

03401000 CUMBERLAND RIVER NEAR HARLAN, KY

LOCATION.--Lat 36°50'48", long 83°21'21", Harlan County, Hydrologic Unit 05130101, on right downstream side of bridge on State Highway 840 at Loyall, 1.6 mi upstream from Fourmile Branch, 1.8 mi west of Harlan, 2.3 mi downstream from confluence of Poor and Clover Forks, and at mile 691.9.

DRAINAGE AREA.--374 mi².

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

REVISED RECORDS.--WSP 953: 1940(M). WSP 1173: 1947(M).

GAGE.--Water-stage recorder with telemetry. Datum of gage is 1,139.10 ft above NGVD of 1929. Prior to Aug. 28, 1984, datum of gage 1.00 ft higher. Prior to Nov. 4, 1941, nonrecording gage at same site and datum.

REMARKS.--Records good except for those estimated, which are poor. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979.

COOPERATION.--U.S. Army Corps of Engineers, Nashville District.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	223	318	7,360	490	1,030	1,360	1,240	2,940	218	143	226	104
2	214	317	2,900	460	921	1,120	3,600	1,850	254	160	178	85
3	211	292	1,760	443	909	1,000	4,090	1,640	237	140	163	79
4	189	2,480	1,370	508	826	908	2,280	1,330	212	129	155	74
5	178	2,120	1,160	512	703	995	1,820	962	191	139	151	71
6	166	1,270	1,440	548	667	1,080	1,500	867	182	174	183	68
7	219	998	2,990	510	633	1,040	1,320	691	205	753	176	65
8	222	843	2,500	1,190	638	1,350	1,160	632	218	1,170	170	69
9	216	703	2,880	1,360	682	1,370	905	577	391	458	160	68
10	235	508	4,090	1,040	730	1,250	820	538	304	283	144	69
11	221	472	3,390	1,150	675	1,120	763	546	340	214	123	69
12	211	1,130	2,740	1,700	571	922	765	517	251	181	113	66
13	231	1,200	2,010	1,640	656	872	1,280	478	208	199	131	64
14	240	943	1,600	2,080	1,320	863	2,160	455	192	341	155	64
15	206	786	1,260	1,790	1,600	889	1,360	448	244	653	123	66
16	205	744	1,130	1,410	1,380	902	1,180	407	184	492	119	64
17	190	806	1,150	1,160	1,170	896	1,020	322	163	435	153	77
18	186	746	1,060	985	1,030	874	929	301	155	707	189	83
19	327	711	1,010	910	934	824	847	292	150	881	165	69
20	299	538	910	863	895	809	712	692	149	981	143	75
21	220	508	835	786	946	765	663	635	149	1,120	131	63
22	259	468	703	622	912	723	587	535	142	844	112	60
23	258	517	1,130	586	856	835	610	513	138	305	158	61
24	302	1,070	1,140	e530	767	824	671	424	132	231	155	60
25	292	1,530	942	e520	721	796	658	368	127	194	147	56
26	264	1,250	808	e488	672	713	662	333	124	173	151	73
27	208	1,120	715	e465	639	697	877	305	123	164	151	98
28	386	1,040	779	e434	960	1,840	815	283	134	176	153	76
29	420	883	743	629	---	2,320	1,110	264	157	257	155	83
30	430	1,070	706	1,170	---	1,840	3,060	248	167	164	110	92
31	371	---	534	1,110	---	1,460	---	230	---	160	106	---
TOTAL	7,799	27,381	53,745	28,089	24,443	33,257	39,464	20,623	5,841	12,421	4,649	2,171
MEAN	252	913	1,734	906	873	1,073	1,315	665	195	401	150	72.4
MAX	430	2,480	7,360	2,080	1,600	2,320	4,090	2,940	391	1,170	226	104
MIN	166	292	534	434	571	697	587	230	123	129	106	56
CFSM	0.67	2.44	4.64	2.42	2.33	2.87	3.52	1.78	0.52	1.07	0.40	0.19
IN.	0.78	2.72	5.35	2.79	2.43	3.31	3.93	2.05	0.58	1.24	0.46	0.22

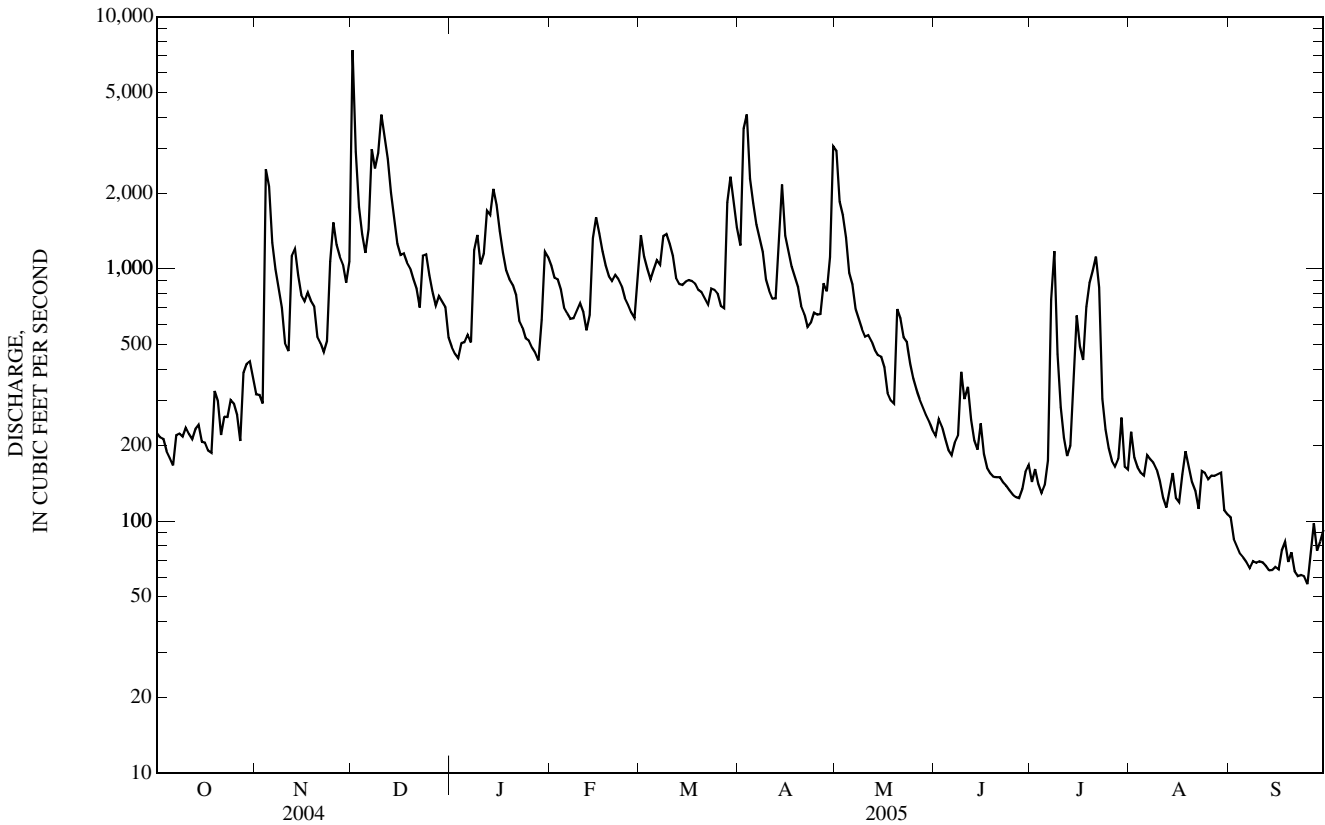
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2005, BY WATER YEAR (WY)

MEAN	187	499	864	996	1,281	1,278	1,067	833	491	250	212	191
MAX	1,129	1,532	2,704	1,783	3,259	2,684	2,986	2,003	1,789	453	534	1,018
(WY)	(1990)	(1997)	(1992)	(1994)	(1994)	(1994)	(1998)	(1984)	(1989)	(1991)	(1996)	(2004)
MIN	30.0	51.1	88.9	63.5	554	334	211	330	96.1	57.3	52.7	38.3
(WY)	(1998)	(1999)	(1981)	(1981)	(1988)	(1988)	(1986)	(1982)	(1988)	(1988)	(1988)	(1999)

03401000 CUMBERLAND RIVER NEAR HARLAN, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1980 - 2005	
ANNUAL TOTAL	333,558		259,883		676	
ANNUAL MEAN	911		712		333	
HIGHEST ANNUAL MEAN					1,130	1994
LOWEST ANNUAL MEAN					333	1988
HIGHEST DAILY MEAN	9,380	Mar 6	7,360	Dec 1	21,300	Mar 18, 2002
LOWEST DAILY MEAN	80	Sep 6	56	Sep 25	16	Oct 9, 1997
ANNUAL SEVEN-DAY MINIMUM	93	Sep 1	63	Sep 19	17	Oct 4, 1997
MAXIMUM PEAK FLOW			11,000	Dec 1	64,500	Apr 5, 1977
MAXIMUM PEAK STAGE			11.76	Dec 1	30.20	Apr 5, 1977
ANNUAL RUNOFF (CFSM)	2.44		1.90		1.81	
ANNUAL RUNOFF (INCHES)	33.18		25.85		24.55	
10 PERCENT EXCEEDS	1,880		1,370		1,490	
50 PERCENT EXCEEDS	606		535		373	
90 PERCENT EXCEEDS	174		123		70	

e Estimated



03402000 YELLOW CREEK NEAR MIDDLESBORO, KY

LOCATION.--Lat 36°40'05", long 83°41'19", Bell County, Hydrologic Unit 05130101, on left bank 35 ft downstream from bridge on U.S. Highway 25E, 1.2 mi downstream from Browne Branch, 4.6 mi north of Middlesboro, and at mile 11.4.

DRAINAGE AREA.--60.6 mi². See WRD-KY-98-1 for history of changes.

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

REVISED RECORDS.--WSP 953: 1941(M). WSP 973: 1942(M). WSP 1436: Drainage area. WRD KY 1969: 1965(M), 1967(M).

GAGE.--Water-stage recorder with telemetry and crest-stage gages. Datum of gage is 1,097.99 ft above NGVD of 1929. See WDR KY-90-1 for history of changes prior to Sept. 30, 1973.

REMARKS.--Records good except for those estimated, which are fair. Occasional regulation from Fern Lake.

COOPERATION.--U.S. Army Corps of Engineers, Nashville District and Kentucky Natural Resources and Environmental Protection Cabinet.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 1	0600	*2,870	*12.28	No other peak above base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	56	1,830	65	113	251	222	408	32	30	28	15
2	39	53	512	69	107	193	1,110	234	41	23	18	12
3	38	48	280	66	265	160	657	162	35	16	17	11
4	36	367	197	62	210	138	348	121	31	16	15	9.9
5	34	229	149	61	169	191	239	e96	29	24	17	9.6
6	33	132	187	79	136	150	181	e90	28	17	14	9.0
7	32	94	787	75	114	140	154	78	29	36	15	9.2
8	32	74	494	240	107	212	189	70	28	26	21	8.9
9	31	62	984	203	95	165	137	63	29	17	22	8.5
10	31	57	896	162	104	147	116	59	26	15	17	8.1
11	31	54	804	390	87	137	101	55	25	16	16	7.8
12	36	836	502	577	82	124	145	51	25	17	16	7.9
13	80	384	318	366	193	106	248	47	27	57	14	7.4
14	48	211	226	615	570	97	483	46	24	288	15	8.7
15	46	144	175	334	435	86	277	50	24	115	27	8.3
16	40	109	145	e248	277	99	193	42	22	48	20	9.0
17	37	92	123	e170	194	101	149	40	20	40	26	10
18	57	80	109	e140	149	92	122	39	19	98	56	9.1
19	141	72	99	117	125	91	104	43	19	88	33	8.4
20	70	73	84	107	177	88	89	237	18	73	20	6.9
21	55	66	81	97	273	85	79	90	18	46	17	8.2
22	47	58	76	88	257	82	77	62	18	e125	15	8.6
23	44	71	196	77	205	87	91	56	17	46	14	8.7
24	53	909	129	68	173	79	80	48	16	33	14	8.5
25	44	711	109	69	140	80	68	43	16	28	13	8.6
26	42	300	101	71	118	72	64	40	16	24	13	32
27	52	207	88	63	105	86	77	37	25	22	13	20
28	52	173	80	57	232	1,370	63	36	28	21	13	11
29	111	124	77	129	---	515	425	33	17	21	21	20
30	86	366	74	152	---	284	610	33	17	19	19	15
31	66	---	71	126	---	219	---	32	---	31	27	---
TOTAL	1,583	6,212	9,983	5,143	5,212	5,727	6,898	2,541	719	1,476	606	325.3
MEAN	51.1	207	322	166	186	185	230	82.0	24.0	47.6	19.5	10.8
MAX	141	909	1,830	615	570	1,370	1,110	408	41	288	56	32
MIN	31	48	71	57	82	72	63	32	16	15	13	6.9
CFSM	0.84	3.42	5.31	2.74	3.07	3.05	3.79	1.35	0.40	0.79	0.32	0.18
IN.	0.97	3.81	6.13	3.16	3.20	3.52	4.23	1.56	0.44	0.91	0.37	0.20

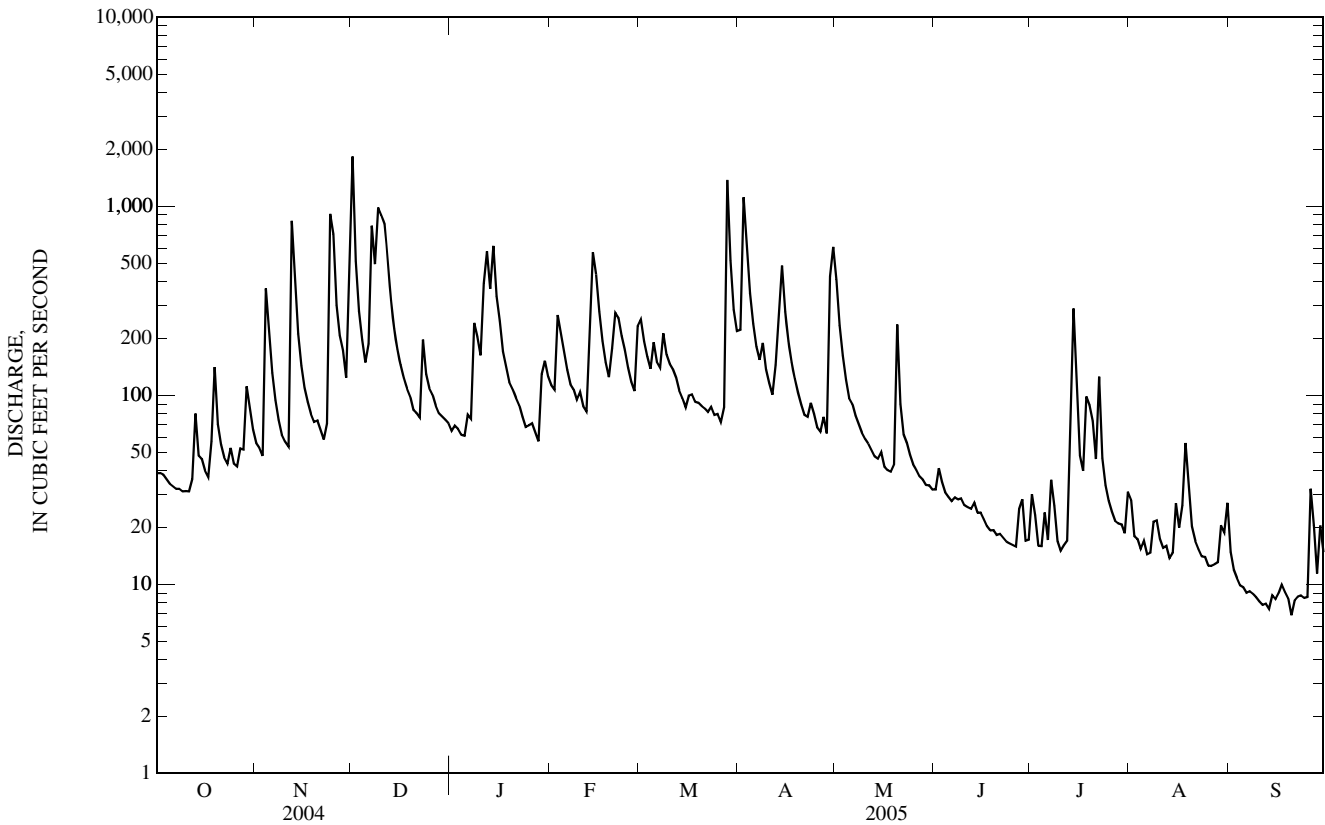
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2005, BY WATER YEAR (WY)

	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952
MEAN	24.5	79.3	162	205	232	249	183	115	65.7	51.2	35.9	24.4
MAX	155	416	609	551	677	610	569	539	298	345	197	324
(WY)	(1978)	(1974)	(1991)	(1974)	(1991)	(1975)	(1998)	(1984)	(1989)	(1967)	(1942)	(2004)
MIN	3.05	5.35	7.34	14.4	14.9	47.6	34.9	17.2	13.8	4.26	6.00	3.02
(WY)	(1954)	(1941)	(1966)	(1981)	(1941)	(1988)	(1986)	(1941)	(1988)	(1944)	(1951)	(1954)

03402000 YELLOW CREEK NEAR MIDDLESBORO, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1941 - 2005	
ANNUAL TOTAL	57,849		46,425.3		118	
ANNUAL MEAN	158		127		219	
HIGHEST ANNUAL MEAN					1991	
LOWEST ANNUAL MEAN					1941	
HIGHEST DAILY MEAN	3,400	Sep 8	1,830	Dec 1	7,000	Apr 4, 1977
LOWEST DAILY MEAN	19	Jul 24	6.9	Sep 20	1.2	Oct 7, 1952
ANNUAL SEVEN-DAY MINIMUM	23	Jul 19	8.1	Sep 9	1.6	Sep 17, 1955
MAXIMUM PEAK FLOW			2,870	Dec 1	11,700	Apr 4, 1977
MAXIMUM PEAK STAGE			12.28	Dec 1	23.35	Apr 4, 1977
INSTANTANEOUS LOW FLOW					0.00	Sep 26, 1952
ANNUAL RUNOFF (CFSM)	2.61		2.10		1.95	
ANNUAL RUNOFF (INCHES)	35.51		28.50		26.54	
10 PERCENT EXCEEDS	277		277		250	
50 PERCENT EXCEEDS	73		69		46	
90 PERCENT EXCEEDS	30		15		7.8	

e Estimated



03402900 CUMBERLAND RIVER AT PINE STREET 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 with telemetry. Datum of gage is 970.00 ft above sea level, Sandy Hook datum.

REMARKS.--Records good. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979.

COOPERATION.--U.S. Army Corps of Engineers, Nashville District.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

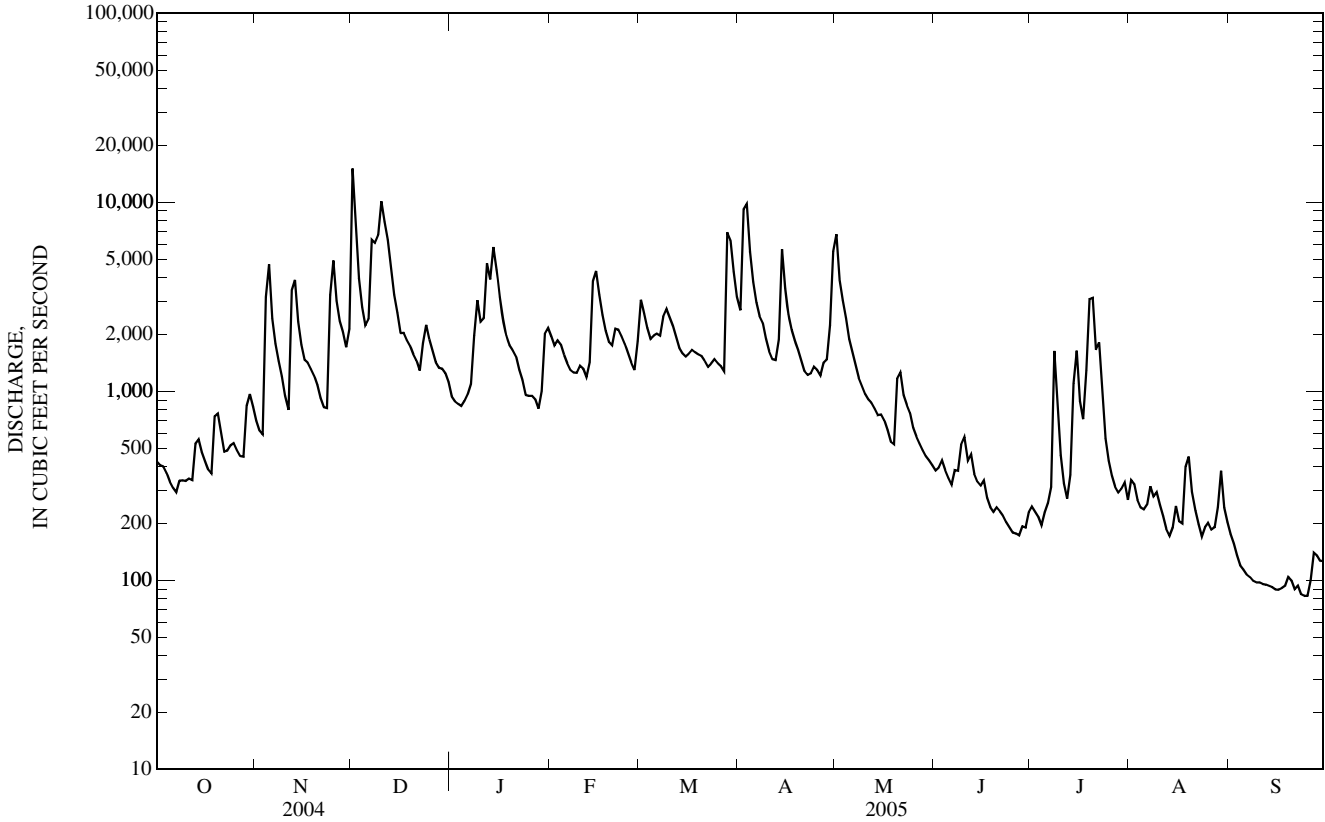
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	424	698	15,000	937	1,950	3,040	2,680	6,760	382	245	339	175
2	407	617	8,260	885	1,740	2,580	9,150	3,880	395	230	323	156
3	399	590	3,960	857	1,860	2,160	9,780	3,020	430	217	267	135
4	370	3,150	2,780	836	1,760	1,900	5,480	2,440	383	196	242	120
5	333	4,690	2,230	889	1,560	1,960	3,780	1,880	348	229	237	114
6	309	2,430	2,410	964	1,400	2,010	2,950	1,620	321	256	251	107
7	292	1,780	6,330	1,090	1,300	1,970	2,490	1,380	383	311	314	104
8	336	1,450	6,090	1,980	1,260	2,480	2,300	1,180	379	1,630	277	99
9	338	1,200	6,690	3,030	1,250	2,720	1,890	1,070	524	817	292	97
10	335	947	10,100	2,340	1,360	2,460	1,620	968	572	460	251	97
11	345	796	7,870	2,440	1,320	2,220	1,480	905	429	325	218	96
12	338	3,430	6,340	4,740	1,190	1,940	1,460	869	463	270	187	95
13	526	3,870	4,420	3,910	1,420	1,700	1,880	810	366	361	172	94
14	555	2,340	3,230	5,780	3,810	1,590	5,630	749	332	1,100	190	92
15	474	1,760	2,600	4,380	4,320	1,530	3,500	755	317	1,640	248	90
16	426	1,470	2,030	3,150	3,240	1,580	2,560	702	336	887	205	89
17	384	1,420	2,040	2,430	2,540	1,650	2,120	622	273	712	200	91
18	367	1,310	1,860	1,970	2,090	1,600	1,850	543	243	1,290	398	93
19	737	1,210	1,740	1,750	1,830	1,560	1,660	526	229	3,070	451	104
20	764	1,080	1,570	1,640	1,750	1,530	1,450	1,170	243	3,120	294	100
21	603	922	1,450	1,530	2,140	1,440	1,270	1,260	232	1,660	233	90
22	480	825	1,290	1,290	2,120	1,350	1,220	952	220	1,810	198	94
23	486	815	1,800	1,150	1,950	1,400	1,240	848	203	995	170	84
24	516	3,230	2,250	957	1,780	1,480	1,350	768	191	562	191	83
25	532	4,920	1,880	944	1,590	1,410	1,290	640	179	429	201	83
26	488	3,010	1,640	945	1,420	1,360	1,210	577	177	358	185	100
27	455	2,340	1,420	906	1,300	1,280	1,420	529	173	313	190	140
28	450	2,060	1,330	810	1,840	6,930	1,470	487	193	292	243	135
29	838	1,710	1,320	1,000	---	6,300	2,240	453	190	305	380	126
30	965	2,140	1,250	2,010	---	4,290	5,510	430	229	329	241	127
31	827	---	1,120	2,160	---	3,150	---	406	---	267	203	---
TOTAL	15,099	58,210	114,300	59,700	53,090	70,570	83,930	39,199	9,335	24,686	7,791	3,210
MEAN	487	1,940	3,687	1,926	1,896	2,276	2,798	1,264	311	796	251	107
MAX	965	4,920	15,000	5,780	4,320	6,930	9,780	6,760	572	3,120	451	175
MIN	292	590	1,120	810	1,190	1,280	1,210	406	173	196	170	83
CFSM	0.63	2.52	4.79	2.50	2.46	2.96	3.63	1.64	0.40	1.03	0.33	0.14
IN.	0.73	2.81	5.52	2.88	2.56	3.41	4.05	1.89	0.45	1.19	0.38	0.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2005, BY WATER YEAR (WY)

MEAN	237	885	1,910	2,177	2,543	2,931	2,454	1,500	913	441	426	363
MAX	670	3,009	5,204	4,201	6,720	5,367	5,977	3,091	2,369	796	923	2,189
(WY)	(1997)	(1997)	(1992)	(1994)	(1994)	(1994)	(1998)	(1995)	(2003)	(2005)	(1996)	(2004)
MIN	87.4	104	342	640	964	1,285	817	796	245	176	107	59.7
(WY)	(1999)	(1999)	(2000)	(2000)	(2002)	(2003)	(1995)	(1993)	(2002)	(1993)	(1995)	(1999)

03402900 CUMBERLAND RIVER AT PINE STREET BRIDGE AT PINEVILLE, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1992 - 2005	
ANNUAL TOTAL	661,314		539,120		1,393	
ANNUAL MEAN	1,807		1,477		792	
HIGHEST ANNUAL MEAN					2,241	1994
LOWEST ANNUAL MEAN					792	2000
HIGHEST DAILY MEAN	19,700	Mar 6	15,000	Dec 1	41,500	Mar 18, 2002
LOWEST DAILY MEAN	172	Sep 5	83	Sep 24	48	Sep 20, 1999
ANNUAL SEVEN-DAY MINIMUM	187	Sep 1	91	Sep 20	49	Sep 16, 1999
MAXIMUM PEAK FLOW			18,500	Dec 1	46,700	Mar 18, 2002
MAXIMUM PEAK STAGE			27.00	Dec 1	47.32	Mar 18, 2002
INSTANTANEOUS LOW FLOW			82	Sep 23	47	Sep 20, 1999
ANNUAL RUNOFF (CFSM)	2.35		1.92		1.81	
ANNUAL RUNOFF (INCHES)	31.95		26.05		24.57	
10 PERCENT EXCEEDS	3,900		3,150		3,000	
50 PERCENT EXCEEDS	1,120		968		698	
90 PERCENT EXCEEDS	326		186		124	



03403500 CUMBERLAND RIVER AT BARBOURVILLE, KY

LOCATION.--Lat 36°51'45", long 83°53'31", Knox County, Hydrologic Unit 05130101, on right bank 100 ft upstream from bridge on State Highway 11, at Barbourville, 0.4 mi upstream from Richland Creek, and at mile 635.2.

DRAINAGE AREA.--960 mi².

PERIOD OF RECORD.--October 1922 to September 1931, April 1948 to July 2, 1993, October 1995 to current year. (discontinued). Monthly discharge only April to June 1948, published in WSP 1306.

REVISED RECORDS.--WSP 603: 1923-24. WSP 1336: 1923(M). 1927, 1929, 1950-51. WSP 1436: Drainage area.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 942.97 ft above NGVD of 1929. See WRD KY-90-1 for history of changes prior to Oct. 17, 1975.

REMARKS.--Records good. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979. Diversions by City of Barbourville for municipal water supply.

COOPERATION.--U.S. Army Corps of Engineers, Nashville District.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

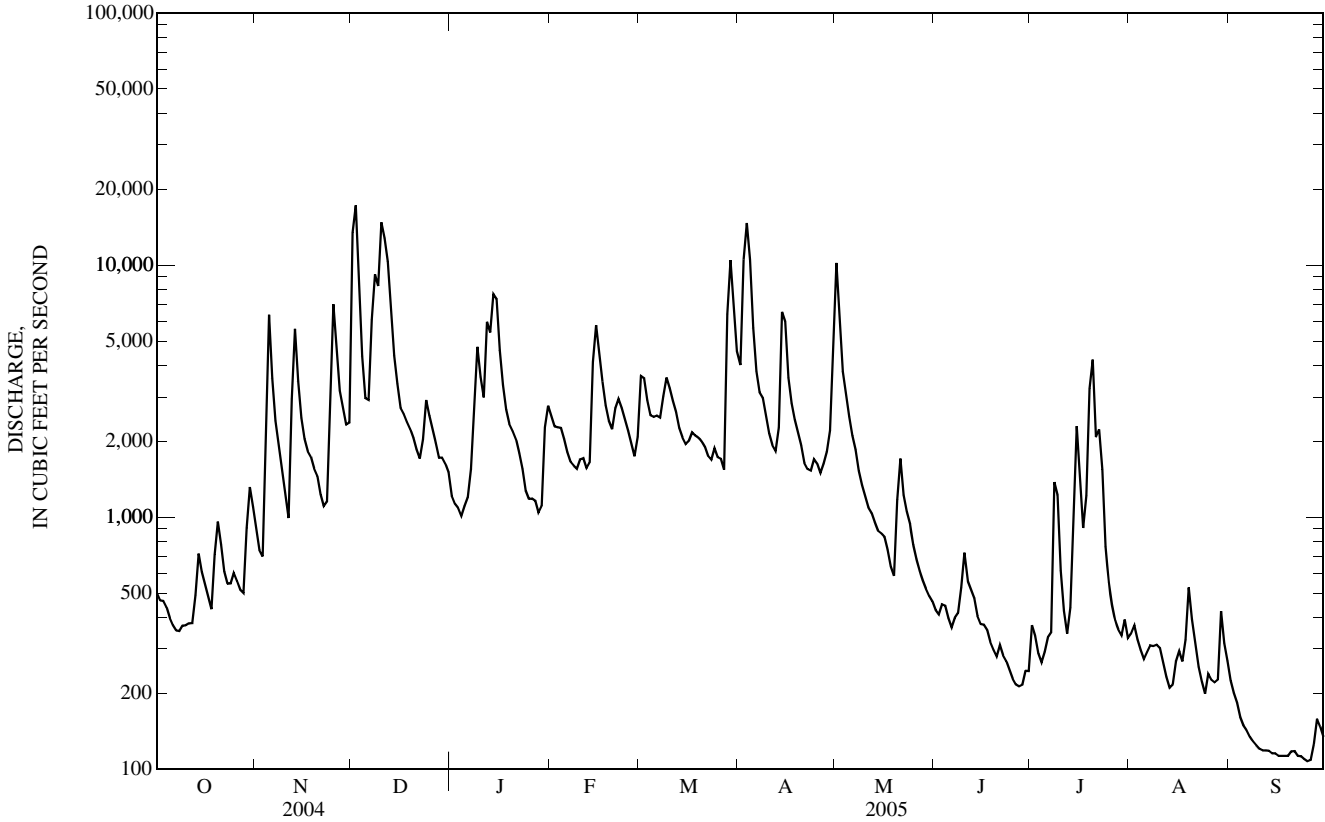
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	501	894	13,500	1,220	2,520	3,630	4,010	10,200	430	373	346	225
2	468	742	17,300	1,130	2,300	3,570	10,500	6,340	412	338	372	201
3	466	700	9,410	1,090	2,280	2,910	14,700	3,780	451	288	327	184
4	440	2,320	4,360	1,010	2,270	2,540	10,500	3,060	446	265	297	161
5	399	6,350	2,970	1,110	2,040	2,500	5,650	2,510	398	293	273	149
6	373	3,570	2,920	1,200	1,810	2,530	3,800	2,100	365	334	291	143
7	356	2,410	6,080	1,560	1,660	2,480	3,130	1,850	399	348	311	135
8	354	1,950	9,170	2,850	1,600	3,020	2,980	1,520	417	1,380	308	129
9	372	1,590	8,250	4,740	1,560	3,580	2,540	1,340	526	1,220	312	125
10	373	1,290	14,800	3,600	1,690	3,260	2,150	1,210	725	615	303	121
11	379	993	12,800	2,990	1,710	2,890	1,930	1,090	557	426	265	119
12	381	2,940	10,400	5,960	1,570	2,610	1,840	1,040	517	345	233	119
13	490	5,580	6,820	5,400	1,650	2,260	2,270	956	476	437	211	119
14	717	3,470	4,390	7,670	4,140	2,080	6,530	886	406	1,150	217	116
15	606	2,480	3,390	7,350	5,780	1,960	5,970	867	377	2,300	268	116
16	541	2,040	2,720	4,610	4,540	2,010	3,590	838	375	1,370	295	113
17	483	1,830	2,570	3,350	3,450	2,170	2,840	744	358	907	268	113
18	432	1,730	2,390	2,680	2,780	2,110	2,440	636	320	1,220	327	113
19	711	1,560	2,240	2,340	2,420	2,070	2,170	585	299	3,240	527	113
20	961	1,460	2,070	2,190	2,240	2,000	1,930	1,170	281	4,220	394	118
21	782	1,230	1,850	2,040	2,710	1,900	1,640	1,710	311	2,080	310	118
22	610	1,110	1,710	1,800	2,950	1,750	1,550	1,230	284	2,230	255	113
23	546	1,150	2,040	1,560	2,720	1,690	1,530	1,050	269	1,550	223	113
24	546	2,980	2,920	1,270	2,450	1,880	1,700	942	247	764	199	110
25	603	7,010	2,530	1,180	2,210	1,730	1,630	780	229	554	240	108
26	560	4,750	2,230	1,190	1,960	1,710	1,500	683	217	453	227	109
27	517	3,180	1,970	1,160	1,750	1,540	1,630	613	213	389	222	126
28	501	2,730	1,720	1,040	2,080	6,390	1,820	561	217	359	227	159
29	906	2,330	1,730	1,110	---	10,500	2,210	520	246	340	424	148
30	1,320	2,380	1,630	2,280	---	6,670	5,470	488	246	394	317	135
31	1,100	---	1,510	2,770	---	4,560	---	464	---	332	269	---
TOTAL	17,794	74,749	160,390	81,450	68,840	92,500	112,150	51,763	11,014	30,514	9,058	3,971
MEAN	574	2,492	5,174	2,627	2,459	2,984	3,738	1,670	367	984	292	132
MAX	1,320	7,010	17,300	7,670	5,780	10,500	14,700	10,200	725	4,220	527	225
MIN	354	700	1,510	1,010	1,560	1,540	1,500	464	213	265	199	108
CFSM	0.60	2.60	5.39	2.74	2.56	3.11	3.89	1.74	0.38	1.03	0.30	0.14
IN.	0.69	2.90	6.22	3.16	2.67	3.58	4.35	2.01	0.43	1.18	0.35	0.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2005, BY WATER YEAR (WY)

MEAN	432	1,277	2,236	2,557	3,180	3,265	2,812	1,996	1,248	566	462	501
MAX	3,058	3,816	5,837	5,582	7,612	6,208	8,578	6,782	5,524	1,071	1,089	2,884
(WY)	(1990)	(1997)	(1992)	(1982)	(2003)	(1997)	(1998)	(1984)	(1989)	(1989)	(2003)	(2004)
MIN	87.9	117	193	135	1,220	791	549	635	201	141	124	60.5
(WY)	(1981)	(1999)	(1981)	(1981)	(1999)	(1988)	(1986)	(1986)	(1988)	(1988)	(1999)	(1999)

03403500 CUMBERLAND RIVER AT BARBOURVILLE, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1980 - 2005	
ANNUAL TOTAL	882,096		714,193		1,703	
ANNUAL MEAN	2,410		1,957		824	
HIGHEST ANNUAL MEAN					2,417 1989	
LOWEST ANNUAL MEAN					824 1988	
HIGHEST DAILY MEAN	23,400	Feb 7	17,300	Dec 2	41,600	May 8, 1984
LOWEST DAILY MEAN	213	Sep 7	108	Sep 25	50	Sep 19, 1999
ANNUAL SEVEN-DAY MINIMUM	244	Sep 1	113	Sep 20	53	Sep 16, 1999
MAXIMUM PEAK FLOW			19,700	Dec 2	56,100	Apr 6, 1977
MAXIMUM PEAK STAGE			26.46	Dec 2	45.91	Apr 6, 1977
INSTANTANEOUS LOW FLOW			108	Sep 24	0.20	Oct 5, 1930
ANNUAL RUNOFF (CFSM)	2.51		2.04		1.77	
ANNUAL RUNOFF (INCHES)	34.18		27.67		24.10	
10 PERCENT EXCEEDS	5,160		4,370		3,700	
50 PERCENT EXCEEDS	1,480		1,230		855	
90 PERCENT EXCEEDS	380		223		130	



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 with telemetry and crest-stage gages. Datum of gage is 891.52 ft above NGVD of 1929. See WDR KY-90-1 for history of changes prior to June 26, 1990.

REMARKS.--Records good except for those estimated, which are fair. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979.

COOPERATION.--U.S. Army Corps of Engineers, Nashville District and Kentucky Natural Resources and Environmental Protection Cabinet.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	856	1,490	15,000	1,920	3,550	4,290	6,880	12,600	602	299	437	366
2	754	1,260	21,200	1,700	3,260	5,370	14,700	11,600	579	405	415	313
3	712	1,090	17,800	1,660	3,480	4,660	18,500	7,000	595	428	444	271
4	697	1,930	11,500	1,590	3,780	3,900	17,000	4,810	615	371	401	239
5	658	6,910	5,410	1,560	3,290	3,640	12,600	3,820	595	357	358	211
6	609	6,720	4,430	1,800	2,860	3,580	6,970	3,070	539	407	330	190
7	563	4,000	7,260	2,210	2,540	3,410	5,080	2,610	552	445	339	176
8	533	2,860	12,100	4,160	2,380	3,990	5,080	2,260	591	467	367	165
9	515	2,260	14,600	6,580	2,280	5,200	4,440	1,930	592	1,350	395	159
10	538	1,840	20,800	6,460	2,290	5,060	3,570	1,730	1,220	1,070	409	152
11	536	1,550	19,900	5,330	2,380	4,460	3,050	1,570	1,260	639	371	146
12	535	3,900	17,200	8,900	2,250	3,970	2,780	1,440	999	480	320	143
13	578	9,350	12,900	9,550	2,280	3,440	3,490	1,350	848	499	338	142
14	819	7,010	8,120	11,800	4,610	2,970	9,330	1,250	751	918	264	136
15	956	4,400	5,620	12,200	8,370	2,680	10,900	1,200	614	2,930	252	133
16	855	3,220	4,460	8,970	7,900	2,620	7,260	1,170	539	2,500	275	133
17	753	2,630	3,640	6,050	5,960	2,920	4,930	1,070	499	1,470	367	136
18	668	2,370	3,400	4,490	4,550	2,930	3,920	956	464	1,190	402	135
19	904	2,160	3,110	3,620	3,690	2,820	3,340	849	409	2,420	e600	134
20	1,590	2,000	2,860	3,250	3,310	2,730	2,920	1,920	372	4,210	e760	128
21	1,500	1,900	2,550	2,990	3,890	2,620	2,530	3,290	350	3,820	e500	132
22	1,190	1,650	2,370	2,730	5,080	2,450	2,230	2,390	363	3,580	e400	137
23	943	1,560	2,560	2,390	4,820	2,300	2,190	1,720	345	3,920	340	126
24	853	3,300	3,540	2,030	4,130	2,310	2,170	1,450	329	1,780	301	119
25	851	9,470	3,670	1,790	3,590	2,330	2,170	1,230	307	1,030	269	116
26	858	8,790	3,200	1,750	3,070	2,230	2,020	1,030	286	762	290	115
27	809	5,750	2,830	1,720	2,710	2,120	1,990	899	287	631	305	116
28	1,010	4,400	2,460	1,600	2,700	6,350	2,120	809	276	573	280	136
29	1,190	3,660	2,260	1,610	---	14,100	3,260	735	285	521	328	185
30	1,670	3,660	2,220	2,360	---	12,000	8,220	680	297	473	540	187
31	1,770	---	2,100	3,430	---	8,270	---	644	---	486	433	---
TOTAL	27,273	113,090	241,070	128,200	105,000	131,720	175,640	79,082	16,360	40,431	11,830	4,977
MEAN	880	3,770	7,776	4,135	3,750	4,249	5,855	2,551	545	1,304	382	166
MAX	1,770	9,470	21,200	12,200	8,370	14,100	18,500	12,600	1,260	4,210	760	366
MIN	515	1,090	2,100	1,560	2,250	2,120	1,990	644	276	299	252	115

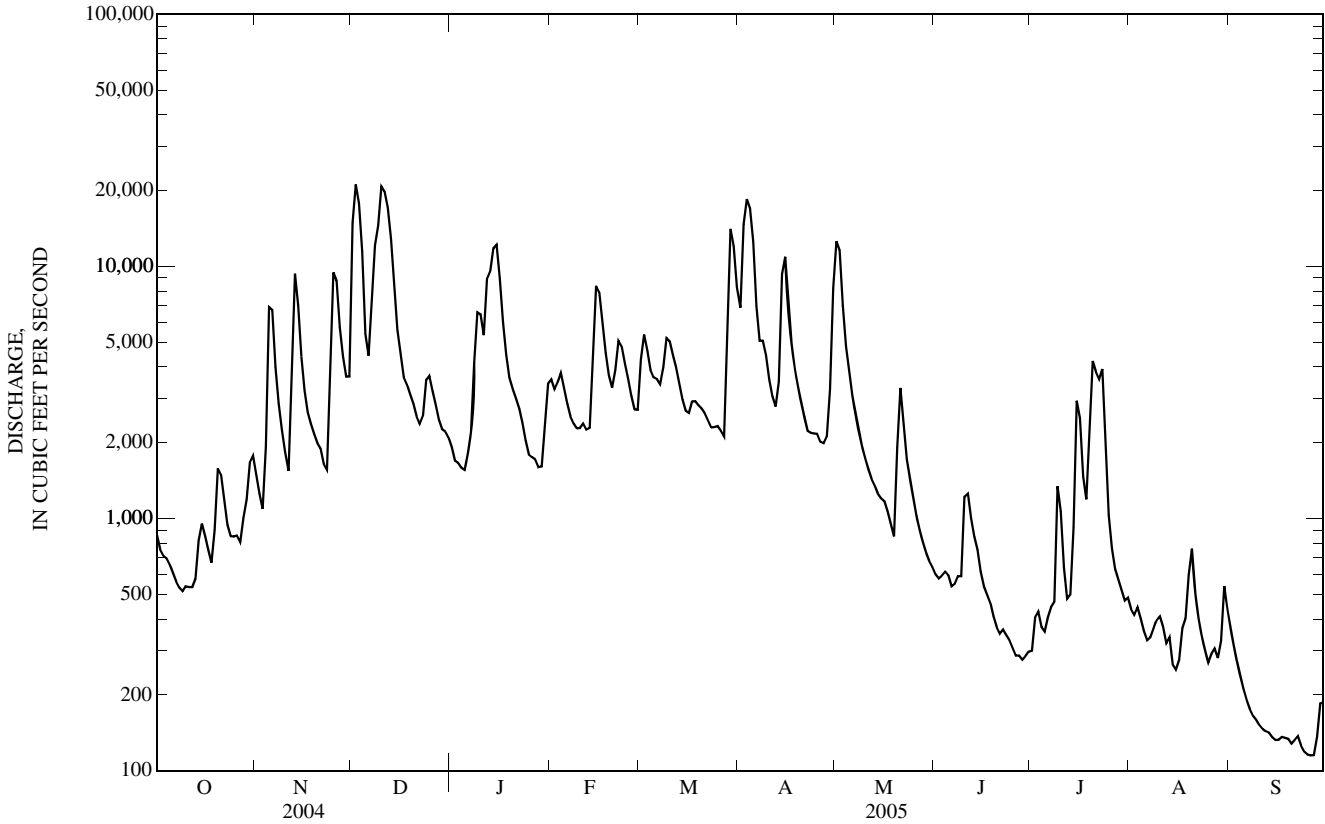
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2005, BY WATER YEAR (WY)

MEAN	605	1,756	3,397	4,028	5,060	5,117	4,190	3,009	1,869	820	730	757
MAX	4,413	4,923	9,751	8,015	12,920	10,400	11,520	9,572	8,305	1,684	1,882	4,544
(WY)	(1990)	(1997)	(1992)	(1994)	(1994)	(1994)	(1998)	(1984)	(1989)	(1989)	(2003)	(2004)
MIN	107	141	300	203	1,803	1,193	730	943	277	211	191	86.2
(WY)	(1981)	(1999)	(1981)	(1981)	(1988)	(1988)	(1986)	(1986)	(1988)	(1988)	(2002)	(1999)

03404000 CUMBERLAND RIVER AT WILLIAMSBURG, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1980 - 2005	
ANNUAL TOTAL	1,301,888		1,074,673		2,598	
ANNUAL MEAN	3,557		2,944		4,390	
HIGHEST ANNUAL MEAN					1,159	
LOWEST ANNUAL MEAN					38,500	
HIGHEST DAILY MEAN	26,600	Feb 7	21,200	Dec 2	62	Feb 13, 1994
LOWEST DAILY MEAN	326	Sep 7	115	Sep 26	63	Oct 18, 1980
ANNUAL SEVEN-DAY MINIMUM	384	Sep 1	123	Sep 21	63	Oct 17, 1980
MAXIMUM PEAK FLOW			22,100	Dec 2	49,700	Jan 31, 1957
MAXIMUM PEAK STAGE			21.63	Dec 2	35.03	Apr 7, 1977
INSTANTANEOUS LOW FLOW					6.1	Oct 23, 1953
10 PERCENT EXCEEDS	8,870		7,000		5,910	
50 PERCENT EXCEEDS	2,140		1,900		1,270	
90 PERCENT EXCEEDS	629		287		198	

e Estimated



03404500 CUMBERLAND RIVER AT CUMBERLAND FALLS, KY

LOCATION.--Lat 36°50'14", long 84°26'36", McCreary County, Hydrologic Unit 05130101, on left bank 0.1 mi downstream from bridge on State Highway 90, 0.2 upstream from Cumberland Falls, and at mile 562.4.

DRAINAGE AREA.--1,977 mi².

PERIOD OF RECORD.--August 1907 to December 1911, October 1914 to September 1994, October 2002 to current year. Monthly discharges only for October 1914 to March 1915 and October 1931 to July 1932, published in WSP 1306. Discontinued operation by USGS Sept. 30, 2005.

REVISED RECORDS.--WSP 1436: 1919. WSP 1436: Drainage area.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 825.28 ft above NGVD of 1929. Aug. 15, 1907 to Dec. 10, 1911, nonrecording gage at site 300 ft downstream at different datum. Apr. 3, 1915 to Sept. 1, 1933, nonrecording gage at site 500 ft downstream at same datum.

REMARKS.--Records good except for those estimated, which are poor. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979.

COOPERATION.--U.S. Army Corps of Engineers, Nashville District.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 12	1800	24,500	9.23	Apr 4	0600	22,800	8.82
Dec 9	1900	27,700	9.34				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	981	1,720	22,400	2,010	3,910	4,720	9,360	15,100	774	353	506	383
2	911	1,460	23,300	1,810	3,620	6,260	19,000	13,900	752	404	429	326
3	836	1,280	19,600	1,770	3,430	5,760	21,900	9,850	745	557	440	274
4	803	2,290	14,000	1,710	4,090	4,670	19,500	6,200	768	497	448	235
5	758	6,680	6,970	1,680	3,570	4,270	15,600	4,760	772	453	385	209
6	701	8,100	5,330	1,910	3,110	4,110	9,400	3,740	715	439	348	186
7	635	5,160	9,320	2,380	2,730	3,900	6,660	3,090	669	513	329	165
8	589	3,230	13,900	8,140	2,570	4,530	6,180	2,700	728	530	353	154
9	558	2,480	20,000	8,550	2,470	6,280	5,710	2,310	751	821	386	146
10	559	1,990	25,600	8,130	2,380	6,350	4,450	2,060	961	1,580	406	139
11	569	1,700	22,800	6,680	2,460	5,560	3,620	1,880	1,570	962	412	133
12	572	4,350	19,300	11,200	2,400	4,800	3,250	1,710	1,390	676	370	128
13	599	10,600	14,900	11,400	2,400	4,090	3,670	1,590	1,100	636	352	125
14	807	8,780	9,880	14,000	5,070	e3,750	10,800	1,480	1,040	823	581	123
15	1,080	5,510	6,740	14,300	9,360	e3,300	13,200	1,410	844	2,350	282	121
16	1,040	3,740	5,140	11,000	9,490	e3,100	9,670	1,370	718	2,900	274	118
17	922	2,920	4,020	7,560	7,630	e3,350	6,500	1,280	628	1,970	353	126
18	794	2,490	3,540	5,470	5,600	e3,350	4,970	1,160	584	1,350	441	122
19	806	2,280	3,230	4,150	4,310	e3,200	4,040	1,050	516	1,880	597	117
20	1,570	2,090	2,920	3,550	3,710	e3,100	3,450	1,610	448	4,000	789	118
21	1,780	2,020	2,610	3,230	4,970	3,000	3,020	4,070	443	4,980	711	118
22	1,490	1,800	2,390	2,930	6,700	2,870	2,650	3,110	395	4,920	508	121
23	1,200	1,720	2,550	2,590	6,360	2,730	2,550	2,230	422	5,600	386	126
24	1,020	3,260	3,300	2,180	5,270	2,630	2,480	1,810	e400	2,460	318	121
25	981	10,200	3,800	1,920	4,340	2,700	2,470	1,550	e385	1,420	284	114
26	958	10,400	3,330	1,830	3,600	2,600	2,340	1,330	e370	980	250	119
27	927	7,170	2,930	1,800	3,120	2,530	2,280	1,150	e360	776	274	115
28	925	5,300	2,560	1,680	3,250	6,000	2,330	1,040	382	684	282	111
29	1,530	4,290	2,270	1,680	---	15,700	3,120	940	340	610	252	125
30	1,660	5,930	2,240	2,490	---	14,500	12,600	869	331	539	e600	166
31	1,980	---	2,130	3,460	---	11,700	---	813	---	489	e550	---
TOTAL	30,541	130,940	283,000	153,190	121,920	155,410	216,770	97,162	20,301	47,152	12,896	4,684
MEAN	985	4,365	9,129	4,942	4,354	5,013	7,226	3,134	677	1,521	416	156
MAX	1,980	10,600	25,600	14,300	9,490	15,700	21,900	15,100	1,570	5,600	789	383
MIN	558	1,280	2,130	1,680	2,380	2,530	2,280	813	331	353	250	111

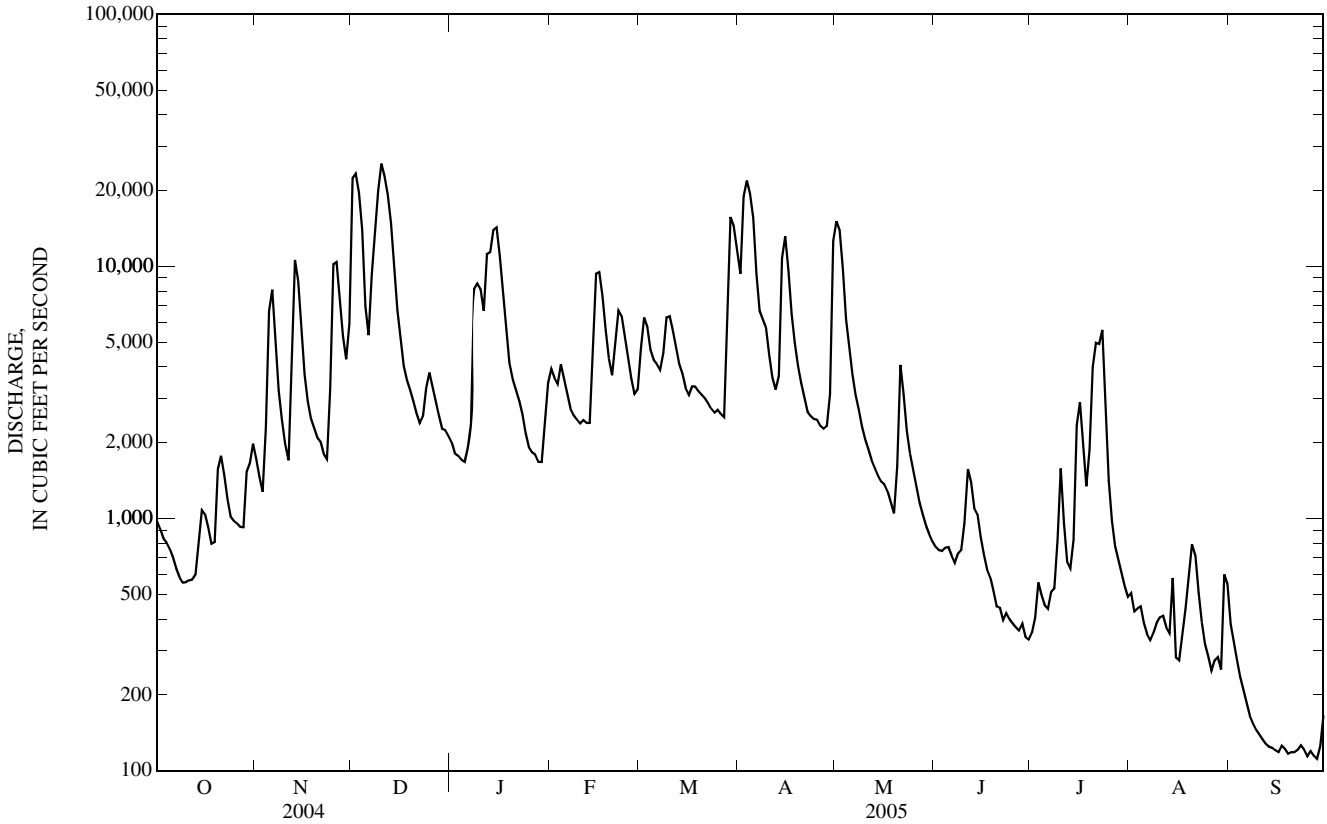
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2005, BY WATER YEAR (WY)

MEAN	688	1,906	3,946	5,763	6,387	6,984	5,117	3,272	1,796	1,346	940	626
MAX	5,330	7,963	17,620	17,570	15,740	18,510	11,390	11,230	8,954	6,379	4,171	5,625
(WY)	(1990)	(1978)	(1927)	(1937)	(1939)	(1917)	(1977)	(1984)	(1989)	(1941)	(1942)	(2004)
MIN	10.5	44.2	141	227	462	1,572	987	417	103	47.5	37.3	23.0
(WY)	(1954)	(1940)	(1940)	(1981)	(1941)	(1988)	(1963)	(1936)	(1936)	(1944)	(1925)	(1925)

03404500 CUMBERLAND RIVER AT CUMBERLAND FALLS, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1908 - 2005	
ANNUAL TOTAL	1,593,694		1,273,966		3,217	
ANNUAL MEAN	4,354		3,490		5,196	
HIGHEST ANNUAL MEAN					1,324	
LOWEST ANNUAL MEAN					1927	
HIGHEST DAILY MEAN	31,700	Feb 6	25,600	Dec 10	57,500	Jan 28, 1918
LOWEST DAILY MEAN	406	Sep 7	111	Sep 28	4.0	Sep 19, 1954
ANNUAL SEVEN-DAY MINIMUM	498	Sep 1	118	Sep 22	7.1	Oct 23, 1953
MAXIMUM PEAK FLOW			27,900	Dec 9	59,600	Jan 28, 1918
MAXIMUM PEAK STAGE			9.84	Dec 9	15.50	Jan 28, 1918
INSTANTANEOUS LOW FLOW					4.0	Sep 19, 1954
10 PERCENT EXCEEDS	9,980		9,360		7,960	
50 PERCENT EXCEEDS	2,680		2,020		1,450	
90 PERCENT EXCEEDS	791		323		161	

e Estimated



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 with telemetry. Datum of gage is 1,049.00 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records good except for discharges below 2.0 ft³/s, which are fair and for those estimated, which are poor.

COOPERATION.--U.S. Army Corps of Engineers, Nashville District.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 1	0730	*1,890	8.07	Dec 9	2330	1,890	*8.08

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	39	1,600	e35	88	208	286	363	7.6	21	8.0	4.2
2	22	34	366	46	73	138	1,070	140	7.9	15	6.9	2.9
3	23	30	173	48	73	108	432	90	9.2	12	4.7	2.0
4	17	237	118	84	63	91	219	66	10	8.5	4.8	1.5
5	15	119	89	182	54	121	155	54	9.3	36	3.9	1.2
6	13	67	204	198	49	86	120	47	9.0	31	7.0	0.90
7	12	51	556	192	46	79	114	41	8.2	20	20	0.65
8	11	41	295	772	55	222	465	36	11	14	7.5	0.64
9	9.7	33	1,090	270	50	140	189	32	13	8.7	3.4	0.55
10	9.2	29	1,060	160	57	111	135	29	24	4.8	2.3	0.54
11	9.3	27	404	288	50	96	108	26	28	2.5	2.2	0.61
12	11	228	234	406	45	89	118	23	14	2.0	1.4	0.52
13	33	115	162	333	156	70	188	19	24	17	1.2	0.47
14	30	73	117	665	377	60	361	18	13	16	1.1	0.40
15	38	57	93	250	216	54	180	18	9.8	18	24	0.35
16	24	48	80	169	152	86	131	17	8.2	9.2	23	0.80
17	16	42	e68	125	111	91	103	15	8.4	7.7	8.6	0.85
18	24	e40	e60	95	85	65	85	13	7.3	241	27	0.65
19	82	e41	e52	e80	73	61	72	14	6.6	282	9.2	0.45
20	43	e50	46	e68	110	58	63	97	7.4	46	5.5	0.35
21	30	e45	e40	e60	298	53	55	34	12	23	3.9	0.40
22	26	e40	e37	e54	235	50	51	22	6.9	19	2.4	0.59
23	22	e91	142	e51	138	53	61	34	5.6	14	1.8	0.58
24	26	368	80	e48	108	54	56	19	4.7	11	1.4	0.28
25	22	225	60	e46	88	52	45	14	4.3	11	7.8	0.26
26	18	114	e50	e42	75	47	49	13	3.8	11	3.6	1.3
27	17	86	e45	e40	67	44	78	11	3.2	16	1.8	1.1
28	41	110	42	37	244	685	53	10	3.0	18	33	0.62
29	167	70	e39	148	---	276	172	9.3	2.6	11	81	0.98
30	76	398	e37	176	---	152	1,040	9.2	8.3	8.1	11	0.49
31	50	---	e36	111	---	349	---	11	---	7.9	5.7	---
TOTAL	953.2	2,948	7,475	5,279	3,236	3,849	6,254	1,344.5	290.3	962.4	325.1	27.13
MEAN	30.7	98.3	241	170	116	124	208	43.4	9.68	31.0	10.5	0.90
MAX	167	398	1,600	772	377	685	1,070	363	28	282	81	4.2
MIN	9.2	27	36	35	45	44	45	9.2	2.6	2.0	1.1	0.26
CFSM	0.57	1.83	4.48	3.17	2.15	2.31	3.87	0.81	0.18	0.58	0.19	0.02
IN.	0.66	2.04	5.17	3.65	2.24	2.66	4.32	0.93	0.20	0.67	0.22	0.02

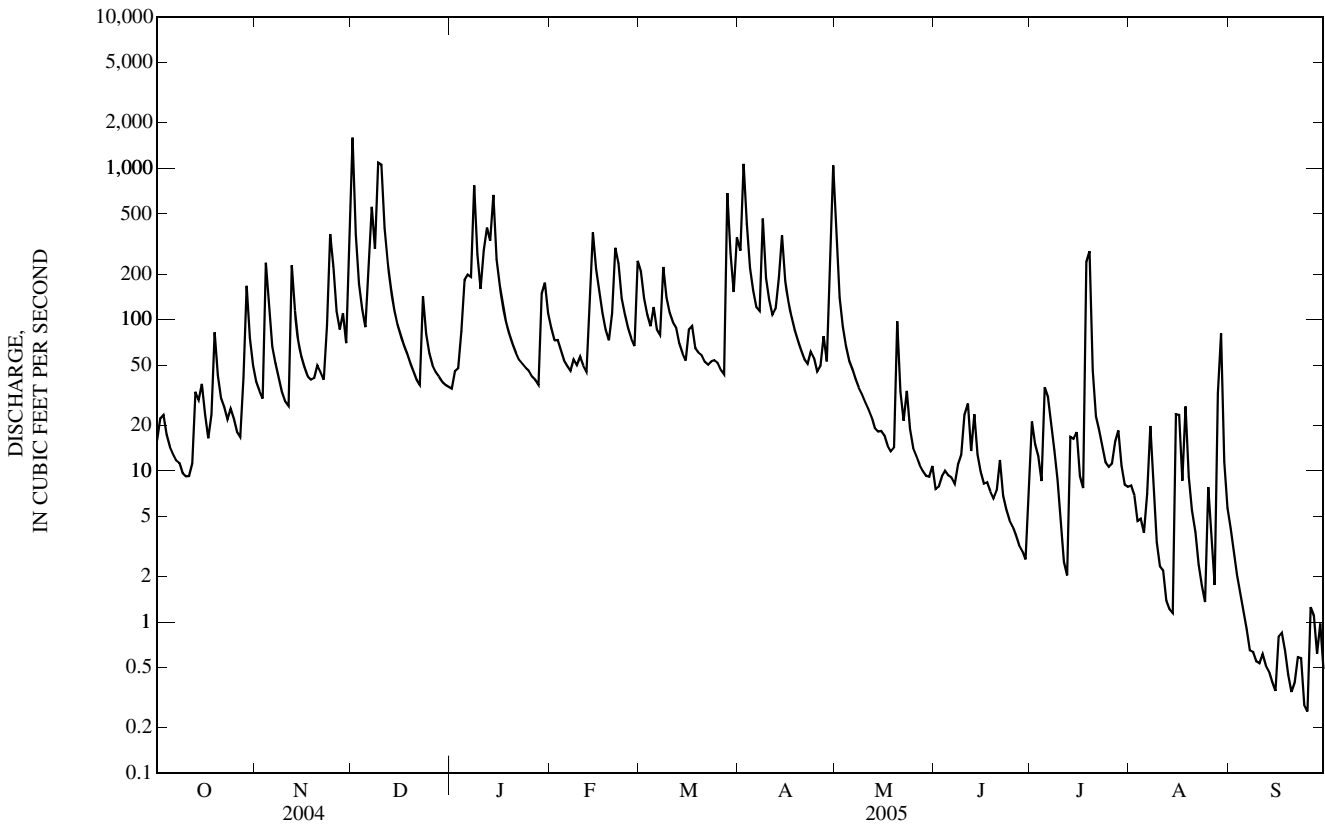
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2005, BY WATER YEAR (WY)

MEAN	28.1	79.2	119	150	157	155	117	85.9	56.0	38.9	28.9	32.5
MAX	133	267	378	372	365	458	413	387	203	110	90.9	186
(WY)	(1990)	(1974)	(1991)	(1974)	(2003)	(1975)	(1998)	(1983)	(1997)	(1978)	(2003)	(2004)
MIN	1.35	5.15	10.4	5.13	56.9	41.9	16.5	9.47	2.39	2.11	2.50	0.32
(WY)	(1981)	(1999)	(1981)	(1981)	(1977)	(1988)	(1986)	(1986)	(1988)	(1975)	(1976)	(1999)

03404900 LYNN CAMP CREEK AT CORBIN, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1974 - 2005	
ANNUAL TOTAL	41,831.8		32,943.63		87.0	
ANNUAL MEAN	114		90.3		141	
HIGHEST ANNUAL MEAN					1994	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	2,620	Sep 17	1,600	Dec 1	4,530	Apr 17, 1998
LOWEST DAILY MEAN	5.6	Sep 2	0.26	Sep 25	0.02	Jun 24, 1988
ANNUAL SEVEN-DAY MINIMUM	8.8	Aug 27	0.42	Sep 19	0.02	Jun 24, 1988
MAXIMUM PEAK FLOW			1,890	Dec 9	9,000	Jan 29, 1957
MAXIMUM PEAK STAGE			8.08	Dec 9	22.50	Jan 29, 1957
INSTANTANEOUS LOW FLOW					0.02	Jun 24, 1988
ANNUAL RUNOFF (CF5M)	2.12		1.68		1.62	
ANNUAL RUNOFF (INCHES)	28.92		22.78		21.97	
10 PERCENT EXCEEDS	226		223		193	
50 PERCENT EXCEEDS	47		41		36	
90 PERCENT EXCEEDS	13		2.3		3.2	

e Estimated



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 with telemetry. Datum of gage is 802.90 ft above NGVD of 1929. Prior to Nov. 19, 1940, nonrecording gage at same site and datum.

REMARKS.--Records fair except for those estimated, which are poor.

COOPERATION.--U.S. Army Corps of Engineers, Nashville District and Kentucky Natural Resources and Environmental Protection Cabinet.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 1	unknown	unknown	unknown	Jan 8	unknown	unknown	unknown
Dec 7	2330	11,500	20.06	Apr 30	unknown	24,400	31.04

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	1,000	e14,600	570	1,270	1,750	1,410	e16,100	108	90	59	77
2	204	836	8,310	547	1,110	1,520	6,040	3,320	100	81	47	64
3	233	714	3,200	669	1,010	1,320	5,800	1,830	97	65	39	52
4	247	1,160	2,080	706	923	1,180	3,220	1,350	123	59	35	37
5	208	3,920	1,530	1,960	803	1,340	2,130	1,120	121	59	32	31
6	180	1,520	2,150	2,550	722	1,660	1,580	935	110	56	e30	e26
7	162	1,130	6,490	3,490	664	1,400	1,270	783	96	57	e28	e23
8	148	898	7,790	e14,000	641	2,040	1,110	663	229	45	e26	e21
9	140	709	4,200	9,320	643	2,500	941	566	201	40	e24	e19
10	132	586	7,260	3,450	634	1,790	773	484	168	37	34	e18
11	127	519	5,290	2,270	672	1,510	694	418	138	e32	e31	e17
12	119	802	3,520	2,040	623	1,350	628	365	113	e28	e24	e16
13	191	1,160	2,540	1,740	640	1,180	700	335	102	96	e25	e15
14	419	876	1,830	3,820	2,710	991	1,930	350	96	269	e23	e13
15	310	765	1,430	3,360	4,600	847	1,550	330	160	245	e22	e12
16	299	694	1,150	2,280	2,880	752	1,200	308	120	245	e33	e12
17	272	637	991	1,730	2,110	701	985	271	108	302	68	e14
18	235	579	876	1,330	1,590	635	839	235	83	303	57	e13
19	3,420	556	756	1,100	1,270	560	731	209	70	289	60	e12
20	3,020	605	645	1,000	1,080	505	637	430	60	483	51	e11
21	1,400	563	547	906	1,970	462	560	813	53	336	41	e12
22	950	506	528	791	2,660	414	507	449	48	221	35	e14
23	721	489	821	696	2,090	390	543	335	44	187	e32	e12
24	806	652	1,550	567	1,680	445	556	285	40	152	e30	e10
25	964	1,430	1,050	515	1,400	479	500	247	39	113	e29	e9.5
26	757	1,340	941	511	1,150	422	451	208	e37	87	e28	e9.4
27	2,450	1,160	840	495	977	403	621	181	e35	70	44	e9.2
28	4,680	1,420	725	431	933	1,890	722	162	e32	67	37	e10
29	2,210	1,450	676	419	---	3,900	986	144	e28	79	e30	e14
30	1,650	2,000	652	1,260	---	2,260	e13,800	132	e24	97	e28	e12
31	1,290	---	610	1,450	---	1,670	---	118	---	79	66	---
TOTAL	28,154	30,676	85,578	65,973	39,455	38,266	53,414	33,476	2,783	4,369	1,148	615.1
MEAN	908	1,023	2,761	2,128	1,409	1,234	1,780	1,080	92.8	141	37.0	20.5
MAX	4,680	3,920	14,600	14,000	4,600	3,900	13,800	16,100	229	483	68	77
MIN	119	489	528	419	623	390	451	118	24	28	22	9.2
CFSM	1.50	1.69	4.57	3.52	2.33	2.04	2.95	1.79	0.15	0.23	0.06	0.03
IN.	1.73	1.89	5.27	4.06	2.43	2.36	3.29	2.06	0.17	0.27	0.07	0.04

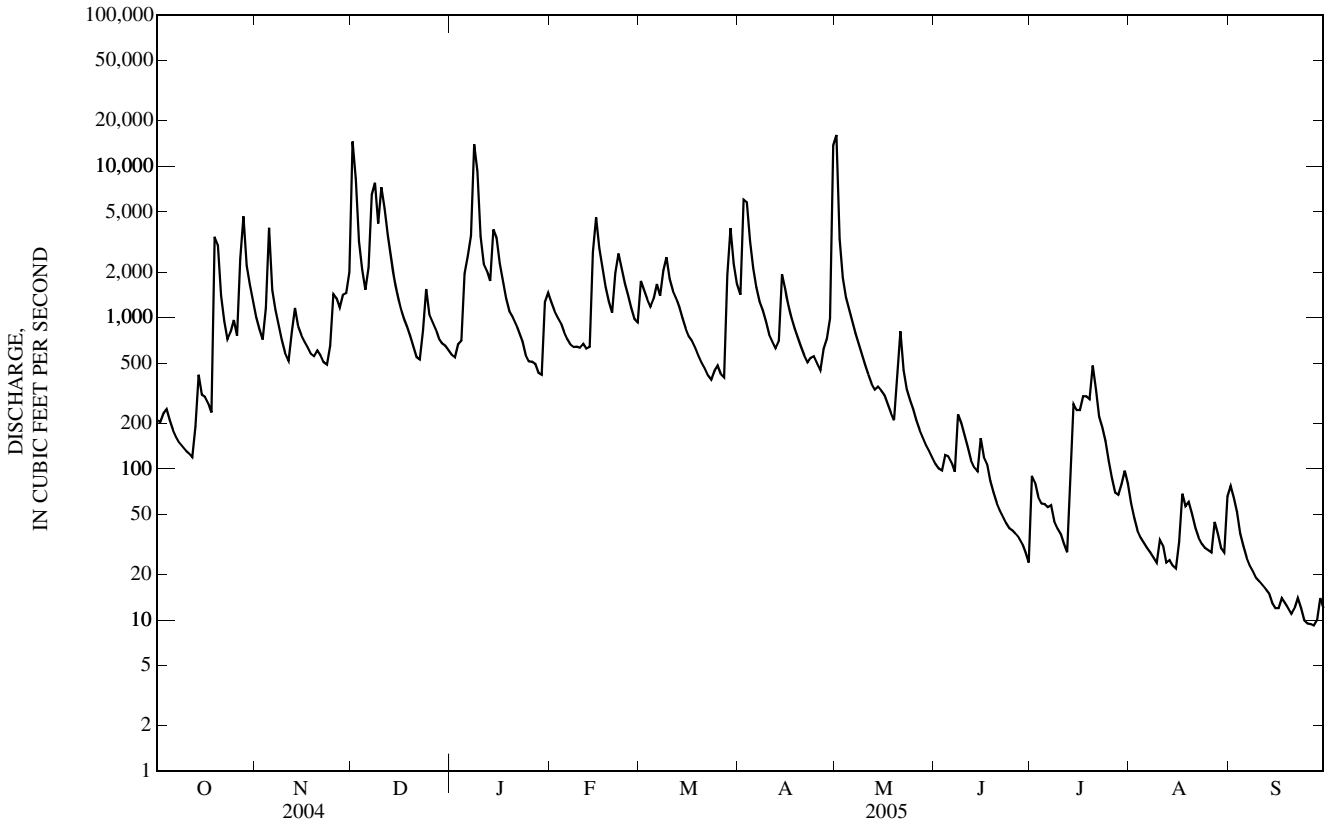
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2005, BY WATER YEAR (WY)

MEAN	208	584	1,265	1,672	1,916	1,952	1,480	992	586	358	209	178
MAX	2,887	2,374	5,279	5,990	5,236	5,860	4,051	4,207	2,862	1,830	1,263	1,769
(WY)	(1990)	(1987)	(1991)	(1937)	(1956)	(1975)	(1972)	(1983)	(1947)	(1941)	(1977)	(2004)
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)

03406500 ROCKCASTLE RIVER AT BILLOWS, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1936 - 2005	
ANNUAL TOTAL	585,996		383,907.1		946	
ANNUAL MEAN	1,601		1,052		345	
HIGHEST ANNUAL MEAN					1,575	1979
LOWEST ANNUAL MEAN					345	1954
HIGHEST DAILY MEAN	26,100	Feb 6	16,100	May 1	46,200	Dec 9, 1978
LOWEST DAILY MEAN	86	Sep 1	9.2	Sep 27	0.90	Sep 9, 1957
ANNUAL SEVEN-DAY MINIMUM	122	Aug 27	11	Sep 22	1.4	Sep 11, 1964
MAXIMUM PEAK FLOW			24,400	Apr 30	50,000	Dec 9, 1978
MAXIMUM PEAK STAGE			31.04	Apr 30	47.17	Dec 9, 1978
INSTANTANEOUS LOW FLOW					0.80	Sep 9, 1957
ANNUAL RUNOFF (CFSM)	2.65		1.74		1.57	
ANNUAL RUNOFF (INCHES)	36.09		23.64		21.28	
10 PERCENT EXCEEDS	3,290		2,260		2,150	
50 PERCENT EXCEEDS	764		547		338	
90 PERCENT EXCEEDS	237		28		25	

e Estimated



03410500 SOUTH FORK CUMBERLAND RIVER NEAR STEARNS, KY

LOCATION.--Lat 36°37'47", long 84°31'55", McCreary County, Hydrologic Unit 05130104, on right bank, 400 ft upstream from Salt Branch, 1,000 ft downstream from Bear Creek, 5.3 mi southwest of Stearns, and at mile 49.4.

DRAINAGE AREA.--954 mi².

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--September 1942 to September 30, 2005. Gage discontinued September 30, 2005

REVISED RECORDS.--WSP 1113: 1946(M). WSP 1436: Drainage area, WDR KY-96-1 latitude and longitude.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 763.83 ft above NGVD of 1929; prior to Oct. 1, 1980 at site 1,000 ft upstream at datum 0.98 ft higher.

REMARKS.--Records fair except for those estimated, which are poor.

COOPERATION.--Kentucky Natural Resources and Environmental Protection Cabinet, National Park Service, and U.S. Army Corps of Engineers, Nashville District.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 22,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 1	1400	*44,300	*30.34	Dec 10	0400	36,700	27.41

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	345	1,400	35,700	1,000	1,900	2,300	3,230	9,840	329	146	186	637
2	327	1,140	12,100	987	1,680	2,130	11,900	5,010	314	160	171	435
3	309	980	5,530	1,140	2,720	1,890	11,100	3,240	296	211	156	305
4	278	3,850	3,650	1,160	3,490	1,740	6,030	2,390	314	201	145	235
5	254	7,780	2,730	1,100	2,640	1,630	3,880	1,870	336	218	148	190
6	232	3,700	2,540	1,200	2,180	1,450	2,840	1,570	294	233	160	160
7	212	2,530	6,840	1,690	1,840	1,290	2,370	1,360	740	177	148	136
8	198	1,930	10,400	6,320	1,710	1,460	2,730	1,160	e800	156	160	124
9	186	1,470	15,600	7,450	1,640	1,800	2,830	1,010	e600	134	196	108
10	181	1,190	25,200	4,350	1,500	1,630	2,320	915	669	130	415	99
11	179	1,030	17,300	3,550	1,400	1,540	1,970	863	810	131	304	91
12	180	7,230	9,620	11,300	1,250	1,460	1,740	785	614	142	223	85
13	217	9,740	5,510	7,120	1,290	1,330	1,750	689	494	182	181	79
14	327	4,570	3,710	10,700	3,080	1,180	3,050	657	415	414	161	74
15	590	2,960	2,780	7,080	5,500	1,060	3,550	654	449	4,300	215	71
16	439	2,270	2,280	4,400	4,000	1,010	2,600	681	348	1,760	311	70
17	370	1,850	1,940	3,150	2,980	1,120	2,070	555	288	1,120	268	70
18	318	1,560	1,700	2,400	2,330	1,170	1,720	467	241	986	385	86
19	1,730	1,370	1,520	1,980	1,920	1,150	1,480	414	204	1,340	1,150	152
20	6,250	1,290	1,350	1,790	1,830	1,120	1,280	1,640	180	1,450	968	147
21	2,900	1,290	1,170	1,620	4,860	1,080	1,110	5,860	167	1,090	563	124
22	1,870	1,150	1,110	1,450	9,340	1,030	1,010	2,660	154	2,360	382	102
23	1,350	1,080	1,280	1,260	5,160	1,020	1,190	1,700	141	1,850	288	87
24	1,130	2,850	2,040	1,040	3,520	1,010	1,330	1,230	145	839	232	77
25	1,080	9,730	1,710	959	2,700	941	1,090	940	130	551	194	69
26	913	4,810	1,540	977	2,160	952	965	766	117	413	168	68
27	776	3,210	1,410	940	1,820	898	1,070	646	118	331	152	74
28	772	2,840	1,240	835	1,780	3,740	1,300	544	151	279	142	70
29	2,480	2,610	1,150	949	---	5,790	5,440	463	129	245	136	126
30	2,530	4,150	1,120	1,860	---	3,510	14,400	409	115	233	604	155
31	1,810	---	1,070	2,230	---	3,180	---	365	---	206	407	---
TOTAL	30,733	93,560	182,840	93,987	78,220	52,611	99,345	51,353	10,102	21,988	9,319	4,306
MEAN	991	3,119	5,898	3,032	2,794	1,697	3,312	1,657	337	709	301	144
MAX	6,250	9,740	35,700	11,300	9,340	5,790	14,400	9,840	810	4,300	1,150	637
MIN	179	980	1,070	835	1,250	898	965	365	115	130	136	68
CFSM	1.04	3.27	6.18	3.18	2.93	1.78	3.47	1.74	0.35	0.74	0.32	0.15
IN.	1.20	3.65	7.13	3.66	3.05	2.05	3.87	2.00	0.39	0.86	0.36	0.17

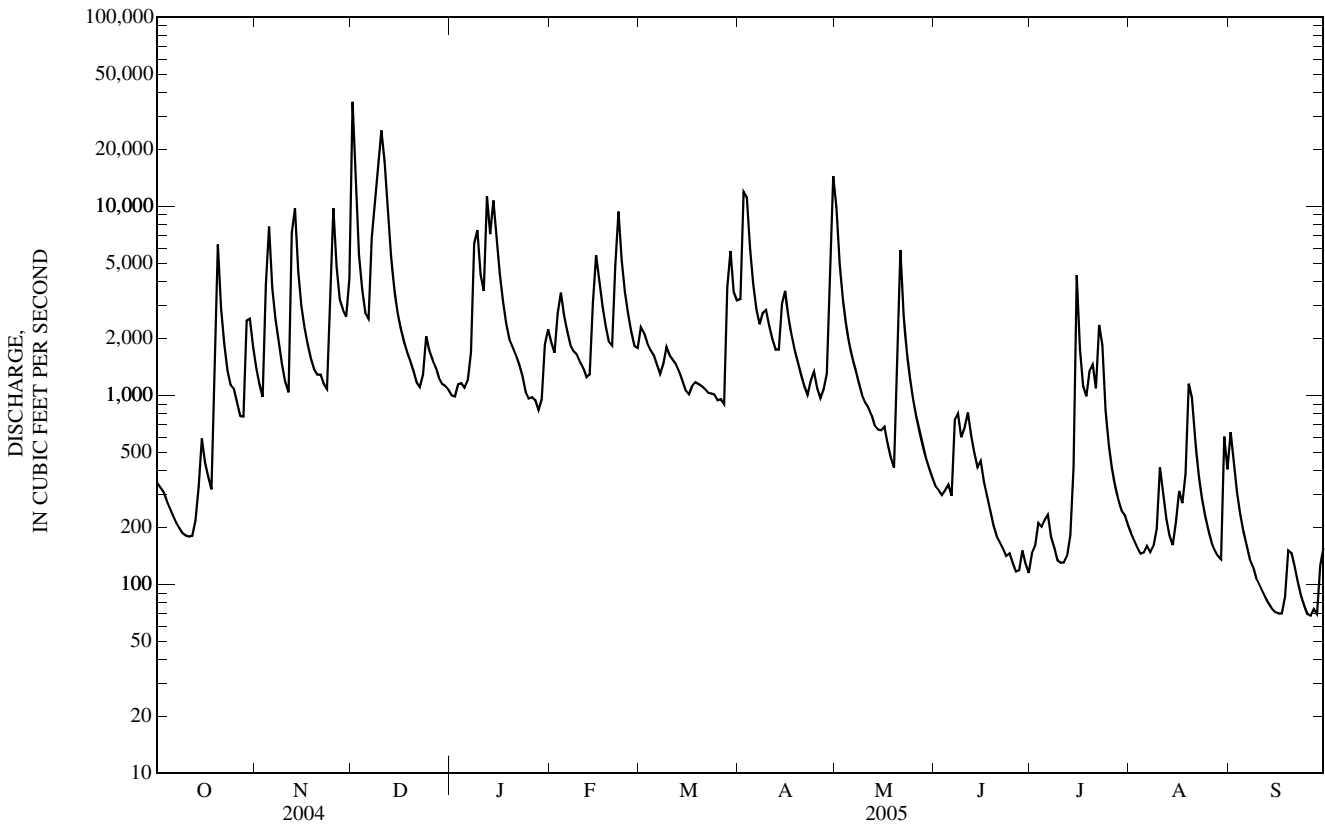
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2005, BY WATER YEAR (WY)

MEAN	383	1,255	2,630	3,272	3,533	3,578	2,598	1,737	991	608	407	424
MAX	2,553	4,556	7,388	9,615	8,747	10,580	6,038	6,555	5,152	3,772	2,997	3,486
(WY)	(1990)	(1958)	(1991)	(1950)	(1956)	(1975)	(1977)	(1984)	(1989)	(1967)	(1971)	(2004)
MIN	20.8	30.6	150	145	725	1,200	568	224	72.8	34.5	65.4	29.6
(WY)	(1954)	(1954)	(1964)	(1981)	(1968)	(2003)	(1986)	(1948)	(1988)	(1944)	(1951)	(1953)

03410500 SOUTH FORK CUMBERLAND RIVER NEAR STEARNS, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1943 - 2005	
ANNUAL TOTAL	932,949		728,364		1,777	
ANNUAL MEAN	2,549		1,996		810	
HIGHEST ANNUAL MEAN					3,023	1973
LOWEST ANNUAL MEAN					810	1988
HIGHEST DAILY MEAN	38,200	Feb 6	35,700	Dec 1	80,200	Mar 13, 1975
LOWEST DAILY MEAN	148	Aug 20	68	Sep 26	11	Sep 18, 1954
ANNUAL SEVEN-DAY MINIMUM	192	Aug 17	76	Sep 12	12	Sep 13, 1954
MAXIMUM PEAK FLOW			44,300	Dec 1	93,200	May 28, 1973
MAXIMUM PEAK STAGE			30.34	Dec 1	46.29	May 28, 1973
INSTANTANEOUS LOW FLOW			66	Sep 25	11	Oct 4, 1948
ANNUAL RUNOFF (CFSM)	2.67		2.09		1.86	
ANNUAL RUNOFF (INCHES)	36.38		28.40		25.30	
10 PERCENT EXCEEDS	4,450		4,470		4,030	
50 PERCENT EXCEEDS	1,380		1,120		725	
90 PERCENT EXCEEDS	295		147		82	

e Estimated



03410500 SOUTH FORK CUMBERLAND RIVER NEAR STEARNS, KY

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960-72, 1979 to 1990; July 1999 to Aug. 2000. Oct. 10, 2001 to current year. (Discontinued)

COOPERATION.--Kentucky Natural Resources and Environmental Protection Cabinet.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--May 1980 to Sept. 1990, July 1999 to Aug. 22, 2000, Oct. 10, 2001 to current year.

pH.--May 1980 to Sept. 1990, July 1999 to Aug. 22, 2000, Oct. 10, 2001 to current year.

WATER TEMPERATURES.--May 1980 to Sept. 1990, July 1999 to Aug. 22, 2000. Oct. 10, 2001 to current year.

DISSOLVED OXYGEN.--May 1980 to Sept. 1990, Oct. 10, 2001 to current year.

TURBIDITY.--May 1980 to Sept. 1987 (discontinued).

SUSPENDED SEDIMENT DISCHARGE.--May 1980 to Sept. 1990 (discontinued).

INSTRUMENTATION.--Five parameter water-quality monitor and sediment pumping sampler May 1980 to Sept. 1990. Three parameter water-quality monitor from July 1999 to Aug. 22, 2000. Four parameter water-quality monitor with telemetry since Oct. 10, 2001.

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

SPECIFIC CONDUCTANCE.--Records rated poor.

pH.--Records rated poor.

WATER TEMPERATURES.--Records rated poor.

DISSOLVED OXYGEN.--Records rated poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 434 microsiemens, July 17, 1985; minimum recorded, 37 microsiemens, Sept. 17, 2004.

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

WATER TEMPERATURES.--Maximum recorded, 34.6°C, Aug. 31, Sept. 1, 1989; minimum recorded, 0.0 °C, Jan. 29, 2002 and Jan. 24-27, 2003.

DISSOLVED OXYGEN.--Maximum recorded, 15.6 mg/L, Jan. 31 and Feb. 1, 2003; minimum recorded, 4.5 mg/L, May 22, 1980.

SEDIMENT CONCENTRATIONS.--Maximum daily mean, 1980 mg/L, Aug. 9, 1981; minimum daily mean, 0.0 mg/L, on several days in 1983-84, 1987-88.

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 239 microsiemens, Aug. 19, 2005; minimum recorded 81 microsiemens, June 14, 2005.

pH.--Maximum recorded, 8.1 units, Aug. 1-3, 2005; minimum recorded, 7.1 units, May 23, and June 10-11, 2005.

WATER TEMPERATURES.--Maximum recorded, 30.1°C, Aug. 3, 2005; minimum recorded, 15.0°C, Oct. 18, 2004.

DISSOLVED OXYGEN.--Maximum recorded, 10.6 mg/L, May 21, 2005; minimum recorded, 6.1 mg/L, Aug. 14, 2005.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	123	120	121	112	109	110	---	---	---	---	---	---
2	124	123	123	110	109	110	---	---	---	---	---	---
3	128	124	126	110	109	109	---	---	---	105	103	104
4	130	128	129	110	77	98	---	---	---	107	106	106
5	132	130	131	129	74	102	---	---	---	106	104	105
6	134	132	132	89	87	87	---	---	---	104	102	103
7	136	134	135	89	87	88	93	74	80	103	100	102
8	137	136	137	91	89	90	106	78	89	100	79	85
9	137	137	137	94	91	93	---	---	---	95	80	90
10	138	137	137	96	94	95	---	---	---	80	75	76
11	140	138	138	99	96	98	---	---	---	77	72	76
12	141	140	140	99	71	89	---	---	---	83	70	77
13	141	140	141	88	72	76	---	---	---	80	75	77
14	141	140	141	77	73	75	---	---	---	77	74	75
15	142	140	140	80	77	78	---	---	---	---	---	---
16	150	142	147	83	80	81	---	---	---	---	---	---
17	150	145	147	86	83	84	---	---	---	---	---	---
18	160	146	153	89	85	86	---	---	---	---	---	---
19	169	156	164	91	89	89	---	---	---	---	---	---
20	166	112	135	91	90	91	---	---	---	---	---	---
21	112	95	98	93	91	92	---	---	---	---	---	---
22	99	95	96	95	93	94	---	---	---	---	---	---
23	103	99	101	96	95	96	---	---	---	---	---	---
24	105	103	104	96	88	93	---	---	---	---	---	---
25	106	105	105	123	81	98	---	---	---	---	---	---
26	106	105	106	---	---	---	---	---	---	---	---	---
27	111	106	108	---	---	---	---	---	---	---	---	---
28	112	111	111	80	78	79	---	---	---	---	---	---
29	156	112	121	---	---	---	---	---	---	---	---	---
30	162	108	130	86	78	85	---	---	---	---	---	---
31	112	107	110	---	---	---	---	---	---	---	---	---
MONTH	169	95	127	129	71	91	106	74	84	107	70	90

THIS PAGE IS INTENTIONALLY BLANK.

03410600 SOUTH FORK CUMBERLAND RIVER AT YAMACRAW, KY

LOCATION.--Lat 36°43'32", long 84°32'38", McCreary County, Hydrologic Unit 05130104, on left bank 200 ft upstream of bridge on State Highway 92 at Yamacraw, 700 feet upstream from Wolf Creek, 0.6 mile downstream from Rock Creek, and at mile 40.3.

DRAINAGE AREA.--1,083 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1999 to September 30, 2000, October 1, 2002 to current year.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 711.166 ft above NGVD of 1929.

REMARKS.--Records good except for those estimated, which are poor.

COOPERATION.--Kentucky Natural Resources and Environmental Protection Cabinet.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	395	1,530	36,600	e1,100	e2,200	e2,800	e3,700	e11,000	e380	e170	263	601
2	376	1,270	16,700	e1,050	e1,900	e2,500	e12,000	e6,000	e350	e190	245	473
3	362	1,070	7,620	e1,300	e3,200	e2,100	e14,000	e4,000	e340	e240	230	324
4	333	3,890	4,810	e1,350	e4,100	e1,900	e7,200	e2,800	e360	e230	212	251
5	309	9,570	3,490	e1,250	e3,100	e1,800	e4,500	e2,200	e400	e260	206	205
6	283	4,450	3,170	e1,350	e2,500	e1,650	e3,400	e1,800	e350	e300	232	171
7	260	2,900	9,300	e2,000	e2,100	e1,500	e2,700	e1,500	e820	e230	218	150
8	245	2,130	14,500	e7,400	e1,900	e1,700	e3,200	e1,300	e950	e180	212	138
9	233	1,620	18,200	e9,200	e1,800	e2,200	e3,400	e1,150	e700	e160	259	128
10	226	1,310	29,000	e5,600	e1,700	e1,900	e2,700	e1,050	e780	e150	431	119
11	223	1,140	e16,000	e4,000	e1,550	e1,800	e2,200	e950	e960	e160	394	109
12	225	6,840	e9,000	e13,000	e1,400	e1,700	e2,000	e880	e700	e180	302	104
13	254	13,200	e6,000	e8,200	e1,500	e1,500	e2,050	e820	e550	e210	252	99
14	314	5,660	e4,000	e12,500	e3,700	e1,350	e3,500	e740	e480	e420	229	95
15	594	3,530	e3,000	e8,000	e6,600	e1,250	e4,100	e780	e520	4,680	232	93
16	474	2,580	e2,500	e5,000	e4,400	e1,150	e2,900	e800	e400	2,230	403	90
17	404	2,060	e2,100	e3,600	e3,200	e1,250	e2,300	e640	e330	1,380	370	90
18	359	1,730	e1,900	e2,700	e2,500	e1,350	e2,000	e540	e270	1,230	380	96
19	1,130	1,520	e1,700	e2,200	e2,200	e1,300	e1,700	e490	e230	1,400	1,170	138
20	7,550	1,420	e1,500	e1,900	e2,100	e1,250	e1,500	e2,300	e210	1,740	1,120	153
21	3,370	1,430	e1,300	e1,650	e5,800	e1,200	e1,300	e6,800	e190	1,370	593	141
22	2,070	1,310	e1,200	e1,450	e11,000	e1,180	e1,200	e3,100	e180	2,330	378	122
23	1,480	1,210	e1,500	e1,300	e6,200	e1,170	e1,400	e1,900	e160	2,740	285	108
24	1,230	2,880	e2,400	e1,150	e3,800	e1,160	e1,450	e1,400	e170	1,120	232	100
25	1,170	11,900	e1,900	e1,050	e3,100	e1,050	e1,200	e1,100	e150	731	202	93
26	1,020	6,160	e1,700	e1,000	e2,600	e1,100	e1,150	e880	e135	542	180	91
27	864	3,880	e1,500	e950	e2,100	e1,000	e1,300	e720	e140	444	166	93
28	831	3,420	e1,400	e920	e1,900	4,590	e1,500	e620	e170	382	158	96
29	2,470	3,140	e1,300	e1,100	---	8,320	e6,000	e520	e150	331	154	108
30	2,890	5,020	e1,200	e2,200	---	e4,000	e17,000	e460	e135	314	523	171
31	1,990	---	e1,150	e2,700	---	e3,600	---	e410	---	288	415	---
TOTAL	33,934	109,770	207,640	108,170	90,150	62,320	114,550	59,650	11,660	26,332	10,646	4,750
MEAN	1,095	3,659	6,698	3,489	3,220	2,010	3,818	1,924	389	849	343	158
MAX	7,550	13,200	36,600	13,000	11,000	8,320	17,000	11,000	960	4,680	1,170	601
MIN	223	1,070	1,150	920	1,400	1,000	1,150	410	135	150	154	90
CFSM	1.01	3.38	6.18	3.22	2.97	1.86	3.53	1.78	0.36	0.78	0.32	0.15
IN.	1.17	3.77	7.13	3.72	3.10	2.14	3.93	2.05	0.40	0.90	0.37	0.16

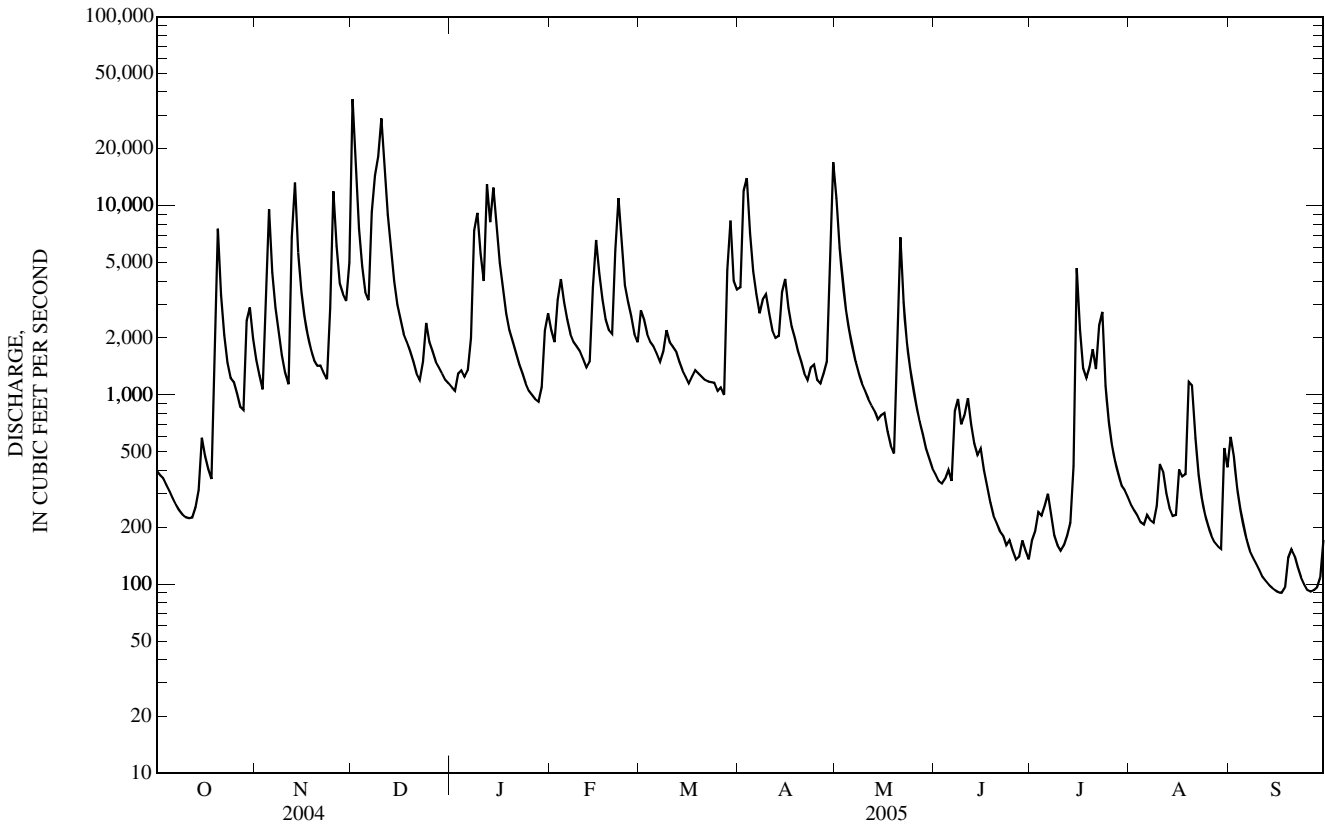
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	507	2,055	3,684	2,125	4,507	2,612	4,547	2,492	1,575	988	477	1,517
MAX	1,095	3,659	6,698	3,489	7,876	4,539	6,502	4,448	2,696	2,092	843	3,996
(WY)	(2005)	(2005)	(2005)	(2005)	(2003)	(2004)	(2003)	(2003)	(2003)	(1999)	(2004)	(2004)
MIN	75.6	137	305	959	2,131	1,394	3,344	1,720	389	255	180	40.3
(WY)	(2000)	(2000)	(2000)	(2003)	(2000)	(2003)	(2004)	(2004)	(2005)	(2000)	(1999)	(1999)

03410600 SOUTH FORK CUMBERLAND RIVER AT YAMACRAW, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	1,127,717		839,572		2,247	
ANNUAL MEAN	3,081		2,300		1,143	
HIGHEST ANNUAL MEAN					2,930	2003
LOWEST ANNUAL MEAN					1,143	2000
HIGHEST DAILY MEAN	43,800	Feb 6	36,600	Dec 1	43,800	Feb 6, 2004
LOWEST DAILY MEAN	222	Aug 20	90	Sep 16	25	Sep 27, 1999
ANNUAL SEVEN-DAY MINIMUM	238	Oct 7	95	Sep 12	25	Sep 26, 1999
MAXIMUM PEAK FLOW			45,100	Dec 1	74,800	Sep 17, 2004
MAXIMUM PEAK STAGE			27.28	Dec 1	33.46	Sep 17, 2004
ANNUAL RUNOFF (CFSM)	2.85		2.12		2.07	
ANNUAL RUNOFF (INCHES)	38.74		28.84		28.19	
10 PERCENT EXCEEDS	5,790		5,620		4,700	
50 PERCENT EXCEEDS	1,680		1,250		1,100	
90 PERCENT EXCEEDS	363		170		159	

e Estimated



03410600 SOUTH FORK CUMBERLAND RIVER AT YAMACRAW, KY—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Oct. 1, 2002 to current year. (Discontinued)

COOPERATION.--Kentucky Natural Resources and Environmental Protection Cabinet.

INSTRUMENTATION.-- Water-quality monitor with telemetry.

REMARKS.--

SPECIFIC CONDUCTANCE.--Records rated fair. Missing record Oct. 19 to Nov. 16, Dec. 25-31, 2004, Jan. 1-6, and July 2-11, 2005.

pH.--Records rated good. Missing record July 4-11, 2005.

WATER TEMPERATURES.--Records rated excellent. Missing record July 4-11, 2005.

DISSOLVED OXYGEN.--Records rated poor. Missing record Oct. 19 to Nov. 16, Dec. 7-31, 2004, Jan. 1 to Apr 14, June 8-24, and July 2-12, 2005.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 322 microsiemens, Feb. 14, 2005; minimum recorded, 45 microsiemens, Dec. 9-10, 2004.

pH.--Maximum 8.2 units, July 2-3, 2005; minimum recorded, 6.2 units, Nov. 4, 2004.

WATER TEMPERATURES.--Maximum recorded, 30.0°C, June 30, 2005; minimum recorded, 1.4°C, Dec. 28, 2004.

DISSOLVED OXYGEN.--Maximum recorded, 11.1 mg/L, Nov. 17, 2004; minimum recorded, 3.9 mg/L, Oct. 2, 2004.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	125	123	124	---	---	---	60	48	54	---	---	---
2	127	125	126	---	---	---	60	54	57	---	---	---
3	131	127	128	---	---	---	68	60	64	---	---	---
4	131	128	130	---	---	---	74	68	71	---	---	---
5	134	131	132	---	---	---	77	73	75	---	---	---
6	135	133	134	---	---	---	80	77	78	---	---	---
7	137	135	136	---	---	---	78	60	69	106	104	105
8	139	137	138	---	---	---	90	66	77	141	106	125
9	143	139	140	---	---	---	69	45	59	120	80	100
10	144	142	143	---	---	---	62	45	55	80	71	74
11	145	143	144	---	---	---	60	57	58	99	71	91
12	146	144	145	---	---	---	64	60	61	116	70	96
13	147	145	146	---	---	---	72	64	68	77	68	71
14	146	144	146	---	---	---	78	71	74	100	70	91
15	146	140	142	---	---	---	87	77	82	78	70	73
16	141	140	140	---	---	---	94	85	89	99	78	89
17	145	141	143	83	79	81	100	93	96	116	99	106
18	150	145	148	87	83	85	107	96	100	136	116	127
19	---	---	---	90	87	88	111	99	103	147	136	142
20	---	---	---	92	89	91	118	106	113	153	147	150
21	---	---	---	94	92	93	121	112	115	160	153	157
22	---	---	---	97	94	95	126	115	119	165	160	163
23	---	---	---	100	97	99	127	116	121	169	165	167
24	---	---	---	104	88	98	124	108	114	171	169	171
25	---	---	---	118	79	96	---	---	---	173	171	172
26	---	---	---	79	75	76	---	---	---	174	173	173
27	---	---	---	77	75	76	---	---	---	174	173	173
28	---	---	---	79	77	78	---	---	---	176	173	174
29	---	---	---	84	79	81	---	---	---	174	172	173
30	---	---	---	89	60	82	---	---	---	172	170	172
31	---	---	---	---	---	---	---	---	---	170	160	165
MONTH												

03410600 SOUTH FORK CUMBERLAND RIVER AT YAMACRAW, KY—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	18.8	19.4	18.4	17.6	18.0	11.5	10.8	11.3	4.8	3.8	4.1
2	19.8	19.3	19.5	18.4	17.8	18.1	11.2	9.3	10.1	5.9	4.8	5.1
3	20.1	19.2	19.6	18.4	17.7	18.0	9.3	8.2	8.7	7.1	5.9	6.4
4	20.0	18.8	19.4	17.7	16.9	17.4	8.2	7.4	7.7	8.2	7.1	7.6
5	19.9	18.6	19.2	16.9	15.4	16.2	7.4	7.0	7.2	9.2	8.2	8.6
6	19.4	17.9	18.6	15.4	13.7	14.4	8.2	7.2	7.7	9.5	9.2	9.3
7	19.2	17.7	18.5	13.7	12.8	13.1	10.9	8.2	9.8	9.3	9.3	9.3
8	19.2	18.0	18.6	12.8	11.9	12.4	11.8	10.9	11.5	9.5	9.2	9.4
9	18.6	18.0	18.3	11.9	11.2	11.5	11.6	10.9	11.2	9.4	9.2	9.3
10	19.2	18.0	18.5	11.5	10.6	11.0	11.4	11.0	11.2	9.4	9.2	9.3
11	19.0	18.0	18.5	11.0	10.6	10.8	11.3	10.3	10.8	9.8	9.2	9.3
12	19.0	18.2	18.7	12.1	11.0	11.3	10.3	9.5	9.9	11.1	9.8	10.3
13	18.8	18.2	18.5	12.9	12.1	12.7	9.5	8.6	9.1	11.7	11.1	11.5
14	18.2	17.7	18.0	12.6	11.6	12.1	8.6	7.3	7.9	11.7	10.2	11.1
15	17.7	16.5	17.1	11.6	10.8	11.1	7.3	6.0	6.5	10.2	8.3	9.1
16	16.6	15.7	16.2	10.8	10.3	10.5	6.0	5.1	5.4	8.3	6.8	7.6
17	16.0	14.9	15.5	10.6	10.2	10.4	5.1	4.7	4.9	6.8	5.0	5.8
18	15.3	15.0	15.1	11.0	10.3	10.6	4.8	4.1	4.4	5.0	3.4	4.0
19	15.9	15.3	15.6	11.6	11.0	11.2	4.5	4.0	4.3	3.4	2.8	2.9
20	15.8	14.8	15.4	12.2	11.6	11.9	4.0	2.8	3.2	3.0	2.6	2.7
21	16.7	15.8	16.2	12.6	12.2	12.4	3.0	2.5	2.7	3.4	3.0	3.1
22	17.0	16.5	16.7	13.0	12.5	12.6	3.5	3.0	3.2	3.5	3.3	3.4
23	17.0	16.6	16.8	13.2	12.9	13.1	3.6	3.3	3.5	3.4	2.7	3.0
24	17.3	16.6	17.0	13.5	13.2	13.4	3.3	2.9	3.0	2.7	1.9	2.1
25	17.3	16.7	17.1	13.5	12.5	13.2	2.9	2.4	2.6	2.3	1.8	2.0
26	17.2	16.4	16.9	12.5	10.5	11.5	2.4	2.1	2.3	2.8	2.2	2.4
27	17.5	17.0	17.2	10.5	9.3	9.6	2.4	1.9	2.1	3.0	2.8	2.9
28	17.8	17.4	17.6	9.3	8.8	9.0	2.0	1.4	1.6	2.9	2.5	2.6
29	17.8	17.4	17.6	8.9	8.6	8.8	2.0	1.6	1.7	3.0	2.6	2.8
30	18.3	17.8	18.0	10.8	8.9	9.3	2.8	2.0	2.3	3.6	3.0	3.3
31	18.1	17.8	17.9	---	---	---	3.8	2.7	3.1	4.2	3.6	3.8
MONTH	20.1	14.8	17.7	18.4	8.6	12.5	11.8	1.4	6.2	11.7	1.8	5.9
	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.8	4.2	4.5	7.0	6.0	6.4	12.3	11.5	12.0	12.6	12.0	12.3
2	5.0	4.7	4.8	6.0	5.4	5.7	11.5	9.8	10.7	12.6	12.0	12.3
3	5.4	5.0	5.2	5.6	4.9	5.3	9.8	9.2	9.5	12.4	11.5	12.0
4	5.9	5.3	5.5	5.4	4.6	5.0	10.4	9.3	9.7	12.6	11.7	12.1
5	6.0	5.6	5.8	5.8	5.1	5.3	11.8	10.2	10.7	12.6	12.2	12.4
6	6.0	5.6	5.8	6.6	5.4	5.9	12.7	11.5	11.9	13.7	12.2	12.8
7	6.1	5.6	5.8	7.0	6.2	6.5	13.3	12.7	12.9	14.2	13.0	13.5
8	6.8	6.0	6.3	7.0	6.7	6.9	14.4	13.3	13.6	15.3	14.0	14.4
9	7.3	6.8	7.0	6.7	6.1	6.5	15.4	14.3	14.7	16.4	15.2	15.7
10	7.3	6.8	7.1	6.6	6.0	6.3	15.8	14.9	15.3	17.2	16.4	16.7
11	6.8	6.3	6.5	6.5	6.0	6.1	16.3	15.5	15.8	18.6	17.0	17.7
12	6.5	5.9	6.2	6.8	5.6	6.1	16.2	15.9	16.0	19.7	18.4	18.9
13	6.4	5.8	5.9	7.2	6.5	6.9	16.0	15.4	15.6	20.2	19.4	19.8
14	6.3	5.8	6.0	7.5	6.7	7.1	15.6	14.8	15.2	20.1	19.4	19.8
15	7.7	6.2	6.7	7.5	6.8	7.2	15.2	14.1	14.6	20.3	19.7	20.0
16	8.3	7.7	8.1	7.3	6.7	6.9	14.6	13.5	14.1	20.1	19.2	19.6
17	8.2	7.8	8.0	7.2	6.4	6.8	15.1	13.7	14.5	19.8	19.0	19.5
18	7.9	7.1	7.4	7.4	6.5	7.0	15.6	14.4	14.9	20.2	19.4	19.7
19	7.1	6.5	6.7	7.3	6.7	7.0	16.2	14.7	15.4	20.6	20.0	20.3
20	6.5	6.2	6.2	8.1	7.0	7.5	16.9	15.5	16.2	20.6	18.5	19.6
21	6.9	6.2	6.4	8.6	7.4	8.1	17.7	16.4	16.9	18.8	17.1	17.9
22	9.1	6.9	8.0	8.8	8.1	8.4	17.6	17.2	17.4	17.9	16.7	17.3
23	9.4	9.1	9.2	9.5	8.8	9.1	17.6	16.1	16.8	18.6	17.6	18.0
24	9.3	9.0	9.1	9.5	9.3	9.4	16.1	15.0	15.3	18.6	17.9	18.2
25	9.0	8.2	8.6	10.6	9.2	9.9	15.0	14.2	14.7	18.6	18.1	18.3
26	8.2	7.5	7.8	11.6	10.3	10.9	14.9	13.7	14.2	18.9	17.8	18.3
27	7.9	7.3	7.5	12.0	11.2	11.6	13.7	13.1	13.3	19.7	18.8	19.2
28	7.4	7.0	7.1	12.0	11.5	11.7	13.3	12.5	12.7	20.4	19.4	19.8
29	---	---	---	11.8	11.3	11.6	12.5	11.4	12.1	20.2	19.7	19.9
30	---	---	---	11.9	10.7	11.3	12.2	11.4	11.9	20.1	19.4	19.7
31	---	---	---	12.4	11.7	12.0	---	---	---	21.0	19.8	20.3
MONTH	9.4	4.2	6.8	12.4	4.6	7.8	17.7	9.2	14.0	21.0	11.5	17.3

03410600 SOUTH FORK CUMBERLAND RIVER AT YAMACRAW, KY—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	6.5	4.2	5.5	---	---	---	10.9	9.5	10.5	---	---	---
2	6.4	3.9	5.2	---	---	---	10.9	8.8	9.9	---	---	---
3	6.4	4.1	5.1	---	---	---	9.6	8.7	9.2	---	---	---
4	6.6	4.5	5.7	---	---	---	9.6	8.9	9.3	---	---	---
5	6.7	4.5	5.7	---	---	---	9.8	8.8	9.3	---	---	---
6	7.0	4.6	6.0	---	---	---	9.4	8.6	9.1	---	---	---
7	7.0	5.1	6.3	---	---	---	---	---	---	---	---	---
8	7.0	4.7	5.9	---	---	---	---	---	---	---	---	---
9	6.6	4.8	5.8	---	---	---	---	---	---	---	---	---
10	6.8	4.7	5.7	---	---	---	---	---	---	---	---	---
11	6.8	4.9	6.1	---	---	---	---	---	---	---	---	---
12	6.7	4.7	5.8	---	---	---	---	---	---	---	---	---
13	6.1	4.6	5.4	---	---	---	---	---	---	---	---	---
14	6.5	4.4	5.8	---	---	---	---	---	---	---	---	---
15	6.5	5.4	6.0	---	---	---	---	---	---	---	---	---
16	7.8	5.7	6.6	---	---	---	---	---	---	---	---	---
17	7.5	5.4	6.7	11.1	10.9	11.0	---	---	---	---	---	---
18	8.7	5.9	7.0	11.0	10.7	10.9	---	---	---	---	---	---
19	---	---	---	10.8	10.4	10.6	---	---	---	---	---	---
20	---	---	---	10.4	10.2	10.3	---	---	---	---	---	---
21	---	---	---	10.2	10.1	10.2	---	---	---	---	---	---
22	---	---	---	10.2	10.0	10.1	---	---	---	---	---	---
23	---	---	---	10.0	9.7	9.8	---	---	---	---	---	---
24	---	---	---	9.8	9.6	9.7	---	---	---	---	---	---
25	---	---	---	9.9	9.6	9.8	---	---	---	---	---	---
26	---	---	---	9.8	9.4	9.6	---	---	---	---	---	---
27	---	---	---	9.9	9.6	9.8	---	---	---	---	---	---
28	---	---	---	10.0	9.8	9.9	---	---	---	---	---	---
29	---	---	---	10.1	9.7	9.9	---	---	---	---	---	---
30	---	---	---	10.4	9.0	9.6	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	10.6	10.3	10.4
2	---	---	---	---	---	---	---	---	---	10.5	10.2	10.4
3	---	---	---	---	---	---	---	---	---	10.5	10.2	10.4
4	---	---	---	---	---	---	---	---	---	10.4	10.1	10.3
5	---	---	---	---	---	---	---	---	---	10.2	10.0	10.2
6	---	---	---	---	---	---	---	---	---	10.2	9.8	10.1
7	---	---	---	---	---	---	---	---	---	9.8	9.6	9.7
8	---	---	---	---	---	---	---	---	---	9.7	9.4	9.5
9	---	---	---	---	---	---	---	---	---	9.5	9.1	9.2
10	---	---	---	---	---	---	---	---	---	9.1	8.8	8.9
11	---	---	---	---	---	---	---	---	---	8.9	8.6	8.8
12	---	---	---	---	---	---	---	---	---	8.7	8.0	8.4
13	---	---	---	---	---	---	---	---	---	8.4	6.8	7.7
14	---	---	---	---	---	---	---	---	---	7.3	6.2	6.8
15	---	---	---	---	---	---	10.6	8.9	10.1	7.3	6.4	6.8
16	---	---	---	---	---	---	10.7	10.4	10.5	8.0	6.8	7.2
17	---	---	---	---	---	---	10.5	10.3	10.4	8.5	6.7	7.8
18	---	---	---	---	---	---	10.3	9.5	10.0	7.5	6.6	7.1
19	---	---	---	---	---	---	9.8	9.4	9.6	7.3	6.2	6.9
20	---	---	---	---	---	---	9.6	9.1	9.3	8.9	6.2	8.0
21	---	---	---	---	---	---	9.3	8.9	9.1	9.2	8.8	9.0
22	---	---	---	---	---	---	8.9	8.4	8.7	9.2	8.7	9.0
23	---	---	---	---	---	---	8.9	8.4	8.6	8.8	8.4	8.6
24	---	---	---	---	---	---	9.3	8.8	9.1	8.5	8.4	8.4
25	---	---	---	---	---	---	9.5	9.2	9.3	8.6	8.3	8.5
26	---	---	---	---	---	---	9.4	9.0	9.2	8.8	8.3	8.5
27	---	---	---	---	---	---	9.8	9.1	9.4	8.8	8.1	8.4
28	---	---	---	---	---	---	10.0	9.5	9.7	8.6	7.7	8.2
29	---	---	---	---	---	---	10.8	9.6	10.2	8.4	7.0	7.9
30	---	---	---	---	---	---	10.8	10.4	10.5	8.3	7.2	7.9
31	---	---	---	---	---	---	---	---	---	8.3	7.6	8.0
MONTH	---	---	---	---	---	---	---	---	---	10.6	6.2	8.6

THIS PAGE IS INTENTIONALLY BLANK.

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.

REVISED RECORDS.--WDR-98-1: Peak discharges and annual maximum.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 804.72 ft above NGVD of 1929.

REMARKS.--Records good.

COOPERATION.--Kentucky Natural Resources and Environmental Protection Cabinet.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 30	2330	2,010	6.67	Apr 30	0700	*2,290	*7.21

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

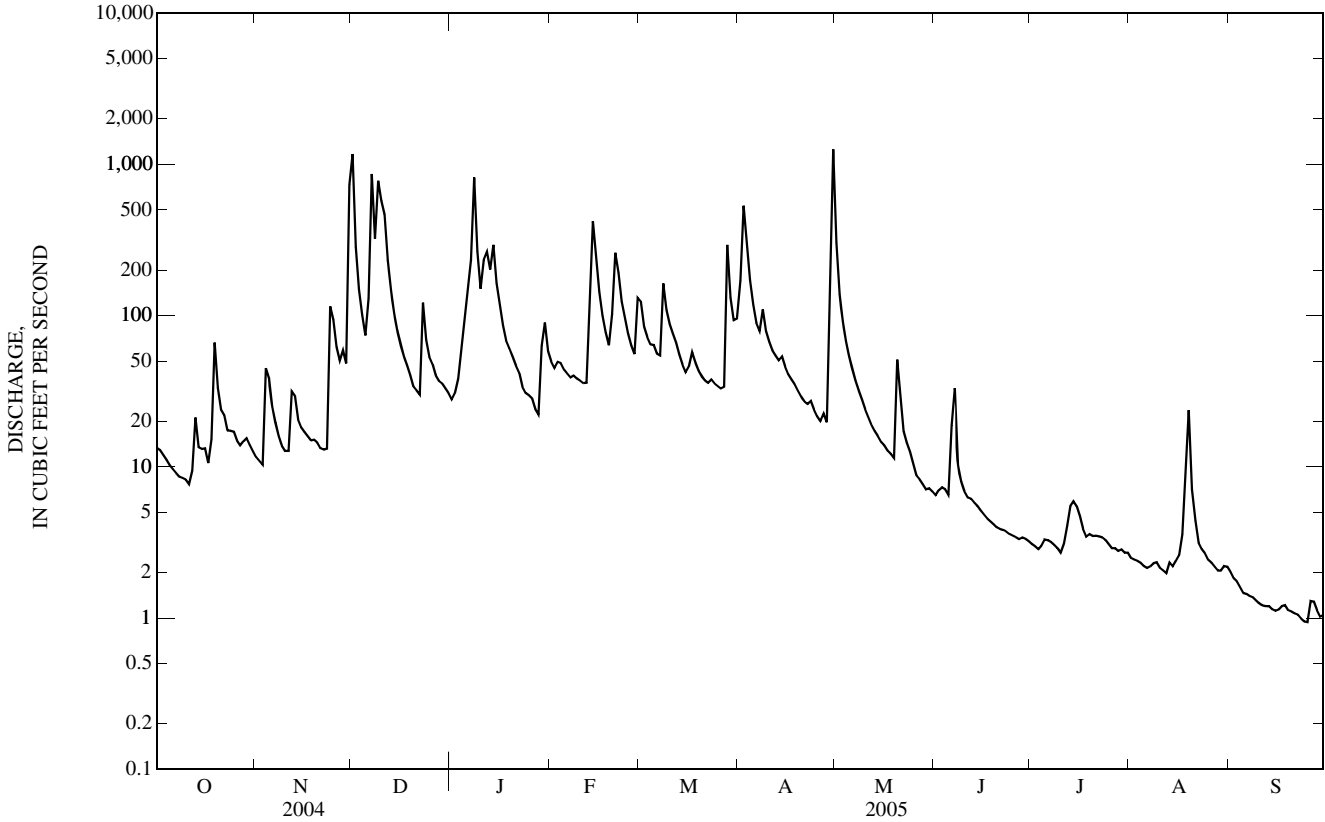
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	1,170	28	50	124	171	302	6.5	3.1	2.5	2.0
2	13	11	286	31	45	84	533	139	7.0	3.0	2.4	1.8
3	12	10	149	38	49	72	313	92	7.3	2.9	2.4	1.7
4	11	45	101	58	49	64	172	67	7.1	3.0	2.3	1.6
5	10	38	74	92	44	64	119	53	6.5	3.3	2.2	1.5
6	9.6	25	130	141	41	56	90	44	19	3.3	2.1	1.4
7	9.1	20	864	233	39	55	79	37	33	3.2	2.2	1.4
8	8.6	16	322	818	40	163	110	32	10	3.0	2.3	1.4
9	8.4	14	780	266	38	109	79	28	8.0	2.9	2.3	1.3
10	8.2	13	574	151	37	88	67	24	6.9	2.7	2.2	1.2
11	7.7	13	465	234	36	76	59	21	6.3	3.1	2.1	1.2
12	9.4	32	233	264	36	66	54	19	6.1	4.1	2.0	1.2
13	21	29	148	201	151	55	51	17	5.8	5.5	2.3	1.2
14	13	21	103	294	421	47	54	16	5.5	5.9	2.2	1.1
15	13	18	79	163	236	42	46	15	5.2	5.5	2.4	1.1
16	13	17	65	118	144	46	41	14	4.8	4.7	2.6	1.1
17	11	16	54	87	100	57	38	13	4.6	3.9	3.6	1.2
18	15	15	47	69	77	49	35	12	4.4	3.5	9.3	1.2
19	66	15	41	61	64	43	32	11	4.2	3.6	24	1.1
20	33	14	34	53	103	40	29	51	4.0	3.5	7.1	1.1
21	24	13	32	47	260	37	27	29	3.9	3.5	4.4	1.1
22	22	13	30	42	192	36	26	17	3.8	3.5	3.2	1.1
23	17	13	122	34	124	38	27	14	3.7	3.4	2.9	1.00
24	17	115	69	31	97	36	24	13	3.6	3.3	2.7	0.95
25	17	93	53	30	76	34	22	10	3.5	3.1	2.4	0.94
26	15	62	48	28	63	33	20	8.8	3.4	2.9	2.3	1.3
27	14	50	40	24	56	34	22	8.3	3.3	2.9	2.2	1.3
28	15	59	37	22	131	292	20	7.7	3.4	2.8	2.1	1.1
29	15	48	36	63	---	132	89	7.1	3.3	2.8	2.1	1.0
30	14	736	33	90	---	93	1,260	7.2	3.2	2.7	2.2	1.0
31	13	---	31	58	---	95	---	6.9	---	2.7	2.2	---
TOTAL	488.0	1,596	6,250	3,869	2,799	2,260	3,709	1,136.0	197.3	107.3	109.2	37.59
MEAN	15.7	53.2	202	125	100	72.9	124	36.6	6.58	3.46	3.52	1.25
MAX	66	736	1,170	818	421	292	1,260	302	33	5.9	24	2.0
MIN	7.7	10	30	22	36	33	20	6.9	3.2	2.7	2.0	0.94
CFSM	0.36	1.23	4.65	2.88	2.30	1.68	2.85	0.84	0.15	0.08	0.08	0.03
IN.	0.42	1.37	5.36	3.32	2.40	1.94	3.18	0.97	0.17	0.09	0.09	0.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2005, BY WATER YEAR (WY)

MEAN	16.6	30.2	85.4	94.7	120	118	87.7	44.3	36.2	13.3	13.6	18.1
MAX	164	99.3	306	155	281	299	242	114	151	37.5	82.2	117
(WY)	(1990)	(2004)	(1991)	(1994)	(2003)	(1997)	(1998)	(1995)	(1998)	(2001)	(2003)	(2004)
MIN	1.49	2.08	8.31	26.7	42.4	35.0	21.4	11.0	6.58	3.46	1.91	1.25
(WY)	(2000)	(2001)	(1998)	(2000)	(2002)	(2003)	(1995)	(2001)	(2005)	(2005)	(1990)	(2005)

03413200 BEAVER CREEK NEAR MONTICELLO, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1990 - 2005	
ANNUAL TOTAL	32,465.8		22,558.39		56.2	
ANNUAL MEAN	88.7		61.8		24.7	
HIGHEST ANNUAL MEAN					82.7	2004
LOWEST ANNUAL MEAN					24.7	2000
HIGHEST DAILY MEAN	2,140	Feb 6	1,260	Apr 30	2,200	Feb 16, 2003
LOWEST DAILY MEAN	5.3	Jul 30	0.94	Sep 25	0.94	Sep 25, 2005
ANNUAL SEVEN-DAY MINIMUM	6.0	Jul 19	1.0	Sep 19	1.0	Sep 19, 2005
MAXIMUM PEAK FLOW			2,290	Apr 30	3,880	Sep 17, 2004
MAXIMUM PEAK STAGE			7.21	Apr 30	10.05	Sep 17, 2004
INSTANTANEOUS LOW FLOW					0.50	Oct 2, 1968
ANNUAL RUNOFF (CFSM)	2.04		1.42		1.30	
ANNUAL RUNOFF (INCHES)	27.83		19.34		17.61	
10 PERCENT EXCEEDS	174		135		122	
50 PERCENT EXCEEDS	32		20		18	
90 PERCENT EXCEEDS	9.6		2.2		2.4	



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.

WATER DISCHARGE RECORDS

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 with telemetry. Datum of gage is 391.45 ft above NGVD of 1929. Prior to July 31, 1945, non-recording gage at same site and datum.

REMARKS.--Records good except for those estimated, which are fair.

COOPERATION.--U.S. Army Corps of Engineer, Nashville District and Kentucky Natural Resources and Environmental Protection Cabinet.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 3	0030	3,880	11.36	Aug 7	0700	6,060	14.57
Mar 28	1130	4,220	11.88	Aug 30	2030	*11,600	*19.70

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

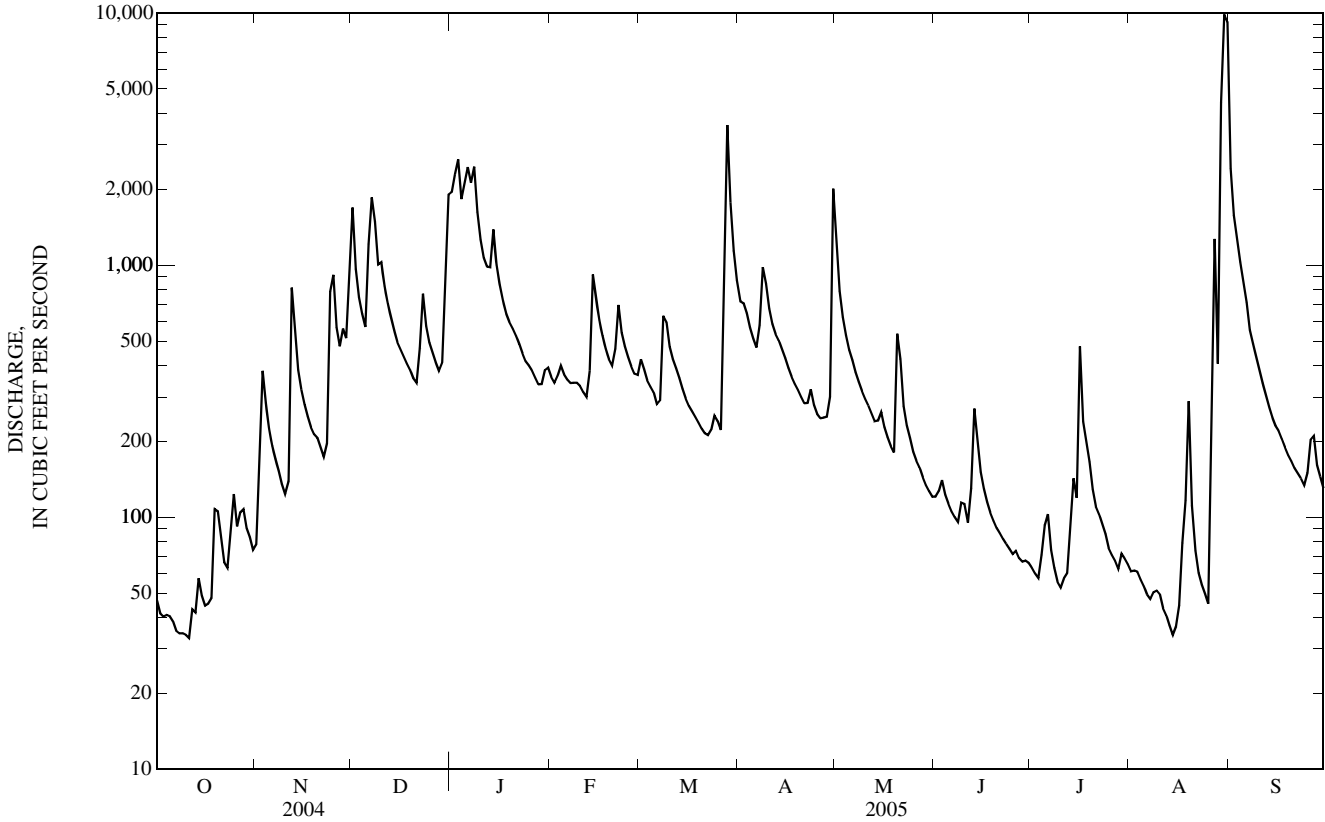
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	78	1,690	1,950	361	423	719	1,220	121	63	61	2,410
2	42	174	968	2,300	342	387	705	791	127	60	62	1,580
3	40	381	746	2,630	365	349	644	623	140	57	61	1,280
4	41	285	641	1,830	399	330	566	526	123	71	57	1,030
5	40	224	568	2,110	369	313	512	461	113	93	53	854
6	39	192	1,210	2,450	352	281	472	419	106	103	49	712
7	35	171	1,850	2,130	341	291	578	376	100	74	47	552
8	35	153	1,490	2,460	342	630	983	344	96	63	50	488
9	35	135	1,000	1,630	342	595	846	317	114	56	51	434
10	34	124	1,030	1,260	332	474	674	295	113	53	49	385
11	33	139	827	1,070	314	423	583	278	95	57	43	340
12	43	814	705	988	301	390	533	259	130	60	41	305
13	42	549	624	982	381	357	503	241	270	93	37	275
14	57	384	552	1,390	919	324	465	242	202	143	34	250
15	49	320	495	1,000	745	296	428	262	151	119	37	231
16	45	280	463	837	606	277	391	228	129	475	45	220
17	45	251	435	723	526	264	361	207	115	240	79	205
18	48	227	408	642	466	251	339	192	104	200	117	189
19	108	214	384	596	424	238	320	181	97	166	289	177
20	105	207	356	560	401	225	301	534	91	129	111	167
21	84	189	342	526	467	215	284	424	86	110	74	157
22	66	173	469	487	695	212	284	276	82	103	60	149
23	63	196	771	447	539	222	322	231	78	94	54	143
24	85	786	574	416	475	253	279	206	75	86	50	134
25	124	916	492	400	432	241	256	182	72	75	45	150
26	92	566	450	382	397	222	247	168	74	71	208	203
27	105	477	411	358	371	757	248	157	69	67	1,270	210
28	108	560	381	337	367	3,600	250	144	67	63	407	161
29	91	514	410	338	---	1,760	300	134	67	72	4,420	145
30	83	918	853	383	---	1,140	2,010	127	66	69	9,890	130
31	74	---	1,910	392	---	870	---	121	---	65	9,230	---
TOTAL	1,938	10,597	23,505	34,004	12,371	16,610	15,403	10,166	3,273	3,250	27,081	13,666
MEAN	62.5	353	758	1,097	442	536	513	328	109	105	874	456
MAX	124	918	1,910	2,630	919	3,600	2,010	1,220	270	475	9,890	2,410
MIN	33	78	342	337	301	212	247	121	66	53	34	130
CFSM	0.26	1.45	3.11	4.50	1.81	2.20	2.10	1.34	0.45	0.43	3.58	1.87
IN.	0.30	1.62	3.58	5.18	1.89	2.53	2.35	1.55	0.50	0.50	4.13	2.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

	75.6	216	471	559	683	748	550	441	226	145	109	108
MEAN	75.6	216	471	559	683	748	550	441	226	145	109	108
MAX	609	1,677	1,985	2,168	2,130	3,653	1,924	1,875	1,498	790	874	925
(WY)	(2003)	(1958)	(1979)	(1950)	(1989)	(1997)	(1979)	(1984)	(1998)	(1989)	(2005)	(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)

03438000 LITTLE RIVER NEAR CADIZ, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	127,067		171,864		360	
ANNUAL MEAN	347		471		757	
HIGHEST ANNUAL MEAN					1997	
LOWEST ANNUAL MEAN					1941	
HIGHEST DAILY MEAN	2,670	Apr 24	9,890	Aug 30	24,300	Mar 2, 1997
LOWEST DAILY MEAN	33	Oct 11	33	Oct 11	3.6	Oct 3, 1941
ANNUAL SEVEN-DAY MINIMUM	36	Oct 5	36	Oct 5	7.0	Oct 24, 1940
MAXIMUM PEAK FLOW			11,600	Aug 30	37,600	Mar 1, 1997
MAXIMUM PEAK STAGE			19.54	Aug 30	26.44	Mar 1, 1997
INSTANTANEOUS LOW FLOW					1.0	Oct 3, 1941
ANNUAL RUNOFF (CFSM)	1.42		1.93		1.47	
ANNUAL RUNOFF (INCHES)	19.37		26.20		20.03	
10 PERCENT EXCEEDS	756		974		836	
50 PERCENT EXCEEDS	226		277		145	
90 PERCENT EXCEEDS	67		57		28	



03438500 CUMBERLAND RIVER AT SMITHLAND, KY—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Tri- allate, water, fltrd 0.7u GF ug/L (82678)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
DEC 15...	<0.006	<0.009	0.19	96	25
MAR 08...	<.006	<.009	.12	99	27
APR 20...	<.006	<.009	--	94	20
20...	<.006	<.009	--	94	20
JUN 13...	<.006	<.009	.19	96	62
13...	--	--	<.04	--	--
AUG 11...	<.006	<.009	.16	97	18
11...	--	--	--	--	--

E--Laboratory estimated value.

M--Presence of material verified but not quantified.

<--Numeric result is less than the value shown.

03609750 TENNESSEE RIVER AT HIGHWAY 60 NEAR PADUCAH, KY—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Pheophytin a, phytoplankton, ug/L (62360)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Arsenic water, fltrd, ug/L (01000)
NOV 19...	0.46	0.013	0.04	0.058	0.070	0.09	0.2	<0.1	0.2	2.2	E1.5	E1.1	0.7
FEB 03...	.53	E.007	.07	.032	.041	.06	.5	<.1	.5	1.9	--	--	.4
03...	.020	<.002	--	<.006	--	--	--	--	--	--	--	--	--
APR 07...	.34	E.004	.14	.006	.012	.04	.7	<.1	.7	1.5	3.1	8.8	.5
07...	--	--	<.02	--	--	--	<.1	<.1	<.1	E0.3	--	--	--
MAY 26...	.09	.014	.17	<.006	.009	.05	.8	<.1	.8	2.6	4.6	7.3	.5
26...	.09	.014	.17	<.006	.009	.05	.9	<.1	.8	2.2	6.4	7.2	.5
JUL 06...	.10	<.008	.15	.007	.021	.04	.9	<.1	.9	2.5	E3.6	E5.7	.9
06...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Boron, water, fltrd, ug/L (01020)	Iron, water, fltrd, ug/L (01046)	Lithium water, fltrd, ug/L (01130)	Selenium, water, fltrd, ug/L (01145)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)	2,6-Diethyl-aniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	Aceto-chlor, water, fltrd, ug/L (49260)	Ala-chlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)	Atra-zine, water, fltrd, ug/L (39632)	Azin-phos-methyl, water, fltrd 0.7u GF ug/L (82686)
NOV 19...	17	9	0.8	<0.4	58.2	0.8	<0.006	E0.006	<0.006	<0.005	<0.005	0.028	<0.050
FEB 03...	17	17	1.2	<.4	58.3	1.1	<.006	E.006	<.006	<.005	<.005	.015	<.050
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 07...	16	10	.9	E.2	75.3	.4	<.006	<.006	<.006	<.005	<.005	.013	<.050
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 26...	18	7	1.0	E.3	43.7	.5	<.006	E.019	<.006	<.005	<.005	.280	<.050
26...	16	E6	.9	E.2	42.9	.5	<.006	E.020	<.006	<.005	<.005	.268	<.050
JUL 06...	21	6	.6	E.2	63.4	.8	<.006	E.026	<.006	<.005	<.005	.286	<.050
06...	--	--	--	--	--	--	<.006	<.006	<.006	<.005	<.005	<.007	<.050

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Ben-flur-alin, water, fltrd 0.7u GF ug/L (82673)	Butyl-ate, water, fltrd, ug/L (04028)	Car-baryl, water, fltrd 0.7u GF ug/L (82680)	Carbo-furan, water, fltrd 0.7u GF ug/L (82674)	Chlor-pyrifos water, fltrd, ug/L (38933)	cis-Per-methrin water fltrd 0.7u GF ug/L (82687)	Cyana-zine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF ug/L (82682)	Diazi-non, water, fltrd, ug/L (39572)	Diel-drin, water, fltrd, ug/L (39381)	Disul-foton, water, fltrd 0.7u GF ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethal-flur-alin, water, fltrd 0.7u GF ug/L (82663)
NOV 19...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<0.02	<0.004	<0.009
FEB 03...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 07...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 26...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009
26...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009
JUL 06...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009
06...	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009

03609750 TENNESSEE RIVER AT HIGHWAY 60 NEAR PADUCAH, KY—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Etho- prop, water, fltrd 0.7u GF (82672)	Fonofos water, fltrd, ug/L (04095)	Lindane water, fltrd, ug/L (39341)	Linuron water, fltrd 0.7u GF (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl para- thion, water, fltrd 0.7u GF (82667)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Moli- nate, water, fltrd 0.7u GF (82671)	Naprop- amide, water, fltrd 0.7u GF (82684)	p,p'- DDE, water, fltrd, ug/L (34653)	Para- thion, water, fltrd, ug/L (39542)	Peb- ulate, water, fltrd 0.7u GF (82669)
NOV 19...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	0.008	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
FEB 03...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	E.003	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 07...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	<0.006	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 26...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	.038	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
26...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	.037	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
JUL 06...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	.058	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004
06...	<0.005	<0.003	<0.004	<0.035	<0.027	<0.015	<0.006	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Pendi- meth- alin, water, fltrd 0.7u GF (82683)	Phorate water fltrd 0.7u GF (82664)	Prome- ton, water, fltrd, ug/L (04037)	Propy- zamide, water, fltrd 0.7u GF (82676)	Pro- panil, water, fltrd, ug/L (04024)	Pro- panil, water, fltrd 0.7u GF (82679)	Propar- gite, water, fltrd 0.7u GF (82685)	Sim- azine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF (82670)	Terba- cil, water, fltrd 0.7u GF (82665)	Terbu- fos, water, fltrd 0.7u GF (82675)	Thio- bencarb water fltrd 0.7u GF (82681)	Tri- allate, water, fltrd 0.7u GF (82678)
NOV 19...	<0.022	<0.011	<0.01	<0.004	<0.025	<0.011	<0.02	0.020	<0.02	<0.034	<0.02	<0.010	<0.006
FEB 03...	<0.022	<0.011	<.01	<0.004	<0.025	<0.011	<.02	.012	<.02	<.034	<.02	<.010	<.006
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 07...	<0.022	<0.011	<.01	<0.004	<0.025	<0.011	<.02	.022	<.02	<.034	<.02	<.010	<.006
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 26...	<0.022	<0.011	M	<0.004	<0.025	<0.011	<.02	.048	E.01	<.034	<.02	<.010	<.006
26...	<0.022	<0.011	M	<0.004	<0.025	<0.011	<.02	.046	E.01	<.034	<.02	<.010	<.006
JUL 06...	<0.022	<0.011	M	<0.004	<0.025	<0.011	<.02	.025	.02	<.034	<.02	<.010	<.006
06...	<0.022	<0.011	<.01	<0.004	<0.025	<0.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Tri- flur- alin, water, fltrd 0.7u GF (82661)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
NOV 19...	<0.009	99	5
FEB 03...	<0.009	100	5
03...	--	--	--
APR 07...	<0.009	99	17
07...	--	--	--
MAY 26...	<0.009	98	7
26...	<0.009	99	8
JUL 06...	<0.009	96	5
06...	<0.009	--	--

E--Laboratory estimated value.
M--Presence of material verified but not quantified.
<--Numeric result is less than the value shown.

THIS PAGE IS INTENTIONALLY BLANK.

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 with telemetry and crest-stage gage. Datum of gage is 413.46 ft above NGVD of 1929.

REMARKS.--Records fair except those estimated, which are poor.

COOPERATION.--Kentucky Natural Resources and Environmental Protection Cabinet.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 2	1715	6,780	14.99	Jun 12	2030	5,870	14.58
Dec 7	1200	4,180	13.64	Aug 30	2300	*8,620	*15.64
Mar 28	0615	5,850	14.57				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	291	739	377	58	60	109	209	28	31	24	149
2	7.0	5,040	201	1,160	70	54	104	113	70	30	23	96
3	6.6	887	137	402	128	52	81	78	38	29	23	67
4	e7.6	156	112	502	87	51	69	62	30	28	23	52
5	e6.4	94	145	351	70	50	61	53	26	31	23	43
6	e6.2	67	1,540	1,850	62	46	102	48	24	28	87	38
7	e6.1	52	2,420	739	66	62	802	43	23	28	37	34
8	8.2	42	329	1,010	94	192	269	39	23	27	17	30
9	e8.8	34	192	248	81	90	142	35	30	28	14	27
10	8.7	30	161	172	68	67	102	37	23	27	14	24
11	13	70	126	143	59	60	87	33	22	55	12	22
12	39	182	106	128	55	55	127	31	3,210	74	11	20
13	15	60	90	772	353	53	126	30	833	79	9.9	19
14	e13	38	76	332	309	50	180	300	133	76	13	18
15	e14	31	69	149	147	46	84	110	94	186	32	23
16	e14	28	65	116	103	46	63	46	74	166	22	22
17	e15	26	61	93	79	45	54	37	64	407	63	17
18	42	25	59	80	68	43	50	33	57	108	36	15
19	354	47	56	76	62	41	45	32	51	56	19	15
20	e37	40	53	74	67	40	42	46	47	49	13	15
21	e17	31	52	71	199	39	47	34	44	41	11	14
22	e16	27	759	66	164	55	224	29	42	37	11	13
23	197	291	274	58	94	107	107	28	40	33	10	13
24	175	882	142	55	77	67	52	28	37	31	10	12
25	30	184	104	56	67	53	43	26	35	29	10	20
26	27	73	86	57	61	48	52	25	35	28	41	28
27	35	135	75	53	57	1,140	48	24	40	27	114	15
28	32	361	74	51	62	3,220	49	23	35	26	95	13
29	25	97	486	67	---	298	201	22	34	25	1,130	13
30	21	1,690	1,770	75	---	167	1,980	22	32	24	4,960	11
31	18	---	1,230	63	---	131	---	22	---	23	1,890	---
TOTAL	1,221.4	11,011	11,789	9,446	2,867	6,528	5,502	1,698	5,274	1,867	8,797.9	898
MEAN	39.4	367	380	305	102	211	183	54.8	176	60.2	284	29.9
MAX	354	5,040	2,420	1,850	353	3,220	1,980	300	3,210	407	4,960	149
MIN	6.1	25	52	51	55	39	42	22	22	23	9.9	11
CFSM	0.29	2.74	2.84	2.27	0.76	1.57	1.37	0.41	1.31	0.45	2.12	0.22
IN.	0.34	3.06	3.27	2.62	0.80	1.81	1.53	0.47	1.46	0.52	2.44	0.25

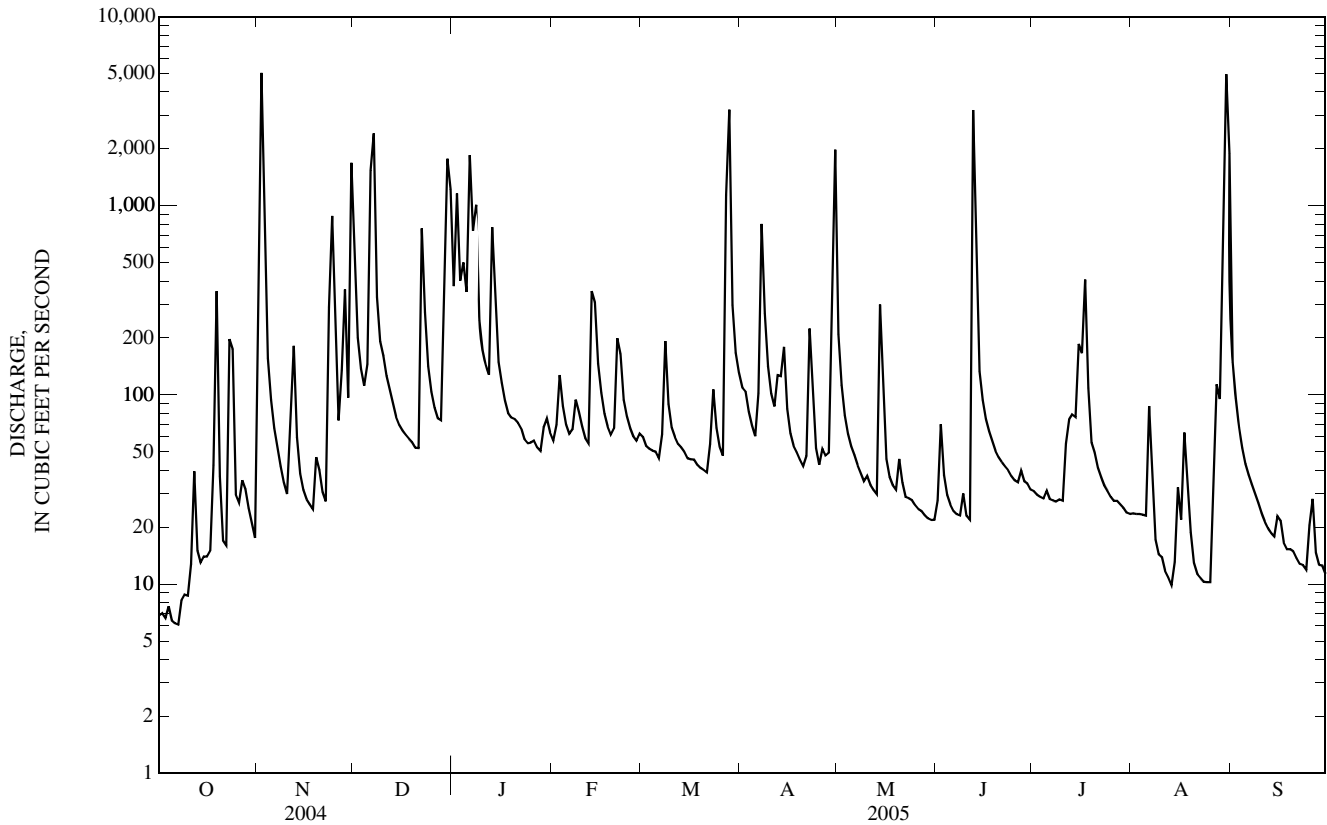
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2005, BY WATER YEAR (WY)

MEAN	57.2	190	338	220	391	267	232	245	130	65.8	53.2	40.9
MAX	258	1,039	1,097	583	1,693	1,336	623	925	667	264	377	357
(WY)	(2003)	(2002)	(2002)	(1999)	(1989)	(1997)	(1983)	(1983)	(1998)	(1989)	(1995)	(2002)
MIN	2.96	7.43	24.4	27.1	65.5	61.7	21.6	12.4	3.88	4.95	2.40	2.36
(WY)	(1988)	(2000)	(1996)	(2001)	(1996)	(1995)	(1986)	(1988)	(1988)	(1986)	(1983)	(1983)

03610200 CLARKS RIVER AT ALMO, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1983 - 2005	
ANNUAL TOTAL	58,338.3		66,899.3		185	
ANNUAL MEAN	159		183		405	
HIGHEST ANNUAL MEAN					2002	
LOWEST ANNUAL MEAN					1987	
HIGHEST DAILY MEAN	5,040	Nov 2	5,040	Nov 2	14,000	Mar 2, 1997
LOWEST DAILY MEAN	5.9	Aug 17	6.1	Oct 7	1.6	Aug 29, 1983
ANNUAL SEVEN-DAY MINIMUM	6.3	Aug 12	6.7	Oct 1	1.7	Aug 31, 1983
MAXIMUM PEAK FLOW			8,620	Aug 30	23,300	Mar 2, 1997
MAXIMUM PEAK STAGE			15.64	Aug 30	18.35	Mar 2, 1997
ANNUAL RUNOFF (CFSM)	1.19		1.37		1.38	
ANNUAL RUNOFF (INCHES)	16.20		18.57		18.72	
10 PERCENT EXCEEDS	279		304		307	
50 PERCENT EXCEEDS	46		52		34	
90 PERCENT EXCEEDS	8.9		15		6.0	

e Estimated



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 with telemetry. Datum of gage is 345.53 ft above NGVD of 1929.

REMARKS.--Records good.

COOPERATION.--Kentucky Natural Resources and Environmental Protection Cabinet.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Aug. 30	0915	*1,270	*9.95				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.52	15	30	25	0.32	1.1	11	15	0.99	e1.3	0.67	6.0
2	0.60	190	13	183	0.39	0.56	11	7.9	0.99	e1.1	0.66	2.7
3	0.61	11	8.3	139	0.98	0.42	7.6	5.0	0.99	e1.0	0.68	1.5
4	0.56	5.8	5.6	168	0.39	0.35	5.9	3.7	0.92	e1.3	0.65	1.2
5	0.56	3.6	33	127	0.35	0.33	4.6	3.2	0.88	e1.5	0.60	1.0
6	0.55	3.0	43	228	0.34	0.29	11	2.9	0.84	e1.3	0.61	0.86
7	0.50	2.6	222	66	116	4.3	24	2.5	0.78	e1.2	10	0.73
8	0.53	2.2	28	49	20	5.8	23	2.1	4.0	1.2	5.3	0.66
9	0.53	2.0	20	18	8.4	0.95	11	2.1	23	1.1	0.71	0.62
10	0.53	1.9	17	12	3.2	0.56	7.3	2.0	41	1.1	0.59	0.94
11	3.1	31	14	9.5	1.2	0.43	11	2.0	21	19	0.56	0.44
12	13	34	13	7.9	0.78	0.35	23	1.9	222	51	0.55	0.19
13	2.3	6.7	12	242	37	0.32	125	1.8	40	25	0.54	0.15
14	1.7	3.8	10	24	14	0.28	25	3.5	e6.4	6.9	0.86	0.15
15	2.5	2.8	9.5	11	5.1	0.26	14	2.3	e2.0	33	2.0	0.40
16	2.3	2.6	9.2	6.4	2.0	0.24	10	2.0	e1.1	9.0	19	0.19
17	1.8	2.3	8.7	2.8	0.97	0.23	8.3	2.0	e1.0	3.8	1.7	0.16
18	15	2.7	8.2	1.8	0.46	0.22	6.5	1.7	e0.90	2.6	5.5	0.17
19	5.5	13	7.6	2.0	0.39	0.21	5.1	1.5	e0.90	3.3	3.6	0.14
20	1.9	4.9	6.9	1.5	0.38	0.20	4.4	2.3	e0.87	1.5	0.78	1.0
21	1.6	3.1	7.5	1.1	121	0.18	4.1	2.1	e0.87	2.0	0.65	0.20
22	1.5	2.6	51	0.72	16	11	115	1.8	e0.85	1.4	1.2	0.16
23	2.1	13	e8.6	0.42	7.7	13	14	1.7	e0.85	4.0	1.0	0.12
24	2.8	19	e3.9	0.40	4.2	1.6	8.1	1.5	e0.85	1.1	0.62	0.12
25	2.1	7.1	e2.8	0.42	1.9	1.3	5.3	1.5	e0.85	0.95	0.60	14
26	1.9	4.0	e2.6	0.37	1.2	0.83	5.9	1.3	e0.85	0.91	0.65	4.6
27	2.3	44	e3.4	0.28	0.81	229	3.7	1.2	e0.85	0.88	0.71	0.25
28	1.2	19	e17	0.25	1.7	273	3.9	1.1	e0.89	0.82	0.71	0.19
29	1.2	36	146	0.74	---	33	71	1.1	e1.1	0.73	2.1	4.7
30	1.4	135	74	0.52	---	18	77	1.0	e1.3	0.71	379	0.23
31	1.6	---	27	0.36	---	13	---	0.99	---	0.68	19	---
TOTAL	74.29	623.7	862.8	1,329.48	367.16	611.31	656.7	82.69	379.82	181.38	461.80	43.77
MEAN	2.40	20.8	27.8	42.9	13.1	19.7	21.9	2.67	12.7	5.85	14.9	1.46
MAX	15	190	222	242	121	273	125	15	222	51	379	14
MIN	0.50	1.9	2.6	0.25	0.32	0.18	3.7	0.99	0.78	0.68	0.54	0.12

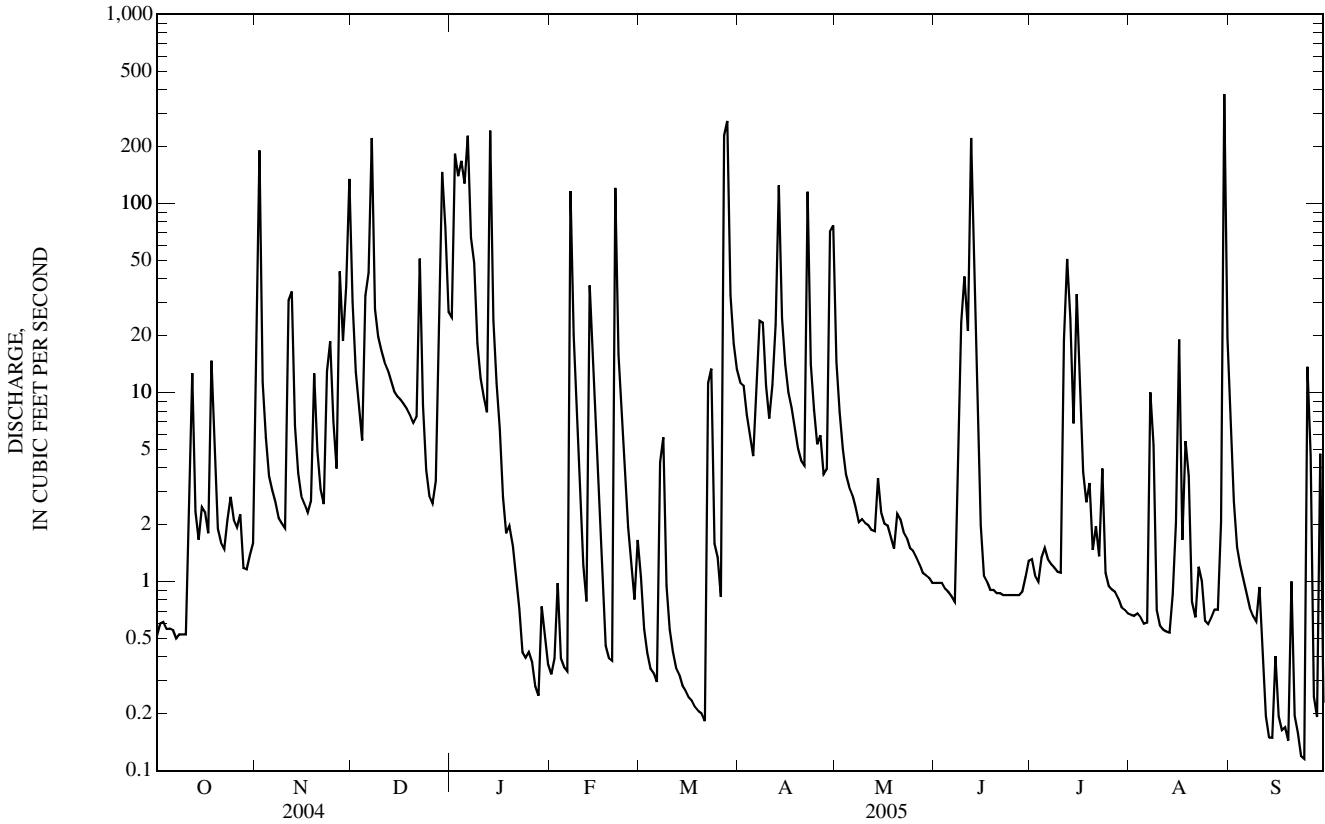
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2005, BY WATER YEAR (WY)

MEAN	3.47	15.3	28.1	23.8	34.8	30.0	29.6	19.9	10.5	8.00	3.14	4.05
MAX	19.4	70.8	105	65.8	160	109	121	102	53.8	37.3	14.9	50.1
(WY)	(1986)	(1997)	(1983)	(2000)	(1989)	(1997)	(1973)	(2002)	(1998)	(1983)	(2005)	(1985)
MIN	0.25	0.37	0.71	0.58	4.19	8.37	2.14	1.17	0.32	0.37	0.30	0.23
(WY)	(1982)	(1972)	(1977)	(1977)	(1996)	(1987)	(1986)	(1992)	(1972)	(1974)	(1980)	(1976)

03611260 MASSAC CREEK NEAR PADUCAH, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1972 - 2005	
ANNUAL TOTAL	4,642.21		5,674.90		17.5	
ANNUAL MEAN	12.7		15.5		37.9	
HIGHEST ANNUAL MEAN					1979	
LOWEST ANNUAL MEAN					6.54	
HIGHEST DAILY MEAN	352	Jun 16	379	Aug 30	1,910	Jan 3, 2000
LOWEST DAILY MEAN	0.38	Jul 29	0.12	Sep 23	0.09	Nov 13, 1971
ANNUAL SEVEN-DAY MINIMUM	0.43	Aug 13	0.19	Sep 13	0.10	Nov 10, 1971
MAXIMUM PEAK FLOW			1,270	Aug 30	5,990	Sep 5, 1985
MAXIMUM PEAK STAGE			9.95	Aug 30	15.86	Sep 5, 1985
INSTANTANEOUS LOW FLOW			0.50	Oct 7	0.06	Nov 14, 1971
10 PERCENT EXCEEDS	30		30		28	
50 PERCENT EXCEEDS	2.6		2.0		2.2	
90 PERCENT EXCEEDS	0.53		0.39		0.45	

e Estimated



03611500 OHIO RIVER AT METROPOLIS, IL

LOCATION.--Lat 37°08'51", long 88°44'27", Massac County IL., 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 with telemetry. Datum of gage is 276.27 ft above NGVD of 1929. 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.--Records fair except those below 100,000 ft³/s and those estimated, which are poor. Flow regulated by many dams and reservoirs. Maximum daily discharge includes overflow through Bay Creek and Cache River Valleys.

COOPERATION.--Kentucky Natural Resources and Environmental Protection Cabinet and U.S. Army Corps of Engineers, Louisville District and National Stream Quality Accounting Network.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132,000	e179,000	546,000	457,000	495,000	553,000	567,000	419,000	92,200	e83,600	e75,000	e276,000
2	208,000	e194,000	606,000	507,000	e447,000	518,000	e569,000	445,000	67,700	e103,000	e90,000	296,000
3	223,000	e219,000	645,000	529,000	412,000	e499,000	572,000	e457,000	109,000	e58,900	e110,000	e250,000
4	217,000	e261,000	687,000	e537,000	393,000	481,000	592,000	470,000	e116,000	e110,000	115,000	e190,000
5	212,000	e312,000	711,000	547,000	349,000	442,000	605,000	462,000	e70,000	e49,200	e95,000	e155,000
6	173,000	e388,000	734,000	598,000	335,000	441,000	e617,000	459,000	e112,000	e85,000	e75,000	e139,000
7	e130,000	e403,000	768,000	652,000	352,000	405,000	629,000	e410,000	e119,000	e105,000	e52,000	e115,000
8	e109,000	e428,000	817,000	711,000	371,000	337,000	667,000	362,000	e113,000	e90,000	e65,000	127,000
9	e116,000	e440,000	855,000	776,000	380,000	e323,000	710,000	263,000	e127,000	e130,000	e86,100	e103,000
10	e130,000	e415,000	879,000	822,000	399,000	358,000	721,000	e196,000	e131,000	e150,000	e89,900	e85,000
11	e140,000	e312,000	862,000	850,000	408,000	397,000	715,000	e174,000	e170,000	e230,000	e75,000	e73,000
12	e141,000	e267,000	846,000	890,000	386,000	416,000	694,000	154,000	e137,000	e249,000	e75,000	e90,000
13	e140,000	317,000	842,000	946,000	382,000	438,000	656,000	139,000	e181,000	e160,000	e85,000	e120,000
14	e145,000	399,000	862,000	990,000	438,000	457,000	578,000	134,000	e208,000	e89,400	e70,000	e90,000
15	e148,000	408,000	872,000	1,020,000	463,000	446,000	491,000	155,000	e212,000	e115,000	e77,500	e95,000
16	e149,000	378,000	858,000	1,030,000	484,000	406,000	370,000	187,000	e198,000	e86,000	e69,500	e95,000
17	e141,000	326,000	850,000	1,000,000	509,000	336,000	288,000	206,000	e170,000	e75,000	e77,400	e80,000
18	e140,000	261,000	833,000	1,000,000	520,000	294,000	224,000	229,000	e150,000	e120,000	e65,100	e75,000
19	e170,000	230,000	800,000	1,000,000	527,000	230,000	183,000	241,000	e120,000	e135,000	e62,500	e102,000
20	e210,000	227,000	714,000	1,010,000	533,000	197,000	168,000	229,000	e99,000	e140,000	e71,200	e96,000
21	e363,000	280,000	573,000	1,020,000	544,000	241,000	143,000	213,000	e90,000	e150,000	e82,300	e79,000
22	390,000	331,000	499,000	1,030,000	538,000	243,000	137,000	232,000	e110,000	e145,000	e89,700	e102,000
23	414,000	349,000	415,000	1,030,000	568,000	221,000	159,000	263,000	e95,800	e150,000	e89,800	e95,000
24	403,000	358,000	395,000	1,020,000	593,000	219,000	163,000	287,000	e83,100	e140,000	e84,300	e95,000
25	340,000	379,000	425,000	1,010,000	601,000	216,000	184,000	e289,000	e70,000	e128,000	e75,100	e96,000
26	277,000	384,000	465,000	969,000	598,000	218,000	221,000	253,000	e60,000	e116,000	e76,400	101,000
27	e245,000	437,000	488,000	920,000	590,000	e242,000	255,000	175,000	e48,000	e105,000	e116,000	e118,000
28	e210,000	457,000	499,000	849,000	580,000	334,000	282,000	135,000	e75,400	e121,000	e140,000	e140,000
29	e202,000	471,000	477,000	740,000	---	421,000	e321,000	e100,000	e60,300	e117,000	e150,000	e116,000
30	e192,000	504,000	418,000	657,000	---	520,000	362,000	e99,000	e50,600	e85,000	e200,000	e121,000
31	e183,000	---	417,000	574,000	---	551,000	---	100,000	---	e80,000	e250,000	---
TOTAL	6,393,000	10,314,000	20,658,000	25,691,000	13,195,000	11,400,000	12,843,000	7,937,000	3,445,100	3,701,100	2,934,800	3,715,000
MEAN	206,200	343,800	666,400	828,700	471,200	367,700	428,100	256,000	114,800	119,400	94,670	123,800
MAX	414,000	504,000	879,000	1,030,000	601,000	553,000	721,000	470,000	212,000	249,000	250,000	296,000
MIN	109,000	179,000	395,000	457,000	335,000	197,000	137,000	99,000	48,000	49,200	52,000	73,000

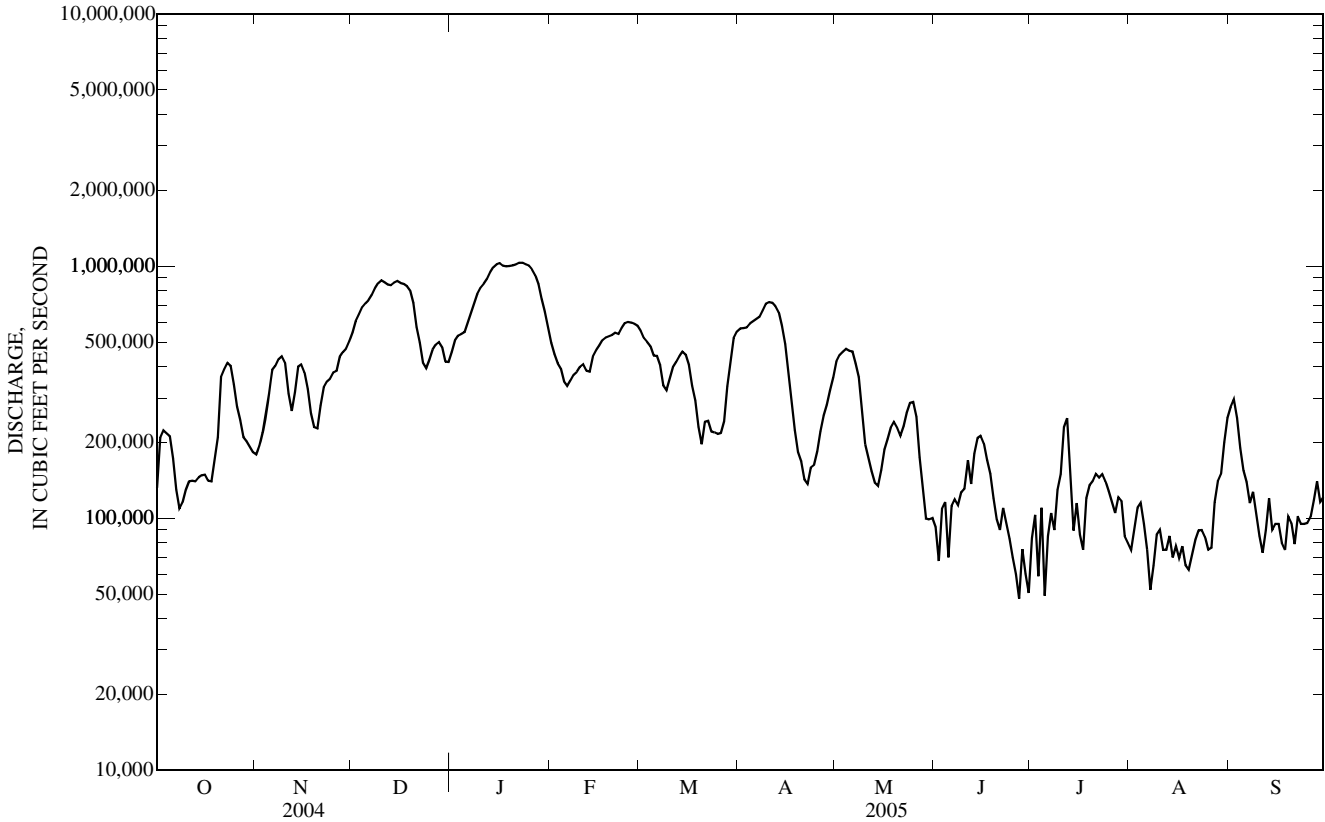
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2005, BY WATER YEAR (WY)

MEAN	106,900	169,600	298,000	399,800	469,100	519,300	453,100	342,500	223,300	154,500	123,600	105,300
MAX	335,600	450,300	717,500	1,022,000	1,217,000	1,039,000	896,400	917,800	596,400	441,200	331,100	383,500
(WY)	(1980)	(1986)	(1973)	(1937)	(1937)	(1997)	(1994)	(1983)	(1997)	(1928)	(1958)	(1979)
MIN	22,710	33,400	48,610	71,650	77,380	154,700	129,900	75,180	53,840	23,350	25,390	29,330
(WY)	(1931)	(1931)	(1931)	(1940)	(1934)	(1941)	(1986)	(1941)	(1936)	(1930)	(1930)	(1930)

03611500 OHIO RIVER AT METROPOLIS, IL—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1928 - 2005	
ANNUAL TOTAL	137,390,800		122,227,000			
ANNUAL MEAN	375,400		334,900		278,800	
HIGHEST ANNUAL MEAN					436,600	1979
LOWEST ANNUAL MEAN					120,300	1931
HIGHEST DAILY MEAN	879,000	Dec 10	1,030,000	Jan 16	1,850,000	Feb 1, 1937
LOWEST DAILY MEAN	82,000	Aug 20	48,000	Jun 27	15,000	Jul 20, 1930
ANNUAL SEVEN-DAY MINIMUM	93,900	Aug 15	63,900	Jun 24	16,600	Jul 20, 1930
MAXIMUM PEAK FLOW			1,050,000	Jan 16	1,850,000	Feb 1, 1937
MAXIMUM PEAK STAGE			55.02	Jan 16	66.60	Feb 2, 1937
10 PERCENT EXCEEDS	709,000		717,000		639,000	
50 PERCENT EXCEEDS	334,000		245,000		193,000	
90 PERCENT EXCEEDS	143,000		85,000		69,300	

e Estimated



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 with telemetry. Datum of gage is 366.06 ft above NGVD of 1929 (levels by U.S. Department of Energy).

REMARKS.--Records fair except those estimated, which are poor.

COOPERATION.--Kentucky Cabinet for Health Services.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.16	18	4.8	4.0	2.1	2.2	4.4	1.8	0.12	e0.43	0.16	0.55
2	0.18	63	0.88	58	2.3	1.8	4.5	0.92	0.13	e0.43	0.18	0.41
3	0.18	0.35	0.35	20	2.9	1.8	3.4	0.63	0.05	e0.36	0.18	0.33
4	0.18	0.05	0.17	37	2.5	1.7	3.1	0.47	0.05	e0.45	0.15	0.33
5	0.15	0.02	17	64	2.3	1.6	2.9	0.38	0.03	e0.23	0.14	0.37
6	0.16	0.02	8.8	66	2.2	1.6	6.6	0.32	0.02	0.11	0.15	0.39
7	0.16	0.02	71	14	23	2.7	29	0.30	0.02	0.08	0.57	0.39
8	0.17	0.02	1.8	13	9.2	3.5	16	0.27	0.14	0.07	0.36	0.37
9	0.20	0.02	0.68	4.3	4.3	2.3	5.8	0.34	0.23	0.06	0.22	0.35
10	0.26	0.02	0.31	3.1	2.9	2.0	3.6	0.34	0.65	0.06	0.21	0.34
11	0.55	3.0	0.14	2.6	2.3	1.8	4.2	0.26	0.60	5.3	0.22	0.32
12	2.5	2.3	0.08	2.3	2.1	1.7	41	0.21	21	49	0.26	0.30
13	0.43	0.10	0.04	91	20	1.6	80	0.33	2.0	7.8	0.24	0.30
14	0.64	0.03	0.02	8.0	10	1.5	9.7	3.0	0.61	1.3	0.36	0.32
15	1.2	0.02	0.02	3.8	4.1	1.4	4.8	0.54	0.40	0.65	0.37	0.46
16	0.48	0.02	0.03	e3.2	2.8	1.4	3.5	e0.31	0.29	0.69	0.47	0.24
17	0.44	0.02	0.04	e2.3	2.3	1.4	2.7	0.21	0.19	0.43	0.29	0.30
18	2.9	0.04	0.05	e2.1	2.0	1.4	2.4	0.17	e0.32	0.33	0.38	0.31
19	1.4	0.74	0.04	e2.2	1.8	1.4	2.0	0.17	e0.32	1.4	0.25	0.30
20	0.53	0.11	0.03	1.9	1.9	1.3	e1.8	0.32	e0.32	0.42	0.27	0.45
21	0.47	0.03	0.06	1.8	56	1.3	1.6	0.26	e0.32	0.22	0.24	0.34
22	0.47	0.03	e0.22	1.7	6.8	3.9	56	0.24	e0.32	0.15	0.31	0.32
23	2.0	1.1	e0.57	1.6	4.0	3.2	2.6	0.21	e0.32	0.12	0.18	0.32
24	1.4	0.88	e0.56	1.5	3.2	2.2	1.4	0.18	e0.33	0.12	0.21	0.30
25	0.79	0.25	e0.59	1.6	2.7	2.6	0.89	0.14	e0.34	0.12	0.22	4.1
26	3.7	0.08	e0.52	1.6	2.3	2.2	1.1	0.13	e0.34	0.11	0.33	1.5
27	1.7	11	e0.56	1.4	2.1	124	0.75	0.09	e0.34	0.13	0.28	0.27
28	1.2	1.7	e0.51	1.3	2.4	153	0.65	0.10	e0.36	0.14	0.19	0.59
29	1.2	6.2	e4.1	1.7	---	8.0	4.4	0.08	e0.39	0.13	0.29	5.3
30	1.5	33	e19	1.8	---	4.3	11	0.05	e0.44	0.13	e180	0.32
31	1.6	---	4.6	1.9	---	4.0	---	0.03	---	0.14	e8.3	---
TOTAL	28.90	142.17	137.57	420.7	182.5	344.8	311.79	12.80	30.99	71.11	195.98	20.49
MEAN	0.93	4.74	4.44	13.6	6.52	11.1	10.4	0.41	1.03	2.29	6.32	0.68
MAX	3.7	63	71	91	56	153	80	3.0	21	49	180	5.3
MIN	0.15	0.02	0.02	1.3	1.8	1.3	0.65	0.03	0.02	0.06	0.14	0.24
CFSM	0.14	0.72	0.68	2.07	1.00	1.70	1.59	0.06	0.16	0.35	0.97	0.10
IN.	0.16	0.81	0.78	2.39	1.04	1.96	1.77	0.07	0.18	0.40	1.11	0.12

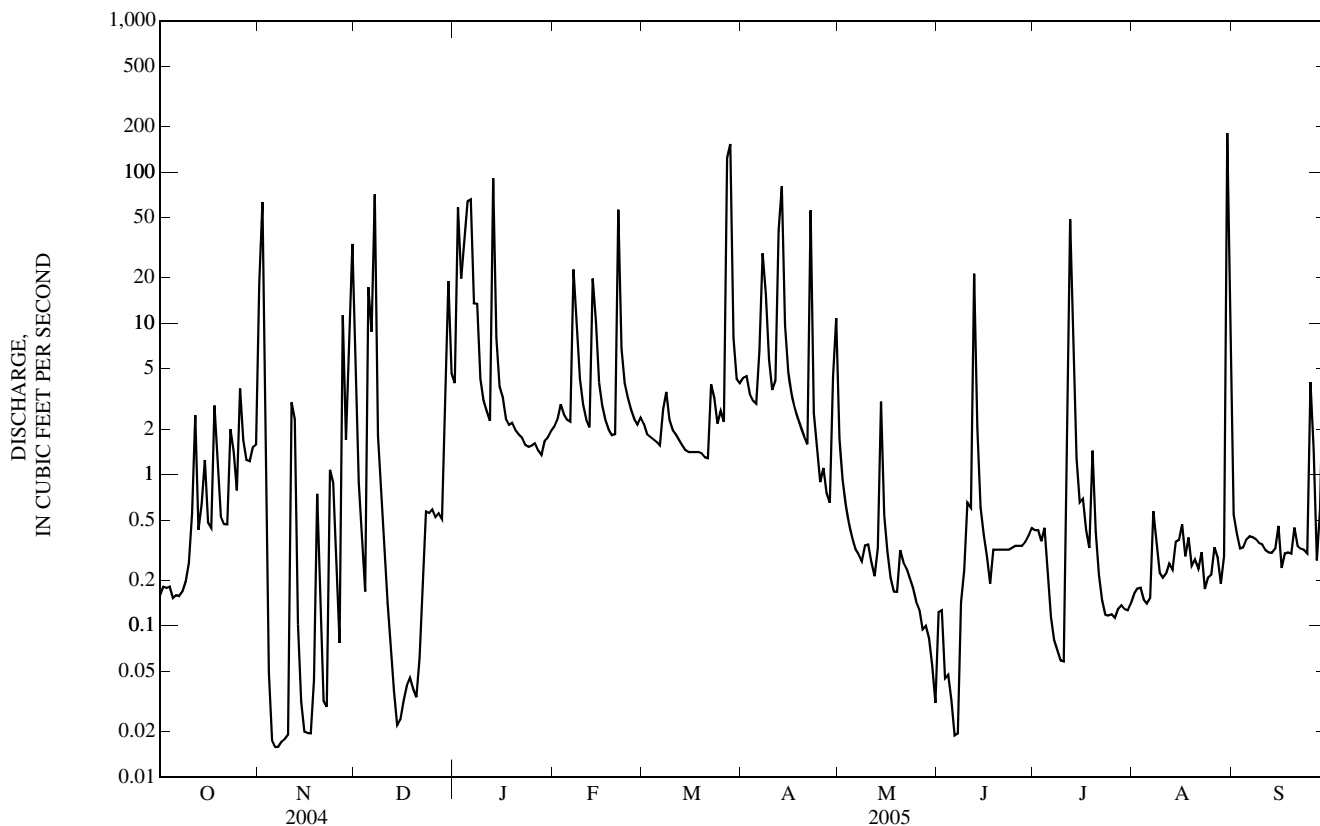
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)

MEAN	1.66	5.26	10.4	9.88	10.9	10.1	8.44	8.58	4.00	2.44	1.70	0.84
MAX	9.97	22.8	37.2	24.4	29.2	34.9	16.6	31.2	16.6	7.59	8.31	2.73
(WY)	(2002)	(1997)	(1991)	(1999)	(2003)	(1997)	(1994)	(2002)	(1998)	(1998)	(1998)	(2002)
MIN	0.21	0.21	0.50	0.89	0.60	3.26	2.40	0.41	0.17	0.09	0.12	0.15
(WY)	(1998)	(2000)	(1998)	(2001)	(1996)	(1995)	(2004)	(2005)	(1994)	(1993)	(1993)	(1998)

03611800 BAYOU CREEK NEAR HEATH, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1991 - 2005	
ANNUAL TOTAL	958.13		1,899.80		6.21	
ANNUAL MEAN	2.62		5.20		13.2	
HIGHEST ANNUAL MEAN					2.23	2002
LOWEST ANNUAL MEAN					2.23	2004
HIGHEST DAILY MEAN	109	May 30	180	Aug 30	710	Mar 1, 1997
LOWEST DAILY MEAN	0.02	Nov 5	0.02	Nov 5	0.02	Oct 13, 2002
ANNUAL SEVEN-DAY MINIMUM	0.02	Nov 4	0.02	Nov 4	0.02	Nov 4, 2004
MAXIMUM PEAK FLOW			761	Mar 27	1,870	Mar 1, 1997
MAXIMUM PEAK STAGE			5.26	Mar 27	9.90	Mar 1, 1997
ANNUAL RUNOFF (CFSM)	0.400		0.795		0.949	
ANNUAL RUNOFF (INCHES)	5.44		10.79		12.89	
10 PERCENT EXCEEDS	4.6		7.9		6.4	
50 PERCENT EXCEEDS	0.62		0.55		0.50	
90 PERCENT EXCEEDS	0.15		0.08		0.15	

e Estimated



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 with telemetry. Datum of gage is 330 ft above NGVD of 1929 (from topographic map).

REMARKS.--Records fair except for those estimated, which are poor.

COOPERATION.--Kentucky Cabinet for Health Services.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 2	0145	1,050	9.71	Mar 28	0515	1,040	9.67
Mar 27	2230	*1,200	*10.39				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	33	106	76	12	11	19	e14	7.8	8.1	9.3	12
2	6.4	302	26	273	14	10	18	e18	8.6	7.7	9.2	11
3	6.4	25	13	178	16	9.6	16	e16	7.7	7.5	9.5	10
4	6.3	16	9.8	210	13	9.3	15	e14	7.2	14	9.5	10
5	6.3	9.9	69	234	12	9.4	14	e14	6.8	10	9.5	9.8
6	6.3	9.7	164	314	11	9.3	19	e14	6.6	7.8	9.5	11
7	6.2	9.5	307	99	121	15	71	e12	6.6	8.5	15	11
8	6.5	9.3	81	e64	62	16	50	e12	18	9.2	11	9.3
9	6.9	9.4	58	48	28	10	20	e12	16	9.1	9.9	9.1
10	6.7	10	47	36	18	9.5	15	e11	20	9.2	9.8	9.1
11	17	50	39	31	15	9.3	17	e12	18	54	9.8	8.7
12	31	50	36	24	13	9.1	94	e11	89	179	9.9	8.6
13	8.1	10	39	269	89	9.2	230	e11	13	40	9.6	8.5
14	12	8.3	34	61	50	9.0	36	e65	8.8	15	10	8.1
15	12	8.8	23	33	22	8.9	e20	e12	8.7	13	11	14
16	7.1	8.9	22	e21	18	9.2	e18	e11	7.5	11	17	8.2
17	6.7	9.2	23	e18	15	9.2	e16	11	7.3	10	11	7.8
18	16	13	21	e16	13	8.8	e15	9.8	7.2	9.8	15	7.9
19	21	28	19	16	12	8.8	e14	9.3	6.9	13	11	8.0
20	8.3	12	18	17	12	8.8	e13	13	6.8	10	11	13
21	8.0	10	17	17	150	8.7	e31	9.7	6.8	9.6	10	8.1
22	6.8	14	99	16	36	25	179	9.1	6.8	9.5	13	7.7
23	18	33	e40	14	18	15	e20	9.7	6.8	9.5	12	7.5
24	7.8	28	e28	14	14	10	e18	9.6	6.8	9.6	17	7.6
25	6.9	14	e21	17	12	14	e15	9.5	7.0	9.5	12	34
26	12	9.8	e19	17	11	11	e17	8.9	7.5	9.8	14	15
27	7.8	113	e18	13	10	265	e14	7.9	7.5	9.8	12	8.3
28	6.6	41	e17	12	11	425	e14	7.4	7.5	9.6	11	11
29	6.3	44	208	15	---	50	e61	7.2	7.5	9.7	12	43
30	8.3	272	173	13	---	28	70	7.1	8.7	9.7	285	8.2
31	6.8	---	85	13	---	33	---	7.1	---	9.4	16	---
TOTAL	299.0	1,210.8	1,879.8	2,199	828	1,084.1	1,169	395.3	351.4	551.6	631.5	345.5
MEAN	9.65	40.4	60.6	70.9	29.6	35.0	39.0	12.8	11.7	17.8	20.4	11.5
MAX	31	302	307	314	150	425	230	65	89	179	285	43
MIN	6.2	8.3	9.8	12	10	8.7	13	7.1	6.6	7.5	9.2	7.5
CFSM	0.65	2.71	4.07	4.76	1.98	2.35	2.62	0.86	0.79	1.19	1.37	0.77
IN.	0.75	3.02	4.69	5.49	2.07	2.71	2.92	0.99	0.88	1.38	1.58	0.86

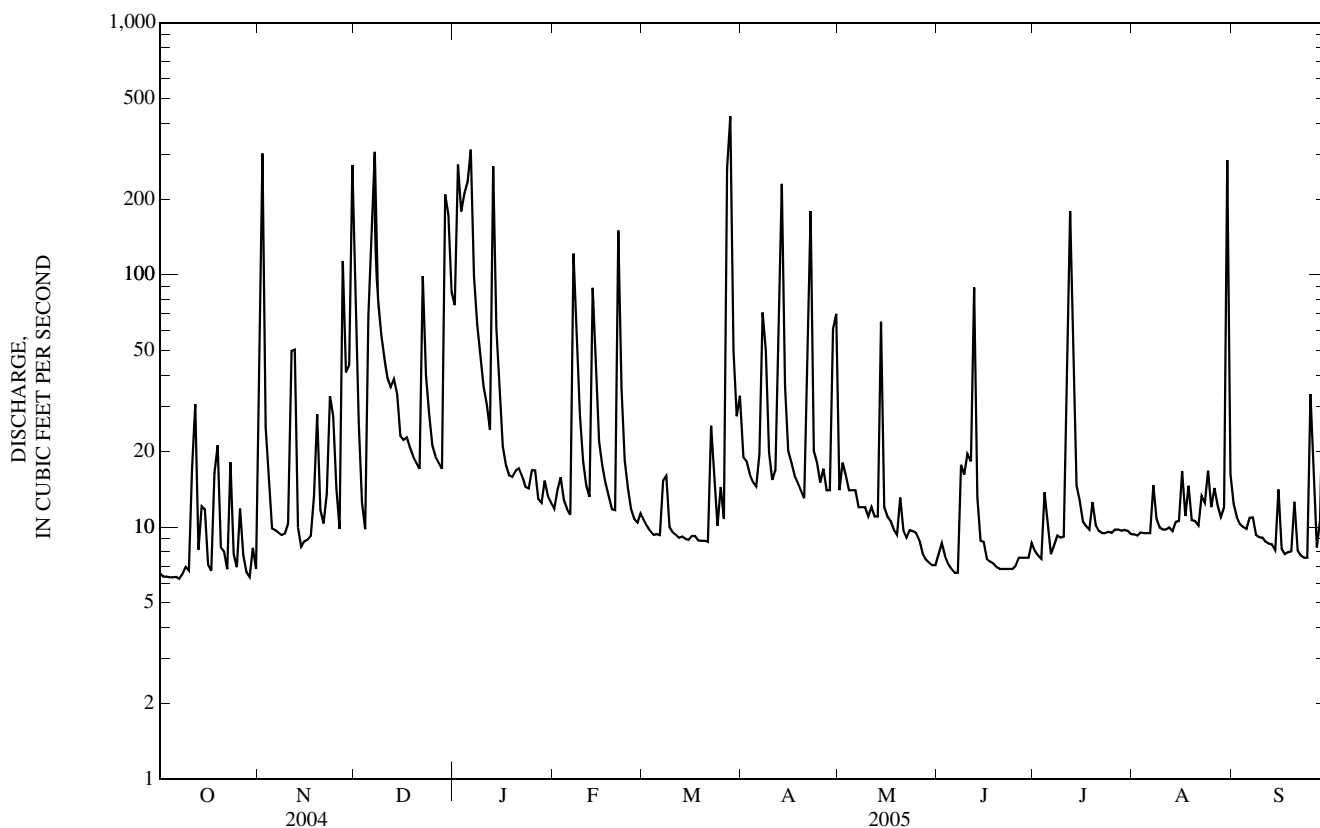
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)

	10.4	21.1	33.0	31.7	33.3	30.2	29.1	27.0	17.4	13.4	12.1	9.60
MEAN	10.4	21.1	33.0	31.7	33.3	30.2	29.1	27.0	17.4	13.4	12.1	9.60
MAX	29.0	56.7	85.9	70.9	79.4	77.5	50.7	69.6	32.4	27.4	21.4	16.4
(WY)	(2002)	(1997)	(2002)	(2005)	(2003)	(1997)	(2003)	(2002)	(1998)	(2001)	(1998)	(2002)
MIN	4.87	4.32	6.66	7.02	6.13	15.0	11.9	8.86	7.56	6.37	5.64	5.11
(WY)	(2001)	(2000)	(1996)	(2001)	(1996)	(1995)	(2004)	(2001)	(1991)	(1994)	(2004)	(1997)

03611850 BAYOU CREEK NEAR GRAHAMVILLE, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1991 - 2005	
ANNUAL TOTAL	8,072.5		10,945.0			
ANNUAL MEAN	22.1		30.0		22.5	
HIGHEST ANNUAL MEAN					36.8	2002
LOWEST ANNUAL MEAN					14.7	2001
HIGHEST DAILY MEAN	307	Dec 7	425	Mar 28	923	Mar 1, 1997
LOWEST DAILY MEAN	4.2	Aug 8	6.2	Oct 7	1.9	Oct 9, 1996
ANNUAL SEVEN-DAY MINIMUM	4.4	Aug 6	6.3	Oct 1	2.7	Oct 2, 1997
MAXIMUM PEAK FLOW			1,200	Mar 27	1,750	Mar 1, 1997
MAXIMUM PEAK STAGE			10.39	Mar 27	12.60	Mar 1, 1997
ANNUAL RUNOFF (CFSM)	1.48		2.01		1.51	
ANNUAL RUNOFF (INCHES)	20.15		27.33		20.49	
10 PERCENT EXCEEDS	52		61		31	
50 PERCENT EXCEEDS	6.8		12		9.0	
90 PERCENT EXCEEDS	4.8		7.5		5.1	

e Estimated



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 with telemetry. Datum of gage is 324.80 ft above NGVD of 1929 (levels by U.S. Department of Energy).

REMARKS.--Records fair except for those estimated, which are poor. Some regulation from Paducah Gaseous Diffusion Plant, 0.4 mi upstream.

COOPERATION.--Kentucky Cabinet for Health Services.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 27	2200	472	6.77	Mar 28	0500	*479	*6.82

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	9.3	14	11	1.3	1.7	2.7	4.3	1.1	1.0	1.2	1.1
2	1.9	50	3.9	64	1.9	1.4	2.6	2.2	1.9	0.92	1.2	0.95
3	1.4	2.7	2.1	29	3.2	1.3	1.9	2.2	1.0	0.79	1.2	0.85
4	1.2	1.3	1.4	44	1.4	1.3	1.6	2.9	0.84	2.2	1.2	0.85
5	1.1	1.0	7.7	55	1.4	1.1	1.4	2.4	0.82	2.8	1.1	0.82
6	1.0	1.00	20	90	1.2	1.2	2.7	1.2	0.85	1.1	1.1	0.80
7	0.83	0.98	63	15	25	2.8	12	1.2	0.93	1.1	1.2	0.77
8	0.79	1.1	7.7	18	14	3.9	12	1.2	1.6	1.2	1.2	0.74
9	0.99	1.3	3.6	6.9	6.0	1.9	4.0	2.2	4.6	1.1	1.1	0.73
10	1.0	1.1	2.3	4.2	3.2	1.6	2.2	1.7	1.5	1.0	1.1	0.74
11	2.6	6.2	1.6	3.1	2.2	1.4	2.7	1.1	3.4	10	1.1	0.68
12	6.3	6.2	1.3	2.8	1.8	1.4	35	1.1	20	32	1.1	0.68
13	1.5	1.4	2.3	78	18	1.3	105	1.6	e4.1	7.6	1.2	0.67
14	2.3	0.95	2.8	e11	13	1.2	10	5.1	0.87	1.9	1.3	0.75
15	3.9	0.80	2.8	e5.1	5.4	1.2	4.3	1.4	0.81	1.4	1.9	3.1
16	1.6	0.73	2.1	e3.8	3.0	1.2	2.5	1.2	0.76	1.3	3.7	0.74
17	1.6	0.91	1.0	e2.5	2.0	1.2	1.9	1.1	0.68	1.3	1.2	0.58
18	3.9	1.4	1.0	e2.0	1.6	1.1	1.7	1.1	0.67	1.4	2.6	0.59
19	5.2	3.3	1.0	e2.2	1.4	1.1	1.6	1.0	0.66	2.3	1.1	0.53
20	1.8	1.3	1.1	e1.9	1.6	1.1	1.5	2.7	0.67	1.4	1.2	1.3
21	1.4	1.3	1.2	e2.0	32	1.0	1.4	1.1	0.68	1.2	1.3	0.54
22	1.6	1.3	11	e1.7	9.5	5.0	41	1.0	0.65	1.3	1.3	0.46
23	5.2	2.8	e2.7	e1.7	4.1	3.9	5.5	0.99	0.67	1.2	1.1	0.47
24	1.9	3.2	e1.5	e1.5	2.8	2.1	2.8	0.92	0.69	1.2	1.1	0.45
25	1.5	2.0	e1.1	e1.5	2.1	3.8	1.9	0.93	0.66	1.2	1.1	5.6
26	1.8	1.3	e1.0	e1.6	1.6	2.6	2.7	1.2	0.66	1.3	2.0	2.0
27	e1.6	9.7	e1.1	e1.6	1.4	93	1.9	1.1	0.66	1.3	1.7	0.45
28	1.5	6.1	e1.9	1.2	1.9	169	2.1	1.0	0.71	1.2	1.1	0.35
29	1.7	4.9	45	1.9	---	11	9.1	1.0	0.80	1.2	1.5	7.3
30	2.9	37	29	1.5	---	5.1	22	0.98	1.0	1.2	49	0.35
31	1.7	---	12	1.4	---	3.8	---	0.92	---	1.2	2.4	---
TOTAL	65.51	162.57	250.2	467.1	164.0	330.7	299.7	50.04	54.94	87.31	91.6	35.94
MEAN	2.11	5.42	8.07	15.1	5.86	10.7	9.99	1.61	1.83	2.82	2.95	1.20
MAX	6.3	50	63	90	32	169	105	5.1	20	32	49	7.3
MIN	0.79	0.73	1.0	1.2	1.2	1.0	1.4	0.92	0.65	0.79	1.1	0.35
CFSM	0.37	0.94	1.40	2.61	1.01	1.85	1.73	0.28	0.32	0.49	0.51	0.21
IN.	0.42	1.05	1.61	3.01	1.06	2.13	1.93	0.32	0.35	0.56	0.59	0.23

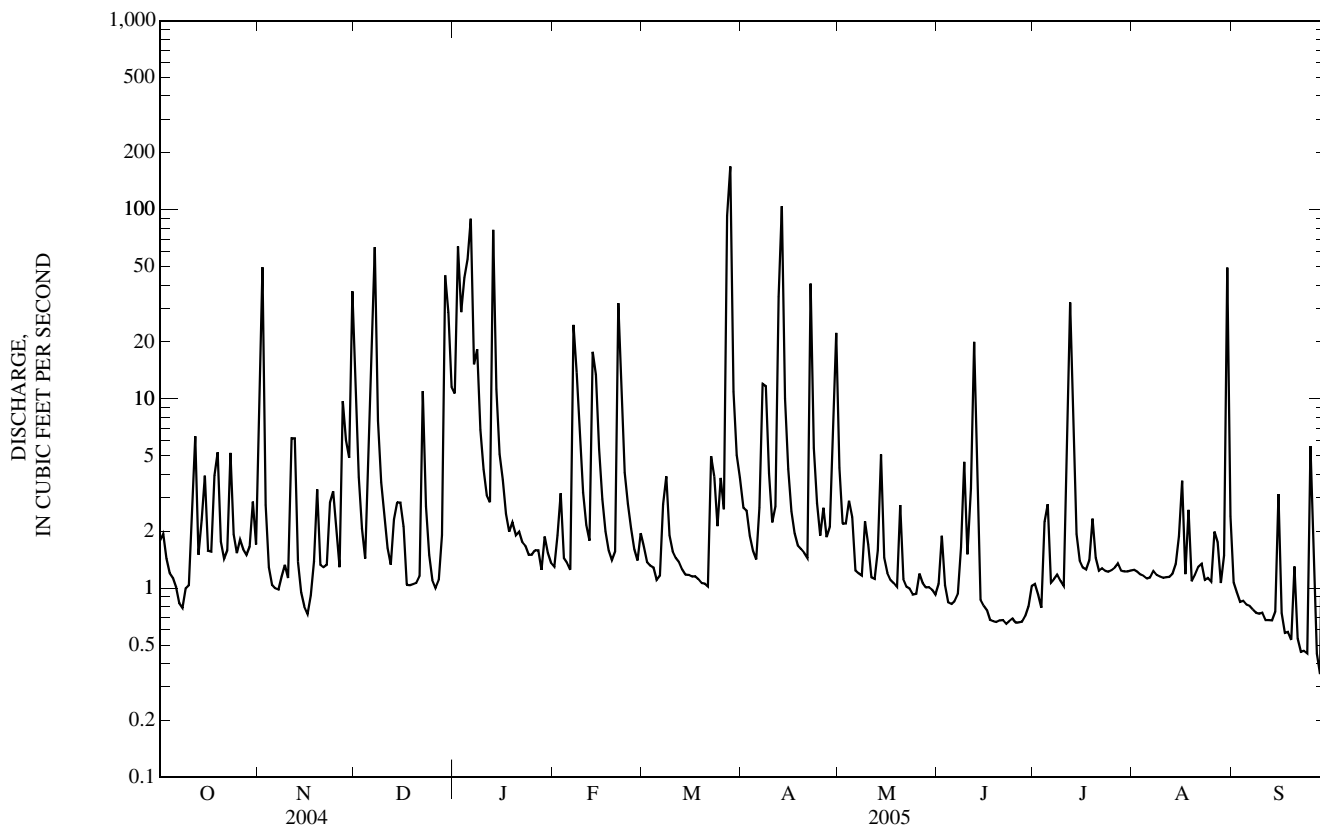
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)

MEAN	2.51	5.84	9.76	9.95	9.87	10.6	9.13	9.06	3.93	2.80	2.02	1.58
MAX	7.45	18.3	33.5	20.4	20.2	32.5	19.2	31.3	12.4	8.74	8.11	3.13
(WY)	(2002)	(1997)	(1991)	(1999)	(2003)	(1997)	(1994)	(2002)	(1998)	(2001)	(1998)	(2003)
MIN	1.16	0.71	1.26	1.17	1.02	3.79	2.25	1.48	0.91	0.82	0.72	0.78
(WY)	(2001)	(2000)	(1996)	(2001)	(1996)	(1995)	(2001)	(1994)	(2002)	(1991)	(1996)	(1998)

03611900 LITTLE BAYOU CREEK NEAR GRAHAMVILLE, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1991 - 2005	
ANNUAL TOTAL	1,587.32		2,059.61			
ANNUAL MEAN	4.34		5.64		6.45	
HIGHEST ANNUAL MEAN					12.4	2002
LOWEST ANNUAL MEAN					3.75	2001
HIGHEST DAILY MEAN	63	Dec 7	169	Mar 28	506	Mar 1, 1997
LOWEST DAILY MEAN	0.46	May 25	0.35	Sep 28	0.02	May 25, 1995
ANNUAL SEVEN-DAY MINIMUM	0.52	May 19	0.62	Sep 18	0.35	Aug 2, 2001
MAXIMUM PEAK FLOW			479	Mar 28	1,300	Mar 1, 1997
MAXIMUM PEAK STAGE			6.82	Mar 28	11.26	Mar 1, 1997
ANNUAL RUNOFF (CFSM)	0.750		0.976		1.12	
ANNUAL RUNOFF (INCHES)	10.22		13.26		15.16	
10 PERCENT EXCEEDS	9.4		10		9.5	
50 PERCENT EXCEEDS	1.6		1.5		1.3	
90 PERCENT EXCEEDS	0.77		0.80		0.70	

e Estimated



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 auxilliary gaging station, 0.5 mi upstream from Gar Creek, 3.0 mi southwest of Grand Chain, IL, 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 water 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 gaging station at Metropolis, IL (station 03611500). Flow regulated by many dams and reservoirs.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--Maximum daily recorded, 693 microsiemens, Nov. 25, 1968; minimum daily recorded, 170 microsiemens, Feb. 9, 1957

WATER TEMPERATURES.--Maximum daily recorded, 30.0°C, July 15, 1964, July 17-21, 25, 1977; minimum daily recorded, 0.0°C, on several days during most winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)
NOV												
16...	1330	Environmental	374,000	.104	.078	772	9.7	7.5	306	13.5	130	34.9
DEC												
14...	1420	Environmental	792,000	.090	.068	783	12.4	7.6	233	9.0	100	29.2
14...	1428	Field Blank	--	<.004	<.004	--	--	--	--	--	--	--
JAN												
19...	1310	Environmental	957,000	.102	.077	773	11.5	7.6	262	4.5	83	23.8
25...	1130	Environmental	958,000	.098	.074	767	13.0	7.4	237	4.5	110	30.9
MAR												
23...	1400	Environmental	217,000	.051	.037	767	12.7	7.9	338	8.5	140	39.7
23...	1410	Replicate	--	.052	.039	--	--	--	--	--	140	38.9
APR												
06...	1400	Environmental	570,000	.072	.056	765	11.0	7.4	338	12.0	120	34.6
06...	1408	Field Blank	--	--	--	--	--	--	--	--	--	--
12...	1340	Environmental	649,000	.067	.050	759	10.6	7.5	263	14.0	110	30.0
19...	1350	Environmental	239,000	.068	.050	771	10.6	7.6	301	17.0	130	35.3
19...	1358	Field Blank	--	--	--	--	--	--	--	--	--	--
MAY												
12...	1450	Environmental	175,000	.107	.079	771	10.6	7.7	291	19.0	130	35.3
12...	1458	Field Blank	--	--	--	--	--	--	--	--	--	E.02
25...	1300	Environmental	274,000	.070	.053	769	13.1	7.5	312	21.5	140	35.6
JUN												
08...	1230	Environmental	110,000	.063	.047	767	9.1	8.0	300	25.0	120	34.6
08...	1238	Field Blank	--	--	--	--	--	--	--	--	--	--
22...	1250	Environmental	125,000	.081	.060	773	9.0	7.8	343	27.0	140	37.9
22...	1300	Replicate	--	.080	.058	--	--	--	--	--	140	37.3
AUG												
12...	1300	Environmental	67,900	.060	.044	770	8.1	7.7	258	31.0	96	25.5
SEP												
08...	1300	Environmental	122,000	.070	.052	784	8.1	7.4	272	27.5	--	--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)
NOV 16...	9.41	3.43	12.4	78	95	14.2	.1	6.57	46.3	190	.24	.64	E.03
DEC 14...	6.72	2.45	6.50	70	85	7.93	.1	6.67	27.6	135	.21	.48	<.04
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 19...	5.70	2.26	6.04	69	84	10.7	.1	5.13	29.6	151	.27	.60	E.02
25...	7.24	2.59	7.21	71	87	9.87	.1	6.88	29.3	145	.26	.48	<.04
MAR 23...	10.9	1.87	14.5	83	101	20.1	.1	4.59	42.9	205	.17	.42	<.04
23...	10.7	1.88	14.3	83	101	19.5	.1	4.59	41.7	200	.16	.42	<.04
APR 06...	9.05	2.03	13.8	72	87	18.1	.1	4.76	47.1	185	.23	.61	<.04
06...	--	--	--	--	--	--	--	--	--	--	--	--	E.005
12...	7.64	1.79	9.45	64	79	11.6	.1	4.88	34.4	149	.18	.52	<.04
19...	9.18	2.03	10.9	77	94	13.8	.1	4.36	37.8	177	.24	.45	<.04
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 12...	9.24	1.97	9.87	89	109	11.7	.1	4.33	39.0	182	.22	.46	<.04
12...	.019	--	E.11	--	--	--	--	.06	--	--	--	--	--
25...	11.6	2.45	13.4	83	101	16.5	.1	3.81	47.0	220	.30	.56	<.04
JUN 08...	8.85	1.97	11.4	86	97	14.7	.1	1.41	35.7	166	.23	.43	<.04
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	11.8	2.84	13.0	92	112	16.5	.2	2.86	43.5	207	.27	.52	<.04
22...	11.8	2.87	12.8	87	106	16.4	.2	2.83	42.7	198	.28	.51	<.04
AUG 12...	7.90	2.25	13.0	67	80	14.7	.1	2.50	29.7	144	.39	.48	<.04
SEP 08...	--	--	--	60	73	--	--	--	--	--	.23	.37	<.04

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd total, mg/L (00688)	Organic carbon, suspnd total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Pheophytin a, phytoplankton, ug/L (62360)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Aluminum, water, fltrd, ug/L (01106)
NOV 16...	.94	E.005	.24	.063	.078	.24	2.0	<.1	2.0	3.5	E5.5	E3.9	5
DEC 14...	.98	.008	.29	.044	.062	.22	3.0	<.1	2.9	2.7	--	--	--
14...	--	--	<.02	--	--	--	<.1	<.1	<.1	.3	--	--	--
JAN 19...	1.29	.012	.25	.044	.053	.23	2.9	<.1	2.9	3.3	--	--	--
25...	1.19	.008	.38	.046	.057	.20	3.9	<.1	3.9	2.4	--	--	--
MAR 23...	.93	E.007	.25	.007	.013	.09	1.7	<.1	1.7	1.7	4.2	14.3	--
23...	.91	E.007	.21	.006	.013	.09	1.6	.2	1.4	1.7	3.1	9.0	--
APR 06...	1.00	.009	.34	.020	.026	.20	3.4	<.1	3.4	2.1	3.9	5.4	--
06...	E.008	<.002	--	<.006	--	--	--	--	--	--	--	--	--
12...	.87	.011	.28	.017	.044	.16	3.0	<.1	2.9	2.3	2.3	3.9	--
19...	.94	.013	.24	.011	.024	E.11	1.7	<.1	1.7	2.6	9.5	11.9	--
19...	--	--	--	--	--	--	--	--	--	--	<.3	<.3	--
MAY 12...	1.07	.010	.23	.013	.023	.09	1.7	<.1	1.6	2.4	15.1	1.4	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	<2
25...	1.32	.016	.30	.013	.026	.14	2.2	<.1	2.2	2.7	13.1	15.8	6
JUN 08...	.59	.008	.19	<.006	.010	.05	1.2	<.1	1.2	2.4	11.7	8.0	--
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	1.70	.061	.25	.018	.030	.07	1.4	<.1	1.4	2.9	13.3	12.1	6
22...	1.66	.059	.23	.017	.030	.08	1.4	<.1	1.4	3.0	11.7	10.9	6
AUG 12...	.18	.017	.27	<.006	.011	.06	1.6	<.1	1.6	3.0	--	--	7
SEP 08...	.34	.010	.21	.022	.036	.08	1.3	<.1	1.3	2.4	10.2	15.4	--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Anti- mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryll- ium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chrom- ium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)	Mangan- ese, water, fltrd, ug/L (01056)
NOV 16...	<.20	.7	33	<.06	41	<.04	<.8	.147	1.7	10	E.06	3.2	.8
DEC 14...	--	.9	--	--	41	--	--	--	--	14	--	5.1	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 19...	--	.5	--	--	15	--	--	--	--	23	--	1.2	--
25...	--	.5	--	--	27	--	--	--	--	16	--	2.3	--
MAR 23...	--	.4	--	--	39	--	--	--	--	8	--	3.6	--
23...	--	.4	--	--	38	--	--	--	--	8	--	3.9	--
APR 06...	--	.5	--	--	30	--	--	--	--	7	--	3.8	--
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	.4	--	--	24	--	--	--	--	9	--	2.2	--
19...	--	.5	--	--	25	--	--	--	--	E6	--	2.5	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 12...	--	.5	--	--	33	--	--	--	--	13	--	2.7	--
12...	<.20	<.2	M	<.06	<.8	<.04	<.8	.030	<.4	<.6	<.08	<.6	<.2
25...	E.12	.6	31	<.06	39	E.02	<.8	.133	1.4	E4	<.08	3.5	.3
JUN 08...	--	.6	--	--	38	--	--	--	--	E5	--	3.1	--
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	E.15	.9	37	<.06	53	E.02	<.8	.138	1.7	<.6	<.08	2.9	1.1
22...	E.15	.9	37	<.06	52	E.02	<.8	.139	1.6	<.6	<.08	2.9	.9
AUG 12...	.21	1.2	27	<.06	55	<.04	<.8	.085	1.4	<.6	<.08	2.5	.3
SEP 08...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Molyb- denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selen- ium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Stront- ium, water, fltrd, ug/L (01080)	Vanad- ium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	2,6-Di- ethyl- aniline water fltrd 0.7u GF (82660)	CIAT, water, fltrd, ug/L (04040)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor, water, fltrd, ug/L (46342)	alpha- HCH, water, fltrd, ug/L (34253)	Atra- zine, water, fltrd, ug/L (39632)
NOV 16...	1.6	1.01	E.2	<.2	165	.8	.8	<.006	E.014	<.010	<.005	<.005	.077
DEC 14...	--	--	.5	--	112	.7	--	<.006	E.011	<.006	<.005	<.005	.035
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 19...	--	--	E.3	--	92.6	.4	--	<.006	E.014	.008	<.005	<.005	.039
25...	--	--	E.2	--	117	1.1	--	<.006	E.012	.020	<.005	<.005	.046
MAR 23...	--	--	E.4	--	175	.3	--	<.006	E.006	.031	<.005	<.005	.038
23...	--	--	E.4	--	177	.4	--	<.006	E.005	.035	<.005	<.005	.040
APR 06...	--	--	.5	--	195	.3	--	<.006	E.008	<.006	<.005	<.005	.168
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	E.3	--	151	.4	--	<.006	E.012	.007	<.005	<.005	.134
19...	--	--	E.2	--	156	.7	--	<.006	E.020	.025	<.005	<.005	.688
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 12...	--	--	E.3	--	170	.7	--	<.006	E.045	.127	<.005	<.005	1.40
12...	<.4	E.03	<.4	<.2	<.40	E.1	.7	--	--	--	--	--	--
25...	1.6	2.35	.5	<.2	183	.6	.7	<.006	E.196	.517	E.014	<.005	3.32
JUN 08...	--	--	.4	--	156	.9	--	<.006	E.073	.067	<.005	<.005	1.08
08...	--	--	--	--	--	--	--	<.006	<.006	<.006	<.005	<.005	<.007
22...	2.2	2.68	.5	<.2	160	1.0	1.4	<.006	E.126	.169	<.005	<.005	1.54
22...	2.1	2.57	.5	<.2	158	1.0	.9	<.006	E.154	.170	E.004	<.005	1.56
AUG 12...	2.4	1.64	E.4	<.2	132	1.0	.6	<.006	E.034	.012	<.005	<.005	.273
SEP 08...	--	--	--	--	--	--	--	<.006	E.007	<.006	<.005	<.005	.086

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Azin-phos-methyl, water, fltrd 0.7u GF ug/L (82686)	Ben-flur-alin, water, fltrd 0.7u GF ug/L (82673)	Butyl-ate, water, fltrd, ug/L (04028)	Car-baryl, water, fltrd 0.7u GF ug/L (82680)	Carbo-furan, water, fltrd 0.7u GF ug/L (82674)	Chlor-pyrifos water, fltrd, ug/L (38933)	cis-Per-methrin water fltrd 0.7u GF ug/L (82687)	Cyana-zine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF ug/L (82682)	Diazi-non, water, fltrd, ug/L (39572)	Diel-drin, water, fltrd, ug/L (39381)	Disul-foton, water, fltrd 0.7u GF ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)
NOV 16...	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004
DEC 14...	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 19...	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004
25...	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.005
MAR 23...	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004
23...	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004
APR 06...	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004
19...	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 12...	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	<.050	<.010	<.004	<.041	<.020	<.010	<.006	<.018	<.003	<.005	<.009	<.02	<.004
JUN 08...	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004
08...	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004
22...	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004
22...	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004
AUG 12...	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004
SEP 08...	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Ethal-flur-alin, water, fltrd 0.7u GF ug/L (82663)	Etho-prop, water, fltrd 0.7u GF ug/L (82672)	Fonofos water, fltrd, ug/L (04095)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl para-thion, water, fltrd 0.7u GF ug/L (82667)	Metola-chlor, water, fltrd, ug/L (39415)	Metri-buzin, water, fltrd, ug/L (82630)	Moli-nate, water, fltrd 0.7u GF ug/L (82671)	Naprop-amide, water, fltrd 0.7u GF ug/L (82684)	p,p'-DDE, water, fltrd, ug/L (34653)	Para-thion, water, fltrd, ug/L (39542)
NOV 16...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.016	<.006	<.003	<.007	<.003	<.010
DEC 14...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.011	<.006	<.003	<.007	<.003	<.010
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 19...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.027	E.004	<.003	<.007	<.003	<.010
25...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.029	<.006	<.003	<.007	<.003	<.010
MAR 23...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.006	<.006	<.003	<.007	<.003	<.010
23...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.008	<.006	<.003	<.007	<.003	<.010
APR 06...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.012	<.006	<.003	<.007	<.003	<.010
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.017	<.006	<.003	<.007	<.003	<.010
19...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.065	<.006	<.003	<.007	<.003	<.010
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 12...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.203	<.006	<.003	<.007	<.003	<.010
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.963	.007	<.003	<.007	<.003	<.010
JUN 08...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.226	<.006	<.003	<.007	<.003	<.010
08...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010
22...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.458	<.006	<.003	<.007	<.003	<.010
22...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.461	<.006	<.003	<.007	<.003	<.010
AUG 12...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.055	<.006	<.003	<.007	<.003	<.010
SEP 08...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.021	<.006	<.003	<.007	<.003	<.010

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Peb- ulate, water, fltrd 0.7u GF ug/L (82669)	Pendi- meth- alin, water, fltrd 0.7u GF ug/L (82683)	Phorate water fltrd 0.7u GF ug/L (82664)	Prome- ton, water, fltrd, ug/L (04037)	Propy- zamide, water, fltrd 0.7u GF ug/L (82676)	Propa- chlor, water, fltrd, ug/L (04024)	Pro- panil, water, fltrd 0.7u GF ug/L (82679)	Propar- gite, water, fltrd 0.7u GF ug/L (82685)	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF ug/L (82670)	Terba- cil, water, fltrd 0.7u GF ug/L (82665)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Thio- bencarb water fltrd 0.7u GF ug/L (82681)
NOV 16...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.225	<.02	<.034	<.02	<.010
DEC 14...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.136	<.02	<.034	<.02	<.010
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 19...	<.004	<.022	<.011	M	<.004	<.025	<.011	<.02	.209	<.02	<.034	<.02	<.010
25...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.196	<.02	<.034	<.02	<.010
MAR 23...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.020	<.02	<.034	<.02	<.010
23...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.022	<.02	<.034	<.02	<.010
APR 06...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.075	<.02	<.034	<.02	<.010
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.066	<.02	<.034	<.02	<.010
19...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.265	<.02	<.034	<.02	<.010
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 12...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.154	<.02	<.034	<.02	<.010
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	<.004	<.022	<.011	.01	<.004	<.025	<.020	<.02	.422	<.02	<.034	<.02	<.010
JUN 08...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.146	<.02	<.034	<.02	<.010
08...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010
22...	<.004	<.022	<.011	.02	<.004	<.025	<.011	<.02	.166	<.02	<.034	<.02	<.010
22...	<.004	<.022	<.011	.02	<.004	<.025	<.011	<.02	.178	<.02	<.034	<.02	<.010
AUG 12...	<.004	<.022	<.011	.02	<.004	<.025	<.011	<.02	.025	<.02	<.034	<.02	<.010
SEP 08...	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	.011	<.02	<.034	<.02	<.010

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Tri- allate, water, fltrd 0.7u GF ug/L (82678)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concentra- tion mg/L (80154)
NOV					
16...	<.006	<.009	.34	93	133
DEC					
14...	<.006	<.009	--	85	116
14...	--	--	--	--	--
JAN					
19...	<.006	<.009	--	92	336
25...	<.006	<.009	--	74	103
MAR					
23...	<.006	<.009	--	98	41
23...	<.006	<.009	--	98	41
APR					
06...	<.006	<.009	--	88	147
06...	--	--	--	--	--
12...	<.006	<.009	--	88	102
19...	<.006	<.009	--	99	47
19...	--	--	--	--	--
MAY					
12...	<.006	<.009	--	97	39
12...	--	--	<.04	--	--
25...	<.006	<.009	.33	98	84
JUN					
08...	<.006	<.009	--	98	12
08...	<.006	<.009	--	--	--
22...	<.006	<.009	.38	--	--
22...	<.006	<.009	.37	--	--
AUG					
12...	<.006	<.009	.24	--	--
SEP					
08...	<.006	<.009	--	--	--

E--Laboratory estimated value.

M--Presence of material verified but not quantified.

<--Numeric result is less than the value shown.

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 de 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 with telemetry. Datum of gage is 307.71 ft above NGVD of 1929. Prior to Aug. 2, 1951, nonrecording gage at same site and datum.

REMARKS.-- Records fair except for those estimated, which are poor. Minimum flow affected by backwater from the Mississippi River.

COOPERATION.--Kentucky Natural Resources and Environmental Protection Cabinet.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 3	0945	*1,820	*15.12				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	740	508	287	64	e58	96	126	19	22	20	60
2	21	1,260	107	619	69	e55	92	85	27	21	23	41
3	21	1,500	70	397	80	e56	79	73	23	21	21	35
4	20	277	55	618	68	e54	75	68	19	20	19	31
5	19	67	89	364	64	e51	73	66	19	24	19	27
6	19	48	452	1,050	63	e51	121	66	18	19	20	26
7	20	43	995	501	155	271	591	59	17	19	58	26
8	20	38	350	590	120	272	249	58	32	18	45	28
9	20	36	101	179	81	e78	113	61	86	18	e23	30
10	21	36	74	127	70	e66	86	60	33	19	e22	32
11	38	51	64	113	e63	e60	111	57	111	38	e21	32
12	110	59	56	102	e60	e57	257	55	462	63	e22	31
13	28	41	49	853	337	e55	121	54	216	70	e20	31
14	25	38	44	398	169	e54	88	398	52	42	e21	29
15	25	38	43	128	100	e53	74	78	40	170	e20	41
16	22	37	43	99	e86	54	65	40	36	47	20	28
17	21	40	42	83	e75	54	60	34	34	77	20	22
18	26	41	42	81	e72	55	57	30	33	36	33	22
19	313	74	40	83	e62	54	53	27	30	32	27	23
20	33	49	38	80	e64	52	51	28	30	29	20	23
21	26	44	47	77	e85	51	54	23	28	28	19	24
22	25	42	837	73	e71	154	556	22	26	25	30	23
23	26	69	217	66	e69	555	111	22	26	23	24	21
24	26	189	130	67	e66	107	74	21	25	22	20	20
25	25	69	193	68	e68	82	65	20	25	21	20	181
26	26	52	e66	69	e62	73	68	19	28	21	29	186
27	167	206	e55	63	e61	794	62	19	31	21	64	36
28	57	155	67	61	e62	1,510	69	19	25	21	29	27
29	37	120	427	78	---	926	388	18	24	20	51	32
30	33	760	782	76	---	144	578	18	23	20	927	24
31	31	---	315	67	---	124	---	18	---	20	374	---
TOTAL	1,321	6,219	6,398	7,517	2,466	6,080	4,537	1,742	1,598	1,047	2,081	1,192
MEAN	42.6	207	206	242	88.1	196	151	56.2	53.3	33.8	67.1	39.7
MAX	313	1,500	995	1,050	337	1,510	591	398	462	170	927	186
MIN	19	36	38	61	60	51	51	18	17	18	19	20
CFSM	0.62	3.02	3.00	3.53	1.28	2.85	2.20	0.82	0.78	0.49	0.98	0.58
IN.	0.72	3.37	3.46	4.07	1.34	3.29	2.46	0.94	0.87	0.57	1.13	0.65

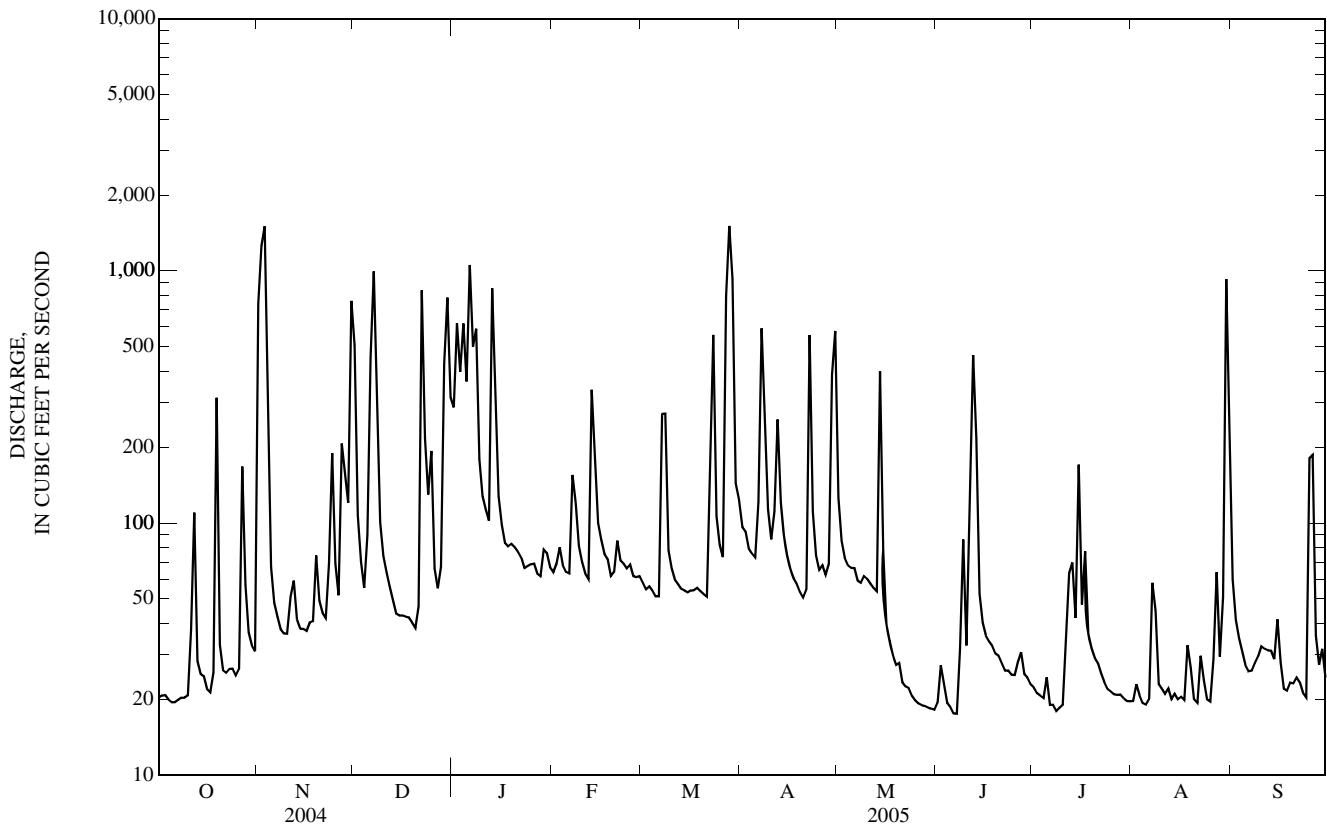
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	33.9	83.8	132	150	184	204	135	108	76.4	56.1	39.8	35.0
MAX	165	520	557	586	672	1,138	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)

07024000 BAYOU DE CHIEN NEAR CLINTON, KY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	32,871		42,198		103	
ANNUAL MEAN	89.8		116		18.7	
HIGHEST ANNUAL MEAN					268 1976	
LOWEST ANNUAL MEAN					18.7 1941	
HIGHEST DAILY MEAN	1,500	Nov 3	1,510	Mar 28	7,150	Jan 2, 1966
LOWEST DAILY MEAN	17	Jan 15	17	Jun 7	4.0	May 29, 1943
ANNUAL SEVEN-DAY MINIMUM	19	Jan 11	19	May 26	4.7	Jun 20, 1942
MAXIMUM PEAK FLOW			1,820	Nov 3	9,460	Jan 2, 1966
MAXIMUM PEAK STAGE			15.12	Nov 3	16.79	May 17, 2003
ANNUAL RUNOFF (CFSM)	1.31		1.68		1.50	
ANNUAL RUNOFF (INCHES)	17.80		22.85		20.34	
10 PERCENT EXCEEDS	178		281		187	
50 PERCENT EXCEEDS	30		54		25	
90 PERCENT EXCEEDS	21		20		11	

e Estimated



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 2005.

Station number	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft ³ /s)
<u>BEARGRASS CREEK BASIN</u>							
03293200	Middle Fork Beargrass Creek at Beals Branch Road at Louisville, Ky.	Lat 38°14'32", long 85°41'57", Jefferson County, Hydrologic Unit 05140101, at bridge on Beals Branch Road at Louisville, Ky., and at mile 1.5	22.7	†2005	05-20-05	9.85	2,230
<u>SALT RIVER BASIN</u>							
03297980	Long Run near Fisherville, Ky.	Lat 38°13'10", long 85°26'56", Jefferson County, Hydrologic Unit 05140101, at bridge on State Highway 1531 near Fisherville, Ky., 0.7 mi below South Long Run and at mile 2.4.	22.5	†2005	05-20-05	11.16	6,400
03298100	Pope Lick at Pope Lick Road near Middletown, Ky.	Lat 38°13'09", long 85°31'07", Jefferson County, Hydrologic Unit 05140102, at culvert on Pope Lick Road near Middletown, Ky., and at mile 3.2.	2.9	†2005	01-13-05	8.07	378

Annual maximum discharge at crest-stage partial-record stations during water year 2005.--*Continued*

Station number	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft ³ /s)
03301880	Southern Ditch at Minors Lane near Okolona, Ky.	Lat 38°08'04", long 85°42'34", Jefferson County, Hydrologic Unit 05140102, at bridge on Minors Lane nr Okolona, Ky., 0.2 mi below Mud Creek, and at mile 4.2.	12.8	†2004-05	05-20-05	6.47	2,540
03301950	Spring Ditch at Private Drive near Okolona, Ky.	Lat 38°09'27", long 85°40'57", Jefferson County, Hydrologic Unit 05140102, at culvert on Private Drive nr Okolona, Ky., and at mile 4.2.	1.6	†2004-05	05-20-05	7.44	507

Discharge measurements made at miscellaneous sites during water year 2005.

Station no.	Station name	Location	Period of record	Date	Discharge (ft ³ /s)
<u>GREEN RIVER BASIN</u>					
03316000	Mud River near Lewisburg, Ky.	Lat 37°00'15", Long 86°54'26", Logan County, Hydrologic Unit 05110003, at upstream side of bridge on State Highway 106, 2.5 mi northeast of Lewisburg, 7.5 mi downstream from Motts Lick Creek, and 14.0 mi upstream from Wolf Lick Creek.	2001-05	10-05-04	10.7
				10-05-04	11.0
				08-03-05	6.95
<u>ROUGH RIVER BASIN</u>					
03319000	Rough River near Dundee, Ky.	Lat 37°32'51", Long 86°43'18", Ohio County, Hydrologic Unit 05110004, on right bank, 150 ft downstream from bridge on State Highway 919, 1.5 mi downstream from Caney Creek, 3 mi southeast of Dundee, and at mi 62.5.	1939-92, 2002-05	10-06-04	112
				12-01-04	3,610
				08-16-05	45.7

WATER-QUALITY RECORDS

LOCATION.--Lat 37°47'47", long 86°16'25", Breckinridge County, Hydrologic Unit 05140104.

DRAINAGE AREA.--36 mi².

PERIOD OF RECORD.--April 2004 to current water year.

COOPERATION.--Kentucky Department of Agriculture.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Turbidity, IR LED light, det ang 90 deg, FNU (63680)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfltrd 25 degC (00095)	Temperature, water, deg C (00010)	Alkalinity, wat fltr inc tit field, mg/L as CaCO ₃ (39086)	Bicarbonate, wat fltr incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)
OCT 25...	1040	Environmental	--	3.7	758	--	7.3	702	15.0	210	255	6.94
NOV 22...	1100	Environmental	--	11	744	10.1	7.4	379	12.0	136	165	5.24
MAR 16...	1155	Environmental	29	2.4	753	12.3	8.1	402	9.0	138	169	4.38
MAR 28...	1800	Environmental	1,000	150	728	10.6	7.4	173	10.0	67	81	2.05
APR 12...	1240	Environmental	35	1.8	743	13.8	8.1	340	13.0	144	176	4.00
APR 29...	1120	Environmental	17	1.9	740	9.5	7.4	461	11.5	157	192	4.31
MAY 17...	1020	Environmental	15	--	746	8.8	7.3	434	12.5	137	167	4.05
MAY 20...	1300	Environmental	428	--	738	9.8	7.0	249	13.0	85	104	3.96
JUN 14...	0950	Environmental	8.7	--	747	8.3	7.7	565	19.5	157	192	5.42
JUL 13...	1100	Environmental	14	2.4	743	8.4	7.7	480	15.5	142	172	5.51
AUG 18...	0950	Environmental	3.9	--	748	6.8	7.6	664	22.0	129	158	6.88
AUG 30...	1100	Environmental	1,250	420	733	8.0	7.6	187	17.5	44	63	1.56
SEP 15...	0945	Environmental	6.1	2.6	750	7.6	7.8	534	19.5	148	180	5.74

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	2,6-Diethyl-aniline water fltrd 0.7u GF (82660)	CIAT, water, fltrd, ug/L (04040)	Aceto-chlor, water, fltrd, ug/L (49260)	Ala-chlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)	Atra-zine, water, fltrd, ug/L (39632)	Azin-phos-methyl, water, fltrd 0.7u GF (82686)	Ben-flur-alin, water, fltrd 0.7u GF (82673)	Butyl-ate, water, fltrd, ug/L (04028)
OCT 25...	<0.04	0.32	<0.006	0.02	<0.006	E0.015	<0.006	<0.005	<0.005	0.027	<0.050	<0.010	<0.004
NOV 22...	<.04	1.21	.101	.15	<.006	E.024	<.010	<.005	<.005	.024	<.050	<.010	<.004
MAR 16...	<.04	.72	<.006	.02	<.006	E.013	E.005	<.005	<.005	.009	<.050	<.010	<.004
MAR 28...	.05	.69	.034	.22	<.006	E.005	.007	<.005	<.005	<.007	<.050	<.010	<.004
APR 12...	<.04	.73	<.006	E.003	<.006	E.016	<.006	<.005	<.005	.013	<.050	<.010	<.004
APR 29...	<.04	.85	<.006	.009	<.006	E.023	E.004	<.005	<.005	.025	<.050	<.010	<.004
MAY 17...	E.03	.98	.010	.05	<.006	E.283	.031	<.005	<.005	E24.6	<.050	<.010	<.004
MAY 20...	.08	1.49	.047	.26	<.006	E.382	.827	<.005	<.005	9.12	<.050	<.010	<.004
JUN 14...	E.03	1.16	<.006	.03	<.006	E.042	.008	<.005	<.005	.550	<.050	<.010	<.004
JUL 13...	E.02	1.53	.010	.04	<.006	E.084	.017	<.005	<.005	.273	<.050	<.010	<.004
AUG 18...	<.04	.85	E.005	.02	<.006	E.033	<.006	<.005	<.005	.076	<.050	<.010	<.004
AUG 30...	.04	.57	.091	.35	<.006	E.034	.011	<.005	<.005	.074	<.050	<.010	<.004
SEP 15...	<.04	.88	E.010	.03	<.006	E.037	<.006	<.005	<.005	.034	<.050	<.010	<.004

03303195 SINKING CREEK AT ROSETTA, KY—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Carbaryl, water, fltrd 0.7u GF (82680)	Carbofuran, water, fltrd 0.7u GF (82674)	Chlorpyrifos, water, fltrd, ug/L (38933)	cis-Permethrin, water, fltrd 0.7u GF (82687)	Cyanazine, water, fltrd, ug/L (04041)	DCPA, water, fltrd 0.7u GF (82682)	Diazinon, water, fltrd, ug/L (39572)	Dieldrin, water, fltrd, ug/L (39381)	Disulfoton, water, fltrd 0.7u GF (82677)	EPTC, water, fltrd 0.7u GF (82668)	Ethalfuralin, water, fltrd 0.7u GF (82663)	Ethoprop, water, fltrd 0.7u GF (82672)	Fonofos, water, fltrd, ug/L (04095)
OCT 25...	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<0.02	<0.004	<0.009	<0.005	<0.003
NOV 22...	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009	<.005	<.003
MAR 16...	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009	<.005	<.003
MAR 28...	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009	<.005	<.003
APR 12...	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009	<.005	<.003
APR 29...	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009	<.005	<.003
MAY 17...	E.003	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009	<.005	<.003
MAY 20...	E.079	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009	<.005	<.003
JUN 14...	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009	<.005	<.003
JUL 13...	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009	<.005	<.003
AUG 18...	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009	<.005	<.003
AUG 30...	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.076	<.009	<.005	<.003
SEP 15...	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009	<.005	<.003

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Lindane, water, fltrd, ug/L (39341)	Linuron, water, fltrd 0.7u GF (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl parathion, water, fltrd 0.7u GF (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF (82671)	Napropamide, water, fltrd 0.7u GF (82684)	p,p'-DDE, water, fltrd, ug/L (34653)	Parathion, water, fltrd, ug/L (39542)	Pebulate, water, fltrd 0.7u GF (82669)	Pendimethalin, water, fltrd 0.7u GF (82683)	Phorate, water, fltrd 0.7u GF (82664)
OCT 25...	<0.004	<0.035	<0.027	<0.015	<0.006	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011
NOV 22...	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
MAR 16...	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
MAR 28...	<.004	<.035	<.027	<.015	E.004	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
APR 12...	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
APR 29...	<.004	<.035	<.027	<.015	E.005	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
MAY 17...	<.004	<.035	<.027	<.015	.202	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
MAY 20...	<.004	<.035	<.027	<.015	.146	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
JUN 14...	<.004	<.035	<.027	<.015	.008	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
JUL 13...	<.004	<.035	<.027	<.015	.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
AUG 18...	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
AUG 30...	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
SEP 15...	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Prometon, water, fltrd, ug/L (04037)	Propy- zamide, water, fltrd 0.7u GF ug/L (82676)	Propa- chlor, water, fltrd, ug/L (04024)	Pro- panil, water, fltrd 0.7u GF ug/L (82679)	Propar- gite, water, fltrd 0.7u GF ug/L (82685)	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF ug/L (82670)	Terba- cil, water, fltrd 0.7u GF ug/L (82665)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Thio- bencarb water fltrd 0.7u GF ug/L (82681)	Tri- allate, water, fltrd 0.7u GF ug/L (82678)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 25...	<0.01	<0.004	E0.006	<0.011	<0.02	<0.005	<0.02	<0.034	<0.02	<0.010	<0.006	<0.009	3
NOV 22...	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	11
MAR 16...	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	2
MAR 28...	<.01	<.004	.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	251
APR 12...	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	--
APR 29...	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	8
MAY 17...	<.01	<.004	<.025	<.011	<.02	.093	<.02	<.034	<.02	<.010	<.006	<.009	15
MAY 20...	.01	<.004	E.006	<.011	<.02	.789	<.02	<.034	<.02	<.010	<.006	<.009	274
JUN 14...	<.01	<.004	<.025	<.011	<.02	.045	<.02	<.034	<.02	<.010	<.006	<.009	--
JUL 13...	<.01	<.004	<.010	<.011	<.02	.123	<.02	<.034	<.02	<.010	<.006	<.009	12
AUG 18...	<.01	<.004	<.025	<.011	<.02	.014	<.02	<.034	<.02	<.010	<.006	<.009	51
AUG 30...	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	1,160
SEP 15...	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	4

E--Laboratory estimated value.

M--Presence of material verified but not quantified.

<--Numeric result is less than the value shown.

3747550860904 F15CS004--BIG SPRING AT BIG SPRING, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 37°47'55", long 86°09'04", Breckinridge County, Hydrologic Unit 05140104.

PERIOD OF RECORD.--April 2004 to current water year.

COOPERATION.--Kentucky Department of Agriculture.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Turbidity, IR LED light, det ang 90 deg, FNU (63680)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Alkalinity, wat flt inc tit mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)
OCT 25...	0940	Environmental	1.1	53	748	9.7	7.8	386	13.5	173	210	5.37
NOV 22...	1030	Environmental	7.5	7.7	746	9.8	7.3	411	14.0	180	219	7.31
MAR 28...	1200	Environmental	--	130	733	10.1	6.0	179	10.0	72	88	2.44
APR 29...	1430	Environmental	6.8	--	743	10.7	8.1	376	12.5	166	203	4.97
29...	1440	Replicate	--	--	--	--	--	--	--	--	--	4.94
MAY 20...	1040	Environmental	--	--	738	8.7	7.1	231	14.0	77	94	5.49
JUL 13...	1055	Environmental	2.5	4.8	743	9.9	7.5	268	13.0	180	219	6.12
13...	1105	Replicate	--	--	--	--	--	--	--	176	214	5.76
AUG 30...	1130	Environmental	--	150	729	8.5	7.9	259	15.5	91	111	4.21
SEP 15...	0830	Environmental	1.5	2.4	744	10.1	7.5	345	14.9	167	--	5.21

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	2,6-Diethyl-aniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	Acetochlor, water, fltrd, ug/L (49260)	Alachlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)	Atrazine, water, fltrd, ug/L (39632)	Azinphosmethyl, water, fltrd 0.7u GF ug/L (82686)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Butylate, water, fltrd, ug/L (04028)
OCT 25...	<.04	1.87	0.031	0.04	<0.006	E0.042	0.010	<0.005	<0.005	0.034	<0.050	<0.010	<0.004
NOV 22...	<.04	3.95	.037	.05	<.006	E.289	<.006	<.005	<.005	.118	<.050	<.010	<.004
MAR 28...	.04	1.25	.122	.34	<.006	E.038	<.006	<.005	<.005	.030	<.050	<.010	<.004
APR 29...	<.04	2.30	.017	.03	<.006	E.121	E.006	<.005	<.005	.212	<.050	<.010	<.004
29...	<.04	2.30	.016	.03	<.006	E.130	E.004	<.005	<.005	.211	<.050	<.010	<.004
MAY 20...	.61	4.95	.459	.83	<.006	E1.11	2.85	<.005	<.005	11.5	<.050	<.010	<.004
JUL 13...	<.04	2.87	.024	.07	<.006	E.135	.044	<.005	<.005	.106	<.050	<.010	<.004
13...	<.04	2.79	.027	.07	<.006	E.122	.042	<.005	<.005	.104	<.050	<.010	<.004
AUG 30...	E.03	2.11	.219	.36	<.006	E.082	<.020	<.005	<.005	.090	<.050	<.010	<.004
SEP 15...	<.04	2.32	.033	.05	<.006	E.142	E.003	<.005	<.005	.058	<.050	<.010	<.004

3747550860904 F15CS004--BIG SPRING AT BIG SPRING, KY—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Carbaryl, water, fltrd 0.7u GF (82680)	Carbofuran, water, fltrd 0.7u GF (82674)	Chlorpyrifos, water, fltrd, ug/L (38933)	cis-Permethrin, water, fltrd 0.7u GF (82687)	Cyanazine, water, fltrd, ug/L (04041)	DCPA, water, fltrd 0.7u GF (82682)	Diazinon, water, fltrd, ug/L (39572)	Dieldrin, water, fltrd, ug/L (39381)	Disulfoton, water, fltrd 0.7u GF (82677)	EPTC, water, fltrd 0.7u GF (82668)	Ethalfuralin, water, fltrd 0.7u GF (82663)	Ethoprop, water, fltrd 0.7u GF (82672)	Fonofos, water, fltrd, ug/L (04095)
OCT 25...	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<0.02	<0.004	<0.009	<0.005	<0.003
NOV 22...	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009	<0.005	<0.003
MAR 28...	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009	<0.005	<0.003
APR 29...	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009	<0.005	<0.003
APR 29...	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009	<0.005	<0.003
MAY 20...	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009	<0.005	<0.003
JUL 13...	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009	<0.005	<0.003
JUL 13...	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009	<0.005	<0.003
AUG 30...	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.011	<0.009	<0.005	<0.003
SEP 15...	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.024	<0.009	<0.005	<0.003

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Lindane, water, fltrd, ug/L (39341)	Linuron, water, fltrd 0.7u GF (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl parathion, water, fltrd 0.7u GF (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF (82671)	Napropamide, water, fltrd 0.7u GF (82684)	p,p'-DDE, water, fltrd, ug/L (34653)	Parathion, water, fltrd, ug/L (39542)	Pebulate, water, fltrd 0.7u GF (82669)	Pendimethalin, water, fltrd 0.7u GF (82683)	Phorate, water, fltrd 0.7u GF (82664)
OCT 25...	<0.004	<0.035	<0.027	<0.015	<0.006	0.035	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011
NOV 22...	<0.004	<0.035	<0.027	<0.015	<0.006	.018	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011
MAR 28...	<0.004	<0.035	<0.027	<0.015	E.003	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011
APR 29...	<0.004	<0.035	<0.027	<0.015	.017	.009	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011
APR 29...	<0.004	<0.035	<0.027	<0.015	.015	.008	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011
MAY 20...	.005	<0.035	<0.027	<0.015	1.55	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011
JUL 13...	<0.004	<0.035	<0.027	<0.015	.035	.023	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011
JUL 13...	<0.004	<0.035	<0.027	<0.015	.033	.021	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011
AUG 30...	<0.004	<0.035	<0.027	<0.015	.193	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011
SEP 15...	<0.004	<0.035	<0.027	<0.015	<0.006	.008	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011

3747550860904 F15CS004--BIG SPRING AT BIG SPRING, KY—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Prometon, water, fltrd, ug/L (04037)	Propyzamide, water, fltrd, 0.7u GF ug/L (82676)	Propachlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd, 0.7u GF ug/L (82679)	Propargite, water, fltrd, 0.7u GF ug/L (82685)	Simazine, water, fltrd, ug/L (04035)	Tebu-thiuron water fltrd, 0.7u GF ug/L (82670)	Terbacil, water, fltrd, 0.7u GF ug/L (82665)	Terbufos, water, fltrd, 0.7u GF ug/L (82675)	Thio-bencarb water fltrd, 0.7u GF ug/L (82681)	Tri-allate, water, fltrd, 0.7u GF ug/L (82678)	Tri-fluralin, water, fltrd, 0.7u GF ug/L (82661)	Suspended sediment concentration mg/L (80154)
OCT 25...	<0.01	<0.004	E0.004	<0.011	<0.02	0.010	<0.02	<0.034	<0.02	<0.010	<0.006	<0.009	1
NOV 22...	<.01	<.004	<.025	<.011	<.02	<.010	<.02	<.034	<.02	<.010	<.006	<.009	7
MAR 28...	<.01	<.004	E.016	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	194
APR 29...	<.01	<.004	E.004	<.011	<.02	.100	<.02	<.034	<.02	<.010	<.006	<.009	7
29...	<.01	<.004	<.025	<.011	<.02	.093	<.02	<.034	<.02	<.010	<.006	<.009	8
MAY 20...	<.01	<.004	E.006	<.011	<.02	2.68	<.02	<.034	<.02	<.010	<.006	<.009	440
JUL 13...	<.01	<.004	<.016	<.011	<.02	.031	<.02	<.034	<.02	<.010	<.006	<.009	6
13...	<.01	<.004	<.025	<.011	<.02	.029	<.02	<.034	<.02	<.010	<.006	<.009	--
AUG 30...	<.01	<.004	<.025	<.011	<.02	.013	<.02	<.034	<.02	<.010	<.006	<.009	239
SEP 15...	<.01	<.004	<.025	<.011	<.02	.029	<.02	<.034	<.02	<.010	<.006	<.009	2

E--Laboratory estimated value.

M--Presence of material verified but not quantified.

<--Numeric result is less than the value shown.

374813086171501 F14DS005--FLAT ROCK SPRING NEAR ROSETTA, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 37°48'13", long 86°17'15", Breckinridge County, Hydrologic Unit 05140104.

PERIOD OF RECORD.--April 2004 to current water year.

COOPERATION.--Kentucky Department of Agriculture.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Turbidity, IR LED light, det ang 90 deg, FNU (63680)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)
OCT 25...	1150	Environmental	3.1	55	748	9.9	7.7	476	13.5	222	269	5.27
25...	1158	Field Blank	--	--	--	--	--	--	--	--	--	<0.20
NOV 22...	1215	Environmental	23	16	748	10.1	7.4	407	13.5	184	223	5.27
MAR 28...	1320	Environmental	--	340	733	10.6	7.2	175	10.5	71	86	2.08
APR 29...	1200	Environmental	16	--	742	10.7	8.1	452	13.0	207	253	4.86
MAY 20...	1200	Environmental	--	--	738	9.1	7.2	205	14.0	85	104	2.96
JUL 13...	1330	Environmental	16	98	745	8.5	7.3	174	15.5	99	120	3.70
AUG 18...	1100	Environmental	3.7	--	748	10.4	7.5	465	13.5	176	215	5.72
30...	1315	Environmental	--	140	727	7.3	7.6	353	14.5	120	146	5.25
SEP 15...	0940	Environmental	4.5	2.9	749	9.8	7.6	433	14.0	195	238	5.70

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	2,6-Diethyl-aniline water fltrd 0.7u GF (82660)	CIAT, water, fltrd, ug/L (04040)	Acetochlor, water, fltrd, ug/L (49260)	Alachlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)	Atrazine, water, fltrd, ug/L (39632)	Azinphosmethyl, water, fltrd 0.7u GF (82686)	Benfluralin, water, fltrd 0.7u GF (82673)	Butylate, water, fltrd, ug/L (04028)
OCT 25...	<0.04	1.57	0.045	0.06	<0.006	E0.044	<0.006	<0.005	<0.005	0.046	<0.050	<0.010	<0.004
25...	<.04	<0.06	<.006	<.004	--	--	--	--	--	--	--	--	--
NOV 22...	<.04	2.54	.050	.09	<.006	E.106	<.006	<.005	<.005	.059	<.050	<.010	<.004
MAR 28...	.07	.84	.057	.45	<.006	E.009	<.006	<.005	<.005	.010	<.050	<.010	<.004
APR 29...	<.04	1.99	.022	.04	<.006	E.072	E.005	<.005	<.005	.069	<.050	<.010	<.004
MAY 20...	.11	1.38	.134	.61	<.006	E.244	.577	<.005	<.005	2.67	<.050	<.010	<.004
JUL 13...	<.04	2.19	.181	.35	<.006	E.042	<.006	<.005	<.005	.121	<.050	<.010	<.004
AUG 18...	<.04	2.31	.043	.06	<.006	E.074	<.006	<.005	<.005	.050	<.050	<.010	<.004
30...	<.04	1.73	.164	.30	<.006	E.043	<.006	<.005	<.005	.052	<.050	<.010	<.004
SEP 15...	<.04	2.35	.050	.08	<.006	E.107	<.006	<.005	<.005	.056	<.050	<.010	<.004

374813086171501 F14DS005--FLAT ROCK SPRING NEAR ROSETTA, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005--CONTINUED

Date	Carbaryl, water, fltrd 0.7u GF (82680)	Carbofuran, water, fltrd 0.7u GF (82674)	Chlorpyrifos water, fltrd, ug/L (38933)	cis-Permethrin water fltrd 0.7u GF (82687)	Cyanazine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF (82682)	Diazinon, water, fltrd, ug/L (39572)	Dieldrin, water, fltrd, ug/L (39381)	Disulfoton, water, fltrd 0.7u GF (82677)	EPTC, water, fltrd 0.7u GF (82668)	Ethalfuralin, water, fltrd 0.7u GF (82663)	Ethoprop, water, fltrd 0.7u GF (82672)	Fonofos water, fltrd, ug/L (04095)
OCT 25...	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<0.02	<0.004	<0.009	<0.005	<0.003
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 22...	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009	<.005	<.003
MAR 28...	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009	<.005	<.003
APR 29...	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009	<.005	<.003
MAY 20...	E.031	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009	<.005	<.003
JUL 13...	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009	<.005	<.003
AUG 18...	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.004	<.009	<.005	<.003
30...	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.113	<.009	<.005	<.003
SEP 15...	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02	<.029	<.009	<.005	<.003

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005--CONTINUED

Date	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl parathion, water, fltrd 0.7u GF (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF (82671)	Napropamide, water, fltrd 0.7u GF (82684)	p,p'-DDE, water, fltrd, ug/L (34653)	Parathion, water, fltrd, ug/L (39542)	Pebulate, water, fltrd 0.7u GF (82669)	Pendimethalin, water, fltrd 0.7u GF (82683)	Phorate water fltrd 0.7u GF (82664)
OCT 25...	<0.004	<0.035	<0.027	<0.015	<0.006	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 22...	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
MAR 28...	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
APR 29...	<.004	<.035	<.027	<.015	E.002	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
MAY 20...	<.004	<.035	<.027	<.015	.068	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
JUL 13...	<.004	<.035	<.027	<.015	.021	<.006	<.003	<.007	<.003	<.010	<.004	.024	<.011
AUG 18...	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
30...	<.004	<.035	<.027	<.015	.038	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
SEP 15...	<.004	<.035	<.027	<.015	<.008	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011

374813086171501 F14DS005--FLAT ROCK SPRING NEAR ROSETTA, KY—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Prometon, water, fltrd, ug/L (04037)	Propyzamide, water, fltrd, 0.7u GF ug/L (82676)	Propanchlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd, 0.7u GF ug/L (82679)	Propargite, water, fltrd, 0.7u GF ug/L (82685)	Simazine, water, fltrd, ug/L (04035)	Tebu-thiuron water fltrd, 0.7u GF ug/L (82670)	Terbacil, water, fltrd, 0.7u GF ug/L (82665)	Terbufos, water, fltrd, 0.7u GF ug/L (82675)	Thio-bencarb water fltrd, 0.7u GF ug/L (82681)	Tri-allate, water, fltrd, 0.7u GF ug/L (82678)	Tri-flur-alin, water, fltrd, 0.7u GF ug/L (82661)	Suspended sediment concentration mg/L (80154)
OCT 25...	<0.01	<0.004	<0.025	<0.011	<0.02	<0.010	<0.02	<0.034	<0.02	<0.010	<0.006	<0.009	3
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 22...	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	15
MAR 28...	<.01	<.004	E.006	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	547
APR 29...	<.01	<.004	E.013	<.011	<.02	.020	<.02	<.034	<.02	<.010	<.006	<.009	6
MAY 20...	<.01	<.004	<.025	<.011	<.02	.665	<.02	<.034	<.02	<.010	<.006	<.009	788
JUL 13...	<.01	<.004	<.020	<.011	<.02	.128	<.02	<.034	<.02	<.010	<.006	<.009	81
AUG 18...	<.01	<.004	<.025	<.011	<.02	.015	<.02	<.034	<.02	<.010	<.006	<.009	25
30...	<.01	<.004	<.025	<.011	<.02	.014	<.02	<.034	<.02	<.010	<.006	<.009	246
SEP 15...	<.01	<.004	<.025	<.011	<.02	.029	<.02	<.034	<.02	<.010	<.006	<.009	4

E--Laboratory estimated value.

M--Presence of material verified but not quantified.

<--Numeric result is less than the value shown.

374846086154101 F14DS003--ROSS KARST WINDOW NEAR BIG SPRING, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 37°48'46", long 86°15'41", Breckinridge County, Hydrologic Unit 05140104.

PERIOD OF RECORD.--May 2004 to current water year.

COOPERATION.--Kentucky Department of Agriculture.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Sample type	Turbidity, IR LED light, det ang 90 deg, FNU (63680)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfltrd, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Alkalinity, wat fltr inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat fltr incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Ammonia water, fltrd, mg/L as N (00608)
OCT 25...	1130	Environmental	58	748	9.3	7.4	468	13.5	217	264	5.87	<0.04
NOV 22...	1130	Environmental	14	748	9.7	7.3	422	13.5	186	227	5.41	<.04
MAR 28...	1240	Environmental	240	733	10.8	7.0	159	10.0	63	77	1.73	.07
APR 29...	1135	Environmental	--	741	10.5	8.0	448	13.0	207	253	4.78	<.04
MAY 20...	1125	Environmental	--	738	9.5	7.3	213	14.0	87	106	3.38	.10
JUL 13...	1140	Environmental	91	743	8.0	7.2	272	15.5	116	141	3.82	<.04
JUL 13...	1148	Field Blank	--	--	--	--	--	--	--	--	--	--
AUG 30...	1215	Environmental	180	728	8.5	7.7	306	14.5	124	150	4.20	E.03
SEP 15...	0915	Environmental	3.3	746	9.8	7.4	450	14.0	205	250	5.77	<.04
SEP 15...	0925	Replicate	--	--	--	--	--	--	--	--	5.73	<.04

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	2,6-Diethyl-aniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	Acetochlor, water, fltrd, ug/L (49260)	Alachlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)	Atrazine, water, fltrd, ug/L (39632)	Azinphosmethyl, water, fltrd 0.7u GF ug/L (82686)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Butylate, water, fltrd, ug/L (04028)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)
OCT 25...	1.47	0.041	0.06	<0.006	E0.042	<0.006	<0.005	<0.005	0.041	<0.050	<0.010	<0.004	<0.041
NOV 22...	2.40	.045	.08	<.006	E.107	<.006	<.005	<.005	.057	<.050	<.010	<.004	<.041
MAR 28...	0.76	.054	.33	<.006	E.008	<.006	<.005	<.005	.011	<.050	<.010	<.004	<.041
APR 29...	1.96	.019	.03	<.006	E.072	E.005	<.005	<.005	.069	<.050	<.010	<.004	<.041
MAY 20...	1.54	.185	.53	<.006	E.198	.806	<.005	<.005	2.18	<.050	<.010	<.004	E.039
JUL 13...	1.83	.171	.32	<.006	E.048	.007	<.005	<.005	.111	<.050	<.010	<.004	<.041
JUL 13...	--	--	--	<.006	<.006	<.006	<.005	<.005	<.007	<.050	<.010	<.004	<.041
AUG 30...	1.67	.214	.89	<.006	E.033	<.006	<.005	<.005	.030	<.050	<.010	<.004	<.041
SEP 15...	2.45	.044	.08	<.006	E.094	<.006	<.005	<.005	.052	<.050	<.010	<.004	<.041
SEP 15...	2.44	.031	.08	<.006	E.096	<.006	<.005	<.005	.053	<.050	<.010	<.004	<.041

374846086154101 F14DS003--ROSS KARST WINDOW NEAR BIG SPRING, KY—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Carbo- furan, water, fltrd 0.7u GF (82674)	Chlor- pyrifos water, fltrd, ug/L (38933)	cis- Per- methrin water fltrd 0.7u GF (82687)	Cyana- zine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF (82682)	Diazi- non, water, fltrd, ug/L (39572)	Diel- drin, water, fltrd, ug/L (39381)	Disul- foton, water, fltrd 0.7u GF (82677)	EPTC, water, fltrd 0.7u GF (82668)	Ethal- flur- alin, water, fltrd 0.7u GF (82663)	Etho- prop, water, fltrd 0.7u GF (82672)	Fonofos water, fltrd, ug/L (04095)	Lindane water, fltrd, ug/L (39341)
OCT 25...	<0.070	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<0.02	<0.004	<0.009	<0.005	<0.003	<0.004
NOV 22...	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009	<0.005	<0.003	<0.004
MAR 28...	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009	<0.005	<0.003	<0.004
APR 29...	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009	<0.005	<0.003	<0.004
MAY 20...	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009	<0.005	<0.003	<0.004
JUL 13...	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009	<0.005	<0.003	<0.004
JUL 13...	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009	<0.005	<0.003	<0.004
AUG 30...	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.064	<0.009	<0.005	<0.003	<0.004
SEP 15...	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009	<0.005	<0.003	<0.004
SEP 15...	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009	<0.005	<0.003	<0.004

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Linuron water fltrd 0.7u GF (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl para- thion, water, fltrd 0.7u GF (82667)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Moli- nate, water, fltrd 0.7u GF (82671)	Naprop- amide, water, fltrd 0.7u GF (82684)	p,p'- DDE, water, fltrd, ug/L (34653)	Para- thion, water, fltrd, ug/L (39542)	Peb- ulate, water, fltrd 0.7u GF (82669)	Pendi- meth- alin, water, fltrd 0.7u GF (82683)	Phorate water fltrd 0.7u GF (82664)	Prome- ton, water, fltrd, ug/L (04037)
OCT 25...	<0.035	<0.027	<0.015	<0.010	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01
NOV 22...	<0.035	<0.027	<0.015	<0.006	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01
MAR 28...	<0.035	<0.027	<0.015	<0.006	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01
APR 29...	<0.035	<0.027	<0.015	E.002	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01
MAY 20...	<0.035	<0.027	<0.015	.288	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01
JUL 13...	<0.035	<0.027	<0.015	.032	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01
JUL 13...	<0.035	<0.027	<0.015	<0.006	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01
AUG 30...	<0.035	<0.027	<0.015	.021	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01
SEP 15...	<0.035	<0.027	<0.015	.006	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01
SEP 15...	<0.035	<0.027	<0.015	.006	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01

374846086154101 F14DS003--ROSS KARST WINDOW NEAR BIG SPRING, KY—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Propy- zamide, water, fltrd 0.7u GF (82676)	Propa- chlor, water, fltrd, ug/L (04024)	Pro- panil, water, fltrd 0.7u GF (82679)	Propar- gite, water, fltrd 0.7u GF (82685)	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF (82670)	Terba- cil, water, fltrd 0.7u GF (82665)	Terbu- fos, water, fltrd 0.7u GF (82675)	Thio- bencarb water fltrd 0.7u GF (82681)	Tri- allate, water, fltrd 0.7u GF (82678)	Tri- flur- alin, water, fltrd 0.7u GF (82661)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 25...	<0.004	E0.011	<0.011	<0.02	0.015	<0.02	<0.034	<0.02	<0.010	<0.006	<0.009	6
NOV 22...	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	14
MAR 28...	<.004	E.007	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	489
APR 29...	<.004	.029	<.011	<.02	.016	<.02	<.034	<.02	<.010	<.006	<.009	12
MAY 20...	<.004	<.025	<.011	<.02	.448	<.02	<.034	<.02	<.010	<.006	<.009	489
JUL 13...	<.004	<.020	<.011	<.02	.127	<.02	<.034	<.02	<.010	<.006	<.009	--
JUL 13...	<.004	<.006	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	--
AUG 30...	<.004	<.025	<.011	<.02	.008	<.02	<.034	<.02	<.010	<.006	<.009	238
SEP 15...	<.004	<.025	<.011	<.02	.021	<.02	<.034	<.02	<.010	<.006	<.009	17
SEP 15...	<.004	<.025	<.011	<.02	.022	<.02	<.034	<.02	<.010	<.006	<.009	6

E--Laboratory estimated value.

M--Presence of material verified but not quantified.

<--Numeric result is less than the value shown.

WATER-QUALITY RECORDS

LOCATION.--Lat 37°52'09", long 86°22'40", Breckinridge County, Hydrologic Unit 05140104.

PERIOD OF RECORD.--April 2004 to current water year.

COOPERATION.--Kentucky Department of Agriculture.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Turbidity, IR LED light, det ang 90 deg, FNU (63680)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd, std units (00400)	Specif. conductance, wat unfltrd, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Alkalinity, wat fltr inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat fltr incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)
OCT 25...	1200	Environmental	16	3.7	748	--	7.2	640	15.0	220	268	6.40
NOV 22...	1300	Environmental	153	27	744	9.7	7.3	439	13.5	192	232	5.25
APR 29...	1500	Environmental	78	6.4	740	9.8	7.5	493	13.0	207	253	5.12
MAY 20...	0900	Environmental	--	400	738	9.1	7.1	265	14.5	100	--	3.18
JUL 13...	1255	Environmental	--	120	743	7.6	7.2	372	16.5	138	169	4.57

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005--CONTINUED

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	2,6-Diethyl-aniline water fltrd 0.7u GF (82660)	CIAT, water, fltrd, ug/L (04040)	Aceto-chlor, water, fltrd, ug/L (49260)	Ala-chlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)	Atra-zine, water, fltrd, ug/L (39632)	Azin-phos-methyl, water, fltrd 0.7u GF (82686)	Ben-flur-alin, water, fltrd 0.7u GF (82673)	Butyl-ate, water, fltrd, ug/L (04028)
OCT 25...	<0.04	1.26	0.041	0.07	<0.006	E0.035	<0.010	<0.005	<0.005	0.040	<0.050	<0.010	<0.004
NOV 22...	<.04	2.24	.066	.14	<.006	E.074	<.006	<.005	<.005	.042	<.050	<.010	<.004
APR 29...	<.04	1.67	.022	.04	<.006	E.063	.014	<.005	<.005	.105	<.050	<.010	<.004
MAY 20...	.07	1.39	.093	.58	<.006	E.398	.652	<.005	<.005	4.35	<.050	<.010	<.004
JUL 13...	<.04	1.81	.086	.23	<.006	E.073	.076	<.005	<.005	.269	<.050	<.010	<.004

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005--CONTINUED

Date	Carbaryl, water, fltrd 0.7u GF (82680)	Carbo-furan, water, fltrd 0.7u GF (82674)	Chlor-pyrifos water, fltrd, ug/L (38933)	cis-Per-methrin water fltrd 0.7u GF (82687)	Cyana-zine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF (82682)	Diazi-non, water, fltrd, ug/L (39572)	Diel-drin, water, fltrd, ug/L (39381)	Disul-foton, water, fltrd 0.7u GF (82677)	EPTC, water, fltrd 0.7u GF (82668)	Ethal-flur-alin, water, fltrd 0.7u GF (82663)	Etho-prop, water, fltrd 0.7u GF (82672)	Fonofos water, fltrd, ug/L (04095)
OCT 25...	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<0.02	<0.004	<0.009	<0.005	<0.003
NOV 22...	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009	<0.005	<0.003
APR 29...	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009	<0.005	<0.003
MAY 20...	E.021	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009	<0.005	<0.003
JUL 13...	E.045	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.009	<.02	<0.004	<0.009	<0.005	<0.003

375209086224001 F14CS002--BOILING SPRING NEAR LODIBURG, KY—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)	Napropamide, water, fltrd 0.7u GF ug/L (82684)	p,p'-DDE, water, fltrd, ug/L (34653)	Parathion, water, fltrd, ug/L (39542)	Pebulate, water, fltrd 0.7u GF ug/L (82669)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate water fltrd 0.7u GF ug/L (82664)
OCT 25...	<0.004	<0.035	<0.027	<0.015	0.011	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011
NOV 22...	<.004	<.035	<.027	<.015	.008	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
APR 29...	<.004	<.035	<.027	<.015	.007	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
MAY 20...	<.004	<.035	<.027	<.015	.365	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
JUL 13...	<.004	<.035	<.027	<.015	.033	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Prometon, water, fltrd, ug/L (04037)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Propanchlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd 0.7u GF ug/L (82679)	Propargite, water, fltrd 0.7u GF ug/L (82685)	Simazine, water, fltrd, ug/L (04035)	Tebu-thiuron water fltrd 0.7u GF ug/L (82670)	Terbacil, water, fltrd 0.7u GF ug/L (82665)	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Thio-bencarb water fltrd 0.7u GF ug/L (82681)	Tri-allate, water, fltrd 0.7u GF ug/L (82678)	Tri-fluralin, water, fltrd 0.7u GF ug/L (82661)	Suspended sediment concentration mg/L (80154)
OCT 25...	<0.01	<0.004	E0.021	<0.011	<0.02	<0.010	<0.02	<0.034	<0.02	<0.010	<0.006	<0.009	7
NOV 22...	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	31
APR 29...	<.01	<.004	E.007	<.011	<.02	.010	<.02	<.034	<.02	<.010	<.006	<.009	8
MAY 20...	<.01	<.004	<.025	<.011	<.02	.076	<.02	<.034	<.02	<.010	<.006	<.009	1,040
JUL 13...	E.01	<.004	<.031	<.011	<.02	.030	<.02	<.034	<.02	<.010	<.006	<.009	81

E--Laboratory estimated value.
M--Presence of material verified but not quantified.
<--Numeric result is less than the value shown.