

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 except for those estimated, which are poor.

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)
Feb 6	0600	3,290	8.98	Jul 31	1930	1,680	6.11
Mar 6	0430	1,660	6.07	Sep 17	1030	*3,880	*10.05

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

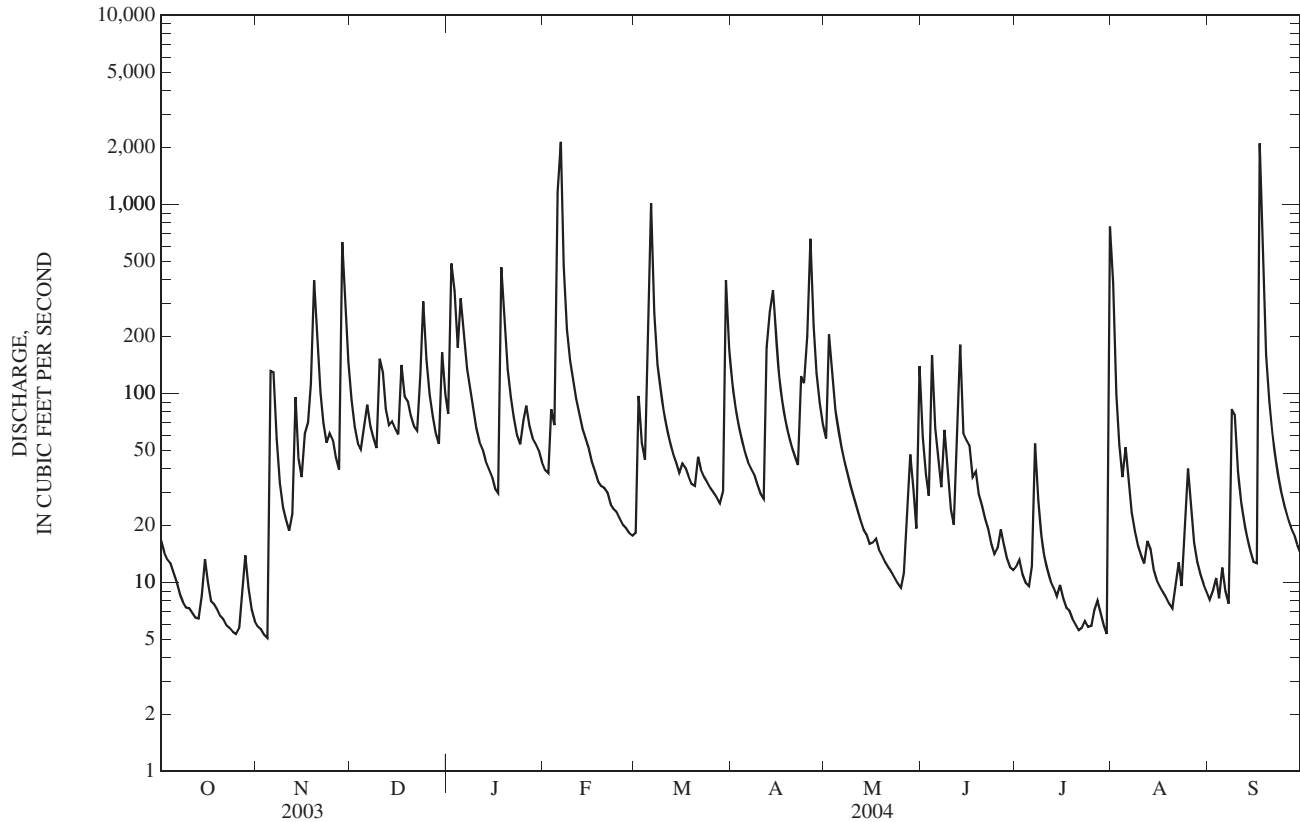
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	5.9	93	78	39	18	113	58	59	12	384	8.1
2	14	5.6	67	486	38	97	84	205	37	13	99	9.1
3	13	5.3	54	348	82	55	69	125	29	11	54	11
4	13	5.1	51	175	68	45	58	82	159	10	36	8.2
5	11	131	67	318	1,160	153	49	65	65	9.6	52	12
6	10	129	87	214	2,140	1,010	43	52	44	12	34	9.0
7	8.6	58	67	135	471	267	40	43	32	54	23	7.7
8	7.9	34	58	104	219	142	37	37	64	27	19	82
9	7.4	25	51	84	149	104	33	32	40	18	16	77
10	7.3	22	152	65	116	81	30	28	24	14	14	39
11	6.9	19	129	56	93	66	28	25	20	12	13	27
12	6.5	23	83	50	77	55	175	21	63	10	17	21
13	6.5	95	68	44	65	48	269	19	181	9.3	15	17
14	8.5	46	71	40	57	43	350	18	62	8.5	12	15
15	13	36	65	36	51	38	200	16	57	9.7	10	13
16	10	61	61	31	43	43	124	16	53	8.3	9.5	13
17	8.0	70	141	30	39	40	91	17	36	7.3	8.9	2,090
18	7.7	113	97	464	34	37	72	15	39	7.1	8.3	499
19	7.2	395	90	267	32	33	60	14	29	6.4	7.8	159
20	6.6	188	76	134	32	32	53	13	26	6.0	7.3	91
21	6.4	101	67	95	30	46	47	12	22	5.6	9.7	62
22	5.9	70	64	75	26	40	42	11	19	5.7	13	46
23	5.7	55	125	60	24	36	123	11	16	6.3	9.6	36
24	5.5	62	305	54	24	34	113	9.9	14	5.8	22	29
25	5.3	57	151	72	22	32	200	9.4	15	5.9	40	25
26	5.7	46	99	86	20	30	656	11	19	7.1	26	22
27	8.8	40	75	67	19	28	227	23	16	8.0	16	20
28	14	630	62	58	18	26	128	47	13	6.9	13	18
29	9.4	304	54	54	18	30	89	31	12	5.9	11	16
30	7.2	147	164	50	---	396	68	19	12	5.3	9.7	14
31	6.2	---	99	43	---	173	---	139	---	760	8.9	---
TOTAL	270.2	2,978.9	2,893	3,873	5,206	3,278	3,671	1,224.3	1,277	1,087.7	1,018.7	3,496.1
MEAN	8.72	99.3	93.3	125	180	106	122	39.5	42.6	35.1	32.9	117
MAX	17	630	305	486	2,140	1,010	656	205	181	760	384	2,090
MIN	5.3	5.1	51	30	18	18	28	9.4	12	5.3	7.3	7.7
CFSM	0.20	2.29	2.15	2.88	4.14	2.44	2.82	0.91	0.98	0.81	0.76	2.69
IN.	0.23	2.55	2.48	3.32	4.46	2.81	3.15	1.05	1.09	0.93	0.87	3.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2004, BY WATER YEAR (WY)

MEAN	16.6	28.7	77.6	92.7	122	121	85.3	44.8	38.2	13.9	14.3	19.2
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	7.98	3.89	1.91	1.77
(WY)	(2000)	(2001)	(1998)	(2000)	(2002)	(2003)	(1995)	(2001)	(1991)	(1990)	(1990)	(2000)

03413200 BEAVER CREEK NEAR MONTICELLO, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1990 - 2004	
ANNUAL TOTAL	29,567.6		30,273.9		55.9	
ANNUAL MEAN	81.0		82.7		82.7	
HIGHEST ANNUAL MEAN					24.7	
LOWEST ANNUAL MEAN					2,200	
HIGHEST DAILY MEAN	2,200	Feb 16	2,140	Feb 6	2,200	Feb 16, 2003
LOWEST DAILY MEAN	4.6	Jul 27	5.1	Nov 4	1.2	Sep 6, 1995
ANNUAL SEVEN-DAY MINIMUM	5.8	Jul 22	5.9	Oct 20	1.2	Oct 23, 1999
MAXIMUM PEAK FLOW			3,880	Sep 17	3,880	Sep 17, 2004
MAXIMUM PEAK STAGE			10.05	Sep 17	10.05	Sep 17, 2004
INSTANTANEOUS LOW FLOW					0.50	Oct 2, 1968
ANNUAL RUNOFF (CFSM)	1.87		1.91		1.29	
ANNUAL RUNOFF (INCHES)	25.34		25.95		17.49	
10 PERCENT EXCEEDS	156		155		121	
50 PERCENT EXCEEDS	29		36		18	
90 PERCENT EXCEEDS	7.2		7.9		2.4	



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, nonrecording 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)
Apr 24	0030	*4,000	*11.54				

No other peak greater than base discharge.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	39	395	407	279	152	185	905	1,080	109	315	71
2	84	36	336	508	262	157	173	999	638	107	151	67
3	82	34	299	687	347	170	161	1,040	490	104	116	67
4	77	32	281	507	467	326	150	1,010	404	105	103	68
5	e73	30	272	680	1,100	382	140	773	345	116	592	63
6	e63	29	252	663	2,510	419	133	637	301	212	596	69
7	e57	27	230	531	1,330	449	128	543	267	464	347	62
8	e60	28	213	475	951	357	125	471	239	388	256	55
9	59	34	201	438	776	307	120	422	216	231	210	49
10	62	31	197	394	675	271	116	383	207	188	183	41
11	60	30	216	352	591	244	111	375	215	201	161	37
12	59	30	205	324	526	222	114	341	192	259	141	95
13	52	28	183	299	477	204	177	318	182	203	127	193
14	50	40	185	276	434	189	751	340	182	200	113	139
15	49	36	240	242	409	180	636	1,190	172	194	103	109
16	71	54	248	219	372	182	475	1,630	365	150	95	99
17	61	83	258	205	335	196	374	962	455	139	87	91
18	55	202	264	229	e295	196	308	767	338	170	81	91
19	e52	741	245	338	e265	196	264	605	288	136	75	87
20	e49	475	231	292	268	357	235	509	237	118	88	79
21	e47	331	212	248	252	708	225	442	207	107	93	69
22	44	270	200	227	233	500	391	394	187	97	92	65
23	41	231	305	209	217	413	2,310	354	178	94	87	62
24	38	432	747	198	207	360	2,670	320	180	108	231	58
25	40	519	516	236	194	317	1,550	294	155	88	213	54
26	84	360	424	547	181	283	1,240	276	157	84	134	48
27	225	522	370	521	171	256	890	554	138	85	111	45
28	116	946	333	448	160	236	712	371	123	80	97	44
29	81	582	320	385	154	221	601	316	116	78	89	56
30	62	467	579	350	---	206	651	297	116	74	82	55
31	48	---	482	313	---	195	---	1,360	---	184	76	---
TOTAL	2,089	6,699	9,439	11,748	14,438	8,851	16,116	19,198	8,370	4,873	5,245	2,188
MEAN	67.4	223	304	379	498	286	537	619	279	157	169	72.9
MAX	225	946	747	687	2,510	708	2,670	1,630	1,080	464	596	193
MIN	38	27	183	198	154	152	111	276	116	74	75	37
CFSM	0.28	0.92	1.25	1.55	2.04	1.17	2.20	2.54	1.14	0.64	0.69	0.30
IN.	0.32	1.02	1.44	1.79	2.20	1.35	2.46	2.93	1.28	0.74	0.80	0.33

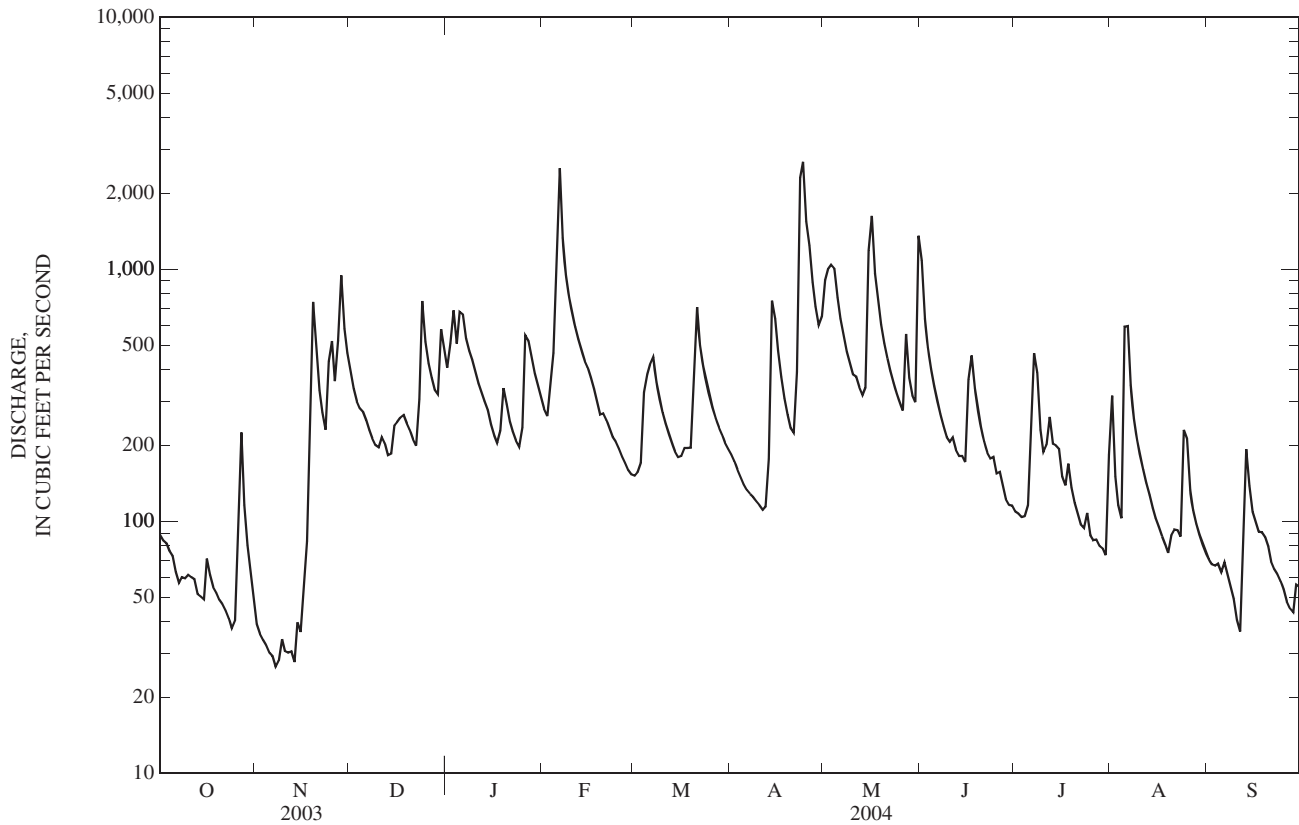
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	75.8	214	467	550	687	752	550	443	228	146	96.8	102
MAX	609	1,677	1,985	2,168	2,130	3,653	1,924	1,875	1,498	790	381	925
(WY)	(2003)	(1958)	(1979)	(1950)	(1989)	(1997)	(1979)	(1984)	(1998)	(1989)	(1950)	(1950)
MIN	12.3	14.1	14.2	27.3	39.6	28.1	37.5	21.4	34.0	29.6	23.9	15.7
(WY)	(1944)	(1941)	(1964)	(1963)	(1963)	(1941)	(1941)	(1941)	(1963)	(1988)	(1952)	(1941)

03438000 LITTLE RIVER NEAR CADIZ, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	174,832		109,254		358	
ANNUAL MEAN	479		299		757	
HIGHEST ANNUAL MEAN					58.9	
LOWEST ANNUAL MEAN					24,300	
HIGHEST DAILY MEAN	5,170	May 7	2,670	Apr 24	24,300	Mar 2, 1997
LOWEST DAILY MEAN	27	Nov 7	27	Nov 7	3.6	Oct 3, 1941
ANNUAL SEVEN-DAY MINIMUM	30	Nov 7	30	Nov 7	7.0	Oct 24, 1940
MAXIMUM PEAK FLOW			4,000	Apr 24	37,600	Mar 1, 1997
MAXIMUM PEAK STAGE			11.54	Apr 24	26.44	Mar 1, 1997
INSTANTANEOUS LOW FLOW			25	Nov 7	1.0	Oct 3, 1941
ANNUAL RUNOFF (CFSM)	1.96		1.22		1.47	
ANNUAL RUNOFF (INCHES)	26.65		16.66		19.93	
10 PERCENT EXCEEDS	1,150		602		833	
50 PERCENT EXCEEDS	265		211		143	
90 PERCENT EXCEEDS	59		55		28	

e Estimated



03438000 LITTLE RIVER NEAR CADIZ, KY—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2003 to current water year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 2003 to current water year.

pH: April 2003 to current water year.

WATER TEMPERATURES: April 2003 to current water year.

DISSOLVED OXYGEN: April 2003 to current year.

TURBIDITY: April 2003 to current water year.

INSTRUMENTATION.--Water-quality monitor with telemetry.

REMARKS.--

SPECIFIC CONDUCTANCE.-- Records rated good.

pH.-- Records rated good except for the following period: Feb. 18-Mar. 7 rated fair.

WATER TEMPERATURE.--Records rated good.

DISSOLVED OXYGEN.-- Records rated poor.

TURBIDITY.-- Records rated poor.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.-- Maximum recorded, 535 microsiemens, Oct. 28 ; minimum recorded, 211 microsiemens, Apr. 24.

pH.--Maximum recorded, 9.0 units, Mar. 18-20; minimum recorded, 7.0 units, Aug. 6.

WATER TEMPERATURE.-- Maximum recorded, 24.5°C, July 22-23; minimum recorded, 5.2°C, Feb. 6.

DISSOLVED OXYGEN.-- Maximum recorded, 18.7 mg/L, Mar. 11; minimum recorded, 4.6 mg/L, Sep. 14.

TURBIDITY.-- Maximum recorded, 330 NTU, Apr. 23; minimum recorded, 0.0 NTU, on several days.

COOPERATION.--Kentucky Department of Agriculture

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	420	417	417	---	---	---	396	375	386	368	358	361
2	---	---	---	---	---	---	409	396	403	409	368	393
3	---	---	---	442	437	440	417	409	413	410	354	378
4	---	---	---	456	442	451	422	417	419	355	337	344
5	---	---	---	465	456	460	428	422	425	383	355	370
6	---	---	---	476	465	470	431	428	429	386	364	376
7	---	---	---	481	476	479	434	431	432	381	360	368
8	---	---	---	492	481	488	438	425	434	403	381	393
9	---	---	---	502	491	496	448	438	443	415	405	410
10	---	---	---	514	502	511	448	446	447	422	418	419
11	---	---	---	524	514	517	449	446	447	427	422	426
12	---	---	---	529	521	526	451	444	449	430	426	428
13	---	---	---	528	523	525	444	437	441	431	427	429
14	---	---	---	525	515	520	440	438	439	434	430	432
15	---	---	---	515	505	509	447	440	444	434	424	430
16	---	---	---	508	492	503	448	439	444	432	428	430
17	---	---	---	492	485	488	439	430	434	437	431	434
18	---	---	---	492	372	459	426	421	426	437	432	435
19	---	---	---	405	305	364	421	417	419	446	428	436
20	---	---	---	339	301	326	423	420	422	446	421	435
21	491	489	490	344	330	335	428	421	424	424	412	415
22	490	481	485	378	344	361	433	428	430	412	404	408
23	491	480	486	399	378	390	435	415	426	416	408	413
24	495	490	492	401	396	399	416	353	388	427	416	425
25	495	477	492	407	380	392	359	328	340	429	425	427
26	477	424	454	381	365	372	369	334	350	428	397	415
27	529	424	487	367	361	364	392	369	382	425	343	384
28	535	435	499	369	345	357	404	392	399	346	331	336
29	436	412	422	346	339	342	409	404	407	364	346	357
30	440	429	437	375	346	360	408	396	405	381	364	373
31	429	418	423	---	---	---	396	366	380	390	381	388
MONTH	---	---	---	---	---	---	451	328	417	446	331	402

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	397	389	394	425	419	422	432	420	427	383	322	359
2	403	397	399	429	419	424	435	429	432	343	318	328
3	406	401	403	437	426	430	438	431	435	341	315	323
4	424	375	407	440	427	429	440	434	436	340	322	335
5	375	291	331	448	347	399	444	433	437	353	335	341
6	300	226	249	350	336	343	441	433	439	372	353	364
7	301	249	280	353	342	348	450	436	442	384	370	378
8	324	301	313	353	342	347	444	438	440	399	378	382
9	333	324	328	364	349	356	445	440	443	404	388	396
10	340	333	335	384	364	375	450	443	445	407	403	405
11	346	340	343	402	384	394	458	449	452	412	403	407
12	353	346	349	415	402	408	470	451	462	415	404	412
13	358	353	355	422	415	420	470	426	457	416	412	415
14	368	358	363	430	420	426	443	384	426	417	413	415
15	374	368	372	434	429	432	384	341	354	417	317	396
16	378	373	374	439	432	435	366	346	353	317	287	299
17	387	378	382	440	434	437	389	366	378	344	307	324
18	417	387	393	441	434	437	398	370	384	362	340	351
19	417	412	415	442	437	439	398	377	386	369	352	361
20	425	414	419	438	259	411	401	391	397	384	355	364
21	423	418	420	372	344	364	405	400	403	407	384	398
22	420	415	417	371	341	351	405	399	402	412	381	396
23	419	416	418	368	344	354	406	233	335	415	364	402
24	422	416	418	394	368	380	284	211	241	418	401	416
25	422	399	416	421	394	408	326	284	306	420	417	418
26	422	412	418	436	421	429	328	321	324	424	419	422
27	427	418	423	459	436	446	347	321	333	429	326	408
28	424	414	419	480	459	471	365	347	356	348	323	335
29	427	418	421	485	434	465	378	365	372	358	337	346
30	---	---	---	434	423	428	390	377	379	397	358	379
31	---	---	---	423	415	418	---	---	---	394	273	355
MONTH	427	226	378	485	259	407	470	211	396	429	273	375
	JUNE			JULY			AUGUST			SEPTEMBER		
1	317	259	284	451	444	448	460	343	417	449	438	445
2	358	317	340	451	436	442	351	335	340	455	447	451
3	378	358	369	464	440	452	371	351	365	457	453	454
4	388	377	383	468	462	464	399	369	385	458	453	455
5	399	388	395	472	463	468	431	282	388	462	455	458
6	403	397	401	465	453	459	304	252	278	464	458	461
7	410	403	406	458	320	428	332	304	315	466	461	464
8	414	410	411	320	250	270	382	332	360	462	451	455
9	423	414	418	297	251	268	409	382	396	464	456	462
10	423	418	419	337	297	318	426	409	420	466	459	464
11	424	419	421	383	334	360	433	426	430	464	456	458
12	427	422	425	412	383	397	446	433	439	466	460	464
13	425	421	423	417	367	401	452	446	448	460	256	370
14	433	425	430	390	355	374	461	452	457	294	252	266
15	436	431	434	412	390	401	467	460	462	355	294	330
16	435	333	387	434	382	408	479	467	472	406	355	382
17	370	328	353	382	356	365	479	475	477	421	406	415
18	368	351	358	423	368	394	482	476	480	430	421	426
19	395	368	380	448	423	438	486	480	483	435	430	434
20	382	361	367	448	419	438	485	481	484	443	435	440
21	406	368	385	419	411	414	486	480	483	452	443	448
22	418	395	407	417	409	412	491	484	487	470	452	461
23	418	398	411	440	417	431	492	465	484	481	470	476
24	424	416	418	453	440	446	468	377	420	481	478	479
25	461	424	444	457	453	455	388	347	373	485	479	482
26	458	451	454	465	456	458	347	325	332	490	485	488
27	468	457	463	465	448	457	373	333	352	490	484	487
28	471	468	470	450	439	446	388	371	378	484	483	483
29	469	438	453	467	441	459	417	388	402	483	480	481
30	447	395	434	473	462	470	426	416	419	483	478	480
31	---	---	---	463	456	461	438	426	434	---	---	---
MONTH	471	259	405	473	250	416	492	252	415	490	252	444
YEAR	---	---	---									

CUMBERLAND RIVER BASIN

03438000 LITTLE RIVER NEAR CADIZ, KY—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.2	8.1	---	---	7.8	7.7	7.6	7.4	7.9	7.6	8.6	8.2
2	---	---	---	---	7.9	7.8	7.6	7.4	7.8	7.6	8.2	8.0
3	---	---	7.9	7.9	7.9	7.9	7.4	7.3	7.8	7.6	8.2	7.9
4	---	---	7.8	7.7	7.9	7.9	7.4	7.3	7.7	7.6	8.1	7.9
5	---	---	7.8	7.7	7.9	7.9	7.5	7.4	---	---	7.9	7.6
6	---	---	7.8	7.8	8.0	7.9	7.6	7.5	---	---	7.7	7.6
7	---	---	7.8	7.8	8.0	8.0	7.7	7.6	---	---	7.7	7.6
8	---	---	8.0	7.8	8.0	8.0	7.8	7.7	---	---	7.9	7.2
9	---	---	8.0	7.9	---	---	7.8	7.7	---	---	7.9	7.8
10	---	---	8.1	8.0	8.6	8.4	7.9	7.7	---	---	8.1	7.8
11	---	---	8.0	8.0	8.5	8.3	7.9	7.9	---	---	8.2	7.9
12	---	---	8.0	7.9	8.4	8.3	7.9	7.8	---	---	8.3	8.1
13	---	---	8.0	8.0	8.4	8.1	7.9	7.8	---	---	8.4	8.2
14	---	---	8.1	8.0	8.2	8.1	7.9	7.9	---	---	8.4	8.2
15	---	---	8.1	8.0	8.2	8.1	8.0	7.8	---	---	8.4	8.3
16	---	---	8.0	7.9	8.2	7.9	8.0	7.9	---	---	8.5	8.2
17	---	---	8.0	7.9	8.0	7.8	8.0	7.9	---	---	8.6	8.1
18	---	---	7.9	7.4	8.2	7.6	8.0	7.8	---	---	9.0	8.4
19	---	---	7.6	7.4	7.7	7.6	7.9	7.8	8.2	8.1	9.0	8.9
20	---	---	7.6	7.5	7.8	7.6	8.0	7.8	8.2	8.1	9.0	7.8
21	8.2	8.1	7.6	7.5	7.7	7.7	8.0	7.8	8.3	8.1	7.9	7.7
22	8.2	8.1	7.7	7.6	7.7	7.5	8.0	7.8	8.4	8.1	7.8	7.8
23	8.2	8.1	7.8	7.7	7.6	7.2	8.0	7.8	8.4	8.2	8.0	7.8
24	8.2	8.1	7.8	7.7	7.2	7.1	8.1	7.9	8.3	8.1	8.0	7.9
25	8.2	7.8	7.8	7.7	7.2	7.1	8.1	7.7	8.5	8.1	8.0	8.0
26	7.9	7.7	7.7	7.7	7.3	7.1	7.7	7.6	8.5	8.2	8.0	7.9
27	7.8	7.7	7.7	7.6	7.6	7.3	7.6	7.5	8.6	8.2	7.9	7.9
28	7.8	7.8	7.6	7.6	7.6	7.5	7.6	7.5	8.6	8.4	8.2	7.9
29	7.8	7.8	7.6	7.6	7.6	7.5	7.7	7.6	8.6	8.3	8.4	8.2
30	7.8	7.8	7.7	7.6	7.5	7.5	7.8	7.6	---	---	8.4	8.0
31	7.8	7.8	---	---	7.5	7.4	7.9	7.7	---	---	8.5	8.2
MONTH	---	---	---	---	---	---	8.1	7.3	---	---	9.0	7.2
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.7	8.5	7.6	7.5	7.6	7.3	7.9	7.8	7.6	7.3	7.8	7.7
2	8.8	8.6	7.6	7.5	7.7	7.5	7.9	7.8	7.3	7.2	7.8	7.7
3	8.8	8.7	7.6	7.5	7.8	7.7	7.9	7.8	7.3	7.2	7.8	7.7
4	8.8	8.8	7.6	7.5	7.7	7.6	7.9	7.9	7.4	7.2	7.8	7.7
5	8.9	8.8	7.6	7.6	7.7	7.6	7.9	7.9	7.4	7.1	7.8	7.7
6	8.8	8.8	7.7	7.6	7.7	7.7	7.9	7.9	7.2	7.0	7.8	7.7
7	8.8	8.7	7.7	7.7	7.7	7.7	7.9	7.6	7.2	7.2	7.8	7.7
8	8.8	8.6	7.7	7.7	7.7	7.6	7.6	7.6	7.4	7.2	7.8	7.7
9	8.8	8.6	7.8	7.7	7.6	7.6	8.0	7.5	7.4	7.3	7.8	7.7
10	8.8	8.7	7.8	7.7	7.7	7.6	7.7	7.6	7.4	7.3	7.8	7.7
11	8.7	8.6	7.8	7.8	7.7	7.6	7.8	7.7	7.4	7.4	7.8	7.7
12	8.7	8.4	7.8	7.8	7.7	7.6	7.8	7.8	7.5	7.4	7.8	7.7
13	8.5	8.3	7.8	7.7	7.6	7.5	7.8	7.7	7.5	7.5	7.8	7.1
14	8.4	8.2	7.8	7.8	7.5	7.4	7.9	7.7	7.6	7.5	7.4	7.1
15	8.3	8.2	7.8	7.5	7.5	7.5	7.9	7.9	7.6	7.5	7.4	7.3
16	8.4	8.3	7.5	7.4	7.5	7.4	7.9	7.6	7.5	7.4	7.5	7.4
17	8.4	8.2	7.6	7.5	7.6	7.4	7.6	7.6	7.5	7.4	7.6	7.5
18	8.4	7.8	7.6	7.6	7.6	7.5	7.7	7.6	7.5	7.4	7.7	7.6
19	7.8	7.7	7.7	7.5	7.7	7.6	7.8	7.6	8.0	7.4	7.8	7.6
20	7.9	7.7	7.7	7.6	7.7	7.6	7.7	7.6	7.9	7.9	7.8	7.7
21	7.8	7.7	7.9	7.5	7.8	7.7	7.6	7.6	7.9	7.8	7.8	7.7
22	7.7	7.6	7.9	7.8	7.8	7.7	7.6	7.5	7.9	7.9	7.8	7.7
23	7.6	7.3	7.9	7.9	7.8	7.8	7.5	7.5	7.9	7.9	7.8	7.7
24	7.3	7.2	7.9	7.9	7.8	7.8	7.6	7.5	7.9	7.7	7.8	7.7
25	7.4	7.3	8.0	7.9	7.8	7.8	7.5	7.5	7.7	7.6	7.8	7.7
26	7.4	7.4	8.0	7.9	7.9	7.8	7.5	7.4	7.6	7.6	7.8	7.7
27	7.5	7.4	7.9	7.6	8.0	7.9	7.5	7.4	7.7	7.6	7.8	7.7
28	7.6	7.5	7.7	7.6	7.9	7.9	7.6	7.4	7.7	7.6	7.8	7.8
29	7.6	7.6	7.7	7.6	7.9	7.8	7.6	7.6	7.8	7.7	7.9	7.8
30	7.6	7.6	7.8	7.7	7.9	7.8	7.6	7.6	7.8	7.7	7.9	7.8
31	---	---	7.8	7.4	---	---	7.6	7.5	7.8	7.7	---	---
MONTH	8.9	7.2	8.0	7.4	8.0	7.3	8.0	7.4	8.0	7.0	7.9	7.1
YEAR	---	---										

03438000 LITTLE RIVER NEAR CADIZ, KY—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	15.1	14.5	14.8	---	---	---	10.4	9.9	10.2	10.0	9.0	9.4
2	---	---	---	---	---	---	9.9	9.3	9.6	12.0	10.0	11.1
3	---	---	---	16.8	15.6	16.0	10.0	9.5	9.7	13.0	12.0	12.4
4	---	---	---	16.7	14.8	15.7	10.4	9.9	10.1	14.1	13.0	13.6
5	---	---	---	16.7	15.7	16.1	10.4	9.8	10.2	14.0	11.8	12.9
6	---	---	---	15.7	14.2	15.0	9.9	9.5	9.7	11.8	8.9	10.3
7	---	---	---	14.2	12.5	13.5	9.5	8.9	9.2	8.9	7.8	8.0
8	---	---	---	12.6	11.2	11.9	9.6	8.6	9.0	8.1	7.7	7.9
9	---	---	---	11.6	10.3	11.0	11.1	9.6	10.4	8.5	8.1	8.3
10	---	---	---	11.8	10.4	11.1	11.3	10.3	11.0	8.3	8.0	8.1
11	---	---	---	13.0	11.6	12.3	10.3	9.1	9.7	8.1	7.7	7.7
12	---	---	---	14.4	13.0	13.7	9.1	7.9	8.4	8.9	8.0	8.5
13	---	---	---	13.6	11.6	12.8	7.9	7.2	7.6	9.1	8.4	8.8
14	---	---	---	11.6	10.5	10.9	7.4	7.2	7.3	9.0	8.2	8.7
15	---	---	---	10.5	10.2	10.2	8.1	7.3	7.7	9.0	8.5	8.8
16	---	---	---	11.0	10.2	10.6	8.6	8.1	8.4	8.7	7.9	8.3
17	---	---	---	12.3	11.0	11.6	8.5	7.8	8.1	9.7	8.7	9.3
18	---	---	---	13.9	12.3	13.1	8.2	8.0	8.2	9.9	9.1	9.7
19	---	---	---	14.4	13.7	14.1	8.2	7.4	7.8	9.1	7.3	8.2
20	---	---	---	14.0	13.1	13.5	7.4	6.7	6.9	7.3	6.3	6.6
21	16.5	15.7	16.2	13.5	12.9	13.2	6.9	6.2	6.6	7.1	6.5	6.8
22	16.6	15.0	15.6	14.0	12.8	13.4	8.5	6.9	7.7	7.2	6.7	6.9
23	16.1	14.6	15.2	14.4	13.8	14.1	9.6	8.5	9.2	6.7	5.9	6.3
24	15.6	14.0	14.8	14.2	11.8	13.0	9.6	8.7	9.2	7.5	6.4	7.0
25	15.8	14.5	15.2	11.8	10.7	11.0	8.7	8.1	8.3	8.2	7.4	7.6
26	15.4	14.4	15.0	10.8	10.4	10.6	8.2	7.5	7.9	9.7	8.2	9.2
27	14.4	13.4	13.9	11.9	10.8	11.3	8.6	7.7	8.2	9.3	7.8	8.5
28	13.4	12.8	13.2	11.9	10.7	11.3	9.7	8.3	8.8	7.8	6.9	7.2
29	13.3	12.4	12.8	10.7	10.0	10.2	10.4	9.7	10.1	7.5	6.6	7.0
30	14.1	12.5	13.3	10.4	9.7	10.1	10.3	9.6	9.9	7.4	6.3	6.8
31	15.2	13.5	13.9	---	---	---	9.6	8.9	9.2	6.3	5.3	5.7
MONTH	---	---	---	---	---	---	11.3	6.2	8.8	14.1	5.3	8.6
FEBRUARY			MARCH			APRIL			MAY			
1	6.8	5.3	6.0	12.1	11.2	11.5	12.7	12.0	12.4	17.1	16.4	16.7
2	7.9	6.8	7.2	13.1	11.7	12.4	13.3	11.4	12.3	16.7	15.8	16.1
3	8.0	7.7	7.9	12.7	12.2	12.4	13.9	12.1	13.0	15.8	14.6	15.1
4	7.7	6.8	7.2	13.5	12.1	12.8	14.1	12.7	13.3	15.0	13.9	14.5
5	8.6	6.5	7.3	13.6	13.3	13.5	13.6	12.3	13.0	16.3	14.6	15.3
6	7.9	5.2	6.4	13.5	13.0	13.3	14.4	12.4	13.2	17.3	15.6	16.3
7	7.8	7.0	7.5	13.0	12.0	12.4	15.0	13.5	14.1	17.7	16.4	17.1
8	8.3	7.5	7.9	12.3	11.2	11.7	16.4	14.3	15.1	18.1	16.9	17.6
9	8.5	8.0	8.2	11.7	10.5	11.1	16.6	14.6	15.5	18.5	17.3	18.0
10	9.6	8.5	9.0	10.7	9.5	10.2	15.5	14.6	15.1	18.5	17.8	18.2
11	9.8	8.9	9.3	11.1	10.0	10.5	15.5	14.2	14.7	18.9	17.8	18.4
12	10.1	9.6	9.9	10.9	9.9	10.4	14.6	13.3	14.0	19.0	18.3	18.8
13	9.6	8.8	9.1	10.6	9.6	10.2	13.3	10.7	11.6	19.1	18.6	18.8
14	9.4	8.7	9.1	11.8	10.5	11.1	11.1	10.1	10.6	18.8	18.2	18.4
15	9.4	9.0	9.3	11.9	10.5	11.3	12.8	9.6	11.0	18.2	16.9	17.4
16	9.0	8.2	8.7	12.0	11.7	11.8	14.9	12.4	13.5	17.6	17.1	17.3
17	9.5	8.4	9.0	12.5	11.1	11.9	16.6	14.6	15.5	18.0	17.1	17.6
18	9.4	8.5	8.8	13.6	12.0	12.8	17.8	16.1	17.0	19.0	17.5	17.9
19	10.2	8.6	9.6	14.0	12.5	13.2	18.1	17.3	17.7	19.2	18.3	18.7
20	10.9	10.1	10.5	14.0	13.2	13.6	18.6	17.4	17.9	19.7	18.3	19.0
21	10.9	10.2	10.6	13.7	12.3	12.9	18.2	16.9	17.8	19.7	18.7	19.3
22	10.3	9.5	10.0	12.4	11.4	11.9	16.9	16.3	16.5	19.8	18.9	19.4
23	10.2	9.5	9.9	11.8	10.8	11.3	16.4	15.5	15.8	19.8	19.1	19.5
24	10.7	10.1	10.4	13.2	11.4	12.3	16.4	15.5	15.9	19.8	19.3	19.5
25	10.1	9.6	9.8	14.4	12.7	13.6	16.5	15.8	16.1	19.5	18.9	19.2
26	9.8	9.1	9.5	15.8	14.3	15.1	16.5	15.7	16.1	19.7	19.1	19.4
27	9.8	8.4	9.1	16.9	15.6	16.2	16.1	15.1	15.6	20.4	18.6	19.5
28	10.1	8.7	9.5	17.5	16.0	16.8	15.9	14.3	15.1	20.4	19.5	19.8
29	11.2	9.8	10.4	17.1	15.2	16.3	16.3	15.0	15.6	19.6	18.9	19.3
30	---	---	---	15.2	14.1	14.7	16.6	16.0	16.3	20.2	19.2	19.7
31	---	---	---	14.1	12.7	13.3	---	---	---	20.3	18.8	19.6
MONTH	11.2	5.2	8.9	17.5	9.5	12.7	18.6	9.6	14.7	20.4	13.9	18.1

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	9.9	9.7	9.8	---	---	---	---	---	---	13.6	12.8	13.3
2	---	---	---	---	---	---	---	---	---	13.8	12.4	13.0
3	---	---	---	10.4	8.0	8.7	---	---	---	12.9	11.8	12.2
4	---	---	---	8.9	7.7	8.2	---	---	---	12.1	11.4	11.7
5	---	---	---	8.4	7.2	7.7	---	---	---	12.6	11.4	11.9
6	---	---	---	7.5	7.0	7.3	---	---	---	13.5	11.0	12.9
7	---	---	---	8.1	7.1	7.6	---	---	---	14.6	12.8	13.3
8	---	---	---	9.4	7.8	8.6	12.5	10.8	11.5	13.5	11.4	12.5
9	---	---	---	10.4	8.9	9.6	11.5	10.6	11.0	11.2	9.0	10.3
10	---	---	---	10.9	9.4	10.1	10.7	10.0	10.2	---	---	---
11	---	---	---	10.2	9.3	9.7	10.0	9.5	9.7	---	---	---
12	---	---	---	9.4	8.6	9.0	---	---	---	---	---	---
13	---	---	---	10.0	8.4	9.2	---	---	---	---	---	---
14	---	---	---	10.8	9.0	9.9	---	---	---	---	---	---
15	---	---	---	10.6	9.9	10.2	---	---	---	---	---	---
16	---	---	---	10.7	9.6	10.1	---	---	---	11.4	8.5	9.2
17	---	---	---	10.4	8.4	10.2	---	---	---	9.3	7.7	8.3
18	---	---	---	8.5	7.5	8.1	11.9	11.5	11.7	8.4	7.8	8.1
19	---	---	---	7.6	7.1	7.3	12.8	11.6	12.1	10.4	7.3	8.3
20	---	---	---	7.8	7.3	7.7	13.9	12.3	12.9	10.0	7.0	8.8
21	11.3	10.2	10.8	7.9	7.5	7.7	13.8	11.8	12.8	9.0	7.2	8.4
22	11.2	9.8	10.4	7.8	7.0	7.5	13.5	11.6	12.6	8.3	6.6	7.6
23	11.3	9.9	10.4	---	---	---	13.4	11.9	12.2	8.5	6.5	7.3
24	11.4	10.0	10.5	---	---	---	12.7	12.1	12.3	8.1	7.1	7.6
25	11.1	9.9	10.4	---	---	---	13.4	12.2	12.6	8.1	6.8	7.3
26	10.7	9.5	10.2	---	---	---	13.6	12.0	13.0	---	---	---
27	11.4	9.5	10.9	---	---	---	14.1	12.6	13.4	---	---	---
28	11.1	10.8	10.9	---	---	---	14.4	13.0	13.6	---	---	---
29	12.0	10.9	11.4	---	---	---	14.2	12.2	12.9	---	---	---
30	12.4	11.4	11.8	---	---	---	13.4	12.3	12.9	---	---	---
31	12.1	11.2	11.5	---	---	---	13.9	12.4	13.2	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	15.4	12.5	13.4	13.7	11.6	12.8	---	---	---
2	---	---	---	15.8	11.1	13.3	14.7	12.0	13.5	---	---	---
3	---	---	---	14.0	10.9	11.9	14.8	12.5	13.7	---	---	---
4	---	---	---	12.7	10.3	11.4	15.3	12.3	13.9	---	---	---
5	---	---	---	11.1	10.0	10.5	15.9	12.8	14.4	---	---	---
6	---	---	---	11.4	9.8	10.6	16.7	13.3	14.7	---	---	---
7	---	---	---	11.8	10.3	11.1	---	---	---	---	---	---
8	---	---	---	13.0	10.6	11.8	16.6	12.2	14.5	---	---	---
9	---	---	---	12.1	11.2	11.7	16.6	12.3	14.2	---	---	---
10	---	---	---	14.0	11.8	12.9	---	---	---	---	---	---
11	---	---	---	18.7	---	15.3	---	---	---	---	---	---
12	---	---	---	18.5	---	17.7	---	---	---	---	---	---
13	---	---	---	17.1	13.6	14.9	10.6	8.9	9.7	---	---	---
14	---	---	---	14.7	12.6	13.6	11.2	10.6	10.8	---	---	---
15	---	---	---	14.6	12.6	13.7	11.4	10.9	11.2	---	---	---
16	---	---	---	14.1	11.9	12.6	11.5	10.6	11.0	---	---	---
17	---	---	---	14.3	11.2	13.0	14.3	10.6	12.2	---	---	---
18	---	---	---	14.6	11.9	13.2	14.5	12.0	13.2	---	---	---
19	13.1	11.7	12.6	13.8	11.1	12.7	12.8	10.3	11.7	---	---	---
20	13.1	11.1	12.2	13.2	9.8	11.5	12.7	10.1	11.2	---	---	---
21	14.1	11.6	12.9	10.1	6.8	9.1	10.1	8.8	9.3	10.0	8.4	8.7
22	14.8	12.0	13.5	6.8	5.1	5.8	9.3	8.7	9.0	9.5	8.6	9.1
23	14.9	12.1	13.6	9.1	5.6	6.6	9.7	8.6	9.2	9.7	9.0	9.4
24	14.1	12.0	13.1	10.2	7.3	9.3	9.9	8.8	9.5	9.9	9.1	9.5
25	15.7	12.1	14.1	10.2	8.6	9.5	10.2	9.9	10.0	10.3	9.4	9.8
26	15.4	12.6	14.0	10.2	8.0	9.1	10.2	9.8	10.0	10.4	9.4	9.9
27	16.7	12.7	14.8	9.7	8.2	8.9	---	---	---	10.0	8.0	9.2
28	17.0	12.6	15.2	11.2	8.0	9.9	---	---	---	8.7	8.0	8.5
29	17.0	13.0	15.1	11.1	9.5	10.4	---	---	---	9.1	7.6	8.6
30	---	---	---	11.8	10.4	11.1	---	---	---	9.9	8.4	9.7
31	---	---	---	12.7	11.0	11.9	---	---	---	9.8	7.8	9.1
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

TURBIDITY, WATER, UNFILTERED, NEPHELOMETRIC TURBIDITY UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

[illegible]

03438500 CUMBERLAND RIVER AT SMITHLAND, KY

(National stream-quality accounting network station)

LOCATION.--Lat 37°08' 55", long 88°23' 57", Livingston County, Hydrologic Unit 05130205, 1.0 mi (1.6 km) downstream from McCormick Creek, 27.8 mi (44.7 km) downstream from gaging station near Grand Rivers, and at mile 2.8 (4.5 km).

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950-65, 1968-1980, 2002 to current water year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES.--October 1949 to July 1966, July 1967 to August 1980.

REMARKS.--Records of daily discharge are published for gaging station near Grand Rivers (station 03438220). Flow is completely regulated. Barkley-Kentucky Canal (station 03438190) diverts waters from or to Kentucky Lake in the Tennessee River Basin.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
DEC 04...	1240	Environmental	43,100	18	0.060	0.045	9.9	88	8.0	244	10.0	120
DEC 04...	1250	Replicate	--	--	--	--	--	--	--	--	--	--
FEB 05...	1340	Environmental	54,800	7.3	.051	.037	14.2	111	8.2	233	5.0	110
FEB 05...	1348	Field Blank	--	--	<.004	<.004	--	--	--	--	--	--
MAR 25...	1300	Environmental	34,400	14	.054	.041	12.7	118	8.6	205	12.0	97
MAR 25...	1310	Replicate	--	12	.054	.041	--	--	--	--	--	52
MAY 27...	1320	Environmental	60,000	11	.057	.043	9.2	113	8.2	227	25.5	110
MAY 27...	1328	Field Blank	--	--	--	--	--	--	--	--	--	--
JUN 24...	1230	Environmental	12,300	12	.061	.046	7.8	97	8.1	203	27.5	91
JUN 24...	1238	Field Blank	--	--	--	--	--	--	--	--	--	--
SEP 02...	1230	Environmental	42,600	15	.058	.043	8.3	101	8.0	198	26.0	87

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Calcium water, fltrd, mg/L (00915)	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)
DEC 04...	39.2	6.15	1.82	4.36	90	110	4.95	<0.2	4.28	21.9	139	0.16	0.30
DEC 04...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 05...	35.3	5.42	1.70	4.83	88	108	5.58	<.2	3.50	18.8	135	.18	.36
FEB 05...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 25...	30.7	4.87	1.51	3.71	80	89	4.83	<.2	2.35	17.1	128	.13	.44
MAR 25...	16.9	2.41	.77	2.02	80	90	4.60	<.2	1.32	15.8	124	.13	.43
MAY 27...	35.9	5.35	1.48	3.99	88	108	5.06	<.2	2.26	18.8	135	.24	.43
MAY 27...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 24...	28.5	4.76	1.71	5.09	75	91	6.09	<.2	2.46	18.3	128	.23	.54
JUN 24...	0.03	<0.008	--	E0.08	--	--	--	--	0.07	--	--	--	--
SEP 02...	25.9	5.43	1.74	6.40	63	76	6.78	<.2	4.69	18.6	103	.21	.48

03438500 CUMBERLAND RIVER AT SMITHLAND, KY—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Ammonia water, fltrd, mg/L as N (00608)	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 sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Pheophytin a, phyto- plank- ton, ug/L (62360)	Chlorophyll a phyto- plank- ton, fluoro, ug/L (70953)
DEC 04... 04...	<0.04 --	0.62 --	E0.005 --	0.14 --	0.038 --	0.049 --	0.10 --	0.8 --	<0.1 --	0.8 --	2.2 --	11.3 --	10.4 --
FEB 05... 05...	<.04 --	.58 --	E.004 --	.14 <.02	.018 --	.023 --	.08 --	.9 <.1	<.1 <.1	.9 <.1	1.9 0.4	6.2 --	6.9 --
MAR 25... 25...	<.04 <.04	.46 .46	E.006 E.006	.25 .27	E.005 <.006	.012 .012	.08 .08	1.5 1.6	<.1 <.1	1.5 1.6	2.1 2.2	15.1 15.3	17.0 17.9
MAY 27... 27...	E.02 --	.42 --	.012 --	.24 --	<.006 --	.023 --	.05 --	1.5 --	<.1 --	1.4 --	2.6 --	13.4 --	16.1 --
JUN 24... 24...	.06 --	.14 --	E.007 --	.30 --	.011 --	.022 --	.09 --	1.6 --	<.1 --	1.6 --	2.5 --	16.6 --	20.9 --
SEP 02... 02...	<.04 --	.11 --	.028 --	.32 --	.017 --	.026 --	.11 --	1.9 --	<.1 --	1.9 --	2.4 --	15.9 --	31.4 --

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, 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)
DEC 04... 04...	2 --	<0.20 --	0.4 --	22 --	<0.06 --	26 --	<0.04 --	<0.8 --	0.142 --	0.7 --	E5 --	<0.08 --	1.3 --
FEB 05... 05...	3 --	<.20 --	.4 --	22 --	<.06 --	20 --	<.04 --	<.8 --	.143 --	.7 --	9 --	<.08 --	1.0 --
MAR 25... 25...	4 3	<.20 <.20	.3 E.2	20 11	<.06 <.06	17 9	<.04 <.04	<.8 <.8	.125 .071	.7 .6	9 E4	<.08 .08	0.8 E.5
MAY 27... 27...	5 --	<.20 --	.5 --	21 --	<.06 --	23 --	<.04 --	1.0 --	.152 --	.8 --	E4 --	<.08 --	.9 --
JUN 24... 24...	5 <2	<.20 <.20	.7 <.2	24 <0.2	<.06 <.06	26 <8	<.04 <.04	<.8 <.8	.149 <.014	.9 <.4	<6 <6	<.08 <.08	1.1 <.6
SEP 02... 02...	4 --	<.20 --	.9 --	20 --	<.06 --	33 --	<.04 --	<.8 --	.134 --	.9 --	<6 --	<.08 --	1.2 --

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	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)
DEC 04... 04...	0.3 --	0.5 --	0.97 --	<0.4 --	<0.2 --	125 --	0.8 --	E0.5 --	<0.006 --	E0.007 --	<0.006 --	<0.005 --	<0.005 --
FEB 05... 05...	1.6 --	.5 --	.93 --	<.4 --	<.2 --	107 --	.7 --	E.3 --	<.006 --	E.024 --	<.006 --	<.005 --	<.005 --
MAR 25... 25...	.5 1.5	.5 E.3	1.01 .57	E.2 <.4	<.2 <.2	96.7 52.0	1.5 .8	<.6 1.8	<.006 <.006	E.020 E.020	<.006 <.006	<.005 <.005	<.005 <.005
MAY 27... 27...	.3 --	.6 --	1.09 --	<.4 --	<.2 --	116 --	.8 --	<.6 --	<.006 <.006	E.022 <.006	.008 <.006	<.005 <.005	<.005 <.005
JUN 24... 24...	.3 <.2	.9 <.4	.94 <.06	E.3 <.4	<.2 <.2	92.9 <0.40	.9 <.1	E.4 <.6	<.006 --	E.053 --	<.006 --	<.005 --	<.005 --
SEP 02... 02...	.2 --	1.1 --	.66 --	E.3 --	<.2 --	90.7 --	1.0 --	<.6 --	<.006 --	E.018 --	<.006 --	<.005 --	<.005 --

03438500 CUMBERLAND RIVER AT SMITHLAND, KY—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Atrazine, water, fltrd, ug/L (39632)	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)
DEC 04... 04...	0.115 --	<0.050 --	<0.010 --	<0.004 --	<0.041 --	<0.020 --	<0.005 --	<0.006 --	<0.018 --	<0.003 --	<0.005 --	<0.009 --	<0.02 --
FEB 05... 05...	.054 --	<.050 --	<.010 --	<.004 --	<.041 --	<.020 --	<.005 --	<.006 --	<.018 --	<.003 --	<.005 --	<.009 --	<.02 --
MAR 25... 25...	.101 .101	<.050 <.050	<.010 <.010	<.004 <.004	<.041 <.041	<.020 <.020	<.005 <.005	<.006 <.006	<.018 <.018	<.003 <.003	<.005 <.005	<.009 <.009	<.02 <.02
MAY 27... 27...	.455 <.007	<.050 <.050	<.010 <.010	<.006 <.004	<.041 <.041	<.020 <.020	<.005 <.005	<.006 <.006	<.018 <.018	<.003 <.003	<.005 <.005	<.009 <.009	<.02 <.02
JUN 24... 24...	.332 --	<.050 --	<.010 --	<.004 --	<.041 --	<.020 --	<.005 --	<.006 --	<.018 --	<.003 --	<.005 --	<.009 --	<.02 --
SEP 02...	.068	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	EPTC, water, fltrd, 0.7u GF ug/L (82668)	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)	Mala-thion, 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)
DEC 04... 04...	<0.004 --	<0.009 --	<0.005 --	<0.003 --	<0.004 --	<0.035 --	<0.027 --	<0.015 --	E0.010 --	<0.006 --	<0.003 --	<0.007 --	<0.003 --
FEB 05... 05...	<.004 --	<.009 --	<.005 --	<.003 --	<.004 --	<.035 --	<.027 --	<.015 --	E.009 --	<.006 --	<.003 --	<.007 --	<.003 --
MAR 25... 25...	<.004 <.004	<.009 <.009	<.005 <.005	<.003 <.003	<.004 <.004	<.035 <.035	<.027 <.027	<.015 <.015	E.008 E.008	<.006 <.006	<.003 <.003	<.007 <.007	<.003 <.003
MAY 27... 27...	<.004 <.004	<.009 <.009	<.005 <.005	<.003 <.003	<.004 <.004	<.035 <.035	<.027 <.027	<.015 <.015	.031 <.013	<.006 <.006	<.003 <.003	<.007 <.016	<.003 <.003
JUN 24... 24...	<.004 --	<.009 --	<.005 --	<.003 --	<.004 --	<.035 --	<.027 --	<.015 --	.020 --	<.006 --	<.003 --	<.007 --	<.003 --
SEP 02...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	E.006	<.006	<.003	<.007	<.003

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Para-thion, water, fltrd, ug/L (39542)	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)
DEC 04... 04...	<0.010 --	<0.004 --	<0.022 --	<0.011 --	0.01 --	<0.004 --	<0.025 --	<0.011 --	<0.02 --	0.030 --	E0.01 --	<0.034 --	<0.02 --
FEB 05... 05...	<0.010 --	<0.004 --	<0.022 --	<0.011 --	.01 --	<0.004 --	<0.025 --	<0.011 --	<.02 --	.025 --	<.02 --	<.034 --	<.02 --
MAR 25... 25...	<0.010 <0.010	<0.004 <0.004	<0.022 <0.022	<0.011 <0.011	.01 .01	<0.004 <0.004	<0.025 <0.025	<0.011 <0.011	<.02 <.02	.033 .033	E.01 E.01	<.034 <.034	<.02 <.02
MAY 27... 27...	<0.010 <0.010	<0.004 <0.004	<0.022 <0.022	<0.011 <0.011	.02 <.01	<0.004 <0.004	<0.025 <0.025	<0.011 <0.011	<.02 <.02	.080 <.005	E.01 <.02	<.034 <.034	<.02 <.02
JUN 24... 24...	<0.010 --	<0.004 --	<0.022 --	<0.011 --	.03 --	<0.004 --	<0.025 --	<0.011 --	<.02 --	.036 --	<.02 --	<.034 --	<.02 --
SEP 02...	<0.010	<0.004	<0.022	<0.011	<.02	<0.004	<0.025	<0.011	<.02	.012	<.02	<.034	<.02

CUMBERLAND RIVER BASIN

03438500 CUMBERLAND RIVER AT SMITHLAND, KY—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	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)	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						
04...	<0.010	<0.002	<0.009	0.23	97	10
04...	--	--	--	--	97	12
FEB						
05...	<.010	<.002	<.009	.23	86	13
05...	--	--	--	--	--	--
MAR						
25...	<.010	<.002	<.009	.23	99	15
25...	<.010	<.002	<.009	.14	99	15
MAY						
27...	<.010	<.002	<.009	.23	98	14
27...	<.010	<.002	<.009	--	--	--
JUN						
24...	<.010	<.002	<.009	.21	98	52
24...	--	--	--	<.04	--	--
SEP						
02...	<.010	<.002	<.009	.19	78	32

E--Laboratory estimated value.

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

[illegible]

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Ammonia water, fltrd, mg/L as N (00608)	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 sediment total, mg/L (00694)	Inorganic carbon, suspnd sediment total, mg/L (00688)	Organic carbon, suspnd sediment total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Phytoplankton, ug/L (62360)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)
NOV 06...	<0.04	0.39	0.032	0.04	0.043	0.055	0.07	0.3	<0.1	0.3	2.1	3.0	1.8
NOV 06...	<0.10	<0.16	<0.02	--	<0.06	--	--	--	--	--	--	--	--
NOV 06...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	<.04	.47	E.004	.10	.024	.029	.05	.8	<.1	.8	1.9	3.6	8.6
MAR 11...	.04	.58	E.007	.10	.037	.046	.11	.7	<.1	.7	2.1	3.6	2.2
APR 21...	<.04	.23	E.006	.20	<.006	.011	.05	1.1	<.1	1.1	2.2	9.4	14.6
APR 21...	<.04	.23	E.006	.21	<.006	.011	.05	1.1	<.1	1.1	2.3	9.8	11.6
MAY 20...	E.03	.10	.008	.43	E.003	.012	.05	1.9	<.1	1.9	2.7	11.5	16.5
JUL 22...	<.04	E.05	.008	.13	.011	.022	.05	.9	<.1	.9	2.1	10.9	9.5
JUL 22...	--	--	--	<.02	--	--	--	<.1	<.1	<.1	0.6	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Mangan- ese, water, fltrd, ug/L (01056)	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 .07u GF (82660)	CIAI, 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)
NOV 06... 06... 06...	.07 <.2 --	1.0 <0.4 --	.070 <.06 --	<0.4 <.4 --	<0.2 <.2 --	65.7 <0.40 --	1.2 <0.1 --	<0.6 <.6 --	<0.006 -- --	E0.004 -- --	<0.006 -- --	<0.005 -- --	<0.005 -- --
JAN 22...	6.8	1.3	.83	E.3	<.2	66.4	.6	E.6	<.006	E.011	<.006	<.005	<.005
MAR 11...	1.0	E.4	.73	<.4	<.2	58.0	.8	<.6	<.006	E.010	<.006	<.005	<.005
APR 21... 21... 21...	.5 .5 .5	.6 .6 .6	.64 .64 .64	<.4 <.4 <.4	<.2 <.2 <.2	78.1 76.8 76.8	.5 .7 .7	<.6 E.4 E.4	<.006 <.006 <.006	E.016 E.016 E.016	E.006 .006 .006	<.005 <.005 <.005	<.005 <.005 <.005
MAY 20...	.4	.6	.58	<.4	<.2	52.5	.5	<.6	<.006	E.020	.008	<.005	<.005
JUL 22... 22... 22...	.5 --	1.6 --	.77 --	<.4 --	<.2 --	57.1 --	.9 --	E.5 --	<.006 --	E.016 --	<.006 --	<.005 --	<.005 --

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

Ethal- flur	Etho-	Methyl para	Meli-
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[illegible]

Reb- meth-	Pendi- meth-	Propy-	Pro-	Propar-	Tebu-
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[illegible]

TENNESSEE RIVER BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	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)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concent- ration mg/L (80154)
NOV						
06...	<0.010	<0.002	<0.009	0.15	98	8
06...	--	--	--	<.04	--	--
06...	--	--	--	--	98	7
JAN						
22...	<.010	<.002	<.009	.18	98	5
MAR						
11...	<.010	<.002	<.009	.15	99	23
APR						
21...	<.010	<.002	<.009	.18	97	7
21...	<.010	<.002	<.009	.18	96	8
MAY						
20...	<.010	<.002	<.009	.08	96	13
JUL						
22...	<.010	<.002	<.009	.05	95	11
22...	--	--	--	--	--	--

E--Laboratory estimated value.

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

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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 record, 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)
Feb 6	0000	*5,300	*14.30	May 15	1030	4,020	13.53
Mar 20	2300	4,150	13.62	Jun 16	0830	4,770	14.01
Apr 25	1230	4,700	13.97				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	25	66	65	52	65	51	112	106	50	15	13
2	9.8	23	50	455	67	75	46	104	55	78	14	13
3	9.5	22	46	191	288	94	43	116	53	40	13	13
4	11	22	52	119	132	179	40	98	53	34	14	12
5	9.2	30	49	369	2,670	244	38	67	49	25	275	11
6	9.0	28	45	144	1,800	480	36	53	46	27	15	11
7	9.5	24	37	90	298	137	35	45	43	68	9.9	11
8	9.9	21	34	75	159	89	34	40	40	25	8.2	10
9	10	18	33	75	123	70	31	35	61	21	7.8	10
10	11	20	94	63	107	54	29	33	84	25	7.2	10
11	11	25	88	55	94	50	28	60	39	256	7.1	9.5
12	11	28	47	52	90	46	53	41	e90	62	7.0	9.0
13	10	35	36	49	80	41	172	77	293	29	6.7	10
14	19	21	48	46	71	40	121	125	e50	23	6.3	33
15	15	51	45	44	64	e39	77	1,590	e220	20	6.2	14
16	12	65	39	41	56	65	53	300	3,280	18	6.0	11
17	18	37	33	40	52	57	44	128	197	19	5.9	9.8
18	18	297	31	128	e47	60	37	88	101	17	6.0	8.5
19	13	350	30	112	e46	51	34	67	104	17	7.6	7.8
20	13	94	26	60	e56	1,170	32	54	57	16	13	7.6
21	14	48	24	47	e50	e460	38	46	45	16	21	7.9
22	16	36	25	44	e45	e238	239	41	41	15	8.1	8.0
23	21	33	640	40	e42	e150	1,190	36	37	16	176	8.1
24	20	838	328	39	40	93	434	33	33	15	162	8.2
25	126	153	114	603	37	76	2,810	31	59	17	69	7.8
26	865	76	78	484	35	64	358	29	42	17	45	7.4
27	133	921	61	261	33	56	149	28	28	15	50	7.2
28	49	702	54	134	31	50	101	37	e23	15	28	7.2
29	35	180	86	93	30	77	77	28	23	14	18	7.0
30	29	96	158	78	---	73	127	35	146	18	15	6.9
31	27	---	90	60	---	61	---	907	---	28	14	---
TOTAL	1,573.9	4,319	2,587	4,156	6,695	4,504	6,557	4,484	5,498	1,056	1,057.0	309.9
MEAN	50.8	144	83.5	134	231	145	219	145	183	34.1	34.1	10.3
MAX	865	921	640	603	2,670	1,170	2,810	1,590	3,280	256	275	33
MIN	9.0	18	24	39	30	39	28	28	23	14	5.9	6.9
CFSM	0.38	1.07	0.62	1.00	1.72	1.08	1.63	1.08	1.37	0.25	0.25	0.08
IN.	0.44	1.20	0.72	1.15	1.86	1.25	1.82	1.24	1.53	0.29	0.29	0.09

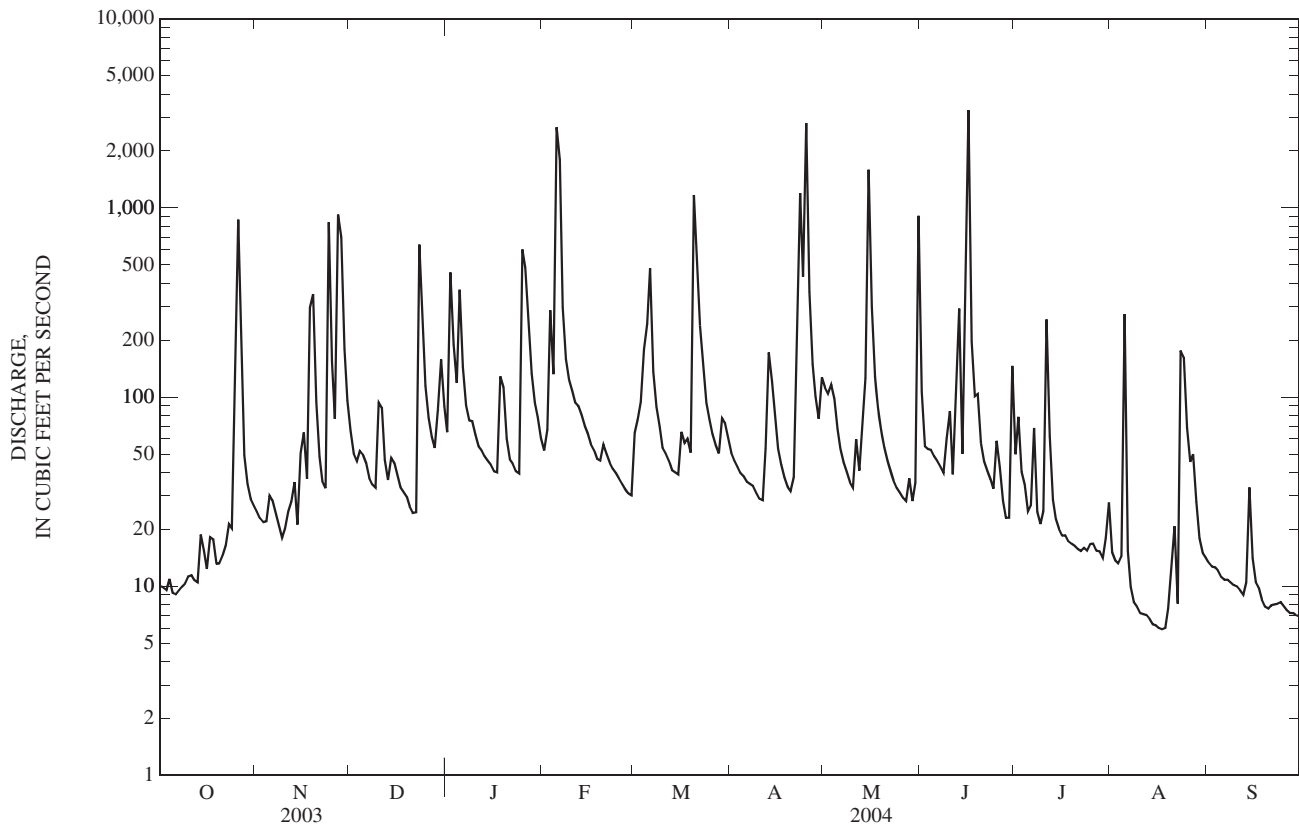
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2004, BY WATER YEAR (WY)

MEAN	58.0	182	336	216	404	270	234	253	128	66.0	42.7	41.4
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 2003 CALENDAR YEAR			FOR 2004 WATER YEAR			WATER YEARS 1983 - 2004	
ANNUAL TOTAL	65,750.8			42,796.8			185	
ANNUAL MEAN	180			117			405	2002
HIGHEST ANNUAL MEAN							69.8	1987
LOWEST ANNUAL MEAN							14,000	Mar 2, 1997
HIGHEST DAILY MEAN	5,020	May	5	3,280	Jun	16	1.6	Aug 29, 1983
LOWEST DAILY MEAN	9.0	Oct	6	5.9	Aug	17	1.7	Aug 31, 1983
ANNUAL SEVEN-DAY MINIMUM	9.7	Oct	2	6.3	Aug	12	23,300	Mar 2, 1997
MAXIMUM PEAK FLOW				5,300	Feb	6	18.35	Mar 2, 1997
MAXIMUM PEAK STAGE				14.30	Feb	6	1.38	
ANNUAL RUNOFF (CFSM)	1.34			0.873			18.73	
ANNUAL RUNOFF (INCHES)	18.25			11.88			307	
10 PERCENT EXCEEDS	337			193			33	
50 PERCENT EXCEEDS	43			42			5.9	
90 PERCENT EXCEEDS	13			10				

e Estimated



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)
June 16	0230	*1,340	*10.21	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

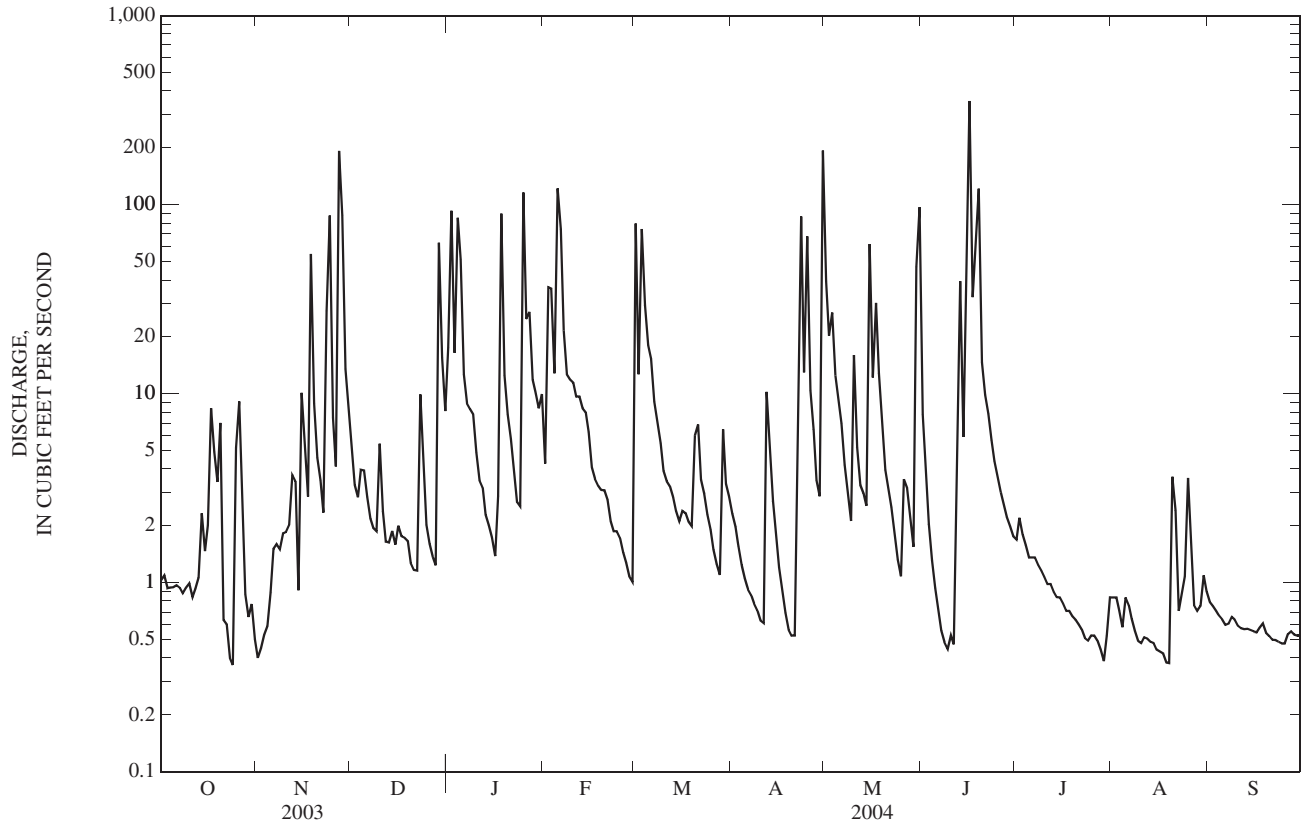
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	0.40	5.1	17	4.3	79	2.3	39	7.7	1.7	0.84	0.79
2	1.1	0.45	3.3	93	37	13	2.0	20	4.0	2.2	0.84	0.75
3	0.94	0.53	2.8	16	36	74	1.6	27	2.1	1.8	0.71	0.71
4	0.94	0.59	4.0	85	13	30	1.2	12	1.3	1.6	0.58	0.67
5	0.95	0.89	3.9	51	122	18	1.1	9.1	0.94	1.4	0.84	0.64
6	0.97	1.5	2.8	13	74	15	0.92	7.0	0.71	1.4	0.76	0.60
7	0.94	1.6	2.2	8.9	22	9.1	0.86	4.2	0.56	1.4	0.64	0.61
8	0.88	1.5	1.9	8.3	13	7.0	0.78	3.0	0.49	1.2	0.56	0.66
9	0.94	1.8	1.9	7.8	12	5.5	0.72	2.1	0.45	1.2	0.49	0.64
10	0.99	1.9	5.4	4.9	11	3.9	0.63	16	0.53	1.1	0.48	0.59
11	0.84	2.0	2.4	3.5	9.7	3.4	0.61	5.2	0.47	0.99	0.51	0.58
12	0.93	3.7	1.7	3.2	9.7	3.2	10	3.3	2.8	0.99	0.51	0.57
13	1.1	3.4	1.6	2.3	8.4	2.8	4.8	3.0	39	0.89	0.49	0.57
14	2.3	0.91	1.9	2.0	7.9	2.4	2.7	2.5	5.9	0.84	0.48	0.56
15	1.5	10	1.6	1.7	6.3	2.1	1.8	62	41	0.84	0.44	0.55
16	2.0	5.2	2.0	1.4	4.1	2.4	1.2	12	352	0.78	0.43	0.55
17	8.4	2.9	1.8	2.9	3.5	2.3	0.90	30	32	0.71	0.42	0.58
18	4.9	55	1.7	89	3.3	2.1	0.69	13	61	0.71	0.38	0.61
19	3.4	8.9	1.7	13	3.1	2.0	0.56	7.5	121	0.66	0.38	0.54
20	7.0	4.6	1.3	7.8	3.1	6.0	0.53	4.0	15	0.64	3.6	0.52
21	0.64	3.5	1.2	5.8	2.7	6.9	0.53	3.1	9.9	0.60	2.4	0.50
22	0.60	2.3	1.2	4.1	2.1	3.5	18	2.5	7.8	0.57	0.71	0.50
23	0.40	27	9.9	2.7	1.9	3.0	86	1.8	5.7	0.51	0.87	0.49
24	0.37	87	4.5	2.5	1.9	2.3	13	1.3	4.4	0.49	1.1	0.48
25	5.2	7.4	2.0	116	1.7	1.9	68	1.1	3.6	0.53	3.6	0.48
26	9.1	4.1	1.6	25	1.4	1.5	10	3.5	3.0	0.53	1.4	0.53
27	2.3	192	1.4	27	1.3	1.3	6.5	3.2	2.6	0.49	0.76	0.55
28	0.87	88	1.2	12	1.1	1.1	3.5	2.2	2.2	0.44	0.71	0.53
29	0.66	13	63	10	1.0	6.5	2.9	1.6	2.0	0.38	0.75	0.53
30	0.77	8.8	16	8.4	---	3.3	193	47	1.8	0.52	1.1	0.53
31	0.50	---	8.1	9.9	---	2.8	---	97	---	0.84	0.90	---
TOTAL	63.43	540.87	161.1	655.1	418.5	317.3	437.33	446.2	731.95	28.95	28.68	17.41
MEAN	2.05	18.0	5.20	21.1	14.4	10.2	14.6	14.4	24.4	0.93	0.93	0.58
MAX	9.1	192	63	116	122	79	193	97	352	2.2	3.6	0.79
MIN	0.37	0.40	1.2	1.4	1.0	1.1	0.53	1.1	0.45	0.38	0.38	0.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2004, BY WATER YEAR (WY)

MEAN	3.50	15.1	28.1	23.2	35.5	30.3	29.8	20.5	10.5	8.07	2.78	4.13
MAX	19.4	70.8	105	65.8	160	109	121	102	53.8	37.3	13.9	50.1
(WY)	(1986)	(1997)	(1983)	(2000)	(1989)	(1997)	(1973)	(2002)	(1998)	(1983)	(1982)	(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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1972 - 2004	
ANNUAL TOTAL	7,227.40		3,846.82		17.5	
ANNUAL MEAN	19.8		10.5		37.9	
HIGHEST ANNUAL MEAN					6.54	
LOWEST ANNUAL MEAN					1,910	
HIGHEST DAILY MEAN	711	Jun 11	352	Jun 16	1,910	Jan 3, 2000
LOWEST DAILY MEAN	0.37	Oct 24	0.37	Oct 24	0.09	Nov 13, 1971
ANNUAL SEVEN-DAY MINIMUM	0.48	Aug 20	0.43	Aug 13	0.10	Nov 10, 1971
MAXIMUM PEAK FLOW			1,340	Jun 16	5,990	Sep 5, 1985
MAXIMUM PEAK STAGE			10.21	Jun 16	15.86	Sep 5, 1985
INSTANTANEOUS LOW FLOW					0.06	Nov 14, 1971
10 PERCENT EXCEEDS	39		21		28	
50 PERCENT EXCEEDS	2.9		2.0		2.2	
90 PERCENT EXCEEDS	0.59		0.53		0.45	



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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	282,000	226,000	593,000	474,000	286,000	270,000	303,000	339,000	575,000	319,000	227,000	211,000
2	254,000	212,000	627,000	483,000	269,000	231,000	315,000	370,000	606,000	234,000	269,000	225,000
3	249,000	208,000	e633,000	480,000	262,000	244,000	331,000	404,000	630,000	e203,000	289,000	204,000
4	232,000	201,000	e625,000	487,000	298,000	294,000	338,000	424,000	635,000	176,000	255,000	e173,000
5	210,000	195,000	e540,000	528,000	336,000	357,000	347,000	416,000	627,000	152,000	223,000	e139,000
6	214,000	149,000	e462,000	555,000	e460,000	410,000	375,000	391,000	629,000	156,000	199,000	e105,000
7	217,000	e143,000	e430,000	590,000	e675,000	450,000	398,000	331,000	632,000	176,000	200,000	e108,000
8	205,000	e212,000	e415,000	623,000	725,000	474,000	416,000	255,000	620,000	159,000	209,000	117,000
9	197,000	e219,000	362,000	661,000	774,000	631,000	411,000	221,000	587,000	157,000	208,000	144,000
10	e182,000	244,000	354,000	694,000	823,000	696,000	371,000	228,000	550,000	175,000	165,000	191,000
11	e159,000	242,000	360,000	723,000	855,000	724,000	295,000	200,000	486,000	165,000	e120,000	211,000
12	e139,000	237,000	374,000	750,000	875,000	710,000	197,000	166,000	389,000	146,000	e90,000	263,000
13	e137,000	229,000	365,000	772,000	869,000	709,000	167,000	151,000	294,000	169,000	e98,000	342,000
14	e158,000	258,000	377,000	786,000	838,000	714,000	198,000	131,000	287,000	190,000	e115,000	414,000
15	e162,000	283,000	409,000	788,000	823,000	708,000	275,000	160,000	356,000	191,000	e110,000	465,000
16	e174,000	317,000	434,000	773,000	786,000	693,000	339,000	238,000	397,000	203,000	e92,000	489,000
17	e207,000	381,000	437,000	739,000	739,000	646,000	384,000	276,000	411,000	212,000	e99,000	453,000
18	e200,000	452,000	455,000	697,000	646,000	532,000	423,000	290,000	414,000	190,000	e96,000	385,000
19	194,000	503,000	450,000	639,000	502,000	360,000	475,000	249,000	389,000	190,000	e88,000	326,000
20	198,000	497,000	460,000	566,000	337,000	208,000	503,000	225,000	373,000	191,000	e82,000	382,000
21	210,000	433,000	463,000	495,000	269,000	213,000	518,000	255,000	384,000	e150,000	e90,000	488,000
22	218,000	410,000	460,000	445,000	283,000	270,000	525,000	278,000	388,000	e127,000	e122,000	543,000
23	202,000	444,000	449,000	423,000	292,000	294,000	549,000	278,000	382,000	e129,000	e160,000	554,000
24	155,000	508,000	417,000	400,000	290,000	296,000	565,000	298,000	370,000	140,000	226,000	538,000
25	116,000	527,000	382,000	357,000	303,000	311,000	531,000	301,000	368,000	138,000	233,000	510,000
26	146,000	559,000	376,000	322,000	313,000	316,000	497,000	303,000	332,000	128,000	242,000	515,000
27	176,000	594,000	398,000	298,000	318,000	298,000	459,000	377,000	311,000	115,000	249,000	518,000
28	185,000	615,000	425,000	289,000	316,000	290,000	418,000	423,000	355,000	92,800	219,000	486,000
29	182,000	612,000	451,000	271,000	306,000	285,000	375,000	432,000	365,000	118,000	195,000	383,000
30	186,000	598,000	472,000	282,000	---	281,000	337,000	482,000	347,000	212,000	207,000	138,000
31	217,000	---	470,000	291,000	---	284,000	---	532,000	---	222,000	207,000	---
TOTAL	5,963,000	10,708,000	13,925,000	16,681,000	14,868,000	13,199,000	11,635,000	9,424,000	13,489,000	5,325,800	5,384,000	10,020,000
MEAN	192,400	356,900	449,200	538,100	512,700	425,800	387,800	304,000	449,600	171,800	173,700	334,000
MAX	282,000	615,000	633,000	788,000	875,000	724,000	565,000	532,000	635,000	319,000	289,000	554,000
MIN	116,000	143,000	354,000	271,000	262,000	208,000	167,000	131,000	287,000	92,800	82,000	105,000

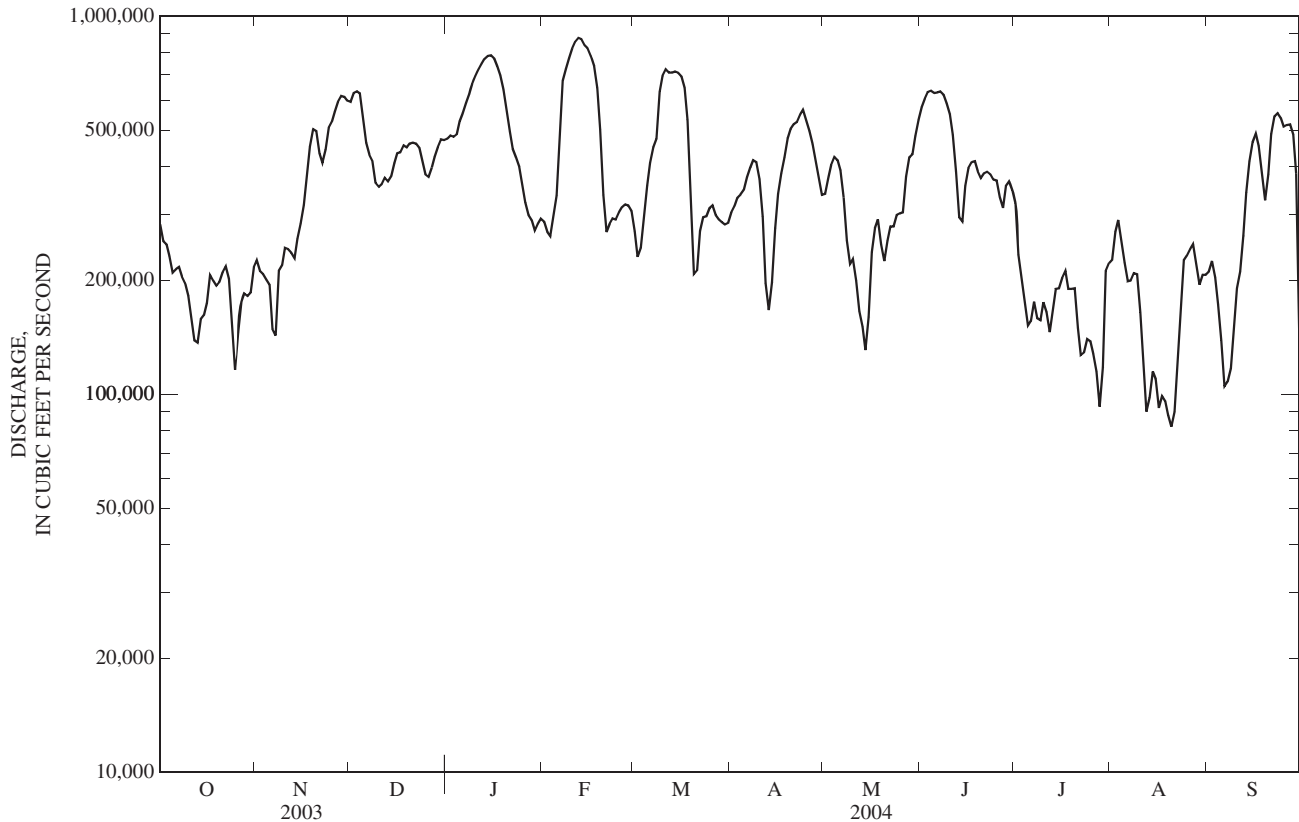
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2004, BY WATER YEAR (WY)

	MEAN	105,500	167,300	293,200	394,200	469,100	521,300	453,400	343,600	224,700	154,900	123,900	105,000
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1928 - 2004	
ANNUAL TOTAL	140,255,000		130,621,800		278,000	
ANNUAL MEAN	384,300		356,900		436,600	
HIGHEST ANNUAL MEAN					120,300	
LOWEST ANNUAL MEAN					1,850,000	
HIGHEST DAILY MEAN	1,010,000	Feb 27	875,000	Feb 12	1,850,000	Feb 1, 1937
LOWEST DAILY MEAN	100,000	Jun 29	82,000	Aug 20	15,000	Jul 20, 1930
ANNUAL SEVEN-DAY MINIMUM	135,000	Jan 26	93,900	Aug 15	16,600	Jul 20, 1930
MAXIMUM PEAK FLOW			881,000	Feb 13	1,850,000	Feb 1, 1937
MAXIMUM PEAK STAGE			47.71	Feb 13	66.60	Feb 2, 1937
10 PERCENT EXCEEDS	748,000		629,000		637,000	
50 PERCENT EXCEEDS	317,000		318,000		193,000	
90 PERCENT EXCEEDS	169,000		152,000		69,100	

e Estimated



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.

EXTREMES FOR CURRENT YEAR.--No peak discharges greater than base discharge of 900 ft³/s and maximum (*):

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 30	2230	*1,100	*6.83				
						No other peak greater than base discharge.	

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.21	0.61	e0.98	e3.9	e0.94	18	1.4	4.2	2.3	0.31	0.35	0.22
2	0.19	0.52	e0.85	e18	6.0	3.1	1.2	6.0	1.4	0.32	0.39	0.24
3	0.21	0.57	e0.47	e3.4	e6.1	21	1.0	4.7	0.97	0.48	0.41	0.24
4	0.23	0.64	e0.85	e1.8	e2.0	13	0.94	2.4	0.78	0.73	0.36	0.23
5	0.25	0.73	e0.98	e10	e10	5.8	0.90	1.7	0.71	0.31	0.38	0.23
6	0.27	0.83	e0.55	e5.1	21	3.5	0.86	1.3	0.65	0.33	0.35	0.22
7	0.26	0.85	e0.41	e2.2	e5.4	2.2	0.83	0.99	0.91	0.36	0.34	0.22
8	0.26	0.85	e0.35	e1.8	e2.1	1.7	e0.86	0.71	0.68	0.30	0.34	0.20
9	0.27	0.85	e0.41	0.88	e1.8	1.6	0.80	0.60	0.58	0.30	0.33	0.17
10	0.29	0.80	e1.3	0.60	e1.7	1.3	0.87	2.7	0.63	0.33	0.32	0.16
11	0.26	0.85	e0.55	0.48	e1.5	1.2	0.88	e1.2	0.75	0.35	0.34	0.16
12	0.25	0.90	e0.35	0.47	e1.3	1.0	1.6	0.74	3.4	0.38	0.38	0.16
13	0.31	0.66	e0.35	0.43	e0.98	0.93	1.5	0.75	10	0.37	0.31	0.16
14	0.39	0.77	e0.47	0.41	1.2	0.94	1.2	1.1	1.9	0.36	0.30	0.17
15	0.30	1.3	e0.26	0.39	0.95	e0.92	1.1	2.6	e2.8	0.38	0.29	0.15
16	0.30	0.99	e0.47	0.35	0.67	e1.4	1.1	e1.7	37	0.41	0.28	e0.16
17	1.6	0.88	e0.35	0.79	0.62	1.2	1.1	1.5	1.3	0.36	0.28	0.17
18	0.38	7.4	e0.35	22	0.57	1.0	1.1	1.2	16	0.34	0.26	0.14
19	0.29	2.6	e0.41	e2.6	0.61	0.89	1.2	0.76	6.6	0.33	0.25	0.15
20	0.25	0.63	e0.26	e1.9	0.59	3.5	1.2	0.57	0.95	0.32	0.32	0.14
21	e0.31	0.37	e0.22	e1.6	0.50	3.2	1.2	0.51	0.45	0.32	0.33	0.14
22	0.35	0.35	e0.24	0.86	0.45	1.7	3.2	0.52	0.35	0.31	0.27	0.14
23	0.38	9.8	e2.8	0.65	e0.45	1.4	19	0.57	0.28	0.35	0.32	0.15
24	0.38	13	e1.1	0.63	0.42	1.3	e4.7	0.62	0.20	0.36	0.36	e0.17
25	0.48	e1.8	e0.49	13	0.44	1.2	12	0.63	0.19	0.43	0.35	0.17
26	0.52	e0.98	e0.26	e5.4	0.43	1.1	3.3	1.1	0.17	0.35	0.29	0.15
27	0.51	e39	e0.30	e1.9	0.38	1.0	2.0	0.94	0.17	0.32	0.24	0.15
28	0.59	e17	e0.22	e1.6	0.38	1.00	1.5	0.76	0.21	0.33	0.33	0.14
29	0.56	e5.7	e19	e1.3	0.39	3.2	1.2	0.76	0.24	0.35	0.37	0.16
30	0.54	e2.6	e3.9	e1.1	---	2.0	2.2	109	0.25	0.52	0.31	0.17
31	0.55	---	e1.3	e1.0	---	1.6	---	26	---	0.39	0.23	---
TOTAL	11.94	114.83	40.80	106.54	69.87	102.88	71.94	178.83	92.82	11.40	9.98	5.23
MEAN	0.39	3.83	1.32	3.44	2.41	3.32	2.40	5.77	3.09	0.37	0.32	0.17
MAX	1.6	39	19	22	21	21	19	109	37	0.73	0.41	0.24
MIN	0.19	0.35	0.22	0.35	0.38	0.89	0.80	0.51	0.17	0.30	0.23	0.14
CFSM	0.06	0.58	0.20	0.52	0.37	0.51	0.37	0.88	0.47	0.06	0.05	0.03
IN.	0.07	0.65	0.23	0.61	0.40	0.58	0.41	1.02	0.53	0.06	0.06	0.03

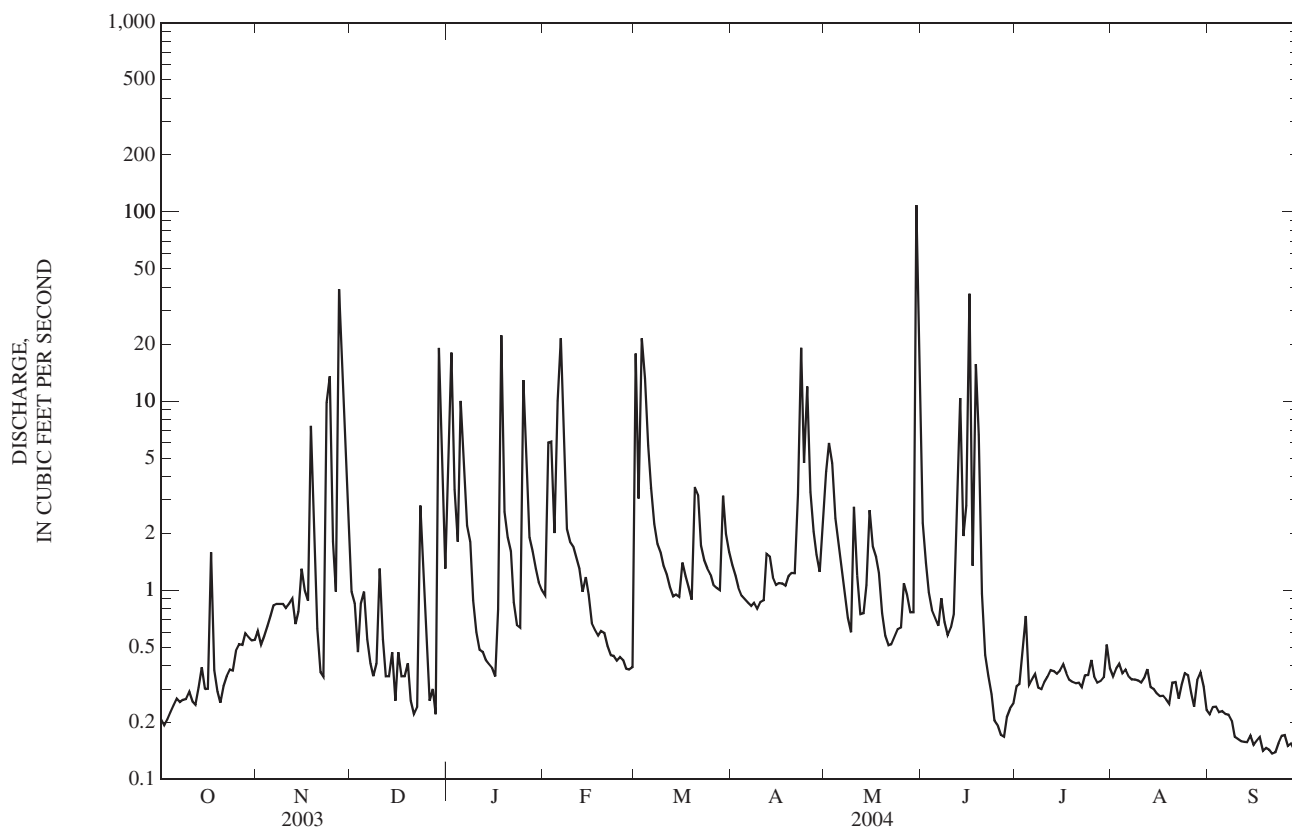
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2004, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	1.71	5.30	10.9	9.57	11.3	10.0	8.27	9.26	4.23	2.45	1.35	0.85
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	0.56	0.17	0.09	0.12	0.15
(WY)	(1998)	(2000)	(1998)	(2001)	(1996)	(1995)	(2004)	(1994)	(1994)	(1993)	(1993)	(1998)

03611800 BAYOU CREEK NEAR HEATH, KY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1991 - 2004	
ANNUAL TOTAL	2,199.86		817.06		6.30	
ANNUAL MEAN	6.03		2.23		13.2	
HIGHEST ANNUAL MEAN					2.23	
LOWEST ANNUAL MEAN					710	
HIGHEST DAILY MEAN	178	Jun 11	109	May 30	1,870	Mar 1, 1997
LOWEST DAILY MEAN	0.15	Sep 28	0.14	Sep 18	0.02	Oct 13, 2002
ANNUAL SEVEN-DAY MINIMUM	0.19	Sep 28	0.15	Sep 17	0.03	Oct 12, 2002
MAXIMUM PEAK FLOW					9.90	
MAXIMUM PEAK STAGE					0.962	
ANNUAL RUNOFF (CFSM)	0.920		0.341		13.06	
ANNUAL RUNOFF (INCHES)	12.49		4.64		6.4	
10 PERCENT EXCEEDS	11		3.6		0.50	
50 PERCENT EXCEEDS	0.71		0.62		0.16	
90 PERCENT EXCEEDS	0.26		0.23			

e Estimated



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)
May 31	0015	*1,340	*10.75				
						No other peak greater than base discharge.	

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	7.3	e15	e57	5.6	140	5.3	16	e12	e7.0	5.6	6.2
2	8.0	7.0	e12	e148	74	24	5.2	28	e8.0	7.4	5.4	6.4
3	7.7	7.0	e9.6	e43	e105	137	5.0	14	e6.4	7.7	5.3	6.3
4	7.6	7.0	e12	e31	e10	156	4.9	5.8	e5.5	20	5.3	6.4
5	7.6	6.9	e14	e68	146	63	4.9	5.3	e5.1	7.8	5.3	6.3
6	7.6	7.1	e15	e94	228	30	4.8	5.2	e4.8	10	4.6	6.2
7	7.4	6.9	e14	e22	e61	15	4.7	5.1	e6.0	13	4.4	6.3
8	7.4	6.8	e11	e11	e25	11	4.6	5.0	e4.9	7.3	4.2	6.4
9	7.3	6.8	e11	11	e22	12	4.6	4.9	e4.3	7.2	4.2	6.4
10	8.3	6.7	e17	9.8	15	9.8	4.6	17	e4.6	6.2	4.3	6.4
11	7.0	7.4	e14	9.4	11	9.0	4.6	5.2	e4.9	6.4	4.5	6.3
12	6.9	7.6	e12	9.5	11	7.5	6.2	5.0	e15	6.6	4.6	6.3
13	6.9	7.0	e13	9.4	9.2	7.1	5.0	5.3	50	6.4	4.6	6.3
14	9.0	7.2	e13	9.5	8.0	7.1	5.1	5.3	e13	6.2	4.6	6.5
15	7.2	11	e13	9.3	7.5	6.9	4.8	6.9	e18	5.7	4.6	6.3
16	7.0	7.8	e11	9.3	8.8	9.1	4.7	5.3	151	5.4	4.7	6.4
17	13	7.4	e10	14	7.6	6.8	4.5	5.4	e10	6.1	4.9	6.4
18	7.3	45	e9.8	191	6.6	6.5	4.5	5.1	e68	6.2	5.1	6.3
19	7.0	21	e9.5	19	6.7	6.0	4.5	4.9	100	6.0	5.1	6.2
20	6.9	9.5	e9.5	e12	6.5	47	4.4	4.7	e12	5.7	6.2	6.3
21	6.9	8.5	e9.5	7.2	6.2	24	4.6	4.6	e8.0	5.2	6.4	6.1
22	6.7	8.5	e12	7.0	5.5	7.5	22	4.5	e6.5	5.6	6.4	6.2
23	6.9	37	e30	6.0	5.3	6.2	107	4.5	e5.8	6.3	8.2	6.1
24	7.0	144	e13	5.8	5.4	6.4	19	4.5	e5.3	5.1	8.8	6.1
25	8.4	e14	e12	119	5.3	5.8	68	4.5	e5.0	5.4	8.0	6.0
26	8.2	e8.2	e11	68	5.2	5.3	11	15	e4.6	5.7	7.1	5.7
27	7.4	e213	e11	20	5.1	5.2	6.6	5.1	e4.4	6.2	7.0	5.7
28	7.5	e129	e9.5	e12	5.0	5.0	5.8	4.7	e5.0	5.8	6.7	6.2
29	7.4	e36	e118	7.1	4.8	12	5.1	4.7	e5.4	6.0	6.7	6.5
30	7.0	e22	e47	6.1	---	6.0	11	106	e5.6	14	6.0	6.6
31	7.1	---	e19	6.1	---	5.6	---	187	---	6.4	6.1	---
TOTAL	236.3	820.6	537.4	1,051.5	822.3	799.8	357.0	504.5	559.1	226.0	174.9	187.8
MEAN	7.62	27.4	17.3	33.9	28.4	25.8	11.9	16.3	18.6	7.29	5.64	6.26
MAX	13	213	118	191	228	156	107	187	151	20	8.8	6.6
MIN	6.7	6.7	9.5	5.8	4.8	5.0	4.4	4.5	4.3	5.1	4.2	5.7
CFSM	0.51	1.84	1.16	2.28	1.90	1.73	0.80	1.09	1.25	0.49	0.38	0.42
IN.	0.59	2.05	1.34	2.63	2.05	2.00	0.89	1.26	1.40	0.56	0.44	0.47

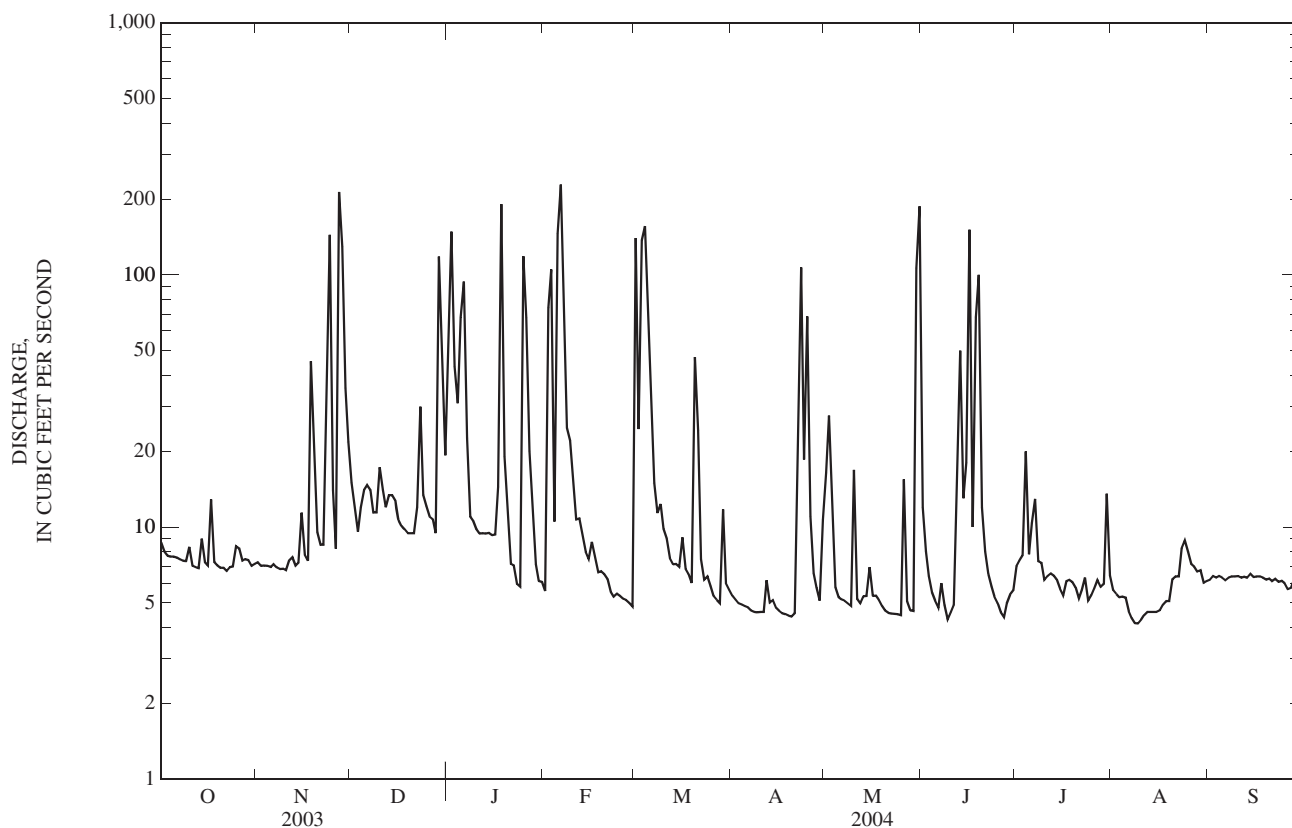
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2004, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	10.5	19.7	30.7	28.4	33.6	29.8	28.2	28.2	17.8	13.0	11.5	9.45		
MAX	29.0	56.7	85.9	55.8	79.4	77.5	50.7	69.6	32.4	27.4	21.4	16.4		
(WY)	(2002)	(1997)	(2002)	(1999)	(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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1991 - 2004	
ANNUAL TOTAL	10,530.2		6,277.2		21.8	
ANNUAL MEAN	28.8		17.2		36.8	
HIGHEST ANNUAL MEAN					14.7	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	496	Feb 22	228	Feb 6	923	Mar 1, 1997
LOWEST DAILY MEAN	6.0	Jun 5	4.2	Aug 8	1.9	Oct 9, 1996
ANNUAL SEVEN-DAY MINIMUM	6.3	Jun 4	4.4	Aug 6	2.7	Oct 2, 1997
MAXIMUM PEAK FLOW			1,340	May 31	1,750	Mar 1, 1997
MAXIMUM PEAK STAGE			10.75	May 31	12.60	Mar 1, 1997
ANNUAL RUNOFF (CFSM)	1.94		1.15		1.47	
ANNUAL RUNOFF (INCHES)	26.29		15.67		19.92	
10 PERCENT EXCEEDS	46		30		30	
50 PERCENT EXCEEDS	9.5		6.9		8.7	
90 PERCENT EXCEEDS	7.0		4.8		5.0	

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)
May 30	2300	*423	*6.41				
						No other peak greater than base discharge.	

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	6.4	e1.9	e4.6	e0.75	27	5.5	10	2.3	0.89	1.1	0.97
2	0.83	5.9	e1.7	e34	8.4	8.6	5.0	15	1.1	0.93	1.1	0.73
3	0.83	5.2	e1.4	e6.3	15	26	4.5	10	0.94	1.0	1.2	0.68
4	0.83	5.2	e1.7	e19	e4.1	28	3.6	5.9	0.86	3.5	1.2	0.71
5	0.80	4.5	e1.9	e17	22	11	3.6	3.3	0.84	0.81	1.4	0.74
6	0.79	3.4	e1.5	e4.7	33	7.0	4.0	1.8	0.87	1.1	0.88	1.2
7	0.79	2.8	e1.3	e2.8	12	5.5	3.6	0.90	0.84	1.7	0.61	0.96
8	0.89	2.9	e1.2	e1.6	e4.7	6.7	3.2	0.73	0.81	0.80	0.61	0.86
9	1.2	3.0	e1.2	1.6	5.1	6.8	2.4	0.62	0.82	0.77	0.61	1.0
10	2.0	4.5	e2.1	1.3	5.0	6.6	2.4	2.0	0.81	0.74	0.66	1.1
11	1.4	4.4	e1.5	1.2	4.2	5.7	2.5	0.78	0.82	0.89	0.62	1.1
12	1.6	4.8	e1.2	1.2	4.1	5.3	4.3	0.74	3.1	1.2	0.68	1.2
13	2.8	7.9	e1.2	1.2	3.4	5.5	2.8	0.81	3.8	1.1	0.67	1.3
14	4.7	9.0	e1.3	1.2	3.2	5.9	1.5	0.95	1.3	1.1	0.68	1.1
15	2.3	14	e1.1	1.2	2.8	5.9	1.1	3.1	3.3	1.1	0.67	1.2
16	2.4	13	e1.4	1.1	2.0	7.4	2.0	1.1	29	1.1	0.67	1.4
17	4.7	13	e1.2	2.3	1.9	5.9	2.0	0.88	2.1	1.1	0.68	1.4
18	1.5	18	e1.2	32	1.9	6.5	1.8	0.85	11	1.2	0.67	1.5
19	1.4	7.5	e1.2	e5.8	1.7	5.8	1.8	0.64	14	1.1	0.66	1.4
20	1.8	4.1	e1.1	e2.2	e2.2	12	1.9	0.55	1.6	1.2	0.87	1.5
21	2.5	3.3	e0.95	e2.0	e2.7	9.7	2.0	0.52	1.0	1.2	0.77	1.5
22	2.9	3.8	e0.95	2.1	e2.4	6.8	6.9	0.50	1.1	1.2	0.64	1.5
23	3.1	9.1	e3.4	2.0	e2.8	6.0	20	0.49	0.97	1.6	1.2	1.5
24	4.8	19	e2.0	2.0	3.3	5.6	8.7	0.49	0.86	1.3	1.4	1.5
25	4.9	e2.6	e1.4	15	3.3	5.9	17	0.46	0.90	1.6	1.8	1.6
26	3.7	e1.9	e1.1	e12	3.4	4.9	6.2	3.0	0.86	1.5	0.77	1.6
27	2.2	e71	e1.1	e4.4	3.3	4.3	3.3	1.3	0.86	1.3	0.49	1.8
28	2.3	e30	e0.95	e2.2	3.5	3.8	2.4	0.64	0.87	1.3	0.83	1.7
29	2.3	e4.9	e18	e1.6	3.5	8.9	2.6	0.51	0.94	1.2	1.3	1.8
30	4.2	e3.2	e6.0	e1.2	---	7.3	7.8	37	0.96	2.9	0.86	1.8
31	6.8	---	e2.6	e1.1	---	6.2	---	50	---	1.5	0.92	---
TOTAL	74.66	288.3	66.75	187.9	165.65	268.5	136.4	155.56	89.53	39.93	27.22	38.35
MEAN	2.41	9.61	2.15	6.06	5.71	8.66	4.55	5.02	2.98	1.29	0.88	1.28
MAX	6.8	71	18	34	33	28	20	50	29	3.5	1.8	1.8
MIN	0.79	1.9	0.95	1.1	0.75	3.8	1.1	0.46	0.81	0.74	0.49	0.68
CFSM	0.42	1.66	0.37	1.05	0.99	1.50	0.79	0.87	0.52	0.22	0.15	0.22
IN.	0.48	1.86	0.43	1.21	1.07	1.73	0.88	1.00	0.58	0.26	0.18	0.25

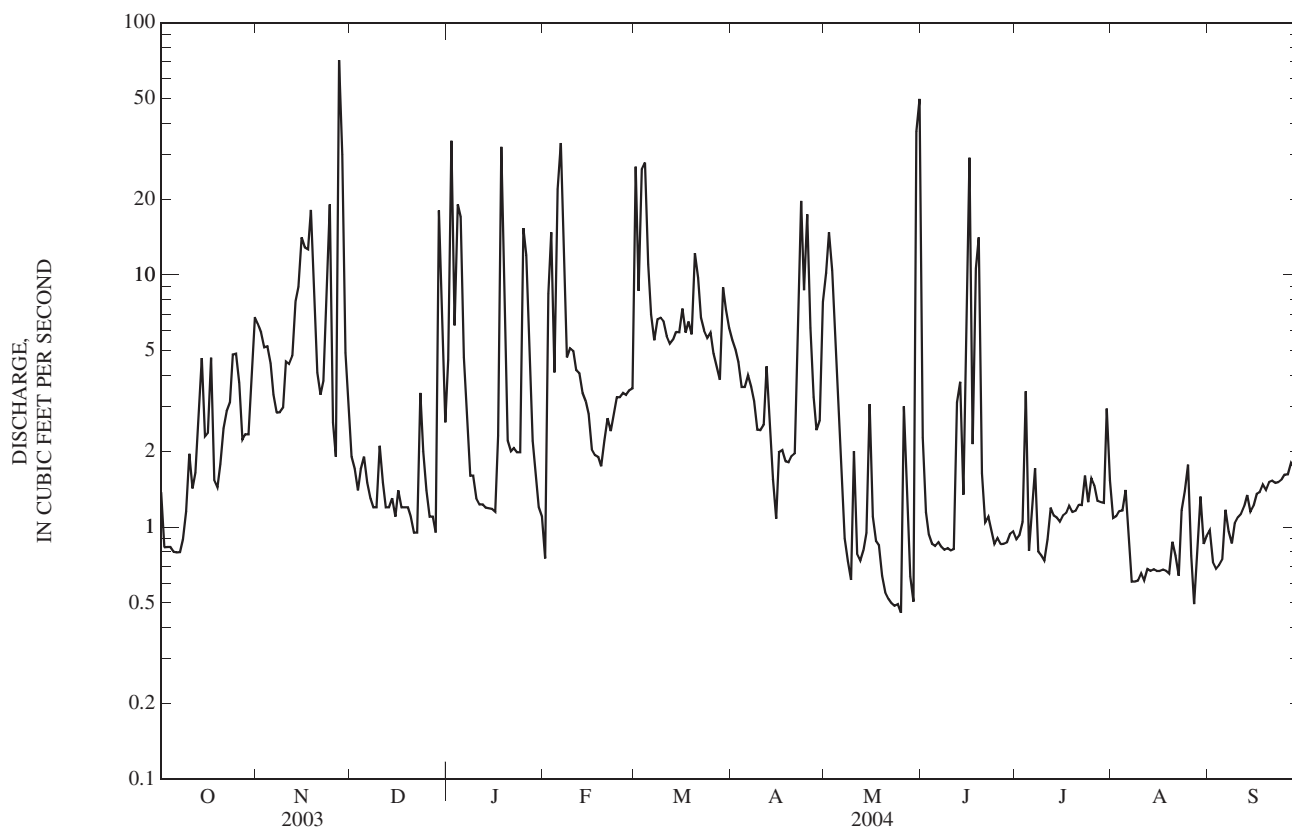
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2004, BY WATER YEAR (WY)

	2.54	5.87	9.90	9.52	10.2	10.5	9.06	9.69	4.09	2.80	1.94	1.61
MEAN												
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1991 - 2004	
ANNUAL TOTAL	2,483.04		1,538.75		6.52	
ANNUAL MEAN	6.80		4.20		12.4	
HIGHEST ANNUAL MEAN					3.75	
LOWEST ANNUAL MEAN					506	
HIGHEST DAILY MEAN	133	Jun 11	71	Nov 27	506	Mar 1, 1997
LOWEST DAILY MEAN	0.63	Sep 28	0.46	May 25	0.02	May 25, 1995
ANNUAL SEVEN-DAY MINIMUM	0.82	Oct 2	0.52	May 19	0.35	Aug 2, 2001
MAXIMUM PEAK FLOW					1,300	Mar 1, 1997
MAXIMUM PEAK STAGE					11.26	Mar 1, 1997
ANNUAL RUNOFF (CFSM)	1.18		0.727		1.13	
ANNUAL RUNOFF (INCHES)	15.98		9.90		15.32	
10 PERCENT EXCEEDS	13		8.9		9.3	
50 PERCENT EXCEEDS	1.7		1.8		1.3	
90 PERCENT EXCEEDS	1.1		0.78		0.70	

e Estimated



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

(National stream-quality accounting network station)

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

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

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

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

REMARKS.--Records of daily discharge are published for 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 2003 TO SEPTEMBER 2004

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Turbidity, wat unflab. Hach 2100AN NTU (99872)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)
NOV												
05...	1350	Environmental	187,000	17	0.075	0.055	9.8	102	8.0	328	18.0	130
05...	1400	Replicate	--	--	--	--	--	--	--	--	--	--
DEC												
03...	1400	Environmental	608,000	100	.099	.075	11.2	97	7.7	271	9.0	130
03...	1408	Field Blank	--	--	<.004	<.004	--	--	--	--	--	--
03...	1410	Replicate	--	--	--	--	--	--	--	--	--	--
JAN												
21...	1330	Environmental	487,000	74	.085	.064	12.6	94	7.6	324	3.5	140
FEB												
04...	1330	Environmental	290,000	24	.056	.041	14.5	104	7.7	344	2.5	140
MAR												
10...	1430	Environmental	662,000	68	.063	.047	13.2	112	7.8	351	9.0	130
10...	1440	Replicate	--	72	.064	.048	--	--	--	--	--	130
24...	1310	Environmental	294,000	44	.062	.046	11.7	102	7.9	272	10.5	120
24...	1318	Field Blank	--	--	--	--	--	--	--	--	--	--
APR												
20...	1340	Environmental	474,000	100	.069	.051	10.4	100	7.8	343	14.0	130
27...	1430	Environmental	459,000	69	.077	.057	9.3	94	7.6	285	16.0	120
27...	1438	Field Blank	--	--	--	--	--	--	--	--	--	--
MAY												
19...	1410	Environmental	237,000	20	.068	.050	9.4	106	7.9	305	22.0	130
26...	1250	Environmental	296,000	47	.072	.054	8.4	100	7.8	407	24.0	160
26...	1300	Replicate	--	51	.069	.051	--	--	--	--	--	160
JUN												
08...	1120	Environmental	620,000	74	.137	.103	6.1	70	7.4	250	23.0	110
08...	1128	Field Blank	--	--	<.004	<.004	--	--	--	--	--	--
23...	1410	Environmental	373,000	98	.098	.073	7.0	84	7.7	308	26.0	130
23...	1418	Field Blank	--	--	--	--	--	--	--	--	--	--
JUL												
21...	1350	Environmental	166,000	17	.085	.063	7.9	101	7.9	283	28.5	120
AUG												
25...	1310	Environmental	222,000	20	.087	.065	7.9	97	7.8	338	26.5	140
SEP												
01...	1300	Environmental	189,000	19	.096	.073	6.6	80	7.5	267	26.5	110

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alka- linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar- bonate, wat flt incrm. titr., field, mg/L (00453)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, 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)
NOV 05...	34.3	9.56	2.62	13.4	87	106	16.6	<0.2	5.57	42.4	196	0.24	0.41
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 03...	36.2	8.94	2.68	7.92	82	100	11.6	<.2	6.89	31.9	158	.26	.70
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 21...	37.3	10.2	2.61	9.23	90	110	13.2	<.2	6.43	36.3	185	.27	.60
FEB 04...	39.4	9.68	2.15	10.5	94	115	12.9	<.2	5.81	37.8	186	.22	.41
MAR 10...	36.5	9.51	2.08	13.8	86	105	20.4	<.2	5.16	43.9	201	.19	.58
10...	37.2	9.64	2.15	14.0	84	102	20.1	<.2	5.26	42.7	200	.23	.55
24...	34.4	8.74	1.97	10.5	78	95	14.2	<.2	4.72	38.0	174	.19	.47
24...	0.03	<0.008	--	E0.08	--	--	--	--	E0.03	--	--	--	--
APR 20...	36.2	9.27	2.00	14.3	80	98	19.8	<.2	4.62	48.8	202	.18	.72
27...	35.3	8.84	2.17	11.4	84	103	13.4	<.2	4.90	40.9	178	.23	.56
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 19...	38.2	9.32	2.22	11.2	87	107	14.6	<.2	3.91	37.3	185	.20	.47
26...	43.2	13.2	2.39	15.5	99	121	22.6	<.2	3.48	60.8	233	.25	.64
26...	42.6	12.6	2.22	17.2	100	122	22.0	<.2	3.56	58.2	238	.27	.63
JUN 08...	30.7	7.01	3.02	7.16	77	94	9.23	<.2	6.46	28.7	161	.24	.70
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	36.1	8.86	2.78	9.74	91	111	12.5	<.2	5.99	34.6	186	.18	.64
23...	.02	<.008	--	E.09	--	--	--	--	.06	--	--	--	--
JUL 21...	35.0	8.67	2.76	11.3	84	102	13.9	<.2	4.83	35.5	169	.25	.45
AUG 25...	37.1	10.7	2.83	15.9	88	107	19.3	<.2	3.17	47.6	198	.28	.55
SEP 01...	30.8	7.99	3.11	12.1	73	90	13.7	<.2	4.94	33.6	157	.25	.49

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Pheo- phytin a, phyto- plank- ton, ug/L (62360)	Chloro- phyll a phyto- plank- ton, fluoro, ug/L (70953)
NOV 05...	<0.04	0.89	0.008	0.18	0.033	0.046	0.10	1.3	<0.1	1.2	2.8	12.2	9.8
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 03...	<.04	1.25	.009	.42	.037	.047	.29	5.7	.2	5.4	3.2	6.4	3.1
03...	--	--	--	<.02	--	--	--	<0.1	<.1	<0.1	0.3	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 21...	E.02	1.48	.009	.36	.041	.047	.22	4.6	<.1	4.6	3.2	3.7	4.0
FEB 04...	E.03	1.15	.008	.14	.025	.033	.11	1.3	<.1	1.3	2.1	2.7	2.6
MAR 10...	E.04	1.23	.018	.39	.033	.040	.21	4.9	<.1	4.8	2.4	4.1	3.6
10...	.04	1.22	.019	.35	.032	.042	.21	3.8	<.1	3.8	2.4	4.5	3.6
24...	<.04	1.13	.014	.28	.017	.027	.13	2.5	<.1	2.5	2.4	6.7	8.6
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 20...	<.04	1.00	.024	.47	.018	.056	.27	6.1	.2	5.9	2.6	5.1	4.5
27...	<.04	.92	.024	.28	.019	.030	.17	3.1	<.1	3.1	2.7	7.9	6.5
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 19...	<.04	1.03	.015	.24	.015	.026	.09	1.6	<.1	1.6	3.7	14.0	16.2
26...	<.04	1.28	E.006	.37	.021	.037	.16	3.1	<.1	3.1	2.6	19.8	14.4
26...	<.04	1.26	E.006	.39	.021	.037	.16	3.4	<.1	3.4	2.5	20.2	14.5
JUN 08...	<.04	1.38	.011	.34	.039	.051	.23	3.6	.1	3.4	4.3	4.8	4.2
08...	--	--	--	<.02	--	--	--	<.1	<.1	<.1	E.3	--	--
23...	<.04	1.89	<.008	.38	.044	.056	.22	4.2	<.1	4.2	3.2	7.5	8.6
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 21...	<.04	.86	.014	.25	.029	.041	.08	1.5	<.1	1.4	2.7	12.2	15.9
AUG 25...	<.04	.50	.009	.40	.018	.032	.13	2.7	<.1	2.7	3.2	20.3	23.6
SEP 01...	<.04	.52	.030	.20	.043	.052	.11	1.3	<.1	1.3	3.4	11.3	15.0

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Alum- inum, water, fltrd, ug/L (01106)	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)
NOV													
05...	3	E0.16	0.8	33	<0.06	50	<0.04	<0.8	0.141	1.4	<6	<0.08	3.3
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
03...	--	--	.6	--	--	30	--	--	--	--	16	--	2.0
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
21...	5	E.10	.6	32	<.06	30	<.04	<.8	.171	1.4	12	<.08	2.0
FEB													
04...	6	E.10	.5	30	<.06	29	<.04	<.8	.176	1.0	11	<.08	2.2
MAR													
10...	6	E.10	.4	35	<.06	33	<.04	<.8	.150	1.2	8	<.08	3.2
10...	6	E.12	.4	34	<.06	31	<.04	<.8	.151	1.2	10	<.08	3.1
24...	11	<.20	.4	30	<.06	25	<.04	<.8	.132	1.1	9	<.08	2.2
24...	<2	<.20	<.2	<0.2	<.06	<8	<.04	<.8	<.014	<0.4	<6	<.08	<0.6
APR													
20...	11	E.11	.4	34	<.06	31	<.04	<.8	.129	1.3	E4	<.08	3.3
27...	--	--	.4	--	--	30	--	--	--	--	8	--	2.6
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
19...	6	E.10	.6	30	<.06	36	<.04	<.8	.156	1.4	<6	E.07	2.8
26...	8	E.13	.7	39	<.06	43	E.02	<.8	.197	1.8	<6	<.08	4.5
26...	8	E.13	.6	39	<.06	43	E.03	<.8	.199	1.7	<6	<.08	4.4
JUN													
08...	8	E.12	.7	31	<.06	27	<.04	E.4	.137	2.1	7	<.08	2.2
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	9	E.14	.7	35	<.06	34	<.04	<.8	.167	1.8	<6	<.08	2.7
23...	<2	<.20	<.2	<.2	<.06	<8	<.04	<.8	<.014	<.4	<6	<.08	<.6
JUL													
21...	6	E.18	1.0	32	<.06	46	<.04	<.8	.169	1.6	<6	<.08	2.4
AUG													
25...	5	E.16	.9	34	<.06	54	<.04	<.8	.189	1.7	<6	<.08	3.4
SEP													
01...	5	E.15	1.1	30	<.06	45	<.04	<.8	.144	1.6	<6	<.08	2.5

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Mangan- ese, water, fltrd, ug/L (01056)	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 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)
NOV													
05...	0.3	2.0	1.41	E0.3	<0.2	174	1.2	<0.6	<0.006	E0.021	0.008	<0.005	<0.005
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
03...	--	--	--	E.2	--	142	0.8	--	<.006	E.006	E.005	<.005	<.005
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
21...	2.8	1.4	1.92	.5	<.2	142	.7	.7	<.006	E.022	.012	.005	<.005
FEB													
04...	10.9	1.1	1.49	E.3	<.2	147	.7	E.5	<.006	E.017	.009	<.005	<.005
MAR													
10...	.9	1.2	1.74	E.2	<.2	172	1.0	E.5	<.006	E.013	.012	<.005	<.005
10...	.8	1.4	1.58	E.3	<.2	168	.8	.7	<.006	E.015	.011	<.005	<.005
24...	1.5	1.0	1.40	E.3	<.2	136	1.5	1.9	<.006	E.016	.007	<.005	<.005
24...	<.2	<0.4	<0.06	<.4	<.2	<0.40	<.1	<.6	--	--	--	--	--
APR													
20...	.6	1.2	1.24	E.2	<.2	187	.5	E.5	<.006	E.013	.023	<.005	<.005
27...	--	--	--	E.3	--	158	1.2	--	<.006	E.056	.110	.007	<.005
27...	--	--	--	--	--	--	--	--	<.006	<.006	<.006	<.005	<.005
MAY													
19...	.3	1.5	1.22	E.2	<.2	138	.7	.6	<.006	E.074	.100	.007	<.005
26...	.2	2.4	1.83	.5	<.2	239	.8	.7	<.006	E.022	.126	<.006	<.005
26...	E.2	2.3	1.90	E.4	<.2	236	.8	.8	<.006	E.018	.122	.006	<.005
JUN													
08...	1.1	1.2	1.73	<.4	<.2	125	1.3	E.4	<.006	E.150	.167	.013	<.005
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	.3	1.8	1.50	E.3	<.2	156	.8	.6	<.006	E.111	.175	.013	<.005
23...	<.2	<.4	<.06	<.4	<.2	<.40	<.1	E.5	--	--	--	--	--
JUL													
21...	.3	2.3	1.34	E.3	<.2	147	1.2	E.4	<.006	E.056	.043	<.005	<.005
AUG													
25...	.3	2.7	1.87	.4	<.2	178	1.1	.7	<.006	E.030	.011	<.005	<.005
SEP													
01...	.4	2.2	1.22	E.4	<.2	118	1.2	E.4	<.006	E.075	.038	<.005	<.005

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Atra- zine, water, fltrd, ug/L (39632)	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)
NOV 05... 05...	0.105 --	<0.050 --	<0.010 --	<0.004 --	<0.041 --	<0.020 --	<0.005 --	<0.006 --	<0.018 --	<0.003 --	<0.005 --	<0.009 --	<0.02 --
DEC 03... 03... 03...	.084 -- --	<.050 -- --	<.010 -- --	<.004 -- --	E.003 -- --	<.020 -- --	<.005 -- --	<.006 -- --	<.018 -- --	<.003 -- --	E.001 -- --	<.009 -- --	<.02 -- --
JAN 21...	.085	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02
FEB 04...	.046	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02
MAR 10... 10... 24... 24...	.106 .107 .245 --	<.050 <.050 <.050 --	<.010 <.010 <.010 --	<.004 <.004 <.004 --	<.041 <.041 E.005 --	<.020 <.020 <.020 --	<.005 <.005 <.005 --	<.006 <.006 <.006 --	<.018 <.018 <.018 --	<.003 <.003 <.003 --	<.005 <.005 <.005 --	<.009 <.009 <.009 --	<.02 <.02 <.02 --
APR 20... 27... 27...	.218 1.75 <.007	<.050 <.050 <.050	<.010 <.010 <.010	<.004 <.004 <.004	<.041 <.041 <.041	<.020 E.020 <.020	<.005 <.005 <.005	<.006 <.006 <.006	<.018 <.018 <.018	<.003 <.003 <.003	<.005 <.005 <.005	<.009 <.009 <.009	<.02 <.02 <.02
MAY 19... 26... 26...	1.37 1.27 1.26	<.050 <.050 <.050	<.010 <.010 <.010	<.004 <.004 <.004	<.041 <.041 <.041	<.020 <.020 <.020	<.005 <.005 <.005	<.006 <.006 <.006	<.018 <.018 <.018	<.003 <.003 <.003	<.005 <.005 <.005	<.009 <.009 <.009	<.02 <.02 <.02
JUN 08... 08... 23... 23...	2.05 -- 1.51 --	<.050 -- <.050 --	<.010 -- <.010 --	<.004 -- <.004 --	E.006 -- <.041 --	E.006 -- <.020 --	<.005 -- <.005 --	<.006 -- <.006 --	<.018 -- <.018 --	<.003 -- <.003 --	<.005 -- <.005 --	<.009 -- <.009 --	<.02 -- <.02 --
JUL 21...	.445	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02
AUG 25...	.195	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02
SEP 01...	.316	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	EPTC, water, fltrd 0.7u GF ug/L (82668)	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)	Mala- thion, 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)
NOV 05... 05...	<0.004 --	<0.009 --	<0.005 --	<0.003 --	<0.004 --	<0.035 --	<0.027 --	<0.015 --	0.020 --	<0.006 --	<0.003 --	<0.007 --	<0.003 --
DEC 03... 03... 03...	<.004 -- --	<.009 -- --	<.005 -- --	<.003 -- --	<.004 -- --	<.035 -- --	<.027 -- --	<.015 -- --	.017 -- --	<.006 -- --	<.003 -- --	<.007 -- --	<.003 -- --
JAN 21...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.024	E.006	<.003	<.007	<.003
FEB 04...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.014	<.006	<.003	<.007	<.003
MAR 10... 10... 24... 24...	<.004 <.004 <.004 --	<.009 <.009 <.009 --	<.005 <.005 <.005 --	<.003 .003 <.003 --	<.004 <.004 <.004 --	<.035 <.035 <.035 --	<.027 <.027 <.027 --	<.015 <.015 <.015 --	.018 .017 .030 --	<.006 <.006 <.006 --	<.003 <.003 <.003 --	<.007 <.007 <.007 --	<.003 <.003 <.003 --
APR 20... 27... 27...	<.004 <.004 <.004	<.009 <.009 <.009	<.005 <.005 <.005	<.003 <.003 <.003	<.004 <.004 <.004	<.035 <.035 <.035	<.027 <.027 <.027	<.015 <.015 <.015	.034 .209 <.013	<.006 <.010 <.006	<.003 <.003 <.003	<.007 <.007 <.007	<.003 <.003 <.003
MAY 19... 26... 26...	<.004 <.004 <.004	<.009 <.009 <.009	<.005 <.005 <.005	<.003 <.003 <.003	<.004 <.004 <.004	<.035 <.035 <.035	<.027 <.027 <.027	<.015 <.015 <.015	.164 .176 .174	<.006 <.006 <.006	<.003 <.003 <.003	<.007 <.007 <.007	<.003 <.003 <.003
JUN 08... 08... 23... 23...	<.004 -- <.004 --	<.009 -- <.009 --	<.005 -- <.005 --	<.003 -- <.003 --	<.004 -- <.004 --	<.035 -- <.035 --	<.027 -- <.027 --	<.015 -- <.015 --	.402 -- .400 --	.010 -- <.006 --	<.003 -- <.003 --	<.007 -- <.007 --	<.003 -- <.003 --
JUL 21...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.119	<.006	<.003	<.007	<.003
AUG 25...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.034	<.006	<.003	<.007	<.003
SEP 01...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.118	<.006	<.003	<.007	<.003

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Para- thion, water, fltrd, ug/L (39542)	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)
NOV 05...	<0.010	<0.004	<0.022	<0.011	.01	<0.004	<0.025	<0.011	<0.02	.034	E0.01	<0.034	<0.02
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 03...	<.010	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	.240	<.02	<.034	<.02
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 21...	<.010	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	.234	M	<.034	<.02
FEB 04...	<.010	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	.055	<.02	<.034	<.02
MAR 10...	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.096	<.02	<.034	<.02
10...	<.010	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	.093	<.02	<.034	<.02
24...	<.010	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	.173	E.01	<.034	<.02
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 20...	<.010	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	.031	<.02	<.034	<.02
27...	<.010	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	.286	<.02	<.034	<.02
27...	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02
MAY 19...	<.010	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	.166	<.02	<.034	<.02
26...	<.010	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	.145	<.02	<.034	<.02
26...	<.010	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	.134	<.02	<.034	<.02
JUN 08...	<.010	<.004	<.022	<.011	.02	<.004	<.025	<.011	<.02	.260	<.02	<.034	<.02
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	<.010	<.004	<.022	<.011	.02	<.004	<.025	<.011	<.02	.131	<.02	<.034	<.02
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 21...	<.010	<.004	<.022	<.011	.02	<.004	<.025	<.011	<.02	.054	<.02	<.034	<.02
AUG 25...	<.010	<.004	<.022	<.011	.02	<.004	<.025	<.011	<.02	.030	<.02	<.034	<.02
SEP 01...	<.010	<.004	<.022	<.011	<.09	<.006	<.025	<.011	<.02	.043	<.02	<.034	<.02

OHIO RIVER MAIN STEM

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	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)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
NOV						
05...	<0.010	<0.002	<0.009	0.36	97	25
05...	--	--	--	--	97	27
DEC						
03...	<.010	<.002	<.009	--	84	192
03...	--	--	--	--	--	--
03...	--	--	--	--	85	182
JAN						
21...	<.010	<.002	<.009	.45	90	115
FEB						
04...	<.010	<.002	<.009	.37	89	39
MAR						
10...	<.010	<.002	<.009	.43	90	136
10...	<.010	<.002	<.009	.43	--	--
24...	<.010	<.002	<.009	.34	97	68
24...	--	--	--	<.04	--	--
APR						
20...	<.010	<.002	<.009	.34	88	209
27...	<.010	<.002	<.009	--	94	104
27...	<.010	<.002	<.009	--	--	--
MAY						
19...	<.010	<.002	<.009	.37	96	33
26...	<.010	<.002	<.009	.47	98	106
26...	<.010	<.002	<.009	.48	98	108
JUN						
08...	<.010	<.002	<.009	.23	91	131
08...	--	--	--	--	--	--
23...	<.010	<.002	<.009	.37	98	101
23...	--	--	--	<.04	--	--
JUL						
21...	<.010	<.002	<.009	.35	97	24
AUG						
25...	<.010	<.002	<.009	.34	88	42
SEP						
01...	<.010	<.002	<.009	.29	97	24

E--Laboratory estimated value.

M--Presence of material verified but not quantified.

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

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07024000 BAYOU DE CHIEN NEAR CLINTON, KY

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

DRAINAGE AREA.--68.7 mi².

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

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

GAGE.--Water-Stage recorder 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. Minium 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)
June 17	0300	*1,240	*13.67				
						No peaks greater than base discharge	

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	27	29	51	24	123	30	74	103	32	23	26
2	21	27	25	141	65	47	27	85	41	72	23	25
3	21	27	26	57	140	209	25	68	36	30	23	24
4	21	28	30	125	45	123	24	48	34	30	23	24
5	21	28	28	389	683	282	23	42	31	27	25	24
6	21	28	25	45	879	242	24	37	31	39	24	24
7	21	27	23	26	136	67	23	35	31	75	23	22
8	21	27	23	30	51	44	22	33	29	28	24	22
9	22	26	23	26	44	43	21	31	114	27	24	22
10	24	27	36	21	38	34	21	31	83	26	23	22
11	23	28	26	20	34	31	21	36	34	25	24	22
12	22	30	22	21	34	29	46	31	185	25	24	21
13	22	37	22	19	30	28	86	32	292	25	23	22
14	31	28	24	18	30	28	43	37	58	24	23	22
15	25	51	23	17	29	28	27	115	96	24	23	21
16	24	49	24	17	27	39	24	51	1,140	24	24	20
17	34	37	23	19	26	33	23	38	829	25	24	20
18	29	203	22	251	25	31	21	34	121	24	24	19
19	26	118	21	48	26	28	20	31	33	24	24	19
20	25	43	20	27	27	70	20	36	27	23	27	19
21	24	32	20	24	24	89	24	28	25	23	26	19
22	24	29	20	23	23	34	61	26	25	23	24	19
23	24	56	143	21	23	29	924	25	26	23	89	19
24	24	443	53	20	23	28	685	25	25	23	237	19
25	36	46	26	e42	24	26	512	24	175	26	50	19
26	76	32	23	e175	24	25	122	23	37	26	37	19
27	40	837	21	e160	24	24	69	23	27	24	24	19
28	35	606	21	e100	23	24	51	28	26	24	275	19
29	34	75	133	e72	25	37	45	55	25	24	148	19
30	30	39	78	e28	---	61	89	354	27	27	33	19
31	29	---	34	25	---	41	---	863	---	26	28	---
TOTAL	852	3,091	1,067	2,058	2,606	1,977	3,153	2,399	3,766	898	1,446	630
MEAN	27.5	103	34.4	66.4	89.9	63.8	105	77.4	126	29.0	46.6	21.0
MAX	76	837	143	389	879	282	924	863	1,140	75	275	26
MIN	21	26	20	17	23	24	20	23	25	23	23	19
CFSM	0.40	1.50	0.50	0.97	1.31	0.93	1.53	1.13	1.83	0.42	0.68	0.31
IN.	0.46	1.67	0.58	1.11	1.41	1.07	1.71	1.30	2.04	0.49	0.78	0.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	33.8	81.7	131	149	186	204	134	109	76.8	56.5	39.4	34.9
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)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	40,303		23,943		103	
ANNUAL MEAN	110		65.4		268	
HIGHEST ANNUAL MEAN					18.7	
LOWEST ANNUAL MEAN					1941	
HIGHEST DAILY MEAN	3,660	May 18	1,140	Jun 16	7,150	Jan 2, 1966
LOWEST DAILY MEAN	18	Jul 12	17	Jan 15	4.0	May 29, 1943
ANNUAL SEVEN-DAY MINIMUM	19	Jul 22	19	Jan 11	4.7	Jun 20, 1942
MAXIMUM PEAK FLOW			1,240	Jun 17	9,460	Jan 2, 1966
MAXIMUM PEAK STAGE			13.67	Jun 17	16.79	May 17, 2003
ANNUAL RUNOFF (CFSM)	1.61		0.952		1.49	
ANNUAL RUNOFF (INCHES)	21.82		12.96		20.30	
10 PERCENT EXCEEDS	132		119		185	
50 PERCENT EXCEEDS	34		27		25	
90 PERCENT EXCEEDS	21		21		11	

e Estimated

