	106
12	149	281	1460	385	717	1400	468	290	1050	220	74	88
13	141	250	1960	348	645	1250	451	270	3000	220	84	80
14	133	229	1130	324	666	1330	424	250	7000	210	98	74
15	128	214	863	327	811	1310	403	230	5000	210	88	71
16	124	201	850	577	735	1100	385	220	2700	200	78	70
17	119	193	3900	514	656	1010	370	200	5000	185	73	67
18	142	199	4660	396	592	1600	357	190	3100	175	117	67
19	176	252	1910	361	553	5090	349	450	2400	166	94	66
20	147	232	1330	346	514	3850	348	860	1800	157	105	70
21	130	230	1060	334	491	1970	336	450	1400	149	110	110
22	127	273	906	385	468	1590	335	340	1200	152	95	108
23	129	265	838	684	423	1310	322	280	900	170	85	85
24	141	252	2140	788	340	1120	308	220	720	138	79	80
25	132	495	1820	2300	344	1010	286	200	600	131	89	78
26	133	1250	1180	1280	332	1290	267	380	540	122	189	78
27	158	758	994	979	380	1130	275	300	470	114	113	75
28	167	582	908	1760	330	1070	406	540	440	107	97	69
29	176	501	821	1400	---	2000	347	252	400	109	90	65
30	190	725	727	1010	---	1590	300	300	350	110	85	64
31	176	---	656	854	---	1220	---	352	---	100	83	---
TOTAL	5917	10213	39714	21590	26197	103930	14350	11331	48893	6535	2750	2421
MEAN	191	340	1281	696	936	3353	478	366	1630	211	88.7	80.7
MAX	507	1250	4660	2300	4920	20000	1040	860	7000	430	189	116
MIN	119	133	443	324	330	1010	267	190	291	100	57	64
CFSM	.53	.95	3.59	1.95	2.62	9.39	1.34	1.02	4.57	.59	.25	.23
IN.	.62	1.06	4.14	2.25	2.73	10.83	1.50	1.18	5.09	.68	.29	.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1997, BY WATER YEAR (WY)

MEAN	157	295	646	696	898	1012	759	593	334	245	175	204
MAX	692	1206	2356	1603	3807	3353	2447	2715	1630	972	966	2258
(WY)	1978	1989	1979	1974	1989	1997	1972	1983	1997	1967	1967	1979
MIN	37.0	48.6	44.7	55.5	156	228	200	131	71.9	83.2	55.5	46.3
(WY)	1970	1964	1964	1981	1964	1983	1986	1976	1988	1994	1962	1983

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1960 - 1997

ANNUAL TOTAL	259671	293841	
ANNUAL MEAN	709	805	499
HIGHEST ANNUAL MEAN			971
LOWEST ANNUAL MEAN			283
HIGHEST DAILY MEAN	5310	Jan 24	20000
LOWEST DAILY MEAN	82	Sep 26	57
ANNUAL SEVEN-DAY MINIMUM	91	Aug 31	68
INSTANTANEOUS PEAK FLOW			24500
INSTANTANEOUS PEAK STAGE			36.46
INSTANTANEOUS LOW FLOW			31
ANNUAL RUNOFF (CFSM)	1.99		2.26
ANNUAL RUNOFF (INCHES)	27.06		30.62
10 PERCENT EXCEEDS	1740		1080
50 PERCENT EXCEEDS	449		370
90 PERCENT EXCEEDS	126		84

GREEN RIVER BASIN

03311000 NOLIN RIVER AT KYROCK, KY

LOCATION.--Lat 37°16'42", long 86°14'51", Edmonson County, Hydrologic Unit 05110001, in intake structure of Nolin River Dam on Nolin River, 0.3 mi upstream from Dismal Creek, 1.1 mi northeast of Kyrock, and at mile 7.8.

DRAINAGE AREA.--703 mi², of which about 223 mi² does not contribute directly to surface runoff. Area at site used Oct. 1, 1960, to Sept. 30, 1973, 707 mi².

PERIOD OF RECORD.--October 1930 to March 1932, July 1939 to September 1950, October 1960 to current year.

GAGE.--Water-stage recorder and outflow gate dials. Datum of gage 400 ft above sea level. See WDR KY-90-1 for history of changes prior to Sept. 30, 1973.

REMARKS.--Estimated daily discharges: Dec. 20-21. Water-discharge records not rated, see COOPERATION. Maximum gage height for period of record affected by backwater from the Green River. Flow regulated since March 1963 by Nolin Lake (station 03310900). Discharge records computed using gate openings.

COOPERATION.--Record of discharge furnished by U.S. Army Corps of Engineers.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since 1854, 26.35 ft, in January 1937, from floodmarks, at site and datum used in 1939-50.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2610	2060	245	3870	50	494	6180	834	814	4560	200	200
2	2790	1730	247	3190	50	323	6150	1120	357	4530	200	200
3	2780	899	249	2250	50	341	6130	1120	269	4500	200	246
4	2210	54	1430	1250	51	356	6100	1120	428	4470	200	266
5	1630	54	2660	946	52	364	6070	1120	542	2780	200	233
6	1630	954	2950	948	158	370	6040	1120	544	833	200	200
7	1270	1520	2930	950	1180	373	6270	1120	423	453	200	160
8	544	1520	2900	950	3030	376	6900	1120	175	401	200	90
9	402	1520	2870	950	3790	377	6710	1120	178	401	200	90
10	262	1520	2610	950	4500	378	6460	715	449	401	200	90
11	209	1510	1870	949	4820	379	6420	550	1190	401	200	90
12	262	1830	1880	948	4780	380	6370	550	2160	401	200	166
13	262	2010	2500	947	3900	381	6320	337	2510	401	200	200
14	262	2000	2870	945	4010	381	6260	370	1030	401	247	200
15	787	1990	2860	944	2500	1160	6200	435	296	334	267	101
16	1100	1970	2260	944	52	3240	5300	435	298	401	266	299
17	1100	1960	779	945	52	3760	3150	435	300	401	266	400
18	1100	1950	344	945	2800	2040	1520	435	301	401	266	400
19	1090	1610	356	944	4660	641	833	435	757	400	266	399
20	1090	1450	360	943	4600	645	550	500	1900	262	266	399
21	1090	1440	4000	940	4540	648	551	535	3140	200	266	399
22	1090	1440	5120	940	4480	2090	550	858	3820	200	233	399
23	1090	1430	5050	943	4410	4740	551	1090	5000	200	200	399
24	1420	1430	3810	949	4340	5740	551	1080	3920	200	200	398
25	1590	1190	3030	958	3290	5720	550	853	4710	200	200	398
26	1580	960	3030	970	2010	6270	550	491	4680	200	200	398
27	1580	1410	3020	976	1250	6910	551	434	4660	200	200	397
28	1770	1900	3000	983	938	6880	921	434	4630	200	247	397
29	2090	1890	2990	992	---	6860	904	503	4610	200	267	397
30	2080	1270	3300	1650	---	4860	550	533	4590	200	267	396
31	2070	---	3930	1260	---	5180	---	533	---	200	233	---
TOTAL	40840	44471	75450	37269	70343	72657	112162	22335	58681	29332	6957	8407
MEAN	1317	1482	2434	1202	2512	2344	3739	720	1956	946	224	280
MAX	2790	2060	5120	3870	4820	6910	6900	1120	5000	4560	267	400
MIN	209	54	245	940	50	323	550	337	175	200	200	90

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1997, BY WATER YEAR (WY)

	933	1358	1289	1568	1630	1262	906	1090	870	515	297	530
MEAN	933	1358	1289	1568	1630	1262	906	1090	870	515	297	530
MAX	4959	3393	4491	4852	4541	5533	4777	4161	4437	2009	1335	2266
(WY)	1980	1973	1978	1979	1985	1989	1975	1984	1983	1967	1967	1982
MIN	.000	452	1.50	122	91.4	203	.63	.39	.000	.000	.000	.000
(WY)	1976	1964	1985	1981	1992	1983	1966	1964	1964	1964	1964	1975

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1964 - 1997
ANNUAL TOTAL	455593	578904	
ANNUAL MEAN	1245	1586	1017
HIGHEST ANNUAL MEAN			1880
LOWEST ANNUAL MEAN			597
HIGHEST DAILY MEAN	5120	Dec 22	6910
LOWEST DAILY MEAN	51	Apr 12	50
ANNUAL SEVEN-DAY MINIMUM	51	Apr 12	127
INSTANTANEOUS PEAK FLOW			22700
INSTANTANEOUS PEAK STAGE			59.27
10 PERCENT EXCEEDS	2940	4600	2620
50 PERCENT EXCEEDS	918	943	477
90 PERCENT EXCEEDS	180	200	54

GREEN RIVER BASIN

03312765 BEAVER CREEK AT HWY 31 E NEAR GLASGOW, KY

LOCATION.--Lat 37°02'05", long 85°54'13", Barren County, Hydrologic Unit 05110002, on downstream side of bridge on U.S. Highway 31 E, 2.7 mi northeast of Glasgow, 8.3 mi upstream from Little Beaver Creek, and at mile 23.1.

DRAINAGE AREA.--49.6 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 651.43 ft above sea level.

REMARKS.--Estimated daily discharges: June 14 to July 14. Records fair except for period of estimated record, which is poor.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	61	1160	95	142	1670	103	37	987	45	14	6.1
2	67	71	412	91	120	1910	94	35	343	50	13	5.7
3	56	56	247	86	106	2060	89	78	223	46	12	9.0
4	47	45	177	79	1290	925	83	61	155	41	12	9.6
5	39	41	153	172	638	1050	77	43	152	36	12	8.4
6	34	37	163	135	307	846	70	38	181	32	12	7.4
7	31	158	133	109	251	372	62	33	175	30	12	6.8
8	29	655	114	97	234	269	55	37	179	28	11	5.9
9	26	246	100	101	204	229	51	55	183	27	18	20
10	24	173	93	103	180	215	48	38	148	27	24	26
11	20	131	88	85	155	192	47	32	128	26	19	13
12	18	107	106	71	138	173	46	30	122	26	15	9.3
13	17	93	111	64	139	151	43	29	133	26	17	8.3
14	16	87	94	60	138	141	39	29	900	25	17	7.1
15	15	76	86	64	121	125	37	27	760	23	14	6.8
16	14	67	114	119	113	110	36	24	320	22	13	6.8
17	14	65	1540	93	104	103	35	23	580	21	12	6.7
18	50	203	516	80	99	574	34	22	430	21	14	5.2
19	47	207	272	74	93	1460	35	34	310	19	14	5.7
20	26	157	198	70	91	446	34	86	240	19	26	7.0
21	21	427	152	65	98	270	35	40	180	18	15	7.1
22	18	282	134	76	82	220	36	29	140	17	11	7.1
23	23	189	122	108	71	172	33	26	110	16	9.3	6.7
24	27	146	343	471	67	137	31	23	86	16	7.7	11
25	20	160	221	604	69	122	28	23	72	16	7.9	12
26	20	214	172	247	85	135	27	42	64	15	14	11
27	29	156	149	192	89	114	41	38	58	15	9.1	10
28	94	132	133	458	85	117	56	113	54	15	7.1	9.6
29	137	118	120	283	---	219	42	92	47	24	6.2	7.0
30	94	513	107	208	---	139	35	60	41	18	6.4	7.3
31	68	---	101	170	---	120	---	383	---	15	6.7	---
TOTAL	1228	5073	7631	4730	5309	14786	1482	1660	7501	775	401.4	269.6
MEAN	39.6	169	246	153	190	477	49.4	53.5	250	25.0	12.9	8.99
MAX	137	655	1540	604	1290	2060	103	383	987	50	26	26
MIN	14	37	86	60	67	103	27	22	41	15	6.2	5.2
CFSM	.80	3.41	4.96	3.08	3.82	9.62	1.00	1.08	5.04	.50	.26	.18
IN.	.92	3.80	5.72	3.55	3.98	11.09	1.11	1.25	5.63	.58	.30	.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1997, BY WATER YEAR (WY)

MEAN	18.9	58.3	120	158	187	284	121	108	116	25.6	16.9	22.3
MAX	39.6	169	246	206	489	477	307	381	250	50.1	39.2	67.7
(WY)	1997	1997	1997	1995	1994	1997	1994	1995	1997	1992	1994	1996
MIN	6.96	26.4	30.3	107	78.8	137	49.4	38.8	19.9	7.41	4.53	3.71
(WY)	1994	1992	1996	1993	1992	1993	1997	1994	1993	1993	1993	1993

SUMMARY STATISTICS

	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1992 - 1997	
ANNUAL TOTAL	43453		50846.0			
ANNUAL MEAN	119		139		103	
HIGHEST ANNUAL MEAN					142	
LOWEST ANNUAL MEAN					49.7	
HIGHEST DAILY MEAN	1540	Dec 17	2060	Mar 3	2930	Mar 9 1994
LOWEST DAILY MEAN	11	Aug 31	5.2	Sep 18	1.7	Sep 14 1993
ANNUAL SEVEN-DAY MINIMUM	12	Aug 30	6.5	Sep 14	1.8	Sep 8 1993
INSTANTANEOUS PEAK FLOW			3460	Mar 1	6620	Jun 18 1992
INSTANTANEOUS PEAK STAGE			12.56	Mar 1	15.10	Jun 18 1992
ANNUAL RUNOFF (CFSM)	2.39		2.81		2.07	
ANNUAL RUNOFF (INCHES)	32.59		38.13		28.11	
10 PERCENT EXCEEDS	241		271		220	
50 PERCENT EXCEEDS	68		67		38	
90 PERCENT EXCEEDS	17		12		7.5	

GREEN RIVER BASIN

03313700 WEST FORK DRAKES CREEK NEAR FRANKLIN, KY

LOCATION.--Lat 36°43'24", long 86°33'08", Simpson County, Hydrologic Unit 05110002, near left bank at upstream side of city of Franklin pumping plant intake, 20 ft upstream from dam, 0.8 mi downstream from bridge on State Highways 73 and 100, 1.5 mi east of Franklin, 3.3 mi downstream from Sharps Branch, and at mile 46.7.

DRAINAGE AREA.--110 mi², of which about 19 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--June 1968 to current year.

GAGE.--Water-stage recorder and broad-crested weir. Datum of gage is 581.54 ft above sea level. Prior to Oct. 1, 1981, at site 0.8 mi upstream at datum 8.05 ft lower.

REMARKS.--Estimated daily discharges: Jan. 9-20, and Sept. 18-23. Records good except for periods of estimated record, which are fair. Subsequent to Apr. 24, 1976, records of daily discharge less than about 300 ft³/s does not include approximately 3 ft³/s which is diverted by city of Franklin for municipal supply.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	237	203	1690	177	305	2980	164	209	607	87	16	9.7
2	175	272	808	166	244	3830	141	162	339	69	14	8.9
3	138	175	474	154	207	3600	126	254	265	56	13	33
4	102	129	341	146	1390	1480	118	182	198	47	12	20
5	81	103	331	232	979	2260	113	131	155	42	12	13
6	69	91	421	219	592	1620	111	104	127	38	9.3	11
7	57	224	321	179	430	1000	96	84	142	35	7.5	9.0
8	53	828	253	158	455	734	81	76	134	33	6.4	8.9
9	50	387	209	160	408	541	72	75	143	31	14	9.9
10	46	268	181	150	352	551	67	62	124	31	14	11
11	41	200	169	140	301	418	64	54	110	28	13	16
12	38	157	235	130	258	347	67	47	107	32	13	14
13	36	132	224	120	233	304	64	43	105	36	15	10
14	36	130	181	110	276	394	57	42	824	32	18	8.1
15	35	117	160	100	237	338	52	37	433	28	18	6.5
16	34	103	419	300	209	268	48	33	298	26	13	5.6
17	34	103	3110	220	191	238	45	31	329	24	12	5.1
18	48	266	1150	180	176	404	47	30	343	21	59	5.0
19	57	295	720	160	167	1610	64	33	276	18	46	4.8
20	47	235	463	150	157	917	69	162	195	16	37	4.6
21	40	378	353	137	170	601	69	75	150	15	41	4.4
22	38	389	294	223	174	428	70	46	130	16	31	4.2
23	51	285	243	389	141	329	66	36	103	19	23	4.0
24	72	230	853	1130	122	263	61	31	82	15	19	20
25	60	316	513	1040	113	227	54	29	69	13	15	70
26	59	496	373	589	126	272	48	106	58	12	15	45
27	80	329	312	435	186	223	63	98	52	12	15	27
28	96	262	264	1080	193	219	84	83	50	13	15	20
29	101	221	235	665	---	340	282	82	58	18	12	16
30	90	588	209	461	---	243	170	63	60	20	12	12
31	78	---	190	366	---	201	---	450	---	19	10	---
TOTAL	2179	7912	15699	9866	8792	27180	2633	2950	6066	902	570.2	436.7
MEAN	70.3	264	506	318	314	877	87.8	95.2	202	29.1	18.4	14.6
MAX	237	828	3110	1130	1390	3830	282	450	824	87	59	70
MIN	34	91	160	100	113	201	45	29	50	12	6.4	4.0
CFSM	.64	2.40	4.60	2.89	2.85	7.97	.80	.87	1.84	.26	.17	.13
IN.	.74	2.68	5.31	3.34	2.97	9.19	.89	1.00	2.05	.31	.19	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1997, BY WATER YEAR (WY)

MEAN	46.1	140	307	302	369	400	252	216	147	62.5	32.9	63.7
MAX	219	474	971	867	1356	1412	568	982	637	251	142	677
(WY)	1976	1980	1979	1974	1989	1975	1979	1983	1974	1989	1971	1979
MIN	1.87	14.5	11.8	10.4	138	118	38.3	22.8	18.8	5.47	2.80	2.28
(WY)	1988	1988	1981	1981	1980	1981	1986	1988	1985	1985	1986	1986

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1968 - 1997
ANNUAL TOTAL	89071.5	85185.9	
ANNUAL MEAN	243	233	194
HIGHEST ANNUAL MEAN	351	1989	
LOWEST ANNUAL MEAN	87.8	1986	
HIGHEST DAILY MEAN	3110	3830	12800
LOWEST DAILY MEAN	7.1	4.0	.00
ANNUAL SEVEN-DAY MINIMUM	9.9	4.6	.00
INSTANTANEOUS PEAK FLOW		6420	27300
INSTANTANEOUS PEAK STAGE		11.05	23.20
ANNUAL RUNOFF (CFSM)	2.21	2.12	1.76
ANNUAL RUNOFF (INCHES)	30.12	28.81	23.98
10 PERCENT EXCEEDS	548	457	435
50 PERCENT EXCEEDS	149	110	71
90 PERCENT EXCEEDS	24	13	8.9

GREEN RIVER BASIN

03316500 GREEN RIVER AT PARADISE, KY

LOCATION.--Lat 37°15'50", long 86°58'40", Muhlenberg County, Hydrologic Unit 05110003, on left bank of reservation of Tennessee Valley Authority generating plant, 0.4 mi southeast of Paradise, 1.1 mi downstream from Jacobs Creek, 2.8 mi upstream from Pond Creek, and at mile 98.8.

DRAINAGE AREA.--6,183 mi², of which about 1,380 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1939 to September 1950 (published as "at Green River"), October 1959 to September 1960 (low-water records only), October 1960 to September 1981 and July 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 363.19 ft above sea level (levels by Tennessee Valley Authority). See WDR KY-81-1 for history of changes prior to October 31, 1979. Auxiliary water-stage recorder on U.S. Highway 62 bridge at Rockport, 4.4 mi downstream.

REMARKS.--Estimated daily discharges: Feb. 10-13. Records fair except for periods of estimated record, which are poor. Flow regulated by Green River Lake beginning February 1969, Nolin River Lake beginning March 1963, and Barren River Lake beginning March 1964.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16800	9390	20500	16800	20200	19200	24500	8910	9220	14000	1330	1190
2	14100	8750	25800	16200	15400	36500	22700	8550	15400	13800	1370	1170
3	12500	8430	27900	15400	12000	58800	21200	10700	20500	13600	1350	1430
4	11100	7890	23000	14400	18900	69600	20200	12200	17200	13400	1340	1460
5	9960	6770	18100	14000	33800	78200	19900	11500	13700	13100	1330	1500
6	8770	6010	18400	14500	37400	83100	19900	10300	13100	12000	1280	1400
7	8060	5830	18200	14200	36900	83800	20000	8850	15700	10200	1240	1280
8	6920	8810	17200	13400	32300	77500	19800	7770	19900	9090	1160	1170
9	5070	12800	16200	12600	26600	69300	20000	8140	21000	8540	1130	1160
10	3900	15400	15400	12200	25000	60100	19500	7670	21000	7360	1110	1130
11	3210	14300	14300	11400	24000	51100	18700	6760	18900	5780	1140	1090
12	2750	12700	17100	10700	23000	43000	18700	5730	16500	4590	1170	1020
13	2350	12100	22200	10100	22000	36300	18700	4750	16100	3710	1320	1010
14	2080	11900	19500	9560	21100	30700	17900	4090	21300	3320	1340	1010
15	1970	11500	16700	9220	20400	27100	16900	3800	28000	3120	1320	1000
16	2120	11200	16000	10800	18600	23100	16400	3580	29000	2930	1270	971
17	3410	10900	28000	11400	14700	22900	15500	3380	28000	2630	1270	941
18	5300	11100	37000	11400	12300	23300	13600	3200	25000	2160	1280	939
19	5620	12000	39800	10700	12200	30200	12300	3080	22000	1870	1280	1020
20	5400	12600	39700	9320	13600	34700	10600	3700	18900	1710	1380	1090
21	5270	12700	33700	8450	16000	36400	10100	5690	17700	1580	1720	1180
22	5390	14000	26600	8650	18300	37600	9820	6820	18000	1550	2610	1240
23	5850	16000	21100	11000	17800	35700	9010	6360	17100	1580	2530	1350
24	6220	16400	24100	12900	17300	32200	8320	5720	16400	1580	2040	1400
25	6670	15500	27000	18500	16600	29200	7840	4890	15300	1500	1660	1450
26	7230	18200	26500	24600	14900	28400	7380	4610	14000	1410	1460	1450
27	8080	18400	24000	25000	13900	26500	7830	4710	13500	1340	1450	1490
28	9390	17300	20900	24600	13200	24800	11400	4730	14200	1310	1450	1660
29	11800	16100	19400	25800	---	25300	11000	6210	14500	1370	1390	1840
30	11400	15400	17900	25900	---	26000	9850	7320	14300	1340	1280	1920
31	10500	---	17000	23600	---	26500	---	7520	---	1320	1210	---
TOTAL	219190	370380	709200	457300	568400	1287100	459550	201240	545420	162790	44210	37961
MEAN	7071	12350	22880	14750	20300	41520	15320	6492	18180	5251	1426	1265
MAX	16800	18400	39800	25900	37400	83800	24500	12200	29000	14000	2610	1920
MIN	1970	5830	14300	8450	12000	19200	7380	3080	9220	1310	1110	939

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1997, BY WATER YEAR (WY)

MEAN	5333	8583	14400	16870	16630	18710	14270	10570	7916	4002	2890	4039
MAX	16950	19310	42250	36020	26410	41520	34210	25950	20190	8811	8743	22550
(WY)	1980	1980	1979	1974	1994	1997	1979	1995	1981	1973	1971	1979
MIN	2463	4030	2103	954	6083	6150	4441	2492	2024	1702	623	739
(WY)	1981	1972	1981	1981	1977	1981	1978	1976	1972	1993	1993	1995

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1970 - 1997	
ANNUAL TOTAL	4029080		5062741			
ANNUAL MEAN	11010		13870			
HIGHEST ANNUAL MEAN					10390	
LOWEST ANNUAL MEAN					18460	1979
HIGHEST DAILY MEAN	39800	Dec 19	83800	Mar 7	6044	1993
LOWEST DAILY MEAN	942	Sep 5	939	Sep 18	83800	Mar 7 1997
ANNUAL SEVEN-DAY MINIMUM	987	Sep 2	984	Sep 12	277	Sep 13 1995
INSTANTANEOUS PEAK FLOW			86300	Mar 7	320	Sep 8 1995
INSTANTANEOUS PEAK STAGE			37.63	Mar 7	107000	Mar 5 1962
INSTANTANEOUS LOW FLOW					40.46	Mar 5 1962
10 PERCENT EXCEEDS	21900		26800		250	Oct 23 1940
50 PERCENT EXCEEDS	9970		12000		6410	
90 PERCENT EXCEEDS	2010		1330		1430	

GREEN RIVER BASIN

03320000 GREEN RIVER AT LOCK 2, AT CALHOUN, KY

LOCATION.--Lat 37°32'02", long 87°15'50", McLean County, Hydrologic Unit 05110005, 870 ft upstream from lock and dam 2, on right bank 0.2 mi downstream from bridge on State Highway 81 at Calhoun, 0.2 mi upstream from Long Falls Creek, and at mile 63.3.

DRAINAGE AREA.--7,566 mi², of which about 1,540 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--March 1930 to current year. Prior to October 1958, published as "at Livermore."

REVISED RECORDS.--WSP 1385: 1939. WDR KY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 353.95 ft above sea level. Auxiliary water-stage recorder at Livermore, 8.0 mi upstream at datum 360.11 ft above sea level. See WDR KY-88-1 for history of changes prior to Sept. 30, 1958.

REMARKS.--No estimated daily discharges. Records good except for discharges below 1000 ft³/s, which are fair. Flow regulated by Green River Lake beginning February 1969, Nolin Lake beginning March 1963, Baren River Lake beginning March 1964, and Rough River Lake, October 1959.

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

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19800	11600	25300	21300	28100	34100	36500	11700	12400	16900	1440	1340
2	15800	10700	30600	19800	22100	47500	34600	11300	17800	16700	1490	1310
3	14300	10300	33200	18700	16200	59000	32800	15300	24000	16500	1490	1440
4	13300	9770	30900	17400	22200	68000	31100	16200	22300	16200	1450	1520
5	11900	8520	24600	17200	36100	75700	29800	15800	16900	16000	1410	1600
6	10300	7640	22500	17600	40500	82300	28100	14500	16300	15000	1390	1520
7	9300	7350	22800	17400	42000	85200	26200	12000	19700	12800	1350	1410
8	8120	10500	22700	16600	41200	85100	25200	10400	25000	11400	1290	1290
9	6020	14700	21300	15700	38000	82300	24600	10800	27100	10700	1270	1270
10	4490	16900	18800	14900	34200	77100	24300	10300	28000	9490	1240	1200
11	3760	16300	17200	14000	31800	70900	23800	9170	26000	7680	1280	1140
12	3150	15200	18900	12900	30200	64300	24100	7540	21600	6240	1310	1090
13	2700	14700	25900	11800	27600	57000	23900	5890	18500	5100	1390	1070
14	2410	14400	24700	11000	26500	52300	23100	4870	27100	4520	1470	1090
15	2310	14000	21300	10500	24900	46200	22100	4380	34000	4220	1460	1110
16	2380	13500	18400	12300	23400	41500	21100	4220	35900	3970	1450	1060
17	3850	13200	27900	13300	19200	38300	20000	4050	36200	3410	1410	983
18	6350	13200	38400	13400	16000	36200	18100	3890	34600	2510	1390	1000
19	7100	14200	41900	12600	15000	39000	16600	3720	31600	2090	1370	1140
20	6770	15000	43200	11100	16500	43000	15100	4200	26900	1860	1430	1180
21	6540	15200	42500	9860	18900	46100	13500	6410	22600	1750	1690	1260
22	6680	15900	39200	10500	21800	47600	12700	8070	21300	1640	2710	1340
23	7430	17800	35400	13600	21500	48000	11800	7700	20500	1670	2850	1400
24	7850	18600	33700	15400	20600	46900	11000	7010	19200	1680	2270	1460
25	8370	18800	36500	21300	19700	44600	10300	5960	18000	1670	1850	1490
26	9150	21700	36800	26100	18600	42100	9690	5620	16900	1560	1610	1540
27	10200	22300	34500	31000	17700	40000	9880	6030	16300	1500	1540	1590
28	12200	20800	31300	30900	16800	38900	14400	6290	16900	1460	1560	1740
29	14500	18600	28700	31500	---	37900	14500	8520	17300	1450	1480	1950
30	14400	18000	24200	32100	---	38100	13000	9870	17000	1440	1420	2010
31	13000	---	22200	31200	---	38000	---	10100	---	1430	1370	---
TOTAL	264430	439380	895500	552960	707300	1653200	621870	261810	687900	200540	48130	40543
MEAN	8530	14650	28890	17840	25260	53330	20730	8445	22930	6469	1553	1351
MAX	19800	22300	43200	32100	42000	85200	36500	16200	36200	16900	2850	2010
MIN	2310	7350	17200	9860	15000	34100	9690	3720	12400	1430	1240	983

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1997, BY WATER YEAR (WY)

MEAN	5679	10810	17430	19420	22940	20990	16010	13500	8889	4703	2957	4447
MAX	19100	22770	46530	41100	52100	53330	42430	50460	23850	12260	8763	27360
(WY)	1980	1980	1979	1974	1989	1997	1979	1983	1981	1989	1971	1979
MIN	2138	4874	2496	1223	7116	7479	2260	1706	541	1386	550	879
(WY)	1988	1972	1981	1981	1977	1981	1986	1988	1988	1988	1991	1987

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1970 - 1997
ANNUAL TOTAL	5051650	6373563	
ANNUAL MEAN	13800	17460	12260
HIGHEST ANNUAL MEAN			22070
LOWEST ANNUAL MEAN			7249
HIGHEST DAILY MEAN	43200	Dec 20	85200
LOWEST DAILY MEAN	1110	Sep 4	983
ANNUAL SEVEN-DAY MINIMUM	1180	Sep 1	1060
INSTANTANEOUS PEAK FLOW			86000
INSTANTANEOUS PEAK STAGE		34.37	Mar 11
INSTANTANEOUS LOW FLOW			280
10 PERCENT EXCEEDS	28600	38000	31000
50 PERCENT EXCEEDS	12200	14700	7650
90 PERCENT EXCEEDS	2210	1440	1480

GREEN RIVER BASIN

03320500 POND RIVER NEAR APEX, KY

LOCATION.--Lat 37°07'20", long 87°19'10", Muhlenberg County, Hydrologic Unit 05110006, on downstream side of right pier of bridge on State Highway 189, 1.1 mi downstream from Coal Creek, 2.1 mi northeast of Apex, 5.7 mi upstream from West Fork, and at mile 62.8.

DRAINAGE AREA.--194 mi².

PERIOD OF RECORD.--August 1940 to current year. October 1953 to September 1971, published as "East Fork Pond River near Apex."

REVISED RECORDS.--WSP 1083: 1942-46. WSP 1555: 1945-46(P), drainage area, WRD KY-93: 1989-91(P).

GAGE.--Water-stage recorder. Datum of gage is 384.53 ft above sea level. Prior to Aug. 21, 1942, nonrecording gage at same site. Prior to Oct. 1, 1974, at datum 6.11 ft higher.

REMARKS.--Estimated daily discharges: Jan. 9-14, 16-31, Feb. 1-20, 22-25, 27-28, Mar. 2-10, May 5-8 and Sept. 13-30. Records poor.

REVISIONS.--The peak discharges and annual maximum (*) reported for water years 1989-96 have been revised as shown in the following table. They supersede figures published in the reports for 1989-96.

Water year	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Water year	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
1989	Dec. 28, 1988	0900	3,120	16.95	1990	Feb. 3, 1990	1300	*4,790	*18.30
1989	Feb. 3, 1989	1900	5,500	18.80	1991	Dec. 19, 1990	1100	*8,270	*20.32
1989	Feb. 15, 1989	1500	*13,300	*22.60	1991	Dec. 22, 1990	0300	4,010	17.71
1989	Mar. 5, 1989	2200	3,180	17.00	1991	Dec. 30, 1990	2000	5,020	18.47
1989	Apr. 4, 1989	0600	3,290	17.10	1991	Feb. 6, 1991	0700	3,880	17.61
1989	July 2, 1989	2200	4,960	18.43	1991	Feb. 18, 1991	1300	2,810	16.64
1990	Jan. 20, 1990	0900	3,710	17.47					

GREEN RIVER BASIN
03320500 POND RIVER NEAR APEX, KY--continued

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	256	175	1180	163	260	7320	231	333	115	52	5.7	3.2
2	111	147	999	139	220	19700	189	225	223	45	7.0	3.0
3	64	123	766	125	180	12900	165	572	157	39	6.5	4.6
4	43	97	435	117	800	6150	146	621	103	33	6.0	5.3
5	34	80	244	225	2400	3100	174	320	79	30	5.6	4.4
6	28	69	253	265	1800	2800	342	260	71	26	5.0	4.0
7	24	104	239	175	1300	2000	304	200	71	22	4.7	4.0
8	21	378	174	134	840	1700	192	140	68	19	4.4	3.6
9	18	325	132	120	600	1300	149	176	70	16	5.4	4.0
10	15	188	109	100	440	1400	129	158	102	18	5.4	2.9
11	14	131	96	88	320	1080	115	127	84	20	5.7	2.4
12	16	99	836	76	240	815	140	107	102	14	6.8	2.0
13	16	81	1280	68	200	672	211	94	262	11	7.5	1.6
14	15	72	849	60	960	1120	172	87	1660	9.7	6.9	1.4
15	13	67	498	142	1100	1060	134	81	1110	10	6.4	1.1
16	11	62	705	300	700	839	121	72	920	9.8	5.9	1.0
17	9.4	58	3700	500	440	600	113	65	1110	9.1	5.4	.90
18	43	70	2550	300	310	1540	108	59	888	8.8	5.0	1.0
19	96	99	1180	220	220	3260	149	53	599	8.4	4.7	.96
20	67	97	1180	180	170	1930	270	53	319	7.9	5.0	.86
21	43	90	807	160	485	1420	273	52	183	7.5	6.3	.72
22	31	92	548	300	900	1000	347	46	136	7.2	7.2	.60
23	75	86	384	600	600	694	282	40	136	6.8	6.6	.50
24	108	76	2030	700	340	493	217	36	101	6.5	6.5	.58
25	82	511	1660	1000	220	346	166	36	77	6.3	6.2	.66
26	140	1180	1340	700	182	506	135	42	149	6.7	5.6	.70
27	443	933	979	600	360	508	528	55	141	6.7	4.9	.62
28	765	657	668	600	700	444	1130	61	91	6.1	4.4	.56
29	866	340	449	500	---	607	889	72	71	5.7	4.0	.48
30	640	350	287	400	---	475	579	81	60	5.4	3.6	.42
31	327	---	202	300	---	314	---	67	---	5.0	3.4	---
TOTAL	4434.4	6837	26759	9357	17287	78093	8100	4391	9258	478.6	173.7	58.06
MEAN	143	228	863	302	617	2519	270	142	309	15.4	5.60	1.94
MAX	866	1180	3700	1000	2400	19700	1130	621	1660	52	7.5	5.3
MIN	9.4	58	96	60	170	314	108	36	60	5.0	3.4	.42
CFSM	.74	1.17	4.45	1.56	3.18	13.0	1.39	.73	1.59	.08	.03	.01
IN.	.85	1.31	5.13	1.79	3.31	14.97	1.55	.84	1.78	.09	.03	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1997, BY WATER YEAR (WY)

MEAN	22.5	177	407	461	633	628	435	318	111	60.9	31.5	59.6
MAX	208	1430	2167	2024	3988	2519	1822	2607	900	440	239	988
(WY)	1986	1958	1979	1950	1989	1997	1979	1984	1969	1989	1984	1979
MIN	.000	.000	.000	3.56	42.6	35.2	39.2	6.46	1.37	.44	.19	.000
(WY)	1954	1954	1964	1981	1941	1941	1986	1941	1964	1964	1993	1953

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1941 - 1997
ANNUAL TOTAL	141353.7	165226.76	
ANNUAL MEAN	386	453	277
HIGHEST ANNUAL MEAN			643
LOWEST ANNUAL MEAN			59.8
HIGHEST DAILY MEAN	3700	19700	28400
LOWEST DAILY MEAN	7.6	.42	.00
ANNUAL SEVEN-DAY MINIMUM	8.1	.57	.00
INSTANTANEOUS PEAK FLOW		22800	35700
INSTANTANEOUS PEAK STAGE		25.46	26.81
ANNUAL RUNOFF (CFSM)	1.99	2.33	1.43
ANNUAL RUNOFF (INCHES)	27.10	31.68	19.39
10 PERCENT EXCEEDS	1200	1000	728
50 PERCENT EXCEEDS	123	125	47
90 PERCENT EXCEEDS	13	4.8	.70

WABASH RIVER BASIN

03378500 WABASH RIVER AT NEW HARMONY, IN

(National stream-quality accounting network station)

LOCATION.--Lat 38°07'55", long 87°56'25", Posey County, Hydrologic Unit 05120113, at bridge on U.S. Highway 66 at New Harmony, and at mile 51.5.
DRAINAGE AREA.--29,234 mi²

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: October 1974 to 1986 and current water year.

SEDIMENT DISCHARGE: Partial record station--October 1974 to 1985

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1980.

WATER TEMPERATURE: October 1974 to September 1980.

REMARKS.--Water discharge obtained from station Wabash River at Mount Carmel, IL. (03377500).

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 805 microsiemens Feb. 15, 1977; minimum, 200 microsiemens Mar. 3, 1979.

WATER TEMPERATURE: Maximum, 32.0° C June 28, 1978, July 14-18, 1980; minimum, freezing point on many days during winter period.

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

DATE	TIME	STREAM FLOW INSTAN- TANEOUS (FTS ³ /S) SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
NOV 1996											
27...	1030	23000	596	7.7	5.5	36	12.5	101	260	66	22
DEC											
09...	1430	40000	502	7.6	4.0	0.8	11.8	91	220	58	17
JAN 1997											
07...	1130	44000	502	7.9	7.0	100	11.8	98	220	59	18
FEB											
11...	1230	70000	411	7.7	2.5	68	12.4	91	180	49	14
MAR											
06...	1600	140000	301	7.8	7.5	150	9.8	82	130	36	9.7
19...	1445	103000	325	7.8	7.0	110	10.9	90	150	40	11
APR											
14...	1530	37500	502	8.0	12.0	33	9.7	90	230	59	19
30...	1115	22000	527	8.0	16.0	17	11.3	117	240	63	20
MAY											
12...	1445	36500	445	7.6	17.0	45	9.7	102	190	51	16
30...	1030	34000	572	7.6	19.0	48	7.6	84	250	63	22
JUN											
11...	1515	100000	390	7.4	19.5	35	7.1	79	170	46	13
19...	1430	77000	375	7.3	22.5	88	8.1	95	160	42	12
JUL											
22...	1410	10000	594	8.0	29.5	15	9.0	121	240	58	23
AUG											
20...	1300	11200	582	8.0	25.5	25	7.9	99	240	58	23
SEP											
23...	1630	5300	629	8.1	21.5	16	10.7	122	250	59	26

WABASH RIVER BASIN

03378500 WABASH RIVER AT NEW HARMONY, IN--Continued

(National stream-quality accounting network station)

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

DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
NOV 1996											
27...	24	4.3	155	127	33	76	0.30	6.1	360	0.020	2.80
DEC											
09...	13	4.1	122	100	25	48	0.20	7.5	289	0.020	4.00
JAN 1997											
07...	13	3.6	209	171	25	50	0.20	7.3	306	0.020	3.80
FEB											
11...	11	3.1	149	122	22	37	0.20	6.3	244	0.030	3.60
MAR											
06...	6.2	3.5	107	88	13	24	0.20	5.5	174	0.020	3.30
19...	6.6	2.8	112	92	14	31	0.20	5.5	191	<0.010	3.00
APR											
14...	13	2.3	162	133	23	53	0.17	4.6	299	0.011	2.79
30...	14	2.4	189	169	24	61	0.19	1.6	308	<0.010	1.65
MAY											
12...	11	2.8	171	140	19	46	0.17	5.0	273	0.038	3.14
30...	17	2.8	214	175	27	59	0.21	2.4	345	0.038	3.51
JUN											
11...	7.2	3.7	133	109	15	30	0.17	7.0	240	0.092	5.14
19...	7.4	3.8	124	101	15	30	0.19	6.4	236	0.059	5.08
JUL											
22...	20	2.8	195	170	31	66	0.23	1.3	345	0.017	1.32
AUG											
20...	22	3.4	203	176	31	64	0.23	1.1	339	0.014	0.669
SEP											
23...	29	3.6	203	166	39	73	0.23	0.65	357	<0.010	0.295

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)
NOV 1996											
27...	0.040	0.40	0.80	0.230	0.070	0.076	4.0	<1.0	1	48	<1.0
DEC											
09...	0.050	0.40	0.90	0.240	0.080	0.084	5.0	<1.0	<1	44	<1.0
JAN 1997											
07...	0.040	0.30	1.1	0.360	0.060	0.086	12	<1.0	<1	46	<1.0
FEB											
11...	0.120	0.40	0.90	0.270	0.070	0.078	3.0	<1.0	<1	38	<1.0
MAR											
06...	0.050	0.40	1.3	0.430	0.070	0.058	4.0	<1.0	<1	32	<1.0
19...	0.070	0.30	1.1	0.400	0.080	0.073	4.0	<1.0	<1	30	<1.0
APR											
14...	0.088	<0.20	0.80	0.164	0.018	0.037	8.6	<1.0	<1	44	<1.0
30...	<0.015	<0.20	0.96	0.116	<0.010	0.001	14	<1.0	<1	45	<1.0
MAY											
12...	<0.015	0.25	0.75	0.201	0.044	0.043	6.1	<1.0	<1	42	<1.0
30...	<0.015	0.46	0.30	0.024	0.033	0.046	3.4	<1.0	<1	51	<1.0
JUN											
11...	0.033	0.51	0.49	0.083	0.054	0.090	4.5	<1.0	1	41	<1.0
19...	0.029	0.31	1.0	0.306	0.079	0.096	6.4	<1.0	1	42	<1.0
JUL											
22...	<0.015	0.26	1.0	0.097	<0.010	0.001	6.5	<1.0	1	52	<1.0
AUG											
20...	<0.015	<0.20	0.81	0.087	<0.010	0.009	4.9	<1.0	1	54	<1.0
SEP											
23...	<0.020	0.27	1.4	0.114	<0.010	0.001	3.4	<1.0	1	52	<1.0

WABASH RIVER BASIN

03378500 WABASH RIVER AT NEW HARMONY, IN--Continued

(National stream-quality accounting network station)

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

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
NOV 1996											
27...	87	<1.0	2.0	<1.0	1.0	7.0	<1.0	10	5.0	2.0	<1
DEC											
09...	44	<1.0	2.0	<1.0	2.0	28	<1.0	4.0	2.0	2.0	<1
JAN 1997											
07...	46	<1.0	1.0	<1.0	2.0	9.0	<1.0	2.0	3.0	2.0	<1
FEB											
11...	31	<1.0	1.0	<1.0	1.0	12	<1.0	3.0	2.0	<1.0	<1
MAR											
06...	26	<1.0	2.0	<1.0	2.0	12	<1.0	2.0	2.0	2.0	<1
19...	28	<1.0	1.0	<1.0	1.0	11	<1.0	3.0	2.0	<1.0	<1
APR											
14...	46	<1.0	2.4	<1.0	<1.0	4.6	<1.0	2.3	2.7	1.7	<1
30...	62	<1.0	2.2	<1.0	1.1	3.1	<1.0	4.2	3.1	1.4	<1
MAY											
12...	46	<1.0	2.5	<1.0	1.7	7.1	<1.0	2.6	2.5	1.0	<1
30...	72	<1.0	4.1	<1.0	1.4	<3.0	<1.0	<1.0	4.9	1.6	<1
JUN											
11...	37	<1.0	<1.0	<1.0	2.3	7.6	<1.0	1.8	1.8	1.6	<1
19...	37	<1.0	<1.0	<1.0	2.5	6.3	<1.0	<1.0	2.1	1.7	<1
JUL											
22...	110	<1.0	3.6	<1.0	2.7	<3.0	<1.0	3.1	6.4	1.4	<1
AUG											
20...	115	<1.0	1.5	<1.0	2.0	<3.0	<1.0	<1.0	6.8	2.5	<1
SEP											
23...	158	<1.0	2.2	<1.0	1.9	<3.0	<1.0	<1.0	8.0	2.1	<1

DATE	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC DIS- SOLVED (MGL AS C) (00681)	CARBON, ORGANIC SUS- PENDED TOTAL (MGL AS C) (00689)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO- CHLOR, WATER, FLTRD REC (UG/L) (49260)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALPHA BHC DIS- SOLVED (UG/L) (34253)
NOV 1996											
27...	<1.0	330	<6	1.0	1.0	4.4	--	0.015	0.070	0.743	<0.002
DEC											
09...	<1.0	190	<6	2.0	<1.0	5.0	2.5	0.019	0.024	0.273	<0.002
JAN 1997											
07...	<1.0	190	<6	2.0	1.0	4.2	1.0	0.010	0.010	0.238	<0.002
FEB											
11...	<1.0	140	<6	1.0	<1.0	4.1	2.2	0.011	0.015	0.145	<0.002
MAR											
06...	<1.0	89	<6	<1.0	<1.0	5.4	4.3	0.013	0.010	0.162	<0.002
19...	<1.0	97	<6	2.0	<1.0	4.0	3.5	0.010	0.009	0.129	<0.002
APR											
14...	<1.0	178	<6	<1.0	<1.0	3.4	1.4	0.021	0.100	0.589	<0.002
30...	<1.0	177	<6	1.3	1.0	3.3	2.9	0.010	0.034	0.381	<0.002
MAY											
12...	<1.0	150	<6	<1.0	<1.0	4.5	2.4	0.277	1.31	6.76	<0.002
30...	<1.0	221	<6	<1.0	1.3	3.9	>5.0	0.169	1.27	6.54	<0.002
JUN											
11...	<1.0	124	<6	<1.0	<1.0	6.3	1.5	0.694	2.91	19.8	<0.002
19...	<1.0	117	<6	1.0	<1.0	5.8	2.2	0.195	0.830	9.32	<0.002
JUL											
22...	<1.0	207	<6	<1.0	1.2	3.8	1.4	0.017	0.045	1.56	<0.002
AUG											
20...	<1.0	211	<6	1.2	1.0	5.1	4.0	0.009	0.017	0.757	<0.002
SEP											
23...	<1.0	260	<6	2.2	1.2	3.4	4.2	0.004	0.009	0.530	<0.002

WABASH RIVER BASIN

03378500 WABASH RIVER AT NEW HARMONY, IN--Continued

(National stream-quality accounting network station)

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

DATE	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	MALA- THON, DIS- SOLVED (UG/L) (39532)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)
	NOV 1996										
27...	<0.002	<0.004	0.179	E0.054	<0.002	<0.001	<0.003	<0.004	<0.005	0.055	0.354
DEC											
09...	<0.002	<0.004	0.071	E0.123	<0.002	<0.001	<0.003	<0.004	<0.005	0.067	0.165
JAN 1997											
07...	<0.002	<0.004	0.056	E0.104	<0.002	<0.001	<0.003	<0.004	<0.005	0.040	0.122
FEB											
11...	<0.002	<0.004	0.015	E0.021	<0.002	<0.001	<0.003	<0.004	<0.005	0.046	0.155
MAR											
06...	<0.002	<0.004	0.045	E0.025	<0.002	<0.001	<0.003	<0.004	<0.005	<0.004	0.264
19...	<0.002	<0.004	0.031	E0.063	<0.002	<0.001	<0.003	<0.004	<0.005	<0.004	0.144
APR											
14...	<0.002	<0.004	0.077	E0.060	<0.002	<0.001	<0.003	<0.004	<0.005	0.076	0.156
30...	<0.002	<0.004	0.094	E0.054	<0.002	<0.001	<0.003	<0.004	<0.005	<0.004	0.159
MAY											
12...	E0.003	<0.004	1.42	E0.193	0.005	<0.001	<0.003	<0.004	<0.005	0.112	2.03
30...	<0.002	<0.004	1.10	E0.223	<0.002	<0.001	<0.003	<0.004	<0.005	0.120	3.33
JUN											
11...	0.021	<0.004	3.33	E0.693	0.006	0.004	<0.003	0.004	<0.005	0.175	10.3
19...	<0.002	0.041	1.42	E0.633	<0.002	<0.001	<0.003	<0.004	<0.005	0.081	4.04
JUL											
22...	<0.002	<0.004	0.632	E0.151	<0.002	<0.001	<0.003	<0.004	<0.005	0.011	0.536
AUG											
20...	<0.002	<0.004	0.130	E0.104	<0.002	<0.001	<0.003	<0.004	<0.005	0.018	0.165
SEP											
23...	<0.002	<0.004	0.077	E0.051	<0.002	<0.001	<0.003	<0.004	<0.005	<0.004	0.187

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THON, DIS- SOLVED (UG/L) (39542)	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)
	NOV 1996										
27...	<0.006	<0.004	<0.007	E0.017	0.043	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017
DEC											
09...	<0.006	<0.004	<0.007	<0.018	0.037	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017
JAN 1997											
07...	<0.006	<0.004	<0.007	E0.009	0.032	<0.002	E0.002	<0.003	<0.002	<0.003	<0.017
FEB											
11...	<0.006	<0.004	<0.007	E0.009	0.014	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017
MAR											
06...	<0.006	<0.004	<0.007	E0.009	0.025	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017
19...	E0.002	<0.004	<0.007	E0.008	0.021	<0.002	<0.003	<0.003	E0.000	<0.003	<0.017
APR											
14...	<0.006	<0.004	<0.007	E0.007	0.203	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017
30...	<0.006	<0.004	<0.007	<0.018	0.100	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017
MAY											
12...	<0.006	<0.004	<0.007	E0.016	0.566	<0.002	<0.003	<0.003	E0.003	<0.003	<0.017
30...	<0.006	<0.004	<0.007	0.019	0.195	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017
JUN											
11...	<0.006	<0.004	<0.007	0.025	1.32	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017
19...	<0.006	<0.004	0.031	0.029	0.487	<0.002	E0.007	E0.152	<0.002	<0.003	<0.017
JUL											
22...	<0.006	<0.004	<0.007	0.035	0.106	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017
AUG											
20...	<0.006	<0.004	<0.007	0.022	0.076	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017
SEP											
23...	<0.006	<0.004	<0.007	0.040	0.041	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017

WABASH RIVER BASIN

03378500 WABASH RIVER AT NEW HARMONY, IN--Continued

(National stream-quality accounting network station)

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

DATE	PENDI-METH-ALIN	ETHO-PROP	LIN-URON	METHYL-AZIN-PHOS	METHYL-PARA-THION	MOL-INATE	NAPROP-AMIDE	PEB-ULATE	PER-METHRIN	PHORATE	PRON-AMIDE
	WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	WAT FLT 0.7 U GF, REC (UG/L) (82686)	WAT FLT 0.7 U GF, REC (UG/L) (82667)	WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	WAT FLT 0.7 U GF, REC (UG/L) (82687)	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
NOV 1996											
27...	<0.004	<0.003	<0.002	<0.001	<0.006	<0.004	0.006	<0.004	<0.005	<0.002	<0.003
DEC											
09...	<0.004	<0.003	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.005	<0.002	<0.003
JAN 1997											
07...	<0.004	<0.003	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.005	<0.002	<0.003
FEB											
11...	<0.004	<0.003	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.005	<0.002	<0.003
MAR											
06...	<0.004	<0.003	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.005	<0.002	<0.003
19...	<0.004	<0.003	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.005	<0.002	<0.003
APR											
14...	<0.004	<0.003	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.005	<0.002	<0.003
30...	<0.004	<0.003	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.005	<0.002	<0.003
MAY											
12...	<0.004	<0.003	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.005	<0.002	<0.003
30...	<0.004	<0.003	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.005	<0.002	<0.003
JUN											
11...	<0.035	<0.003	<0.015	<0.001	<0.006	<0.004	<0.003	<0.004	<0.005	<0.002	<0.003
19...	0.022	<0.003	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.005	<0.002	<0.003
JUL											
22...	<0.004	<0.003	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.005	<0.002	<0.003
AUG											
20...	<0.004	<0.003	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.005	<0.002	<0.003
SEP											
23...	<0.004	<0.003	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.005	<0.002	<0.003
DATE	PRO-PANIL	PRO-PARGITE	TEBU-THIURON	TER-BACIL	TER-BUFOS	TRIAL-LATE	TRI-FLUR-ALIN	THIO-BENCARB	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
	WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	WAT FLT 0.7 U GF, REC (UG/L) (82661)	WATER FLTRD 0.7 U GF, REC (UG/L) (82681)			
NOV 1996											
27...	<0.004	<0.013	<0.010	<0.007	<0.013	<0.001	<0.002	<0.002	100	6210	97
DEC											
09...	<0.004	<0.013	<0.010	<0.007	<0.013	<0.001	<0.002	<0.002	133	14400	91
JAN 1997											
07...	<0.004	<0.013	0.013	<0.007	<0.013	<0.001	<0.002	<0.002	255	30300	94
FEB											
11...	<0.004	<0.013	<0.010	<0.007	<0.013	<0.001	0.004	<0.002	130	24600	93
MAR											
06...	<0.004	<0.013	E0.011	<0.007	<0.013	<0.001	E0.002	<0.002	251	94900	88
19...	<0.004	<0.013	<0.010	<0.007	<0.013	<0.001	<0.002	<0.002	190	52800	96
APR											
14...	<0.004	<0.013	<0.010	<0.007	<0.013	<0.001	<0.002	<0.002	43	4350	88
30...	<0.004	<0.013	E0.007	<0.007	<0.013	<0.001	E0.003	<0.002	43	2550	85
MAY											
12...	<0.004	<0.013	0.015	<0.007	<0.013	<0.001	<0.002	<0.002	126	12400	89
30...	<0.004	<0.013	0.014	<0.007	<0.013	<0.001	<0.002	<0.002	234	21500	95
JUN											
11...	<0.004	<0.013	0.017	<0.007	<0.013	<0.001	0.006	<0.002	163	44000	70
19...	<0.004	<0.013	0.011	<0.007	<0.013	<0.001	0.005	<0.002	--	--	--
JUL											
22...	<0.004	<0.013	<0.010	<0.007	<0.013	<0.001	<0.002	<0.002	59	1590	94
AUG											
20...	<0.004	<0.013	E0.020	<0.007	<0.013	<0.001	<0.002	<0.002	87	2640	89
SEP											
23...	<0.004	<0.013	<0.010	<0.007	<0.013	<0.001	0.005	<0.002	28	401	85

WABASH RIVER BASIN

03378500 WABASH RIVER AT NEW HARMONY, IN--Continued

(National stream-quality accounting network station)

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

DATE	TIME	MEDIUM CODE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
FEB 1997	11...	1238	Q ³	--	0.002	<0.001	<0.025	--	--	--	--	--
MAR 19...	1455	R ⁴	140	39	11	6.6	2.8	114	93	14	31	0.20
JUN 11...	1525	R ²	170	46	13	7.3	3.8	135	110	15	30	0.17
JUN 19...	1438	Q ¹	--	<0.002	<0.001	<0.025	--	--	--	--	--	--
DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)
FEB 1997	11...	0.025	<0.001	<0.005	<0.002	--	--	--	<0.001	<0.30	<0.20	--
MAR 19...	5.5	<0.010	2.90	0.050	0.30	1.1	0.410	0.080	0.074	4.0	<1.0	<1
JUN 11...	7.1	0.095	4.87	<0.015	0.43	0.75	0.188	0.076	0.075	5.0	<1.0	1
JUN 19...	<0.02	<0.001	0.005	<0.002	--	--	--	--	<0.001	<0.30	<0.20	--
DATE	BARIIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)
FEB 1997	11...	<0.20	<0.20	<2.0	<0.30	<0.20	<0.20	<3.0	<0.30	<0.10	<0.20	<0.50
MAR 19...	30	<1.0	25	<1.0	1.0	<1.0	1.0	7.0	<1.0	3.0	1.0	<1.0
JUN 11...	41	<1.0	39	<1.0	<1.0	<1.0	1.7	8.4	<1.0	1.8	2.0	1.6
JUN 19...	<0.20	<0.20	<2.0	<0.30	<0.20	<0.20	<0.20	<3.0	<0.30	<0.10	<0.20	<0.50
DATE	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)	ALA- CHLOR, WATER, DISS, REC. (UG/L) (46342)	ACETO- CHLOR, WATER, FLTRD REC (UG/L) (49260)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALPHA BHC DIS- SOLVED (UG/L) (34253)
FEB 1997	11...	--	<0.20	<0.10	--	<0.50	<0.20	--	--	--	--	--
MAR 19...	<1	<1.0	97	<6	<1.0	<1.0	3.8	3.3	0.010	0.009	0.133	<0.002
JUN 11...	<1	<1.0	125	<6	1.0	<1.0	5.1	1.7	0.688	3.36	20.7	<0.002
JUN 19...	--	<0.20	<0.10	--	<0.50	<0.20	--	--	--	--	--	--

3. Artificial quality-assurance sample
4. Surface-water quality-assurance sample

TRADEWATER RIVER BASIN

03383000 TRADEWATER RIVER AT OLNEY, KY

LOCATION.--Lat 37°13'26", long 87°46'53", Caldwell County, Hydrologic Unit 05140205, on left bank at downstream side of bridge on State Highway 1220 at Olney, 0.9 mi upstream from Cave Creek, 5.4 mi downstream from Flynn Creek, 9.5 mi northeast of Princeton, and at mile 72.7.

DRAINAGE AREA.--255 mi², of which about 9 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--August 1940 to May 1984, March 1985 to current year.

GAGE.--Water-stage recorder. Datum of gage is 362.80 ft above sea level. Prior to July 31, 1942, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Dec. 4, 5, 19-22, Dec. 27 to Jan. 3, Jan. 6-8, 10-15, Feb. 7-8, Mar. 6-12, 21-24, Apr. 5-6 and May 5-6. Records fair except for periods of estimated record, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1937 reached a stage of 19.27 ft, from floodmarks, discharge, 17,000 ft³/s, by slope-area measurement from U.S. Army Corp of Engineers.

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

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	370	1260	1720	280	340	2580	360	617	506	173	3.5	.66
2	168	574	1960	240	281	7720	280	551	1190	144	4.2	.56
3	129	280	1870	220	246	8680	238	1020	1040	123	4.2	.79
4	101	207	1500	201	1000	8460	215	1220	585	100	2.8	.78
5	76	170	1000	221	1710	7000	340	740	328	78	1.8	.76
6	57	154	719	320	1670	5000	1000	440	238	61	1.1	.89
7	43	216	520	260	1400	3800	952	305	208	50	.84	.97
8	32	785	371	220	1000	2600	592	306	252	41	.73	1.1
9	24	777	266	199	760	2000	360	527	431	32	1.0	1.3
10	19	491	215	180	536	2200	264	365	490	26	1.4	3.1
11	16	285	196	160	435	1800	227	256	411	21	1.9	4.2
12	14	212	999	130	356	1300	466	200	267	20	2.5	2.9
13	13	169	1800	120	312	898	897	170	222	18	2.6	2.1
14	12	150	1770	110	641	940	747	157	1100	17	2.6	1.8
15	11	141	1420	120	952	1260	461	149	1640	17	4.1	1.9
16	10	132	1030	415	759	1210	320	134	1570	16	5.9	1.9
17	9.9	126	1870	786	502	799	259	119	1280	17	5.9	2.2
18	19	126	2110	563	363	892	221	106	726	17	5.2	2.3
19	60	128	1900	294	291	2060	312	100	441	16	5.1	2.0
20	66	126	1700	231	254	2270	594	132	271	15	6.2	1.8
21	73	128	1500	231	370	2000	663	115	193	15	6.5	1.5
22	62	139	1100	458	966	1800	834	95	161	19	8.4	1.1
23	95	136	743	963	902	1300	709	81	163	69	7.5	.75
24	133	127	1570	907	554	800	519	68	148	37	6.1	.99
25	123	426	2010	1130	364	524	363	62	112	20	6.4	1.2
26	244	1550	2000	1120	306	476	271	76	100	15	4.4	1.2
27	1120	1680	1700	776	721	577	328	142	619	9.1	2.6	1.1
28	1640	1500	1200	766	1030	520	966	130	736	7.0	1.7	.92
29	1860	935	800	810	---	578	1060	635	379	5.2	1.4	.80
30	1780	681	600	613	---	623	699	462	221	3.5	1.1	.74
31	1650	---	400	422	---	488	---	289	---	3.2	.80	---
TOTAL	10029.9	13811	38559	13466	19021	73155	15517	9769	16028	1205.0	110.47	44.31
MEAN	324	460	1244	434	679	2360	517	315	534	38.9	3.56	1.48
MAX	1860	1680	2110	1130	1710	8680	1060	1220	1640	173	8.4	4.2
MIN	9.9	126	196	110	246	476	215	62	100	3.2	.73	.56
CFSM	1.27	1.81	4.88	1.70	2.66	9.25	2.03	1.24	2.10	.15	.01	.01
IN.	1.46	2.01	5.63	1.96	2.77	10.67	2.26	1.43	2.34	.18	.02	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1997, BY WATER YEAR (WY)

MEAN	30.1	214	453	568	746	793	597	397	142	85.9	37.3	52.0
MAX	324	2178	1963	2268	3529	2360	1851	1878	949	946	275	798
(WY)	1997	1958	1979	1950	1989	1997	1979	1983	1969	1989	1985	1950
MIN	.000	.000	.96	4.85	19.2	61.9	53.7	7.09	1.18	.003	.000	.000
(WY)	1941	1954	1964	1964	1964	1941	1986	1941	1944	1952	1952	1953

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1941 - 1997

ANNUAL TOTAL	167954.7		210715.68			
ANNUAL MEAN	459		577		337	
HIGHEST ANNUAL MEAN					701	
LOWEST ANNUAL MEAN					61.6	
HIGHEST DAILY MEAN	2110	Dec 18	8680	Mar 3	14000	Feb 16 1989
LOWEST DAILY MEAN	2.0	Sep 3	.56	Sep 2	.00	Oct 1 1940
ANNUAL SEVEN-DAY MINIMUM	2.2	Sep 2	.75	Aug 31	.00	Oct 1 1940
INSTANTANEOUS PEAK FLOW			8990	Mar 3	14600	Feb 16 1989
INSTANTANEOUS PEAK STAGE			17.55	Mar 3	18.85	Feb 16 1989
ANNUAL RUNOFF (CFSM)	1.80		2.26		1.32	
ANNUAL RUNOFF (INCHES)	24.50		30.74		17.95	
10 PERCENT EXCEEDS	1500		1570		1140	
50 PERCENT EXCEEDS	187		252		63	
90 PERCENT EXCEEDS	6.1		2.2		1.1	

CUMBERLAND RIVER BASIN

03400798 MARTINS FORK LAKE AT MARTINS FORK DAM NEAR SMITH, KY

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1979 to current year.

pH: October 1979 to current year.

WATER TEMPERATURES: October 1979 to current year.

DISSOLVED OXYGEN: October 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1979.

REMARKS.--Four submersible pumps are located on Martins Fork Dam, at four different elevations referenced to sea level. Pump 1 is located near the bottom of the lake, at an elevation of 1,272 ft; pump 2 is at an elevation of 1,285 ft; pump 3 at an elevation of 1,298 ft; and pump 4 at an elevation of 1,308 ft, occasionally. Each lake level is sampled once every four hours, or six times per day. A maximum and minimum value for each parameter is determined for each level. The monitor was shut down from Nov. 19 to Mar. 17 and Sept. 16-30.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

PUMP NUMBER 1

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	98	89	93	126	122	125	---	---	---	---	---	---
2	93	85	88	126	122	125	---	---	---	---	---	---
3	89	89	89	137	129	133	---	---	---	---	---	---
4	97	93	94	133	118	129	---	---	---	---	---	---
5	97	93	95	122	114	116	---	---	---	---	---	---
6	93	89	92	114	110	112	---	---	---	---	---	---
7	93	89	92	114	110	113	---	---	---	---	---	---
8	93	93	93	129	110	119	---	---	---	---	---	---
9	101	93	98	118	102	108	---	---	---	---	---	---
10	101	97	100	110	82	93	---	---	---	---	---	---
11	101	101	101	95	86	91	---	---	---	---	---	---
12	109	101	104	99	87	93	---	---	---	---	---	---
13	121	109	112	111	107	110	---	---	---	---	---	---
14	125	113	120	119	111	116	---	---	---	---	---	---
15	125	121	124	119	111	115	---	---	---	---	---	---
16	125	121	124	119	115	118	---	---	---	---	---	---
17	125	125	125	123	123	123	---	---	---	---	---	---
18	128	125	127	130	127	128	---	---	---	---	---	---
19	128	125	127	---	---	---	---	---	---	---	---	---
20	132	128	129	---	---	---	---	---	---	---	---	---
21	136	132	133	---	---	---	---	---	---	---	---	---
22	132	125	128	---	---	---	---	---	---	---	---	---
23	128	125	128	---	---	---	---	---	---	---	---	---
24	128	125	126	---	---	---	---	---	---	---	---	---
25	132	125	130	---	---	---	---	---	---	---	---	---
26	132	125	130	---	---	---	---	---	---	---	---	---
27	125	121	123	---	---	---	---	---	---	---	---	---
28	122	118	120	---	---	---	---	---	---	---	---	---
29	122	118	120	---	---	---	---	---	---	---	---	---
30	126	118	122	---	---	---	---	---	---	---	---	---
31	126	122	123	---	---	---	---	---	---	---	---	---
MONTH	136	85	113	137	82	115	---	---	---	---	---	---

CUMBERLAND RIVER BASIN

03400798 MARTINS FORK LAKE AT MARTINS FORK DAM NEAR SMITH, KY--Continued.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

PUMP NUMBER 2

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	98	89	94	133	133	133	---	---	---	---	---	---
2	97	89	94	137	133	134	---	---	---	---	---	---
3	113	93	102	133	129	132	---	---	---	---	---	---
4	105	97	101	133	126	130	---	---	---	---	---	---
5	101	97	98	129	118	126	---	---	---	---	---	---
6	97	93	96	122	118	121	---	---	---	---	---	---
7	101	93	96	122	118	121	---	---	---	---	---	---
8	101	93	98	129	114	122	---	---	---	---	---	---
9	101	93	98	110	94	105	---	---	---	---	---	---
10	101	97	100	106	94	102	---	---	---	---	---	---
11	101	97	98	103	86	96	---	---	---	---	---	---
12	113	101	106	103	87	97	---	---	---	---	---	---
13	117	105	112	111	95	107	---	---	---	---	---	---
14	121	109	118	115	107	111	---	---	---	---	---	---
15	121	113	116	123	115	118	---	---	---	---	---	---
16	125	117	120	119	115	118	---	---	---	---	---	---
17	132	121	127	123	119	121	---	---	---	---	---	---
18	136	128	131	123	123	123	---	---	---	---	---	---
19	140	132	134	---	---	---	---	---	---	---	---	---
20	136	128	133	---	---	---	---	---	---	---	---	---
21	140	132	136	---	---	---	---	---	---	---	---	---
22	140	132	137	---	---	---	---	---	---	---	---	---
23	136	136	136	---	---	---	---	---	---	---	---	---
24	140	136	137	---	---	---	---	---	---	---	---	---
25	140	136	139	---	---	---	---	---	---	---	---	---
26	136	132	134	---	---	---	---	---	---	---	---	---
27	132	128	131	---	---	---	---	---	---	---	---	---
28	137	125	131	---	---	---	---	---	---	---	---	---
29	137	129	132	---	---	---	---	---	---	---	---	---
30	141	133	137	---	---	---	---	---	---	---	---	---
31	133	133	133	---	---	---	---	---	---	---	---	---
MONTH	141	89	118	137	86	118	---	---	---	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	101	97	99	112	108	110
2	---	---	---	---	---	---	105	97	99	131	108	117
3	---	---	---	---	---	---	105	97	100	120	108	114
4	---	---	---	---	---	---	114	102	108	124	99	112
5	---	---	---	---	---	---	114	102	109	107	103	106
6	---	---	---	---	---	---	114	110	111	115	107	109
7	---	---	---	---	---	---	118	110	113	119	107	115
8	---	---	---	---	---	---	114	106	110	118	106	113
9	---	---	---	---	---	---	114	106	109	118	118	118
10	---	---	---	---	---	---	110	106	108	126	114	121
11	---	---	---	---	---	---	111	107	110	129	113	122
12	---	---	---	---	---	---	111	107	110	128	109	120
13	---	---	---	---	---	---	111	107	110	125	113	116
14	---	---	---	---	---	---	115	107	112	121	113	116
15	---	---	---	---	---	---	115	107	112	127	116	122
16	---	---	---	---	---	---	115	107	113	127	116	123
17	---	---	---	---	---	---	119	111	115	127	112	123
18	---	---	---	77	69	73	119	115	116	131	119	125
19	---	---	---	82	70	75	116	112	115	130	119	124
20	---	---	---	82	72	77	120	112	117	130	119	124
21	---	---	---	81	72	75	120	116	117	128	117	121
22	---	---	---	82	74	77	119	111	116	128	117	121
23	---	---	---	83	76	80	119	115	116	124	117	121
24	---	---	---	85	80	83	120	112	116	121	117	119
25	---	---	---	87	82	86	124	116	120	140	117	126
26	---	---	---	91	88	90	128	120	122	128	117	124
27	---	---	---	96	88	91	124	120	122	131	123	128
28	---	---	---	97	93	95	125	117	122	131	123	126
29	---	---	---	95	91	93	121	117	119	120	112	119
30	---	---	---	104	95	99	121	113	116	116	100	106
31	---	---	---	105	96	100	---	---	---	112	92	104
MONTH	---	---	---	105	69	85	128	97	113	140	92	118

CUMBERLAND RIVER BASIN

03400798 MARTINS FORK LAKE AT MARTINS FORK DAM NEAR SMITH, KY--Continued.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	PUMP NUMBER 2									MAX	MIN	MEAN
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN			
	JUNE			JULY			AUGUST					
1	120	96	105	89	81	86	99	99	99	121	116	120
2	116	100	109	85	81	84	103	99	100	125	121	122
3	123	96	112	88	80	84	104	99	100	126	121	123
4	104	96	99	88	84	86	104	100	102	129	122	124
5	100	88	95	88	84	85	108	100	104	126	122	125
6	116	88	103	88	84	86	104	100	103	134	127	129
7	104	84	90	88	84	85	105	100	103	130	127	128
8	91	83	88	87	83	86	109	105	106	135	128	131
9	103	83	89	91	87	88	109	105	108	131	128	130
10	95	87	89	91	87	90	110	105	108	134	127	130
11	91	83	85	91	87	90	110	106	109	134	127	130
12	87	83	85	91	87	89	114	106	110	134	127	131
13	87	81	85	90	86	89	114	106	109	134	130	132
14	97	85	90	90	86	88	114	110	113	138	130	134
15	92	88	90	90	86	88	114	110	112	134	130	133
16	84	72	79	90	86	88	114	110	113	---	---	---
17	88	72	79	90	86	89	114	110	113	---	---	---
18	80	76	79	94	86	90	118	110	114	---	---	---
19	87	71	78	94	86	89	118	110	113	---	---	---
20	91	75	81	94	90	92	118	110	114	---	---	---
21	91	83	86	94	90	92	118	114	115	---	---	---
22	102	82	89	97	89	93	118	110	114	---	---	---
23	94	82	87	93	89	92	118	114	115	---	---	---
24	94	78	86	93	89	92	122	114	117	---	---	---
25	89	77	81	93	89	92	129	118	122	---	---	---
26	89	77	82	97	89	92	125	118	119	---	---	---
27	85	81	82	97	93	96	122	114	118	---	---	---
28	88	77	82	101	93	98	119	119	119	---	---	---
29	84	76	80	101	97	99	123	119	121	---	---	---
30	88	80	84	94	90	93	124	120	122	---	---	---
31	---	---	---	99	94	97	135	120	122	---	---	---
MONTH	123	71	88	101	80	90	135	99	112	138	116	128
YEAR	141	69	107									

DAY	PUMP NUMBER 3											
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	145	140	142	137	133	136	---	---	---	---	---	---
2	144	140	142	137	133	135	---	---	---	---	---	---
3	148	140	143	133	133	133	---	---	---	---	---	---
4	144	144	144	133	129	130	---	---	---	---	---	---
5	144	140	141	129	129	129	---	---	---	---	---	---
6	140	140	140	129	126	128	---	---	---	---	---	---
7	144	140	142	129	126	128	---	---	---	---	---	---
8	144	132	138	129	114	123	---	---	---	---	---	---
9	140	136	139	114	98	110	---	---	---	---	---	---
10	140	132	135	110	98	105	---	---	---	---	---	---
11	132	125	128	107	98	100	---	---	---	---	---	---
12	132	128	129	107	99	102	---	---	---	---	---	---
13	136	128	132	111	103	106	---	---	---	---	---	---
14	132	125	128	115	111	112	---	---	---	---	---	---
15	132	125	129	119	115	117	---	---	---	---	---	---
16	136	128	131	119	115	117	---	---	---	---	---	---
17	136	128	132	123	119	121	---	---	---	---	---	---
18	136	132	134	123	119	122	---	---	---	---	---	---
19	140	132	136	---	---	---	---	---	---	---	---	---
20	140	132	137	---	---	---	---	---	---	---	---	---
21	140	136	138	---	---	---	---	---	---	---	---	---
22	140	136	137	---	---	---	---	---	---	---	---	---
23	140	136	139	---	---	---	---	---	---	---	---	---
24	140	136	138	---	---	---	---	---	---	---	---	---
25	140	136	137	---	---	---	---	---	---	---	---	---
26	140	136	138	---	---	---	---	---	---	---	---	---
27	140	136	137	---	---	---	---	---	---	---	---	---
28	141	136	138	---	---	---	---	---	---	---	---	---
29	141	137	138	---	---	---	---	---	---	---	---	---
30	141	137	138	---	---	---	---	---	---	---	---	---
31	141	137	139	---	---	---	---	---	---	---	---	---
MONTH	148	125	137	137	98	120	---	---	---	---	---	---

CUMBERLAND RIVER BASIN

03400798 MARTINS FORK LAKE AT MARTINS FORK DAM NEAR SMITH, KY--Continued.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	PUMP NUMBER 4			PUMP NUMBER 4			PUMP NUMBER 4			PUMP NUMBER 4		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	148	141	144	---	---	---	---	---	---	---	---	---
2	144	140	142	---	---	---	---	---	---	---	---	---
3	144	140	142	---	---	---	---	---	---	---	---	---
4	148	140	144	---	---	---	---	---	---	---	---	---
5	148	144	145	---	---	---	---	---	---	---	---	---
6	144	140	143	---	---	---	---	---	---	---	---	---
7	144	140	141	---	---	---	---	---	---	---	---	---
8	144	140	143	---	---	---	---	---	---	---	---	---
9	140	140	140	---	---	---	---	---	---	---	---	---
10	140	132	137	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	148	132	142	---	---	---	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	130	127	128
7	---	---	---	---	---	---	---	---	---	138	127	132
8	---	---	---	---	---	---	---	---	---	133	129	131
9	---	---	---	---	---	---	---	---	---	133	133	133
10	---	---	---	---	---	---	---	---	---	133	129	132
11	---	---	---	---	---	---	---	---	---	136	129	133
12	---	---	---	---	---	---	---	---	---	132	128	131
13	---	---	---	---	---	---	---	---	---	136	128	133
14	---	---	---	---	---	---	---	---	---	136	132	133
15	---	---	---	---	---	---	---	---	---	135	131	134
16	---	---	---	---	---	---	---	---	---	135	131	134
17	---	---	---	---	---	---	---	---	---	135	131	132
18	---	---	---	---	---	---	---	---	---	139	131	135
19	---	---	---	---	---	---	---	---	---	142	134	137
20	---	---	---	---	---	---	---	---	---	138	132	135
21	---	---	---	---	---	---	---	---	---	140	132	135
22	---	---	---	---	---	---	---	---	---	140	132	135
23	---	---	---	---	---	---	---	---	---	144	132	139
24	---	---	---	---	---	---	---	---	---	140	136	139
25	---	---	---	---	---	---	---	---	---	156	136	142
26	---	---	---	---	---	---	---	---	---	140	135	137
27	---	---	---	---	---	---	---	---	---	139	135	137
28	---	---	---	---	---	---	---	---	---	143	135	137
29	---	---	---	---	---	---	---	---	---	139	135	138
30	---	---	---	---	---	---	---	---	---	143	135	138
31	---	---	---	---	---	---	---	---	---	143	135	139
MONTH	---	---	---	---	---	---	---	---	---	156	127	135

CUMBERLAND RIVER BASIN

03400798 MARTINS FORK LAKE AT MARTINS FORK DAM NEAR SMITH, KY--Continued.

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

PUMP NUMBER 4

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	7.1	7.1	7.0	6.9	6.8	6.7	---	---
2	---	---	---	---	7.2	7.0	7.0	6.9	6.8	6.7	---	---
3	---	---	---	---	7.1	7.0	6.9	6.9	6.8	6.7	---	---
4	---	---	---	---	7.1	7.0	6.9	6.8	6.8	6.7	---	---
5	---	---	---	---	7.0	7.0	6.9	6.8	6.9	6.8	---	---
6	---	---	7.1	7.0	7.1	7.0	6.9	6.8	6.9	6.8	---	---
7	---	---	7.1	7.1	7.1	7.0	6.9	6.8	6.9	6.8	---	---
8	---	---	7.2	7.1	7.1	7.1	7.0	6.9	6.9	6.8	---	---
9	---	---	7.3	7.2	7.1	7.0	6.9	6.9	6.8	6.8	---	---
10	---	---	7.2	7.1	7.1	7.0	6.9	6.9	6.9	6.8	---	---
11	---	---	7.2	7.1	7.2	7.0	6.9	6.9	6.9	6.8	---	---
12	---	---	7.2	7.0	7.1	7.0	6.9	6.8	6.8	6.8	---	---
13	---	---	7.2	7.1	7.1	7.0	6.9	6.8	6.8	6.8	---	---
14	---	---	7.2	7.0	7.1	7.0	6.9	6.8	6.9	6.8	---	---
15	---	---	7.2	7.1	7.1	6.9	6.9	6.8	7.0	6.9	---	---
16	---	---	7.2	7.1	7.0	7.0	6.9	6.8	7.1	6.9	---	---
17	---	---	7.2	7.2	7.1	6.9	6.8	6.8	7.1	7.0	---	---
18	---	---	7.2	7.1	7.0	7.0	6.8	6.8	7.1	7.0	---	---
19	---	---	7.3	7.1	7.0	6.9	6.8	6.8	7.2	7.0	---	---
20	---	---	7.3	7.2	7.0	6.9	6.8	6.8	7.3	7.1	---	---
21	---	---	7.3	7.2	7.0	6.9	6.8	6.8	7.2	7.1	---	---
22	---	---	7.2	7.2	7.0	7.0	6.9	6.8	7.2	7.1	---	---
23	---	---	7.2	7.2	7.0	6.9	6.9	6.9	7.2	7.1	---	---
24	---	---	7.2	7.2	7.0	6.9	6.9	6.9	7.2	7.0	---	---
25	---	---	7.2	7.1	7.0	6.9	6.9	6.9	7.3	7.2	---	---
26	---	---	7.3	7.1	6.9	6.9	6.9	6.9	---	---	---	---
27	---	---	7.3	7.2	6.9	6.9	6.9	6.8	---	---	---	---
28	---	---	7.3	7.2	6.9	6.9	6.9	6.8	---	---	---	---
29	---	---	7.2	7.2	6.9	6.9	6.9	6.7	---	---	---	---
30	---	---	7.2	7.1	7.0	6.9	6.8	6.7	---	---	---	---
31	---	---	7.1	7.1	---	---	6.8	6.7	---	---	---	---
MONTH	---	---	7.3	7.0	7.2	6.9	7.0	6.7	7.3	6.7	---	---
YEAR	7.3	6.6										

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

PUMP NUMBER 1

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	19.8	19.9	16.9	16.7	16.8	---	---	---	---	---	---
2	19.8	19.6	19.8	16.9	16.7	16.9	---	---	---	---	---	---
3	19.9	19.7	19.7	17.1	16.7	16.9	---	---	---	---	---	---
4	19.9	19.7	19.8	16.5	15.9	16.3	---	---	---	---	---	---
5	19.9	19.6	19.7	15.7	15.3	15.4	---	---	---	---	---	---
6	19.6	19.4	19.5	15.1	14.7	14.9	---	---	---	---	---	---
7	19.4	19.1	19.3	14.9	14.7	14.8	---	---	---	---	---	---
8	19.3	18.9	19.1	15.5	14.7	15.1	---	---	---	---	---	---
9	19.1	18.9	19.0	15.5	15.1	15.4	---	---	---	---	---	---
10	18.9	18.6	18.8	14.7	14.5	14.6	---	---	---	---	---	---
11	18.8	18.8	18.8	14.3	13.7	14.1	---	---	---	---	---	---
12	18.8	18.5	18.7	13.9	13.3	13.6	---	---	---	---	---	---
13	18.5	18.3	18.3	13.3	13.1	13.2	---	---	---	---	---	---
14	18.3	18.1	18.2	13.1	12.7	12.9	---	---	---	---	---	---
15	18.0	17.8	17.9	12.9	12.5	12.8	---	---	---	---	---	---
16	17.8	17.8	17.8	12.9	12.5	12.7	---	---	---	---	---	---
17	17.8	17.7	17.8	12.5	12.3	12.4	---	---	---	---	---	---
18	17.9	17.7	17.8	12.3	12.3	12.3	---	---	---	---	---	---
19	17.9	17.7	17.8	---	---	---	---	---	---	---	---	---
20	17.7	17.6	17.6	---	---	---	---	---	---	---	---	---
21	18.1	17.4	17.8	---	---	---	---	---	---	---	---	---
22	17.9	17.3	17.6	---	---	---	---	---	---	---	---	---
23	17.5	17.3	17.3	---	---	---	---	---	---	---	---	---
24	17.5	17.3	17.4	---	---	---	---	---	---	---	---	---
25	17.7	17.3	17.4	---	---	---	---	---	---	---	---	---
26	17.3	17.3	17.3	---	---	---	---	---	---	---	---	---
27	17.1	17.1	17.1	---	---	---	---	---	---	---	---	---
28	16.9	16.9	16.9	---	---	---	---	---	---	---	---	---
29	17.1	16.7	16.9	---	---	---	---	---	---	---	---	---
30	16.9	16.7	16.8	---	---	---	---	---	---	---	---	---
31	16.9	16.7	16.8	---	---	---	---	---	---	---	---	---
MONTH	20.0	16.7	18.2	17.1	12.3	14.5	---	---	---	---	---	---