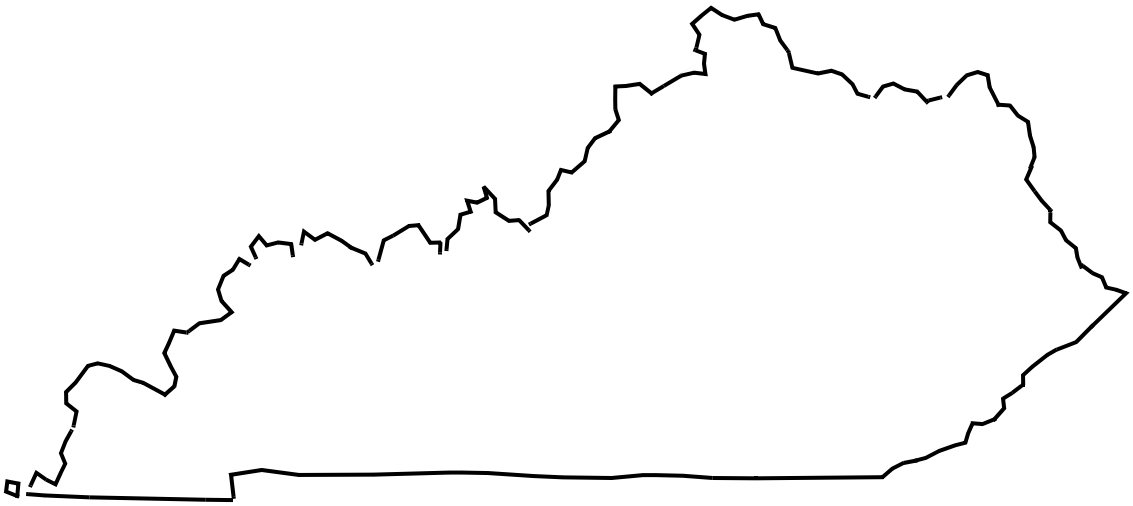
U.S. Department of the Interior
U.S. Geological Survey

Water Resources Data
Kentucky
Water Year 2001

By D.L. McClain, F.D. Byrd, and A.C. Brown

Water-Data Report KY-01-1



Prepared in cooperation with the
Commonwealth of Kentucky and with other agencies

U.S. DEPARTMENT OF THE INTERIOR
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Louisville, Kentucky 40299-1906

2002

PREFACE

This volume of the annual hydrologic data report of Kentucky is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and water quality provide the hydrologic information needed by state, local, and federal agencies, and the private sector for developing and managing our Nation's land and water resources.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. The authors had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Survey policy and established guidelines. Most of the data were collected, computed, and processed from the District and field offices.

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REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY *(Leave blank)*	2. REPORT DATE	3. REPORT TYPE AND DATES COVERED
	March 27, 2002	Annual—October 1, 2000 to September 30, 2001

4. TITLE AND SUBTITLE
Water Resources Data - Kentucky, Water Year 2001

5. FUNDING NUMBERS

6. AUTHOR(S)
D.L. McClain, F.D. Byrd, and A.C. Brown

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)
U.S. Geological Survey, Water Resources Discipline
Kentucky District
9818 Bluegrass Parkway
Louisville, KY 40299–1906

8. PERFORMING ORGANIZATION REPORT NUMBER
USGS-WDR-KY-01-1

9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)
U.S. Geological Survey, Water Resources Discipline
Kentucky District
9818 Bluegrass Parkway
Louisville, KY 40299—1906

10. SPONSORING / MONITORING AGENCY REPORT NUMBER
USGS-WDR-KY-01-1

11. SUPPLEMENTARY NOTES
Prepared in cooperation with the Commonwealth of Kentucky and other agencies.

12a. DISTRIBUTION / AVAILABILITY STATEMENT
No restriction on distribution. This report may be purchased from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.

12b. DISTRIBUTION CODE

13. ABSTRACT *(Maximum 200 words)*

Water resources data for the 2001 water year for Kentucky consist of records of stage, discharge, and water quality of streams and lakes; and water levels of wells. This report includes daily discharge records for 120 stream-gaging stations. It also includes water-quality data for eight stations sampled at regular intervals, continuous temperature at four stations, and continuous water quality at eight stations. Ground-water levels are published for 7 recording and 23 partial-record sites. Precipitation data at regular intervals are published for one site. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as miscellaneous measurement and analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Kentucky.

14. SUBJECT TERMS
*Kentucky, *Hydrologic data, *Surface waters, *Water quality, *Ground waters, Gaging stations, Streamflow, Flow rates, Lakes, Wells, Chemical analyses, Suspended sediments, Water temperature, Water levels

15. NUMBER OF PAGES
541

16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT
Unclassified			Unclassified

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SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

[Letters after station name designate type of data: (d) discharge, (g) stage, (c) chemical, (b) biological, (t) water temperature, (s) sediment]

	STATION NUMBER	Page
OHIO RIVER BASIN		
Ohio River:		
BIG SANDY RIVER BASIN		
Levisa Fork (head of Big Sandy River):		
Grapevine Creek near Phyllis (d)	03207965	50
Levisa Fork at Pikeville (d)	03209500	52
Johns Creek near Meta (d)	03210000	54
Levisa Fork at Paintsville (d)	03212500	56
LITTLE SANDY RIVER BASIN		
Little Sandy River at Grayson (d)	03216500	58
Ohio River at Greenup Dam (d, c)	03216600	60
TYGARTS CREEK BASIN		
Tygarts Creek near Greenup (d)	03217000	68
KINNICONICK CREEK BASIN		
Kinniconick Creek at Tannery (d)	03237250	70
Twelvemile Creek Basin:		
Twelvemile Creek at Highway 1997 near Alexandria (c, d)	03238745	72
FOURMILE CREEK BASIN		
Fourmile Creek at Poplar Ridge Road near Alexandria (c)	03238772	82
Fourmile Creek at Hwy 547 near Alexandria (d)	03238780	90
LICKING RIVER BASIN		
LICKING RIVER		
Slate Creek at Highway 713 near Mount Sterling (d)	03250190	92
Fox Creek:		
Rock Lick Creek above Unnamed Tributary near Sharkey (d)	03250310	94
Rock Lick Creek at State Highway 158 near Sharkey (d)	03250322	96
North Fork Licking River near Mt. Olivet (d)	03251200	98
Licking River at Mckinneysburg (d)	03251500	100
South Fork Licking River:		
Hinkston Creek near Carlisle (d)	03252300	104
Licking River at Catawba (d)	03253500	106
Cruises Creek at Highway 17 near Piner (c, d)	03254480	108
Banklick Creek at Hwy 1829 near Erlanger (d)	03254550	118
ELIJAHS CREEK BASIN		
Elijahs Creek at Elijahs Creek Road near Hebron (c, d)	03260100	128
WOOLPER CREEK BASIN		
Woolper Creek at Woolper Road near Burlington (c)	03262001	140
GUNPOWDER CREEK BASIN		
Gunpowder Creek at Camp Ernest Road near Union (d)	03277075	148
MUD LICK CREEK BASIN		
Mud Lick Creek at Highway 42 near Beaverlick (c, d)	03277130	158
Ohio River at Markland Dam (d)	03277200	168
KENTUCKY RIVER BASIN		
North Fork Kentucky River (head of Kentucky River):		
North Fork Kentucky River at Whitesburg (d)	03277300	170
North Fork Kentucky River at Jackson (d)	03280000	172
Middle Fork Kentucky River:		
Cutshin Creek at Wooton (d)	03280700	174
Middle Fork Kentucky River at Tallega (d)	03281000	176
Kentucky River:		
Goose Creek at Manchester (d)	03281100	178
South Fork Kentucky River at Booneville (d)	03281500	180
Kentucky River at Lock 14, at Heidelberg (d)	03282000	182
Sturgeon Creek at Cressmont (d)	03282040	184
Red River near Hazel Green (d)	03282500	186
Red River at Clay City (d)	03283500	188
Kentucky River at Lock 10, near Winchester (d)	03284000	190
Kentucky River at Lock 9, at Valley View (d)	03284230	192

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME--Continued

[Letters after station name designate type of data: (d) discharge, (g) stage, (c) chemical, (b) biological, (t) water temperature, (s) sediment]

	STATION NUMBER	Page
OHIO RIVER BASIN--Continued		
Ohio River--Continued		
KENTUCKY RIVER BASIN--Continued		
Hickman Creek:		
East Hickman Creek at Andover Village near Cadentown (d)	03284520	194
East Hickman Creek at Delong Road near East Hickman (d)	03284530	196
West Hickman Creek at Ash Grove Pike near East Hickman (d)	03284555	198
Dix River near Danville (d)	03285000	200
Spears Creek at Streamland Drive near Danville (c,g)	03285290	202
Mocks Branch at Highway 1896 near Danville (c,g)	03285335	212
KENTUCKY RIVER BASIN--Continued		
Kentucky River at Lock 7, near High Bridge (d)	03286500	222
Kentucky River at Lock 6, near Salvisa (d)	03287000	224
Kentucky River at Lock 4, at Frankfort (d)	03287500	226
Elkhorn Creek:		
North Elkhorn Creek at Bryant Road near Cadentown (d)	03287580	228
North Elkhorn Creek at Winchester Road near Lexington (d)	03287590	230
North Elkhorn Creek at Bryan Station Road at Montrose (d)	03287600	232
North Elkhorn Creek at Georgetown (d)	03288100	234
Royal Spring at Georgetown (d)	03288110	236
Cane Run at Berea Road near Donerail (d)	03288200	238
South Elkhorn Creek:		
South Elkhorn Creek at Fort Springs (d)	03289000	244
Town Branch:		
Wolf Run at Old Frankfort Pike at Lexington (d)	03289193	246
Town Branch at Yarnallton Road at Yarnallton(d)	03289200	248
South Elkhorn Creek near Midway (d)	03289300	250
Elkhorn Creek near Frankfort (d)	03289500	252
Kentucky River at Lock 2, at Lockport (d)	03290500	254
Eagle Creek at Glencoe (d)	03291500	256
HARRODS CREEK BASIN		
Harrods Creek at Hwy 329 near Goshen (d)	03292470	258
GOOSE CREEK BASIN		
Goose Creek at Old Westport Road near St. Matthews (d)	03292474	260
Goose Creek at Highway 42 at Glenview Acres (d)	03292475	262
Little Goose Creek near Harrods Creek (d)	03292480	264
BEARGRASS CREEK BASIN		
South Fork Beargrass Creek at Louisville (d)	03292500	266
South Fork Beargrass Creek at Winter Avenue at Louisville (d)	03292550	268
Middle Fork Beargrass Creek at Louisville (d)	03293000	270
Ohio River at Louisville (d)	03294500	272
MILL CREEK BASIN		
Mill Creek Cutoff near Louisville (d)	03294550	274
Mill Creek at Orell Road near Louisville (d)	03294570	276
SALT RIVER BASIN		
Salt River at Glensboro (d)	03295400	278
Brashears Creek:		
Bullskin Creek near Simpsonville (d)	03295702	280
Brashears Creek at Taylorsville (d)	03295890	282
Floyds Fork:		
Floyds Fork near Pewee Valley (d)	03297900	284
Floyds Fork at Fisherville (d)	03298000	286
Chenoweth Run at Ruckriegal Parkway near Jeffersontown (d)	03298135	288
Chenoweth Run at Gelhaus Lane near Fern Creek (d)	03298150	290
Floyds Fork at Bardstown Road near Mount Washington	03298200	292
Cedar Creek at Thixton Road near Louisville (d)	03298250	294
Pennsylvania Run at Mt. Washington Road near Louisville (d)	03298300	296
Salt River at Shepherdsville (d)	03298500	298

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME--Continued

[Letters after station name designate type of data: (d) discharge, (g) stage, (c) chemical, (b) biological, (t) water temperature, (s) sediment]

	STATION NUMBER	Page
OHIO RIVER BASIN--Continued		
Salt River Basin--Continued		
Long Lick near Clermont (d)	03298550	300
Rolling Fork:		
Beech Fork at Maud (d)	03300400	302
Beech Fork at Bardstown (d)	03301000	304
Rolling Fork near Boston (d)	03301500	306
Wilson Creek at Harrison Fork Road near Deatsville (d)	03301575	308
Mill Creek near Fort Knox (d)	03301700	310
Pond Creek:		
Southern Ditch:		
Northern Ditch:		
Fern Creek at Old Bardstown Road at Louisville (d)	03301900	312
Northern Ditch at Okolona (d)	03301940	314
Pond Creek near Louisville (d)	03302000	316
Pond Creek at Pendleton Road near Louisville (d)	03302030	318
Brier Creek at Pendleton Road near Louisville (d)	03302050	320
OTTER CREEK BASIN		
Otter Creek at Otter Creek Park near Rock Haven (d)	03302110	322
Ohio River at Cannelton Dam (d,c)	03303280	324
GREEN RIVER BASIN		
Green River:		
Green River near Campbellsville (t)	03306000	331
Green River at Greensburg (t)	03306500	333
Russell Creek near Columbia (d, t)	03307000	336
Green River at Munfordville (d,t)	03308500	340
Nolin River at White Mills (d)	03310300	344
Nolin River at Kyrock (d)	03311000	346
Green River at Lock 6 at Brownsville (t)	03311500	348
Beaver Creek at Hwy 31 E near Glasgow (d)	03312765	350
Barren River:		
West Fork Drakes Creek near Franklin (d)	03313700	352
Green River at Paradise (d)	03316500	354
Green River at Lock 2, at Calhoun (d)	03320000	356
Pond River near Apex (d)	03320500	358
Pond River near Madisonville (g)	03321060	360
WABASH RIVER BASIN		
Wabash River at New Harmony, IN (c)	03378500	362
TRADEWATER RIVER BASIN		
Tradewater River at Olney (d)	03383000	368
Ohio River at Smithland Dam (d)	03399800	370
CUMBERLAND RIVER BASIN		
CUMBERLAND RIVER:		
Martins Fork Lake at Martins Fork Dam near Smith (c,t)	03400798	372
Martins Fork near Smith (d,c,t)	03400800	396
Cumberland River near Harlan (d)	03401000	404
Yellow Creek near Middlesboro (d)	03402000	406
Cumberland River at Pine St. Bridge at Pineville (d)	03402900	408
Cumberland River at Barbourville (d)	03403500	410
Clear Fork at Saxton (d)	03403910	412
Cumberland River at Williamsburg (d)	03404000	414
Laurel River:		
Lynn Camp Creek at Corbin (d)	03404900	416
Rockcastle River at Billows (d)	03406500	418
South Fork Cumberland River near Stearns (d,c)	03410500	420

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME--Continued

[Letters after station name designate type of data: (d) discharge, (g) stage, (c) chemical, (b) biological, (t) water temperature, (s) sediment]

	STATION NUMBER	Page
OHIO RIVER BASIN--Continued		
CUMBERLAND RIVER BASIN--Continued		
Beaver Creek near Monticello (d)	03413200	422
Little River near Cadiz (d)	03438000	424
Cumberland River near Grand Rivers (c)	03438220	426
TENNESSEE RIVER BASIN		
Tennessee River at Hwy 60, near Paducah (c)	03609750	433
Clarks River at Almo (d)	03610200	438
MASSAC CREEK BASIN		
Massac Creek near Paducah (d)	03611260	440
Ohio River at Metropolis, IL (d)	03611500	442
BAYOU CREEK BASIN		
Bayou Creek near Heath (d)	03611800	444
Bayou Creek near Grahamville (d)	03611850	446
Little Bayou Creek near Grahamville (d)	03611900	448
Ohio River at Lock and Dam 53, near Grand Chain, IL (c)	03612500	450
LOWER MISSIPPI RIVER BASIN		
BAYOU DE CHEIN		
Bayou De Chein near Clinton (d)	07024000	456

GROUND-WATER WELLS, BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED GROUND-WATER LEVELS

GRAVES COUNTY	
Well 365210088391301 (Viola)	478
JEFFERSON COUNTY	
Well 381441085452701 Local number 45-14-71, (A-2)	480
Well 381442085444801 (Metro United Way)	482
Well 381445085460201 (9th & Broadway QW)	482
Well 381447085454001 Local number 45-14-66, (CJ&T #5)	482
Well 381501085445601 (UL Med.)	423
Well 381503085453301 Local number 45-15-36, (Ky. Towers)	483
Well 381504085443202 Local number CP-7A	483
Well 381517085455501 Local number 86-6	484
Well 381518085453402 Local number 86-11	486
Well 381522085445201 (LSM)	488
Well 381538085453001 Local Number 86-7	488
Well 381638085415801 Local Number 41-16-3	488
Well 381648085421201 Local Number 42-16-15	489
Well 381653085413302 Local Number WC-9A	490
Well 381701085414002 Local Number WC-8A	492
Well 381742085402001 Local Number 40-17-5	494
Well 381827085392401 Local Number 39-18-1	494
Well 381904085384801 Local Number 38-19-2	494
Well 381958085380201 (Thompson Well)	495
Well 382007085373801 (Bird Man)	495
Well 382026085374301 (Little Dean)	495
Well 382032085375601 (Staples)	496
Well 382039085375201 Local Number WP-7	498
Well 382051085380801 (LWC-1)	500
Well 382058085373501 (Shirley Avenue)	502
Well 382102085380701 (WP-19)	502
Well 382105085375101 (Hays-Kennedy)	502
Well 382120085374701 (River Fields)	503
Well 382124085375401 (Abell)	503

PRECIPITATION STATION, BY COUNTY FOR WHICH RECORD IS PUBLISHED

ROWAN COUNTY, KENTUCKY	
390706083324900	504

INTRODUCTION

Water resources data for the 2001 water year for Kentucky consist of records of stage, discharge, and water quality of streams and lakes; and water levels of wells. This report includes daily discharge records for 120 stream-gaging stations. It also includes water-quality data for 8 stations sampled at regular intervals, continuous temperature at 4 stations, and continuous water quality at eight stations. Ground-water levels are published for 7 recording and 23 partial record sites. Precipitation data at a regular interval are published for 1 site. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as miscellaneous measurement and analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Kentucky.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers titled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers titled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1944 to 1973 in a series of water-supply papers titled, "Ground-Water Levels in the United States."

Beginning with the 1961 water year and continuing through water year 2001, streamflow data have been released by the U.S. Geological Survey in annual reports on a State-boundary basis. Water-quality records beginning with the 1964 water year, and ground-water data since the 1971 water year have been similarly released either in separate reports or in conjunction with streamflow records. These reports provided rapid release of preliminary water data shortly after the end of the water year. The final data were then released in the water-supply paper series mentioned above. Beginning with the 1975 water year, water data will be released on a State-boundary basis in final form and will not be republished in the water-supply paper series. The 1975 and subsequent water year reports will be in a series which will carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report KY01-1." These reports are for sale to the public for a nominal fee by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (502) 493-1900.

COOPERATION

The U.S. Geological Survey and organizations of the Commonwealth of Kentucky have had cooperative agreements for the systematic collection of streamflow records since 1938, for ground-water records since 1943, and for water-quality records since 1949. Organizations that assisted in collecting data through cooperative agreements with the Survey are

Ohio River Valley Water Sanitation Commission, Alan Vicory, Executive Director,

Kentucky Cabinet for Health Services, Marsha Morgan, Secretary,

Kentucky Geological Survey, Dr. James C. Cobb, Director and State Geologist,

Kentucky Natural Resources and Environmental Protection Cabinet, James E. Bickford, Secretary,

Kentucky River Authority, Steve Reeder, Executive Director,

Kentucky Transportation Cabinet, James C. Codell, III, Secretary,

Bullitt County, Kenneth J. Rigdon, Judge/Executive,

Jefferson County, Rebecca D. Jackson, Judge/Executive,

Lexington-Fayette Urban County Government, Sandra M. Varellas, Judge/Executive,

City of Bardstown, William G. Brown, Mayor,

City of Georgetown, Everette L. Varney, Mayor,

City of Glasgow, Charles B. Honeycutt, Mayor,

City of Lewisburg, Joan Tooley, Mayor,

City of Lexington, Pam Miller, Mayor,

City of Louisville, David L. Armstrong, Mayor,

City of Owingsville, Clarence Rister, Mayor,

City of Simpsonville, Steve Eden, Mayor,

Kentucky Heritage Resource Conservation & Development Council, Kenneth Catlett, Chairman,

University of Louisville, Dr. John Schumaker, President, and

Assistance in the form of funds or services was given by the Federal Highway Administration; U.S. Army Corps of Engineers; the U.S. Environmental Protection Agency, Region IV--Atlanta; and the U.S. Navy.

Organizations that supplied data are acknowledged in station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS

Surface Water

Monthly and annual mean streamflow for the 2001 water year and the period of record are shown in figure 1 for three representative streamflow-gaging stations in Kentucky.

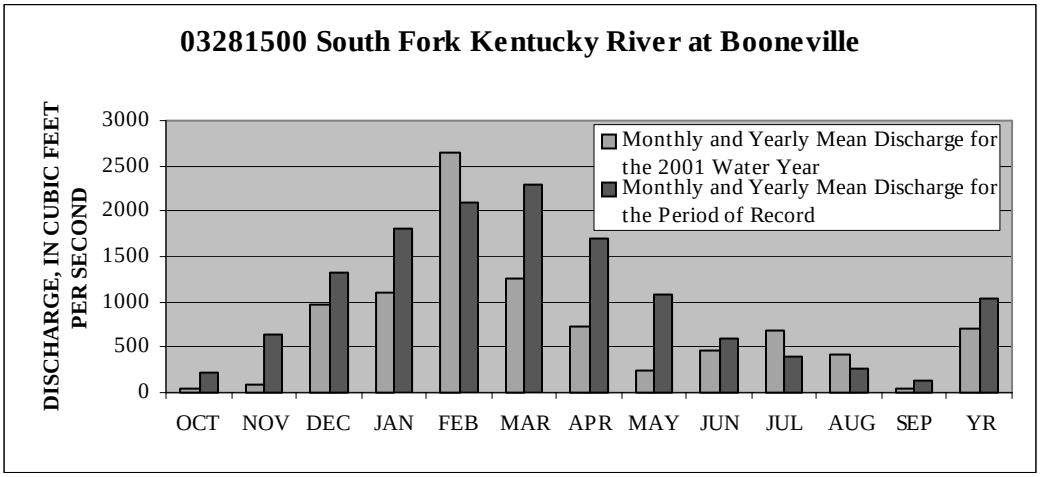
Based on flow data collected at 22 surface-water gaging stations across Kentucky, annual peak flows during the 2001 water year had recurrence intervals of less than 5 years. Most recurrence intervals across the State were less than two years with one site in the Kentucky River Basin, and one site in the Beargrass Creek Basin having a recurrence interval of less than 5 years. Most of the low flow recurrence intervals were less than two years across the State with one low flow recurrence interval in the Salt River Basin being less than twenty years (table 1).

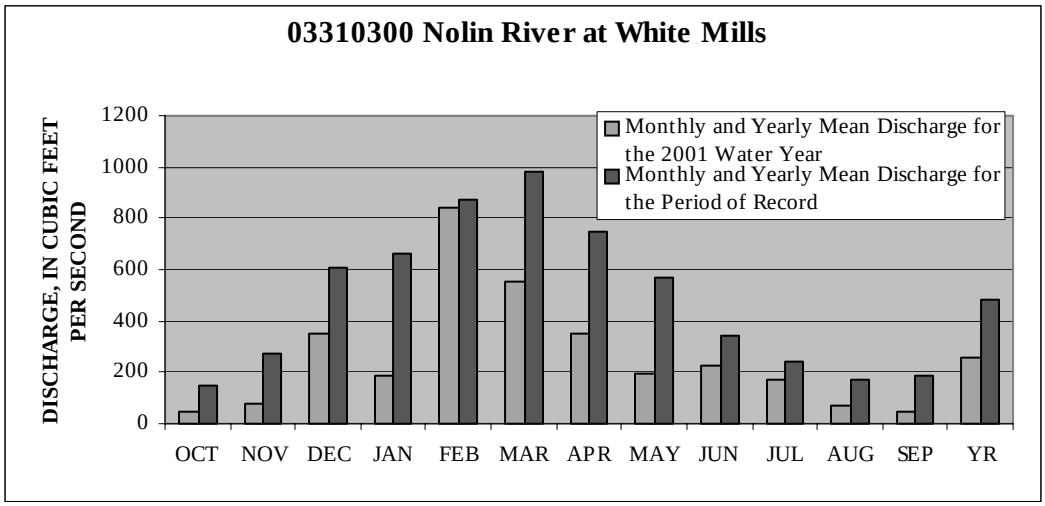
No major flooding occurred in the State during the 2001 water year. Mean daily streamflows across the State ranged from 35 to 91 percent of normal.

Quality of Water

Water-quality data were collected primarily within the National Stream Quality Accounting Network (NASQAN) program. During the 2000 water year, five NASQAN stations were operated including Ohio River at Greenup Dam near Greenup, Kentucky (03216600); Ohio River at Cannelton Dam, Kentucky (03302280); Wabash River at New Harmony, Indiana (03378500); Tennessee River at Highway 60 near Paducah, Kentucky (03609750); and the Ohio River at Grand Chain, Illinois (03612500). Each station is routinely sampled 12 times per year with biweekly sampling in April, May, and June. Three additional samples are collected at each station during an occurrence of extreme hydrologic events (high flow or low flow). The exception is the Tennessee River at Highway 60 near Paducah, Kentucky, which has completely regulated flow.

Samples are collected and analyzed for major anions and cations, nutrients, pesticides, suspended sediment, and selected physical properties. During the 2000 water year, trace element samples were collected and analyzed only 4 times per year at Tennessee River at Highway 60 near Paducah, Kentucky and the Ohio River at Grand Chain, Illinois.





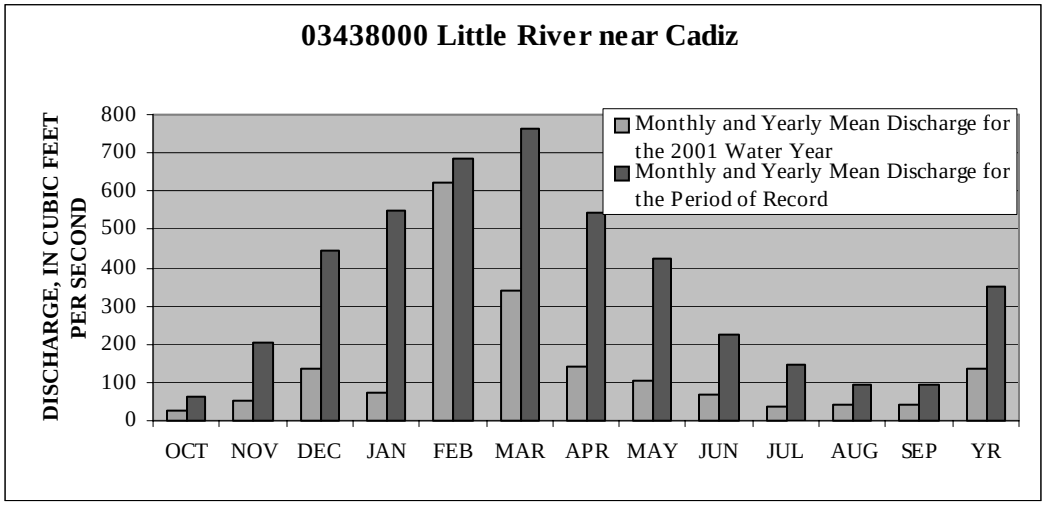


Figure 1. Mean discharge during 2001 water year and period of record for three representative gaging stations.

Table 1. Mean, maximum, and minimum streamflow for water year 2001 and recurrence intervals

Station number	Length of record (years)	Mean		Maximum		Minimum	
		Daily streamflow (ft^3/s)	Percent of average	Peak streamflow (ft^3/s)	Recurrence interval (years)	Daily streamflow (ft^3/s)	Recurrence interval (years)
			TYGARTS CREEK BASIN				
03217000	61	227	74	6920	<2	0.43	<10
			LICKING RIVER BASIN				
03251200	10	208	70	4970	<2	0.29	
			KENTUCKY RIVER BASIN				
03280700	44	54.6	60	3540	<2	2.1	<2
03281100	37	178	69	5830	<2	4.2	<2
03281500	68	714	68	17300	<2	9.7	<2
03282500	46	66.8	77	2100	<2	0.76	<2
03283500	64	371	75	10100	<5	20	<2
03285000	59	245	52	7250	<2	1.6	<2
			BEARGRASS CREEK BASIN				
03293000	57	23.0	91	1900	<5	0.95	<10
			SALT RIVER BASIN				
03298000	57	106	59	6510	<2	1.0	<2
03300400	29	337	55	15300	<2	0.50	<20
03301500	63	851	48	16800	<2	14	<2
			GREEN RIVER BASIN				
03307000	62	143	49	4050	<2	4.2	<10
03310300	42	257	53	3290	<2	35	=10
03320500	61	94.6	35	2430	<2	0.60	<2
			CUMBERLAND RIVER BASIN				
03404900	28	49.4	58	1430	<2	0.65	<10
03406500	65	547	59	13300	<2	16	<2
03410500	59	951	54	36800	<2	31	<10
03438000	61	137	39	2820	<2	17	<10
			MASSAC CREEK BASIN				
03611260	30	7.75	46	638	<2	0.54	<2
			BAYOU DE CHIEN BASIN				
07024000	56	55.4	54	1600	<2	16	<2

A water-quality study related to the environmental effects of coal mining was started in June 1999 on the Big South Fork River to assist the National Park Service in their assessment of remedial activities in the Big South Fork National River and Recreation Area and the Big South Fork watershed. The selected stations for water-quality monitoring include the Big South Fork near Stearns, Kentucky (03410600) and Big South Fork near Yamacraw,

Kentucky (03410500). Selection of these stations allow investigators to assess any changes in the water-quality of the Big South Fork River from the upstream station (03410600) to the downstream station (03410500) during the abatement of contaminated mine drainage. Each station is sampled every six weeks. The water-quality samples collected are analyzed for major cations and selected trace elements. Temperature, conductivity, and pH are continuously monitored at each station. This study ended in August 2000.

QUALITY-CONTROL DATA

Data generated from quality-control (QC) samples (table 2) are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by the Kentucky District for the NASQAN program and the Big South Fork study are described in the following section. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples.

BLANK SAMPLES

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated by the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. There are many types of blank samples possible, each designed to segregate a different part of the overall data-collection process. The types of blank samples collected by this district are:

Field blank: a blank solution that is subjected to all aspects of sample collection, field processing, preservation, transportation, and laboratory handling as an environmental sample.

Trip blank: a blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank: A blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in a more controlled environment such as the office).

REPLICATE SAMPLES

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some portion of the collection and analytical process. There are many types of replicate samples possible, each of which may yield slightly different results in a dynamic hydrologic settings, such as a flowing stream. The types of replicates collected by this district are:

Concurrent sample: a type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating collection of samples into two or more compositing containers.

Sequential sample:a type of replicate sample in which the samples are collected one after the other, typically over a short period of time.

SPIKE SAMPLES

Spike samples are sample to which known quantities of a solution with one or more well established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

Ground-Water Levels

Most currently monitored observation wells tap the alluvial aquifer underlying Downtown Louisville and northeast Jefferson County.

Ground-water levels in the alluvial aquifer underlying Louisville and northeast Jefferson County respond to rainfall, pumpage, river stage, and natural flow to the Ohio River. In general many of the water levels in the downtown area are lower than normal. Five wells reached record lows for the period of record. This decline is probably due to the low rates of recharge during the drought conditions of 1999-2000. All of the wells measured in Northeast Jefferson County reached record lows for their period of record. This is probably caused by low recharge condition and sustained pumpage in the area.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 39 stations. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to accomplish the following objectives; (1) Provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 191 precipitation chemistry monitoring sites. (2) Provide the mechanism to evaluate the effectiveness of the significant reduction in SO2 emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred. (3) Provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO2 and NOx scheduled to begin in 2000.

Data from the network, as well as information about individual sites, are available through the world wide web at:

http://nadp.sws.uiuc.edu/

Table 2. Summary of quality-control field blank samples for selected nutrients, major ions, and trace elements collected at NASQAN stations from October 1995 through September 2001
[LRL, laboratory reporting level limit; N, number of samples; <, less than; nutrient and major ion concentrations in milligrams per liter; trace element concentrations in micrograms per liter]

Analyte	Blanks				
	LRL	N	N>MDL	Minimum	Maximum
A. Dissolved nutrients					
Ammonia nitrogen	0.04	61	0	<.002	.02
Nitrite plus nitrate nitrogen	.05	61	1	<.005	1.1
Orthophosphorus	.007	61	1	<.001	.01
B. Dissolved major ions					
Calcium	.01	63	8	<.002	.47
Magnesium	.008	63	5	<.001	.104
Sodium	.09	63	4	<.025	.20
C. Dissolved trace elements					
Copper	.23	59	5	<.2	2.3
Iron	10	63	0	3.0	10
Lead	.3	59	2	.3	.82
Manganese	.1	59	5	.10	.50
Zinc	1.0	59	17	.50	25

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 53 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies.

Additional information about the NAWQA Program is available through the world wide web at:

http://wwwrvares.er.usgs.gov/nawqa/nawqa_home.html

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 2001 water year that began October 1, 2000, and ended September 30, 2001. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, and water-quality data for surface-water gaging stations. The locations of the stations and wells where the data were collected are shown in figures 3-10. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (μg/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Present data above the μg/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey will begin using new trace-element protocols in the near future.

Station Identification Numbers

Each data station, whether stream site or well, in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells, and in Kentucky for surface-water stations where only miscellaneous measurements are made.

Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indention in the "List of Stations" in the front of this report. Each indention represents one rank. This downstream order and system of indention shows which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-digit number for each station, such as 03208000, which appears just to the left of the station name, includes the two-digit Part number "03" plus the six-digit downstream-order number "208000." The Part number designates the major river basin; for example, Part "03" is the Ohio River Basin.

Latitude-Longitude System

The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description (fig.2).

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record.

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records."

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage."

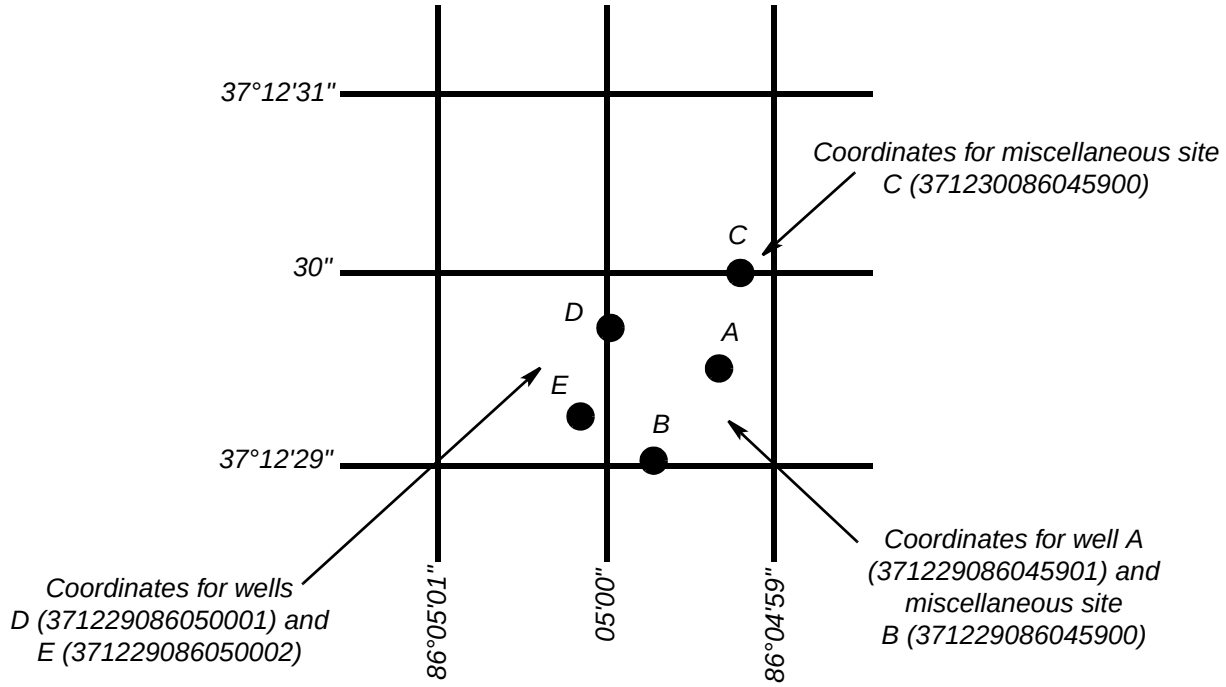


Figure 2. System for numbering wells, springs, and miscellaneous sites (latitude and longitude).

Continuous records of stage are obtained with data-collection platforms which transmit stage or with digital recorders that punch stage values on paper tapes at selected time intervals. Measurements of discharge are made with current meters using methods adopted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, Chapter A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow over dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations, the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

For some gaging stations, there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

Streamflow data in this report are presented in a new format that is considerably different from the format in data reports prior to the 1991 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data table and less information is provided in the text or station manuscript above the table. These changes represent the results of a pilot program to reformat the annual water-data report to meet current user needs and data preferences.

The records published for each continuous-record surface-water discharge station (gaging station) now consists of four parts, the manuscript or station description; the data table of daily mean values of discharge for the current water year with summary data; a tabular statistical summary of monthly mean flow data for a designated period, by water year; and a summary statistics table that included statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration.

Station Manuscript

The manuscript provides, under various headings, descriptive information such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gaging station with respect to the cultural and physical features in the vicinity and with respect to the referenced place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available vary from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which records have been published for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that flow at it can reasonably be considered equivalent to flow at the present station.

REVISED RECORDS.--Because of new information, published records occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see glossary), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily discharge will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a REMARKS paragraph is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and possibly to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records or funding provided by a cooperating organization or obtained for the U.S. Geological Survey by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the District Office (address given on the back of the title page of this report) to determine if the published records were ever revised after the station was discontinued. Of course, if the data for a discontinued station were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

Headings for AVERAGE DISCHARGE, EXTREMES FOR PERIOD OF RECORD, AND EXTREMES FOR CURRENT YEAR have been deleted and the information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges in the EXTREMES FOR CURRENT YEAR paragraph, is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph, as appropriate. No changes have been made to the data presentations of lake contents.

Data Table of Daily Mean Values

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed "TOTAL" gives the sum of the daily figures for each month; the line headed "MEAN" gives the average flow in cubic feet per second for the month; and the lines headed "MAX" and "MIN" give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"); or in inches (line headed "IN"); or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if there is extensive regulation or diversion or if the drainage area included large noncontributing areas. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Statistics of Monthly Mean Data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEARS __-__, BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary Statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period as appropriate. The designated period selected, "WATER YEARS __-__," will consist of all the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the

manuscript. All of the calculations for the statistical characteristics designated ANNUAL (see line headings below), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the various line headings of the summary statistics table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.--The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.--The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climactic year (April 1–March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic).

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the District Office. (See address on back of title page of this report.)

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.--Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.

Inches (INCHES) indicates the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.--The discharge that is exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.--The discharge that is exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.--The discharge that is exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow records depends primarily on: (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements; and (2) the accuracy of measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of their true values; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft^3/s; to the nearest tenth between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to three significant figures for more than 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff, in inches, are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Records Available

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables is on file in the Kentucky District. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the office whose address is given on the back of the title page of this report.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records," as used in this report, and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape or recorded electronically. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figures 7 and 8.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

On-Site Measurements and Sample Collection

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made on-site when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4. All of these references are listed under "PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS" which appears at the end of the introductory text. Detailed information on collecting, treating, and shipping samples may be obtained from the Kentucky District.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals depends on flow conditions and other factors which must be evaluated by the collector.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the Kentucky District whose address is given on the back of the title page of this report.

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the Kentucky District office.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

Laboratory Measurements

Sediment samples, samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the Geological Survey laboratory in Arvada, Colorado. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the Geological Survey laboratory are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remarks Codes

The following remark codes may appear with the water-quality data in this section:

PRINT OUTPUT	REMARK
E	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
V	Analyte was detected in both the environmental sample and the associated blanks
&	Biological organism estimated as dominant.

Dissolved Trace-Element Concentrations

*NOTE.--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (µg/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the µg/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994.

Change in National Trends Network Procedures

*NOTE.--Sample handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences based on

a special intercomparison study, is available from the NADP Program Office, Illinois State Water Survey, 2204 Griffith Drive, Champaign, IL 61820-7495 (217-333-7873.

Records of Ground-Water Levels

Water-level data from selected observation wells are given in this report. These data are intended to provide a sampling and historical record of water-level changes. Locations of observation wells in Kentucky are shown in figures 9 and 10.

Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number.

Water-level records are obtained from direct measurements with a steel tape or from a water-level recorder. The water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description.

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given to a tenth of a foot or a larger unit.

Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented under the various headings.

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic-unit number; the distance and direction from a geographic point of reference; and the owner's name.

AQUIFER.--This entry designates by name (if a name exists) and geologic age the aquifer(s) open to the well.

WELL CHARACTERISTICS.--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

INSTRUMENTATION.--This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on weekly, monthly, or some other frequency of measurement.

DATUM.--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base, and so on) and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) National Geodetic Vertical Datum of 1929 (NGVD of 1929); it is reported with a precision depending on the method of determination.

REMARKS.--This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that also are water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers.

PERIOD OF RECORD.--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the Geological Survey, may be noted.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of published record, with respect to land-surface datum, and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet below land-surface datum and all taped measurements of water level are listed. The highest and lowest water levels of the water year and their dates of occurrence are shown on a line below the table. Because all values are not published for wells with recorders, the extremes may be values that are not listed in the table. Missing records are indicated by dashes in place of the water level.

Records of Precipitation Quality

The precipitation-quality data presented in this report represent analyses of time-composite samples, most often for a collection period of one week. This is in contrast to most of the published surface-water quality data which represent samples taken of specific times.

On-Site Measurements and Sample Collection

Precipitation samples are collected with wet/dry collectors. The wet/dry collector is the preferred precipitation sampler and consists of a bucket which is open only during periods of wet (rainfall, snow, etc.) precipitation. During dry periods the sample bucket is covered, thus excluding dry-fall precipitation from the sample.

National Trends Network (NTN) stations are equipped with weighing-bucket rain gages, which graphically record rainfall as well as count rainfall events. The other commonly-used recording gage consists of a rainfall catchment pipe and a float-driven digital recorder which periodically records the water-level in the pipe.

Time-composite wet-precipitation samples are collected and brought back to the laboratory and weighed. Rainfall quantity is estimated from the sample weight. A temperature-density correction can be applied if desired but normally this correction results in a very small change in the estimated quantity of rainfall. An estimation of the sampler efficiency is made by computing the ratio of rainfall amount collected in the sample bucket to that measured by the recording rain gage. This collector efficiency ratio is an important indicator of possible collector malfunction. For example, a ratio substantially less than one indicates that the wet/dry collector was not opening properly and thus, excluding rainfall.

After weighing the sample, a small portion is removed for measurement of pH, specific conductance, and, in some instances, titratable acidity. The pH and special conductance are both determined electrometrically according to methods described in the National Atmospheric Deposition Program "NADP Instruction Manual: Site Operation." The remainder of the sample is then used for laboratory chemical analyses. This portion of the sample is shipped to the laboratory raw and untreated. In the case of NTN operation, the original bucket is resealed and mailed to the Illinois State Water Survey Central Analytical Laboratory (CAL) for analysis. In all other instances, sample portions are preserved, treated, and analyzed according to specific project requirements.

Data Presentation

Records of precipitation quality are published following the "records of ground-water" section of this report. As with records of daily water discharge and surface-water quality, precipitation-quality records consist of two parts, a station header and a data table. The station header contains the descriptive information pertinent to the establishment, location, and operation of the site. Records are presented alphabetically by county and, within each county, by latitude, longitude, and sequence number. As with ground-water wells, the primary site identifier used for precipitation-quality stations in this report is the 15-digit composite of these three numbers. The following text presents a clarification of the subheadings which follow the station identification number and station name.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published precipitation-quality records for the station. Periods of record are presented separately for each type of sample collected at the site (in this report, wet precipitation, dry precipitation, and fog).

INSTRUMENTATION.--In this section, an abbreviated-style listing of the data-recording and sample-collection equipment permanently housed at the site is presented.

REMARKS.--This section is reserved for comments pertaining to unusual or extraordinary circumstances or to qualifying information which must be used accurately interpret the data presented for the site. More general comments which may pertain to several or all of the sites are presented in the "EXPLANATION OF RECORDS" section in the introductory part of the report.

COOPERATION.--Chemical-quality data were provided by National Atmospheric Deposition Program.

ACCESS TO USGS DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the world wide web (WWW). These data may be accessed at http://www.water.usgs.gov.

Some water-quality and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on magnetic tape or 3-1/2 inch floppy disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division Districts Offices (See address on the back of the title page).

Water Quality-Control Data

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this district are described in the following section.

Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples.

Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated by the over all data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. There are many types of blank samples possible, each designed to segregate a different part of the overall data-collection process. The types of blank samples collect in this district are:

Field blank- a blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank- a blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank- a blank solution that is oricessed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

Sampler blank- a blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Filter blank- a blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter bank- a blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank- a blank solution that is treated with the sampler preservatives used for an environmental sample.

Reference Samples

Reference material is a solution or material prepared by a laboratory whose composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

Replicate Samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. There are many types of replicate samples possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this district are: Sequential samples- a type of replicate sample in which the samples are collected one after the other, typically over a short time.

Split sample- a type of replicate sample in which a sample is split into subsamples contemporaneous in time and space.

Spike Samples

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing analysis.

DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Terms such as algae, water level, precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting English units to International System (SI) Units on the inside of the back cover.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

Acre-foot (AC-FT, acre-ft) is a unit of volume, commonly used to measure quantities of water used or stored, equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters. (See also "Annual runoff")

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes ATP an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

Annual runoff is the total quantity of water that is discharged ("runs off") from a drainage basin in a year. Data reports may present annual runoff data as volumes in acre-feet, as discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches.

Annual 7-day minimum is the lowest mean value for any 7-consecutive-day period in a year. Annual 7-day minimum values are reported herein for the calendar year and the water year (October 1 to September 30). Most low-flow frequency analyses use a climatic year (April 1-March 31), which tends to prevent the low-flow period from being artificially split between adjacent years. The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

Aroclor is the registered trademark for a group of polychlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type and the last two digits represent the weight percent of the hydrogen substituted chlorine.

Artificial substrate is a device that is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection. (See also "Substrate")

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2). (See also "Biomass")

Bacteria are microscopic unicellular organisims, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Base discharge (for peak discharge) is a discharge value, determined for selected stations, above which peak discharge data are published. The base discharge at each station is selected so that an average of about three peaks per year will be published.

Base flow is sustained flow of a stream in the absence of direct runoff. It includes natural and human-induced streamflows. Natural base flow is sustained largely by ground-water discharge.

Bedload is material in transport that is supported primarily by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to an elevation equal to the top of the bedload sampler nozzle (ranging from 0.25 to 0.5 ft) that are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler may also contain a component of the suspended load.

Bedload discharge (tons per day) is rate of sediment moving as bedload, reported as dry weight, that passes through a cross section in a given time. NOTE: Bedload discharge values in this report may include a component of the suspended-sediment discharge. A correction may be necessary when computing the total sediment discharge by summing the bedload discharge and the suspended-sediment discharge. (See also “Bedload” and “Sediment”)

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed. (See also “Bedload” and “Sediment”)

Benthic organisms are the group of organisms inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as mass per unit area or volume of habitat.

Biomass pigment ratio is an indicator of the total proportion of periphyton which are autotrophic (plants). This is also called the Autotrophic Index.

Blue-green algae (*Cyanophyta*) are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample. (See also “Phytoplankton”)

Bottom material (See “Bed material”)

Cells/volume refers to the number of cells of any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample volume, and are generally reported as cells or units per milliliter (mL) or liter (L).

Cells volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently used in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (μm^3) is determined by obtaining critical cell measurements on cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

$$\text{sphere } 4/3\ \pi r^3 \quad \text{cone } 1/3\ \pi r^3 h \quad \text{cylinder } \pi r^3 h.$$

pi is the ratio of the circumference to the diameter of a circle; pi = 3.14159…
From cell volume, total algal biomass expressed as biovolume (μm^3/mL) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes over all species.

Cfs-day (See “Cubic foot per second-day”)

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes. [See also “Biochemical oxygen demand (BOD)”]

Clostridium perfringens *(C. perfringens)* is a spore-forming bacterium that is common in the feces of human and other warm-blooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and presence of microorganisms that are resistant to disinfection and environmental stresses. (See also “Bacteria”)

Coliphages are viruses that infect and replicate in coliform bacteria. They are indicative of sewage contamination of waters and of the survival and transport of viruses in the environment.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well. (See also “Aquifer”)

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Continuous-record station is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.

Control designates a feature in the channel downstream from a gaging station that physically influences the water-surface elevation and thereby determines the stage-discharge relation at the gage. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (CFS, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second or approximately 449 gallons per minute, or 0.02832 cubic meters per second. The term “second-feet” sometimes is used synonymously with “cubic feet per second” but is now obsolete.

Cubic foot per second-day (CFS-DAY, Cfs-day, [$(ft^3/s)/d$]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily-mean discharges reported in the daily-value data tables are numerically equal to the daily volumes in cfs-days, and the totals also represent volumes in cfs-days.

Cubic foot per second per square mile [CFSM, $(ft^3/s)/mi^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area. (See also “Annual runoff”)

Daily mean suspended-sediment concentration is the time-weighted concentration of suspended sediment passing a stream cross section during a 24-hour day. (See also “Daily mean suspended-sediment concentration,” “Sediment,” and “Suspended-sediment concentration”)

Daily-record station is a site where data are collected with sufficient frequency to develop a record of one or more data values per day. The frequency of data collection can range from continuous recording to periodic sample or data collection on a daily or near-daily basis.

Data Collection Platform (DCP) is an electronic instrument that collects, processes, and stores data from various sensors, and transmits the data by satellite data relay, line-of-sight radio, and/or landline telemetry.

Data logger is a microprocessor-based data acquisition system designed specifically to acquire, process, and store data. Data are usually downloaded from onsite data loggers for entry into office data systems.

Datum is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a horizontal datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or UTM coordinates. (See also “Gage datum,” “Land-surface datum,” “National Geodetic Vertical Datum of 1929,” and “North American Vertical Datum of 1988”)

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also “Phytoplankton”)

Diel is of or pertaining to a 24-hour period of time; a regular daily cycle.

Discharge, or flow, is the rate that matter passes through a cross section of a stream channel or other water body per unit of time. The term commonly refers to the volume of water (including, unless otherwise stated, any sediments or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, pipeline, etc., within a given period of time (cubic feet per second). Discharge also can apply to the rate at which constituents such as suspended sediment, bedload, and dissolved or suspended chemical constituents, pass through a cross section, in which cases the quantity is expressed as the mass of constituent that passes the cross section in a given period of time (tons per day).

Dissolved refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal and State agencies that collect water-quality data. Determinations of “dissolved” constituent concentrations are made on sample water that has been filtered.

Dissolved oxygen (DO) is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved-solids concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration in water is the quantity of dissolved material in a sample of water. It is determined either analytically by the “residue-on-evaporation” method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L $CaCO_3$) can be converted to carbonate concentration by multiplying by 0.60.

Diversity index (H) (Shannon Index) is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i \approx 1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area upstream from the location, measured in a horizontal plane, that has a common outlet at the site for its surface runoff from precipitation that normally drains by gravity into a stream. Drainage areas given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth’s surface that contains a drainage system with a common outlet for its surface runoff. (See “Drainage area”)

Dry mass refers to the mass of residue present after drying in an oven at 105 °C, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass. (See also “Ash mass,” “Biomass,” and “Wet mass”)

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue. (See also “Wet weight”)

Enterococcus bacteria are commonly found in the feces of humans and other warm-blooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar and subsequent transfer to EIA medium. Enterococci include *Streptococcus feacalis, Streptococcus feacium, Streptococcus avium,* and their variants. (See also “Bacteria”)

EPT Index is the total number of distinct taxa within the insect orders Ephemeroptera, Plecoptera, and Trichoptera. This index summarizes the taxa richness within the aquatic insects that are generally considered pollution sensitive, the index usually decreases with pollution.

Escherichia coli (E. coli) are bacteria present in the intestine and feces of warm-blooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on mTEC medium. Their concentrations are expressed as number of colonies per 100 mL of sample. (See also “Bacteria”)

Estimated (E) value of a concentration is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an ‘E’ code will be reported with the value. If the analyte is qualitatively identified as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an ‘E’ code even though the measured value is greater than the MDL. A value reported with an ‘E’ code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less than sign (<).

Euglenoids (*Euglenophyta*) are a group of algae that are usually free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark. (See also “Phytoplankton”)

Extractable organic halides (EOX) are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semi-volatile and extractable by ethyl acetate from air-dried streambed sediments. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the streambed sediments.

Fecal coliform bacteria are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5 °C plus or minus 0.2 °C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also “Bacteria”)

Fecal streptococcal bacteria are present in the intestine of warm-blooded animals and are ubiquitous in the environment. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also “Bacteria”)

Fire algae (*Pyrrhophyta*) are free-swimming unicells characterized by a red pigment spot. (See also “Phytoplankton”)

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

Gage datum is a horizontal surface used as a zero point for measurement of stage or gage height. This surface usually is located slightly below the lowest point of the stream bottom such that the gage height is usually slightly larger than the maximum depth of water. Because the gage datum itself is not an actual physical object, the datum usually is defined by specifying the elevations of permanent reference marks such as bridge abutments and survey

monuments, and the gage is set to agree with the reference marks. Gage datum is a local datum that is maintained independently of any National geodetic datum. However, if the elevation of the gage datum relative to the National datum (North American Vertical Datum of 1988 or National Geodetic Vertical Datum of 1929) has been determined, then the gage readings can be converted to elevations above the National datum by adding the elevation of the gage datum to the gage reading.

Gage height (G.H.) is the water-surface elevation, in feet above the gage datum. If the water surface is below the gage datum, the gage height is negative. Gage height is often used interchangeably with the more general term “stage,” although gage height is more appropriate when used in reference to a reading on a gage.

Gage values are values that are recorded, transmitted and/or computed from a gaging station. Gage values typically are collected at 5-, 15-, or 30-minute intervals.

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Gas chromatography/flame ionization detector (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating “moss” in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also “Phytoplankton”)

Habitat quality index is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the reach sampled. Scores range from 0 to 100 percent with higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations (primarily calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate ($CaCO_3$).

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. *See NOAA web site: http://www.co-ops.nos.noaa.gov/tideglos.html*

Hilsenhoff’s Biotic Index (HBI) is an indicator of organic pollution which uses tolerance values to weight taxa abundances; usually increases with pollution. It is calculated as follows:

$$\mathrm{HBI} = \mathrm{sum}\frac{(n)(a)}{N}$$

where *n* is the number of individuals of each taxon, a is the tolerance value of each taxon, and *N* is the total number of organisms in the sample.

Horizontal datum (See “Datum”)

Hydrologic benchmark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a benchmark station may be used to separate effects of natural from human-induced changes in other basins that have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped benchmark basin.

Hydrologic index stations referred to in this report are four continuous-record gaging stations that have been selected as representative of streamflow patterns for their respective regions. Station locations are shown on index maps.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the USGS. Each hydrologic unit is identified by an 8-digit number.

Inch (IN., in.), as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were uniformly distributed on it. (See also “Annual runoff”)

Instantaneous discharge is the discharge at a particular instant of time. (See also “Discharge”)

Laboratory Reporting Level (LRL) is generally equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a non-detection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a “less than” (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually based on the most current quality-control data and may, therefore, change. [Note: In several previous NWQL documents (Connor and others, 1998; NWQL Technical Memorandum 98.07, 1998), the LRL was called the non-detection value or NDV—a term that is no longer used.)

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation

$$I = I_o e^{-\lambda L},$$

where I_o is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light attenuation coefficient is defined as

$$\lambda = -\frac{1}{L}\log_e\frac{I}{I_o} .$$

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Long-Term Method Detection Level (LT–MDL) is a detection level derived by determining the standard deviation of a minimum of 24 method detection limit (MDL) spike sample measurements over an extended period of time. LT–MDL data are collected on a continuous basis to assess year-to-year variations in the LT–MDL. The LT–MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT–MDL for a sample that did not contain the analyte is predicted to be less than or equal to 1 percent.

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. *See NOAA web site: http://www.co-ops.nos.noaa.gov/tideglos.html*

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that are usually arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Mean concentration of suspended sediment (Daily mean suspended-sediment concentration) is the time-weighted concentration of suspended sediment passing a stream cross section during a given time period. (See also “Daily mean suspended-sediment concentration” and “Suspended-sediment concentration”)

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period. (See also “Discharge”)

Mean high or low tide is the average of all high or low tides, respectively, over a specific period.

Mean sea level is a local tidal datum. It is the arithmetic mean of hourly heights observed over the National Tidal Datum Epoch. Shorter series are specified in the name; for example, monthly mean sea level and yearly mean sea level. In order that they may be recovered when needed, such datums are referenced to fixed points known as benchmarks. (See also “Datum”)

Measuring point (MP) is an arbitrary permanent reference point from which the distance to water surface in a well is measured to obtain water level.

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Method Detection Limit (MDL) is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G, µg/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per kilogram (UG/KG, µg/kg) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. One microgram per liter is equivalent to 1 part per billion.

Microsiemens per centimeter (US/CM, µS/cm) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L and is based on the mass of dry sediment per liter of water-sediment mixture.

Minimum Reporting Level (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method (Timme, 1995).

Miscellaneous site, miscellaneous station, or miscellaneous sampling site is a site where streamflow, sediment, and/or water-quality data or water-quality or sediment samples are collected once, or more often on a random or discontinuous basis to provide better areal coverage for defining hydrologic and water-quality conditions over a broad area in a river basin.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It was formerly called “Sea Level Datum of 1929” or “mean sea level.” Although the datum was derived from the mean sea level at 26 tide stations**,** it does not necessarily represent local mean sea level at any particular place. *See NOAA web site: http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88* (See “North American Vertical Datum of 1988”)

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives. (See also “Substrate.”)

Nekton are the consumers in the aquatic environment and consist of large free-swimming organisms that are capable of sustained, directed mobility.

Nephelometric turbidity unit (NTU) is the measurement for reporting turbidity that is based on use of a standard suspension of Formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

North American Vertical Datum of 1988 (NAVD 1988) is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the U.S. This datum was established in 1991 by minimum-constraint adjustment of the Canadian**,** Mexican, and U.S. first-order terrestrial leveling networks.

Open or screened interval is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediments. May be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC).

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass. (See also “Ash mass,” “Biomass,” and “Dry mass”)

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

Parameter Code is a 5-digit number used in the USGS computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method utilizes the principle of Stokes Law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, Sedigraph) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification, as used in this report, agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	0.00024 - 0.004	Sedimentation
Silt	0.004 - 0.062	Sedimentation
Sand	0.062 - 2.0	Sedimentation/sieve

Gravel	2.0	- 64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Peak flow (peak stage) is an instantaneous local maximum value in the continuous time series of streamflows or stages, preceded by a period of increasing values and followed by a period of decreasing values. Several peak values ordinarily occur in a year. The maximum peak value in a year is called the annual peak; peaks lower than the annual peak are called secondary peaks. Occasionally, the annual peak may not be the maximum value for the year; in such cases, the maximum value occurs at midnight at the beginning or end of the year, on the recession from or rise toward a higher peak in the adjoining year. If values are recorded at a discrete series of times, the peak recorded value may be taken as an approximation to the true peak, which may occur between the recording instants. If the values are recorded with finite precision, a sequence of equal recorded values may occur at the peak; in this case, the first value is taken as the peak.

Percent composition or **percent of total** is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, mass, or volume.

Percent shading is determined by using a clinometer to estimate left and right bank shading. The values are added together and divided by 180 to determine percent shading relative to a horizontal surface.

Periodic-record station is a site where stage, discharge, sediment, chemical, physical, or other hydrologic measurements are made one or more times during a year, but at a frequency insufficient to develop a daily record.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7 are termed “acidic,” and solutions with a pH greater than 7 are termed “basic.” Solutions with a pH of 7 are neutral. The presence and concentration of many dissolved chemical constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

Phytoplankton is the plant part of the plankton. They are usually microscopic, and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and are commonly known as algae. (See also “Plankton”)

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields 3.7×10^{10} radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/mL of sample).

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated naphthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary produc-

tion is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [mg C/(m^2/time)] for periphyton and macrophytes or per volume [mg C/(m^3/time)] for phytoplankton. Carbon method defines the amount of carbon dioxide consumed as measured by
radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period. (See also “Primary productivity”)

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [mg O/(m^2/time)] for periphyton and macrophytes or per volume [mg O/(m^3/time)] for phytoplankton. Oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period. (See also “Primary productivity”)

Radioisotopes are isotopic forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

Recoverable from bed (bottom) material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. (See also “Bed material”)

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or non-exceedance of a specified low flow). The terms “return period” and “recurrence interval” do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day 10-year low flow ($7Q_{10}$) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the non-exceedances of the $7Q_{10}$ occur less than 10 years after the previous non-exceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous non-exceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the $7Q_{10}$.

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

Return period (See “Recurrence interval”)

River mileage is the curvilinear distance, in miles, measured upstream from the mouth along the meandering path of a stream channel in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council, and typically used to denote location along a river.

Runoff is the quantity of water that is discharged ("runs off") from a drainage basin in a given time period. Runoff data may be presented as volumes in acre-feet, as mean discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches. (See also "Annual runoff")

Sea level, as used in this report, refers to one of the two commonly used national vertical datums, (NGVD 1929 or NAVD 1988). See separate entries for definitions of these datums. See conversion of units page (inside back cover) for identification of the datum used in this report.

Sediment is solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as "fluvial sediment." Sediment includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of precipitation.

Seven-day 10-year low flow (7Q10) is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-run average. The recurrence interval of the 7Q10 is 10 years; the chance that the annual 7-day minimum flow will be less than the 7Q10 is 10 percent in any given year. (See also "Recurrence interval" and "Annual 7-day minimum")

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

Specific electrical conductance (conductivity) is a measure of the capacity of water (or other media) to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific electrical conductance is a function of the types and quantity of dissolved substances in water and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stable isotope ratio (per MIL/MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific waters, to evaluate mixing of different waters, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage (See "Gage height")

Stage-discharge relation is the relation between the water-surface elevation, termed stage (gage height), and the volume of water flowing in a channel per unit time.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Substrate Embeddedness Class is a visual estimate of riffle streambed substrate larger than gravel that is surrounded or covered by fine sediment (<2mm, sand or finer). Below are the class categories expressed as percent covered by fine sediment:

0	< no gravel or larger substrate		
1	> 75%		
2	51-75%	4	5-25%
3	26-50%	5	< 5%

Surface area of a lake is that area (acres) encompassed by the boundary of the lake as shown on USGS topographic maps, or other available maps or photographs. Because surface area changes with lake stage, surface areas listed in this report represent those determined for the stage at the time the maps or photographs were obtained.

Surficial bed material is the upper surface (0.1 to 0.2 ft) of the bed material such as that material which is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is operationally defined as the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative suspended water-sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. Determinations of "suspended, recoverable" constituents are made either by directly analyzing the suspended material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent. (See also "Suspended")

Suspended sediment is the sediment maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid. (See also "Sediment")

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The analytical technique uses the mass of all of the sediment and the net weight of the water-sediment mixture in a sample to compute the suspended-sediment concentration. (See also "Sediment" and "Suspended sediment")

Suspended-sediment discharge (tons/day) is the rate of sediment transport, as measured by dry mass or volume, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027. (See also "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Suspended-sediment load is a general term that refers to a given characteristic of the material in suspension that passes a point during a specified period of time. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with either suspended-sediment discharge or concentration. (See also "Sediment")

Suspended, total is the total amount of a given constituent in the part of a water-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total." Determinations of "suspended, total" constituents are made either by directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent. (See also "Suspended")

Suspended solids, total residue at 105 °C concentration is the concentration of inorganic and organic material retained on a filter, expressed as milligrams of dry material per liter of water (mg/L). An aliquot of the sample is used for this analysis.

Synoptic studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxa richness is the total number of distinct species or groups and usually decreases with pollution. (See also "Percent Shading")

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

Kingdom:	Animal
Phylum:	Arthropoda

Class:	Insecta
Order:	Ephemeroptera
Family:	Ephemeridae
Genus:	*Hexagenia*
Species:	*Hexagenia limbata*

Temperature preferences:

Cold – preferred water temperature for the species is less than 20 °C or spawning temperature preference less than 16 °C and native distribution is considered to be predominantly north of 45° N. latitude.

Warm – preferred water temperatures for the species is greater than 20 °C or spawning temperature preference greater than 16 °C and native distribution is considered to be predominantly south of 45° N. latitude.

Cool – intermediate between cold and warm water temperature preferences.

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder' is used in the table descriptions and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water resulting from the mixing of flow proportionally to the duration of the concentration.

Tons per acre-foot (T/acre-ft) is the dry mass (tons) of a constituent per unit volume (acre-foot) of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY, tons/d) is a common chemical or sediment discharge unit. It is the quantity of a substance in solution, in suspension, or as bedload that passes a stream section during a 24-hour period. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

Total is the amount of a given constituent in a representative whole-water (unfiltered) sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined at least 95 percent of the constituent in the sample.)

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warm-blooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Total discharge is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total in bottom material is the amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total length (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

Total load refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

Total organism count is the number of organisms collected and enumerated in any particular sample. (See also "Organism count/volume.")

Total recoverable is the amount of a given constituent in a whole-water sample after a sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

Total sediment discharge is the mass of suspended-sediment plus bed-load transport, measured as dry weight, that passes a cross section in a given time. It is a rate and is reported as tons per day. (See also "Sediment," "Suspended sediment," "Suspended-Sediment Concentration," "Bedload," and "Bedload discharge")

Total sediment load or total load is the sediment in transport as bedload and suspended-sediment load. The term may be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It differs from total sediment discharge in that load refers to the material whereas discharge refers to the quantity of material, expressed in units of mass per unit time. (See also "Sediment," "Suspended-Sediment Load," and "Total load")

Trophic group:

Filter feeder – diet composed of suspended plant and/or animal material.

Herbivore – diet composed predominantly of plant material.

Invertivore – diet composed predominantly of invertebrates.

Omnivore – diet composed of at least 25-percent plant and 25-percent animal material.

Piscivore – diet composed predominantly of fish.

Turbidity is the reduction in the transparency of a solution due to the presence of suspended and some dissolved substances. The measurement technique records the collective optical properties of the solution that cause light to be scattered and attenuated rather than transmitted in straight lines; the higher the intensity of scattered or attenuated light, the higher the value of the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU). Depending on the method used, the turbidity units as NTU can be defined as the intensity of light of a specified wavelength scattered or attenuated by suspended particles or absorbed at a method specified angle, usually 90 degrees, from the path of the incident light. Currently approved methods for the measurement of turbidity in the USGS include those that conform to EPA Method 180.1, ASTM D1889-00, and ISO 7027. Measurements of turbidity by these different methods and different instruments are unlikely to yield equivalent values. Consequently, the method of measurement and type of instrument used to derive turbidity records should be included in the "REMARKS" column of the Annual Data Report.

Ultraviolet (UV) absorbance (absorption) at 254 or 280 nanometers is a measure of the aggregate concentration of the mixture of UV absorbing organic materials dissolved in the analyzed water, such as lignin, tannin, humic substances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units per centimeter of pathlength of UV light through a sample.

Vertical datum (See "Datum")

Volatile organic compounds (VOCs) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOCs are human-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water

supplies is a human health concern because many are toxic and are known or suspected human carcinogens (U.S. Environmental Protection Agency, 1996).

Water table is the level in the saturated zone at which the pressure is equal to the atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which is found the water table.

Water year in USGS reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2001, is called the "2001 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports. (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976.)

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

Wet mass is the mass of living matter plus contained water. (See also "Biomass" and "Dry mass")

Wet weight refers to the weight of animal tissue or other substance including its contained water. (See also "Dry weight")

WSP is used as an acronym for "Water-Supply Paper" in reference to previously published reports.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers. (See also "Plankton")

TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY

The U.S.G.S. publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, section A of book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S.G.S., Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be made in the form of a check or money order payable to the "U.S. Geological Survey." Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations."

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

1-D1. *Water temperature—influential factors, field measurement, and data presentation*, by H.H. Stevens, Jr., J.F. Ficke, and G.F. Smoot: USGS–TWRI book 1, chap. D1. 1975. 65 p.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W. Wood: USGS–TWRI book 1, chap. D2. 1976. 24 p.

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

2-D1. *Application of surface geophysics to ground-water investigations*, by A.A.R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS–TWRI book 2, chap. D1. 1974. 116 p.

2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F.P. Haeni: USGS–TWRI book 2, chap. D2. 1988. 86 p.

Section E. Subsurface Geophysical Methods

2-E1. *Application of borehole geophysics to water-resources investigations*, by W.S. Keys and L.M. MacCary: USGS–TWRI book 2, chap. E1. 1971. 126 p.

2-E2. *Borehole geophysics applied to ground-water investigations*, by W.S. Keys: USGS–TWRI book 2, chap. E2. 1990. 150 p.

Section F. Drilling and Sampling Methods

2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W.E. Teasdale: USGS–TWRI book 2, chap. F1. 1989. 97 p.

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

3-A1. *General field and office procedures for indirect discharge measurements*, by M.A. Benson and Tate Dalrymple: USGS–TWRI book 3, chap. A1. 1967. 30 p.

3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M.A. Benson: USGS–TWRI book 3, chap. A2. 1967. 12 p.

3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G.L. Bodhaine: USGS–TWRI book 3, chap. A3. 1968. 60 p.

3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H.F. Matthai: USGS-TWRI book 3, chap. A4. 1967. 44 p.

3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS–TWRI book 3. chap. A5. 1967. 29 p.

3-A6. *General procedure for gaging streams,* by R.W. Carter and Jacob Davidian: USGS–TWRI book 3, chap. A6. 1968. 13 p.

3-A7. *Stage measurement at gaging stations,* by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A7. 1968. 28 p.

3-A8. *Discharge measurements at gaging stations,* by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A8. 1969. 65 p.

3-A9. *Measurement of time of travel in streams by dye tracing,* by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS–TWRI book 3, chap. A9. 1989. 27 p.

3-Al0. *Discharge ratings at gaging stations,* by E.J. Kennedy: USGS–TWRI book 3, chap. A10. 1984. 59 p.

3-A11. *Measurement of discharge by the moving-boat method,* by G.F. Smoot and C.E. Novak: USGS–TWRI book 3, chap. A11. 1969. 22 p.

3-A12. *Fluorometric procedures for dye tracing,* Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS–TWRI book 3, chap. A12. 1986. 34 p.

3-A13. *Computation of continuous records of streamflow,* by E.J. Kennedy: USGS–TWRI book 3, chap. A13. 1983. 53 p.

3-A14. *Use of flumes in measuring discharge,* by F.A. Kilpatrick and V.R. Schneider: USGS–TWRI book 3, chap. A14. 1983. 46 p.

3-A15. *Computation of water-surface profiles in open channels,* by Jacob Davidian: USGS–TWRI book 3, chap. A15. 1984. 48 p.

3-A16. *Measurement of discharge using tracers,* by F.A. Kilpatrick and E.D. Cobb: USGS–TWRI book 3, chap. A16. 1985. 52 p.

3-A17. *Acoustic velocity meter systems,* by Antonius Laenen: USGS–TWRI book 3, chap. A17. 1985. 38 p.

3-A18. *Determination of stream reaeration coefficients by use of tracers,* by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS–TWRI book 3, chap. A18. 1989. 52 p.

3-A19. *Levels at streamflow gaging stations,* by E.J. Kennedy: USGS–TWRI book 3, chap. A19. 1990. 31 p.

3-A20. *Simulation of soluble waste transport and buildup in surface waters using tracers,* by F.A. Kilpatrick: USGS–TWRI book 3, chap. A20. 1993. 38 p.

3-A21 *Stream-gaging cableways,* by C. Russell Wagner: USGS–TWRI book 3, chap. A21. 1995. 56 p.

Section B. Ground-Water Techniques

3-B1. *Aquifer-test design, observation, and data analysis,* by R.W. Stallman: USGS–TWRI book 3, chap. B1. 1971. 26 p.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction,* by G.D. Bennett: USGS–TWRI book 3, chap. B2. 1976. 172 p.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers,* by J.E. Reed: USGS–TWRI book 3, chap. B3. 1980. 106 p.

3-B4. *Regression modeling of ground-water flow,* by R.L. Cooley and R.L. Naff: USGS–TWRI book 3, chap. B4. 1990. 232 p.

3-B4. *Supplement 1. Regression modeling of ground-water flow --Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems,* by R.L. Cooley: USGS–TWRI book 3, chap. B4. 1993. 8 p.

3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems—An introduction,* by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS–TWRI book 3, chap. B5. 1987. 15 p.

3-B6. *The principle of superposition and its application in ground-water hydraulics,* by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS–TWRI book 3, chap. B6. 1987. 28 p.

3-B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow,* by E.J. Wexler: USGS–TWRI book 3, chap. B7. 1992. 190 p.

3-B8. *System and boundary conceptualization in ground-water flow simulation,* by T.E. Reilly: USGS–TWRI book 3, chap. B8. 2001. 29 p.

Section C. Sedimentation and Erosion Techniques

3-C1. *Fluvial sediment concepts,* by H.P. Guy: USGS–TWRI book 3, chap. C1. 1970. 55 p.

3-C2. *Field methods for measurement of fluvial sediment,* by T.K. Edwards and G.D. Glysson: USGS–TWRI book 3, chap. C2. 1999. 89 p.

3-C3. *Computation of fluvial-sediment discharge,* by George Porterfield: USGS–TWRI book 3, chap. C3. 1972. 66 p.

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

4-A1. *Some statistical tools in hydrology,* by H.C. Riggs: USGS–TWRI book 4, chap. A1. 1968. 39 p.

4-A2. *Frequency curves,* by H.C. Riggs: USGS–TWRI book 4, chap. A2. 1968. 15 p.

Section B. Surface Water

4-B1. *Low-flow investigations,* by H.C. Riggs: USGS–TWRI book 4, chap. B1. 1972. 18 p.

4-B2. *Storage analyses for water supply,* by H.C. Riggs and C.H. Hardison: USGS–TWRI book 4, chap. B2. 1973. 20 p.

4-B3. *Regional analyses of streamflow characteristics,* by H.C. Riggs: USGS–TWRI book 4, chap. B3. 1973. 15 p.

Section D. Interrelated Phases of the Hydrologic Cycle

4-D1. *Computation of rate and volume of stream depletion by wells,* by C.T. Jenkins: USGS–TWRI book 4, chap. D1. 1970. 17 p.

Book 5. Laboratory Analysis

Section A. Water Analysis

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments,* by M.J. Fishman and L.C. Friedman, editors: USGS–TWRI book 5, chap. A1. 1989. 545 p.

5-A2. *Determination of minor elements in water by emission spectroscopy,* by P.R. Barnett and E.C. Mallory, Jr.: USGS–TWRI book 5, chap. A2. 1971. 31 p.

5-A3. *Methods for the determination of organic substances in water and fluvial sediments,* edited by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS–TWRI book 5, chap. A3. 1987. 80 p.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples,* by L.J. Britton and P.E. Greeson, editors: USGS–TWRI book 5, chap. A4. 1989. 363 p.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments,* by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS–TWRI book 5, chap. A5. 1977. 95 p.

5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments,* by L.C. Friedman and D.E. Erdmann: USGS–TWRI book 5, chap. A6. 1982. 181 p.

Section C. Sediment Analysis

5-C1. *Laboratory theory and methods for sediment analysis,* by H.P. Guy: USGS–TWRI book 5, chap. C1. 1969. 58 p.

Book 6. Modeling Techniques

Section A. Ground Water

6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M.G. McDonald and A.W. Harbaugh: USGS–TWRI book 6, chap. A1. 1988. 586 p.

6-A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model*, by S.A. Leake and D.E. Prudic: USGS–TWRI book 6, chap. A2. 1991. 68 p.

6-A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual*, by L.J. Torak: USGS–TWRI book 6, chap. A3. 1993. 136 p.

6-A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions*, by R.L. Cooley: USGS–TWRI book 6, chap. A4. 1992. 108 p.

6-A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details*, by L.J. Torak: USGS–TWRI book 6, chap. A5, 1993. 243 p.

6-A6. *A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction*, by Eric D. Swain and Eliezer J. Wexler: USGS–TWRI book 6, chap. A5,1996. 125 p.

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS–TWRI book 7, chap. C1. 1976. 116 p.

7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L.F. Konikow and J.D. Bredehoeft: USGS–TWRI book 7, chap. C2. 1978. 90 p.

7-C3. *A model for simulation of flow in singular and interconnected channels*, by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS–TWRI book 7, chap. C3. 1981. 110 p.

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

8-A1. *Methods of measuring water levels in deep wells*, by M.S. Garber and F.C. Koopman: USGS–TWRI book 8, chap. A1. 1968. 23 p.

8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J.D. Craig: USGS–TWRI book 8, chap. A2. 1983. 57 p.

Section B. Instruments for Measurement of Discharge

8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G.F. Smoot and C.E. Novak: USGS–TWRI book 8, chap. B2. 1968. 15 p.

Book 9. Handbooks for Water-Resources Investigations

Section A. National Field Manual for the Collection of Water-Quality Data

9-A1. *National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling*, by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A1. 1998. 47 p.

9-A2. *National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A2. 1998. 94 p.

9-A3. *National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A3. 1998. 75 p.

9-A4. *National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A4. 1999. 156 p.

9-A5. *National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A5. 1999, 149 p.

9-A6. *National Field Manual for the Collection of Water-Quality Data: Field Measurements*, edited by F.D. Wilde and D.B. Radtke: USGS–TWRI book 9, chap. A6. 1998. Variously paginated.

9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators*, edited by D.N. Myers and F.D. Wilde: USGS–TWRI book 9, chap. A7. 1997 and 1999. Variously paginated.

9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom-material samples*, by D.B. Radtke: USGS–TWRI book 9, chap. A8. 1998. 48 p.

9-A9. *National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities*, by S.L. Lane and R.G. Fay: USGS–TWRI book 9, chap. A9. 1998. 60 p.

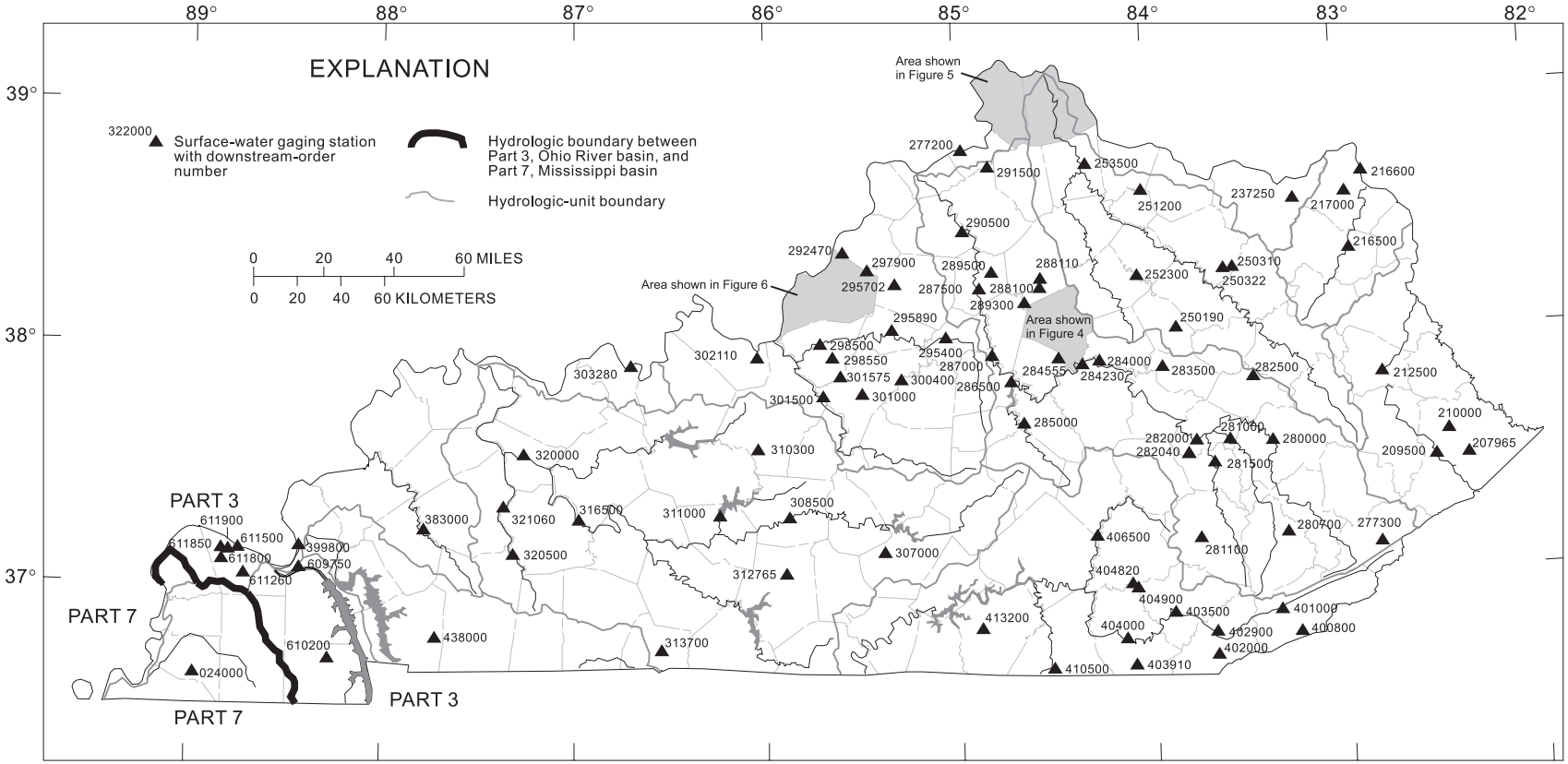


Figure 3. Location of gaging stations in Kentucky.

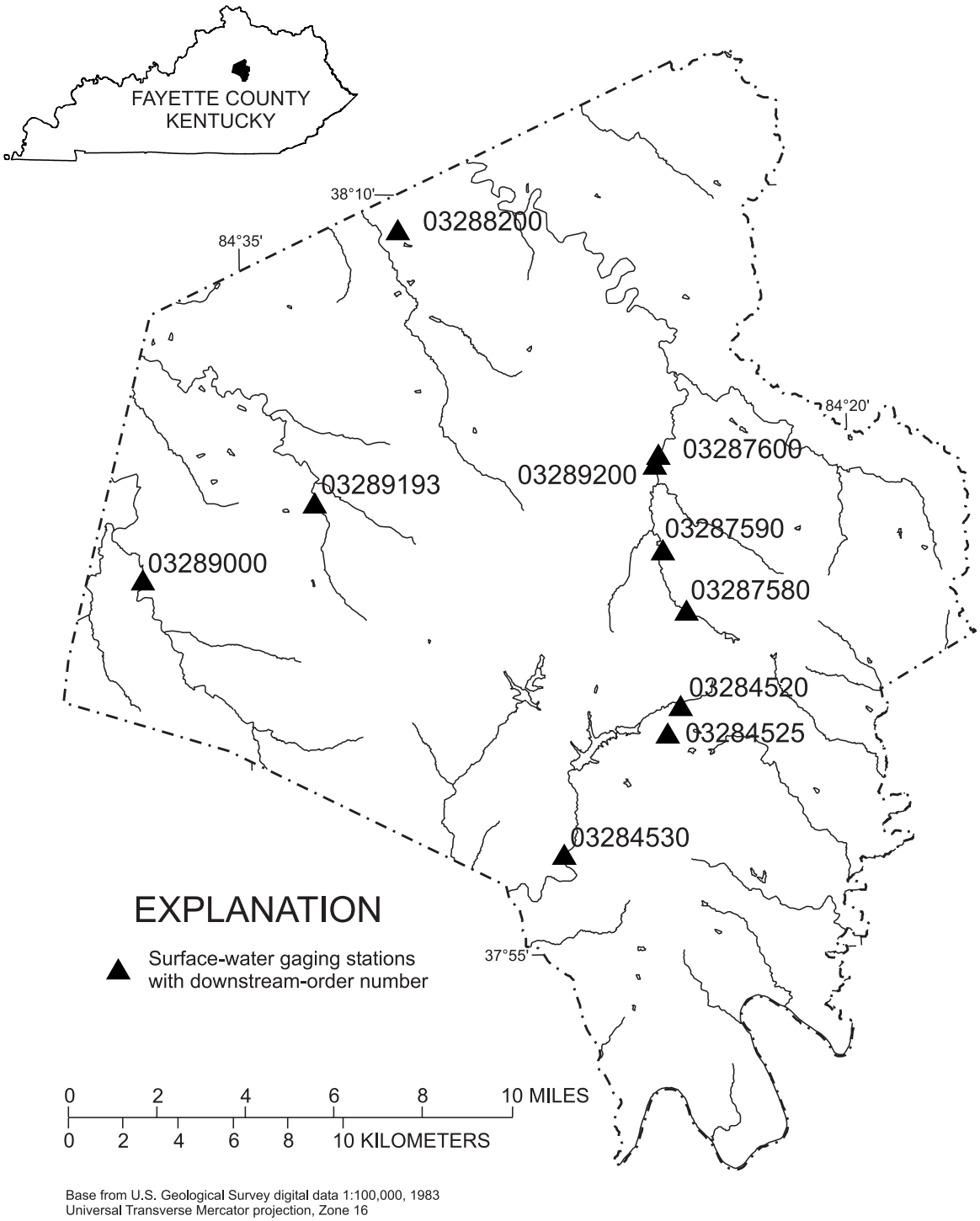


Figure 4. Location of surface-water gaging stations in Fayette County, Kentucky.

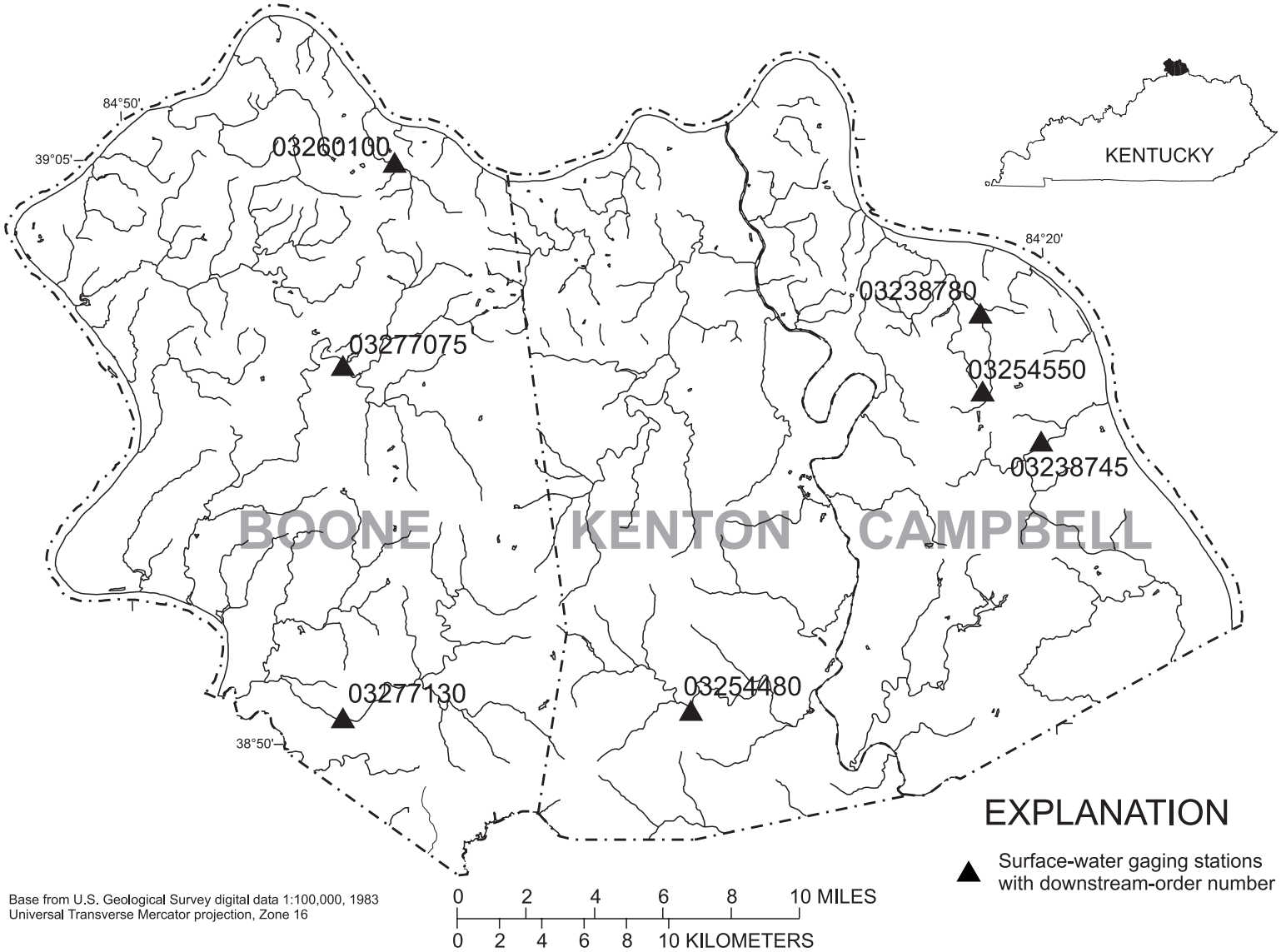


Figure 5. Location of surface-water gagaing stations in Boone, Kenton, and Campbell Counties, Kentucky.

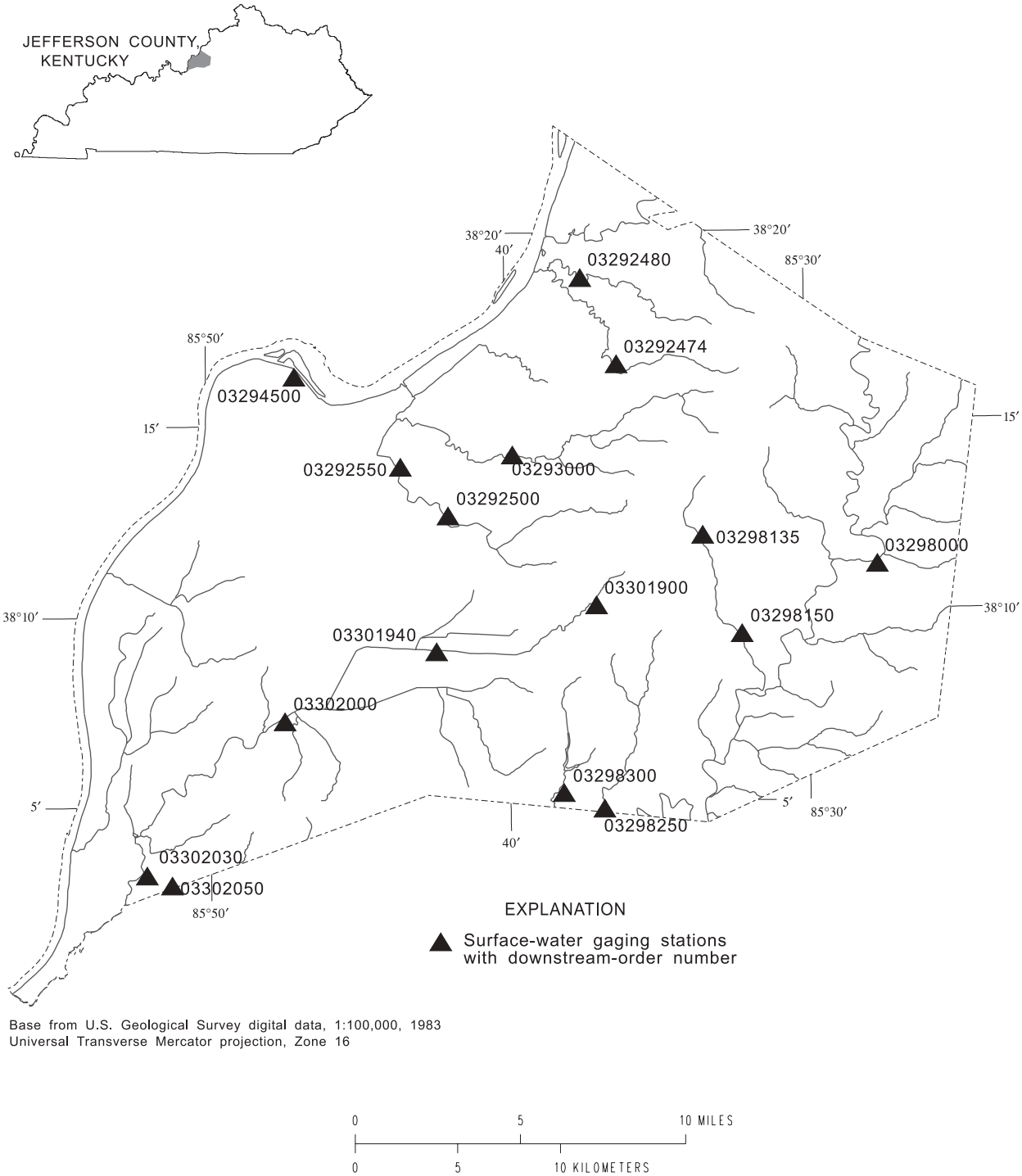


Figure 6. Location of gaging stations in Jefferson County, Kentucky.

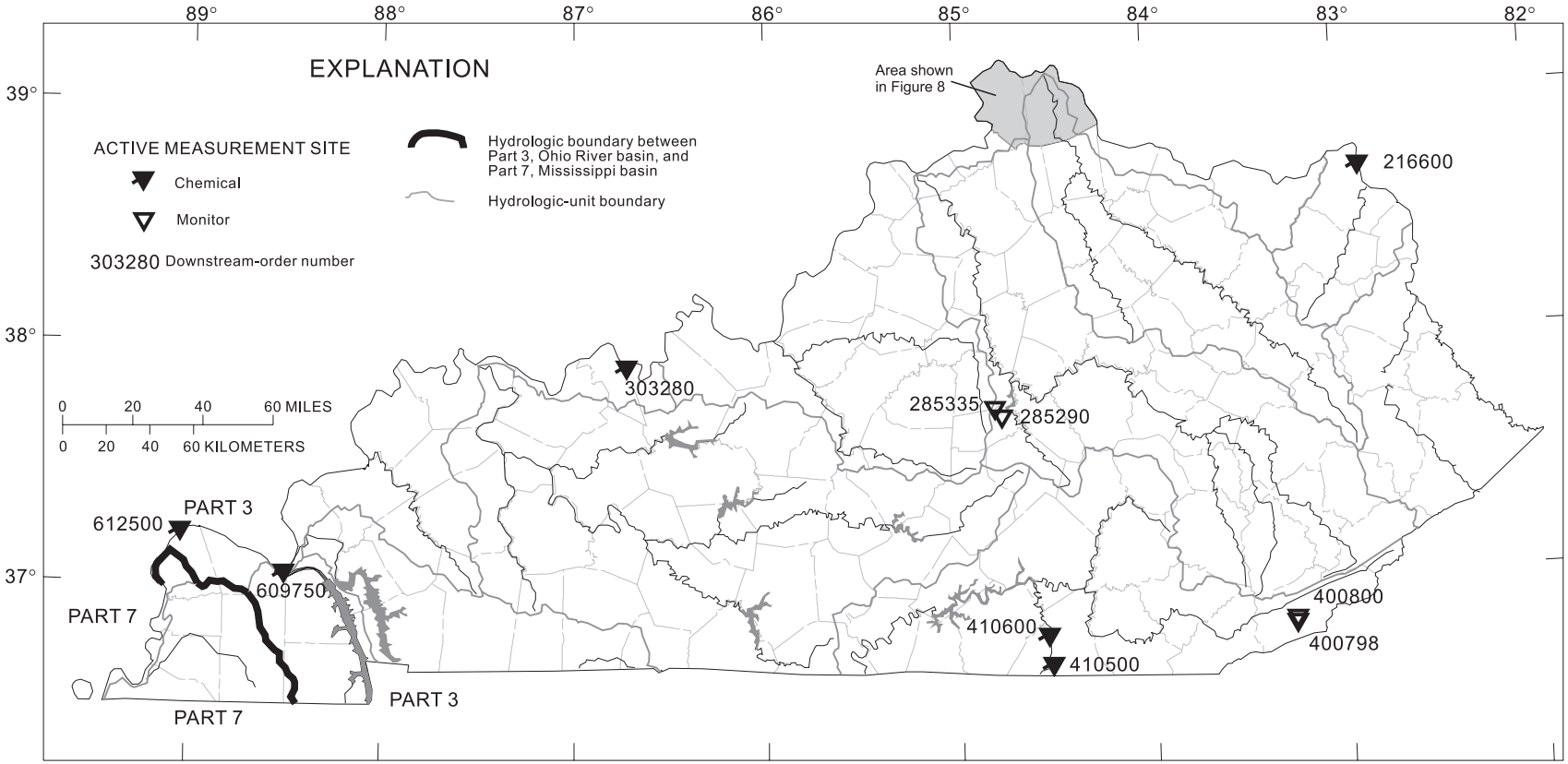


Figure 7. Location of surface-water-quality stations in Kentucky.

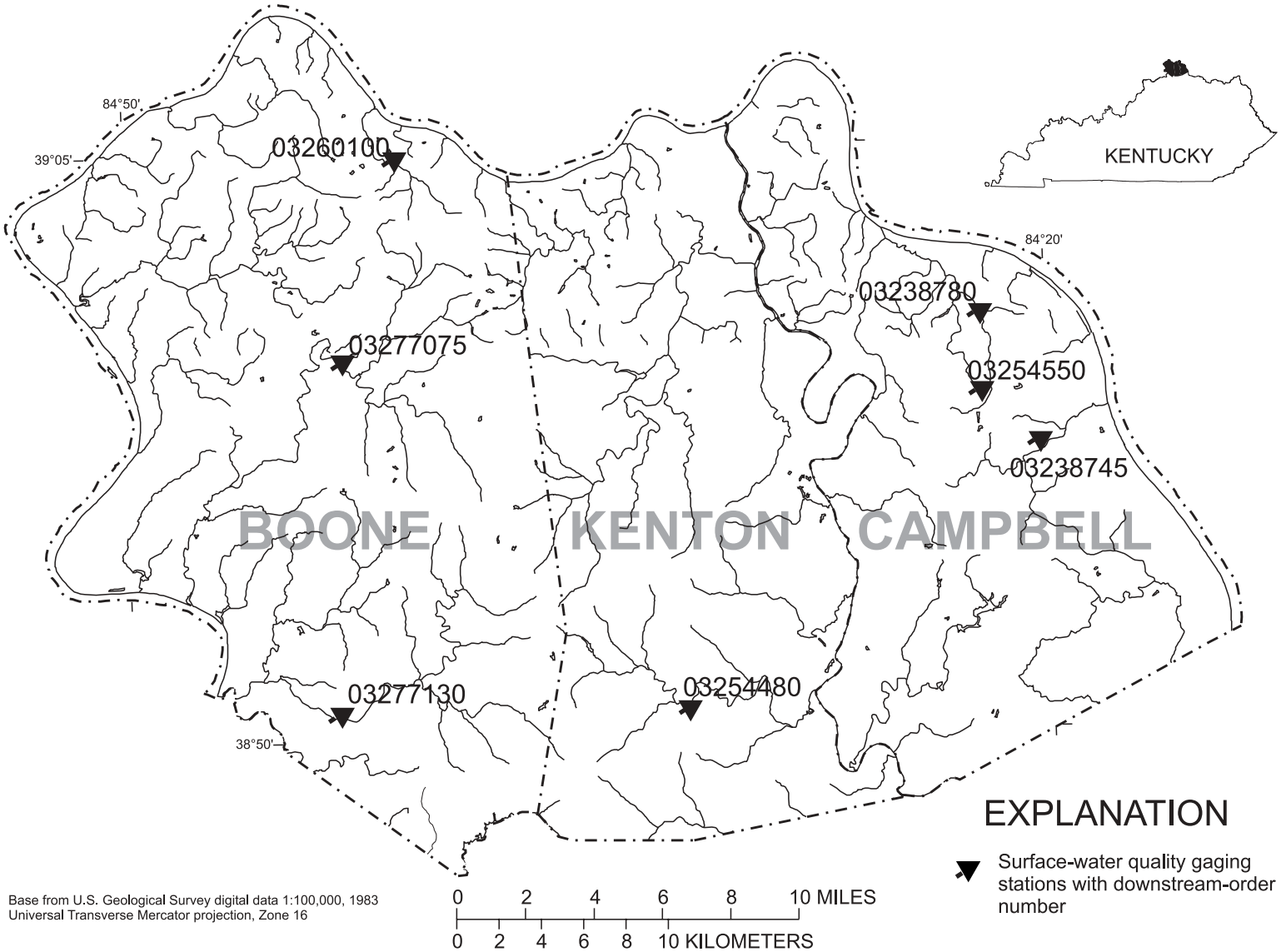


Figure 8. Location of water-quality stations in Boone, Kenton, and Campbell Counties, Kentucky.

03207965 GRAPEVINE CREEK NEAR PHYLLIS, KY

LOCATION.--Lat 37°25'57", long 82°21'14", Pike County, Hydrologic Unit 05070202, on right bank at the Grapevine Recreation area, 1.3 mi downstream from Dicks Fork, 1.3 mi southwest of Phyllis, and at mile 1.1.

DRAINAGE AREA.--6.20 mi^2.

PERIOD OF RECORD.--October 1973 to September 1982, April 1989 to September 1992, October 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 780 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Aug 13	0130	*1,530	*3.29	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	e1.0	1.2	e1.4	2.7	7.1	12	5.6	3.4	2.7	3.7	e5.2
2	1.2	e1.2	1.1	e1.4	2.6	6.8	13	5.6	3.6	3.4	2.6	e2.3
3	1.2	e1.6	1.4	e1.3	2.7	5.2	16	5.7	3.5	2.5	20	e2.6
4	1.2	e1.4	1.2	e1.3	2.3	8.1	15	6.3	4.5	6.0	118	e3.2
5	1.1	e1.5	1.1	e1.2	2.4	15	14	4.7	3.7	5.9	16	e1.9
6	1.2	e1.5	1.1	e1.2	2.3	14	13	5.2	3.3	4.1	9.2	e1.4
7	1.2	e1.6	1.1	e1.2	2.2	11	11	5.0	6.8	3.0	6.1	e.90
8	1.1	2.3	1.1	e1.2	2.1	9.5	10	5.7	7.4	4.1	4.3	e1.1
9	1.1	5.7	1.1	e1.1	2.2	7.9	9.2	5.3	5.0	4.6	6.2	e1.0
10	1.1	4.1	1.4	e1.1	3.3	6.6	9.9	5.5	3.4	3.8	6.2	e.92
11	.96	1.6	1.1	e1.1	2.3	5.7	9.4	5.1	2.7	3.3	5.8	e.87
12	.96	1.1	.95	e1.0	2.3	5.5	8.2	5.8	2.3	2.1	19	e.82
13	.97	.89	1.4	e1.0	2.4	7.1	12	7.2	2.1	2.1	e160	e.78
14	.98	.81	8.8	e1.0	10	5.4	12	8.3	1.9	2.0	e13	e.76
15	.97	1.1	2.8	e1.0	75	7.7	11	10	1.9	1.8	e6.2	e1.0
16	.86	1.2	3.6	e.98	65	9.0	10	17	1.9	1.6	e4.5	e.84
17	.87	1.4	17	e.97	83	8.5	10	19	1.8	1.8	e3.5	e.74
18	1.5	1.1	8.4	e.96	24	7.0	9.0	13	1.5	2.1	e2.8	e.66
19	1.2	1.0	5.3	58	16	5.8	8.0	13	1.3	1.9	e2.2	e.60
20	1.5	1.2	3.1	33	11	5.4	7.5	15	4.6	2.1	e3.1	e.76
21	1.9	1.4	2.5	14	8.4	8.5	7.7	16	2.5	2.5	e2.2	e1.1
22	1.8	1.6	e2.2	9.0	9.4	13	7.8	42	4.0	2.6	e1.8	e.88
23	1.7	1.2	e2.1	6.7	8.8	13	7.8	27	6.0	1.7	e2.1	e.78
24	2.1	1.2	e1.9	5.5	9.0	11	8.1	20	2.7	1.7	e2.9	e1.4
25	e1.8	1.6	e1.8	4.5	11	9.2	7.4	17	4.3	2.3	e2.3	e2.9
26	e1.9	1.6	e1.7	3.8	11	7.9	7.1	15	7.1	15	e1.8	e1.4
27	e1.8	1.5	e1.6	3.6	10	7.1	7.2	11	3.9	7.8	e1.4	e.92
28	e1.5	1.6	e1.5	3.0	8.6	6.2	6.9	11	3.0	5.9	e1.2	e1.3
29	e1.2	1.5	e1.5	2.9	---	7.4	6.3	6.1	4.9	14	e1.7	e1.1
30	e1.2	1.3	e1.5	3.5	---	10	5.8	3.8	4.5	19	e2.3	e1.6
31	e1.1	---	e1.4	3.1	---	10	---	3.8	---	6.9	e3.2	---
TOTAL	40.37	47.80	83.95	171.01	392.0	261.6	292.3	340.7	109.5	140.3	435.3	41.73
MEAN	1.30	1.59	2.71	5.52	14.0	8.44	9.74	11.0	3.65	4.53	14.0	1.39
MAX	2.1	5.7	17	58	83	15	16	42	7.4	19	160	5.2
MIN	.86	.81	.95	.96	2.1	5.2	5.8	3.8	1.3	1.6	1.2	.60
CFSM	.21	.26	.44	.89	2.26	1.36	1.57	1.77	.59	.73	2.26	.22
IN.	.24	.29	.50	1.03	2.35	1.57	1.75	2.04	.66	.84	2.61	.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2001, BY WATER YEAR (WY)

MEAN	3.75	6.13	7.65	13.7	13.0	17.7	12.9	11.0	7.53	3.82	3.34	2.11
MAX	28.0	31.0	18.8	42.6	34.0	53.6	30.7	47.7	23.7	23.2	14.0	5.75
(WY)	1990	1974	1979	1974	1990	1975	1998	1989	1998	2000	2001	1989
MIN	.32	.27	.98	1.44	4.08	7.12	4.62	.71	.64	.32	.31	.38
(WY)	1992	1982	1982	1981	1992	1977	1982	1976	1980	1991	1981	1981

03207965 GRAPEVINE CREEK NEAR PHYLLIS, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1974 - 2001	
ANNUAL TOTAL	2651.52		2356.56			
ANNUAL MEAN	7.24		6.46		8.30	
HIGHEST ANNUAL MEAN					17.2	1974
LOWEST ANNUAL MEAN					5.30	1992
HIGHEST DAILY MEAN	185	Jul 13	160	Aug 13	832	Oct 1 1982
LOWEST DAILY MEAN	.81	Nov 14	.60	Sep 19	.01	Aug 19 1982
ANNUAL SEVEN-DAY MINIMUM	.94	Oct 11	.77	Sep 14	.04	Sep 22 1981
MAXIMUM PEAK FLOW			1530	Aug 13	1650	Jun 1 1974
MAXIMUM PEAK STAGE			3.29	Aug 13	9.10	Apr 7 1977
INSTANTANEOUS LOW FLOW					.01	Aug 19 1982
ANNUAL RUNOFF (CFSM)	1.17		1.04		1.34	
ANNUAL RUNOFF (INCHES)	15.91		14.14		18.20	
10 PERCENT EXCEEDS	14		13		17	
50 PERCENT EXCEEDS	3.3		2.9		3.2	
90 PERCENT EXCEEDS	1.2		1.1		.50	

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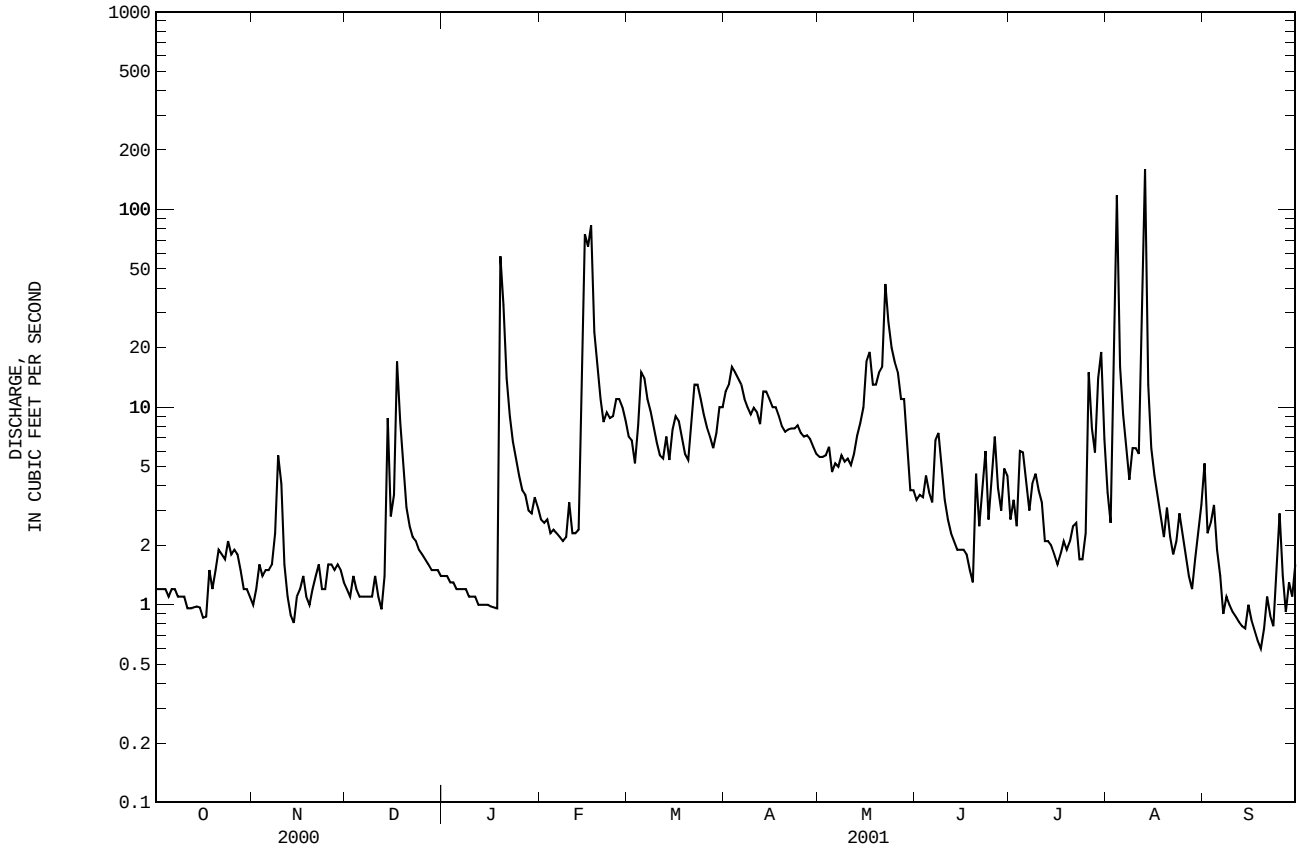


03209500 LEVISA FORK AT PIKEVILLE, KY

LOCATION.--Lat 37°27'51", long 82°31'35", Pike County, Hydrologic Unit 05070203, on right bank 20 ft downstream from bridge on State Highway 1426, 0.75 mi downstream from Lanks Branch, 1.0 mi south of Pikeville, 1.5 mi upstream from Harolds Branch, and at mile 117.3.

DRAINAGE AREA.--1,232 mi^2.

PERIOD OF RECORD.--October 1937 to current year. Gage-height records collected in this vicinity since 1907 are contained in reports of National Weather Service.

REVISED RECORDS.--WRD KY 78-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 631.98 ft above NGVD of 1929. Prior to Sept. 23, 1944, nonrecording gage at site 2.3 mi downstream at datum 2.65 ft higher. Sept. 23, 1944 to Sept. 30, 1952, water-stage recorder 2.3 mi downstream datum 1.65 ft higher. Oct. 1, 1952 to Sept. 30, 1979, at site 2.1 mi downstream at same datum.

REMARKS.--Records good except for those estimated, which are poor. Flow regulated since October 1968 by Fishtrap Lake (station 03207995), since August 1966 by North Fork Pound River Lake (station 03208680) and since March 1965 by John W. Flannagan Lake (station 03208990).

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	217	364	252	e260	339	1400	1140	377	788	734	4040	893
2	212	444	249	e255	330	1210	1120	554	568	547	1310	950
3	206	288	271	e250	401	1120	1110	898	640	636	1220	697
4	204	260	267	e250	335	940	1250	617	754	708	5330	581
5	245	259	222	e245	334	2500	1180	483	948	3490	3080	539
6	556	258	228	e245	304	4490	1050	484	1480	1940	1580	487
7	636	260	232	e240	280	3400	916	483	4400	806	1030	349
8	831	263	230	e240	275	1890	801	405	8230	628	762	312
9	817	304	219	e238	270	1590	714	405	4630	1400	792	298
10	559	477	216	e237	275	1410	809	400	2050	1760	728	301
11	493	396	215	e236	286	1340	823	384	1500	1120	863	300
12	489	351	212	e235	296	1450	770	378	1180	559	e1000	266
13	484	328	214	e234	409	1400	794	331	814	516	e2400	260
14	491	318	555	e233	393	1290	840	298	595	439	e1800	255
15	689	310	416	e232	1970	1370	804	284	635	414	1280	250
16	774	308	331	e231	4540	1790	793	313	921	362	1010	244
17	592	306	794	e231	11900	1910	755	884	788	311	779	240
18	487	303	738	e230	8340	1690	737	1310	387	280	660	226
19	522	300	401	e4000	4940	1580	692	1240	339	293	583	212
20	496	297	e350	e2400	3400	1200	593	1130	325	316	624	231
21	366	290	e325	e1800	1540	1130	556	1140	388	337	481	255
22	488	290	e310	e1300	1110	1850	538	4730	399	336	415	255
23	420	290	e300	e1000	1510	2290	522	8770	1260	382	404	232
24	202	294	e290	e760	1450	1950	794	5680	1360	392	411	266
25	230	304	e285	e650	1600	1620	780	3680	601	361	419	434
26	230	304	e280	e560	2200	1410	576	1650	550	950	427	444
27	223	301	e275	515	2540	1230	626	1230	488	9820	430	303
28	274	298	e270	441	1800	980	577	1070	572	6570	422	257
29	423	297	e265	393	---	832	541	903	541	7240	464	245
30	429	297	e265	555	---	994	497	926	692	10700	440	240
31	210	---	e260	376	---	1150	---	833	---	8530	453	---
TOTAL	13495	9359	9737	19072	53367	50406	23698	42270	38823	62877	35637	10822
MEAN	435	312	314	615	1906	1626	790	1364	1294	2028	1150	361
MAX	831	477	794	4000	11900	4490	1250	8770	8230	10700	5330	950
MIN	202	258	212	230	270	832	497	284	325	280	404	212

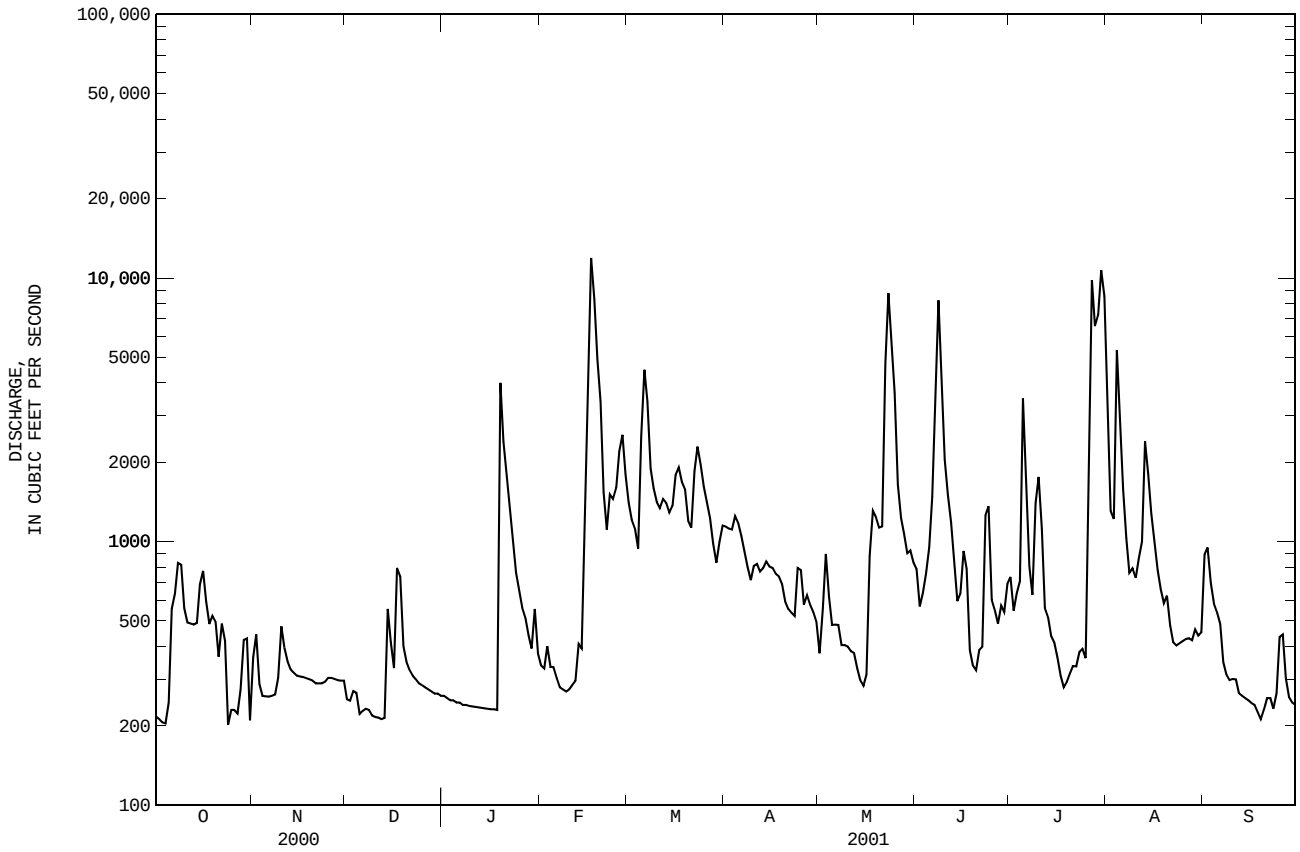
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2001, BY WATER YEAR (WY)

MEAN	788	1092	1515	2258	2772	2950	2253	1969	1022	634	505	453
MAX	3939	3991	5385	6861	6371	8081	7646	6067	3492	2028	1150	1606
(WY)	1990	1978	1973	1974	1994	1975	1977	1984	1979	2001	2001	1989
MIN	158	312	300	278	814	529	388	349	210	200	203	168
(WY)	1970	2001	1981	1981	1992	1988	1986	1976	1988	1988	1969	1969

03209500 LEVISA FORK AT PIKEVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1969 - 2001	
ANNUAL TOTAL	336865		369563			
ANNUAL MEAN	920		1013		1512	
HIGHEST ANNUAL MEAN					2459	1979
LOWEST ANNUAL MEAN					522	1988
HIGHEST DAILY MEAN	7120	Apr 4	11900	Feb 17	69300	Apr 5 1977
LOWEST DAILY MEAN	186	Sep 23	202	Oct 24	66	Dec 3 1970
ANNUAL SEVEN-DAY MINIMUM	220	Dec 7	220	Dec 7	103	Oct 10 1968
MAXIMUM PEAK FLOW			15300	Jul 30	85500	Jan 30 1957
MAXIMUM PEAK STAGE			24.63	Jul 30	52.72	Jan 30 1957
INSTANTANEOUS LOW FLOW					66	Dec 3 1970
10 PERCENT EXCEEDS	2170		1870		3500	
50 PERCENT EXCEEDS	506		497		747	
90 PERCENT EXCEEDS	246		242		232	

e Estimated



03210000 JOHNS CREEK NEAR META, KY

LOCATION.--Lat 37°34'01", long 82°27'29", Pike County, Hydrologic Unit 05070203, on right bank 100 ft upstream from bridge on U.S. Highway 119, 1,100 ft downstream from Ford Branch, 0.7 mi upstream from Raccoon Creek, 1.2 mi southwest of Meta, and at mile 42.7.

DRAINAGE AREA.--56.3 mi^2.

PERIOD OF RECORD.--April 1941 to September 1993, October 1994 to current year.

REVISED RECORDS.--WSP 1705: Drainage area. WRD KY-76-1: 1975. WDR KY-87-1: 1986.

GAGE:--Water-stage recorder and crest-stage gage. Datum of gage is 715.66 ft above NGVD of 1929. See WDR KY-90-1 for history of changes prior to Dec. 21, 1965.

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

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1939 reached a stage of 15.6 ft, from floodmark, present datum, at site 600 ft upstream, discharge, 4,500 ft^3/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Aug 4	0330	*2,210	*14.24	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	9.6	5.0	e11	46	72	107	24	18	27	38	35
2	11	11	5.1	e10	43	72	124	23	19	35	28	20
3	13	11	5.5	e9.8	35	65	145	22	17	27	166	21
4	10	14	6.4	e9.2	23	70	136	21	17	53	894	23
5	11	12	5.4	e8.8	22	110	120	20	17	73	152	15
6	13	13	5.1	e8.2	22	114	103	20	15	50	66	12
7	14	13	4.2	e7.8	20	101	85	20	164	37	40	7.7
8	8.7	14	4.0	e7.4	18	88	73	19	223	32	27	8.5
9	9.1	e15	3.5	e7.2	16	78	67	20	91	69	23	8.8
10	8.3	e26	4.1	e6.8	22	70	66	18	50	40	31	8.4
11	8.3	12	5.3	e6.5	18	65	69	18	36	29	30	8.1
12	8.3	11	9.5	e6.2	17	62	56	21	31	23	31	7.4
13	7.1	11	4.9	e6.0	20	74	73	22	25	20	376	7.2
14	7.3	12	88	e5.7	29	69	70	19	23	17	119	6.4
15	8.3	8.5	45	e5.5	393	96	66	18	21	16	54	7.3
16	10	5.8	31	e5.2	396	128	60	18	17	16	34	7.3
17	7.9	5.3	141	e5.0	679	113	57	40	16	14	27	6.6
18	11	4.7	69	e7.2	251	91	56	22	15	15	21	5.5
19	13	4.0	43	467	155	78	47	20	13	15	21	5.0
20	13	4.4	29	394	110	67	41	35	13	26	25	6.1
21	14	4.2	e26	190	86	83	38	29	28	16	17	7.7
22	17	4.9	e23	119	83	130	38	154	28	16	14	7.7
23	17	5.9	e21	88	80	134	37	107	131	15	18	6.4
24	16	7.2	e20	76	81	116	37	52	49	13	21	10
25	15	6.7	e18	59	95	103	34	41	38	11	14	18
26	17	7.2	e17	41	100	81	30	33	61	57	13	9.4
27	16	6.0	e16	38	89	65	28	28	37	76	11	6.6
28	12	5.6	e15	44	82	59	27	31	29	99	9.7	7.8
29	10	5.5	e14	48	---	57	26	25	24	167	9.8	6.7
30	10	5.4	e13	54	---	85	25	15	36	155	12	8.3
31	8.9	---	e12	52	---	87	---	15	---	62	13	---
TOTAL	355.2	275.9	709.0	1803.5	3031	2683	1941	970	1302	1321	2355.5	314.9
MEAN	11.5	9.20	22.9	58.2	108	86.5	64.7	31.3	43.4	42.6	76.0	10.5
MAX	17	26	141	467	679	134	145	154	223	167	894	35
MIN	7.1	4.0	3.5	5.0	16	57	25	15	13	11	9.7	5.0
CFSM	.20	.16	.41	1.03	1.92	1.54	1.15	.56	.77	.76	1.35	.19
IN.	.23	.18	.47	1.19	2.00	1.77	1.28	.64	.86	.87	1.56	.21

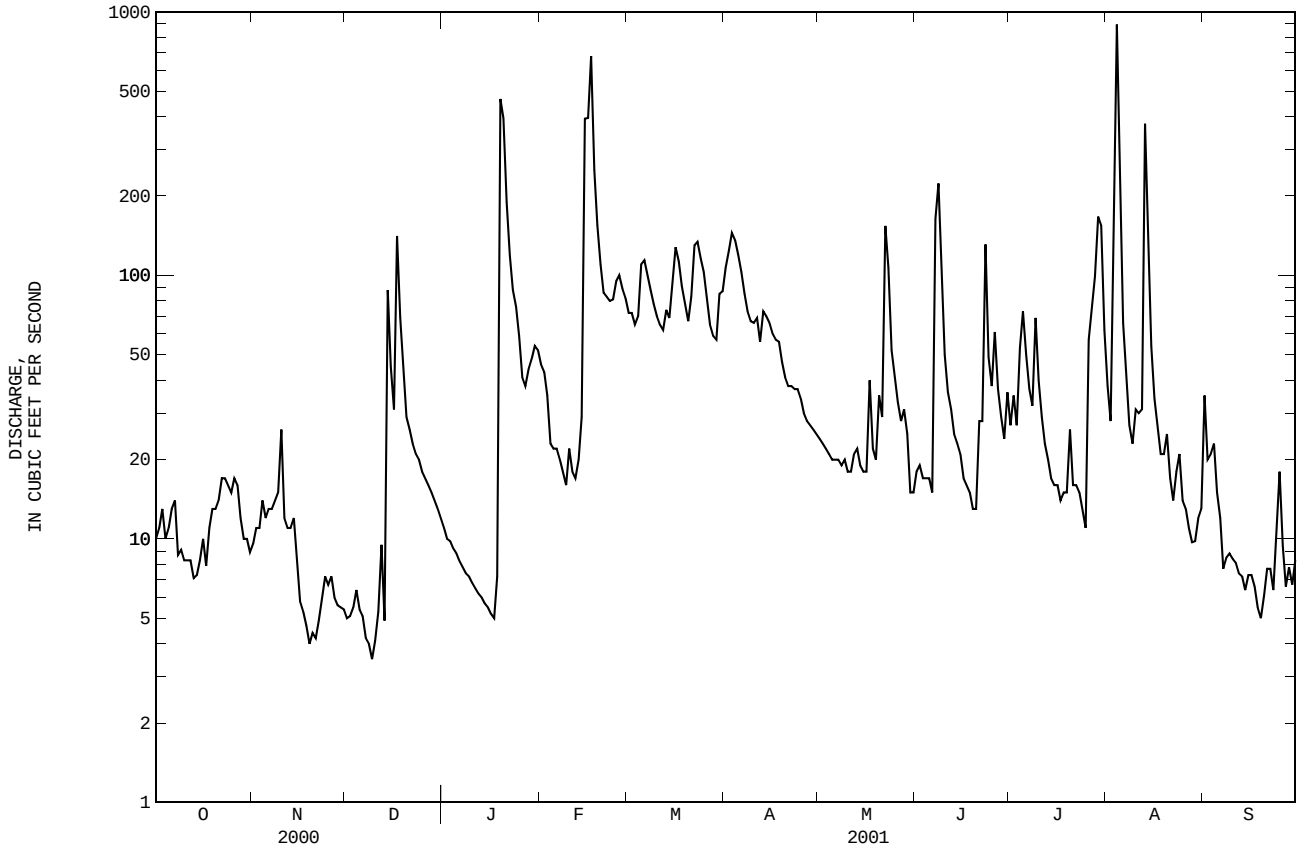
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2001, BY WATER YEAR (WY)

MEAN	17.5	37.0	72.9	106	136	162	116	72.2	39.2	27.7	18.4	15.6
MAX	175	213	319	413	338	489	356	271	193	167	155	153
(WY)	1990	1974	1973	1974	1972	1955	1948	1984	1979	2000	1942	1966
MIN	.000	.23	.95	6.57	17.5	36.0	15.8	7.33	1.99	.42	.35	.000
(WY)	1954	1954	1966	1966	1954	1988	1963	1941	1969	1944	1943	1943

03210000 JOHNS CREEK NEAR META, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1941 - 2001	
ANNUAL TOTAL	22004.0		17062.0			
ANNUAL MEAN	60.1		46.7		68.4	
HIGHEST ANNUAL MEAN					135	1974
LOWEST ANNUAL MEAN					24.5	1954
HIGHEST DAILY MEAN	869	Jul 11	894	Aug 4	3340	May 7 1984
LOWEST DAILY MEAN	3.5	Dec 9	3.5	Dec 9	.00	Oct 1 1941
ANNUAL SEVEN-DAY MINIMUM	4.5	Dec 5	4.5	Dec 5	.00	Oct 1 1941
MAXIMUM PEAK FLOW			2210	Aug 4	7380	Mar 12 1963
MAXIMUM PEAK STAGE			14.24	Aug 4	19.62	May 7 1984
INSTANTANEOUS LOW FLOW					.00	Oct 1 1941
ANNUAL RUNOFF (CFSM)	1.07		.83		1.21	
ANNUAL RUNOFF (INCHES)	14.54		11.27		16.50	
10 PERCENT EXCEEDS	138		103		155	
50 PERCENT EXCEEDS	22		21		23	
90 PERCENT EXCEEDS	7.7		6.6		2.1	

e Estimated



03212500 LEVISA FORK AT PAINTSVILLE, KY

LOCATION.--Lat 37°48'55", long 82°47'30", Johnson County, Hydrologic Unit 05070203, on left bank 700 ft downstream from bridge on State Highway 40 at Paintsville, 900 ft downstream from Paint Creek, and at mile 65.2.

DRAINAGE AREA.--2,144 mi^2.

PERIOD OF RECORD.--June 1915 to September 1916, October 1916 to November 1920 (gage heights only), and October 1928 to current year. Monthly discharge only for October to December 1928, published in WSP 1305. Published. (as "at Thelma" prior to 1928.)

REVISED RECORDS.--WSP 953: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 566.84 ft above NGVD of 1929. See WDR KY-90-1 for history of changes prior to Oct. 19, 1954.

REMARKS.--Records fair except for those estimated, which are poor. Flow regulated since September 1983 by Paintsville Lake (station 03211990), since October 1968 by Fishtrap Lake (station 03207995), since August 1966 by North Fork Pound River Lake (station 03208680), since March 1965 by John W. Flannagan Lake (station 03208990), and since May 1950 by Dewey Lake (station 03211000).

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1862 reached a stage of 46.6 ft, from levels to floodmark by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	369	309	442	e378	1030	2700	2000	755	1020	1000	9490	703
2	349	372	410	e370	892	2340	2220	607	1010	1020	4180	1240
3	344	528	376	e365	725	2130	2360	752	807	755	1660	1230
4	336	408	397	e360	773	1970	2610	1100	858	1180	7850	1030
5	332	350	390	e358	713	2200	2610	849	1010	1880	9390	851
6	350	335	355	e356	720	5000	2370	699	1250	3650	4570	734
7	664	408	331	e352	677	5570	e2200	693	4800	1850	2970	655
8	817	558	339	e350	589	3870	e1950	684	9640	1120	1810	471
9	971	577	334	e348	570	2870	e1850	586	8490	929	1320	404
10	902	681	333	e338	607	2560	e1750	559	4500	e2200	1230	380
11	689	833	325	e332	600	2310	1870	541	2310	e2500	1150	365
12	604	698	325	e329	603	2080	1590	530	1870	e1200	1520	364
13	593	615	327	e325	593	2280	1590	530	1480	862	1560	344
14	587	570	1270	e323	729	2310	1740	458	1120	690	5140	335
15	621	531	1740	e321	2920	2200	1760	409	881	607	3180	325
16	1120	467	1170	e320	7650	2860	1620	397	847	561	1640	317
17	1190	433	2880	e318	15300	3370	1440	662	978	507	1300	309
18	717	433	2400	e317	16700	3180	1400	1430	1050	489	1050	298
19	555	432	e1200	e316	10300	2770	1380	1240	653	495	921	287
20	611	426	e650	8960	6770	2470	1300	955	503	500	848	273
21	589	414	e550	6690	4100	2180	1120	1480	501	548	854	281
22	485	411	e520	4640	2550	2750	1070	2120	553	564	691	313
23	609	413	e480	2970	2350	3720	1020	6620	e1000	544	561	303
24	551	421	e465	2190	2570	3690	943	8540	e1800	607	567	319
25	305	444	e450	1520	2600	3130	1240	5630	e2000	642	585	423
26	312	461	e435	1260	2940	2800	1170	3530	e950	768	589	572
27	320	466	e415	1190	3600	2380	929	2050	e900	4720	581	581
28	319	478	e408	1020	3460	2010	945	1700	e800	10600	582	432
29	331	463	e397	937	---	1720	878	1460	761	8390	543	326
30	531	450	e388	1060	---	1650	796	1270	796	11900	639	306
31	534	---	e382	1270	---	1770	---	1130	---	11500	587	---
TOTAL	17607	14385	20884	40183	93631	84840	47721	49966	55138	74778	69558	14771
MEAN	568	480	674	1296	3344	2737	1591	1612	1838	2412	2244	492
MAX	1190	833	2880	8960	16700	5570	2610	8540	9640	11900	9490	1240
MIN	305	309	325	316	570	1650	796	397	501	489	543	273

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2001, BY WATER YEAR (WY)

MEAN	1095	1754	2649	3847	4798	5126	4020	3305	1736	986	836	686
MAX	6560	4908	8870	12030	11000	13160	10040	9664	5426	2678	2244	2054
(WY)	1990	1978	1973	1974	1994	1975	1987	1984	1998	2000	2001	1989
MIN	181	447	570	435	1467	963	594	519	278	257	291	239
(WY)	1970	1970	1981	1981	1988	1988	1986	1976	1988	1988	1969	1969

03212500 LEVISA FORK AT PAINTSVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1969 - 2001	
ANNUAL TOTAL	595110		583462			
ANNUAL MEAN	1626		1599		2559	
HIGHEST ANNUAL MEAN					4234	1975
LOWEST ANNUAL MEAN					830	1988
HIGHEST DAILY MEAN	12100	Apr 5	16700	Feb 18	42000	Apr 6 1977
LOWEST DAILY MEAN	305	Oct 25	273	Sep 20	98	Oct 1 1968
ANNUAL SEVEN-DAY MINIMUM	331	Dec 7	295	Sep 17	122	Aug 27 1969
MAXIMUM PEAK FLOW			17600	Feb 18	69700	Jan 31 1957
MAXIMUM PEAK STAGE			21.10	Feb 18	45.92	Jan 31 1957
INSTANTANEOUS LOW FLOW					98	Oct 1 1968
10 PERCENT EXCEEDS	3710		3410		6150	
50 PERCENT EXCEEDS	874		796		1220	
90 PERCENT EXCEEDS	382		336		367	

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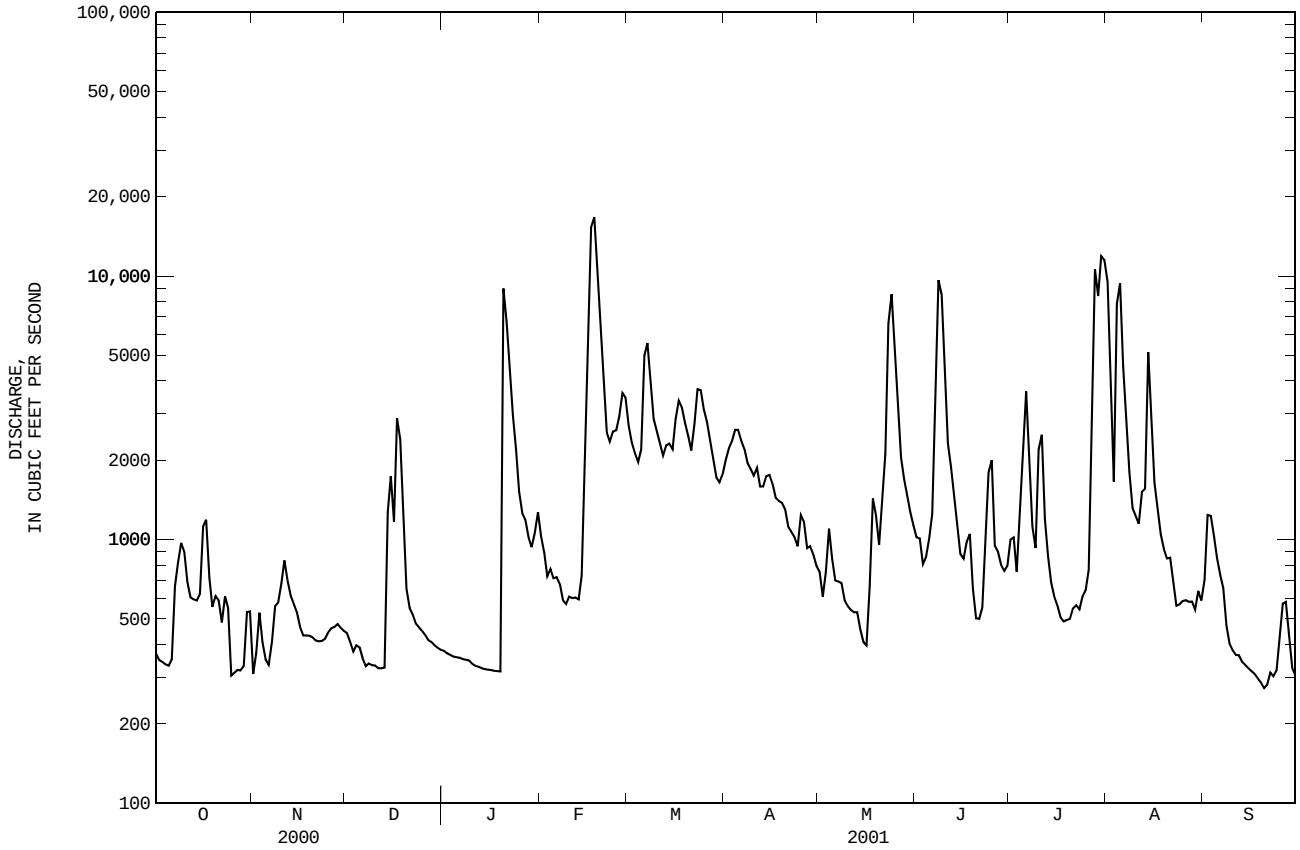

03216500 LITTLE SANDY RIVER AT GRAYSON, KY

LOCATION.--Lat 38°19'48", long 82°56'22", Carter County, Hydrologic Unit 05090104, on left bank 0.3 mi upstream from bridge on U.S. Highway 60, 0.5 mi downstream from Town Branch, 0.5 mi east of Grayson, and at mile 38.1.

DRAINAGE AREA.--400 mi^2.

PERIOD OF RECORD.--April 1938 to current year. Prior to October 1964, published as "near Grayson."

REVISED RECORDS.--WSP 1435: 1939(M), 1943(M), 1948(P). WSP 1725: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 557.95 ft above NGVD of 1929. Prior to Aug. 11, 1939, nonrecording gage and Aug. 11, 1939 to Jan. 29, 1965, water-stage recorder at site 1.6 mi downstream at same datum. Apr. 6, 1948 to Jan. 29, 1965, supplementary nonrecording gage 800 ft downstream at same datum.

REMARKS.--Records good except for those estimated, which are fair. Flow regulated since March 1968 by Grayson Lake (station 03216300).

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	96	87	e52	545	357	141	66	174	45	959	47
2	44	96	41	e50	434	367	197	123	301	44	502	43
3	42	96	31	e47	250	260	169	82	312	43	171	41
4	41	95	29	e46	226	392	170	76	324	50	240	41
5	40	93	27	e45	222	1940	160	72	248	115	134	39
6	41	94	24	e44	201	1960	152	71	507	85	76	38
7	41	94	24	e42	176	1130	164	63	1700	61	66	38
8	40	93	23	e41	118	755	160	64	977	53	61	37
9	39	e98	22	e40	140	667	145	66	420	660	56	e37
10	39	e120	23	e39	153	516	134	65	317	2400	64	e36
11	39	115	22	e39	165	282	128	59	250	1550	150	e36
12	39	104	22	e38	154	258	126	57	167	306	125	35
13	39	100	23	e38	200	476	110	52	101	105	166	35
14	38	97	47	e38	206	671	96	50	85	61	64	35
15	38	94	76	e37	263	541	87	48	77	53	57	34
16	38	93	224	e37	720	635	84	55	73	50	52	34
17	39	91	2940	e37	2530	549	78	261	71	47	49	34
18	44	89	1220	e36	1780	441	83	745	63	127	47	34
19	51	89	1570	126	1260	258	87	3560	58	173	46	34
20	153	88	1350	701	1150	202	85	1920	54	62	44	32
21	138	87	526	516	1100	326	86	1450	53	54	43	29
22	136	86	250	335	699	665	83	2630	67	50	42	30
23	128	86	98	578	236	447	78	2560	70	238	42	28
24	88	86	81	610	210	347	75	1780	62	105	41	29
25	83	89	71	324	249	287	71	1530	55	71	57	29
26	85	91	66	249	508	240	67	633	51	69	50	28
27	100	90	70	215	686	204	65	479	50	402	57	27
28	99	98	104	186	450	178	64	404	58	440	48	28
29	98	96	90	190	---	162	62	323	52	1390	46	27
30	97	94	64	435	---	152	60	271	47	2850	42	26
31	97	---	57	890	---	140	---	217	---	1770	41	---
TOTAL	2081	2838	9302	6101	15031	15805	3267	19832	6844	13529	3638	1021
MEAN	67.1	94.6	300	197	537	510	109	640	228	436	117	34.0
MAX	153	120	2940	890	2530	1960	197	3560	1700	2850	959	47
MIN	38	86	22	36	118	140	60	48	47	43	41	26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2001, BY WATER YEAR (WY)

MEAN	160	326	601	725	926	1000	655	628	293	182	107	113
MAX	733	993	2630	1954	2886	3226	2291	2116	928	841	382	585
(WY)	1990	1987	1979	1974	1989	1997	1972	1996	1974	1971	1979	1979
MIN	30.1	28.4	53.6	45.2	249	133	109	62.1	34.4	33.6	34.7	30.4
(WY)	1981	1982	1982	1981	1969	1969	2001	1976	1999	1999	1988	1998

03216500 LITTLE SANDY RIVER AT GRAYSON, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1969 - 2001	
ANNUAL TOTAL	110698		99289			
ANNUAL MEAN	302		272		474	
HIGHEST ANNUAL MEAN					838	1979
LOWEST ANNUAL MEAN					116	1969
HIGHEST DAILY MEAN	6200	Feb 19	3560	May 19	14600	Mar 2 1997
LOWEST DAILY MEAN	22	Dec 9	22	Dec 9	5.8	Oct 1 1968
ANNUAL SEVEN-DAY MINIMUM	23	Dec 7	23	Dec 7	18	Nov 1 1968
MAXIMUM PEAK FLOW			4780	May 19	24500	Sep 22 1950
MAXIMUM PEAK STAGE			18.35	May 19	30.57	Mar 2 1997
INSTANTANEOUS LOW FLOW					1.5	Oct 12 1953
10 PERCENT EXCEEDS	725		666		1350	
50 PERCENT EXCEEDS	90		88		161	
90 PERCENT EXCEEDS	42		37		39	

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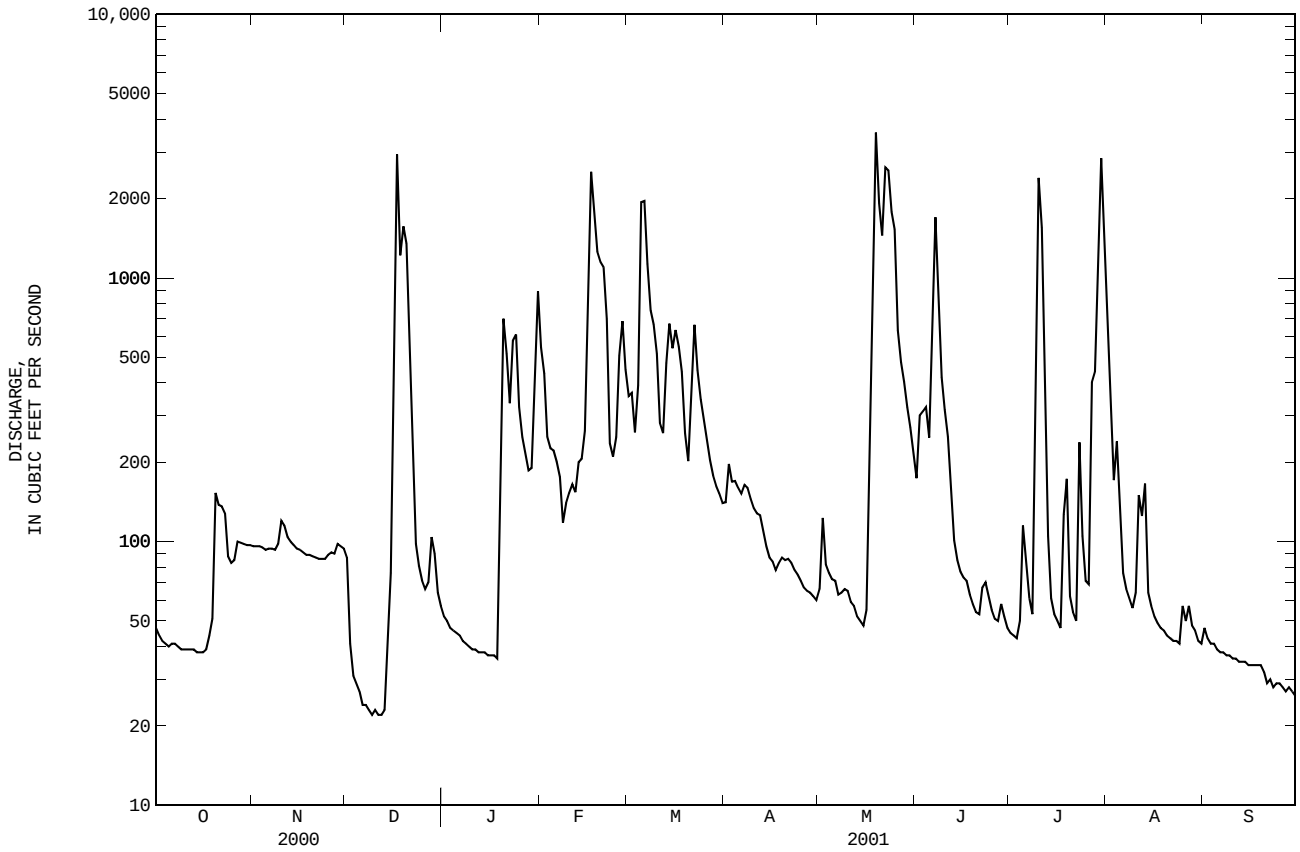


03216600 OHIO RIVER AT GREENUP DAM NEAR GREENUP, KY

LOCATION.--Lat 38°38'48", long 82°51'38", Greenup County, Hydrologic Unit 05090103, at left bank at downstream end of lock guidewall in lower pool at Greenup locks, 1.1 mi upstream from Grays Branch, 4.7 mi downstream from Little Sandy River, 5.0 mi north of Greenup, and at mile 341.5.

DRAINAGE AREA.--62,000 mi^2, approximately.

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

GAGE.--Records of Greenup Dam gate operations and hydropower releases are furnished by the U.S. Army Corps of Engineers and are used to determine daily discharge. Water-stage recorder in Greenup Dam tailwater for peak stage determinations. Datum of gage is 472.43 ft above NGVD of 1929 or 472.97 ft Ohio River Datum. Auxiliary water-stage recorder is located at the waste water treatment plant in Portsmouth, Ohio, 14.1 mi downstream, established Oct. 1, 1981 and used in slope rating computation from Oct. 1, 1981 to Sept. 30, 1983. Datum of gage is 470.43 ft above NGVD of 1929 or 470.99 ft Ohio River Datum. Record of Greenup Dam headwater, tailwater, gate openings and lockages used to determine discharge from Oct. 1, 1968 to Sept. 30, 1981. Slope rating computation from Oct. 1, 1981 to Sept. 30, 1983, and Branch Flow Model from Oct. 1, 1983 to current year.

REMARKS.--Records good except for those below 20,000 ft^3/s and those estimated, which are poor. Flow regulated by Ohio River system of locks, dams, and reservoirs upstream from the station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37000	16200	37500	33100	202000	54600	71600	40000	59700	21300	148000	48200
2	31300	14400	47900	19600	200000	49700	99900	37300	e69400	39700	108000	19200
3	29000	13700	40400	29300	145000	e53000	97600	32800	79200	33700	77900	24400
4	23800	20500	28700	18700	125000	e68000	e88600	29200	98100	25000	47000	23500
5	20200	19000	37000	25200	112000	80200	79500	26000	89100	43800	33700	21300
6	20600	14000	31200	25900	89100	87600	69500	35000	93800	26500	46100	21300
7	32900	13600	29600	26500	81400	88500	92500	27900	132000	50200	31200	17900
8	34500	14000	26900	20800	60300	66900	113000	21400	154000	37600	36400	13600
9	35600	17400	28300	28300	58200	63600	122000	19400	157000	115000	30200	13200
10	30600	27800	22500	25100	55300	57700	129000	24700	121000	108000	23000	11500
11	33400	23600	23700	23000	72100	58600	174000	24800	85400	68100	22100	11700
12	33700	26000	22800	20000	103000	45100	225000	20700	62000	61400	26000	16100
13	31000	27300	36100	26500	108000	79700	228000	32800	55800	38700	45300	14300
14	29400	32700	47200	22200	98000	104000	193000	18500	45600	30100	50900	11300
15	26500	24700	54800	16900	91900	123000	151000	16300	39700	30200	36100	17300
16	21200	25900	75500	25100	168000	134000	112000	25200	34300	24600	34000	15600
17	17900	26800	152000	26200	241000	142000	118000	86100	30800	15700	27900	13400
18	20600	21300	179000	26400	272000	152000	131000	149000	40300	26900	18500	9630
19	20300	19500	e183000	51300	261000	145000	125000	245000	26800	31300	15500	17400
20	35800	22000	167000	96800	190000	127000	e115000	274000	25100	28500	13600	20800
21	25600	17900	135000	133000	160000	145000	106000	232000	25100	22700	15100	10700
22	26000	20400	115000	120000	131000	e163000	120000	221000	31900	22100	21200	17800
23	13300	20400	90900	83700	111000	e190000	107000	276000	36300	20300	33800	23400
24	18400	21900	74700	71000	91800	183000	94300	307000	35400	22400	30200	15900
25	20300	21100	54600	67000	68300	159000	86200	287000	53300	16500	23400	12900
26	20200	16400	39600	53400	70400	114000	e75000	192000	49100	18300	14500	28200
27	16200	16500	28600	44400	78800	98400	66300	153000	25600	84200	13200	22800
28	14600	32100	38700	45500	61200	79600	53400	147000	29100	78000	34300	22900
29	13600	39700	29700	32200	---	66600	51500	122000	25300	95100	42600	20800
30	17800	39300	31500	58800	---	58800	41800	88700	24300	155000	13800	15400
31	16200	---	27500	143000	---	58300	---	65800	---	188000	13600	---
TOTAL	767500	666100	1936900	1438900	3505800	3095900	3336700	3277600	1834500	1578900	1127100	552430
MEAN	24760	22200	62480	46420	125200	99870	111200	105700	61150	50930	36360	18410
MAX	37000	39700	183000	143000	272000	190000	228000	307000	157000	188000	148000	48200
MIN	13300	13600	22500	16900	55300	45100	41800	16300	24300	15700	13200	9630

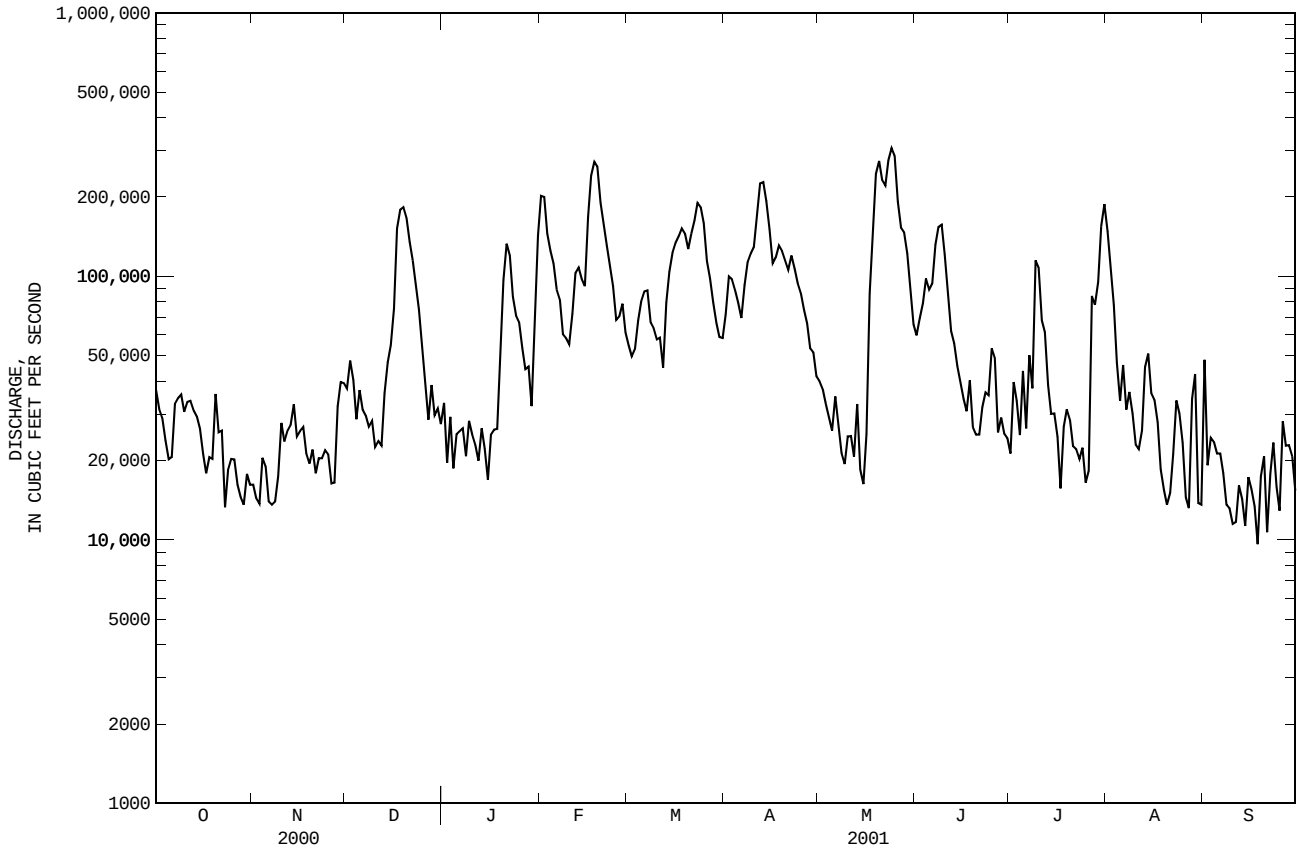
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2001, BY WATER YEAR (WY)

MEAN	38650	67810	108100	117000	144400	161900	140400	104300	66250	44570	36340	32170
MAX	111300	208600	252700	242700	259100	268600	258400	276700	174000	100700	113600	86310
(WY)	1980	1986	1973	1974	1994	1994	1994	1996	1981	1972	1980	1979
MIN	11310	14720	24080	27170	66240	53550	52660	36610	13440	13040	11270	9706
(WY)	1992	1999	1999	1977	1978	1969	1986	1976	1988	1999	1988	1999

03216600 OHIO RIVER AT GREENUP DAM NEAR GREENUP, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1969 - 2001	
ANNUAL TOTAL	24048100		23118330			
ANNUAL MEAN	65710		63340		88200	
HIGHEST ANNUAL MEAN					120100	1996
LOWEST ANNUAL MEAN					49760	1988
HIGHEST DAILY MEAN	433000	Feb 21	307000	May 24	540000	Jan 12 1974
LOWEST DAILY MEAN	13300	Oct 23	9630	Sep 18	3920	Jun 11 1999
ANNUAL SEVEN-DAY MINIMUM	15200	Oct 28	13100	Sep 8	7740	Sep 22 1999
MAXIMUM PEAK FLOW			311000	May 24	540000	Jan 12 1974
MAXIMUM PEAK STAGE			43.23	May 24	54.50	Feb 21 2000
10 PERCENT EXCEEDS	140000		148000		201000	
50 PERCENT EXCEEDS	40200		36100		61300	
90 PERCENT EXCEEDS	20000		16500		17000	

e Estimated



03216600 OHIO RIVER AT GREENUP DAM, KY--Continued

(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to September 1986, 1997 to current water year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE.--October 1974 to September 1981.
WATER TEMPERATURES.--October 1974 to September 1981.

REMARKS.--Flow regulated by Ohio River system of locks, dams, and reservoirs.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY (NTU) (00076)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)
OCT												
26...	1610	ENVIRONMENTAL	20300	7.6	17	.070	.057	752	7.7	7.5	7.8	400
NOV												
30...	1500	ENVIRONMENTAL	38600	4.5	13	.065	.048	753	10.5	7.6	7.8	325
30...	1508	FIELD BLANK	--	--	--	--	--	--	--	--	--	--
JAN												
11...	1530	ENVIRONMENTAL	21100	13	10	.073	.055	752	15.0	7.9	7.5	209
11...	1540	REPLICATE	--	13	--	.072	.054	--	--	--	7.3	--
FEB												
08...	1430	ENVIRONMENTAL	73700	30	36	.062	.048	754	14.2	7.7	7.6	261
MAR												
07...	1500	ENVIRONMENTAL	92000	32	36	.064	.048	750	12.7	8.0	7.6	189
07...	1508	FIELD BLANK	--	--	--	--	--	--	--	--	--	--
21...	1430	ENVIRONMENTAL	129000	27	30	.050	.037	745	12.9	7.9	7.7	264
APR												
12...	1520	ENVIRONMENTAL	208000	59	80	.056	.042	744	10.7	7.9	7.7	265
12...	1528	FIELD BLANK	--	--	--	--	--	--	--	--	--	--
24...	1000	ENVIRONMENTAL	95800	28	33	.061	.045	747	10.2	7.5	7.7	309
24...	1008	FIELD BLANK	--	--	--	--	--	--	--	--	--	--
MAY												
09...	1510	ENVIRONMENTAL	17800	7.0	8.8	.057	.043	747	10.5	8.0	7.8	349
09...	1520	REPLICATE	--	9.2	7.3	.057	.043	--	--	--	7.9	--
23...	1420	ENVIRONMENTAL	274000	140	150	.138	.104	745	7.6	7.2	7.6	255
JUN												
06...	1340	ENVIRONMENTAL	78200	--	28	.065	.046	745	8.1	7.3	7.5	364
06...	1348	FIELD BLANK	--	--	--	--	--	--	--	--	--	--
26...	1530	ENVIRONMENTAL	45000	--	2.9	.067	.049	--	6.8	7.5	7.4	362
26...	1540	REPLICATE	--	--	10	--	--	--	--	--	7.6	--
JUL												
24...	1430	ENVIRONMENTAL	20300	--	23	.079	.057	750	6.1	7.3	7.5	372
AUG												
30...	1410	ENVIRONMENTAL	4200	--	11	.059	.042	747	8.2	8.0	8.1	458
SEP												
11...	1550	ENVIRONMENTAL	8300	--	9.8	.063	.044	754	6.2	7.6	7.8	490

03216600 OHIO RIVER AT GREENUP DAM, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
OCT													
26...	25.6	19.1	130	35.7	11.0	2.91	31.6	59	49	60	30.3	.2	4.3
NOV													
30...	1.7	8.8	130	35.3	10.4	2.90	28.9	68	61	75	33.8	.2	3.7
30...	--	--	--	.01	<.001	--	<.025	--	--	--	--	--	<.02
JAN													
11...	8.0	1.0	110	29.8	8.81	2.73	22.1	54	43	52	29.2	E.1	5.2
11...	--	--	110	29.8	8.79	2.77	21.9	54	--	--	29.3	E.1	5.1
FEB													
08...	18.3	3.0	110	31.1	8.24	2.61	35.1	50	45	55	56.0	E.1	5.1
MAR													
07...	5.2	5.6	95	25.4	7.48	2.07	15.2	46	44	54	18.8	<.2	5.1
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	6.1	6.9	110	31.3	8.63	2.11	26.0	51	46	56	37.7	.2	4.4
APR													
12...	25.0	14.2	120	33.8	9.04	1.82	17.9	54	51	62	26.3	E.1	4.1
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	18.3	14.0	110	29.6	7.95	2.06	16.4	50	40	49	25.2	E.1	5.1
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
09...	25.0	19.3	120	31.5	9.42	2.24	20.5	58	52	64	25.4	E.1	3.8
09...	--	--	120	31.7	9.50	2.31	20.7	57	--	--	25.1	E.2	3.7
23...	17.7	17.9	92	24.5	7.32	2.20	11.2	47	44	54	12.8	.2	5.9
JUN													
06...	24.4	19.2	140	36.5	10.7	2.27	19.6	59	55	68	20.1	E.1	5.9
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	26.1	130	34.6	10.1	2.38	20.5	65	56	68	23.4	E.1	5.2
26...	--	--	130	34.4	10.1	2.35	20.7	65	--	--	22.9	E.1	5.2
JUL													
24...	37.0	27.7	110	29.0	8.82	2.56	21.6	55	53	53	23.0	.2	4.6
AUG													
30...	34.3	27.8	130	33.6	11.7	2.85	30.8	63	51	63	32.3	.2	.8
SEP													
11...	28.5	27.2	140	35.7	12.2	3.51	34.2	68	52	63	34.9	.2	3.1

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
OCT													
26...	94.3	263	.053	.37	.29	1.01	.024	.029	.028	.051	--	--	2.3
NOV													
30...	74.2	240	.054	.24	.34	.866	.010	.028	.027	.038	.5	<.1	2.6
30...	--	--	<.002	--	--	<.005	<.001	--	<.007	--	--	--	--
JAN													
11...	63.1	210	.139	.39	<.08	1.28	.013	.028	.020	.054	.5	<.1	2.7
11...	62.8	212	.136	.37	.48	1.29	.014	.027	.019	.055	.6	<.1	2.7
FEB													
08...	60.4	251	.148	.33	.62	1.34	.019	.028	.015	.099	1.4	<.1	2.7
MAR													
07...	54.1	188	.055	.26	.44	.928	.012	.015	E.006	.073	--	--	2.4
07...	--	--	--	--	--	--	--	--	--	--	--	--	E.27
21...	66.1	220	.069	.24	.38	1.02	.019	.014	.008	.087	1.5	<.1	1.9
APR													
12...	67.4	207	<.041	.18	.64	.883	.017	.011	.007	.169	3.7	<.1	2.0
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	55.6	201	E.031	.18	.47	.828	.018	.016	.009	.093	2.2	<.1	2.6
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
09...	66.4	219	<.041	.20	.25	.789	.009	E.004	<.007	.024	.8	M	2.3
09...	66.4	214	<.041	.20	.20	.782	.008	.007	<.007	.028	.7	M	2.2
23...	44.5	151	E.034	.30	.86	.691	.013	.017	E.004	.216	6.7	.2	4.3
JUN													
06...	81.7	244	E.022	.21	.37	.906	.022	.020	.014	.065	1.0	<.1	2.7
06...	--	--	--	--	--	--	--	--	--	--	--	--	.62
26...	66.5	223	E.027	.23	.30	.919	.015	.016	.010	.026	.7	<.1	2.5
26...	66.4	225	E.026	.27	.33	.918	.015	.016	.009	.025	--	--	--
JUL													
24...	63.2	210	<.040	.17	.16	.850	.058	.013	.008	.012	.8	.1	2.8
AUG													
30...	90.9	259	<.040	.24	.46	<.050	<.006	E.005	<.007	.028	1.0	<.1	2.7
SEP													
11...	94.2	275	<.040	.24	.28	.810	.057	.011	<.007	.025	.8	<.1	2.7

03216600 OHIO RIVER AT GREENUP DAM, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	PHEO-PHYTIN A, PHYTO-PHYTON (UG/L) (62360)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)
OCT													
26...	--	1.5	.5	--	--	<2.0	63	--	--	--	--	<10	--
NOV													
30...	.5	1.0	.5	--	--	<2.0	56	--	--	--	--	M	--
30...	--	--	--	<.3	<.20	--	<2	<.30	<.2	<.20	<.2	<3	<.30
JAN													
11...	.5	.5	E.5	--	--	.4	40	--	--	--	--	30	--
11...	.6	.6	.5	--	--	.5	38	--	--	--	--	30	--
FEB													
08...	1.4	E2.2	E1.0	--	--	.3	37	--	--	--	--	20	--
MAR													
07...	--	1.9	2.3	--	--	.3	26	--	--	--	--	30	--
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	1.5	E.7	E.9	--	--	.3	31	--	--	--	--	30	--
APR													
12...	3.7	12	12.9	--	--	.3	36	--	--	--	--	20	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	2.2	4.0	3.0	--	--	.4	32	--	--	--	--	10	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
09...	E.8	7.7	7.4	--	--	.4	34	--	--	--	--	M	--
09...	E.7	6.4	9.2	--	--	.4	35	--	--	--	--	M	--
23...	6.5	9.2	3.1	--	--	.5	34	--	--	--	--	40	--
JUN													
06...	1.0	1.4	1.0	--	--	.5	38	--	--	--	--	M	--
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	.7	2.6	3.2	--	--	.5	42	--	--	--	--	<10	--
26...	--	2.3	3.3	--	--	.6	43	--	--	--	--	<10	--
JUL													
24...	.7	2.3	3.1	--	--	.5	50	--	--	--	--	<10	--
AUG													
30...	1.0	6.5	15.0	--	--	.6	60	--	--	--	--	<10	--
SEP													
11...	.8	2.4	3.8	--	--	.6	66	--	--	--	--	<10	--

DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)
OCT													
26...	8.6	--	--	--	<2.4	--	241	<8.0	--	<.002	<.004	<.002	<.005
NOV													
30...	7.2	--	--	--	<2.4	--	209	<8.0	--	<.002	<.004	<.002	<.005
30...	--	<.1	<.2	<.50	--	<.2	<.10	--	<.5	--	--	--	--
JAN													
11...	5.2	--	--	--	.5	--	164	1.2	--	<.002	<.004	<.002	<.005
11...	5.0	--	--	--	.5	--	165	1.2	--	<.002	<.004	<.002	<.005
FEB													
08...	4.7	--	--	--	.4	--	170	.4	--	<.002	<.004	<.002	<.005
MAR													
07...	4.6	--	--	--	.3	--	148	.2	--	<.002	<.004	<.002	<.005
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	5.1	--	--	--	E.3	--	178	.3	--	<.002	<.004	<.002	<.005
APR													
12...	5.7	--	--	--	E.3	--	187	.5	--	<.002	<.004	<.002	<.005
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	4.7	--	--	--	.4	--	154	.7	--	<.002	<.004	<.002	<.005
24...	--	--	--	--	--	--	--	--	--	<.002	<.004	<.002	<.005
MAY													
09...	6.0	--	--	--	.5	--	186	.3	--	<.002	<.005	<.002	<.005
09...	6.2	--	--	--	E.3	--	186	.2	--	<.002	<.004	<.002	<.005
23...	3.8	--	--	--	.4	--	132	.3	--	<.002	.122	.006	<.005
JUN													
06...	5.5	--	--	--	.4	--	205	.4	--	<.002	.029	<.002	<.005
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	4.9	--	--	--	.5	--	210	.3	--	<.002	.014	<.002	<.005
26...	6.9	--	--	--	.5	--	208	.3	--	<.002	.013	<.002	<.005
JUL													
24...	6.0	--	--	--	.6	--	199	.3	--	<.002	<.004	<.002	<.005
AUG													
30...	8.9	--	--	--	.6	--	282	.3	--	<.002	<.004	<.002	<.005
SEP													
11...	10.6	--	--	--	.4	--	274	.5	--	<.002	<.004	<.002	<.005

03216600 OHIO RIVER AT GREENUP DAM, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
OCT													
26...	.039	<.010	<.002	<.041	--	<.005	E.007	<.003	E.011	.005	<.005	<.021	<.004
NOV													
30...	.035	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.012	E.004	<.005	<.021	<.002
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
11...	.028	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.014	E.004	<.005	<.021	<.007
11...	.027	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.014	E.003	<.005	<.021	<.007
FEB													
08...	.023	<.010	<.002	E.005	<.020	<.005	<.018	<.003	E.011	<.005	<.005	<.021	<.002
MAR													
07...	.009	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.005	<.005	<.005	<.021	<.002
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.004	<.005	<.005	<.021	<.002
APR													
12...	.032	<.010	<.002	E.005	<.020	<.005	<.018	<.003	E.005	E.002	<.005	<.021	<.002
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	.021	<.010	<.002	E.012	<.020	<.005	<.018	<.003	E.008	E.005	<.005	<.021	<.002
24...	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.021	<.002
MAY													
09...	.025	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.009	<.005	<.005	<.021	<.005
09...	.024	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.009	<.005	<.005	<.021	<.002
23...	.479	<.010	<.002	E.155	E.154	<.005	<.020	<.003	<.006	E.005	<.005	<.021	<.003
JUN													
06...	.372	<.010	<.002	E.002	<.020	<.005	<.018	<.003	E.036	<.005	<.005	<.021	<.002
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	.255	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.015	E.004	<.005	<.021	<.002
26...	.252	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.014	E.004	<.005	<.021	<.002
JUL													
24...	.066	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.010	E.004	<.005	<.021	<.002
AUG													
30...	.075	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.014	<.005	<.005	<.021	<.002
SEP													
11...	.042	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.011	E.005	<.005	<.021	<.002

DATE	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)
OCT													
26...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.011	<.006	<.002	<.007	<.003
NOV													
30...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.006	<.006	<.002	<.007	<.003
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
11...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.008	<.006	<.002	<.007	<.003
11...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.008	<.006	<.002	<.007	<.003
FEB													
08...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.009	<.006	<.002	<.007	<.003
MAR													
07...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.004	<.006	<.002	<.007	<.003
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.002	<.006	<.002	<.007	<.003
APR													
12...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.027	<.006	<.002	<.007	<.003
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.010	<.006	<.002	<.007	<.003
24...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003
MAY													
09...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.011	<.006	<.002	<.007	<.003
09...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.011	<.006	<.002	<.007	<.003
23...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.116	.006	<.002	<.007	<.003
JUN													
06...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.089	<.006	.004	<.007	<.003
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.057	<.006	<.002	<.007	<.003
26...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.063	<.006	<.002	<.007	<.003
JUL													
24...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.018	<.006	<.002	<.007	<.003
AUG													
30...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.015	<.006	<.002	<.007	<.003
SEP													
11...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.010	<.006	<.002	<.007	<.004

03216600 OHIO RIVER AT GREENUP DAM, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
OCT													
26...	<.007	<.002	<.010	<.006	<.011	E.009	<.004	<.010	<.011	<.023	E.009	E.006	<.034
NOV													
30...	<.007	<.002	<.010	<.006	<.011	E.006	<.004	<.010	<.011	<.023	E.007	<.016	<.034
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
11...	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	E.007	<.016	<.034
11...	<.007	<.002	<.010	<.006	<.011	E.003	<.004	<.010	<.011	<.023	E.006	<.016	<.034
FEB													
08...	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	E.011	<.034
MAR													
07...	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034
APR													
12...	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	E.004	<.016	<.034
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	<.007	<.002	<.010	<.006	<.011	E.005	<.004	<.010	<.011	<.023	E.011	<.016	<.034
24...	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034
MAY													
09...	<.007	<.002	<.010	<.006	<.011	E.005	<.004	<.010	<.011	<.023	.012	E.005	<.034
09...	<.007	<.002	<.010	<.006	<.011	E.004	<.004	<.010	<.011	<.023	E.011	E.005	<.034
23...	<.007	<.002	<.010	<.006	<.011	E.008	<.004	<.010	<.011	<.023	.145	E.009	<.034
JUN													
06...	<.007	<.002	<.010	<.006	<.011	E.006	<.004	<.010	<.011	<.023	.082	E.005	<.034
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.007	<.002	<.010	<.006	<.011	E.012	<.004	<.010	<.011	<.023	.043	E.005	<.034
26...	<.007	<.002	<.010	<.006	<.011	E.012	<.004	<.010	<.011	<.023	.042	E.005	<.034
JUL													
24...	<.007	<.002	<.010	<.006	<.011	E.012	<.004	<.010	<.011	<.023	.015	E.007	<.034
AUG													
30...	<.007	<.002	<.010	<.006	<.011	.017	<.004	<.010	<.011	<.023	.020	E.006	<.034
SEP													
11...	<.007	<.002	<.010	<.006	<.011	.028	<.004	<.010	<.011	<.023	.013	E.004	<.034

DATE	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT					
26...	<.017	<.005	<.002	100	17
NOV					
30...	<.017	<.005	<.002	98	9
30...	--	--	--	--	--
JAN					
11...	<.017	<.005	<.002	96	8
11...	<.017	<.005	<.002	--	--
FEB					
08...	<.017	<.005	<.002	99	41
MAR					
07...	<.017	<.005	<.002	99	53
07...	--	--	--	--	--
21...	<.017	<.005	<.002	97	46
APR					
12...	<.017	<.005	<.002	86	180
12...	--	--	--	--	--
24...	<.017	<.005	<.002	86	59
24...	<.017	<.005	<.002	--	--
MAY					
09...	<.017	<.005	<.002	97	9
09...	<.017	<.005	<.002	--	--
23...	<.017	<.005	<.002	73	323
JUN					
06...	<.017	<.005	<.002	99	43
06...	--	--	--	--	--
26...	<.017	<.005	<.002	97	16
26...	<.017	<.005	<.002	--	--
JUL					
24...	<.017	<.005	<.002	100	21
AUG					
30...	<.017	<.005	<.002	97	16
SEP					
11...	<.017	<.005	<.002	98	9

E Estimated
M Presence of material verified but not quantified

TYGARTS CREEK BASIN

03217000 TYGARTS CREEK NEAR GREENUP, KY

LOCATION.--Lat 38°33'51", long 82°57'08", Greenup County, Hydrologic Unit 05090103, on downstream side of center pier of bridge on State Highway 7, 100 ft downstream from Lick Run, 0.4 mi upstream from White Oak Creek, 6.5 mi west of Greenup, and at mile 28.1.

DRAINAGE AREA.--242 mi^2.

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

REVISED RECORDS.--WSP 1113: 1942-43, 1945-46. WSP 1625: 1958. WSP 1725: Drainage area. WRD KY 79-1: 1948(P), 1950(M), 1952(M), 1962(M), 1967(P), 1970(M), 1972-76(M), 1978(M).

GAGE.--Water-stage recorder. Datum of gage is 547.14 ft above NGVD of 1929.

REMARKS.--Records fair except for daily discharges below 10 ft^3/s and for those estimated, which are poor. Occasional diversion at low flow caused by withdrawal of water for cooling purposes by gas transmission plant above station.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 19	0330	*6,920	*17.84	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	6.5	e13	e82	416	251	160	35	194	40	255	95
2	40	6.3	e12	e74	311	222	165	34	353	40	195	121
3	34	6.0	e13	e70	250	202	195	39	410	36	147	100
4	29	5.7	e13	e64	203	585	185	37	301	35	121	85
5	25	5.4	e13	e60	182	2670	169	44	297	52	105	71
6	23	5.8	e13	e56	162	1070	157	45	559	116	94	61
7	20	5.4	e14	e54	143	576	169	38	1240	80	84	54
8	16	6.1	e15	e50	125	425	176	30	626	59	74	49
9	13	7.4	e15	e48	113	348	165	29	367	870	68	44
10	12	28	e16	e44	125	290	153	27	266	672	79	41
11	11	166	e16	e42	172	251	140	26	208	214	969	37
12	12	91	e17	e40	167	225	130	26	170	145	339	34
13	11	55	e18	e38	146	257	116	22	144	112	184	32
14	9.2	41	e230	e37	139	301	104	19	124	91	131	30
15	7.4	32	e215	e36	267	262	93	16	125	78	102	28
16	5.6	27	e900	e35	931	308	88	42	175	67	86	26
17	4.0	22	e2000	e34	2550	488	81	360	184	59	77	24
18	2.6	19	e800	e34	1010	416	76	2500	142	67	67	22
19	.92	17	e330	e250	534	333	71	5650	106	131	63	20
20	.43	15	e260	e1300	396	289	69	2640	88	125	61	19
21	51	e14	e230	e600	314	1140	69	708	76	94	55	17
22	129	e13	e200	e330	259	1680	69	1740	70	85	50	16
23	22	e13	e180	e220	229	725	67	1680	72	186	47	16
24	10	e13	e165	e200	206	481	60	695	67	174	119	15
25	7.8	e15	e140	e190	224	375	54	963	59	113	89	15
26	16	e16	e130	e180	446	307	48	598	56	92	64	11
27	12	e17	e120	e210	356	261	44	399	51	106	634	6.9
28	6.9	e17	e110	e280	290	229	41	327	46	235	317	10
29	5.1	e16	e100	580	---	207	38	269	48	1060	163	6.0
30	3.4	e15	e94	516	---	191	36	214	41	1390	111	2.6
31	4.0	---	e88	683	---	174	---	175	---	427	91	---
TOTAL	592.35	716.6	6480	6437	10666	15539	3188	19427	6665	7051	5041	1108.5
MEAN	19.1	23.9	209	208	381	501	106	627	222	227	163	37.0
MAX	129	166	2000	1300	2550	2670	195	5650	1240	1390	969	121
MIN	.43	5.4	12	34	113	174	36	16	41	35	47	2.6
CFSM	.08	.10	.86	.86	1.57	2.07	.44	2.59	.92	.94	.67	.15
IN.	.09	.11	1.00	.99	1.64	2.39	.49	2.99	1.02	1.08	.77	.17

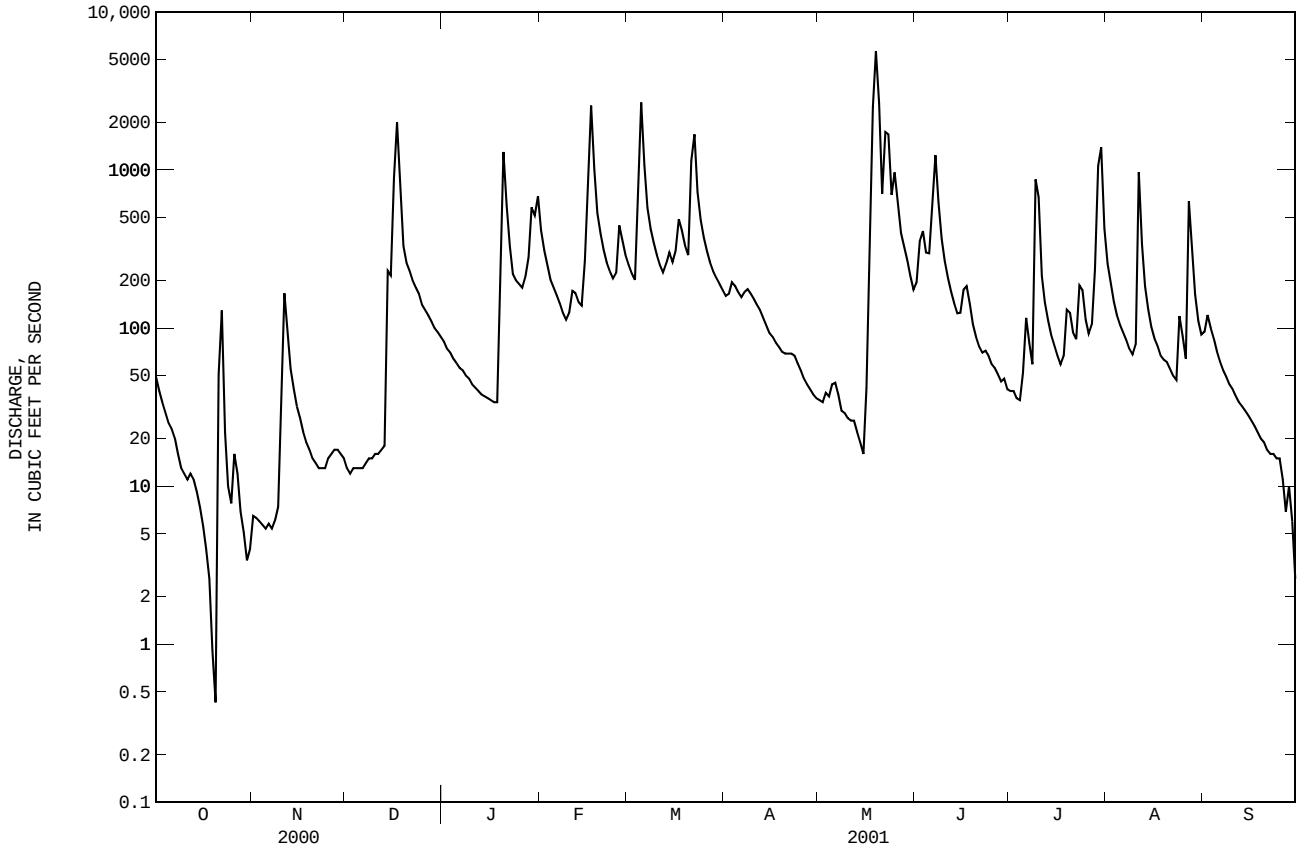
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	55.1	148	375	477	612	690	505	388	178	116	82.3	66.0
MAX	509	869	1954	1665	1953	2092	1513	1309	994	645	445	1031
(WY)	1976	1987	1979	1950	1989	1997	1972	1996	1961	1960	1979	1950
MIN	.35	.70	3.23	31.1	20.7	80.8	90.9	27.6	4.16	3.91	2.09	1.21
(WY)	1954	1954	1954	1977	1954	1941	1941	1941	1999	1999	1944	1998

03217000 TYGARTS CREEK NEAR GREENUP, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL TOTAL	80768.45		82911.45			
ANNUAL MEAN	221		227		307	
HIGHEST ANNUAL MEAN					589	1979
LOWEST ANNUAL MEAN					67.5	1954
HIGHEST DAILY MEAN	12100	Feb 19	5650	May 19	25800	Mar 2 1997
LOWEST DAILY MEAN	.43	Oct 20	.43	Oct 20	.00	Aug 24 1952
ANNUAL SEVEN-DAY MINIMUM	4.3	Oct 14	4.3	Oct 14	.00	Sep 17 1955
MAXIMUM PEAK FLOW			6920	May 19	34400	Mar 2 1997
MAXIMUM PEAK STAGE			17.84	May 19	23.65	Mar 2 1997
INSTANTANEOUS LOW FLOW					.00	Aug 24 1952
ANNUAL RUNOFF (CFSM)	.91		.94		1.27	
ANNUAL RUNOFF (INCHES)	12.42		12.75		17.21	
10 PERCENT EXCEEDS	435		523		692	
50 PERCENT EXCEEDS	64		88		91	
90 PERCENT EXCEEDS	13		13		4.9	

e Estimated



KINNICONICK CREEK BASIN

03237250 KINNICONICK CREEK AT TANNERY, KY

LOCATION.--Lat 38°32'36", long 83°13'29", Lewis County, Hydrologic Unit 05090201, near right bank on downstream side of bridge on County Highway 1149, 0.35 mi upstream from Trace Creek, 0.5 mi west of Tannery, and 10.2 mi upstream from mouth.

DRAINAGE AREA.--201 mi^2.

PERIOD OF RECORD.--October 1991 to December 7, 2000 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 535,34 ft above NGVD of 1929.

REMARKS.--Records poor.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,868.36 ft^3/s, July 22; minimum discharge, 2.23 ft^3/s, Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

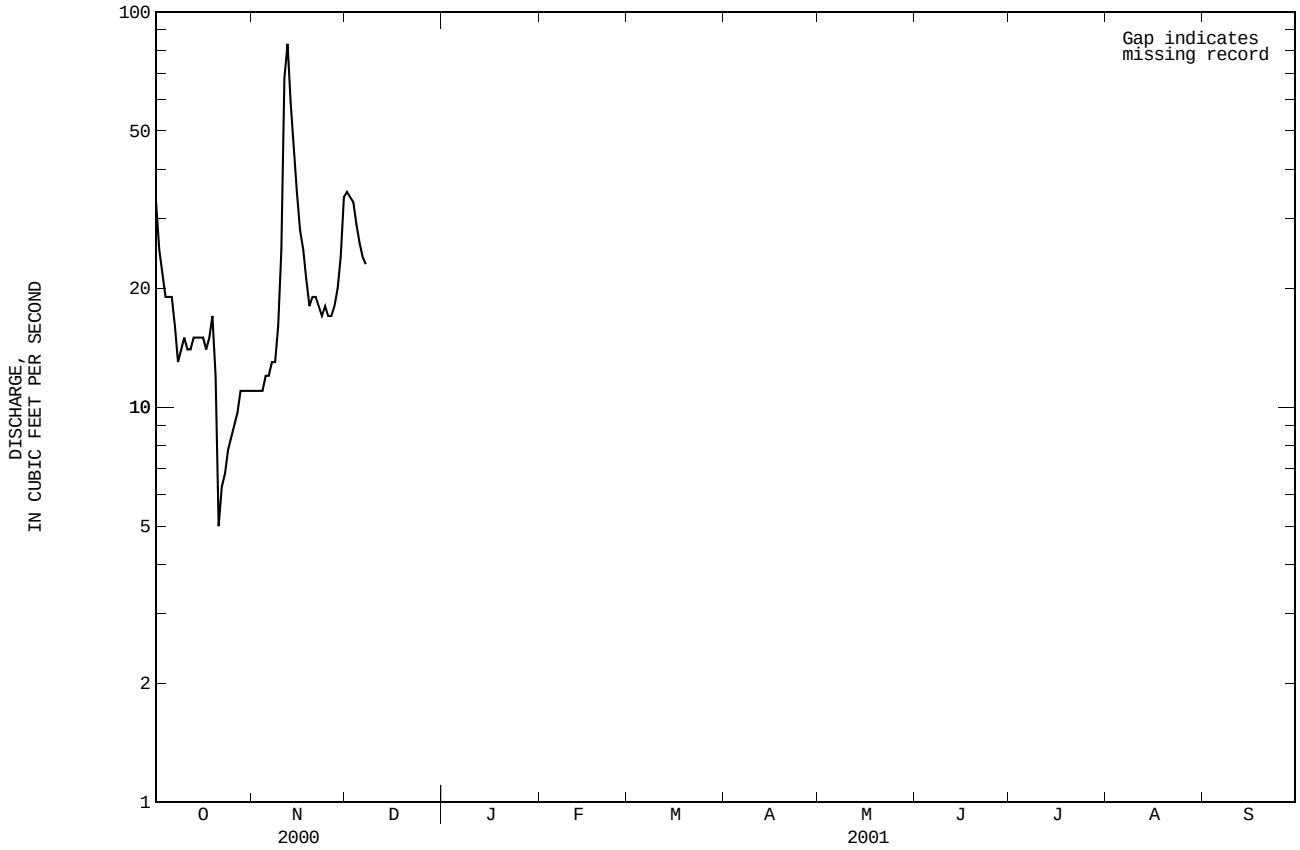
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	11	35	---	---	---	---	---	---	---	---	---
2	25	11	34	---	---	---	---	---	---	---	---	---
3	22	11	33	---	---	---	---	---	---	---	---	---
4	19	11	29	---	---	---	---	---	---	---	---	---
5	19	12	26	---	---	---	---	---	---	---	---	---
6	19	12	24	---	---	---	---	---	---	---	---	---
7	16	13	23	---	---	---	---	---	---	---	---	---
8	13	13	---	---	---	---	---	---	---	---	---	---
9	14	16	---	---	---	---	---	---	---	---	---	---
10	15	25	---	---	---	---	---	---	---	---	---	---
11	14	68	---	---	---	---	---	---	---	---	---	---
12	14	83	---	---	---	---	---	---	---	---	---	---
13	15	59	---	---	---	---	---	---	---	---	---	---
14	15	46	---	---	---	---	---	---	---	---	---	---
15	15	35	---	---	---	---	---	---	---	---	---	---
16	15	28	---	---	---	---	---	---	---	---	---	---
17	14	25	---	---	---	---	---	---	---	---	---	---
18	15	21	---	---	---	---	---	---	---	---	---	---
19	17	18	---	---	---	---	---	---	---	---	---	---
20	12	19	---	---	---	---	---	---	---	---	---	---
21	5.0	19	---	---	---	---	---	---	---	---	---	---
22	6.3	18	---	---	---	---	---	---	---	---	---	---
23	6.8	17	---	---	---	---	---	---	---	---	---	---
24	7.8	18	---	---	---	---	---	---	---	---	---	---
25	8.4	17	---	---	---	---	---	---	---	---	---	---
26	9.0	17	---	---	---	---	---	---	---	---	---	---
27	9.7	18	---	---	---	---	---	---	---	---	---	---
28	11	20	---	---	---	---	---	---	---	---	---	---
29	11	24	---	---	---	---	---	---	---	---	---	---
30	11	34	---	---	---	---	---	---	---	---	---	---
31	11	---	---	---	---	---	---	---	---	---	---	---
TOTAL	438.0	739	---	---	---	---	---	---	---	---	---	---
MEAN	14.1	24.6	---	---	---	---	---	---	---	---	---	---
MAX	33	83	---	---	---	---	---	---	---	---	---	---
MIN	5.0	11	---	---	---	---	---	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2001, BY WATER YEAR (WY)

MEAN	24.9	92.0	213	519	610	774	442	405	223	72.3	50.3	13.8
MAX	130	340	468	1025	1385	2242	743	1187	800	161	189	69.5
(WY)	1996	1994	1997	1994	2000	1997	1998	1996	1998	1996	1995	2000
MIN	.000	2.20	45.6	75.4	293	345	117	4.71	3.84	1.90	4.61	.98
(WY)	2000	1998	2000	2000	1995	1995	1999	1999	1999	1999	1997	1999

03237250 KINNICONICK CREEK AT TANNERY, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1992 - 2001	
ANNUAL MEAN					286	
HIGHEST ANNUAL MEAN					408	1997
LOWEST ANNUAL MEAN					137	1999
HIGHEST DAILY MEAN	20600	Feb 19	83	Nov 12	20600	Feb 19 2000
LOWEST DAILY MEAN	.39	Jul 28	5.0	Oct 21	.00	May 22 1999
ANNUAL SEVEN-DAY MINIMUM	1.1	Jul 24	7.6	Oct 21	.00	Sep 22 1999
MAXIMUM PEAK FLOW					45600	Mar 2 1997
MAXIMUM PEAK STAGE					28.04	Mar 2 1997
10 PERCENT EXCEEDS	489		34		681	
50 PERCENT EXCEEDS	28		17		65	
90 PERCENT EXCEEDS	6.4		9.6		1.3	



03238745 TWELVEMILE CREEK AT HIGHWAY 1997 NEAR ALEXANDRIA, KY

LOCATION.--Lat 38°57'15", long 84°20'18", Campbell County, Hydrologic Unit 05090201,at bridge on Highway 1997, 1.0 miles upstream from Lick Branch, 2.5 miles east of Alexandria, and 2.8 miles upstream from the mouth.

DRAINAGE AREA.--39.0 mi^2.

PERIOD OF RECORD.--January 17, 2001 to September 30, 2001.

GAGE.--Water-stage recorder. Datum of gage is 505.854 ft above NGVD of 1929.

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

COOPERATION.--Northern Kentucky Sanitation District No. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	41	17	15	4.7	28	2.0	10	42
2	---	---	---	---	27	16	14	4.6	22	2.3	6.0	13
3	---	---	---	---	21	15	12	4.2	17	1.5	14	6.8
4	---	---	---	---	18	378	11	4.1	94	3.8	21	4.9
5	---	---	---	---	16	124	9.2	4.1	62	2.5	8.2	4.1
6	---	---	---	---	15	38	22	4.4	559	1.7	4.2	2.1
7	---	---	---	---	14	28	59	5.9	150	4.3	2.5	1.5
8	---	---	---	---	13	25	22	11	36	23	1.6	1.2
9	---	---	---	---	38	21	15	4.3	20	50	1.4	2.8
10	---	---	---	---	111	18	13	2.8	13	14	2.1	5.2
11	---	---	---	---	32	17	12	2.0	9.7	5.6	48	1.3
12	---	---	---	---	23	16	10	4.7	7.7	2.8	228	1.1
13	---	---	---	---	19	34	8.4	2.0	8.7	1.7	15	.98
14	---	---	---	---	20	24	7.2	1.4	5.3	1.2	7.3	.84
15	---	---	---	---	32	18	7.7	2.6	13	1.0	3.5	.79
16	---	---	---	---	124	19	7.3	3.4	20	.95	1.8	.75
17	---	---	---	9.7	83	18	7.4	e21	9.2	.90	1.5	.75
18	---	---	---	7.0	34	15	7.4	e80	4.5	549	2.1	5.0
19	---	---	---	27	27	14	6.6	43	3.0	37	77	5.2
20	---	---	---	32	23	14	8.7	18	6.2	13	14	5.9
21	---	---	---	22	20	29	13	11	10	5.5	5.4	1.8
22	---	---	---	13	18	29	9.2	27	7.0	73	2.4	1.2
23	---	---	---	9.9	17	20	6.8	17	3.9	29	1.4	1.0
24	---	---	---	e8.8	16	17	6.4	28	2.4	9.4	1.2	3.6
25	---	---	---	e8.0	60	15	5.5	39	1.7	4.4	1.2	1.5
26	---	---	---	e7.4	35	14	4.8	18	1.3	287	e76	1.3
27	---	---	---	e7.0	23	13	4.6	44	1.1	31	e32	1.0
28	---	---	---	e6.6	19	13	4.3	25	1.1	396	e14	1.0
29	---	---	---	20	---	12	3.8	12	5.3	104	e7.0	.99
30	---	---	---	267	---	13	4.1	6.1	3.5	40	3.3	.82
31	---	---	---	95	---	12	---	3.9	---	17	e700	---
TOTAL	---	---	---	540.4	939	1056	337.4	459.2	1125.6	1714.55	1313.1	120.42
MEAN	---	---	---	36.0	33.5	34.1	11.2	14.8	37.5	55.3	42.4	4.01
MAX	---	---	---	267	124	378	59	80	559	549	700	42
MIN	---	---	---	6.6	13	12	3.8	1.4	1.1	.90	1.2	.75
CFSM	---	---	---	.92	.86	.87	.29	.38	.96	1.42	1.09	.10
IN.	---	---	---	.52	.90	1.01	.32	.44	1.07	1.64	1.25	.11

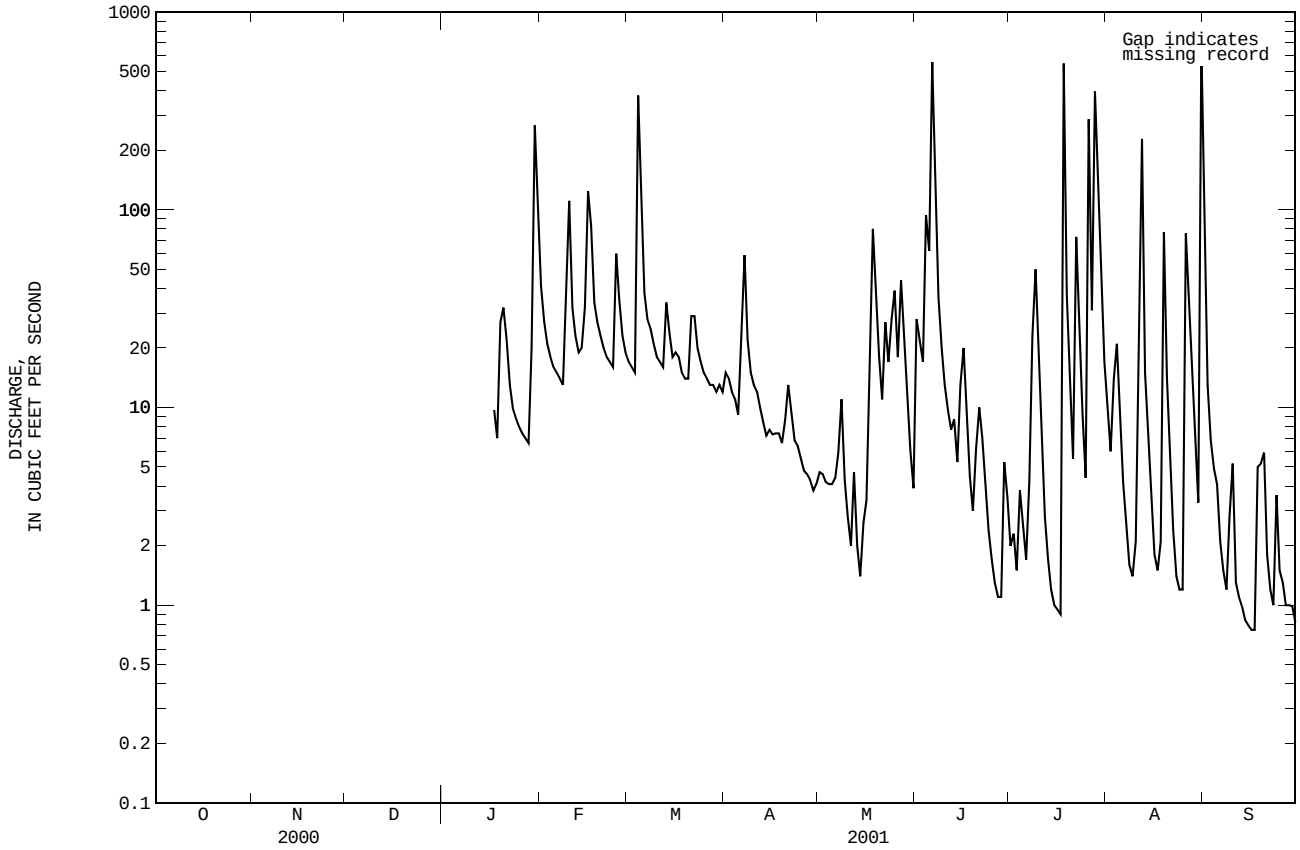
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2001, BY WATER YEAR (WY)

MEAN	---	---	---	---	33.5	34.1	11.2	14.8	37.5	55.3	42.4	4.01
MAX	---	---	---	---	33.5	34.1	11.2	14.8	37.5	55.3	42.4	4.01
(WY)	---	---	---	---	2001	2001	2001	2001	2001	2001	2001	2001
MIN	---	---	---	---	33.5	34.1	11.2	14.8	37.5	55.3	42.4	4.01
(WY)	---	---	---	---	2001	2001	2001	2001	2001	2001	2001	2001

03238745 TWELVEMILE CREEK AT HIGHWAY 1997 NEAR ALEXANDRIA, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR	
HIGHEST DAILY MEAN			700	Aug 31
LOWEST DAILY MEAN			.75	Sep 16
ANNUAL SEVEN-DAY MINIMUM	167	Jan 17	.93	Sep 11
MAXIMUM PEAK FLOW			3040	Jul 18
MAXIMUM PEAK STAGE			6.96	Jul 18
10 PERCENT EXCEEDS			45	
50 PERCENT EXCEEDS			11	
90 PERCENT EXCEEDS			1.4	

e Estimated



03238745 TWELVEMILE CREEK AT HIGHWAY 1997 NEAR ALEXANDRIA, KY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 2000 to September 2001.

COOPERATION.--Northern Kentucky Sanitation District No. 1.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 2000 to September 2001.
pH: December 2000 to September 2001.
WATER TEMPERATURES: December 2000 to September 2001.
DISSOLVED OXYGEN: December 2000 to September 2001.
TURBIDITY: December 2000 to September 2001.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 958 microsiemens, Jan. 29, 2001; minimum, 137 microsiemens, August 12, 2001.
pH.--Maximum, 9.1 units, May 13, 2001; minimum, 6.6 units, Dec. 25-26, 2000.
WATER TEMPERATURE: Maximum, 31.2°C, Aug. 8, 2001; minimum, 0.0°C, several days in Dec. 2000 and Jan. and Feb. 7, 2001.
DISSOLVED OXYGEN: Maximum, 18.2 mg/L, May 11, 2001; minimum 0.3 mg/L, May 16, 2001.
TURBIDITY: Maximum, >1000 NTU, many days in 2001; minimum, 4.0 NTU, Jan. 29, 2001.
REMARKS.--There were several periods of missing data because of equipment failure. Records are rated fair.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	727	720	727
2	---	---	---	---	---	---	657	657	657	739	727	739
3	---	---	---	---	---	---	665	657	665	756	739	756
4	---	---	---	---	---	---	673	665	673	756	750	750
5	---	---	---	---	---	---	677	673	677	750	737	737
6	---	---	---	---	---	---	684	677	684	737	729	729
7	---	---	---	---	---	---	687	684	687	732	729	732
8	---	---	---	---	---	---	697	687	697	732	730	730
9	---	---	---	---	---	---	709	697	709	743	730	743
10	---	---	---	---	---	---	709	698	698	758	743	758
11	---	---	---	---	---	---	698	615	617	773	758	773
12	---	---	---	---	---	---	---	---	---	788	773	788
13	---	---	---	---	---	---	---	---	---	788	762	763
14	---	---	---	---	---	---	---	---	---	762	757	757
15	---	---	---	---	---	---	---	---	---	757	733	734
16	---	---	---	---	---	---	---	---	---	733	702	703
17	---	---	---	---	---	---	---	---	---	714	697	704
18	---	---	---	---	---	---	---	---	---	718	703	713
19	---	---	---	---	---	---	380	293	378	813	625	721
20	---	---	---	---	---	---	470	380	468	707	610	656
21	---	---	---	---	---	---	470	393	395	774	706	735
22	---	---	---	---	---	---	550	393	547	772	720	746
23	---	---	---	---	---	---	595	550	594	788	733	758
24	---	---	---	---	---	---	618	595	618	769	710	738
25	---	---	---	---	---	---	640	618	640	753	709	730
26	---	---	---	---	---	---	674	640	673	764	729	746
27	---	---	---	---	---	---	674	669	669	793	731	750
28	---	---	---	---	---	---	683	669	683	827	758	792
29	---	---	---	---	---	---	697	683	697	958	608	774
30	---	---	---	---	---	---	701	697	701	608	329	392
31	---	---	---	---	---	---	720	701	720	427	357	392
MONTH	---	---	---	---	---	---	---	---	---	958	329	718

03238745 TWELVEMILE CREEK AT HIGHWAY 1997 NEAR ALEXANDRIA, KY--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	475	427	451	584	552	564	729	628	651	744	664	702
2	513	475	493	600	569	584	658	601	639	733	698	721
3	570	513	536	614	579	597	663	627	650	742	711	728
4	583	554	564	681	208	470	679	629	658	748	713	732
5	596	578	584	354	218	291	685	633	665	748	705	731
6	613	595	601	444	354	399	697	532	655	752	710	736
7	623	604	612	504	444	475	537	489	515	751	716	736
8	640	612	626	544	504	521	526	494	504	738	650	705
9	831	461	636	572	544	555	536	504	515	711	659	689
10	499	415	438	597	572	580	574	536	550	744	692	716
11	475	419	439	608	594	598	597	566	579	753	709	735
12	509	475	487	639	604	612	622	589	606	760	718	739
13	548	509	522	624	579	600	639	605	624	763	713	744
14	588	548	563	615	591	605	654	623	641	781	734	753
15	617	587	598	621	600	612	671	649	662	781	735	763
16	657	426	582	638	595	610	674	636	656	776	750	764
17	426	362	380	615	599	607	671	647	657	---	---	---
18	465	397	427	619	586	606	674	652	661	---	---	---
19	518	465	486	630	602	617	680	653	667	526	345	464
20	554	518	531	639	604	623	707	675	687	568	526	549
21	582	553	561	687	613	634	692	652	672	588	568	576
22	605	582	589	624	586	603	698	665	685	587	501	552
23	625	597	610	633	598	618	708	671	693	536	520	530
24	642	607	623	634	583	611	708	673	695	549	401	505
25	741	542	603	621	573	599	716	682	700	493	398	469
26	574	532	545	617	574	596	721	695	711	522	391	487
27	540	515	527	616	572	595	731	706	721	549	419	498
28	564	533	544	616	574	595	738	713	727	569	445	541
29	---	---	---	627	586	608	744	713	730	585	467	566
30	---	---	---	633	597	618	746	714	733	614	496	599
31	---	---	---	641	599	625	---	---	---	637	571	626
MONTH	831	362	541	687	208	575	746	489	650	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	634	373	511	639	614	630	---	---	---	440	284	374
2	576	457	555	661	634	655	---	---	---	482	440	457
3	580	434	555	659	640	652	552	491	524	536	482	512
4	587	310	470	682	638	652	518	488	503	572	536	560
5	476	200	426	688	628	654	533	500	514	609	571	597
6	302	183	249	659	644	652	550	522	538	601	577	592
7	364	194	296	672	595	648	564	543	553	620	596	605
8	444	364	409	671	367	570	573	555	564	633	617	626
9	497	444	471	506	430	454	590	569	580	---	---	---
10	530	497	514	504	468	480	589	545	576	619	552	581
11	555	530	545	537	504	523	577	188	543	608	551	572
12	579	553	568	571	537	560	447	137	335	643	608	624
13	600	568	583	608	568	590	500	447	479	667	643	655
14	611	578	598	636	600	613	524	500	509	700	667	687
15	---	---	---	676	632	649	559	524	541	716	695	702
16	501	480	494	721	661	680	585	559	569	744	712	728
17	502	456	476	742	706	720	610	585	602	768	740	752
18	515	478	488	738	123	274	614	456	598	765	631	729
19	560	515	546	391	317	363	509	273	363	631	512	570
20	624	519	574	457	391	420	485	396	450	604	582	593
21	581	521	549	496	455	467	512	485	497	634	583	608
22	610	581	597	524	223	404	560	512	534	666	634	649
23	621	603	611	399	275	359	600	560	582	698	666	688
24	629	614	622	477	399	442	621	600	610	729	671	707
25	637	619	632	514	366	496	634	606	625	693	659	668
26	658	633	644	499	195	266	---	---	---	665	646	654
27	683	647	665	378	309	344	---	---	---	701	654	682
28	698	597	678	398	178	294	---	---	---	742	700	721
29	661	587	620	364	268	323	---	---	---	740	696	712
30	614	590	601	433	364	406	574	520	549	761	720	744
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	742	123	508	---	---	---	---	---	---
YEAR	958	123	598									

03238745 TWELVEMILE CREEK AT HIGHWAY 1997 NEAR ALEXANDRIA, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	7.9	7.9	7.9
2	---	---	---	---	---	---	8.3	8.1	8.1	8.0	7.9	8.0
3	---	---	---	---	---	---	8.3	8.1	8.3	8.0	7.9	7.9
4	---	---	---	---	---	---	8.3	8.2	8.2	7.9	7.9	7.9
5	---	---	---	---	---	---	8.2	8.2	8.2	8.0	7.9	8.0
6	---	---	---	---	---	---	8.4	8.2	8.4	8.0	8.0	8.0
7	---	---	---	---	---	---	8.4	8.3	8.3	8.0	8.0	8.0
8	---	---	---	---	---	---	8.3	8.3	8.3	8.0	7.8	7.8
9	---	---	---	---	---	---	8.4	8.3	8.4	8.1	7.8	8.1
10	---	---	---	---	---	---	8.4	8.4	8.4	8.1	8.1	8.1
11	---	---	---	---	---	---	8.4	8.1	8.1	8.1	8.1	8.1
12	---	---	---	---	---	---	---	---	---	8.1	8.1	8.1
13	---	---	---	---	---	---	---	---	---	8.1	7.8	7.8
14	---	---	---	---	---	---	---	---	---	8.1	7.8	8.1
15	---	---	---	---	---	---	---	---	---	8.1	8.1	8.1
16	---	---	---	---	---	---	---	---	---	8.1	8.1	8.1
17	---	---	---	---	---	---	7.6	7.3	7.6	8.3	8.1	8.2
18	---	---	---	---	---	---	7.6	7.6	7.6	8.4	8.1	8.3
19	---	---	---	---	---	---	7.7	7.6	7.7	8.3	8.1	8.1
20	---	---	---	---	---	---	7.7	7.7	7.7	8.2	8.0	8.1
21	---	---	---	---	---	---	7.8	7.7	7.8	8.4	8.0	8.1
22	---	---	---	---	---	---	7.8	7.8	7.8	8.3	7.9	8.1
23	---	---	---	---	---	---	7.8	7.8	7.8	8.3	7.8	8.0
24	---	---	---	---	---	---	7.8	7.8	7.8	8.3	7.5	8.1
25	---	---	---	---	---	---	7.8	6.6	6.6	8.3	7.9	8.1
26	---	---	---	---	---	---	7.8	6.6	7.8	8.1	7.8	7.9
27	---	---	---	---	---	---	7.8	7.8	7.8	8.3	7.8	8.0
28	---	---	---	---	---	---	7.9	7.8	7.9	8.2	7.8	8.0
29	---	---	---	---	---	---	7.9	7.9	7.9	8.5	7.7	8.0
30	---	---	---	---	---	---	7.9	7.9	7.9	8.0	7.8	7.9
31	---	---	---	---	---	---	7.9	7.9	7.9	8.0	7.9	7.9
MONTH	---	---	---	---	---	---	---	---	---	8.5	7.5	8.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.2	7.9	8.0	8.8	8.0	8.3	8.9	7.9	8.3	8.8	7.5	8.2
2	8.5	8.0	8.2	8.9	8.0	8.4	8.8	7.9	8.4	8.8	7.5	8.2
3	8.5	8.0	8.2	8.8	8.0	8.4	8.8	7.9	8.3	8.7	7.5	8.2
4	8.6	8.0	8.3	8.2	7.7	7.9	8.9	7.9	8.4	8.8	7.5	8.2
5	8.4	8.1	8.2	7.9	7.7	7.8	8.8	7.9	8.3	9.0	7.6	8.3
6	8.6	8.0	8.3	8.0	7.8	7.9	8.6	7.7	8.1	9.0	7.6	8.3
7	8.7	8.0	8.3	8.2	7.9	8.0	8.2	7.8	8.0	8.9	7.6	8.2
8	8.7	8.0	8.3	8.3	7.9	8.1	8.4	7.8	8.0	8.9	7.5	8.1
9	8.7	7.9	8.2	8.3	8.0	8.1	8.6	7.7	8.1	8.9	7.5	8.1
10	8.0	7.9	7.9	8.4	8.0	8.2	8.5	7.7	8.0	8.9	7.6	8.2
11	8.4	7.9	8.0	8.4	8.0	8.2	8.3	7.7	8.0	9.0	7.5	8.1
12	8.5	7.9	8.1	8.3	7.9	8.1	8.5	7.5	7.9	9.0	7.5	8.1
13	8.5	7.9	8.1	8.2	7.9	8.1	8.4	7.5	8.0	9.1	7.4	8.2
14	8.5	7.9	8.1	8.5	8.0	8.2	8.5	7.5	8.0	9.0	7.5	8.2
15	8.3	8.0	8.1	8.6	7.9	8.2	8.1	7.5	7.8	8.9	7.5	8.1
16	8.2	8.0	8.1	8.6	8.1	8.3	8.5	7.6	8.0	8.4	7.2	7.7
17	8.1	7.9	8.0	8.5	8.1	8.3	8.3	7.7	8.0	---	---	---
18	8.3	7.9	8.1	8.8	8.1	8.4	8.6	7.8	8.2	---	---	---
19	8.5	8.0	8.2	8.9	8.1	8.4	8.6	7.8	8.2	7.6	7.5	7.5
20	8.6	8.0	8.2	8.8	8.1	8.4	8.3	7.7	7.9	7.9	7.5	7.7
21	8.6	7.9	8.2	8.6	8.1	8.3	8.5	7.7	8.0	7.9	7.5	7.6
22	8.5	8.0	8.2	8.6	8.0	8.3	8.5	7.6	8.0	8.0	7.5	7.6
23	8.7	8.0	8.3	8.8	8.0	8.3	8.5	7.5	8.0	7.9	7.5	7.7
24	8.8	8.0	8.3	8.9	8.0	8.3	8.5	7.5	8.0	7.8	7.5	7.7
25	8.2	7.9	8.0	8.9	8.0	8.4	8.6	7.7	8.2	7.8	7.6	7.7
26	8.5	7.9	8.1	8.8	8.0	8.4	8.6	7.7	8.2	7.9	7.6	7.7
27	8.7	7.9	8.2	8.9	8.0	8.4	8.6	7.6	8.1	7.9	7.7	7.8
28	8.8	8.0	8.3	8.9	7.7	8.4	8.7	7.6	8.2	8.1	7.7	7.9
29	---	---	---	8.8	8.0	8.4	8.7	7.6	8.2	8.1	7.7	7.9
30	---	---	---	8.8	8.0	8.4	8.8	7.6	8.3	8.2	7.7	7.9
31	---	---	---	8.9	7.9	8.4	---	---	---	8.2	7.7	7.9
MONTH	8.8	7.9	8.2	8.9	7.7	8.2	8.9	7.5	8.1	---	---	---

03238745 TWELVEMILE CREEK AT HIGHWAY 1997 NEAR ALEXANDRIA, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.9	7.6	7.8	8.4	7.7	8.0	---	---	---	7.7	7.4	7.6
2	8.1	7.8	7.9	8.4	7.7	8.0	---	---	---	7.9	7.6	7.7
3	8.2	7.8	8.0	8.5	7.8	8.1	8.0	7.6	7.8	8.0	7.7	7.8
4	7.9	7.5	7.7	8.3	7.8	7.9	8.1	7.6	7.8	8.1	7.7	7.9
5	7.8	7.5	7.7	8.4	7.7	8.0	8.2	7.7	7.9	8.1	7.7	7.9
6	7.6	7.4	7.5	8.4	7.9	8.1	8.3	7.7	8.0	8.2	7.7	7.9
7	7.7	7.4	7.6	8.1	7.7	7.9	8.4	7.7	8.0	8.3	7.7	7.9
8	7.9	7.7	7.8	8.0	7.4	7.8	8.6	7.8	8.1	8.4	7.7	8.0
9	8.0	7.7	7.8	7.8	7.6	7.7	8.4	7.8	8.0	8.2	7.7	7.9
10	8.0	7.8	7.9	8.0	7.6	7.8	8.4	7.7	8.0	---	---	---
11	8.1	7.8	7.9	8.3	7.6	8.0	8.4	7.6	8.1	---	---	---
12	8.2	7.8	8.0	8.5	7.8	8.1	7.8	7.5	7.7	8.4	7.9	8.1
13	8.3	7.8	8.0	8.6	7.9	8.2	8.1	7.7	7.9	8.5	7.9	8.1
14	8.3	7.8	8.1	8.7	7.9	8.3	8.3	7.7	8.0	8.4	7.8	8.1
15	8.4	7.8	8.0	8.7	7.9	8.3	8.4	7.8	8.1	8.5	7.9	8.1
16	8.4	7.8	8.0	8.8	7.9	8.3	8.4	7.8	8.1	8.6	7.9	8.2
17	8.3	7.8	8.0	8.8	7.8	8.2	8.5	7.8	8.1	8.6	7.9	8.2
18	8.4	7.8	8.0	8.0	7.6	7.7	8.4	7.8	8.1	8.0	7.7	7.8
19	8.4	7.8	8.1	7.8	7.6	7.7	7.9	7.6	7.8	7.7	7.5	7.6
20	8.2	7.8	7.9	8.0	7.7	7.8	8.2	7.7	7.9	8.1	7.7	7.9
21	8.2	7.8	8.0	8.2	7.7	7.9	8.3	7.9	8.1	8.2	7.8	7.9
22	8.2	7.8	8.0	8.1	7.7	7.9	8.3	7.8	7.9	8.3	7.7	8.0
23	8.2	7.9	8.0	8.1	7.7	7.9	8.2	7.8	8.0	8.3	7.7	7.9
24	8.3	7.9	8.1	8.3	7.9	8.1	8.4	7.7	8.0	7.8	7.6	7.7
25	8.4	7.8	8.1	8.5	7.7	8.2	---	---	---	8.1	7.7	7.9
26	8.4	7.7	8.0	8.0	7.3	7.6	---	---	---	8.3	7.8	8.0
27	8.5	7.7	8.0	7.6	7.4	7.5	---	---	---	8.3	7.9	8.0
28	8.5	7.6	8.0	7.5	7.3	7.4	---	---	---	8.3	7.3	7.9
29	8.2	7.6	7.9	7.5	7.3	7.4	---	---	---	8.3	7.8	8.0
30	8.2	7.7	8.0	7.7	7.4	7.6	8.0	7.6	7.8	8.4	7.8	8.0
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	8.5	7.4	7.9	---	---	---	---	---	---	---	---	---
YEAR	9.1	6.6	8.0									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	.6	.6	.6
2	---	---	---	---	---	---	3.7	2.3	2.3	.6	.5	.5
3	---	---	---	---	---	---	2.3	.5	.5	.5	.5	.5
4	---	---	---	---	---	---	.5	.1	.1	.6	.5	.6
5	---	---	---	---	---	---	.4	.1	.4	.6	.0	.0
6	---	---	---	---	---	---	.4	.0	.0	.0	.0	.0
7	---	---	---	---	---	---	.1	.0	.1	.0	.0	.0
8	---	---	---	---	---	---	.5	.1	.5	.0	.0	.0
9	---	---	---	---	---	---	.5	.1	.1	.0	.0	.0
10	---	---	---	---	---	---	.3	.1	.3	.0	.0	.0
11	---	---	---	---	---	---	2.2	.3	2.2	.0	.0	.0
12	---	---	---	---	---	---	2.2	.0	.0	.0	.0	.0
13	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
14	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
15	---	---	---	---	---	---	2.5	.0	1.2	.0	.0	.0
16	---	---	---	---	---	---	2.5	2.5	2.5	.3	.0	.3
17	---	---	---	---	---	---	2.5	1.5	1.5	1.3	.3	.8
18	---	---	---	---	---	---	1.5	.0	.0	2.4	.7	1.5
19	---	---	---	---	---	---	.0	.0	.0	2.0	.1	1.1
20	---	---	---	---	---	---	.0	.0	.0	.6	.0	.4
21	---	---	---	---	---	---	.0	.0	.0	.6	.0	.5
22	---	---	---	---	---	---	.0	.0	.0	.6	.0	.4
23	---	---	---	---	---	---	.0	.0	.0	.6	.0	.4
24	---	---	---	---	---	---	.0	.0	.0	.8	.1	.4
25	---	---	---	---	---	---	.0	.0	.0	.7	.1	.5
26	---	---	---	---	---	---	.0	.0	.0	.6	.5	.6
27	---	---	---	---	---	---	.6	.0	.6	.8	.1	.5
28	---	---	---	---	---	---	.6	.5	.5	.6	.1	.3
29	---	---	---	---	---	---	.6	.5	.6	1.5	.1	.7
30	---	---	---	---	---	---	.6	.6	.6	1.0	.3	.7
31	---	---	---	---	---	---	.6	.6	.6	2.5	1.0	1.8
MONTH	---	---	---	---	---	---	---	---	---	2.5	.0	.4

03238745 TWELVEMILE CREEK AT HIGHWAY 1997 NEAR ALEXANDRIA, KY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.9	2.4	2.8	7.1	2.5	4.6	---	---	---	23.5	17.2	20.4
2	3.0	.1	1.8	8.1	4.8	6.2	---	---	---	25.1	18.3	21.5
3	2.0	.1	.9	9.5	5.9	7.5	14.9	10.0	12.0	24.7	18.8	21.7
4	3.0	.6	1.6	7.7	5.3	6.3	16.1	8.8	12.5	26.4	19.7	22.6
5	2.1	.9	1.5	5.3	3.3	4.7	17.5	9.3	13.6	26.3	19.1	22.6
6	3.1	1.1	1.9	4.6	2.3	3.3	18.0	14.9	16.1	26.6	19.7	22.9
7	3.7	.0	1.8	6.4	2.8	4.0	19.8	13.8	16.5	25.8	21.2	23.1
8	6.9	1.1	3.9	7.7	2.0	4.4	---	---	---	24.1	19.3	21.3
9	10.1	5.4	7.2	5.9	2.5	4.1	23.8	16.9	20.0	24.2	17.5	20.4
10	7.3	4.3	6.2	8.6	1.6	4.5	21.5	18.6	20.0	25.4	17.5	21.2
11	4.8	2.2	3.4	10.7	3.3	6.4	23.8	18.2	20.9	26.3	18.3	21.9
12	4.8	2.0	3.4	7.4	4.7	6.3	24.2	19.2	21.6	23.9	18.6	21.3
13	5.8	4.2	4.9	9.3	6.3	7.7	23.1	17.3	20.3	22.3	15.4	18.6
14	7.8	5.4	6.6	12.5	6.3	8.7	21.3	14.6	18.5	22.2	14.4	18.3
15	7.8	6.7	7.1	9.9	7.3	8.3	20.3	15.3	17.3	23.8	16.9	20.2
16	7.1	5.9	6.8	10.0	8.1	8.9	17.8	12.2	15.0	22.9	19.9	21.4
17	5.9	2.6	4.4	8.5	6.0	7.3	14.8	10.0	11.2	---	---	---
18	4.4	1.1	2.4	11.3	4.2	7.2	14.6	7.7	11.2	---	---	---
19	5.9	1.0	2.9	10.6	4.0	7.2	16.1	8.6	12.8	20.2	18.3	19.0
20	5.9	2.8	4.2	8.5	6.1	7.3	15.1	12.0	13.3	23.7	17.4	20.2
21	6.3	2.9	4.3	9.3	6.5	7.7	19.7	13.3	16.2	22.0	19.8	20.9
22	3.2	2.1	2.6	11.9	6.1	8.5	22.3	16.5	19.3	21.5	18.0	19.7
23	6.4	2.1	3.9	13.3	6.1	9.2	23.4	17.3	20.5	18.0	16.1	16.8
24	8.1	3.2	5.5	12.8	7.5	9.7	21.5	16.6	18.8	17.4	14.2	16.0
25	9.7	8.1	8.7	10.5	5.1	7.3	18.8	12.2	15.8	17.4	15.0	16.0
26	10.2	6.5	8.0	7.0	3.2	5.1	19.3	12.3	16.0	19.1	14.5	16.8
27	8.5	5.8	7.0	8.8	2.8	5.5	20.8	13.7	17.3	17.2	14.7	16.0
28	8.6	4.4	6.2	10.5	2.2	6.4	21.4	15.6	18.4	20.6	14.2	17.1
29	---	---	---	9.6	6.0	7.8	21.0	13.3	17.1	21.5	15.2	18.4
30	---	---	---	11.4	5.7	8.7	22.6	14.3	18.5	21.2	17.3	19.5
31	---	---	---	12.6	8.0	10.4	---	---	---	19.3	16.1	17.1
MONTH	10.2	.0	4.4	13.3	1.6	6.8	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.5	15.8	16.8	29.4	24.3	26.2	---	---	---	23.8	21.0	22.1
2	17.9	14.4	15.9	27.8	21.5	24.2	---	---	---	24.1	19.2	21.5
3	18.4	14.7	16.6	26.2	20.3	23.0	28.1	25.2	26.2	23.1	19.7	21.5
4	17.4	15.8	16.2	24.9	21.6	22.8	28.5	24.3	26.0	24.2	21.3	22.8
5	19.5	15.5	17.0	28.0	21.8	24.2	28.1	22.8	25.6	24.6	21.1	23.0
6	20.3	17.3	18.5	27.9	20.3	23.7	28.6	24.2	26.7	23.9	19.5	22.1
7	19.6	18.6	19.0	22.8	20.9	21.8	30.0	26.1	28.0	25.7	21.7	23.6
8	22.3	18.1	19.8	25.0	21.7	23.0	31.2	26.4	28.6	27.3	23.1	24.8
9	23.7	17.3	20.2	25.6	21.3	23.2	30.5	26.8	28.2	25.8	22.6	24.2
10	24.0	17.5	20.8	28.7	22.4	25.3	28.9	26.5	27.3	---	---	---
11	25.0	19.0	22.1	28.2	23.5	26.1	28.1	23.6	26.6	---	---	---
12	26.8	21.8	24.4	26.4	22.1	23.8	27.3	23.2	24.8	22.5	17.6	20.0
13	27.4	22.5	25.3	28.2	20.4	23.7	27.0	22.3	24.7	23.3	18.3	20.6
14	28.4	23.4	26.3	29.2	20.4	24.1	26.3	22.6	24.6	22.4	17.8	19.6
15	---	---	---	29.0	20.5	24.4	25.4	21.3	23.5	21.4	15.4	17.8
16	27.6	22.5	24.8	27.9	21.3	24.5	25.1	22.5	23.8	20.4	14.6	17.3
17	26.9	21.6	24.4	28.4	22.8	25.3	26.1	21.3	23.6	20.6	14.9	17.6
18	27.1	21.2	24.3	25.8	22.0	22.8	25.1	21.6	23.2	19.0	17.5	18.2
19	28.7	21.9	25.3	26.5	22.7	24.3	23.5	20.4	21.7	18.9	18.3	18.6
20	27.0	23.7	25.0	28.9	23.5	26.0	23.8	20.2	21.7	19.8	16.8	18.4
21	25.5	21.8	23.3	28.3	24.5	26.7	23.8	19.1	21.7	19.9	17.0	18.4
22	23.6	20.7	21.9	27.6	24.7	25.9	23.5	20.7	22.1	21.6	17.3	18.9
23	21.8	19.1	20.5	29.2	24.2	26.3	24.7	21.9	23.1	22.1	16.9	19.1
24	25.6	18.4	21.7	29.0	25.1	27.1	27.0	22.1	24.2	19.7	15.8	18.1
25	27.6	20.0	23.4	30.3	26.5	28.3	---	---	---	15.8	13.7	14.6
26	28.0	21.0	24.2	27.8	23.5	24.2	---	---	---	15.1	12.1	13.5
27	29.2	21.8	25.1	26.5	22.1	24.0	---	---	---	16.8	11.9	13.8
28	29.3	22.3	25.5	24.0	22.0	22.7	---	---	---	15.7	11.6	13.5
29	27.5	22.9	25.3	24.1	22.4	23.1	---	---	---	16.7	11.6	13.7
30	28.4	23.8	26.1	27.0	22.4	24.3	26.2	22.7	24.5	18.1	11.5	14.0
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	31.2	.0	13.5									

03238745 TWELVEMILE CREEK AT HIGHWAY 1997 NEAR ALEXANDRIA, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	13.9	13.7	13.9
2	---	---	---	---	---	---	11.8	10.6	10.6	14.0	13.9	14.0
3	---	---	---	---	---	---	11.7	10.6	11.7	14.0	13.9	13.9
4	---	---	---	---	---	---	12.5	11.7	12.5	13.9	13.7	13.7
5	---	---	---	---	---	---	12.5	12.3	12.3	13.7	13.6	13.6
6	---	---	---	---	---	---	12.8	12.3	12.8	13.6	13.6	13.6
7	---	---	---	---	---	---	12.8	12.7	12.7	13.7	13.6	13.7
8	---	---	---	---	---	---	12.7	11.8	11.8	13.7	13.6	13.6
9	---	---	---	---	---	---	12.6	11.8	12.6	13.9	13.6	13.9
10	---	---	---	---	---	---	12.6	12.6	12.6	13.9	12.1	12.1
11	---	---	---	---	---	---	---	---	---	12.1	11.5	11.5
12	---	---	---	---	---	---	---	---	---	11.5	11.4	11.4
13	---	---	---	---	---	---	---	---	---	11.6	11.4	11.6
14	---	---	---	---	---	---	---	---	---	11.6	11.5	11.5
15	---	---	---	---	---	---	---	---	---	11.5	11.2	11.2
16	---	---	---	---	---	---	---	---	---	12.1	11.2	12.1
17	---	---	---	---	---	---	11.0	10.7	11.0	13.6	12.1	12.7
18	---	---	---	---	---	---	13.1	11.0	13.1	13.6	11.6	12.4
19	---	---	---	---	---	---	13.7	13.1	13.7	13.1	11.4	12.1
20	---	---	---	---	---	---	14.2	13.7	14.2	15.1	12.1	13.9
21	---	---	---	---	---	---	14.2	14.1	14.1	15.9	14.1	14.8
22	---	---	---	---	---	---	14.2	14.1	14.2	16.6	14.0	14.9
23	---	---	---	---	---	---	14.2	14.2	14.2	17.1	13.7	15.0
24	---	---	---	---	---	---	14.2	14.1	14.1	16.9	13.4	14.7
25	---	---	---	---	---	---	14.4	14.1	14.4	16.8	13.3	14.6
26	---	---	---	---	---	---	14.4	14.2	14.2	16.1	13.4	14.5
27	---	---	---	---	---	---	14.2	13.9	13.9	17.4	12.9	14.7
28	---	---	---	---	---	---	14.0	13.9	14.0	18.1	13.2	15.1
29	---	---	---	---	---	---	14.0	13.8	13.8	17.2	12.4	14.6
30	---	---	---	---	---	---	13.8	13.7	13.7	14.9	13.3	13.9
31	---	---	---	---	---	---	13.7	13.7	13.7	13.5	9.4	10.9
MONTH	---	---	---	---	---	---	---	---	---	18.1	9.4	13.4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.1	9.5	9.9	17.2	11.3	13.5	14.5	7.1	9.9	13.8	1.9	7.3
2	12.7	9.7	10.9	17.1	10.7	13.0	15.4	7.6	10.9	14.5	1.6	7.1
3	14.1	11.0	12.1	17.8	10.4	13.1	15.0	7.2	9.8	13.9	1.6	7.1
4	14.2	10.5	11.9	11.9	10.1	11.2	15.0	6.9	10.3	13.8	1.2	6.7
5	13.4	10.6	11.6	12.3	11.7	12.0	14.5	5.9	9.7	14.9	1.0	6.9
6	15.2	10.7	12.3	13.3	12.3	12.8	11.8	5.3	7.6	15.0	.5	6.8
7	16.8	11.1	13.2	13.7	12.4	12.9	7.9	6.1	7.3	15.8	.5	6.4
8	16.9	9.8	12.8	14.0	12.0	12.9	---	---	---	14.5	2.2	6.9
9	15.4	8.6	10.9	14.2	12.1	13.1	9.8	5.7	7.2	15.7	1.3	7.1
10	10.0	8.8	9.5	14.7	12.0	13.2	9.5	5.6	7.4	16.2	1.2	7.5
11	13.2	9.8	11.4	14.6	11.3	12.9	15.0	6.4	9.8	18.2	.6	7.2
12	14.0	10.4	11.7	14.1	11.1	12.3	15.6	6.8	10.4	16.4	.6	6.8
13	13.9	10.1	11.5	13.4	11.0	11.9	16.3	6.6	10.5	17.1	.6	7.4
14	13.2	9.6	11.0	14.5	10.5	12.2	16.3	6.7	10.6	17.7	1.4	7.4
15	12.0	9.5	10.5	14.8	9.7	11.7	13.3	6.1	8.7	17.5	.7	7.5
16	11.2	10.0	10.5	13.4	9.5	11.0	16.6	7.7	11.3	11.2	.3	4.1
17	11.8	10.7	11.3	13.9	9.6	11.3	15.5	7.7	11.2	---	---	---
18	13.7	11.8	12.6	16.5	10.3	12.8	17.6	9.4	12.8	---	---	---
19	14.4	11.6	12.8	16.8	9.9	12.7	17.4	8.2	12.1	6.3	5.5	5.9
20	14.6	11.1	12.5	16.1	9.7	12.1	12.8	6.5	8.7	8.2	4.3	6.3
21	16.0	11.1	13.0	14.7	9.8	11.3	13.8	5.5	9.1	7.5	4.1	5.4
22	15.9	11.7	13.2	15.4	9.6	11.9	13.2	4.3	8.1	7.3	4.5	5.9
23	17.3	11.8	13.8	16.5	8.8	12.1	13.4	3.8	7.8	8.3	5.5	6.5
24	17.9	10.3	13.5	16.8	8.6	11.4	14.2	3.3	7.9	7.4	5.9	6.6
25	11.4	9.7	10.4	16.7	8.9	12.2	15.5	4.9	9.5	7.5	6.4	6.8
26	13.6	10.1	11.3	17.4	9.7	12.9	15.5	4.7	9.5	8.4	5.8	6.9
27	14.5	10.1	11.8	17.6	10.0	13.1	15.0	3.9	8.5	7.1	5.9	6.5
28	16.6	10.7	12.9	17.6	9.2	12.9	15.2	2.9	8.5	8.0	5.5	6.8
29	---	---	---	16.5	8.9	11.7	16.0	3.4	8.9	8.6	5.2	6.7
30	---	---	---	16.3	8.1	11.4	15.4	3.0	8.4	8.8	5.0	6.7
31	---	---	---	15.9	7.3	10.9	---	---	---	9.4	5.1	6.9
MONTH	17.9	8.6	11.8	17.8	7.3	12.3	---	---	---	---	---	---

03238745 TWELVEMILE CREEK AT HIGHWAY 1997 NEAR ALEXANDRIA, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.1	6.1	6.7	10.8	4.3	6.5	---	---	---	7.4	6.3	6.7
2	8.1	6.4	7.0	10.4	4.9	7.2	---	---	---	8.1	6.0	6.9
3	9.1	6.4	7.5	11.2	5.4	7.3	10.6	7.5	8.6	8.6	5.9	6.9
4	7.6	6.2	7.0	9.7	5.1	6.5	11.2	7.5	8.8	8.7	5.5	6.5
5	7.4	5.9	7.1	10.4	5.2	7.1	11.8	7.1	9.1	8.9	5.4	6.7
6	7.1	5.1	6.1	11.4	5.5	7.7	12.4	6.7	8.9	9.2	5.3	6.8
7	7.3	4.9	6.2	9.1	5.7	6.9	11.9	5.9	8.2	9.7	4.7	6.6
8	7.4	6.5	7.0	8.4	5.7	6.8	11.3	5.4	7.8	9.9	4.2	6.1
9	7.7	5.9	6.8	7.4	6.1	6.7	---	---	---	---	---	---
10	7.8	5.3	6.6	7.8	5.2	6.5	9.5	4.8	6.5	---	---	---
11	8.1	5.2	6.4	9.8	5.2	7.3	9.4	4.8	6.7	---	---	---
12	8.2	5.0	6.3	13.1	6.2	8.3	8.3	5.3	6.6	10.9	5.6	7.5
13	8.4	4.8	6.3	13.4	6.8	9.3	7.6	4.7	6.0	11.1	5.6	7.6
14	8.8	4.6	6.4	14.1	6.7	9.7	9.2	4.5	6.3	11.5	5.4	7.7
15	---	---	---	14.1	6.7	9.5	9.9	4.6	6.7	12.7	6.1	8.5
16	7.8	5.0	6.1	14.2	6.4	9.2	9.6	4.1	6.2	13.3	6.3	9.0
17	9.8	5.0	7.3	14.2	5.8	8.8	10.2	4.3	6.7	13.1	6.6	9.0
18	10.2	5.8	7.5	9.1	5.9	7.5	9.7	4.0	5.9	8.5	6.0	6.8
19	10.9	5.5	7.5	6.8	5.7	6.4	5.8	4.9	5.3	6.4	5.5	6.0
20	9.6	5.1	6.5	6.6	5.2	5.9	7.6	4.9	5.9	8.5	5.9	6.9
21	9.3	5.4	6.6	7.1	5.1	5.9	8.0	4.6	6.0	9.1	5.5	6.9
22	8.6	5.2	6.6	6.6	4.9	5.6	8.3	4.3	5.6	10.2	5.4	7.1
23	9.3	5.8	7.3	8.4	5.8	7.5	8.0	4.1	5.6	10.6	5.5	7.1
24	10.6	6.0	7.8	8.7	6.4	7.4	8.5	4.0	5.8	7.6	5.4	6.4
25	---	---	---	10.2	6.2	7.7	---	---	---	9.8	6.5	7.9
26	11.2	5.0	7.4	8.0	6.9	7.3	---	---	---	11.1	7.3	8.9
27	11.1	4.9	7.3	7.3	6.5	7.0	---	---	---	11.5	7.3	8.7
28	10.9	4.8	6.9	9.0	6.4	7.3	---	---	---	11.7	7.3	9.0
29	8.9	4.8	6.3	7.2	6.5	6.9	---	---	---	12.4	7.4	9.0
30	9.4	4.6	6.5	7.0	6.1	6.6	9.1	5.6	6.9	13.7	7.4	9.2
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	18.2	.3	9.6									

TURBIDITY (NTU), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	21	20	20
2	---	---	---	---	---	---	13	7.2	7.3	20	20	20
3	---	---	---	---	---	---	11	7.2	11	20	20	20
4	---	---	---	---	---	---	11	11	11	20	19	19
5	---	---	---	---	---	---	11	11	11	19	18	18
6	---	---	---	---	---	---	11	11	11	18	18	18
7	---	---	---	---	---	---	11	11	11	18	17	17
8	---	---	---	---	---	---	11	11	11	17	17	17
9	---	---	---	---	---	---	11	11	11	18	17	18
10	---	---	---	---	---	---	11	11	11	18	16	16
11	---	---	---	---	---	---	---	---	---	17	16	17
12	---	---	---	---	---	---	---	---	---	17	17	17
13	---	---	---	---	---	---	---	---	---	18	17	18
14	---	---	---	---	---	---	---	---	---	19	18	19
15	---	---	---	---	---	---	---	---	---	21	19	21
16	---	---	---	---	---	---	---	---	---	23	21	23
17	---	---	---	---	---	---	150	28	150	24	22	23
18	---	---	---	---	---	---	150	99	100	22	18	22
19	---	---	---	---	---	---	99	86	86	64	19	43
20	---	---	---	---	---	---	86	69	69	62	39	46
21	---	---	---	---	---	---	69	57	57	55	38	41
22	---	---	---	---	---	---	57	49	49	43	35	39
23	---	---	---	---	---	---	49	41	41	36	28	33
24	---	---	---	---	---	---	41	38	38	30	25	27
25	---	---	---	---	---	---	38	36	36	27	20	23
26	---	---	---	---	---	---	36	31	31	22	14	18
27	---	---	---	---	---	---	31	30	30	16	12	14
28	---	---	---	---	---	---	30	27	27	13	8.0	10
29	---	---	---	---	---	---	27	24	24	580	4.0	56
30	---	---	---	---	---	---	24	23	23	660	220	410
31	---	---	---	---	---	---	23	21	21	230	86	130
MONTH	---	---	---	---	---	---	---	---	---	660	4.0	40

03238745 TWELVEMILE CREEK AT HIGHWAY 1997 NEAR ALEXANDRIA, KY--Continued

TURBIDITY (NTU), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	89	58	70	54	36	44	41	16	20	29	17	23
2	62	44	51	38	23	30	20	16	18	29	20	24
3	47	31	39	29	16	21	21	14	16	35	23	29
4	35	24	30	990	19	410	16	13	15	43	26	33
5	28	20	23	710	150	290	26	14	16	46	32	38
6	25	13	17	150	71	99	890	15	130	62	35	43
7	23	9.0	14	74	47	58	580	160	290	57	15	32
8	13	7.0	9.6	50	30	38	220	140	170	110	17	53
9	990	6.0	150	31	23	26	140	58	99	45	18	36
10	750	270	400	23	12	19	60	36	48	53	37	42
11	280	130	180	28	14	17	180	21	47	52	34	42
12	130	87	100	18	13	16	170	16	29	57	33	41
13	92	51	71	58	17	35	170	12	30	51	23	39
14	54	34	43	52	34	42	35	10	14	53	25	42
15	55	30	35	44	27	39	15	8.0	9.9	77	23	39
16	300	28	130	49	36	41	38	20	22	44	20	27
17	320	140	220	44	31	35	86	21	30	---	---	---
18	140	80	110	42	24	28	120	23	66	---	---	---
19	80	49	62	28	19	23	150	31	79	350	97	170
20	52	32	40	28	18	21	170	41	110	130	60	81
21	42	22	27	42	20	28	300	17	93	110	50	69
22	32	14	19	41	27	32	150	13	27	>1000	53	---
23	30	6.7	15	31	23	26	140	6.0	18	170	40	76
24	18	10	14	32	23	27	12	5.0	8.3	>1000	70	---
25	270	13	120	32	21	26	9.9	6.3	8.5	>1000	120	---
26	140	100	120	30	19	22	16	8.9	10	180	89	130
27	130	73	97	20	16	18	16	10	13	>1000	120	---
28	78	51	62	21	16	17	20	11	14	280	69	120
29	---	---	---	20	14	16	18	14	15	150	56	84
30	---	---	---	19	15	16	26	15	18	140	47	71
31	---	---	---	19	15	16	---	---	---	100	29	57
MONTH	990	6.0	81	990	12	51	890	5.0	49	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	590	53	250	54	42	50	---	---	---	340	100	170
2	>1000	67	---	60	45	50	---	---	---	140	78	100
3	170	45	93	60	44	50	---	---	---	83	49	66
4	>1000	56	---	100	43	56	---	---	---	73	47	55
5	>1000	130	---	68	45	55	---	---	---	60	45	49
6	>1000	290	---	64	41	48	---	---	---	60	46	50
7	990	350	630	470	38	71	---	---	---	57	47	50
8	350	150	220	970	51	240	---	---	---	56	48	51
9	160	92	120	420	200	260	---	---	---	64	45	56
10	110	68	85	520	91	220	---	---	---	100	53	83
11	160	53	78	150	51	78	---	---	---	84	25	53
12	370	32	60	88	54	62	---	---	---	38	23	27
13	93	33	49	68	45	54	---	---	---	36	24	29
14	74	28	35	84	38	51	---	---	---	30	24	25
15	---	---	---	63	33	48	---	---	---	32	24	26
16	290	120	190	79	41	50	---	---	---	34	22	26
17	250	70	99	79	45	54	---	---	---	30	23	25
18	95	61	74	---	55	---	---	---	---	160	24	63
19	120	50	66	680	210	380	---	---	---	180	96	140
20	130	52	62	210	140	170	---	---	---	120	62	86
21	89	50	61	170	120	140	---	---	---	85	46	57
22	76	46	54	---	---	---	---	---	---	71	28	47
23	79	46	53	750	170	290	---	---	---	57	22	44
24	67	40	49	200	100	140	---	---	---	71	26	49
25	73	41	50	>1000	63	---	---	---	---	74	48	57
26	69	46	51	---	---	---	---	---	---	64	44	49
27	60	44	51	320	130	210	---	---	---	56	45	51
28	430	43	60	>1000	110	---	---	---	---	75	43	54
29	270	58	95	380	110	150	---	---	---	58	39	51
30	69	42	55	120	80	90	69	37	50	55	37	44
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	340	22	58
YEAR	>1000											

03238772 FOUR MILE CREEK AT POPLAR RIDGE ROAD NEAR ALEXANDRIA, KY

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2001 to September 2001.

COOPERATION.--Northern Kentucky Sanitation District No. 1.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 2001 to September 2001.
pH: April 2001 to September 2001.
WATER TEMPERATURES: April 2001 to September 2001.
DISSOLVED OXYGEN: April 2001 to September 2001.
TURBIDITY: April 2001 to September 2001.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 966 microsiemens, June 1, 2001; minimum, 256 microsiemens, August 31, 2001.
pH.--Maximum, 8.3 units, April 12, 24-26, 28, 2001; minimum, 7.2 units, May 11, 2001.
WATER TEMPERATURES: Maximum, 25.6°C, July 10, 2001; minimum, 6.4°C, April 18, 2001.
DISSOLVED OXYGEN: Maximum, 17.7 mg/L, April 12, 2001; minimum 2.1 mg/L, May 7, 2001.
TURBIDITY: Maximum, 990 NTU, April 14, and May 18, 2001; minimum, 5.7 NTU, Sept. 14, 2001.

REMARKS.--There were several periods of missing data because of equipment failure. Records are rated fair.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03238772 FOUR MILE CREEK AT POPLAR RIDGE ROAD NEAR ALEXANDRIA, KY--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	812	788	802
2	---	---	---	---	---	---	---	---	---	813	789	799
3	---	---	---	---	---	---	---	---	---	816	791	804
4	---	---	---	---	---	---	---	---	---	830	802	819
5	---	---	---	---	---	---	---	---	---	842	817	827
6	---	---	---	---	---	---	---	---	---	833	817	825
7	---	---	---	---	---	---	---	---	---	859	808	842
8	---	---	---	---	---	---	---	---	---	870	278	599
9	---	---	---	---	---	---	---	---	---	772	673	722
10	---	---	---	---	---	---	---	---	---	832	768	809
11	---	---	---	---	---	---	---	---	---	856	825	841
12	---	---	---	---	---	---	814	769	788	905	776	816
13	---	---	---	---	---	---	820	747	784	776	737	754
14	---	---	---	---	---	---	819	748	785	804	755	780
15	---	---	---	---	---	---	912	762	810	834	799	818
16	---	---	---	---	---	---	913	831	855	838	799	824
17	---	---	---	---	---	---	852	781	817	882	490	759
18	---	---	---	---	---	---	855	823	840	673	266	526
19	---	---	---	---	---	---	865	791	831	688	442	603
20	---	---	---	---	---	---	942	776	847	691	679	683
21	---	---	---	---	---	---	889	857	864	872	691	764
22	---	---	---	---	---	---	885	825	851	865	649	730
23	---	---	---	---	---	---	857	801	832	823	673	748
24	---	---	---	---	---	---	834	783	809	854	448	660
25	---	---	---	---	---	---	835	787	819	805	640	753
26	---	---	---	---	---	---	817	792	807	825	758	802
27	---	---	---	---	---	---	812	796	804	758	512	636
28	---	---	---	---	---	---	813	789	802	783	723	763
29	---	---	---	---	---	---	811	788	801	867	765	809
30	---	---	---	---	---	---	811	790	800	923	865	894
31	---	---	---	---	---	---	---	---	---	947	923	938
MONTH	---	---	---	---	---	---	---	---	---	947	266	766

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	966	460	676	757	671	718	---	---	---	582	429	538
2	850	734	793	802	683	755	---	---	---	604	580	593
3	886	755	829	842	786	814	---	---	---	597	574	584
4	936	430	740	855	726	789	---	---	---	683	597	631
5	824	404	751	728	650	673	---	---	---	775	683	744
6	600	350	447	775	654	718	---	---	---	798	769	787
7	541	447	502	802	560	705	---	---	---	803	777	792
8	569	541	555	582	319	491	---	---	---	841	754	789
9	577	560	569	571	343	486	---	---	---	777	503	569
10	588	554	568	675	568	620	---	---	---	617	474	520
11	569	551	560	774	671	729	---	---	---	623	544	585
12	573	324	552	818	759	788	---	---	---	673	620	658
13	558	324	494	851	761	806	---	---	---	707	671	694
14	586	555	574	868	797	834	---	---	---	731	706	719
15	590	292	521	885	821	853	---	---	---	744	725	735
16	573	346	512	903	857	876	---	---	---	764	736	747
17	666	563	611	918	875	896	---	---	---	778	743	761
18	761	658	714	---	---	---	---	---	---	815	744	780
19	797	751	779	---	---	---	---	---	---	794	573	718
20	822	780	806	---	---	---	---	---	---	573	533	554
21	872	796	829	---	---	---	---	---	---	638	572	611
22	851	806	828	---	---	---	---	---	---	699	637	674
23	842	811	826	---	---	---	---	---	---	741	699	723
24	863	814	836	---	---	---	---	---	---	767	502	623
25	891	816	851	---	---	---	---	---	---	603	502	542
26	885	820	855	---	---	---	---	---	---	655	603	635
27	880	847	863	---	---	---	---	---	---	703	655	674
28	896	772	864	---	---	---	---	---	---	744	701	719
29	786	572	622	---	---	---	---	---	---	773	744	753
30	691	584	656	---	---	---	744	672	722	800	773	781
31	---	---	---	---	---	---	774	256	467	---	---	---
MONTH	966	292	686	---	---	---	---	---	---	841	429	674
YEAR	966	256	728									

03238772 FOUR MILE CREEK AT POPLAR RIDGE ROAD NEAR ALEXANDRIA, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	8.1	7.5	7.8
2	---	---	---	---	---	---	---	---	---	8.0	7.5	7.7
3	---	---	---	---	---	---	---	---	---	7.9	7.4	7.6
4	---	---	---	---	---	---	---	---	---	7.8	7.4	7.6
5	---	---	---	---	---	---	---	---	---	7.7	7.4	7.5
6	---	---	---	---	---	---	---	---	---	7.6	7.3	7.4
7	---	---	---	---	---	---	---	---	---	7.5	7.3	7.3
8	---	---	---	---	---	---	---	---	---	7.6	7.3	7.4
9	---	---	---	---	---	---	---	---	---	7.6	7.3	7.4
10	---	---	---	---	---	---	---	---	---	7.7	7.3	7.4
11	---	---	---	---	---	---	---	---	---	7.4	7.2	7.3
12	---	---	---	---	---	---	8.3	7.7	7.9	7.7	7.3	7.5
13	---	---	---	---	---	---	8.2	7.6	7.8	7.6	7.3	7.4
14	---	---	---	---	---	---	8.2	7.6	7.9	7.5	7.3	7.4
15	---	---	---	---	---	---	7.9	7.6	7.7	7.8	7.3	7.6
16	---	---	---	---	---	---	8.2	7.8	7.9	7.7	7.4	7.5
17	---	---	---	---	---	---	8.1	7.8	7.9	7.7	7.4	7.5
18	---	---	---	---	---	---	8.2	7.8	7.9	7.7	7.4	7.5
19	---	---	---	---	---	---	8.2	7.8	8.0	7.7	7.5	7.6
20	---	---	---	---	---	---	7.9	7.7	7.8	7.8	7.6	7.6
21	---	---	---	---	---	---	8.2	7.7	7.9	7.6	7.4	7.5
22	---	---	---	---	---	---	8.1	7.5	7.8	7.8	7.6	7.7
23	---	---	---	---	---	---	8.1	7.4	7.7	7.7	7.6	7.6
24	---	---	---	---	---	---	8.3	7.3	7.8	7.8	7.6	7.6
25	---	---	---	---	---	---	8.3	7.7	8.0	7.8	7.6	7.7
26	---	---	---	---	---	---	8.3	7.7	8.0	7.9	7.6	7.7
27	---	---	---	---	---	---	8.2	7.7	8.0	7.9	7.6	7.8
28	---	---	---	---	---	---	8.3	7.6	7.9	8.0	7.8	7.9
29	---	---	---	---	---	---	8.2	7.6	7.9	7.9	7.7	7.8
30	---	---	---	---	---	---	8.1	7.5	7.8	7.8	7.7	7.7
31	---	---	---	---	---	---	---	---	---	7.8	7.7	7.7
MONTH	---	---	---	---	---	---	---	---	---	8.1	7.2	7.6

03238772 FOUR MILE CREEK AT POPLAR RIDGE ROAD NEAR ALEXANDRIA, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.9	7.7	7.8	7.8	7.6	7.6	---	---	---	7.8	7.6	7.7
2	8.0	7.8	7.9	7.8	7.5	7.6	---	---	---	7.8	7.7	7.7
3	7.9	7.8	7.8	7.8	7.6	7.7	---	---	---	7.9	7.7	7.8
4	8.0	7.7	7.8	7.9	7.6	7.7	---	---	---	7.8	7.7	7.7
5	8.1	7.7	7.8	7.9	7.7	7.7	---	---	---	7.8	7.6	7.7
6	8.0	7.6	7.7	7.7	7.6	7.6	---	---	---	7.8	7.7	7.7
7	7.9	7.6	7.8	7.9	7.6	7.7	---	---	---	7.8	7.7	7.8
8	8.0	7.8	7.9	7.8	7.6	7.6	---	---	---	7.7	7.5	7.6
9	8.1	7.9	8.0	7.6	7.6	7.6	---	---	---	7.9	7.6	7.7
10	8.2	8.0	8.0	7.6	7.5	7.5	---	---	---	7.8	7.5	7.7
11	8.2	7.9	8.0	7.6	7.4	7.5	---	---	---	8.0	7.6	7.7
12	8.2	7.8	8.0	7.6	7.4	7.5	---	---	---	8.0	7.8	7.9
13	7.9	7.6	7.7	7.7	7.5	7.5	---	---	---	8.0	7.8	7.9
14	8.1	7.8	7.9	7.7	7.6	7.6	---	---	---	7.9	7.7	7.8
15	8.1	7.6	7.8	7.7	7.6	7.7	---	---	---	7.9	7.8	7.8
16	7.9	7.6	7.8	7.7	7.6	7.7	---	---	---	7.9	7.7	7.8
17	7.9	7.6	7.7	7.7	7.7	7.7	---	---	---	7.9	7.8	7.8
18	7.8	7.6	7.6	---	---	---	---	---	---	7.9	7.7	7.8
19	7.8	7.6	7.7	---	---	---	---	---	---	7.9	7.7	7.8
20	7.7	7.6	7.7	---	---	---	---	---	---	7.9	7.7	7.8
21	7.7	7.5	7.6	---	---	---	---	---	---	7.8	7.7	7.7
22	7.8	7.7	7.7	---	---	---	---	---	---	7.8	7.7	7.7
23	7.8	7.7	7.7	---	---	---	---	---	---	7.8	7.6	7.6
24	7.8	7.7	7.7	---	---	---	---	---	---	7.9	7.6	7.7
25	7.8	7.6	7.7	---	---	---	---	---	---	7.7	7.6	7.6
26	7.8	7.6	7.7	---	---	---	---	---	---	7.8	7.6	7.7
27	7.8	7.6	7.7	---	---	---	---	---	---	7.8	7.5	7.7
28	7.8	7.6	7.7	---	---	---	---	---	---	7.6	7.5	7.6
29	7.8	7.6	7.7	---	---	---	---	---	---	7.6	7.6	7.6
30	7.7	7.5	7.6	---	---	---	7.9	7.7	7.8	7.6	7.6	7.6
31	---	---	---	---	---	---	7.9	7.6	7.7	---	---	---
MONTH	8.2	7.5	7.8	---	---	---	---	---	---	---	---	---
YEAR	8.3	7.2	7.7									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03238772 FOUR MILE CREEK AT POPLAR RIDGE ROAD NEAR ALEXANDRIA, KY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	20.7	14.8	17.3
2	---	---	---	---	---	---	---	---	---	20.8	15.9	18.2
3	---	---	---	---	---	---	---	---	---	20.6	16.2	18.2
4	---	---	---	---	---	---	---	---	---	21.5	17.1	19.0
5	---	---	---	---	---	---	---	---	---	21.5	16.8	18.9
6	---	---	---	---	---	---	---	---	---	21.9	17.4	19.4
7	---	---	---	---	---	---	---	---	---	20.9	18.9	19.7
8	---	---	---	---	---	---	---	---	---	20.9	17.7	19.0
9	---	---	---	---	---	---	---	---	---	20.5	15.2	17.5
10	---	---	---	---	---	---	---	---	---	20.9	15.6	17.9
11	---	---	---	---	---	---	22.1	17.2	19.4	20.8	16.6	18.6
12	---	---	---	---	---	---	22.6	18.4	20.0	19.6	17.7	18.7
13	---	---	---	---	---	---	21.5	16.1	18.4	17.7	14.1	15.6
14	---	---	---	---	---	---	20.0	13.0	16.3	16.6	13.2	14.9
15	---	---	---	---	---	---	17.8	13.6	15.5	20.6	15.0	17.3
16	---	---	---	---	---	---	15.9	10.9	13.1	19.4	17.7	18.5
17	---	---	---	---	---	---	12.3	8.4	9.6	20.0	17.8	18.8
18	---	---	---	---	---	---	13.1	6.4	9.1	20.3	18.1	18.8
19	---	---	---	---	---	---	15.2	7.0	10.5	19.0	18.0	18.4
20	---	---	---	---	---	---	12.7	11.0	11.7	20.8	16.6	18.5
21	---	---	---	---	---	---	18.7	12.4	15.0	20.1	19.0	19.5
22	---	---	---	---	---	---	21.4	16.2	18.3	19.7	17.1	18.2
23	---	---	---	---	---	---	21.8	16.3	18.8	17.2	14.6	15.4
24	---	---	---	---	---	---	20.0	15.3	17.1	16.5	13.5	14.8
25	---	---	---	---	---	---	17.3	10.6	13.7	15.8	13.7	14.7
26	---	---	---	---	---	---	17.6	10.0	13.4	16.7	14.0	15.2
27	---	---	---	---	---	---	18.5	11.3	14.7	16.1	13.8	15.0
28	---	---	---	---	---	---	17.4	12.9	15.1	17.7	13.2	15.2
29	---	---	---	---	---	---	17.6	11.0	14.1	18.5	14.7	16.5
30	---	---	---	---	---	---	19.4	11.7	15.2	18.5	15.4	16.7
31	---	---	---	---	---	---	---	---	---	16.5	13.5	14.7
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.5	15.1	15.9	23.1	21.1	22.1	---	---	---	21.9	20.3	21.1
2	16.3	13.8	14.9	21.9	18.9	20.0	---	---	---	21.3	18.6	20.1
3	15.9	14.0	15.0	20.0	17.8	19.0	---	---	---	21.2	19.1	20.2
4	15.9	15.0	15.4	21.3	18.7	19.7	---	---	---	22.7	20.5	21.4
5	18.9	15.0	16.4	22.4	19.9	20.9	---	---	---	22.8	20.0	21.1
6	20.4	16.8	18.2	21.1	18.2	19.2	---	---	---	21.8	18.3	20.0
7	19.1	17.3	18.0	19.9	17.9	18.8	---	---	---	23.3	19.8	21.2
8	20.5	17.1	18.6	23.1	19.8	21.3	---	---	---	24.0	21.1	22.1
9	20.8	15.8	18.1	24.2	20.4	21.9	---	---	---	24.0	21.3	22.4
10	21.4	16.1	18.6	25.6	21.9	23.4	---	---	---	22.6	20.2	21.2
11	22.4	17.3	19.6	23.8	21.8	22.5	---	---	---	21.2	17.7	19.2
12	23.8	19.6	21.4	21.8	19.5	20.2	---	---	---	20.9	16.8	18.5
13	23.8	19.6	21.4	20.3	18.0	19.1	---	---	---	21.2	17.4	18.7
14	24.5	20.8	22.5	19.9	17.6	18.8	---	---	---	19.3	17.4	17.9
15	24.7	21.6	22.8	20.5	17.3	18.8	---	---	---	17.4	15.2	16.1
16	24.0	20.5	22.0	20.8	17.9	19.2	---	---	---	16.7	14.3	15.3
17	23.3	20.0	21.6	22.5	19.5	20.8	---	---	---	17.2	14.2	15.5
18	23.2	18.7	20.7	---	---	---	---	---	---	18.0	16.1	16.8
19	24.1	19.0	21.1	---	---	---	---	---	---	18.5	17.6	17.9
20	22.1	20.7	21.4	---	---	---	---	---	---	19.4	16.4	17.6
21	22.3	19.9	20.8	---	---	---	---	---	---	19.0	16.0	17.2
22	20.8	19.5	20.1	---	---	---	---	---	---	19.0	16.4	17.4
23	19.5	17.5	18.5	---	---	---	---	---	---	19.4	16.0	17.3
24	21.1	16.8	18.4	---	---	---	---	---	---	18.4	15.1	16.9
25	21.3	17.3	18.8	---	---	---	---	---	---	15.1	13.1	13.7
26	21.4	17.9	19.2	---	---	---	---	---	---	13.1	11.9	12.5
27	22.0	18.7	20.1	---	---	---	---	---	---	13.0	11.7	12.4
28	21.8	19.4	20.6	---	---	---	---	---	---	12.3	11.0	11.8
29	23.8	20.5	21.8	---	---	---	---	---	---	12.6	10.6	11.6
30	23.7	20.7	22.1	---	---	---	24.5	21.2	22.6	13.2	10.7	11.9
31	---	---	---	---	---	---	23.1	21.8	22.3	---	---	---
MONTH	24.7	13.8	19.5	---	---	---	---	---	---	24.0	10.6	17.6
YEAR	25.6	6.4	18.0									

03238772 FOUR MILE CREEK AT POPLAR RIDGE ROAD NEAR ALEXANDRIA, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	11.8	7.1	9.5
2	---	---	---	---	---	---	---	---	---	10.7	5.9	8.4
3	---	---	---	---	---	---	---	---	---	9.4	5.5	7.5
4	---	---	---	---	---	---	---	---	---	8.5	5.3	6.9
5	---	---	---	---	---	---	---	---	---	8.3	4.9	6.6
6	---	---	---	---	---	---	---	---	---	7.2	3.6	5.1
7	---	---	---	---	---	---	---	---	---	5.6	2.1	3.0
8	---	---	---	---	---	---	---	---	---	6.6	3.7	5.3
9	---	---	---	---	---	---	---	---	---	6.1	3.7	4.6
10	---	---	---	---	---	---	---	---	---	6.3	3.5	4.6
11	---	---	---	---	---	---	---	---	---	5.3	3.2	4.2
12	---	---	---	---	---	---	17.7	5.9	10.6	6.4	4.1	5.2
13	---	---	---	---	---	---	16.1	5.9	9.8	7.3	4.1	5.2
14	---	---	---	---	---	---	14.0	6.8	9.6	6.9	4.7	5.5
15	---	---	---	---	---	---	9.1	6.1	7.2	7.6	4.0	6.1
16	---	---	---	---	---	---	14.4	6.8	9.6	6.2	4.0	5.1
17	---	---	---	---	---	---	12.6	7.9	10.0	7.4	4.3	5.5
18	---	---	---	---	---	---	14.8	9.5	11.7	8.3	5.3	6.5
19	---	---	---	---	---	---	14.0	9.3	11.4	7.7	6.9	7.3
20	---	---	---	---	---	---	11.2	7.8	8.7	7.6	5.5	7.0
21	---	---	---	---	---	---	13.2	7.3	9.9	6.0	4.7	5.3
22	---	---	---	---	---	---	13.1	6.7	9.4	7.9	5.3	7.1
23	---	---	---	---	---	---	15.0	6.0	10.0	7.6	6.6	7.1
24	---	---	---	---	---	---	14.3	5.6	9.9	9.5	7.1	8.0
25	---	---	---	---	---	---	16.3	7.2	11.2	8.3	7.4	7.9
26	---	---	---	---	---	---	15.3	7.7	11.6	8.1	7.2	7.6
27	---	---	---	---	---	---	14.4	7.3	10.8	8.7	7.7	8.3
28	---	---	---	---	---	---	13.5	6.5	10.1	8.8	7.4	8.2
29	---	---	---	---	---	---	13.3	6.8	10.4	8.1	6.7	7.3
30	---	---	---	---	---	---	12.8	7.0	10.1	7.7	6.1	6.8
31	---	---	---	---	---	---	---	---	---	7.5	5.9	6.7
MONTH	---	---	---	---	---	---	---	---	---	11.8	2.1	6.4

03238772 FOUR MILE CREEK AT POPLAR RIDGE ROAD NEAR ALEXANDRIA, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.9	6.6	7.9	6.3	4.3	5.2	---	---	---	6.0	5.1	5.7
2	8.7	7.8	8.1	7.4	5.2	5.9	---	---	---	6.8	5.7	6.3
3	8.3	7.2	7.8	7.1	5.6	6.1	---	---	---	7.1	5.6	6.2
4	9.0	6.5	7.7	7.4	5.7	6.5	---	---	---	5.7	4.8	5.2
5	8.5	7.2	7.9	6.6	5.8	6.1	---	---	---	5.0	4.4	4.6
6	9.0	7.8	8.2	6.2	5.1	5.4	---	---	---	5.2	4.1	4.6
7	8.2	7.3	7.8	7.1	5.2	6.0	---	---	---	5.1	4.3	4.7
8	7.8	6.9	7.4	7.3	5.6	6.3	---	---	---	5.9	4.5	5.1
9	7.9	6.8	7.5	7.4	5.5	6.7	---	---	---	6.3	4.8	5.4
10	8.0	6.7	7.4	6.1	4.7	5.3	---	---	---	6.5	4.8	5.8
11	7.8	6.3	7.2	4.9	3.4	4.0	---	---	---	7.4	4.3	5.8
12	7.6	6.2	6.7	5.8	3.5	4.2	---	---	---	7.4	5.5	6.3
13	7.6	6.1	6.8	7.0	4.0	4.9	---	---	---	6.7	5.2	5.9
14	7.3	5.9	6.5	6.6	5.1	5.6	---	---	---	6.3	4.6	5.3
15	7.6	5.8	6.5	6.2	5.1	5.6	---	---	---	6.0	4.9	5.3
16	7.1	5.9	6.7	6.2	5.2	5.5	---	---	---	5.8	5.0	5.4
17	7.0	5.7	6.4	6.3	5.3	5.8	---	---	---	6.2	5.1	5.7
18	7.0	5.5	6.1	---	---	---	---	---	---	6.0	5.3	5.7
19	6.9	5.6	6.3	---	---	---	---	---	---	7.0	5.3	5.8
20	6.9	5.4	6.1	---	---	---	---	---	---	7.1	6.0	6.6
21	6.9	5.2	5.8	---	---	---	---	---	---	6.7	5.5	6.0
22	6.2	5.4	5.8	---	---	---	---	---	---	6.6	5.0	5.7
23	6.8	5.4	6.1	---	---	---	---	---	---	6.1	5.0	5.6
24	8.3	5.4	6.9	---	---	---	---	---	---	6.7	4.9	5.9
25	7.8	6.0	6.7	---	---	---	---	---	---	7.1	5.9	6.3
26	7.5	5.8	6.4	---	---	---	---	---	---	7.7	6.3	6.7
27	7.2	5.4	6.4	---	---	---	---	---	---	7.3	6.1	6.7
28	6.9	5.2	5.9	---	---	---	---	---	---	6.9	6.3	6.6
29	6.8	5.3	6.1	---	---	---	---	---	---	7.0	6.5	6.7
30	5.9	4.3	5.0	---	---	---	6.8	4.5	5.6	6.9	6.5	6.7
31	---	---	---	---	---	---	7.2	4.1	5.8	---	---	---
MONTH	9.0	4.3	6.8	---	---	---	---	---	---	7.7	4.1	5.8
YEAR	17.7	2.1	6.8									

TURBIDITY (NTU), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03238772 FOUR MILE CREEK AT POPLAR RIDGE ROAD NEAR ALEXANDRIA, KY--Continued

TURBIDITY (NTU), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	140	28	40
2	---	---	---	---	---	---	---	---	---	140	31	51
3	---	---	---	---	---	---	---	---	---	180	34	54
4	---	---	---	---	---	---	---	---	---	140	38	56
5	---	---	---	---	---	---	---	---	---	140	36	53
6	---	---	---	---	---	---	---	---	---	110	35	44
7	---	---	---	---	---	---	---	---	---	140	30	42
8	---	---	---	---	---	---	---	---	---	530	46	210
9	---	---	---	---	---	---	---	---	---	180	50	81
10	---	---	---	---	---	---	---	---	---	140	34	53
11	---	---	---	---	---	---	32	22	26	160	28	48
12	---	---	---	---	---	---	40	17	24	71	35	55
13	---	---	---	---	---	---	380	15	26	59	33	42
14	---	---	---	---	---	---	990	15	39	64	23	31
15	---	---	---	---	---	---	860	18	68	120	19	34
16	---	---	---	---	---	---	220	30	38	29	16	20
17	---	---	---	---	---	---	62	34	39	660	24	170
18	---	---	---	---	---	---	57	30	36	990	79	310
19	---	---	---	---	---	---	50	29	35	250	89	160
20	---	---	---	---	---	---	55	33	41	150	61	82
21	---	---	---	---	---	---	130	22	41	160	61	80
22	---	---	---	---	---	---	61	27	34	180	68	130
23	---	---	---	---	---	---	130	18	35	170	56	89
24	---	---	---	---	---	---	110	28	39	560	61	190
25	---	---	---	---	---	---	46	28	34	190	72	98
26	---	---	---	---	---	---	160	25	35	260	58	93
27	---	---	---	---	---	---	36	21	26	360	93	170
28	---	---	---	---	---	---	52	24	29	230	48	74
29	---	---	---	---	---	---	49	26	33	110	33	53
30	---	---	---	---	---	---	65	26	34	57	40	47
31	---	---	---	---	---	---	---	---	---	84	37	47
MONTH	---	---	---	---	---	---	---	---	---	990	16	87

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	860	43	190	37	20	30	---	---	---	100	45	60
2	170	66	92	120	25	41	---	---	---	50	33	40
3	88	42	66	180	23	59	---	---	---	57	11	23
4	970	47	190	120	23	50	---	---	---	33	20	28
5	970	63	110	83	43	58	---	---	---	39	25	31
6	970	110	340	130	32	52	---	---	---	42	27	31
7	120	49	79	700	31	110	---	---	---	280	16	82
8	140	34	57	---	---	---	---	---	---	---	---	---
9	100	15	37	560	54	120	---	---	---	---	---	---
10	96	7.0	25	85	31	47	---	---	---	120	23	72
11	100	7.0	24	36	26	30	---	---	---	42	11	26
12	980	6.0	110	120	26	43	---	---	---	19	8.2	13
13	920	31	190	120	26	48	---	---	---	18	10	13
14	48	18	33	110	27	49	---	---	---	26	5.7	14
15	980	22	190	110	25	35	---	---	---	19	6.8	10
16	290	34	99	420	21	48	---	---	---	18	7.5	13
17	130	22	45	110	22	44	---	---	---	31	14	18
18	45	22	32	---	---	---	---	---	---	68	14	30
19	38	21	30	---	---	---	---	---	---	320	61	95
20	29	15	22	---	---	---	---	---	---	250	100	140
21	120	17	52	---	---	---	---	---	---	110	57	84
22	140	31	67	---	---	---	---	---	---	67	42	56
23	52	27	38	---	---	---	---	---	---	68	46	54
24	43	17	31	---	---	---	---	---	---	---	---	---
25	35	14	24	---	---	---	---	---	---	300	82	150
26	36	16	23	---	---	---	---	---	---	130	36	71
27	27	14	21	---	---	---	---	---	---	99	41	51
28	110	14	29	---	---	---	---	---	---	70	37	47
29	260	48	130	---	---	---	---	---	---	50	25	35
30	100	33	53	---	---	---	---	---	---	37	20	28
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	980	6.0	81	---	---	---	---	---	---	---	---	---
YEAR	990	5.7	65									

03238780 FOURMILE CREEK AT HIGHWAY 547 NEAR ALEXANDRIA, KY

LOCATION.--Lat 39°00'33", long 84°22'10", Campbell County, Hydrologic Unit 05090201,at the intersection of Lower Eightmile Road and State Highway 547, 1.1 mi above Tug Creek, 3.4 mi north of Alexandria, and at mile 4.7.

DRAINAGE AREA.--5.3 mi^2.

PERIOD OF RECORD.--May 1999 to March 2001 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 520 ft above NGVD of 1929 (from topographic map).

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

COOPERATION.--Northern Kentucky Sanitation District No. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	e.38	.52	e.50	4.3	1.4	---	---	---	---	---	---
2	1.9	e.36	.47	e.48	2.7	1.4	---	---	---	---	---	---
3	1.8	e.34	.42	e.44	2.4	1.2	---	---	---	---	---	---
4	1.1	e.32	.38	.44	1.3	37	---	---	---	---	---	---
5	5.7	e.31	.40	.51	1.4	11	---	---	---	---	---	---
6	2.3	e.30	.38	.63	1.5	4.0	---	---	---	---	---	---
7	1.1	4.0	.39	.55	1.2	---	---	---	---	---	---	---
8	1.0	1.6	.42	.54	1.2	---	---	---	---	---	---	---
9	.73	8.5	.37	.42	13	---	---	---	---	---	---	---
10	.73	5.7	.36	.37	13	---	---	---	---	---	---	---
11	.65	1.3	7.5	.36	3.9	---	---	---	---	---	---	---
12	.61	.74	8.8	.39	2.7	---	---	---	---	---	---	---
13	.61	.60	1.9	.38	2.1	---	---	---	---	---	---	---
14	.65	.50	13	.48	2.4	---	---	---	---	---	---	---
15	.73	.42	4.0	1.2	3.9	---	---	---	---	---	---	---
16	.80	.39	229	.92	16	---	---	---	---	---	---	---
17	1.0	.40	24	.60	7.7	---	---	---	---	---	---	---
18	2.2	.33	5.8	.67	3.4	---	---	---	---	---	---	---
19	1.5	.30	e3.4	4.2	2.0	---	---	---	---	---	---	---
20	e1.3	.32	e2.2	2.2	2.1	---	---	---	---	---	---	---
21	e1.1	.36	e1.8	e1.2	1.6	---	---	---	---	---	---	---
22	e.95	e.31	e1.5	.83	2.0	---	---	---	---	---	---	---
23	e.84	e.29	e1.2	.70	1.8	---	---	---	---	---	---	---
24	e.76	e.27	e1.0	.70	1.9	---	---	---	---	---	---	---
25	e.68	4.1	e.86	e.62	13	---	---	---	---	---	---	---
26	e.61	2.6	e.78	e.56	4.2	---	---	---	---	---	---	---
27	e.57	1.3	e.71	e.52	2.2	---	---	---	---	---	---	---
28	e.52	.83	e.66	e.48	1.8	---	---	---	---	---	---	---
29	e.47	.64	e.61	4.8	---	---	---	---	---	---	---	---
30	e.44	.58	e.56	24	---	---	---	---	---	---	---	---
31	e.41	---	e.53	16	---	---	---	---	---	---	---	---
TOTAL	35.66	38.39	313.92	66.69	116.7	---	---	---	---	---	---	---
MEAN	1.15	1.28	10.1	2.15	4.17	---	---	---	---	---	---	---
MAX	5.7	8.5	229	24	16	---	---	---	---	---	---	---
MIN	.41	.27	.36	.36	1.2	---	---	---	---	---	---	---

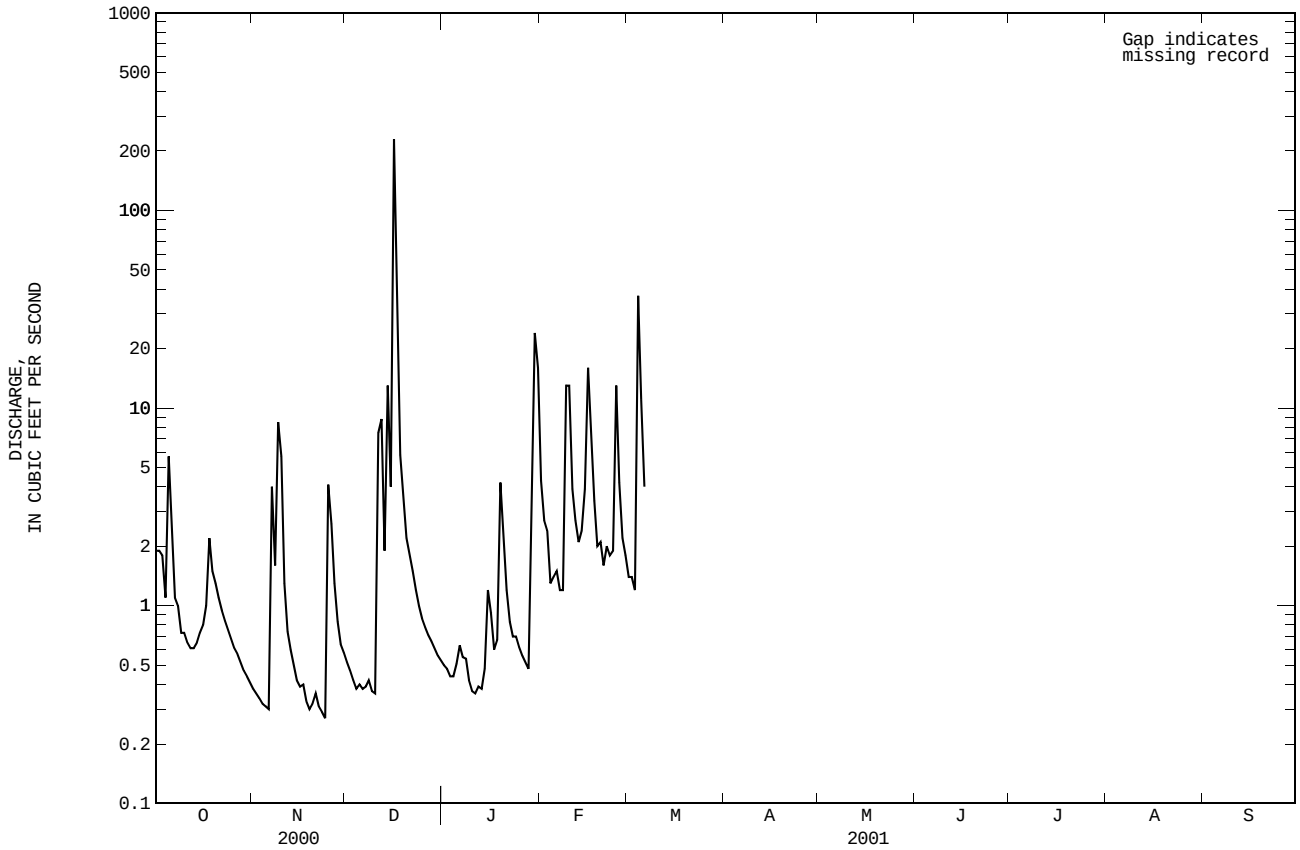
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	.82	.77	5.89	4.85	13.1	7.63	7.88	2.65	1.97	1.41	1.88	3.32
MAX	1.15	1.28	10.1	7.56	21.8	7.63	7.88	4.85	3.57	2.69	3.68	6.64
(WY)	2001	2001	2001	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	.49	.26	1.65	2.15	4.17	7.63	7.88	.46	.36	.13	.072	.003
(WY)	2000	2000	2000	2001	2001	2000	2000	1999	1999	1999	1999	1999

03238780 FOURMILE CREEK AT HIGHWAY 547 NEAR ALEXANDRIA, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	2380.96					
ANNUAL MEAN	6.51				5.65	
HIGHEST ANNUAL MEAN					5.65	2000
LOWEST ANNUAL MEAN					5.65	2000
HIGHEST DAILY MEAN	350	Feb 18	229	Dec 16	350	Feb 18 2000
LOWEST DAILY MEAN	.08	Jan 30	.27	Nov 24	.00	Jul 14 1999
ANNUAL SEVEN-DAY MINIMUM	.12	Jan 24	.31	Nov 18	.00	Aug 14 1999
MAXIMUM PEAK FLOW			763	Dec 16	1150	Jan 3 2000
MAXIMUM PEAK STAGE			5.29	Dec 16	6.16	Jan 3 2000
10 PERCENT EXCEEDS	8.2		6.1		4.9	
50 PERCENT EXCEEDS	1.1		.86		.58	
90 PERCENT EXCEEDS	.31		.37		.03	

e Estimated



03250190 SLATE CREEK AT HIGHWAY 713 NEAR MOUNT STERLING, KY

LOCATION.--Lat 38°01'26", long 83°49'54", Montgomery County, Hydrologic Unit 05100101, on right downstream side of bridge on Highway 713, 0.2 mi below Greenbrier Creek, 1.0 mi above Town Branch, 6.4 mi east of Mount Sterling, and at mile 43.2.

DRAINAGE AREA.--84.5 mi^2

PERIOD OF RECORD.--March 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 800 ft above NGVD of 1929 (from topographic map).

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

COOPERATION.--City of Mount Sterling.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	8.7	4.9	e7.6	117	76	112	32	50	3.0	87	2.8
2	.88	.06	15	e7.0	82	69	159	66	84	2.6	55	1.8
3	1.3	.36	29	e6.4	61	59	249	17	86	1.8	223	1.9
4	2.7	.55	22	e5.9	56	597	193	8.6	100	713	171	2.7
5	1.7	.62	2.0	e5.5	51	771	114	5.9	107	428	63	2.1
6	1.0	.65	e1.3	e5.1	46	248	83	4.7	56	65	34	1.6
7	1.1	6.4	e1.0	e4.8	41	155	68	6.0	335	33	19	1.3
8	1.3	18	e.88	e4.5	36	113	56	3.5	283	195	9.9	1.0
9	1.4	e45	e.74	e4.2	36	83	51	12	83	597	6.4	.85
10	7.8	e110	e.66	e4.0	154	67	45	6.2	49	124	e26	.84
11	22	19	4.1	e3.8	93	59	40	3.5	34	54	e90	.84
12	15	4.6	6.5	e3.6	66	52	36	4.1	24	30	e350	.78
13	8.5	2.0	8.1	e3.5	56	68	32	3.2	18	19	e150	.67
14	.05	1.4	159	e3.3	57	59	28	2.4	12	11	e70	7.2
15	.27	1.0	72	e3.7	663	52	25	2.0	8.4	7.9	e21	19
16	.32	.80	265	e3.5	1070	75	24	2.4	319	4.6	13	19
17	.38	.57	1200	e3.4	996	91	21	6.3	49	3.3	11	15
18	.48	.46	160	e9.8	274	67	21	20	26	13	4.7	.73
19	.42	.42	88	386	170	56	19	399	17	48	3.1	.67
20	.39	e.37	56	306	120	73	19	645	12	39	4.6	1.8
21	.41	e.34	45	136	90	1000	20	150	8.3	14	10	1.6
22	.49	e.33	36	95	76	440	17	538	9.5	306	7.7	1.6
23	7.3	.38	26	71	73	211	15	239	23	161	6.9	1.4
24	19	.89	e22	67	67	139	13	141	14	58	6.5	1.4
25	9.5	4.2	e18	77	417	98	11	181	7.8	37	6.1	1.5
26	.30	7.7	15	58	242	74	8.9	79	4.8	409	5.6	1.5
27	.49	10	e13	59	138	62	8.4	63	3.3	343	6.1	1.4
28	.79	9.6	e11	54	100	54	11	52	2.6	406	3.3	10
29	1.1	6.8	e10	56	---	51	12	36	2.7	1590	.00	28
30	7.4	5.1	e9.2	371	---	48	9.0	26	3.6	775	.99	28
31	17	---	e8.2	194	---	46	---	21	---	188	.92	---
TOTAL	131.97	266.30	2309.58	2019.6	5448	5113	1520.3	2775.8	1832.0	6679.2	1465.81	158.98
MEAN	4.26	8.88	74.5	65.1	195	165	50.7	89.5	61.1	215	47.3	5.30
MAX	22	110	1200	386	1070	1000	249	645	335	1590	350	28
MIN	.05	.06	.66	3.3	36	46	8.4	2.0	2.6	1.8	.00	.67

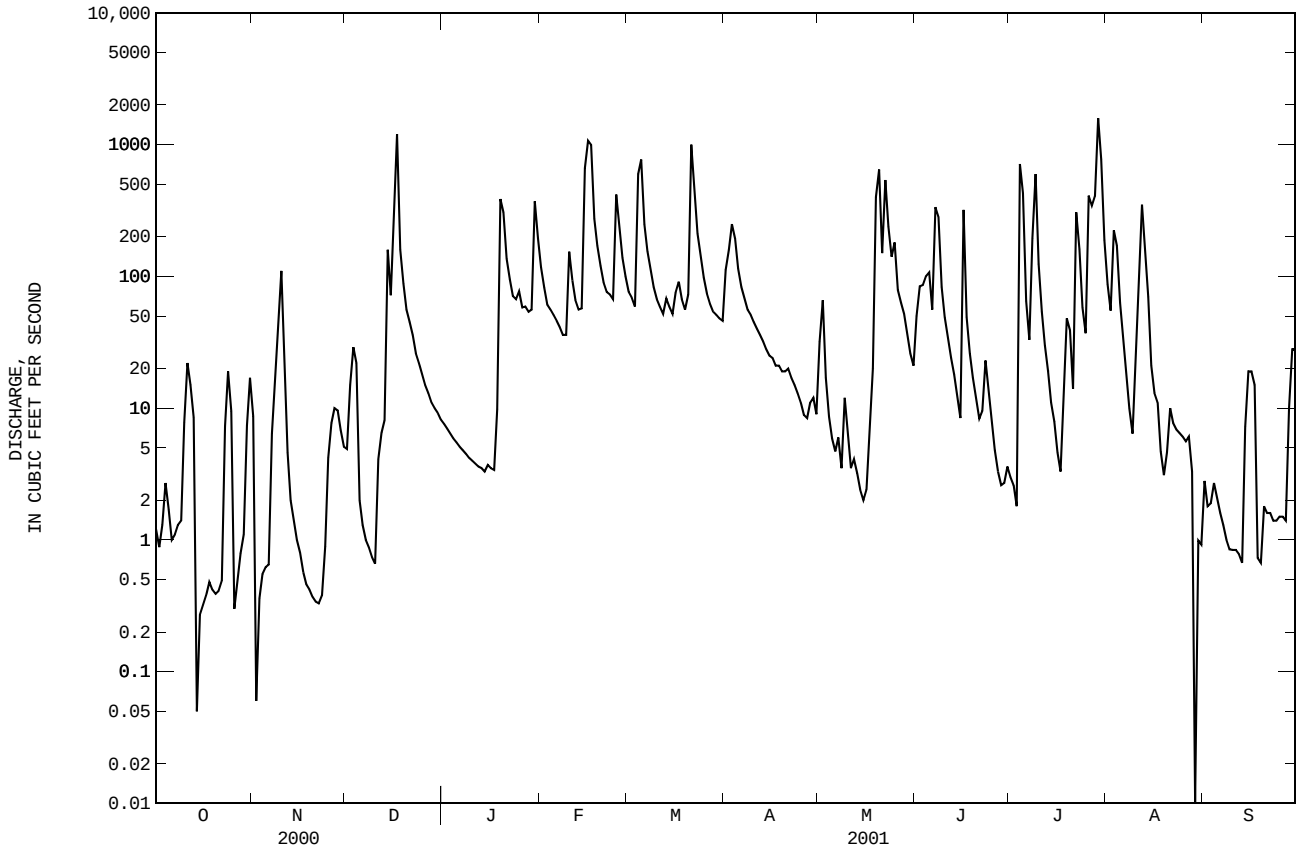
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	4.26	8.88	74.5	65.1	195	150	110	46.3	37.5	123	47.8	8.17
MAX	4.26	8.88	74.5	65.1	195	165	169	89.5	61.1	215	48.4	11.0
(WY)	2001	2001	2001	2001	2001	2001	2000	2001	2001	2001	2000	2000
MIN	4.26	8.88	74.5	65.1	195	135	50.7	3.11	13.9	30.8	47.3	5.30
(WY)	2001	2001	2001	2001	2001	2000	2001	2000	2000	2000	2001	2001

03250190 SLATE CREEK AT HIGHWAY 713 NEAR MOUNT STERLING, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL TOTAL			29720.54			
ANNUAL MEAN			81.4		81.4	
HIGHEST ANNUAL MEAN					81.4	2001
LOWEST ANNUAL MEAN					81.4	2001
HIGHEST DAILY MEAN	1200	Dec 17	1590	Jul 29	1590	Jul 29 2001
LOWEST DAILY MEAN	.00	Sep 22	.00	Aug 29	.00	Sep 22 2000
ANNUAL SEVEN-DAY MINIMUM	.25	Sep 5	.33	Oct 14	.25	Sep 5 2000
MAXIMUM PEAK FLOW			1960	Dec 17	1960	Dec 17 2000
MAXIMUM PEAK STAGE			14.01	Dec 17	14.01	Dec 17 2000
10 PERCENT EXCEEDS	144		201		193	
50 PERCENT EXCEEDS	4.5		18		11	
90 PERCENT EXCEEDS	.42		.88		.76	

e Estimated



03250310 ROCK LICK CREEK ABOVE UNNAMED TRIBUTARY NEAR SHARKEY, KY

LOCATION.--Lat 38°15'04", long 83°33'58", Fleming County, Hydrologic Unit 05100101, on right bank, 1.1 miles above Drip Springs, 1.3 miles north of Sharkey, and 2.7 mi above mouth.

DRAINAGE AREA.--1.66 mi^2

PERIOD OF RECORD.--October 1996 to current year.

GAGE.--Water-stage recorder. Datum of gage is 700 ft above NGVD of 1929, (from topographic map).

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	e.00	e.02	e.01	1.7	.73	1.0	.06	4.6	.00	.88	.07
2	.14	e.00	e.01	e.03	1.0	.60	1.4	.05	2.6	.00	.62	.05
3	.11	e.02	e.00	e.04	.59	.45	2.5	.02	2.2	.00	.55	.05
4	.09	e.03	e.00	e.13	.42	18	1.9	.01	4.7	10	.50	.04
5	.07	e.05	e.01	.14	.38	7.9	1.2	.00	2.0	.64	.38	.02
6	.07	e.09	e.00	e.14	.34	3.4	.97	.00	8.1	.26	.28	.01
7	.06	e.17	e.00	e.06	.30	2.4	.82	.00	10	.19	.21	.01
8	.06	.26	e.00	e.05	.27	1.7	.70	.00	1.5	37	.16	.02
9	.06	.36	e.01	e.13	.75	1.2	.60	.00	.68	227	.13	.01
10	.06	.73	e.03	.16	3.0	.95	.55	.00	.41	2.2	14	.01
11	.06	1.0	e.08	.17	1.2	.75	.52	.00	.31	.96	11	.00
12	.06	.74	.20	.19	.70	.70	.48	.00	.25	.58	2.4	.00
13	.06	.61	.25	e.15	.49	1.4	.43	.00	.22	.40	1.0	.00
14	.05	.50	3.1	e.12	1.5	1.2	.37	.00	.20	.28	.69	.00
15	e.06	e.33	2.6	e.10	9.0	.99	.34	.00	1.4	.21	.51	.00
16	e.09	e.24	20	e.14	17	3.3	.30	.00	2.1	.16	.37	.00
17	e.20	e.16	9.2	e.26	7.4	3.3	.28	.00	.29	.13	.34	.00
18	e.13	e.11	2.2	.39	3.0	2.0	.26	.00	.20	.21	.24	.00
19	e.08	e.08	1.5	7.3	1.8	1.4	.23	4.2	.16	.17	.21	.00
20	e.06	e.05	.67	3.4	1.5	1.2	.25	.15	.12	.16	.18	.01
21	e.15	e.04	.38	1.5	1.4	15	.24	.00	.11	.16	.13	.00
22	e.21	e.02	e.20	.81	1.1	4.4	.24	8.0	.11	8.4	.12	.00
23	e.08	e.04	e.14	.52	.90	2.7	.24	.85	.10	1.4	.14	.00
24	e.05	e.10	e.09	.53	1.1	2.0	.21	.89	.09	.69	.14	.00
25	e.02	e.13	e.06	.74	7.4	1.3	.19	.84	.09	.43	.11	.00
26	e.01	e.09	e.03	.44	2.9	1.0	.17	.43	.09	3.1	.08	.00
27	e.01	e.06	e.02	.55	1.7	.78	.14	.36	.06	1.3	.22	.00
28	e.01	e.05	e.02	.54	1.1	.66	.11	.31	.02	3.0	.13	.00
29	e.01	e.03	e.01	2.8	---	.57	.08	.24	.00	19	.12	.00
30	e.01	e.02	e.01	7.2	---	.52	.07	.19	.00	4.4	.09	.00
31	e.00	---	e.00	2.8	---	.48	---	.16	---	1.4	.08	---
TOTAL	2.29	6.11	40.84	31.54	69.94	82.98	16.79	16.76	42.71	323.83	36.01	0.30
MEAN	.074	.20	1.32	1.02	2.50	2.68	.56	.54	1.42	10.4	1.16	.010
MAX	.21	1.0	20	7.3	17	18	2.5	8.0	10	227	14	.07
MIN	.00	.00	.00	.01	.27	.45	.07	.00	.00	.00	.08	.00

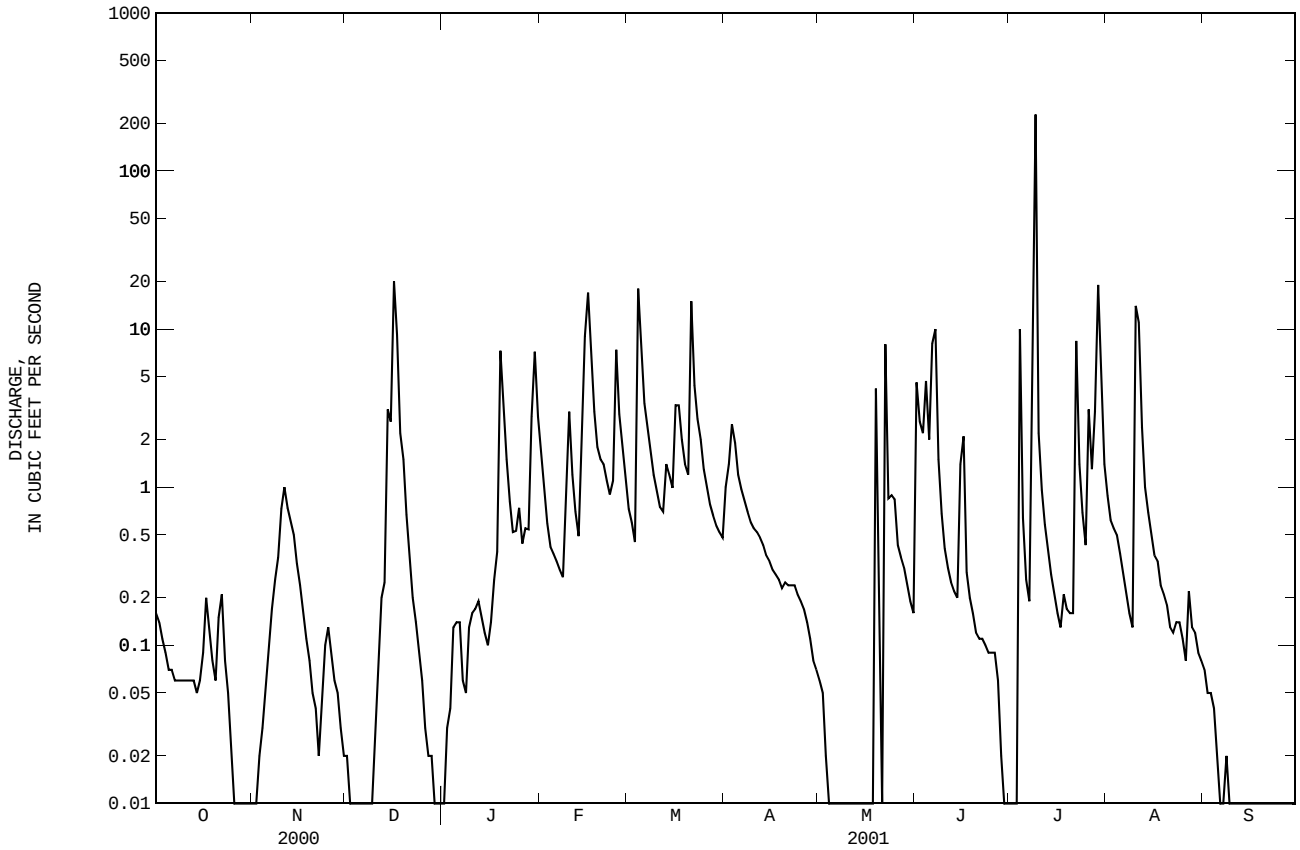
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

MEAN	.046	.28	1.04	2.07	4.58	3.64	1.81	1.31	1.42	2.46	.47	.24
MAX	.13	.92	2.80	3.42	11.4	8.93	4.05	3.45	4.28	10.4	1.16	1.06
(WY)	1997	1997	1997	1998	2000	1997	1998	1998	1997	2001	2001	1996
MIN	.009	.037	.31	.29	1.57	2.07	.49	.14	.046	.003	.005	.000
(WY)	1998	1999	1998	2000	1999	1998	1999	1999	2000	1999	1999	1999

03250310 ROCK LICK CREEK ABOVE UNNAMED TRIBUTARY NEAR SHARKEY, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL TOTAL	603.70		670.10			
ANNUAL MEAN	1.65		1.84		1.57	
HIGHEST ANNUAL MEAN					2.24	1997
LOWEST ANNUAL MEAN					.65	1999
HIGHEST DAILY MEAN	199	Feb 19	227	Jul 9	227	Jul 9 2001
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 31	.00	Sep 15 1997
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 8	.00	May 5	.00	Sep 15 1997
MAXIMUM PEAK FLOW			916	Jul 8	916	Jul 8 2001
MAXIMUM PEAK STAGE			6.51	Jul 8	6.51	Jul 8 2001
10 PERCENT EXCEEDS	2.4		2.8		2.7	
50 PERCENT EXCEEDS	.17		.20		.30	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated



03250322 ROCK LICK CREEK AT HIGHWAY 158 NEAR SHARKEY, KY

LOCATION.--Lat 38°14'50", long 83°35'22", Fleming County, Hydrologic Unit 05100101, on downstream side of bridge, 0.53 miles downstream from Drip Spring, 1.1 miles above mouth, and 1.9 miles northwest of Sharkey.

DRAINAGE AREA.--4.2 mi^2

PERIOD OF RECORD.--October 1996 to current year.

GAGE.--Water-stage recorder. Datum of gage is 645.451 ft above NGVD of 1929.

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.94	.01	.03	e.03	6.1	4.4	4.4	.51	35	.00	e5.6	.58
2	.71	.01	.03	e.03	4.8	4.1	4.6	.48	18	.00	e4.5	.27
3	.58	.03	.01	e.02	3.9	3.6	6.6	.45	14	.00	e3.8	.22
4	.47	.01	.01	e.02	3.4	62	5.3	.41	18	59	3.2	.21
5	.40	.00	.02	e.02	3.3	27	4.2	.33	11	4.7	2.6	.13
6	.35	.00	.00	1.2	3.0	11	3.8	.28	33	1.4	2.1	.10
7	.30	.06	.01	1.2	2.7	7.3	3.4	.24	28	1.1	1.7	.08
8	.25	.14	.00	1.1	2.4	5.7	2.9	.49	9.1	215	1.5	.06
9	.25	2.1	.00	e.39	2.4	4.6	2.6	.28	5.0	160	1.4	.03
10	.22	.99	.02	e.31	6.6	3.9	2.5	.20	3.3	11	192	.03
11	.19	.82	.05	e.25	4.2	3.4	2.3	.16	2.3	5.0	36	.03
12	.17	.66	.05	e.21	3.4	3.6	2.1	.30	1.7	3.4	9.9	.00
13	.15	.48	.79	e.18	3.1	4.9	1.9	.14	1.4	2.6	5.1	.00
14	.13	.35	5.0	1.1	4.3	4.0	1.7	.09	1.5	2.1	3.5	.00
15	.11	.25	2.5	.93	24	3.7	1.6	.07	2.9	1.7	2.8	.00
16	.11	.21	118	e.60	52	8.0	1.5	.05	5.2	1.4	2.3	.00
17	.19	.17	36	e.47	26	8.2	1.4	.84	1.2	1.4	2.4	.00
18	.61	.13	6.5	1.2	9.9	5.3	1.4	1.9	.63	3.4	1.7	.00
19	.20	.12	4.3	20	7.2	4.3	1.2	19	.40	1.6	1.5	.11
20	.14	.09	e2.1	9.8	5.8	4.4	1.8	4.3	.26	1.3	1.2	1.9
21	.16	.06	e1.4	e6.1	4.7	49	1.3	3.8	.36	1.2	.97	.08
22	.76	.06	e.74	e4.8	4.4	15	1.2	29	.71	31	.79	.00
23	.39	.06	e.44	e4.1	3.8	9.0	1.1	8.0	.26	6.8	1.6	.00
24	.14	.05	e.26	3.7	3.7	7.0	1.0	6.5	.17	3.7	1.2	.27
25	.16	.38	e.14	3.9	20	5.7	.91	5.4	.10	2.7	.66	.09
26	.18	.21	e.10	3.3	8.7	4.8	.83	3.1	.19	12	.52	.00
27	.14	.20	e.08	3.3	6.2	4.2	.76	3.2	.13	5.1	2.6	.00
28	.09	.10	e.06	3.3	5.2	3.8	.68	2.1	.00	9.3	.73	.00
29	.06	.06	e.05	7.1	---	3.5	.57	1.5	.00	57	.62	.00
30	.05	.03	e.04	22	---	3.2	.52	1.1	.00	14	.48	.00
31	.03	---	e.04	8.5	---	3.1	---	.86	---	e6.5	.40	---
TOTAL	8.63	7.84	178.77	109.16	235.2	291.7	66.07	95.08	193.81	625.40	295.37	4.19
MEAN	.28	.26	5.77	3.52	8.40	9.41	2.20	3.07	6.46	20.2	9.53	.14
MAX	.94	2.1	118	22	52	62	6.6	29	35	215	192	1.9
MIN	.03	.00	.00	.02	2.4	3.1	.52	.05	.00	.00	.40	.00

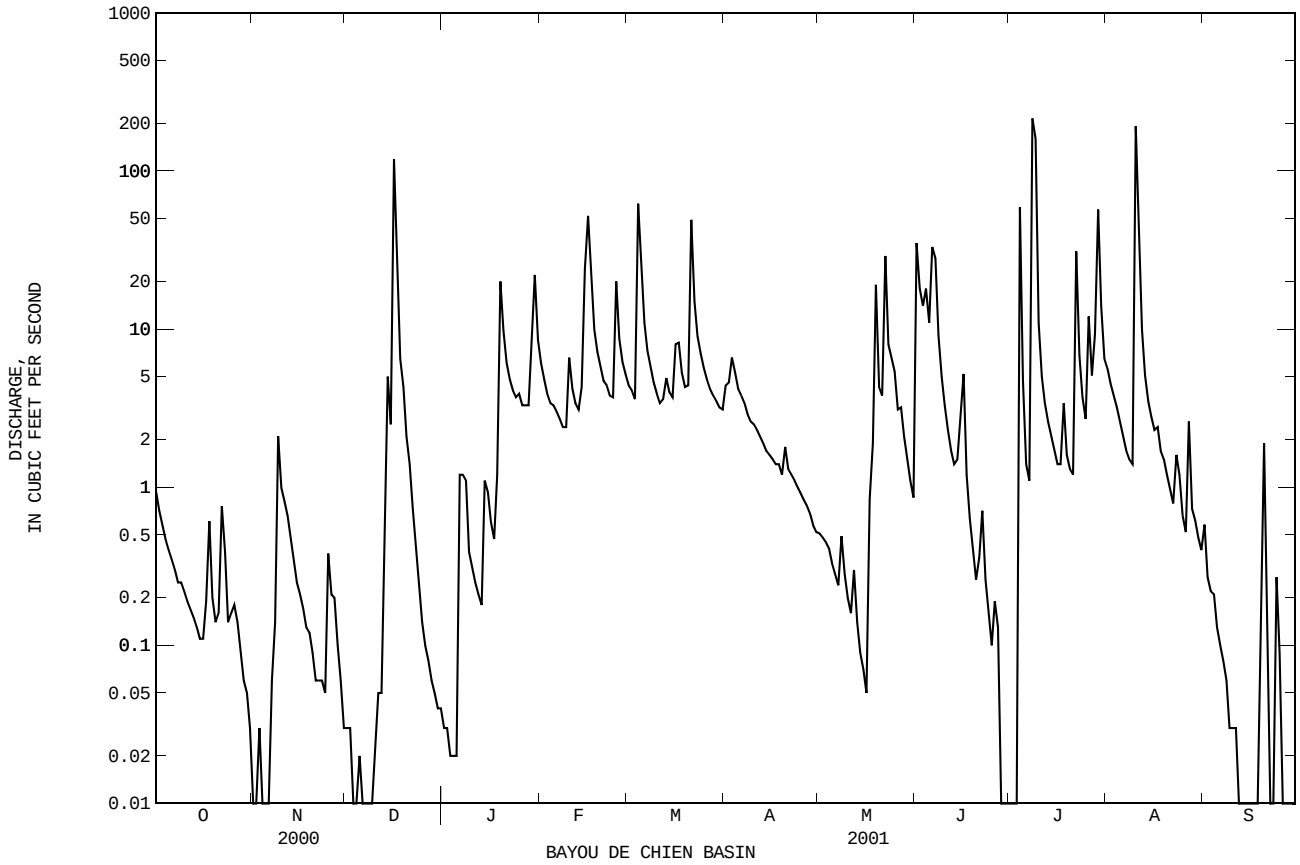
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	.19	1.27	3.97	8.64	12.8	9.64	5.91	4.85	5.27	5.90	2.41	.35
MAX	.33	4.79	10.0	14.9	28.6	17.5	16.2	13.9	15.3	20.2	9.53	1.37
(WY)	1997	1997	1997	1998	2000	1997	1998	1998	1997	2001	2001	2000
MIN	.027	.14	.61	.88	6.37	5.77	1.39	.31	.11	.000	.054	.000
(WY)	2000	2000	2000	2000	1999	2000	1999	1999	1999	1999	1999	1999

03250322 ROCK LICK CREEK AT HIGHWAY 158 NEAR SHARKEY, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL TOTAL	1582.67		2111.22			
ANNUAL MEAN	4.32		5.78		5.06	
HIGHEST ANNUAL MEAN					6.55	1998
LOWEST ANNUAL MEAN					2.65	1999
HIGHEST DAILY MEAN	505	Feb 19	215	Jul 8	505	Feb 19 2000
LOWEST DAILY MEAN	.00	Jul 18	.00	Nov 5	.00	Sep 21 1997
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 25	.00	Sep 12	.00	Sep 21 1997
MAXIMUM PEAK FLOW			3190	Jul 8	3190	Jul 8 2001
MAXIMUM PEAK STAGE			8.05	Jul 8	10.71	Mar 2 1997
10 PERCENT EXCEEDS	6.0		9.2		9.3	
50 PERCENT EXCEEDS	.39		1.2		1.0	
90 PERCENT EXCEEDS	.02		.03		.00	

e Estimated



03251200 NORTH FORK LICKING RIVER NEAR MOUNT OLIVET, KY

LOCATION.--Lat 38°35'41", long 84°01'13", Bracken County, Hydrologic Unit 05100101, on right bank, downstream side of bridge on State Highway 875, 4 mi northeast of Mt. Olivet, and at mile 26.1.

DRAINAGE AREA.--226 mi^2

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

GAGE.--Water-stage recorder. Datum of gage is 622.46 ft above sea level.

REMARKS.--Records fair except for periods of estimated record, which are poor.

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

PEAKS ABOVE BASE.--Peak discharges above base of 5,000 ft^3/s and maximum*.

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)

No peak greater than base discharge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	6.3	e25	e70	679	286	230	59	74	3.5	147	191
2	107	6.2	e23	e65	429	245	206	59	180	3.1	85	18
3	81	6.9	e21	e61	318	211	175	57	145	2.5	983	39
4	64	7.4	e20	e58	256	642	149	54	140	2.7	686	29
5	50	7.2	e19	e56	221	1660	130	53	152	2.7	277	13
6	102	7.3	e18	e54	193	1250	115	52	133	2.4	147	7.9
7	82	7.1	e17	e52	170	563	170	50	145	2.4	106	4.9
8	67	7.4	e16	e50	150	400	147	51	138	294	65	2.9
9	54	69	e15	e48	150	317	124	56	109	1630	47	2.2
10	44	176	e14	e47	539	261	105	53	76	697	35	2.1
11	35	174	e14	e46	566	222	93	51	57	224	30	1.6
12	30	127	e13	e45	371	196	86	51	44	97	1910	1.3
13	25	85	14	e44	279	223	81	52	33	53	2350	1.1
14	21	61	283	e43	257	212	78	50	26	32	736	.79
15	16	44	479	e42	627	212	76	49	21	20	143	.67
16	13	33	1960	e41	1450	185	75	46	17	13	62	.65
17	11	26	4150	e40	2390	182	73	48	23	11	33	.57
18	9.8	24	4400	60	1740	182	72	64	37	120	21	.53
19	9.6	21	950	298	639	171	71	79	30	525	14	.46
20	12	18	400	695	448	265	71	130	17	206	10	.44
21	12	17	278	620	345	1390	71	194	11	139	7.5	.43
22	11	15	230	409	286	1660	69	291	9.7	63	6.7	.38
23	11	14	e190	408	249	772	68	350	7.6	39	7.0	.33
24	12	13	e160	339	232	474	67	216	6.1	142	6.0	.37
25	13	15	e140	267	539	351	65	157	5.3	83	4.1	.32
26	17	23	e120	217	724	282	64	133	4.4	701	3.9	.30
27	16	46	e110	233	496	235	62	116	3.8	565	12	.29
28	16	43	e99	180	352	201	61	101	3.7	241	4.3	.31
29	42	32	e90	213	---	179	59	89	4.3	509	3.3	.33
30	16	28	e80	1180	---	161	58	82	4.1	478	7.4	.35
31	7.9	---	e74	1510	---	152	---	77	---	264	8.7	---
TOTAL	1141.3	1159.8	14422	7491	15095	13742	2971	2970	1657.0	7165.3	7957.9	321.52
MEAN	36.8	38.7	465	242	539	443	99.0	95.8	55.2	231	257	10.7
MAX	134	176	4400	1510	2390	1660	230	350	180	1630	2350	191
MIN	7.9	6.2	13	40	150	152	58	46	3.7	2.4	3.3	.29
CFSM	.16	.17	2.06	1.07	2.39	1.96	.44	.42	.24	1.02	1.14	.05
IN.	.19	.19	2.37	1.23	2.48	2.26	.49	.49	.27	1.18	1.31	.05

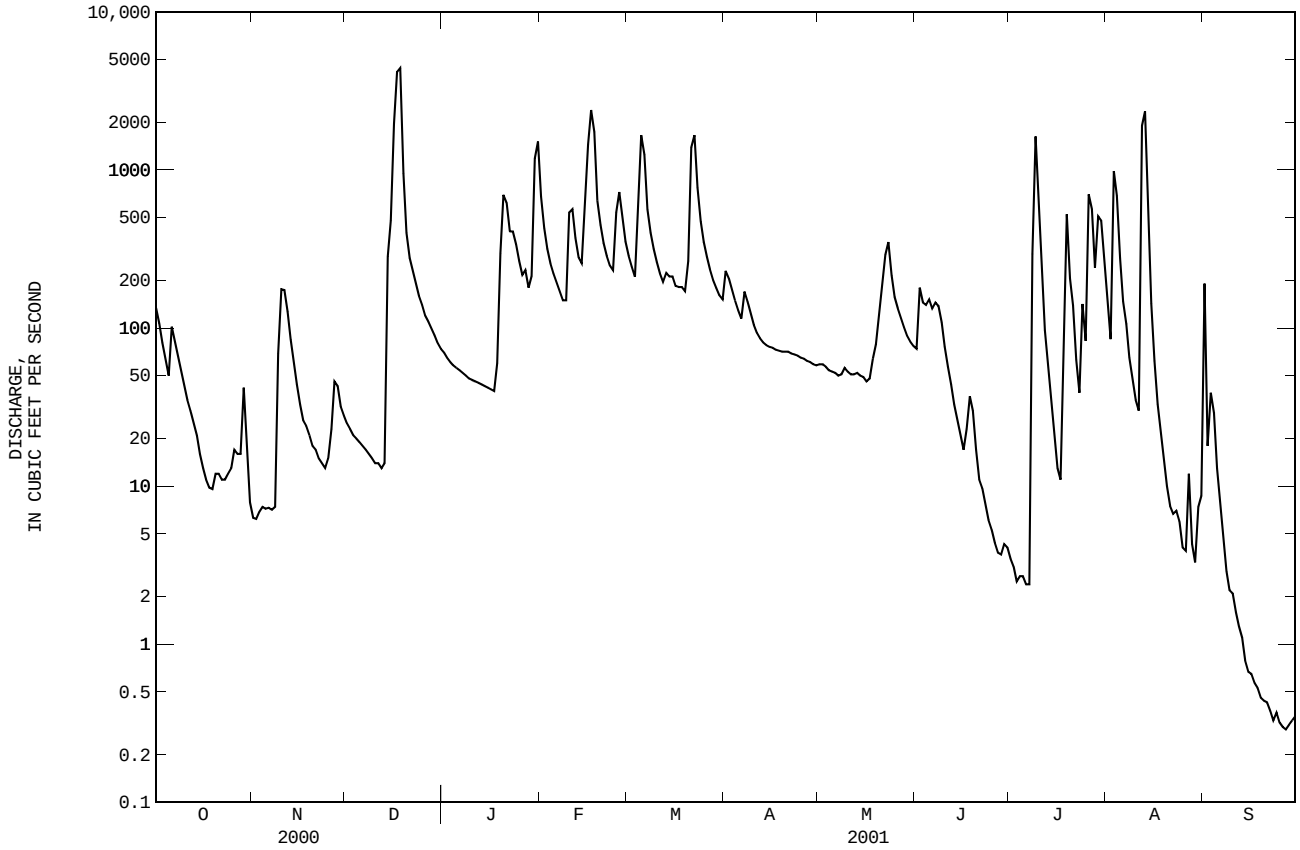
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2001, BY WATER YEAR (WY)

MEAN	12.0	108	323	603	545	687	335	420	264	140	76.7	44.1
MAX	36.8	454	857	1165	827	1796	676	1524	779	296	257	324
(WY)	2001	1994	1997	1994	1998	1997	1994	1996	1998	1992	2001	2000
MIN	.014	.008	15.0	152	284	228	73.2	18.9	1.34	.20	1.20	.057
(WY)	2000	2000	2000	2000	1995	1998	1999	1999	1999	1999	1999	1999

03251200 NORTH FORK LICKING RIVER NEAR MOUNT OLIVET, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1991 - 2001	
ANNUAL TOTAL	93521.02		76093.82			
ANNUAL MEAN	256		208		298	
HIGHEST ANNUAL MEAN					440	1997
LOWEST ANNUAL MEAN					175	1999
HIGHEST DAILY MEAN	7820	Feb 19	4400	Dec 18	12400	Mar 2 1997
LOWEST DAILY MEAN	.16	Jan 1	.29	Sep 27	.00	Oct 10 1997
ANNUAL SEVEN-DAY MINIMUM	1.5	Jan 30	.32	Sep 23	.00	Oct 17 1997
MAXIMUM PEAK FLOW			4970	Dec 18	13500	Mar 2 1997
MAXIMUM PEAK STAGE			19.37	Dec 18	34.71	Mar 2 1997
INSTANTANEOUS LOW FLOW			.28	Sep 25	.24	Oct 7 1994
ANNUAL RUNOFF (CFSM)	1.13		.92		1.32	
ANNUAL RUNOFF (INCHES)	15.39		12.53		17.90	
10 PERCENT EXCEEDS	581		501		733	
50 PERCENT EXCEEDS	54		64		63	
90 PERCENT EXCEEDS	4.6		4.2		.95	

e Estimated



03251500 LICKING RIVER AT MCKINNEYSBURG, KY

LOCATION.--Lat 38°35 '52", long 84°16'00", Pendleton County, Hydrologic Unit 05100101, on right bank at downstream side of highway bridge at McKinneysburg, 6.5 mi southeast of Falmouth, 9.0 mi upstream from Blanket Creek, 12.9 mi upstream from South Fork, and at mile 64.6.

DRAINAGE AREA.--2,326 mi^2.

PERIOD OF RECORD.--July 1924 to August 1926, October 1938 to September 1994, September 2000 to current year. Monthly discharge only for October, November 1938, published in WSP 1305.

REVISED RECORDS.--WSP 1705: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 520.83 ft above NGVD of 1929. July 23, 1924 to August 9, 1926, nonrecording gage at same site, datum unknown. Nov. 18, 1983 to June 30, 1939, nonrecording gage at present site an datum. Oct. 1, 1949 to Sept. 30, 1957, auxiliary water-stage recorder 4.0 mi downstream.

REMARKS.-- September 2000: Records fair. 2001: Records fair except for those estimated which are poor. Flow requlated since December 1973 by Cave Run Lake (station 03249498). Specific conductance and temperature measurements made in conjunction with discharge measuremenst published in the miscellaneous water-quality data section.

COOPERATION.--National Streamflow Information Program.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in January 1937 reached a stage of 47.8 ft from floodmarks. Flood of March 1997 reached a stage of 55.21 feet from floodmarks. Discharge for the March 1997 flood was 74,000 cfs from rating extension.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

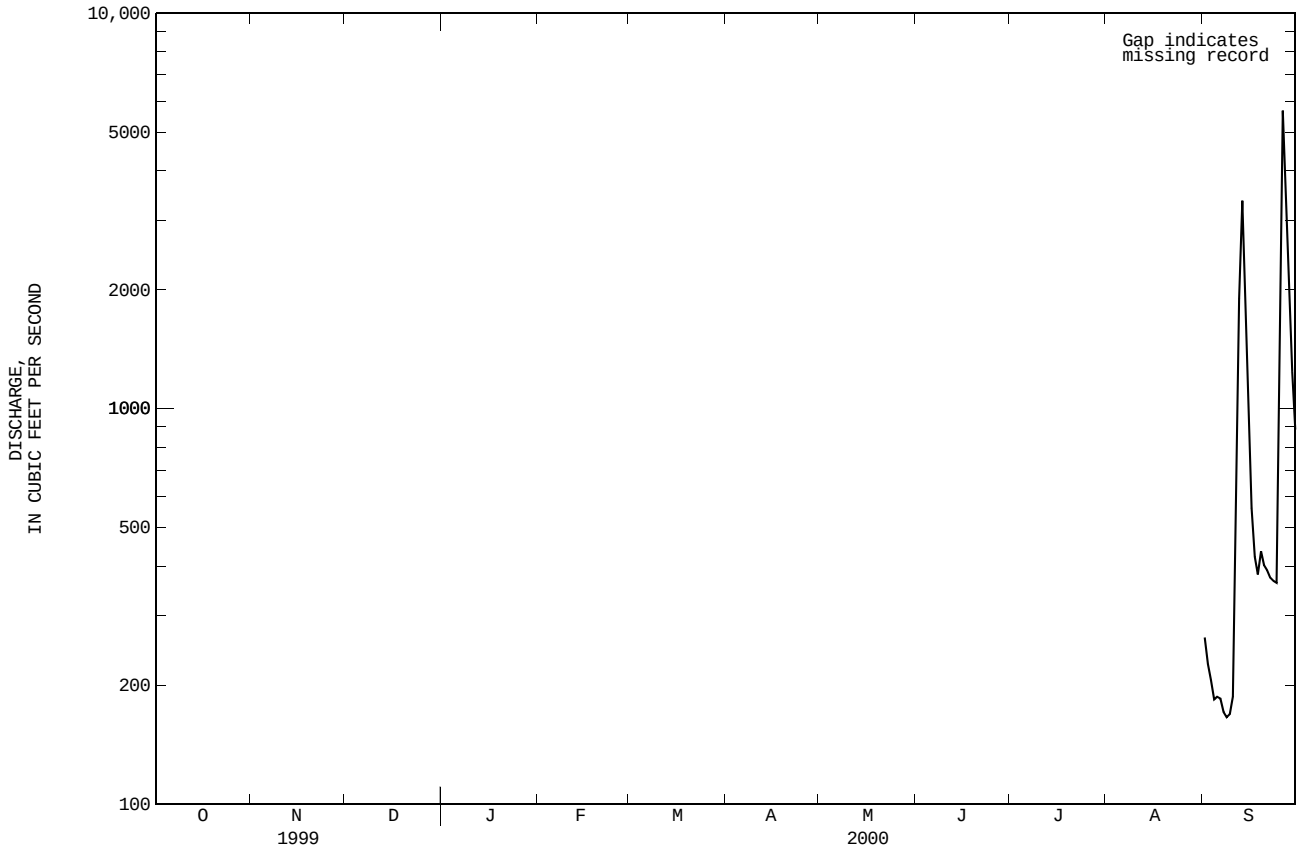
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	264
2	---	---	---	---	---	---	---	---	---	---	---	226
3	---	---	---	---	---	---	---	---	---	---	---	206
4	---	---	---	---	---	---	---	---	---	---	---	184
5	---	---	---	---	---	---	---	---	---	---	---	187
6	---	---	---	---	---	---	---	---	---	---	---	185
7	---	---	---	---	---	---	---	---	---	---	---	171
8	---	---	---	---	---	---	---	---	---	---	---	166
9	---	---	---	---	---	---	---	---	---	---	---	169
10	---	---	---	---	---	---	---	---	---	---	---	187
11	---	---	---	---	---	---	---	---	---	---	---	385
12	---	---	---	---	---	---	---	---	---	---	---	1900
13	---	---	---	---	---	---	---	---	---	---	---	3360
14	---	---	---	---	---	---	---	---	---	---	---	1820
15	---	---	---	---	---	---	---	---	---	---	---	903
16	---	---	---	---	---	---	---	---	---	---	---	561
17	---	---	---	---	---	---	---	---	---	---	---	422
18	---	---	---	---	---	---	---	---	---	---	---	381
19	---	---	---	---	---	---	---	---	---	---	---	436
20	---	---	---	---	---	---	---	---	---	---	---	402
21	---	---	---	---	---	---	---	---	---	---	---	390
22	---	---	---	---	---	---	---	---	---	---	---	374
23	---	---	---	---	---	---	---	---	---	---	---	367
24	---	---	---	---	---	---	---	---	---	---	---	363
25	---	---	---	---	---	---	---	---	---	---	---	1160
26	---	---	---	---	---	---	---	---	---	---	---	5680
27	---	---	---	---	---	---	---	---	---	---	---	3800
28	---	---	---	---	---	---	---	---	---	---	---	2090
29	---	---	---	---	---	---	---	---	---	---	---	1240
30	---	---	---	---	---	---	---	---	---	---	---	886
31	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	28865
MEAN	---	---	---	---	---	---	---	---	---	---	---	962
MAX	---	---	---	---	---	---	---	---	---	---	---	5680
MIN	---	---	---	---	---	---	---	---	---	---	---	166

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2000, BY WATER YEAR (WY)

MEAN	1208	2273	4555	4964	5701	6187	4636	3201	2002	1126	935	1171
MAX	4877	5227	13020	10430	13960	10920	9136	11130	5339	5783	3537	8088
(WY)	1976	1987	1979	1974	1989	1994	1975	1983	1974	1979	1979	1979
MIN	121	228	859	275	1837	1006	465	293	100	164	69.9	144
(WY)	1974	1988	1981	1981	1977	1983	1986	1976	1988	1984	1983	1987

03251500 LICKING RIVER AT MCKINNEYSBURG, KY--Continued

SUMMARY STATISTICS	FOR 2000 WATER YEAR		WATER YEARS 1974 - 2000	
ANNUAL MEAN			3152	
HIGHEST ANNUAL MEAN			5802	1979
LOWEST ANNUAL MEAN			1528	1988
HIGHEST DAILY MEAN	5680	Sep 26	43100	Feb 16 1989
LOWEST DAILY MEAN	166	Sep 8	54	Sep 13 1976
ANNUAL SEVEN-DAY MINIMUM	178	Sep 4	57	Jul 6 1994
MAXIMUM PEAK FLOW			59100	Mar 10 1964
MAXIMUM PEAK STAGE			50.26	Mar 10 1964
INSTANTANEOUS LOW FLOW			54	Sep 13 1976
10 PERCENT EXCEEDS	3230		7920	
50 PERCENT EXCEEDS	388		1300	
90 PERCENT EXCEEDS	172		189	



03251500 LICKING RIVER AT MCKINNEYSBURG, KY--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	689	325	452	e600	5550	1820	1360	290	691	224	6480	325
2	582	324	363	e540	3600	1520	1390	283	1820	212	4150	514
3	516	324	316	453	2720	3060	1330	281	3400	201	12100	372
4	467	319	255	e410	2280	5880	1570	283	2110	568	7400	339
5	432	314	232	e380	2030	13000	1830	314	2020	1690	4320	294
6	494	311	201	e350	1640	12800	1590	294	3090	2570	3140	245
7	495	315	172	e320	1370	9050	1460	237	4100	2550	3320	210
8	427	321	165	307	1280	5680	1500	217	4010	e2300	3420	184
9	387	373	162	287	1210	4560	1400	212	4000	e10000	3320	167
10	371	626	162	e270	2360	4350	1310	199	3200	e9400	3180	162
11	364	629	160	e260	2000	4120	1250	190	3310	e9000	5970	144
12	358	665	148	e245	1810	3370	1230	200	2860	3850	11800	132
13	350	593	138	e240	1560	2670	1180	189	1900	3430	8760	124
14	321	501	622	e230	1450	2370	1100	179	1270	3430	3490	110
15	249	465	1030	e220	3190	2140	944	169	840	3260	1350	83
16	313	427	7940	e210	6810	2060	705	161	570	2620	929	69
17	322	391	20200	e205	14600	2090	643	e150	562	1730	725	69
18	321	372	15400	e200	14000	2310	612	e140	1300	1120	598	163
19	320	360	11100	838	8790	1970	589	e640	811	1170	545	229
20	325	349	3820	2510	4900	1660	570	e3200	582	1110	492	236
21	329	340	3050	3780	4900	7830	568	e4500	483	920	457	297
22	328	442	3180	3260	5250	9810	566	6140	454	1290	424	269
23	340	1120	3100	2960	5330	8840	559	7410	370	1260	422	251
24	348	1150	3010	3030	5100	4800	541	6710	306	2110	422	259
25	357	1180	2910	3050	5950	2990	507	4470	297	1610	390	263
26	343	1220	2800	2870	5950	2290	418	3530	285	2660	334	259
27	334	1220	2530	2860	4970	1910	349	3120	260	3190	274	249
28	332	1230	1720	2680	2980	1670	327	2370	240	4800	259	244
29	331	1080	1170	2240	---	1540	310	1840	245	7170	234	245
30	333	681	872	5610	---	1440	298	1430	231	11800	226	172
31	344	---	e720	6940	---	1390	---	1010	---	11200	234	---
TOTAL	11822	17967	88100	48355	123580	130990	28006	50358	45617	108445	89165	6679
MEAN	381	599	2842	1560	4414	4225	934	1624	1521	3498	2876	223
MAX	689	1230	20200	6940	14600	13000	1830	7410	4100	11800	12100	514
MIN	249	311	138	200	1210	1390	298	140	231	201	226	69

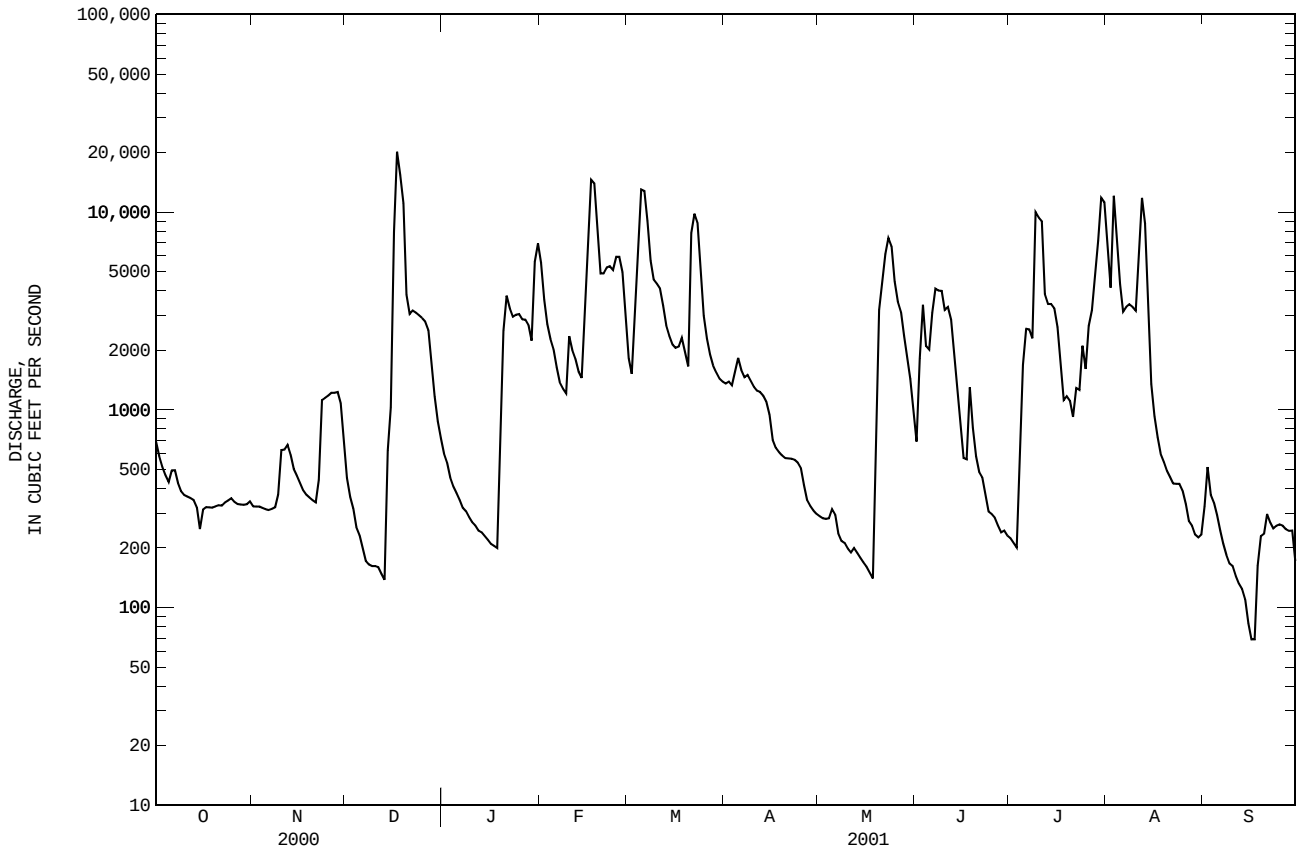
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2001, BY WATER YEAR (WY)

MEAN	1170	2197	4477	4809	5643	6098	4468	3129	1980	1234	1024	1130
MAX	4877	5227	13020	10430	13960	10920	9136	11130	5339	5783	3537	8088
(WY)	1976	1987	1979	1974	1989	1994	1975	1983	1974	1979	1979	1979
MIN	121	228	859	275	1837	1006	465	293	100	164	69.9	144
(WY)	1974	1988	1981	1981	1977	1983	1986	1976	1988	1984	1983	1987

03251500 LICKING RIVER AT MCKINNEYSBURG, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1974 - 2001	
ANNUAL TOTAL			749084			
ANNUAL MEAN			2052		3102	
HIGHEST ANNUAL MEAN					5802	1979
LOWEST ANNUAL MEAN					1528	1988
HIGHEST DAILY MEAN	20200	Dec 17	20200	Dec 17	43100	Feb 16 1989
LOWEST DAILY MEAN	138	Dec 13	69	Sep 16	54	Sep 13 1976
ANNUAL SEVEN-DAY MINIMUM	158	Dec 7	104	Sep 11	57	Jul 6 1994
MAXIMUM PEAK FLOW			21900	Dec 17	59100	Mar 10 1964
MAXIMUM PEAK STAGE			25.37	Dec 17	50.26	Mar 10 1964
INSTANTANEOUS LOW FLOW					54	Sep 13 1976
10 PERCENT EXCEEDS	2980		5420		7830	
50 PERCENT EXCEEDS	383		720		1280	
90 PERCENT EXCEEDS	186		215		190	

e Estimated



03252300 HINKSTON CREEK NEAR CARLISLE, KY

LOCATION.--Lat 38°14'33", long 84°03'10", Bourbon County, Hydrologic Unit 05100102, at upstream side bridge on State Highway 13, 0.5 mi upstream from Taylors Creek, 5.0 mi south of Carlisle, and at mile 29.0.

DRAINAGE AREA.--154 mi^2.

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

REVISED RECORDS.--WRD KY-93-1: Drainage area, WRD KY-99-1: Longitude.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 764.88 ft above NGVD of 1929.

REMARKS.-- Records fair except for discharges below 10ft^3/s and for those estimated, which are poor.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)

No peak greater than base discharge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	30	4.1	e29	e290	177	82	15	37	2.8	252	26
2	8.4	29	2.8	e28	203	148	82	14	309	2.5	156	31
3	5.6	29	2.3	e27	155	129	111	12	229	4.8	1050	20
4	3.8	32	2.0	e26	127	310	183	12	121	63	864	15
5	2.6	34	e1.9	e25	108	1470	157	10	199	256	286	12
6	2.2	34	e1.7	e24	92	706	130	9.0	189	100	161	9.7
7	1.9	34	e1.5	e24	78	353	115	8.1	834	46	113	8.1
8	1.5	35	e1.4	e24	67	241	97	8.0	867	49	83	7.3
9	1.6	e64	e1.3	e24	60	187	83	7.3	254	463	63	6.8
10	1.7	e94	e1.2	e25	244	150	75	8.6	137	281	73	6.7
11	2.0	e63	1.9	e26	191	129	81	9.1	91	118	1790	5.0
12	2.2	48	2.8	27	144	111	68	8.7	66	62	2450	4.3
13	2.4	32	3.6	28	116	113	56	7.0	51	41	399	4.0
14	4.9	20	26	29	100	123	48	6.6	40	30	167	3.8
15	12	12	73	31	214	104	44	6.8	32	22	116	3.7
16	17	8.8	e400	33	1090	95	41	6.4	28	16	83	3.9
17	20	6.0	e1720	35	1880	99	38	6.4	27	13	64	3.5
18	22	4.0	925	37	826	96	36	13	23	35	62	3.5
19	22	3.1	268	e256	381	84	33	464	16	97	52	3.7
20	22	2.3	152	383	258	87	32	452	12	88	42	167
21	22	2.0	120	271	192	1170	32	140	9.7	63	35	47
22	30	2.0	e80	162	153	1240	32	904	10	39	29	24
23	35	1.8	61	137	135	526	30	826	14	183	25	16
24	39	1.5	50	124	119	313	27	301	13	126	30	11
25	40	1.6	e42	e104	516	221	21	243	15	54	32	11
26	36	1.7	e40	e113	762	169	18	155	10	440	24	9.8
27	33	2.0	e38	e104	359	140	17	105	7.3	1010	20	8.4
28	32	2.5	e36	e95	234	120	16	84	5.7	586	18	9.1
29	33	4.3	e34	e108	---	105	15	66	4.4	2560	15	7.6
30	33	5.4	e32	e388	---	95	16	48	3.5	2170	14	6.7
31	32	---	e30	e428	---	86	---	39	---	736	12	---
MEAN	17.2	21.3	134	102	325	293	60.5	129	122	315	277	16.5
MAX	40	94	1720	428	1880	1470	183	904	867	2560	2450	167
MIN	1.5	1.5	1.2	24	60	84	15	6.4	3.5	2.5	12	3.5

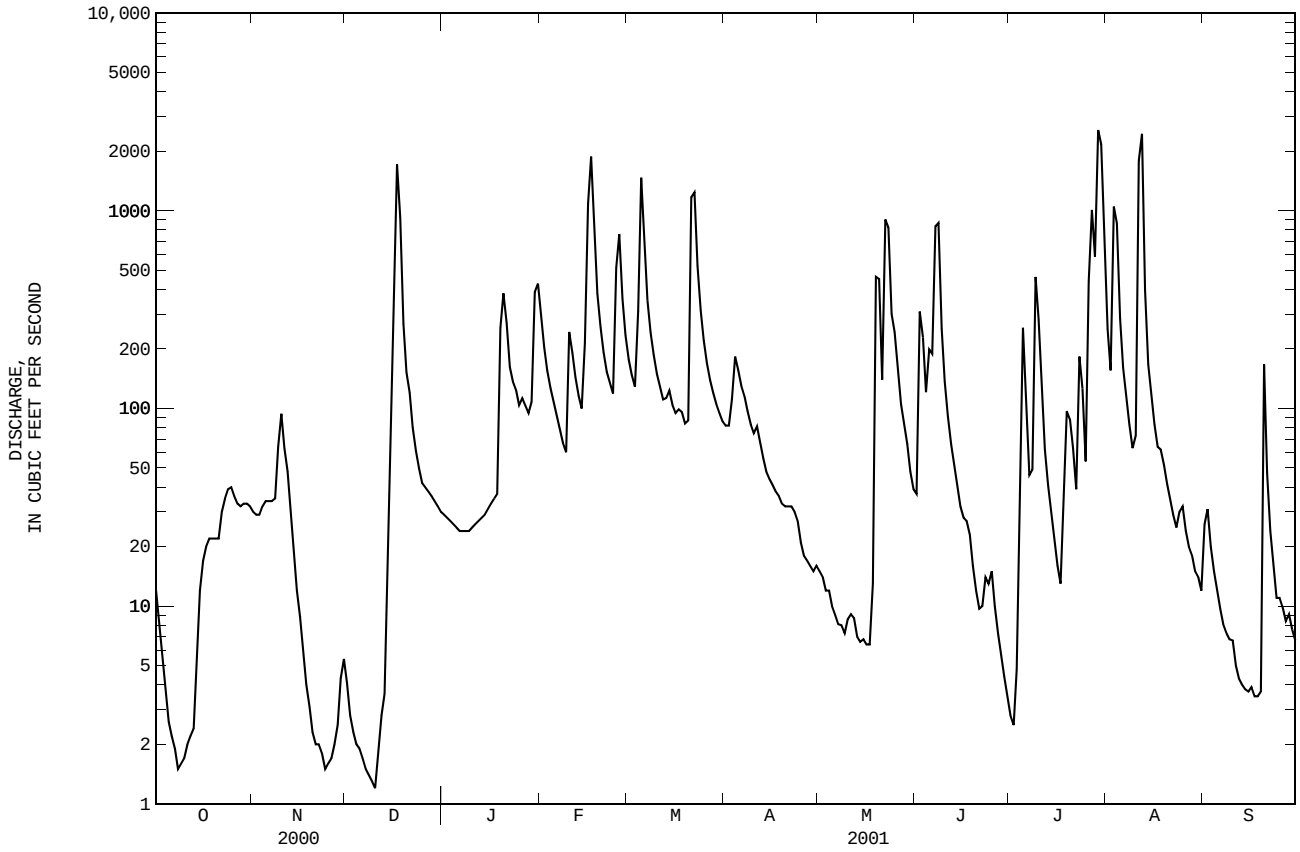
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2001, BY WATER YEAR (WY)

MEAN	19.4	85.3	184	390	335	478	177	269	160	86.4	71.2	13.9
MAX	48.2	302	453	675	526	1210	436	875	652	315	277	56.5
(WY)	1994	1994	1997	1994	1994	1997	1994	1996	1997	2001	2001	1996
MIN	1.33	3.10	9.99	35.3	168	240	40.4	17.7	14.5	8.92	4.29	.70
(WY)	1998	2000	2000	2000	1996	1998	1999	1999	1999	1999	1997	1999

03252300 HINKSTON CREEK NEAR CARLISLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1992 - 2001	
ANNUAL MEAN	90.1		151		189	
HIGHEST ANNUAL MEAN					304	1997
LOWEST ANNUAL MEAN					77.1	2000
HIGHEST DAILY MEAN	3500	Feb 19	2560	Jul 29	7520	Mar 2 1997
LOWEST DAILY MEAN	.45	Jan 1	1.2	Dec 10	.00	Aug 11 1999
ANNUAL SEVEN-DAY MINIMUM	.93	Sep 1	1.6	Dec 5	.00	Aug 11 1999
MAXIMUM PEAK FLOW			2900	Aug 12	7800	Mar 2 1997
MAXIMUM PEAK STAGE			19.46	Aug 12	37.00	Mar 2 1997
10 PERCENT EXCEEDS	187		355		444	
50 PERCENT EXCEEDS	23		36		49	
90 PERCENT EXCEEDS	1.7		3.7		2.5	

e Estimated



03253500 LICKING RIVER AT CATAWBA, KY

LOCATION.--Lat 38°42'31", long 84°18'38", Pendleton County, Hydrologic Unit 05100101, on left bank 1.0 mi southeast of Catawba, 1.5 mi upstream from Kincaid Creek, 2.3 mi north of Falmouth, and at mile 48.0.

DRAINAGE AREA.--3,300 mi^2.

PERIOD OF RECORD.--January 1914 to July 1920 (January 1914 to July 1915 and October 1917 to July 1920, gage heights only), July 1928 to current year. Published as "at Falmouth" 1914-16. Gage-height records collected in this vicinity since 1887 are published in reports of the National Weather Service.

REVISED RECORDS.--WSP 853: 1937. WSP 1003: 1943. WSP 1385: 1942. WSP 1705: Drainage.

GAGE.--Water-stage recorder. Datum of gage is 500.01 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Jan. 1, 1914 to July 31, 1916, nonrecording gage at site 3.8 mi upstream at datum 12.2 ft higher. July 14, 1916 to July 5, 1920, nonrecording gage at site 1.4 mi downstream at present datum.

REMARKS.--Records good except for those estimated, which are fair. Flow regulated since December 1973 by Cave Run Lake (station 03249498).

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	884	309	812	e800	8700	3330	1820	423	1070	324	9900	438
2	730	303	630	e720	5650	2570	2050	405	1800	302	5660	582
3	616	299	521	e680	4020	3480	1830	389	4130	277	16600	647
4	540	294	448	e620	3240	7260	2110	378	3180	274	20600	549
5	490	286	381	e580	2800	18500	2680	372	3460	1720	11100	485
6	483	278	334	e520	2340	18200	2610	378	15700	2590	5940	436
7	580	278	293	e480	1870	12900	2190	367	7840	3260	4840	402
8	565	278	256	e420	1680	8010	2140	336	7810	3030	4580	354
9	455	e300	230	e400	1570	6140	1920	306	6940	11500	4220	301
10	420	e540	217	e380	3340	5510	1730	284	4620	10900	3970	254
11	391	925	211	e440	3130	5130	1590	265	4130	10200	5380	221
12	369	866	206	453	3010	4370	1580	253	3530	5160	13100	196
13	352	829	196	431	2540	3480	1470	252	2530	3920	13100	177
14	337	781	361	413	2210	3130	1320	246	1710	3830	5790	159
15	312	e730	1550	405	4710	2810	1170	233	1180	3570	2220	147
16	268	e680	13700	402	9680	2730	960	217	962	3000	1380	132
17	268	e630	32300	412	22000	2740	888	201	816	2090	1080	120
18	276	e580	22100	418	20900	2880	841	209	1230	1810	987	110
19	276	e530	15000	605	13500	2640	805	847	1090	1430	910	167
20	273	e510	5960	2910	7410	2160	777	4270	895	2590	813	228
21	275	e490	3930	4880	6430	9960	755	6440	790	2290	728	234
22	280	e490	e3400	4890	6310	15700	740	7610	707	1980	679	281
23	282	e510	e2800	e3800	6210	14000	727	12200	635	6030	647	266
24	288	e550	e2400	e3200	5890	8110	708	10300	558	3650	621	291
25	297	e930	e2000	e2800	7180	5020	683	6530	489	2810	594	316
26	304	e1800	e1800	e2600	8370	3700	646	5060	444	5150	564	306
27	301	e2000	e1600	e2400	8640	2980	574	4270	411	10200	547	284
28	310	e1800	e1400	e2500	5460	2510	516	3300	376	8700	493	261
29	302	e1300	e1200	2840	---	2220	478	2480	348	12200	888	242
30	290	991	e1000	7160	---	2020	447	1930	333	19100	546	225
31	293	---	e900	9840	---	1920	---	1390	---	16100	425	---
TOTAL	12107	21087	118136	59399	178790	186110	38755	72141	79714	159987	138902	8811
MEAN	391	703	3811	1916	6385	6004	1292	2327	2657	5161	4481	294
MAX	884	2000	32300	9840	22000	18500	2680	12200	15700	19100	20600	647
MIN	268	278	196	380	1570	1920	447	201	333	274	425	110

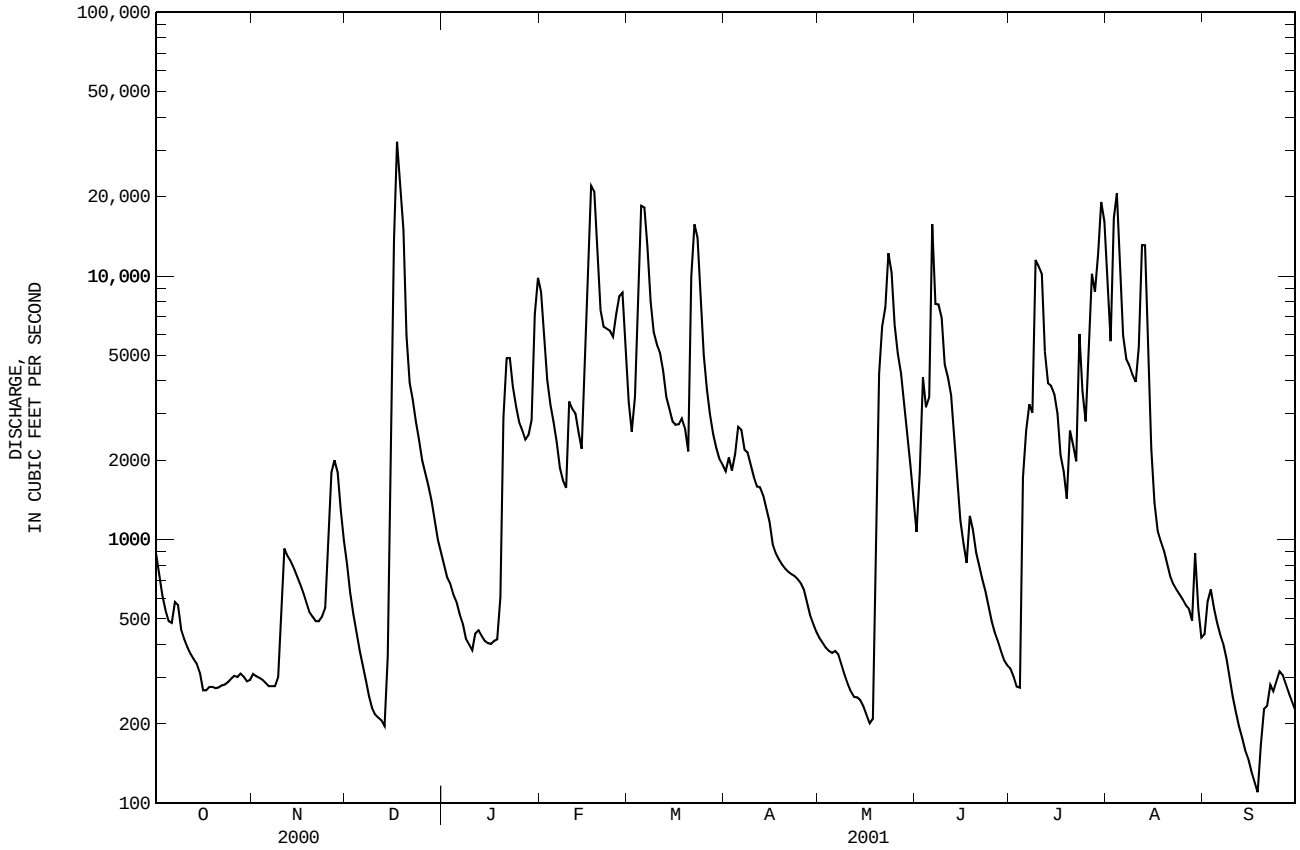
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2001, BY WATER YEAR (WY)

MEAN	1276	2609	5518	6597	7731	8355	5594	4762	3108	1762	1293	1350
MAX	7178	6516	18500	15110	21140	21310	11920	16660	11230	6962	4630	12860
(WY)	1976	1987	1979	1974	1989	1997	1975	1983	1997	1979	1974	1979
MIN	79.8	107	1008	420	2321	1247	666	342	101	86.0	68.4	51.5
(WY)	2000	2000	2000	1981	1977	1983	1986	1999	1999	1999	1999	1999

03253500 LICKING RIVER AT CATAWBA, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1974 - 2001	
ANNUAL TOTAL	1062003		1073939			
ANNUAL MEAN	2902		2942		4147	
HIGHEST ANNUAL MEAN					7730	1979
LOWEST ANNUAL MEAN					2006	1977
HIGHEST DAILY MEAN	66300	Feb 19	32300	Dec 17	104000	Mar 3 1997
LOWEST DAILY MEAN	114	Sep 9	110	Sep 18	25	Jul 8 1988
ANNUAL SEVEN-DAY MINIMUM	123	Sep 4	145	Sep 13	38	Jul 3 1988
MAXIMUM PEAK FLOW			37800	Dec 17	110000	Mar 3 1997
MAXIMUM PEAK STAGE			27.65	Dec 17	57.57	Mar 3 1997
INSTANTANEOUS LOW FLOW					2.5	Aug 5 1930
10 PERCENT EXCEEDS	5560		8050		10500	
50 PERCENT EXCEEDS	994		960		1620	
90 PERCENT EXCEEDS	294		276		232	

e Estimated



03254480 CRUISES CREEK AT HIGHWAY 17 NEAR PINER, KY

LOCATION.--Lat 38°50'40", long 84°31'56", Kenton County, Hydrologic Unit 05100101, at bridge on Highway 17, 0.6 mi downstream from Sawyers Fork, 0.9 mi north of Piner, and 7.8 mi upstream from the mouth.

DRAINAGE AREA.--18.0 mi^2

PERIOD OF RECORD.--December 2000 to September 30, 2001.

GAGE.--Water-stage recorder. Datum of gage is 656.926 ft above NGVD of 1929.

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

COOPERATION.--Northern Kentucky Sanitation District No. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	1.6	e1.6	28	11	5.7	.92	e11	.37	7.7	55
2	---	---	1.1	e1.5	18	9.9	4.7	.88	e6.0	.44	7.7	6.8
3	---	---	1.0	e1.3	12	8.2	3.8	.81	e3.0	.45	7.2	2.8
4	---	---	.87	e1.3	11	163	3.5	.71	e16	.29	8.1	1.6
5	---	---	.82	e1.2	9.0	74	3.3	.53	e11	.28	3.6	1.1
6	---	---	e.80	e1.1	7.9	33	3.7	.40	178	.34	2.5	.72
7	---	---	e.72	e1.1	6.6	23	4.8	.40	91	.67	2.1	.62
8	---	---	e.64	3.2	6.1	18	3.7	4.3	20	58	1.8	.64
9	---	---	e.60	e2.4	47	14	3.4	2.0	7.9	59	1.8	4.7
10	---	---	.71	e1.8	85	14	3.3	.93	4.5	13	2.1	6.6
11	---	---	1.4	e1.7	39	23	3.2	.57	3.0	9.9	1.8	1.7
12	---	---	18	e1.8	17	22	2.8	.86	2.3	1.9	3.2	.84
13	---	---	4.7	e5.2	14	9.1	2.4	1.1	8.6	.70	2.1	.53
14	---	---	25	e16	14	6.8	2.2	.64	5.9	.47	1.2	.47
15	---	---	12	e8.5	17	6.3	2.4	.41	1.7	.33	.80	.40
16	---	---	670	e4.9	65	7.3	2.6	.31	9.7	.23	.62	.32
17	---	---	136	4.0	50	6.1	2.2	.85	3.3	.17	.51	.29
18	---	---	e28	3.9	41	4.9	2.3	12	.93	228	.54	.33
19	---	---	e12	e13	34	4.7	2.1	10	.51	43	8.9	.99
20	---	---	e6.0	e15	16	4.9	7.5	3.3	1.1	17	2.8	2.3
21	---	---	e3.7	e6.8	12	8.7	4.2	1.8	1.7	10	1.5	1.2
22	---	---	e3.3	e5.7	11	7.0	2.1	9.5	1.1	86	1.1	1.3
23	---	---	e3.1	e4.7	9.6	5.8	1.8	3.9	.80	42	1.0	.77
24	---	---	e2.9	e3.7	8.5	5.4	1.8	12	.57	8.0	1.1	1.6
25	---	---	e2.7	e2.9	40	4.8	1.7	7.3	.38	4.5	1.3	2.2
26	---	---	e2.6	e2.6	21	4.5	1.3	6.2	.24	69	5.6	1.2
27	---	---	e2.5	e2.4	15	4.2	1.2	19	.18	16	6.2	.86
28	---	---	e2.2	e2.7	13	4.1	1.2	8.5	.18	191	2.5	.64
29	---	---	e2.0	e4.7	---	4.6	1.0	2.9	1.9	73	1.6	.53
30	---	---	e1.8	158	---	5.3	.90	e1.6	.94	27	1.4	.41
31	---	---	e1.7	67	---	4.7	---	e4.0	---	12	82	---
MEAN	---	---	30.7	11.3	23.8	16.8	2.89	3.83	13.1	31.4	5.56	3.32
MAX	---	---	670	158	85	163	7.5	19	178	228	82	55
MIN	---	---	.60	1.1	6.1	4.1	.90	.31	.18	.17	.51	.29
MED	---	---	2.5	3.2	16	7.0	2.5	1.6	2.7	9.9	2.1	.93
AC-FT	---	---	1890	698	1320	1040	172	235	780	1930	342	197

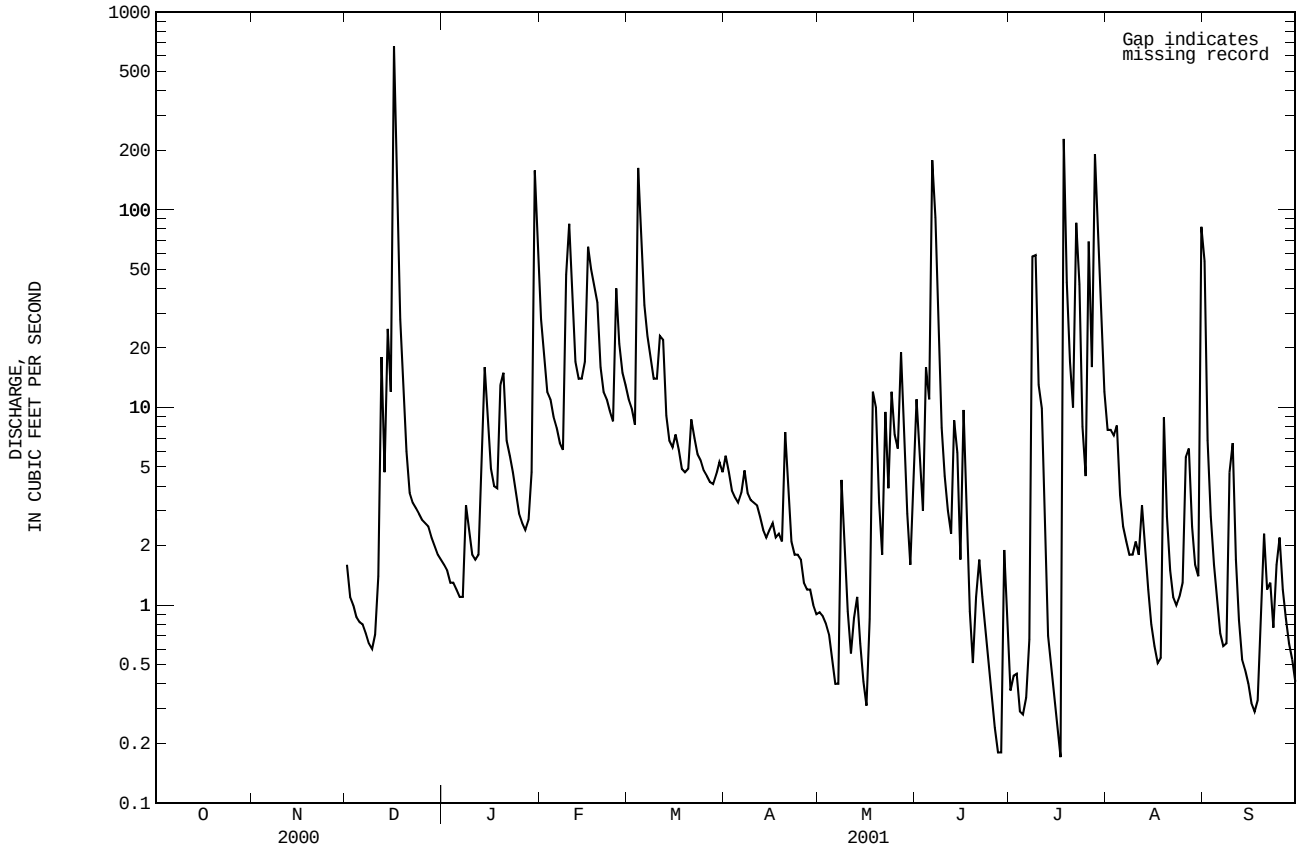
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2001, BY WATER YEAR (WY)

MEAN	---	---	30.7	11.3	23.8	16.8	2.89	3.83	13.1	31.4	5.56	3.32
MAX	---	---	30.7	11.3	23.8	16.8	2.89	3.83	13.1	31.4	5.56	3.32
(WY)	---	---	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
MIN	---	---	30.7	11.3	23.8	16.8	2.89	3.83	13.1	31.4	5.56	3.32
(WY)	---	---	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

03254480 CRUISES CREEK AT HIGHWAY 17 NEAR PINER, KY--Continued

SUMMARY STATISTICS	FOR 2001 WATER YEAR	
HIGHEST DAILY MEAN	670	Dec 16
LOWEST DAILY MEAN	.17	Jul 17
ANNUAL SEVEN-DAY MINIMUM	.41	Jul 1
MAXIMUM PEAK FLOW	1910	Dec 16
MAXIMUM PEAK STAGE	6.99	Dec 16
10 PERCENT EXCEEDS	28	
50 PERCENT EXCEEDS	3.3	
90 PERCENT EXCEEDS	.56	

e Estimated



03254480 CRUISES CREEK AT HIGHWAY 17 NEAR PINER, KY--Continued
WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 2000 to September 2001.

COOPERATION.--Northern Kentucky Sanitation District No. 1.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 2000 to September 2001.
pH:December 2000 to September 2001.
WATER TEMPERATURES: December 2000 to September 2001.
DISSOLVED OXYGEN: December 2000 to September 2001.
TURBIDITY: December 2000 to September 2001.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 916 microsiemens, Feb. 25, 2001; minimum, 117 microsiemens, July 18, 2001.
pH.--Maximum, 8.6 units, March 3, 2001; minimum, 7.3 units, May 22, 2001.
WATER TEMPERATURES: Maximum, 27.3°C, Aug. 8, 2001; minimum, 0.0°C, Dec. 13, 18-26 2000 and Feb. 18, 2001.
DISSOLVED OXYGEN: Maximum, 16.5 mg/L, Jan. 28, 2001; minimum, 1.2 mg/L, July 24, 2001.
TURBIDITY: Maximum, >1000 NTU, July 8, 9, 18 and Aug. 31, 2001; minimum, 2.0 NTU, April 19, and Aug. 30, 2001.

REMARKS.--There were several periods of missing data because of equipment failure. Records are rated poor.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	364	358	361
2	---	---	---	---	---	---	---	---	---	359	355	356
3	---	---	---	---	---	---	---	---	---	364	354	358
4	---	---	---	---	---	---	---	---	---	366	362	365
5	---	---	---	---	---	---	---	---	---	369	360	365
6	---	---	---	---	---	---	---	---	---	367	361	364
7	---	---	---	---	---	---	682	658	663	362	355	359
8	---	---	---	---	---	---	665	653	659	355	352	353
9	---	---	---	---	---	---	682	655	668	619	353	448
10	---	---	---	---	---	---	681	678	680	646	613	631
11	---	---	---	---	---	---	678	582	652	664	635	651
12	---	---	---	---	---	---	583	468	499	653	630	644
13	---	---	---	---	---	---	544	469	485	644	472	613
14	---	---	---	---	---	---	615	467	527	480	443	458
15	---	---	---	---	---	---	605	550	570	502	448	477
16	---	---	---	---	---	---	643	154	299	548	498	530
17	---	---	---	---	---	---	244	199	226	559	540	551
18	---	---	---	---	---	---	265	244	256	566	542	555
19	---	---	---	---	---	---	292	265	275	595	540	564
20	---	---	---	---	---	---	319	292	307	612	549	581
21	---	---	---	---	---	---	337	319	330	628	584	608
22	---	---	---	---	---	---	335	333	334	721	625	683
23	---	---	---	---	---	---	347	335	342	726	667	703
24	---	---	---	---	---	---	362	342	353	673	623	650
25	---	---	---	---	---	---	377	362	370	631	598	611
26	---	---	---	---	---	---	379	376	378	660	610	636
27	---	---	---	---	---	---	377	375	376	659	611	633
28	---	---	---	---	---	---	376	373	374	644	604	623
29	---	---	---	---	---	---	373	365	369	673	420	602
30	---	---	---	---	---	---	365	363	364	443	381	401
31	---	---	---	---	---	---	366	363	364	462	432	449
MONTH	---	---	---	---	---	---	---	---	---	726	352	522

03254480 CRUISES CREEK AT HIGHWAY 17 NEAR PINER, KY--Continued
WATER-QUALITY RECORDS

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	495	462	477	527	486	515	610	570	588	588	566	573
2	528	495	512	527	499	515	580	554	570	587	570	578
3	550	528	539	528	492	512	566	545	556	587	574	580
4	549	526	539	789	276	421	552	542	547	596	580	586
5	540	527	535	453	307	401	558	546	552	603	587	594
6	550	535	542	488	453	476	567	549	558	612	592	599
7	547	526	537	501	479	491	564	551	557	612	594	602
8	543	494	534	503	487	494	566	554	560	611	542	572
9	666	360	520	498	478	487	567	558	562	551	538	543
10	447	336	403	497	476	487	574	560	568	557	538	548
11	462	431	441	489	409	441	580	564	572	567	547	555
12	523	457	499	426	407	416	577	560	567	567	549	559
13	536	518	526	457	417	439	571	557	564	554	532	541
14	553	423	521	497	457	483	569	553	561	548	533	541
15	577	476	562	513	486	500	567	556	564	563	543	550
16	587	400	514	551	493	510	570	552	560	568	551	556
17	494	399	453	523	507	515	560	546	554	---	---	---
18	519	430	488	536	516	526	562	543	553	---	---	---
19	489	421	442	540	473	527	554	539	548	---	---	---
20	528	480	513	555	445	522	557	458	540	---	---	---
21	531	470	521	542	507	523	497	448	458	---	---	---
22	564	512	526	532	224	522	489	459	473	597	521	562
23	529	508	520	543	522	533	500	475	492	624	573	592
24	534	511	527	544	527	537	520	492	512	603	461	540
25	916	470	521	547	529	537	536	515	527	564	525	549
26	517	474	499	549	533	538	555	529	546	589	492	540
27	525	501	513	547	536	541	566	546	557	520	402	464
28	532	504	519	552	538	545	574	556	562	579	520	540
29	---	---	---	562	544	553	575	560	567	586	501	545
30	---	---	---	564	544	554	582	563	571	513	498	505
31	---	---	---	597	550	579	---	---	---	548	502	518
MONTH	916	336	509	789	224	505	610	448	549	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	536	429	466	540	521	529	545	534	540	386	307	364
2	530	441	487	554	515	534	554	499	541	459	371	410
3	571	527	556	529	513	522	533	474	498	496	459	482
4	613	427	539	546	526	536	550	533	543	507	496	502
5	544	425	471	580	545	559	551	485	532	515	486	510
6	479	223	358	559	526	546	485	465	471	519	509	515
7	438	295	401	531	511	520	502	468	487	522	512	516
8	504	435	467	557	180	482	527	500	514	520	491	513
9	519	504	513	431	209	350	542	513	529	500	419	463
10	544	517	533	476	405	436	547	529	539	435	379	414
11	555	541	548	417	366	386	560	546	555	460	432	446
12	560	541	550	409	385	396	566	555	560	466	452	458
13	546	484	516	435	407	422	573	566	570	481	462	474
14	500	468	483	465	435	449	578	562	571	496	479	489
15	471	457	466	470	445	458	576	556	567	504	494	499
16	534	466	498	479	458	469	567	533	558	516	502	510
17	489	443	454	473	455	463	578	556	566	526	510	518
18	468	446	454	471	117	294	577	533	561	537	520	527
19	481	456	469	372	346	355	553	472	501	538	519	530
20	503	479	490	437	251	386	492	472	483	548	531	540
21	526	490	511	472	334	435	501	487	492	560	547	553
22	543	521	533	506	216	405	504	481	494	568	552	562
23	553	543	547	388	343	373	504	484	492	581	567	575
24	560	545	552	479	373	418	516	488	498	583	548	569
25	569	553	560	535	479	514	500	477	489	555	548	552
26	586	559	568	545	231	374	503	456	477	573	548	565
27	587	563	570	521	453	498	497	450	464	578	572	574
28	609	534	570	535	194	371	489	453	474	581	573	578
29	544	508	524	450	387	419	495	475	487	585	573	580
30	522	512	517	519	450	493	505	491	497	590	577	582
31	---	---	---	536	518	529	513	236	419	---	---	---
MONTH	613	223	506	580	117	449	578	236	515	590	307	512
YEAR	916	117	506									

03254480 CRUISES CREEK AT HIGHWAY 17 NEAR PINER, KY--Continued
WATER-QUALITY RECORDS

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	8.0	8.0	8.0
2	---	---	---	---	---	---	---	---	---	8.0	7.9	8.0
3	---	---	---	---	---	---	---	---	---	8.0	8.0	8.0
4	---	---	---	---	---	---	---	---	---	8.0	7.9	8.0
5	---	---	---	---	---	---	---	---	---	8.1	7.9	8.0
6	---	---	---	---	---	---	---	---	---	8.1	8.0	8.0
7	---	---	---	---	---	---	8.1	8.1	8.1	8.1	8.0	8.1
8	---	---	---	---	---	---	8.1	8.1	8.1	8.1	7.9	8.0
9	---	---	---	---	---	---	8.1	8.1	8.1	8.1	7.9	8.0
10	---	---	---	---	---	---	8.1	8.1	8.1	8.1	7.9	8.0
11	---	---	---	---	---	---	8.1	8.0	8.1	8.1	7.9	8.0
12	---	---	---	---	---	---	8.2	8.0	8.1	8.1	7.9	8.0
13	---	---	---	---	---	---	8.1	8.0	8.1	8.1	8.0	8.1
14	---	---	---	---	---	---	8.2	8.0	8.1	8.0	7.9	8.0
15	---	---	---	---	---	---	8.2	8.0	8.1	8.1	7.9	8.0
16	---	---	---	---	---	---	8.1	7.7	7.9	8.1	8.0	8.1
17	---	---	---	---	---	---	8.1	7.8	7.9	8.2	8.0	8.1
18	---	---	---	---	---	---	8.1	8.0	8.0	8.3	8.0	8.1
19	---	---	---	---	---	---	8.1	8.0	8.1	8.2	8.0	8.1
20	---	---	---	---	---	---	8.1	8.1	8.1	8.2	8.0	8.1
21	---	---	---	---	---	---	8.2	8.1	8.1	8.1	8.0	8.1
22	---	---	---	---	---	---	8.2	8.1	8.1	8.2	7.9	8.0
23	---	---	---	---	---	---	8.1	8.0	8.1	8.1	7.9	8.0
24	---	---	---	---	---	---	8.0	8.0	8.0	8.2	7.9	8.0
25	---	---	---	---	---	---	8.0	7.9	8.0	8.2	8.0	8.1
26	---	---	---	---	---	---	8.0	7.9	7.9	8.1	7.9	8.0
27	---	---	---	---	---	---	7.9	7.9	7.9	8.2	7.9	8.0
28	---	---	---	---	---	---	8.0	7.9	7.9	8.2	7.9	8.1
29	---	---	---	---	---	---	8.0	7.9	7.9	8.2	7.8	8.1
30	---	---	---	---	---	---	8.0	7.9	7.9	7.9	7.8	7.8
31	---	---	---	---	---	---	8.0	7.9	8.0	8.0	7.8	7.9
MONTH	---	---	---	---	---	---	---	---	---	8.3	7.8	8.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.2	7.9	8.0	8.5	8.2	8.3	8.3	8.0	8.1	7.8	7.6	7.7
2	8.2	8.0	8.1	8.5	8.2	8.3	8.2	8.0	8.1	7.8	7.6	7.7
3	8.3	8.0	8.1	8.6	8.2	8.3	8.2	8.0	8.1	7.8	7.6	7.7
4	8.2	8.0	8.1	8.3	7.7	8.0	8.1	7.9	8.0	7.8	7.5	7.7
5	8.2	8.1	8.1	8.2	7.8	8.0	8.0	7.9	8.0	7.7	7.5	7.6
6	8.3	8.1	8.2	8.3	8.0	8.1	8.0	7.8	7.9	7.8	7.5	7.6
7	8.3	8.1	8.2	8.3	8.1	8.2	8.0	7.8	7.9	7.8	7.6	7.6
8	8.3	8.1	8.2	8.3	8.1	8.2	8.0	7.8	7.9	8.0	7.5	7.7
9	8.3	7.8	8.1	8.4	8.1	8.2	8.0	7.8	7.9	7.8	7.7	7.7
10	8.2	7.7	7.9	8.4	8.1	8.2	8.0	7.8	7.9	7.8	7.6	7.7
11	8.3	8.0	8.1	8.4	7.9	8.2	8.0	7.7	7.9	7.8	7.6	7.7
12	8.3	8.0	8.1	8.3	7.9	8.1	8.1	7.8	7.9	7.7	7.6	7.6
13	8.4	8.0	8.2	8.4	7.9	8.1	8.1	7.8	7.9	7.8	7.6	7.7
14	8.4	8.1	8.3	8.4	8.0	8.2	8.1	7.8	8.0	7.9	7.7	7.8
15	8.4	8.1	8.2	8.4	8.0	8.2	8.1	7.8	7.9	7.9	7.7	7.8
16	8.2	8.0	8.1	8.3	8.0	8.2	8.2	7.9	8.0	7.8	7.7	7.8
17	8.4	8.0	8.2	8.3	8.0	8.2	8.2	8.0	8.1	---	---	---
18	8.4	8.1	8.3	8.3	7.7	8.2	8.1	8.0	8.0	---	---	---
19	8.5	8.1	8.3	8.3	8.1	8.2	8.1	8.0	8.0	---	---	---
20	8.5	8.2	8.3	8.3	8.1	8.2	8.1	7.8	8.0	---	---	---
21	8.5	8.2	8.3	8.3	8.0	8.2	8.1	7.8	7.9	---	---	---
22	8.5	8.2	8.3	8.3	8.0	8.2	8.0	7.8	7.9	7.6	7.3	7.5
23	8.5	8.2	8.3	8.3	8.0	8.2	8.0	7.7	7.9	7.6	7.5	7.5
24	8.5	8.2	8.3	8.3	8.0	8.1	8.0	7.7	7.8	7.6	7.5	7.5
25	8.3	8.1	8.2	8.3	8.1	8.2	8.0	7.6	7.8	7.7	7.5	7.6
26	8.5	8.1	8.3	8.3	8.1	8.2	8.0	7.7	7.8	7.8	7.6	7.7
27	8.5	8.2	8.3	8.3	8.2	8.2	7.9	7.7	7.8	7.7	7.5	7.6
28	8.5	8.2	8.3	8.2	8.1	8.2	7.9	7.6	7.8	7.8	7.6	7.7
29	---	---	---	8.2	8.1	8.2	7.8	7.6	7.8	7.8	7.6	7.7
30	---	---	---	8.2	8.1	8.2	7.8	7.7	7.8	7.7	7.6	7.6
31	---	---	---	8.2	8.0	8.1	---	---	---	7.7	7.6	7.6
MONTH	8.5	7.7	8.2	8.6	7.7	8.2	8.3	7.6	7.9	---	---	---

03254480 CRUISES CREEK AT HIGHWAY 17 NEAR PINER, KY--Continued
WATER-QUALITY RECORDS

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.7	7.6	7.6	8.4	8.1	8.3	8.4	7.8	7.9	8.0	7.7	7.9
2	7.9	7.7	7.8	8.3	8.0	8.1	8.1	8.1	8.1	8.1	7.8	7.9
3	8.0	7.8	7.9	8.3	8.0	8.1	8.1	7.9	8.0	8.1	7.9	8.0
4	7.9	7.7	7.8	8.2	8.0	8.1	8.1	8.0	8.1	8.1	8.0	8.0
5	7.9	7.7	7.8	8.3	7.9	8.1	8.0	8.0	8.0	8.1	8.0	8.0
6	7.9	7.5	7.7	8.3	8.0	8.1	8.0	7.9	7.9	8.0	8.0	8.0
7	7.9	7.5	7.7	8.2	8.0	8.1	8.0	7.9	7.9	8.0	7.9	8.0
8	8.0	7.8	7.9	8.2	7.7	8.0	8.0	7.9	8.0	8.0	7.9	8.0
9	8.0	7.9	7.9	8.0	7.8	7.9	8.0	7.9	8.0	7.9	7.8	7.9
10	8.0	7.9	7.9	8.0	7.9	7.9	7.9	7.8	7.9	8.0	7.7	7.8
11	8.0	7.9	7.9	7.9	7.9	7.9	7.9	7.8	7.8	7.9	7.9	7.9
12	7.9	7.8	7.9	8.0	7.8	7.9	8.0	7.8	7.9	8.0	7.9	7.9
13	7.9	7.8	7.9	8.0	7.8	7.9	8.0	7.9	8.0	8.0	7.9	7.9
14	7.9	7.8	7.8	8.0	7.8	7.9	8.0	7.9	7.9	8.0	7.9	7.9
15	7.9	7.7	7.8	7.9	7.8	7.8	8.0	7.9	7.9	8.0	7.9	8.0
16	8.0	7.7	7.9	8.0	7.8	7.9	8.0	7.9	8.0	8.1	7.9	8.0
17	7.9	7.8	7.8	8.2	7.8	8.0	8.0	7.8	7.9	8.1	8.0	8.0
18	7.8	7.7	7.8	8.1	7.5	7.7	7.9	7.8	7.8	8.1	8.0	8.0
19	7.9	7.7	7.8	7.9	7.7	7.8	7.9	7.7	7.9	8.0	7.9	8.0
20	7.8	7.7	7.8	7.8	7.6	7.7	7.9	7.8	7.8	8.0	7.9	7.9
21	7.9	7.8	7.8	7.8	7.6	7.7	7.9	7.8	7.9	8.0	7.9	7.9
22	7.9	7.8	7.9	7.8	7.4	7.7	7.9	7.8	7.8	8.0	7.9	7.9
23	8.0	7.9	7.9	7.9	7.7	7.8	7.9	7.8	7.8	7.9	7.9	7.9
24	8.0	7.9	8.0	7.9	7.7	7.8	7.9	7.7	7.8	7.9	7.8	7.9
25	8.0	7.9	8.0	7.9	7.7	7.8	8.0	7.8	7.8	8.0	7.9	7.9
26	8.1	7.9	8.0	7.8	7.4	7.7	7.9	7.7	7.8	8.0	8.0	8.0
27	8.3	7.9	8.0	8.0	7.8	7.9	7.8	7.7	7.8	8.0	8.0	8.0
28	8.3	7.9	8.1	7.9	7.4	7.6	7.9	7.8	7.8	8.0	7.9	8.0
29	8.2	7.9	8.0	7.8	7.6	7.7	7.9	7.8	7.8	8.0	7.9	8.0
30	8.3	8.0	8.1	7.9	7.7	7.8	7.9	7.8	7.8	8.0	7.9	8.0
31	---	---	---	7.9	7.8	7.8	7.9	7.6	7.8	---	---	---
MONTH	8.3	7.5	7.9	8.4	7.4	7.9	8.4	7.6	7.9	8.1	7.7	7.9
YEAR	8.6	7.3	8.0									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	.7	.1	.6
2	---	---	---	---	---	---	3.7	2.5	3.1	.7	.1	.6
3	---	---	---	---	---	---	2.5	1.4	2.0	.7	.1	.5
4	---	---	---	---	---	---	1.9	1.1	1.3	.7	.1	.5
5	---	---	---	---	---	---	2.1	1.1	1.6	.7	.1	.5
6	---	---	---	---	---	---	1.9	1.1	1.5	.7	.1	.5
7	---	---	---	---	---	---	1.7	1.2	1.4	.7	.1	.5
8	---	---	---	---	---	---	1.6	1.4	1.5	.7	.1	.5
9	---	---	---	---	---	---	1.9	.9	1.4	.7	.1	.5
10	---	---	---	---	---	---	1.9	1.2	1.6	.7	.1	.5
11	---	---	---	---	---	---	3.2	1.8	2.1	.7	.1	.5
12	---	---	---	---	---	---	2.7	.1	.7	.7	.1	.5
13	---	---	---	---	---	---	.3	.0	.1	.7	.1	.6
14	---	---	---	---	---	---	.5	.2	.3	.7	.6	.6
15	---	---	---	---	---	---	1.7	.3	.9	.7	.1	.5
16	---	---	---	---	---	---	6.7	1.7	5.0	.7	.1	.6
17	---	---	---	---	---	---	6.5	.1	3.0	.7	.1	.5
18	---	---	---	---	---	---	.6	.0	.5	.7	.1	.5
19	---	---	---	---	---	---	.6	.0	.3	.7	.1	.4
20	---	---	---	---	---	---	.6	.0	.4	.8	.2	.5
21	---	---	---	---	---	---	.6	.0	.5	.8	.2	.7
22	---	---	---	---	---	---	.6	.0	.5	.8	.2	.6
23	---	---	---	---	---	---	.6	.0	.4	.8	.2	.6
24	---	---	---	---	---	---	.6	.0	.4	.8	.2	.6
25	---	---	---	---	---	---	.6	.0	.3	.8	.2	.6
26	---	---	---	---	---	---	.6	.0	.4	.8	.7	.7
27	---	---	---	---	---	---	.7	.6	.6	.8	.2	.6
28	---	---	---	---	---	---	.7	.1	.5	.8	.2	.6
29	---	---	---	---	---	---	.7	.1	.6	1.4	.2	.6
30	---	---	---	---	---	---	.7	.1	.6	3.1	.2	.9
31	---	---	---	---	---	---	.7	.1	.7	4.5	3.1	4.0
MONTH	---	---	---	---	---	---	---	---	---	4.5	.1	.7

03254480 CRUISES CREEK AT HIGHWAY 17 NEAR PINER, KY--Continued
WATER-QUALITY RECORDS

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.2	3.1	3.7	4.6	1.6	3.3	11.5	8.7	10.3	21.1	16.7	18.9
2	3.1	.3	1.8	6.7	3.9	5.1	11.0	6.7	9.0	22.0	17.8	19.9
3	.7	.1	.5	8.2	5.7	6.8	13.2	9.9	11.2	22.3	18.3	20.4
4	1.7	.1	.9	7.7	5.7	6.5	14.5	9.9	12.2	23.3	19.3	21.2
5	1.5	.5	1.0	5.7	3.5	4.8	15.7	10.2	12.8	22.5	18.9	20.8
6	2.5	.9	1.6	3.5	1.8	2.8	17.6	14.9	16.1	22.6	19.1	21.0
7	2.8	.2	1.5	5.5	2.6	3.8	20.8	15.2	17.8	22.1	20.3	21.2
8	5.8	1.4	3.4	6.0	2.3	4.2	21.6	18.6	20.0	21.9	19.4	20.6
9	9.4	5.6	7.1	4.9	3.0	4.0	22.7	18.4	20.5	20.6	17.6	19.2
10	7.9	3.4	5.2	5.7	.9	3.3	21.9	20.1	20.9	21.3	17.4	19.4
11	3.4	1.0	2.3	8.2	3.1	5.6	23.5	19.4	21.3	23.1	18.3	20.6
12	3.7	1.6	2.7	7.5	4.7	5.9	23.0	20.3	21.8	21.5	19.1	20.2
13	5.6	3.7	4.7	8.9	6.4	7.6	21.7	18.4	20.3	19.1	16.3	17.6
14	8.5	5.6	6.9	10.1	6.2	8.2	19.9	15.8	18.2	18.4	14.9	16.8
15	8.6	7.3	8.1	9.0	6.8	7.9	19.3	15.5	17.2	21.0	16.5	18.6
16	7.3	5.6	6.7	9.3	7.7	8.5	15.5	12.8	14.4	20.3	18.6	19.6
17	5.6	2.0	3.8	8.6	5.6	6.9	14.4	10.0	11.5	---	---	---
18	3.0	.0	1.5	8.2	4.0	6.0	12.2	7.8	10.0	---	---	---
19	4.9	1.3	2.9	8.1	3.9	6.3	13.9	9.0	11.5	---	---	---
20	6.0	3.2	4.5	7.6	6.1	6.9	13.7	11.9	12.7	---	---	---
21	5.4	3.8	4.7	8.9	6.0	7.4	18.0	12.6	14.8	---	---	---
22	4.0	1.9	2.5	10.3	5.5	8.0	21.5	17.2	19.1	20.5	17.4	18.8
23	4.6	1.5	2.9	11.0	6.0	8.7	21.8	18.3	20.2	18.1	15.4	16.1
24	7.8	3.1	4.8	10.5	7.7	9.1	21.2	17.2	18.8	16.5	13.8	15.4
25	10.8	7.8	9.3	8.4	4.9	6.5	17.2	13.4	15.5	16.0	14.3	15.3
26	8.7	5.7	7.2	5.9	3.3	4.5	17.0	12.7	15.0	16.4	14.1	15.3
27	6.9	4.8	6.0	5.8	2.4	4.0	18.7	13.7	16.2	15.8	13.7	14.8
28	6.3	4.1	5.2	7.5	2.3	5.0	18.3	15.3	17.0	17.8	13.3	15.5
29	---	---	---	8.5	6.1	7.2	17.7	13.8	15.9	18.6	14.9	16.8
30	---	---	---	9.5	5.6	7.8	19.7	14.0	16.9	18.4	16.4	17.6
31	---	---	---	11.5	8.0	9.7	---	---	---	17.4	15.2	15.7
MONTH	10.8	.0	4.1	11.5	.9	6.2	23.5	6.7	16.0	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.9	15.1	15.6	25.6	22.7	23.9	25.7	23.0	24.3	21.9	20.3	21.1
2	16.2	13.7	14.8	23.4	20.5	21.7	26.4	23.5	24.9	21.3	18.9	20.3
3	16.8	14.2	15.5	21.9	19.3	20.7	25.9	24.2	24.9	20.7	18.9	19.9
4	16.6	15.1	15.7	22.0	20.1	20.9	25.7	23.4	24.5	21.8	19.7	20.7
5	17.3	14.8	15.8	24.2	20.3	21.9	25.1	22.3	23.8	21.8	20.3	21.2
6	18.9	15.7	16.9	22.2	19.1	20.8	26.1	23.4	24.7	21.0	18.7	20.1
7	17.8	15.9	16.7	21.1	19.8	20.3	27.1	24.6	25.9	22.5	19.8	21.1
8	19.3	16.3	17.8	22.8	20.6	21.4	27.3	24.9	26.2	23.1	21.0	22.1
9	20.1	16.2	18.2	22.5	19.6	20.9	26.7	25.2	26.0	22.6	20.7	21.7
10	20.8	16.6	18.8	24.7	21.4	22.9	26.4	25.3	25.8	21.9	19.5	20.4
11	22.2	17.8	20.0	23.9	21.8	23.0	26.2	24.8	25.6	19.7	17.0	18.3
12	24.4	20.4	22.3	22.6	19.6	20.8	26.5	24.9	25.7	19.1	16.6	17.9
13	24.3	21.7	23.0	21.9	18.7	20.4	25.6	23.3	24.4	19.4	16.8	18.1
14	25.2	21.9	23.5	22.6	18.4	20.4	24.5	22.7	23.6	18.6	16.5	17.5
15	25.8	22.8	24.1	22.2	18.4	20.4	23.9	21.1	22.6	16.5	15.0	15.8
16	25.3	22.5	23.7	23.0	18.8	20.9	23.6	21.3	22.5	16.0	13.8	14.9
17	23.5	20.5	22.2	25.0	20.4	22.4	24.2	20.6	22.4	16.8	13.6	15.1
18	23.6	20.3	22.0	23.7	20.0	21.5	22.9	20.6	21.7	16.7	15.4	16.0
19	24.6	20.4	22.6	23.9	21.6	22.6	22.0	20.3	21.2	17.3	16.4	16.8
20	23.7	21.8	22.8	25.6	21.9	23.5	21.3	19.9	20.5	17.5	15.8	16.7
21	22.8	21.2	21.9	24.6	21.2	22.8	21.5	19.1	20.3	17.4	15.7	16.5
22	22.0	20.1	21.0	24.3	22.5	23.4	22.1	19.7	20.6	17.5	15.8	16.7
23	20.1	18.7	19.3	24.7	22.0	23.2	23.1	20.9	21.8	18.0	15.3	16.6
24	21.0	17.7	19.3	26.0	23.4	24.7	23.9	20.9	22.3	17.4	15.1	16.4
25	21.8	18.2	20.1	27.0	24.3	25.6	24.0	21.5	22.7	15.1	13.0	13.7
26	22.5	19.0	20.8	26.5	21.8	22.8	23.3	22.0	22.6	13.0	11.9	12.4
27	23.8	20.0	21.9	23.5	20.5	22.0	23.4	22.0	22.7	14.0	11.3	12.5
28	25.0	20.5	22.4	22.8	20.3	21.4	23.4	21.3	22.5	12.8	10.9	11.9
29	24.1	20.7	22.3	22.3	21.3	21.7	24.1	22.3	23.1	13.1	10.5	11.7
30	24.5	22.2	23.5	23.4	20.9	22.1	24.9	22.3	23.6	13.6	10.5	12.0
31	---	---	---	24.7	21.8	23.3	23.9	21.6	22.9	---	---	---
MONTH	25.8	13.7	20.1	27.0	18.4	22.1	27.3	19.1	23.4	23.1	10.5	17.2
YEAR	27.3	.0	12.9									

03254480 CRUISES CREEK AT HIGHWAY 17 NEAR PINER, KY--Continued
WATER-QUALITY RECORDS

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	12.6	12.2	12.4
2	---	---	---	---	---	---	---	---	---	12.6	12.4	12.5
3	---	---	---	---	---	---	---	---	---	12.6	12.4	12.5
4	---	---	---	---	---	---	---	---	---	12.4	12.1	12.3
5	---	---	---	---	---	---	---	---	---	12.4	12.0	12.2
6	---	---	---	---	---	---	---	---	---	12.5	12.0	12.3
7	---	---	---	---	---	---	13.6	12.7	13.1	12.6	12.2	12.4
8	---	---	---	---	---	---	13.1	12.3	12.7	12.7	12.0	12.4
9	---	---	---	---	---	---	13.1	12.6	12.8	13.9	12.5	13.0
10	---	---	---	---	---	---	13.2	12.4	12.8	14.0	13.6	13.8
11	---	---	---	---	---	---	12.8	11.3	12.2	14.0	13.5	13.7
12	---	---	---	---	---	---	13.2	11.1	12.5	13.8	13.1	13.5
13	---	---	---	---	---	---	13.1	12.7	12.9	14.4	13.3	13.7
14	---	---	---	---	---	---	13.2	12.5	12.9	13.5	13.1	13.3
15	---	---	---	---	---	---	13.2	12.4	12.9	13.7	12.8	13.2
16	---	---	---	---	---	---	12.4	9.5	11.1	14.0	13.1	13.5
17	---	---	---	---	---	---	12.6	10.3	11.6	14.4	13.1	13.7
18	---	---	---	---	---	---	13.0	12.2	12.8	14.5	13.1	13.7
19	---	---	---	---	---	---	12.7	12.0	12.3	13.7	12.7	13.1
20	---	---	---	---	---	---	12.8	12.5	12.6	14.1	13.0	13.4
21	---	---	---	---	---	---	12.8	12.6	12.7	14.5	13.1	13.7
22	---	---	---	---	---	---	12.9	12.7	12.8	15.0	13.3	14.0
23	---	---	---	---	---	---	12.9	12.7	12.8	15.6	13.4	14.2
24	---	---	---	---	---	---	12.9	12.5	12.7	15.3	13.2	14.0
25	---	---	---	---	---	---	13.0	12.9	12.9	15.3	13.1	14.0
26	---	---	---	---	---	---	13.0	12.6	12.8	14.7	13.2	13.8
27	---	---	---	---	---	---	12.7	12.2	12.4	15.9	12.7	14.0
28	---	---	---	---	---	---	12.6	12.2	12.4	16.5	13.2	14.6
29	---	---	---	---	---	---	12.6	12.2	12.4	16.4	12.7	14.1
30	---	---	---	---	---	---	12.4	12.1	12.3	13.3	11.1	12.1
31	---	---	---	---	---	---	12.4	12.2	12.3	11.9	11.1	11.5
MONTH	---	---	---	---	---	---	---	---	---	16.5	11.1	13.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.9	11.1	11.8	16.2	11.3	13.4	11.9	8.6	10.2	8.4	6.7	7.7
2	14.3	11.5	12.8	16.0	10.8	13.0	12.4	9.1	10.6	8.0	6.2	7.1
3	15.1	13.0	13.8	16.0	9.9	12.6	11.1	8.5	9.8	8.3	6.2	7.1
4	15.1	12.8	13.7	11.8	9.5	10.6	11.1	8.1	9.6	7.8	5.8	6.8
5	14.5	12.3	13.2	12.0	10.8	11.3	10.7	8.0	9.3	7.3	5.2	6.2
6	15.4	12.2	13.4	13.5	11.2	12.3	9.6	7.0	8.1	7.3	4.7	6.1
7	16.1	12.3	13.9	13.8	11.2	12.2	9.4	6.1	7.7	6.9	4.4	5.7
8	15.9	11.8	13.5	14.2	10.9	12.3	8.6	5.3	6.9	8.7	3.9	6.1
9	13.8	9.7	11.2	14.5	10.8	12.5	10.0	5.2	7.3	7.5	4.9	6.2
10	12.2	9.8	11.1	15.3	11.6	13.2	8.6	5.7	7.3	6.8	5.0	6.0
11	13.8	11.3	12.5	14.7	10.2	12.3	10.0	5.7	7.7	6.7	5.0	5.8
12	14.4	11.4	12.5	13.2	9.6	11.3	10.1	5.5	7.6	6.6	4.8	5.6
13	13.7	10.6	11.8	14.3	9.4	11.7	9.8	5.6	7.6	7.3	5.2	6.2
14	12.6	9.6	10.9	15.4	9.3	12.3	10.0	6.3	8.1	8.8	6.3	7.1
15	11.6	8.9	10.0	14.9	9.2	11.7	9.2	6.2	7.3	8.3	5.9	7.0
16	11.0	9.5	10.1	14.0	9.2	11.4	10.7	6.7	8.4	7.4	6.0	6.6
17	13.0	10.2	11.7	13.7	9.1	11.3	10.4	8.2	9.4	---	---	---
18	14.0	11.5	12.6	15.3	10.6	12.8	11.5	9.3	10.3	---	---	---
19	14.4	11.2	12.6	15.1	10.6	12.8	11.2	9.4	10.2	---	---	---
20	14.3	10.7	12.1	14.2	10.2	12.2	10.4	7.5	8.6	---	---	---
21	14.6	10.3	12.2	14.0	10.0	11.8	9.6	7.3	8.3	---	---	---
22	15.1	11.0	12.7	14.7	9.8	12.0	8.8	6.5	7.7	7.6	5.3	6.7
23	15.9	11.8	13.4	14.3	9.6	11.8	8.2	5.9	7.0	7.7	6.7	7.2
24	15.8	11.0	12.9	13.5	9.0	11.1	7.9	5.0	6.4	8.7	7.2	8.0
25	11.5	9.3	9.9	13.8	9.9	11.8	10.2	6.2	8.1	8.6	7.7	8.2
26	14.5	9.2	11.6	14.3	10.8	12.5	10.4	7.8	9.2	8.9	8.0	8.4
27	15.2	10.0	12.1	14.5	11.7	13.0	10.1	7.7	8.8	9.0	8.0	8.6
28	15.8	10.4	12.7	14.3	11.6	12.9	9.3	6.9	8.2	9.3	8.1	8.5
29	---	---	---	13.5	10.4	11.9	8.9	6.9	8.1	8.9	7.6	8.2
30	---	---	---	13.3	10.0	11.6	8.6	7.2	8.1	8.8	7.2	8.0
31	---	---	---	13.0	9.2	11.1	---	---	---	8.8	7.7	8.2
MONTH	16.1	8.9	12.2	16.2	9.0	12.1	12.4	5.0	8.4	---	---	---

03254480 CRUISES CREEK AT HIGHWAY 17 NEAR PINER, KY--Continued
WATER-QUALITY RECORDS

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.1	8.5	8.8	10.5	6.6	8.0	---	---	---	7.6	6.6	7.1
2	9.6	8.6	9.1	8.9	5.4	7.2	7.6	6.3	6.8	8.2	6.5	7.3
3	10.1	8.7	9.3	9.3	6.4	7.6	7.0	5.8	6.3	8.2	6.6	7.3
4	9.8	8.5	9.1	8.2	6.2	7.1	7.2	5.8	6.3	8.1	6.4	7.1
5	9.5	8.2	9.1	9.9	6.0	7.4	7.1	5.7	6.3	7.4	5.9	6.8
6	9.1	8.4	8.7	9.2	6.1	7.6	6.9	5.3	6.2	7.5	6.0	6.8
7	9.2	8.5	8.9	8.0	6.3	7.1	6.9	5.2	6.1	7.3	6.1	6.8
8	9.0	7.7	8.5	9.4	6.4	7.3	6.5	5.2	6.0	7.1	6.1	6.6
9	8.9	7.5	8.1	8.1	6.4	7.3	6.4	5.1	5.8	6.5	5.6	6.1
10	8.7	7.2	7.9	6.8	5.9	6.4	5.9	4.5	5.3	7.7	5.2	6.4
11	8.5	7.0	7.6	7.5	5.7	6.4	6.7	4.8	5.8	7.6	6.5	7.0
12	7.8	6.2	7.0	6.8	5.5	6.1	7.2	5.3	6.2	7.7	6.6	7.1
13	6.9	5.9	6.5	7.1	5.7	6.2	7.5	5.1	6.1	7.4	6.4	6.9
14	6.8	5.8	6.3	7.6	5.7	6.3	7.2	5.4	6.2	7.2	6.3	6.7
15	6.8	5.2	6.0	7.0	5.5	6.3	8.0	5.4	6.5	7.8	6.7	7.1
16	7.3	5.3	6.3	8.0	5.7	6.7	8.0	5.6	6.5	8.3	6.8	7.5
17	7.0	5.9	6.4	11.0	5.8	7.9	8.3	5.3	6.3	8.6	7.2	7.7
18	6.8	5.3	6.1	8.4	6.7	7.4	6.8	4.8	5.6	7.9	6.8	7.3
19	6.7	5.3	6.0	6.7	3.8	5.2	6.8	5.4	6.1	7.0	6.4	6.7
20	6.3	5.3	5.9	3.8	3.1	3.3	6.4	5.3	5.9	7.9	6.1	7.0
21	7.2	5.6	6.3	3.2	2.7	3.0	6.9	5.6	6.1	7.4	6.7	7.1
22	6.9	5.5	6.2	2.7	2.1	2.4	6.7	5.6	6.1	7.3	6.5	6.9
23	7.8	6.4	6.9	2.2	1.5	1.9	6.9	5.7	6.1	7.1	6.5	6.8
24	8.1	6.7	7.4	1.5	1.2	1.3	7.3	5.3	6.1	7.2	6.2	6.7
25	8.5	6.5	7.4	---	---	---	7.3	5.5	6.3	8.0	6.8	7.3
26	9.0	6.4	7.5	---	---	---	6.8	5.3	6.1	8.3	7.8	8.0
27	10.7	6.6	8.3	---	---	---	6.5	5.5	6.0	8.5	7.7	8.0
28	13.5	6.5	8.7	---	---	---	6.8	5.6	6.2	8.2	7.5	7.8
29	9.2	6.5	7.7	---	---	---	6.7	5.5	6.1	8.5	7.4	7.8
30	9.4	6.2	7.9	---	---	---	7.3	5.5	6.3	8.5	7.3	7.7
31	---	---	---	---	---	---	7.4	5.6	6.3	---	---	---
MONTH	13.5	5.2	7.5	---	---	---	---	---	---	8.6	5.2	7.1
YEAR	16.5	1.2	9.3									

TURBIDITY (NTU), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	26	19	20
2	---	---	---	---	---	---	---	---	---	19	16	18
3	---	---	---	---	---	---	---	---	---	19	16	18
4	---	---	---	---	---	---	---	---	---	20	16	18
5	---	---	---	---	---	---	---	---	---	20	15	17
6	---	---	---	---	---	---	---	---	---	17	15	16
7	---	---	---	---	---	---	53	10	18	19	13	16
8	---	---	---	---	---	---	14	12	12	18	16	17
9	---	---	---	---	---	---	13	10	12	21	16	18
10	---	---	---	---	---	---	13	11	12	19	17	18
11	---	---	---	---	---	---	90	12	27	20	18	19
12	---	---	---	---	---	---	72	44	62	21	19	19
13	---	---	---	---	---	---	70	49	60	42	19	24
14	---	---	---	---	---	---	61	43	49	40	28	33
15	---	---	---	---	---	---	47	34	40	35	29	33
16	---	---	---	---	---	---	920	33	340	34	25	30
17	---	---	---	---	---	---	200	76	110	29	25	26
18	---	---	---	---	---	---	78	56	66	25	23	24
19	---	---	---	---	---	---	60	35	45	76	24	51
20	---	---	---	---	---	---	36	30	33	44	32	37
21	---	---	---	---	---	---	43	26	29	32	27	30
22	---	---	---	---	---	---	27	25	26	28	26	27
23	---	---	---	---	---	---	26	23	24	27	24	25
24	---	---	---	---	---	---	24	22	23	26	24	25
25	---	---	---	---	---	---	26	22	23	26	24	25
26	---	---	---	---	---	---	25	21	22	26	24	25
27	---	---	---	---	---	---	23	20	21	26	24	25
28	---	---	---	---	---	---	26	20	21	26	24	25
29	---	---	---	---	---	---	21	19	20	960	24	120
30	---	---	---	---	---	---	22	19	20	410	61	150
31	---	---	---	---	---	---	21	19	20	160	41	58
MONTH	---	---	---	---	---	---	---	---	---	960	13	32

03254480 CRUISES CREEK AT HIGHWAY 17 NEAR PINER, KY--Continued
WATER-QUALITY RECORDS

TURBIDITY (NTU), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	48	21	31	25	19	21	15	11	13	27	19	22
2	24	15	18	23	18	20	27	7.4	12	74	20	25
3	18	15	16	35	5.0	19	12	8.8	11	99	18	25
4	21	16	17	850	8.0	240	22	9.8	12	61	22	27
5	22	17	19	200	43	81	15	9.8	12	45	22	30
6	25	20	22	43	28	35	45	10	13	160	20	30
7	27	24	25	32	27	29	22	10	15	38	21	25
8	34	27	29	36	26	28	17	12	14	55	28	39
9	950	27	180	64	15	18	28	15	17	36	24	30
10	700	40	180	19	11	14	19	14	17	48	23	30
11	540	25	74	53	11	22	22	13	16	58	25	31
12	26	9.0	16	220	22	30	25	17	20	100	25	31
13	28	13	21	26	20	23	31	17	21	51	25	31
14	62	23	27	28	19	22	33	17	21	110	23	31
15	39	28	34	25	18	20	32	15	18	35	22	28
16	480	34	130	33	17	21	19	11	15	72	14	23
17	180	37	78	330	15	32	22	8.0	11	---	---	---
18	45	27	35	170	13	20	64	3.0	6.8	---	---	---
19	41	26	32	340	13	26	16	2.0	5.9	---	---	---
20	29	21	24	660	14	87	15	3.0	8.4	---	---	---
21	27	19	22	430	15	34	240	3.0	13	---	---	---
22	23	15	18	74	15	18	150	3.0	9.2	290	65	120
23	17	13	15	300	12	22	43	5.0	13	96	54	71
24	25	7.0	16	28	13	15	63	4.0	28	600	56	140
25	470	16	120	200	12	24	20	3.0	14	120	65	88
26	100	26	53	15	12	14	36	15	19	100	46	67
27	40	24	28	21	12	12	33	17	20	980	82	230
28	27	21	24	78	7.3	16	26	16	21	110	61	84
29	---	---	---	54	9.9	17	29	17	21	63	32	47
30	---	---	---	12	8.8	10	32	18	22	51	26	39
31	---	---	---	18	10	11	---	---	---	120	26	39
MONTH	950	7.0	47	850	5.0	32	240	2.0	15	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	910	28	230	51	36	42	52	13	32	910	190	280
2	180	65	110	52	39	45	34	17	25	200	95	140
3	70	27	50	59	38	49	60	23	34	100	73	88
4	960	34	170	50	40	45	34	19	26	91	66	76
5	710	79	160	61	40	45	39	28	33	83	67	74
6	980	130	510	57	40	48	44	33	39	94	72	77
7	380	110	150	53	42	48	43	31	37	97	69	76
8	120	49	78	>1000	41	---	44	33	36	120	68	76
9	60	34	44	>1000	110	---	150	34	53	400	94	170
10	56	25	37	250	92	140	58	27	41	380	170	240
11	48	22	34	140	85	110	39	27	32	180	130	160
12	79	21	33	170	80	99	40	30	33	140	120	130
13	110	34	77	120	70	89	45	25	35	130	110	120
14	140	40	79	85	57	72	35	25	30	120	110	120
15	75	30	43	74	49	59	35	24	30	120	100	110
16	130	43	62	83	40	51	37	22	29	120	100	110
17	120	42	66	52	39	45	37	23	28	120	100	110
18	57	34	45	>1000	38	---	55	18	24	120	100	100
19	46	26	36	420	200	320	320	50	110	110	97	100
20	71	29	46	990	93	250	100	46	72	110	94	100
21	60	31	45	690	110	200	54	32	44	110	93	99
22	56	35	42	990	83	370	42	23	33	110	94	98
23	54	35	44	480	150	280	26	15	19	100	94	99
24	54	30	42	150	89	110	22	9.0	15	220	94	120
25	46	31	38	140	48	75	16	5.0	11	110	100	110
26	46	31	36	980	48	350	610	8.0	57	110	100	110
27	46	24	35	230	57	92	130	56	84	110	110	110
28	160	31	45	980	64	300	56	22	38	130	95	98
29	180	43	77	170	98	130	25	8.0	19	100	96	99
30	50	36	43	98	48	65	32	2.0	7.4	100	96	99
31	---	---	---	68	43	53	>1000	3.0	---	---	---	---
MONTH	980	21	84	>1000	36	---	>1000	2.0	---	910	66	120
YEAR	1000	2.0	59									

03254550 BANKLICK CREEK AT HIGHWAY 1829 NEAR ERLANGER, KY

LOCATION.--Lat 38°58'34", long 84°32'40", Kenton County, Hydrologic Unit 05100101, at bridge on Highway 1829, 2.5 mi below Brushy Fork, 4.6 mi southeast of Erlanger, and at mile 8.2.

DRAINAGE AREA.--22.0 mi^2

PERIOD OF RECORD.--April 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 540.33 ft above NGVD of 1929.

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

COOPERATION.-- Northern Kentucky Sanitation District No. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	e.62	3.7	e7.1	59	20	14	1.9	115	2.3	7.3	76
2	3.4	e.58	3.4	e6.9	37	18	11	1.7	37	2.4	7.1	29
3	2.9	e.54	3.0	e6.7	28	17	8.9	1.6	26	2.6	18	18
4	3.1	1.9	2.8	e6.6	23	104	8.3	1.6	109	5.4	19	16
5	16	1.8	e2.6	e6.4	20	95	7.1	1.4	86	7.1	9.0	13
6	10	2.0	e2.4	e6.3	18	45	8.4	1.4	436	3.5	5.9	8.5
7	5.7	e7.9	e2.3	e6.2	16	32	15	2.6	150	2.6	4.9	6.6
8	3.6	e18	e2.2	e6.0	15	26	9.9	22	51	e32	4.0	5.2
9	2.3	e21	2.3	e5.9	38	22	8.7	6.8	28	e20	3.3	10
10	2.0	e10	2.3	e5.8	120	18	8.3	3.7	18	e13	8.2	42
11	2.2	e6.8	17	e5.7	43	17	7.8	2.3	13	e8.0	13	12
12	2.3	4.9	60	e5.6	31	15	6.8	4.2	10	3.6	56	7.2
13	2.1	4.2	10	e5.5	26	19	5.7	3.7	18	3.1	7.9	5.8
14	1.7	4.2	56	e5.4	26	14	5.3	1.9	10	2.2	5.3	4.2
15	1.5	3.9	20	15	30	13	5.8	1.4	28	1.7	4.0	3.9
16	1.5	3.6	925	13	72	16	6.1	1.1	35	1.2	3.2	3.4
17	1.5	3.4	181	9.1	76	17	5.5	1.7	12	.89	2.4	3.1
18	1.6	3.2	63	8.5	41	13	5.5	99	7.4	475	4.7	13
19	1.7	3.0	37	21	32	12	5.0	50	5.3	88	194	15
20	1.7	3.0	26	22	27	12	5.9	16	4.3	25	23	13
21	1.4	2.7	21	15	22	17	7.3	10	4.7	13	12	5.4
22	1.2	2.5	16	13	21	13	5.2	18	6.4	22	7.9	3.2
23	e1.1	2.5	14	e11	19	12	4.4	10	5.0	21	6.3	2.9
24	e.98	2.3	e12	e10	17	11	4.3	38	3.8	9.1	5.4	15
25	e.90	15	e10	e9.4	73	9.5	4.2	20	2.9	6.2	4.7	7.5
26	e.86	12	e9.4	e9.0	41	8.9	3.5	11	2.2	37	114	3.9
27	e.80	7.2	e8.9	e8.6	29	9.0	3.1	38	1.7	15	82	3.5
28	e.76	5.4	e8.5	e8.2	24	9.4	2.9	19	1.5	28	20	3.1
29	e.74	4.5	e8.0	19	---	9.2	2.5	10	2.9	32	12	2.6
30	e.70	4.0	e7.5	243	---	8.8	2.2	6.1	3.3	19	9.3	2.7
31	e.66	---	e7.3	138	---	9.7	---	5.3	---	9.9	140	---
TOTAL	81.40	162.64	1544.6	658.9	1024	662.5	198.6	411.4	1233.4	911.79	813.8	354.7
MEAN	2.63	5.42	49.8	21.3	36.6	21.4	6.62	13.3	41.1	29.4	26.3	11.8
MAX	16	21	925	243	120	104	15	99	436	475	194	76
MIN	.66	.54	2.2	5.4	15	8.8	2.2	1.1	1.5	.89	2.4	2.6

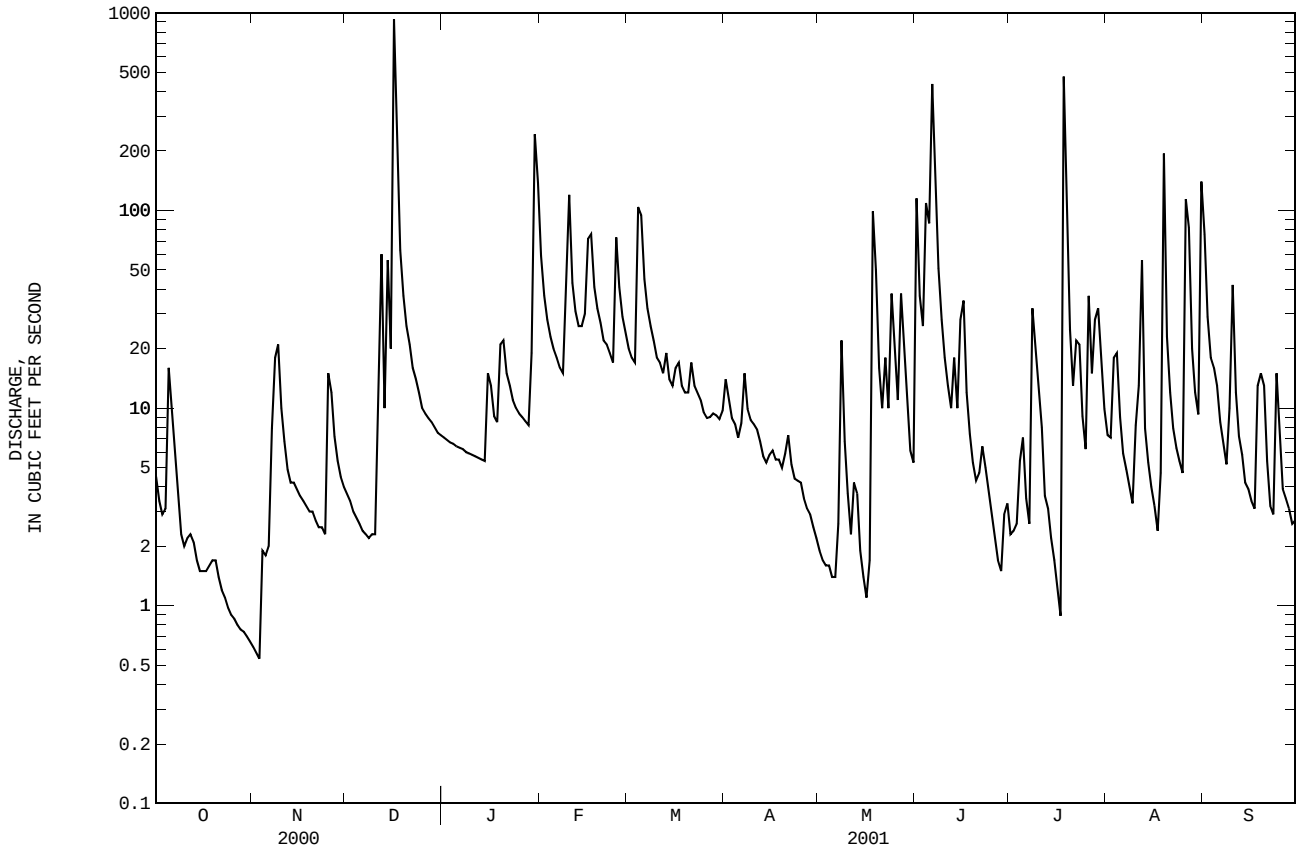
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	2.14	3.35	30.2	33.8	90.9	32.3	30.3	11.7	21.4	16.7	12.7	9.01
MAX	2.63	5.42	49.8	46.3	143	43.2	55.2	16.6	41.1	29.4	26.3	15.1
(WY)	2001	2001	2001	2000	2000	2000	2000	2000	2001	2001	2001	2000
MIN	1.65	1.27	10.5	21.3	36.6	21.4	6.62	5.10	2.71	4.47	2.19	.071
(WY)	2000	2000	2000	2001	2001	2001	2001	1999	1999	1999	1999	1999

03254550 BANKLICK CREEK AT HIGHWAY 1829 NEAR ERLANGER, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	12765.97		8057.73			
ANNUAL MEAN	34.9		22.1		26.6	
HIGHEST ANNUAL MEAN					31.1	2000
LOWEST ANNUAL MEAN					22.1	2001
HIGHEST DAILY MEAN	2130	Feb 18	925	Dec 16	2130	Feb 18 2000
LOWEST DAILY MEAN	.17	Sep 7	.54	Nov 3	.00	Sep 21 1999
ANNUAL SEVEN-DAY MINIMUM	.20	Sep 4	.66	Oct 28	.00	Sep 21 1999
MAXIMUM PEAK FLOW			2670	Dec 16	6040	Feb 18 2000
MAXIMUM PEAK STAGE			8.04	Dec 16	9.34	Feb 18 2000
10 PERCENT EXCEEDS	55		38		38	
50 PERCENT EXCEEDS	7.0		8.2		5.8	
90 PERCENT EXCEEDS	.68		1.9		.38	

e Estimated



03254550 BANKLICK CREEK AT HIGHWAY 1829 NEAR ERLANGER, KY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 2000 to September 2001.

COOPERATION.--Northern Kentucky Sanitation District No. 1.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 2000 to September 2001.
pH:December 2000 to September 2001.
WATER TEMPERATURES: December 2000 to September 2001.
DISSOLVED OXYGEN: December 2000 to September 2001.
TURBIDITY: December 2000 to September 2001.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1280 microsiemens, Dec. 13, 2000; minimum, 205 microsiemens, Aug. 6, 2001.
pH.--Maximum, 8.7 units, Jan. 5-10, 2001; minimum, 7.4 units, May 17-18, 2001.
WATER TEMPERATURES: Maximum, 32.7°C, Aug. 8, 2001; minimum, 0.0°C, several days in December 2000 and Jan. and Feb. 2, 3, 18, 2001.
DISSOLVED OXYGEN: Maximum, 22.3 mg/L, Feb. 28, 2001; minimum, 4.2 mg/L, Sept. 10, 2001.
TURBIDITY: Maximum, 1000 NTU, several days in 2001; minimum, 1.0 NTU, Feb. 28, 2001.

REMARKS.--There were several periods of missing data because of equipment failure. Records are rated poor.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	662	656	659	785	759	779
2	---	---	---	---	---	---	667	659	663	808	784	799
3	---	---	---	---	---	---	680	661	666	809	787	801
4	---	---	---	---	---	---	695	679	687	806	770	786
5	---	---	---	---	---	---	692	679	687	770	735	753
6	---	---	---	---	---	---	708	686	699	735	710	720
7	---	---	---	---	---	---	712	697	707	740	714	724
8	---	---	---	---	---	---	703	693	698	746	730	738
9	---	---	---	---	---	---	728	697	712	788	746	774
10	---	---	---	---	---	---	716	692	707	837	733	810
11	---	---	---	---	---	---	699	458	647	841	800	821
12	---	---	---	---	---	---	489	453	466	833	755	779
13	---	---	---	---	---	---	1280	489	601	767	731	752
14	---	---	---	---	---	---	965	652	820	735	722	731
15	---	---	---	---	---	---	795	720	745	723	677	703
16	---	---	---	---	---	---	750	212	416	743	702	719
17	---	---	---	---	---	---	586	353	462	707	688	699
18	---	---	---	---	---	---	636	585	613	702	669	690
19	---	---	---	---	---	---	770	630	711	730	666	696
20	---	---	---	---	---	---	791	735	769	958	730	809
21	---	---	---	---	---	---	780	733	755	1010	922	964
22	---	---	---	---	---	---	830	747	779	1010	923	965
23	---	---	---	---	---	---	853	788	821	959	861	919
24	---	---	---	---	---	---	793	755	764	861	791	826
25	---	---	---	---	---	---	794	766	784	796	748	774
26	---	---	---	---	---	---	793	758	781	815	756	786
27	---	---	---	---	---	---	759	713	736	834	762	783
28	---	---	---	---	---	---	728	712	722	928	834	882
29	---	---	---	---	---	---	736	722	729	895	637	806
30	---	---	---	---	---	---	726	692	713	692	455	522
31	---	---	---	---	---	---	769	694	707	587	518	541
MONTH	---	---	---	---	---	---	1280	212	691	1010	455	769

03254550 BANKLICK CREEK AT HIGHWAY 1829 NEAR ERLANGER, KY--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	664	587	636	660	619	643	644	622	633	731	695	715
2	682	663	674	659	610	639	649	631	639	728	696	714
3	774	676	709	657	599	632	673	641	660	726	698	714
4	694	671	683	657	428	588	681	657	670	728	687	711
5	680	663	671	578	424	507	692	664	680	704	676	692
6	689	665	678	686	578	625	695	659	680	709	671	696
7	674	651	666	711	658	684	672	607	637	696	666	683
8	680	644	665	677	636	659	668	632	651	682	579	611
9	735	555	651	657	622	643	683	629	662	678	601	630
10	587	458	521	647	617	635	707	655	690	774	678	734
11	647	587	620	646	596	626	728	670	704	821	774	803
12	658	643	651	636	616	626	713	656	689	942	736	809
13	667	645	656	668	602	630	704	659	684	757	741	749
14	---	---	---	668	626	650	694	657	677	777	748	765
15	---	---	---	691	649	670	687	667	679	807	769	788
16	707	555	666	700	651	680	684	642	669	835	791	824
17	595	522	552	688	669	679	673	650	661	857	798	829
18	637	595	619	719	684	702	672	645	660	853	300	611
19	647	628	639	736	689	715	670	647	658	714	383	611
20	654	620	641	704	664	688	666	654	661	943	714	853
21	656	615	639	---	---	---	671	637	657	1040	908	961
22	649	632	641	675	643	661	677	647	663	951	725	810
23	717	644	684	686	654	670	691	662	676	835	768	815
24	720	614	680	688	647	669	686	666	677	847	567	704
25	763	593	645	666	640	654	683	656	673	713	602	669
26	645	596	618	655	636	646	687	661	678	905	713	768
27	664	635	652	651	633	642	700	668	688	826	598	652
28	675	624	654	646	629	638	712	684	699	696	652	669
29	---	---	---	650	624	638	715	692	706	754	649	736
30	---	---	---	643	631	636	724	700	712	799	753	779
31	---	---	---	649	618	636	---	---	---	806	769	793
MONTH	---	---	---	---	---	---	728	607	672	1040	300	739

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	793	359	523	781	746	766	599	551	584	---	---	---
2	696	593	636	843	766	804	614	583	599	565	505	539
3	738	651	703	822	740	789	756	474	583	592	565	582
4	785	377	640	777	698	750	569	529	552	689	565	605
5	672	344	637	721	673	683	573	546	561	587	549	571
6	726	226	471	713	692	703	625	205	592	611	586	599
7	535	424	499	---	---	---	654	604	632	---	---	---
8	535	524	529	---	---	---	670	627	658	---	---	---
9	552	533	545	---	---	---	719	655	694	---	---	---
10	609	548	592	---	---	---	760	599	665	607	473	502
11	637	600	622	---	---	---	623	594	612	578	485	527
12	659	613	641	749	683	729	---	---	---	631	578	611
13	690	593	619	792	740	772	---	---	---	655	631	648
14	669	613	645	789	741	771	677	613	644	686	654	676
15	724	479	661	786	743	772	696	677	689	695	674	683
16	613	480	552	794	758	784	748	689	722	714	682	699
17	704	613	663	813	779	799	762	707	739	719	689	706
18	765	704	745	802	217	373	772	443	743	717	525	664
19	798	763	785	484	343	418	460	210	356	571	521	533
20	837	788	816	540	484	515	526	460	505	569	529	543
21	876	785	849	574	540	565	576	526	555	618	569	598
22	1000	750	822	707	423	554	621	576	606	649	618	639
23	767	736	753	482	432	451	631	617	623	652	644	648
24	777	740	761	497	448	477	638	612	629	721	562	614
25	797	765	784	519	489	510	628	604	618	599	562	588
26	850	789	825	605	390	444	677	243	516	616	596	610
27	888	830	864	559	500	542	714	251	379	636	616	629
28	892	833	873	585	475	543	504	440	479	651	633	644
29	987	812	874	530	478	497	543	504	527	659	640	652
30	971	750	819	552	497	532	626	533	573	695	651	676
31	---	---	---	582	544	564	---	---	---	---	---	---
MONTH	1000	226	692	---	---	---	---	---	---	---	---	---
YEAR	1280	205	671									

03254550 BANKLICK CREEK AT HIGHWAY 1829 NEAR ERLANGER, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	8.4	8.3	8.4	8.6	8.5	8.5
2	---	---	---	---	---	---	8.5	8.3	8.4	8.6	8.5	8.5
3	---	---	---	---	---	---	8.5	8.4	8.4	8.6	8.5	8.5
4	---	---	---	---	---	---	8.5	8.3	8.4	8.6	8.5	8.5
5	---	---	---	---	---	---	8.5	8.4	8.4	8.7	8.5	8.6
6	---	---	---	---	---	---	8.5	8.3	8.4	8.7	8.6	8.6
7	---	---	---	---	---	---	8.5	8.4	8.4	8.7	8.6	8.6
8	---	---	---	---	---	---	8.5	8.4	8.4	8.7	8.6	8.6
9	---	---	---	---	---	---	8.5	8.3	8.4	8.7	8.6	8.6
10	---	---	---	---	---	---	8.5	8.4	8.4	8.7	7.8	8.3
11	---	---	---	---	---	---	8.5	8.3	8.4	8.2	8.0	8.1
12	---	---	---	---	---	---	8.4	8.2	8.3	8.2	8.0	8.1
13	---	---	---	---	---	---	8.5	8.4	8.4	8.2	8.1	8.1
14	---	---	---	---	---	---	8.4	8.4	8.4	8.2	8.1	8.1
15	---	---	---	---	---	---	8.6	8.4	8.5	8.3	8.1	8.2
16	---	---	---	---	---	---	8.4	7.9	8.1	8.3	8.1	8.2
17	---	---	---	---	---	---	8.3	8.2	8.3	8.3	8.1	8.2
18	---	---	---	---	---	---	8.4	8.3	8.3	8.3	8.1	8.2
19	---	---	---	---	---	---	8.4	8.4	8.4	8.2	8.1	8.2
20	---	---	---	---	---	---	8.5	8.4	8.4	8.3	8.1	8.2
21	---	---	---	---	---	---	8.5	8.4	8.5	8.2	8.0	8.1
22	---	---	---	---	---	---	8.5	8.4	8.4	8.3	8.1	8.2
23	---	---	---	---	---	---	8.4	8.4	8.4	8.3	8.1	8.2
24	---	---	---	---	---	---	8.5	8.4	8.5	8.4	8.1	8.2
25	---	---	---	---	---	---	8.5	8.4	8.4	8.4	8.2	8.3
26	---	---	---	---	---	---	8.5	8.4	8.4	8.3	8.1	8.2
27	---	---	---	---	---	---	8.5	8.4	8.5	8.4	8.2	8.3
28	---	---	---	---	---	---	8.5	8.5	8.5	8.4	8.1	8.2
29	---	---	---	---	---	---	8.5	8.5	8.5	8.5	8.1	8.3
30	---	---	---	---	---	---	8.5	8.5	8.5	8.1	8.0	8.1
31	---	---	---	---	---	---	8.5	8.5	8.5	8.2	8.1	8.1
MONTH	---	---	---	---	---	---	8.6	7.9	8.4	8.7	7.8	8.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.3	8.1	8.2	8.5	8.1	8.3	8.5	8.1	8.2	8.3	7.6	7.9
2	8.4	8.1	8.3	8.6	8.1	8.3	8.5	8.1	8.3	8.2	7.6	7.9
3	8.4	8.2	8.3	8.6	8.1	8.3	8.4	8.1	8.2	8.2	7.6	7.9
4	8.4	8.2	8.3	8.3	8.1	8.2	8.4	8.0	8.2	8.2	7.6	7.9
5	8.4	8.2	8.3	8.3	8.1	8.2	8.3	8.0	8.1	8.1	7.6	7.8
6	8.5	8.2	8.3	8.4	8.2	8.3	8.3	7.9	8.1	8.1	7.6	7.8
7	8.5	8.2	8.3	8.5	8.2	8.3	8.5	7.9	8.1	8.2	7.5	7.8
8	8.6	8.2	8.3	8.5	8.1	8.3	8.4	7.9	8.1	8.3	7.5	8.0
9	8.6	8.1	8.3	8.5	8.1	8.3	8.4	7.9	8.1	8.4	7.8	8.1
10	8.4	8.1	8.2	8.5	8.1	8.3	8.3	7.9	8.1	8.2	7.7	8.0
11	8.5	8.2	8.3	8.6	8.1	8.3	8.4	7.9	8.1	8.2	7.7	7.9
12	8.5	8.2	8.3	8.5	8.1	8.3	8.4	7.9	8.1	8.2	7.6	7.9
13	8.5	8.1	8.3	8.6	8.1	8.3	8.4	7.8	8.1	8.3	7.8	8.0
14	---	---	---	8.6	8.1	8.3	8.3	7.8	8.0	8.2	7.8	7.9
15	---	---	---	8.6	8.0	8.3	8.2	7.7	7.9	8.1	7.6	7.9
16	8.3	8.1	8.2	8.6	8.2	8.4	8.4	7.9	8.1	8.0	7.6	7.7
17	8.4	8.1	8.2	8.5	8.2	8.3	8.3	7.9	8.1	7.7	7.4	7.5
18	8.4	8.1	8.2	8.6	8.2	8.4	8.4	8.0	8.2	8.0	7.4	7.7
19	8.4	8.1	8.2	8.6	8.2	8.4	8.3	7.9	8.1	7.9	7.7	7.8
20	8.5	8.1	8.2	8.6	8.2	8.4	8.2	7.8	8.0	8.0	7.8	7.9
21	8.5	8.1	8.3	---	---	---	8.3	7.8	8.0	8.0	7.8	7.8
22	8.5	8.1	8.2	8.5	8.1	8.3	8.2	7.6	7.9	8.1	7.9	8.0
23	8.5	8.1	8.3	8.5	8.1	8.3	8.2	7.5	7.9	8.1	7.9	8.0
24	8.6	8.1	8.3	8.5	8.1	8.3	8.3	7.6	7.9	8.0	7.9	8.0
25	8.2	8.0	8.1	8.4	8.1	8.3	8.4	7.7	8.0	8.2	7.9	8.0
26	8.6	8.1	8.3	8.4	8.2	8.3	8.5	7.7	8.1	8.2	7.9	8.0
27	8.6	8.1	8.3	8.4	8.2	8.3	8.4	7.7	8.0	8.2	8.0	8.1
28	8.6	8.1	8.3	8.4	8.2	8.3	8.4	7.7	8.0	8.3	8.0	8.2
29	---	---	---	8.4	8.1	8.3	8.4	7.7	8.0	8.3	8.0	8.1
30	---	---	---	8.4	8.1	8.3	8.4	7.7	8.0	8.3	8.0	8.1
31	---	---	---	8.4	8.1	8.3	---	---	---	8.2	7.9	8.1
MONTH	---	---	---	---	---	---	8.5	7.5	8.1	8.4	7.4	7.9

03254550 BANKLICK CREEK AT HIGHWAY 1829 NEAR ERLANGER, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.1	7.8	8.0	8.5	8.0	8.2	8.4	7.9	8.1	8.2	8.0	8.1
2	8.3	8.1	8.1	8.4	8.0	8.2	8.3	8.0	8.2	8.3	8.1	8.2
3	8.3	8.1	8.2	8.5	8.0	8.2	8.4	7.9	8.1	8.3	8.1	8.2
4	8.2	8.0	8.1	8.5	8.1	8.3	8.4	8.0	8.2	8.3	8.1	8.2
5	8.2	7.9	8.1	8.6	8.3	8.4	8.2	7.8	8.0	8.4	8.1	8.2
6	8.1	7.5	7.9	8.6	8.2	8.4	8.1	7.8	7.9	8.3	8.1	8.2
7	8.0	7.8	7.9	---	---	---	8.3	7.6	7.9	8.3	8.0	8.2
8	8.0	7.9	8.0	---	---	---	8.2	7.9	8.0	8.2	8.0	8.1
9	8.1	7.9	8.0	---	---	---	8.2	7.8	8.0	8.3	7.9	8.1
10	8.1	7.9	8.0	---	---	---	8.3	7.8	8.0	8.1	8.0	8.0
11	8.1	7.8	8.0	---	---	---	8.3	7.9	8.1	8.4	7.9	8.1
12	8.1	7.8	7.9	8.6	8.4	8.5	8.1	7.8	7.9	8.4	8.1	8.2
13	8.2	7.8	8.0	8.6	8.3	8.4	8.2	7.9	8.0	8.3	8.0	8.2
14	8.2	7.9	8.0	8.5	8.1	8.4	8.2	7.8	8.0	8.3	8.1	8.2
15	8.1	7.8	8.0	8.6	8.1	8.3	8.1	7.9	8.0	8.3	8.1	8.2
16	8.2	7.9	8.0	8.6	8.0	8.3	8.1	7.8	8.0	8.2	8.0	8.1
17	8.2	7.9	8.1	8.5	8.0	8.2	8.1	7.8	8.0	8.2	7.9	8.0
18	8.1	7.9	8.0	8.3	7.8	8.0	8.1	7.8	7.9	8.1	7.9	8.0
19	8.1	7.9	8.0	8.2	7.9	8.1	8.1	7.8	8.0	8.1	8.0	8.1
20	8.1	7.8	8.0	8.3	8.0	8.1	8.2	8.0	8.1	8.4	8.0	8.1
21	8.1	7.8	7.9	8.3	8.0	8.1	8.3	8.0	8.1	8.4	8.1	8.2
22	8.2	7.9	8.1	8.2	7.9	8.0	8.3	8.0	8.1	8.3	8.0	8.2
23	8.3	8.0	8.2	8.2	7.8	8.0	8.2	8.0	8.1	8.3	8.0	8.2
24	8.3	8.0	8.2	8.1	7.7	7.9	8.2	8.0	8.1	8.3	8.0	8.2
25	8.2	7.9	8.1	8.1	7.7	7.9	8.2	7.9	8.1	8.4	8.2	8.3
26	8.3	7.9	8.1	8.4	7.8	8.1	8.4	7.9	8.2	8.4	8.2	8.3
27	8.3	7.9	8.1	8.6	8.2	8.4	8.4	7.9	8.2	8.4	8.2	8.3
28	8.5	7.8	8.1	8.3	8.1	8.2	8.6	8.2	8.4	8.3	8.0	8.2
29	8.6	7.9	8.2	8.4	8.2	8.2	8.6	8.2	8.4	8.3	8.0	8.1
30	8.6	8.0	8.3	8.4	8.1	8.2	8.5	8.1	8.3	8.2	8.0	8.1
31	---	---	---	8.4	8.0	8.2	8.1	7.9	8.0	---	---	---
MONTH	8.6	7.5	8.1	---	---	---	8.6	7.6	8.1	8.4	7.9	8.2
YEAR	8.7	7.4	8.2									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	3.9	2.5	3.1	.1	.0	.0
2	---	---	---	---	---	---	3.2	1.8	2.7	.1	.0	.0
3	---	---	---	---	---	---	2.2	.0	1.0	.1	.0	.0
4	---	---	---	---	---	---	.3	.0	.1	.0	.0	.0
5	---	---	---	---	---	---	1.7	.1	.6	.1	.0	.0
6	---	---	---	---	---	---	.5	.0	.1	.2	.0	.0
7	---	---	---	---	---	---	.5	.0	.2	.2	.0	.1
8	---	---	---	---	---	---	1.0	.0	.5	.3	.0	.1
9	---	---	---	---	---	---	.6	.0	.2	.3	.0	.1
10	---	---	---	---	---	---	1.4	.0	.5	.2	.0	.0
11	---	---	---	---	---	---	4.5	1.2	2.2	.2	.0	.0
12	---	---	---	---	---	---	4.5	1.0	2.2	.3	.0	.1
13	---	---	---	---	---	---	1.0	.0	.3	.3	.0	.1
14	---	---	---	---	---	---	1.7	.4	1.2	.1	.0	.0
15	---	---	---	---	---	---	3.0	1.4	2.1	.2	.0	.0
16	---	---	---	---	---	---	6.8	2.9	5.3	.2	.0	.0
17	---	---	---	---	---	---	6.7	.0	3.0	.3	.0	.1
18	---	---	---	---	---	---	.4	.0	.1	.6	.0	.2
19	---	---	---	---	---	---	.3	.0	.1	.2	.0	.1
20	---	---	---	---	---	---	.2	.0	.0	.1	.0	.0
21	---	---	---	---	---	---	.4	.0	.1	.2	.0	.0
22	---	---	---	---	---	---	.1	.0	.0	.2	.0	.0
23	---	---	---	---	---	---	.1	.0	.0	.2	.0	.0
24	---	---	---	---	---	---	.2	.0	.0	.4	.0	.1
25	---	---	---	---	---	---	.2	.0	.0	.3	.0	.1
26	---	---	---	---	---	---	.1	.0	.0	.1	.0	.0
27	---	---	---	---	---	---	.1	.0	.0	.4	.0	.1
28	---	---	---	---	---	---	.1	.0	.0	.2	.0	.0
29	---	---	---	---	---	---	.1	.0	.0	.5	.0	.1
30	---	---	---	---	---	---	.0	.0	.0	4.3	.0	2.1
31	---	---	---	---	---	---	.1	.0	.0	4.4	3.4	4.0
MONTH	---	---	---	---	---	---	6.8	.0	.8	4.4	.0	.2

03254550 BANKLICK CREEK AT HIGHWAY 1829 NEAR ERLANGER, KY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.9	2.9	3.8	6.3	1.7	3.9	13.3	8.8	10.8	24.0	17.1	20.3
2	2.9	.0	1.8	7.8	4.4	5.8	12.9	6.6	9.7	24.5	18.3	21.3
3	1.0	.0	.4	9.1	5.7	7.2	16.1	10.1	12.4	25.6	18.9	22.1
4	2.8	.4	1.4	7.7	5.5	6.5	16.6	8.9	12.4	26.5	20.5	23.1
5	2.3	1.2	1.7	5.5	2.6	4.4	17.4	9.1	13.1	26.9	20.1	23.3
6	3.5	1.4	2.2	4.3	1.6	2.7	18.7	14.9	16.5	26.3	20.5	23.4
7	3.2	.2	1.6	6.6	2.2	3.8	23.0	14.8	18.4	24.6	21.1	22.8
8	6.7	1.2	3.7	7.5	2.0	4.4	22.6	17.9	20.0	24.2	18.7	21.1
9	10.3	5.8	7.8	6.2	2.6	4.3	24.2	17.4	20.4	24.4	16.6	20.3
10	8.7	3.3	5.7	8.1	1.2	4.2	21.7	18.9	20.2	25.3	17.8	21.2
11	4.1	1.2	2.6	10.3	3.2	6.3	24.1	18.2	20.8	26.1	19.3	22.4
12	4.4	1.3	2.8	7.5	4.7	6.2	24.2	19.1	21.3	23.3	19.7	21.5
13	5.9	4.1	4.9	9.8	6.5	7.9	23.0	16.7	19.7	21.8	15.5	18.7
14	---	---	---	12.1	5.6	8.4	21.2	14.4	17.8	21.9	15.4	18.7
15	---	---	---	9.7	6.7	8.1	19.4	14.9	16.9	24.4	17.7	20.6
16	7.3	5.4	6.7	9.8	7.8	8.8	17.9	12.0	14.6	23.0	20.4	21.5
17	5.4	1.5	3.6	8.8	5.6	7.0	14.0	9.4	10.8	22.5	19.8	21.2
18	3.8	.0	1.4	10.7	3.7	6.7	14.7	7.0	10.4	23.7	19.4	20.6
19	5.8	.5	2.6	9.8	3.5	6.7	16.3	8.5	12.1	19.8	18.8	19.2
20	6.7	3.1	4.6	8.3	5.8	7.2	14.4	12.0	13.0	23.5	17.0	20.0
21	6.7	3.5	5.0	---	---	---	20.0	13.5	16.2	21.7	19.2	20.5
22	3.7	1.8	2.5	12.9	5.7	9.0	23.1	17.0	19.6	21.7	17.8	19.7
23	6.4	1.9	3.6	13.7	6.2	9.6	23.7	17.6	20.5	18.4	15.2	16.5
24	8.3	3.2	5.2	12.8	8.4	10.0	21.3	16.6	18.9	18.0	13.6	15.9
25	11.5	8.3	9.7	10.4	4.9	7.3	20.2	12.3	16.1	19.0	13.9	16.3
26	9.6	5.9	7.6	6.9	2.9	5.0	20.2	12.0	15.9	19.6	14.5	16.8
27	7.5	4.9	6.2	8.6	2.7	5.4	21.8	13.6	17.4	17.8	14.3	16.0
28	7.7	3.6	5.4	10.2	2.5	6.4	21.8	15.1	18.3	21.4	13.4	16.9
29	---	---	---	10.0	6.8	8.4	21.7	13.2	17.4	23.0	15.0	18.7
30	---	---	---	11.8	6.2	9.2	22.8	14.2	18.2	22.6	16.7	19.6
31	---	---	---	13.1	8.8	10.9	---	---	---	19.5	15.3	16.8
MONTH	---	---	---	---	---	---	24.2	6.6	16.3	26.9	13.4	19.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.1	15.4	16.4	28.9	24.7	26.6	30.6	24.9	27.7	---	---	---
2	17.5	14.0	15.3	27.7	21.3	24.5	30.6	25.9	28.1	25.5	19.1	21.7
3	18.3	14.0	16.0	25.3	20.8	23.3	28.8	22.6	26.9	23.9	19.3	21.5
4	16.8	15.1	15.7	25.0	21.5	22.9	30.8	24.1	26.9	25.3	21.1	22.9
5	19.7	15.1	16.9	28.6	21.5	24.5	30.2	23.3	26.7	26.7	20.8	23.3
6	19.7	16.9	18.3	27.4	20.2	23.9	30.5	25.0	27.6	---	---	---
7	19.6	17.1	18.0	---	---	---	31.7	26.4	28.8	---	---	---
8	22.6	16.9	19.3	---	---	---	32.7	26.7	29.4	---	---	---
9	23.4	15.9	19.4	---	---	---	31.2	27.2	28.8	---	---	---
10	25.0	16.4	20.4	---	---	---	29.0	26.9	27.9	24.7	21.1	22.6
11	26.7	18.0	21.9	---	---	---	---	---	---	24.4	18.2	21.0
12	28.8	20.9	24.3	26.5	21.5	23.9	---	---	---	23.7	17.8	20.8
13	27.3	21.6	24.4	27.6	20.0	23.7	---	---	---	24.3	18.7	21.4
14	30.1	22.0	25.5	28.7	20.3	24.2	28.3	22.6	25.1	22.4	18.3	20.3
15	30.0	23.3	25.5	28.3	20.9	24.3	27.5	21.1	24.2	21.9	16.0	18.7
16	28.4	21.5	24.3	28.0	21.7	24.7	25.6	22.5	24.1	21.8	15.8	18.5
17	28.9	20.6	24.3	28.7	23.6	25.9	27.0	21.8	24.2	21.7	16.4	18.8
18	28.7	20.0	24.0	27.2	21.2	22.8	26.1	21.2	23.7	20.4	18.6	19.2
19	29.6	21.0	25.0	26.8	22.6	24.2	23.4	19.8	21.3	19.8	18.5	19.0
20	27.0	23.7	24.7	29.9	23.0	25.8	23.2	19.6	21.1	22.0	17.1	19.2
21	25.2	21.7	23.0	30.1	23.2	26.4	25.3	18.2	21.4	21.0	17.1	19.1
22	22.7	20.9	21.8	28.3	24.8	26.2	24.0	20.2	21.9	21.7	17.9	19.6
23	22.9	18.6	20.7	30.6	23.9	26.8	24.7	21.8	23.1	22.6	17.1	19.6
24	26.7	18.2	22.1	29.5	25.1	27.4	27.5	21.7	24.2	21.3	16.0	18.6
25	28.2	20.1	23.9	30.8	26.0	28.3	27.4	22.7	24.7	16.0	13.8	14.8
26	28.0	21.2	24.5	28.4	24.1	25.1	25.3	22.5	23.6	15.7	12.6	14.1
27	28.7	22.5	25.4	28.4	21.6	24.7	25.5	21.8	23.3	17.9	12.5	14.9
28	29.6	23.3	26.1	---	---	---	26.9	20.9	23.6	16.9	12.5	14.7
29	29.7	23.6	26.4	26.8	23.0	24.3	26.9	22.4	24.4	18.2	12.4	15.1
30	29.5	24.0	26.6	29.2	22.6	25.5	27.5	22.6	24.9	18.4	12.8	15.5
31	---	---	---	30.4	23.8	26.8	---	---	---	---	---	---
MONTH	30.1	14.0	22.0	---	---	---	---	---	---	---	---	---
YEAR	32.7	.0	13.6									

03254550 BANKLICK CREEK AT HIGHWAY 1829 NEAR ERLANGER, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	13.4	11.5	12.3	14.5	13.9	14.2
2	---	---	---	---	---	---	13.9	11.6	12.6	14.7	13.9	14.3
3	---	---	---	---	---	---	14.7	12.4	13.4	14.6	13.8	14.2
4	---	---	---	---	---	---	14.4	13.2	13.7	14.4	13.7	13.9
5	---	---	---	---	---	---	14.6	12.9	13.6	14.4	13.5	13.9
6	---	---	---	---	---	---	14.9	13.2	13.8	14.6	13.6	13.9
7	---	---	---	---	---	---	14.4	13.1	13.6	14.4	13.6	13.8
8	---	---	---	---	---	---	13.9	12.6	13.2	14.5	13.6	13.9
9	---	---	---	---	---	---	14.4	13.1	13.6	14.9	13.7	14.1
10	---	---	---	---	---	---	14.2	13.0	13.7	14.6	13.3	14.0
11	---	---	---	---	---	---	13.6	11.1	12.2	14.8	13.1	13.9
12	---	---	---	---	---	---	14.0	11.1	12.8	14.8	13.1	13.8
13	---	---	---	---	---	---	14.8	13.6	14.3	14.9	13.5	14.0
14	---	---	---	---	---	---	13.9	13.4	13.7	14.4	13.4	13.7
15	---	---	---	---	---	---	14.1	12.7	13.5	14.5	13.1	13.7
16	---	---	---	---	---	---	12.7	11.4	12.1	14.6	13.4	13.9
17	---	---	---	---	---	---	14.2	11.4	13.0	15.0	13.4	14.0
18	---	---	---	---	---	---	14.4	13.8	14.1	15.0	13.4	13.9
19	---	---	---	---	---	---	14.3	13.7	14.0	14.2	13.1	13.6
20	---	---	---	---	---	---	14.2	14.0	14.1	14.6	13.5	13.8
21	---	---	---	---	---	---	14.2	13.8	14.0	15.3	13.3	13.9
22	---	---	---	---	---	---	14.6	13.9	14.3	15.5	13.4	14.1
23	---	---	---	---	---	---	14.6	14.1	14.4	15.6	13.4	14.2
24	---	---	---	---	---	---	14.6	14.1	14.3	15.4	13.3	14.0
25	---	---	---	---	---	---	14.7	14.4	14.5	15.5	13.3	14.1
26	---	---	---	---	---	---	14.6	14.1	14.3	15.4	13.2	13.9
27	---	---	---	---	---	---	14.4	13.9	14.1	15.9	13.2	14.2
28	---	---	---	---	---	---	14.5	13.8	14.2	16.2	13.3	14.3
29	---	---	---	---	---	---	14.3	13.7	14.0	15.8	12.9	14.0
30	---	---	---	---	---	---	14.3	13.6	14.0	13.4	11.9	12.6
31	---	---	---	---	---	---	14.3	13.9	14.0	12.5	11.9	12.1
MONTH	---	---	---	---	---	---	14.9	11.1	13.7	16.2	11.9	13.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	13.0	11.8	12.2	15.9	11.4	13.2	11.0	8.3	9.4	11.2	1.5	5.2
2	14.3	12.0	13.0	15.3	10.7	12.5	11.8	8.8	10.4	11.0	1.0	4.5
3	14.7	12.9	13.7	15.2	10.3	12.2	11.8	8.4	9.6	10.1	.9	5.3
4	14.7	12.3	13.2	12.0	10.3	11.1	11.9	8.4	9.9	8.7	1.5	4.9
5	14.1	12.2	12.9	12.6	11.6	12.2	12.4	8.4	10.1	8.2	4.0	5.6
6	14.8	12.1	13.1	14.3	12.3	13.0	10.7	7.7	8.7	9.6	4.2	6.2
7	16.2	12.1	13.7	14.7	11.7	13.0	10.5	7.2	8.8	8.6	4.0	6.0
8	15.1	10.5	12.8	14.9	11.4	13.0	11.0	7.1	8.7	7.8	4.3	6.4
9	13.3	9.1	10.9	15.1	11.6	13.1	11.2	7.0	8.6	11.1	2.5	7.3
10	11.6	10.0	11.1	15.6	11.4	13.3	10.2	6.9	8.2	8.6	1.4	5.3
11	14.0	11.6	12.6	15.0	10.4	12.7	11.6	6.7	8.5	8.7	2.0	5.8
12	13.9	11.0	12.4	13.9	10.5	11.9	11.2	6.2	8.1	7.8	3.6	5.7
13	---	---	---	13.9	10.5	11.7	12.4	6.1	8.5	8.8	1.6	6.5
14	---	---	---	14.0	9.8	11.8	11.4	6.4	8.5	7.3	1.1	5.1
15	---	---	---	13.6	8.6	10.8	9.4	5.9	7.5	6.8	.9	3.8
16	12.6	10.8	11.3	11.3	8.5	9.6	11.9	7.5	9.2	7.5	.2	2.1
17	13.9	11.6	12.8	11.8	8.9	10.4	12.1	7.8	9.9	7.8	.4	3.8
18	15.4	12.9	13.9	13.0	9.7	11.3	13.2	9.2	10.9	9.2	.4	3.9
19	15.4	11.9	13.6	12.9	9.5	11.2	12.2	8.4	10.0	8.2	7.6	8.0
20	15.0	11.1	12.9	12.3	9.5	10.6	10.2	7.6	8.7	8.6	6.6	7.8
21	15.8	11.2	13.1	---	---	---	10.4	6.7	8.6	8.1	6.6	7.3
22	16.0	12.0	13.6	12.0	8.7	10.3	12.4	6.3	8.3	8.3	6.7	7.6
23	16.5	11.9	13.8	11.7	8.2	9.9	10.9	5.4	7.8	9.2	7.4	8.2
24	15.9	10.5	13.1	11.0	8.1	9.4	11.6	5.6	8.2	8.6	7.5	7.9
25	10.6	9.8	10.2	11.8	8.8	10.3	14.2	6.4	9.5	8.9	7.5	8.2
26	14.1	10.4	11.9	12.4	9.7	11.1	17.1	6.9	10.2	9.6	7.2	8.2
27	18.1	10.9	13.3	12.4	9.9	11.2	14.7	6.7	9.2	8.9	7.2	8.1
28	22.3	18.0	19.7	12.2	9.1	10.8	12.2	6.2	8.6	9.9	7.5	8.7
29	---	---	---	11.2	8.9	10.0	12.3	5.3	8.5	10.5	7.3	8.7
30	---	---	---	11.3	8.5	9.9	12.6	5.8	8.7	10.4	7.3	8.6
31	---	---	---	11.1	8.3	9.5	---	---	---	9.9	7.1	8.6
MONTH	---	---	---	---	---	---	17.1	5.3	9.0	11.2	.2	6.4

03254550 BANKLICK CREEK AT HIGHWAY 1829 NEAR ERLANGER, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.9	7.7	8.4	10.1	5.3	7.2	10.0	5.5	7.3	---	---	---
2	9.1	8.3	8.7	10.3	5.3	7.3	10.4	6.1	7.8	8.8	6.9	7.8
3	9.6	8.2	8.9	9.5	5.7	7.1	8.3	6.0	7.1	8.9	6.5	7.8
4	9.6	8.1	8.8	8.6	5.8	6.8	9.7	6.6	7.9	9.1	6.3	7.2
5	9.6	8.3	9.0	9.7	6.2	7.5	10.2	6.4	8.0	9.1	6.2	7.2
6	10.1	8.5	9.2	10.7	5.8	7.6	11.2	6.1	8.2	---	---	---
7	10.2	9.4	9.8	---	---	---	9.7	5.5	7.6	---	---	---
8	9.8	8.6	9.2	---	---	---	10.0	5.4	7.3	---	---	---
9	9.8	8.3	9.1	---	---	---	9.0	5.3	6.9	---	---	---
10	10.4	8.0	9.1	---	---	---	8.4	5.2	6.6	6.4	4.2	5.3
11	11.1	7.4	9.1	---	---	---	9.9	6.1	7.7	---	---	---
12	11.1	7.0	8.8	9.7	5.9	7.5	---	---	---	8.3	5.1	6.4
13	9.6	6.8	8.0	10.4	6.3	7.8	---	---	---	8.3	5.2	6.5
14	10.6	6.5	8.3	10.5	6.1	7.7	10.5	6.5	8.0	8.6	5.6	6.7
15	10.2	6.2	7.5	12.5	5.8	7.8	10.4	6.2	8.0	9.2	5.6	6.7
16	7.9	6.6	7.4	12.0	5.7	8.0	9.6	6.1	7.5	9.0	5.7	6.9
17	9.7	6.6	7.9	9.6	5.4	7.2	9.5	5.8	7.4	9.3	5.8	7.0
18	10.7	6.6	8.2	7.8	6.0	6.9	9.4	5.7	7.2	8.3	5.5	6.4
19	11.0	6.4	8.1	6.9	6.1	6.5	8.5	7.0	7.6	7.6	6.2	6.8
20	9.1	5.8	7.2	7.0	5.6	6.4	8.0	6.7	7.4	9.7	6.4	7.6
21	9.4	5.9	7.0	7.6	5.3	6.5	8.9	6.3	7.6	---	---	---
22	9.3	6.3	7.7	8.2	5.6	6.3	9.5	6.2	7.2	11.4	6.2	8.2
23	11.0	7.0	8.6	6.8	5.5	6.3	9.1	5.9	7.0	12.8	8.1	9.6
24	12.2	6.8	8.9	7.0	5.4	6.1	9.2	5.7	7.0	9.0	7.7	8.5
25	10.4	6.2	8.0	7.8	5.2	6.2	8.9	5.2	6.5	10.4	8.9	9.5
26	12.0	6.0	8.0	7.4	5.3	6.7	6.9	5.3	6.1	12.2	9.1	10.2
27	11.6	5.8	7.7	8.5	6.4	7.6	6.5	5.9	6.2	12.0	8.9	10.0
28	13.0	5.6	7.7	8.0	6.3	7.1	7.2	5.4	6.3	11.7	8.9	10.0
29	11.8	5.3	7.9	7.7	6.6	7.3	7.6	5.1	6.2	11.3	9.0	10.0
30	12.2	5.0	7.7	8.1	5.9	7.2	8.6	5.2	6.6	10.9	8.9	9.8
31	---	---	---	8.8	5.7	7.0	---	---	---	---	---	---
MONTH	13.0	5.0	8.3	---	---	---	---	---	---	---	---	---
YEAR	22.3	.2	9.8									

TURBIDITY (NTU), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	25	11	12
2	---	---	---	---	---	---	---	---	---	15	11	12
3	---	---	---	---	---	---	---	---	---	14	10	12
4	---	---	---	---	---	---	---	---	---	15	11	12
5	---	---	---	---	---	---	---	---	---	14	11	12
6	---	---	---	---	---	---	---	---	---	15	11	13
7	---	---	---	---	---	---	---	---	---	17	12	13
8	---	---	---	---	---	---	---	---	---	18	13	14
9	---	---	---	---	---	---	---	---	---	16	12	13
10	---	---	---	---	---	---	---	---	---	54	8.0	13
11	---	---	---	---	---	---	---	---	---	41	7.0	8.3
12	---	---	---	---	---	---	---	---	---	41	7.0	8.1
13	---	---	---	---	---	---	140	43	68	14	7.0	7.9
14	---	---	---	---	---	---	150	56	85	12	7.0	8.2
15	---	---	---	---	---	---	82	35	45	27	12	16
16	---	---	---	---	---	---	>1000	39	---	24	14	17
17	---	---	---	---	---	---	320	92	150	22	10	13
18	---	---	---	---	---	---	100	64	76	13	9.0	10
19	---	---	---	---	---	---	74	48	55	52	10	32
20	---	---	---	---	---	---	61	37	45	36	21	25
21	---	---	---	---	---	---	58	25	38	25	13	18
22	---	---	---	---	---	---	210	23	56	20	11	13
23	---	---	---	---	---	---	190	18	54	13	10	11
24	---	---	---	---	---	---	20	16	17	15	9.0	11
25	---	---	---	---	---	---	22	15	16	15	10	11
26	---	---	---	---	---	---	19	14	15	18	10	11
27	---	---	---	---	---	---	16	13	14	19	8.0	11
28	---	---	---	---	---	---	18	13	14	19	9.0	11
29	---	---	---	---	---	---	16	12	13	>1000	9.0	---
30	---	---	---	---	---	---	23	12	13	>1000	54	---
31	---	---	---	---	---	---	16	11	13	130	9.0	58
MONTH	---	---	---	---	---	---	>1000	11	44	>1000	7.0	15

03254550 BANKLICK CREEK AT HIGHWAY 1829 NEAR ERLANGER, KY--Continued

TURBIDITY (NTU), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	42	5.0	11	100	18	35	420	65	120
2	---	---	---	19	6.0	9.4	40	11	17	560	36	120
3	---	---	---	20	7.0	12	80	11	18	---	---	---
4	---	---	---	730	11	230	97	11	19	130	44	71
5	---	---	---	360	38	110	69	4.0	23	330	49	94
6	---	---	---	55	13	28	130	3.0	14	190	51	77
7	---	---	---	32	3.0	17	96	14	40	130	49	88
8	---	---	---	26	5.0	17	---	---	---	880	94	220
9	---	---	---	27	4.0	15	---	---	---	310	59	90
10	980	56	350	20	9.0	15	---	---	---	190	62	88
11	64	20	33	38	5.0	15	52	11	21	120	45	79
12	24	13	17	35	5.0	16	46	11	20	140	65	94
13	---	---	---	72	2.0	15	62	11	28	94	59	75
14	---	---	---	22	3.0	9.2	100	16	32	190	59	100
15	---	---	---	39	9.0	18	93	20	31	140	50	87
16	330	31	110	32	21	24	66	18	30	180	51	100
17	230	40	95	38	19	24	40	15	22	160	49	100
18	44	22	30	130	13	24	34	13	18	>1000	19	---
19	27	13	19	36	13	19	81	9.0	22	>1000	190	---
20	29	14	22	27	7.8	15	120	17	26	220	95	150
21	30	11	22	29	13	15	26	9.3	16	290	93	150
22	27	16	19	68	14	18	91	11	19	340	130	220
23	22	6.0	17	150	15	26	71	11	29	170	87	120
24	25	11	19	180	17	29	110	16	40	>1000	95	---
25	780	21	240	120	17	25	82	9.5	31	470	130	220
26	130	42	69	24	12	18	79	13	31	500	78	140
27	47	15	29	140	14	21	110	18	44	>1000	180	---
28	21	1.0	11	25	16	19	110	29	57	210	95	130
29	---	---	---	26	16	19	330	32	97	130	58	87
30	---	---	---	38	14	18	260	40	85	150	56	83
31	---	---	---	110	13	22	---	---	---	100	54	74
MONTH	---	---	---	730	2.0	28	---	---	---	>1000	19	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	>1000	64	---	78	31	49	---	---	---	---	---	---
2	440	130	190	67	25	43	---	---	---	280	200	230
3	190	84	120	76	25	43	380	36	160	260	170	200
4	>1000	79	---	100	30	65	---	---	---	---	---	---
5	550	80	200	95	38	62	---	---	---	980	210	430
6	>1000	170	---	97	37	67	---	---	---	330	180	220
7	660	110	210	---	---	---	---	---	---	---	---	---
8	150	66	89	---	---	---	130	6.0	38	---	---	---
9	100	52	71	---	---	---	---	---	---	---	---	---
10	99	34	58	---	---	---	100	5.0	32	---	---	---
11	120	22	47	---	---	---	92	9.0	36	---	---	---
12	380	16	53	190	64	110	---	---	---	310	210	240
13	350	62	140	150	52	88	---	---	---	250	210	230
14	150	31	77	130	45	79	120	30	70	260	210	240
15	990	29	240	170	46	85	170	37	84	270	200	230
16	990	180	500	120	42	75	190	34	70	280	220	250
17	240	67	130	140	38	66	130	36	74	280	220	240
18	140	44	84	>1000	37	---	180	50	90	---	220	---
19	97	27	58	>1000	100	---	---	---	---	660	400	480
20	91	16	48	130	58	88	---	---	---	460	340	390
21	180	21	83	200	49	75	---	---	---	---	---	---
22	190	32	83	610	45	160	200	98	130	360	280	310
23	73	18	42	280	120	180	150	93	120	340	280	310
24	67	15	32	170	54	100	170	91	120	---	310	---
25	80	17	43	550	36	69	220	98	130	550	380	430
26	94	13	46	---	---	---	380	140	220	440	340	370
27	100	11	50	---	---	---	---	---	---	380	320	350
28	99	15	48	---	---	---	300	160	200	400	330	350
29	82	23	52	---	---	---	230	140	170	400	310	350
30	65	31	47	---	---	---	220	100	150	410	320	360
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	>1000	11	---	>1000	25	---	380	5.0	110	---	---	---
YEAR	>1000	1.0	85									

03260100 ELIJAHS CREEK AT ELIJAHS CREEK ROAD NEAR HEBRON, KY

LOCATION.--Lat 39°04'47", long 84°41'07", Boone County, Hydrologic Unit 05090203, at bridge on Elijahs Creek Road, 0.6 mi downstream from Interstate 275, 1.3 mi Northeast of Hebron, and 2.5 mi upstream from the mouth.

DRAINAGE AREA.--4.03 mi^2.

PERIOD OF RECORD.--October 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 759.085 ft above NGVD of 1929.

REMARKS.--2000: Records fair except for those estimated which are poor.
2001: Records fair except for those estimated which are poor.

COOPERATION.--Northern Kentucky Sanitation District No. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.14	.27	.16	14	3.4	2.0	.63	1.0	.16	.63	.65
2	.00	11	.16	6.0	6.2	2.9	e36	3.4	.79	.17	.11	1.4
3	.00	.86	.14	207	8.8	2.5	47	4.3	.66	.16	.23	1.4
4	1.3	.08	.76	35	2.7	2.3	19	8.5	.60	.73	.10	3.3
5	.01	.04	3.6	6.1	.27	2.1	6.3	1.3	1.9	19	.08	.94
6	.05	.03	.82	4.6	.38	1.7	4.1	1.1	.84	1.9	.27	.55
7	e.01	.03	.21	3.9	3.7	1.7	17	1.8	.61	.59	8.0	.58
8	.03	.05	.10	3.5	.98	1.5	52	1.6	.53	.26	8.2	.65
9	e76	.08	.09	2.9	.99	1.4	4.9	2.1	.53	.22	2.7	.92
10	e23	.14	17	2.9	2.5	1.2	2.9	10	.56	13	.99	1.6
11	.07	.17	.58	2.5	14	11	2.9	1.0	.58	4.9	.25	2.4
12	.00	.19	22	2.3	4.7	5.2	1.9	.80	1.1	.60	.16	7.4
13	1.4	.19	37	7.3	142	1.9	1.5	17	.66	.31	.21	1.1
14	.01	.22	30	2.5	31	1.3	1.3	1.5	e3.3	1.3	.13	.75
15	.00	.25	3.0	2.4	8.2	1.0	1.2	.77	1.1	.29	.12	.76
16	.00	.40	1.6	2.4	6.1	26	1.0	.55	33	.11	.18	.54
17	.00	.18	.49	2.2	6.1	6.1	3.7	14	47	.12	1.3	.47
18	.00	.17	.24	2.9	208	3.0	1.3	2.5	34	.11	3.5	.51
19	.00	.83	.11	3.0	17	28	.99	1.0	3.4	19	.43	.45
20	.00	2.5	3.8	3.6	7.8	37	32	.76	2.9	.69	.17	.89
21	.00	.27	.44	3.6	6.0	8.0	12	.93	4.6	.33	.20	3.4
22	.00	.21	.29	4.8	9.4	4.5	4.3	1.7	.81	.16	.26	.36
23	.00	.18	.11	7.9	5.4	3.3	2.3	3.9	.45	.11	.41	8.9
24	.06	.30	.21	5.5	7.3	2.6	1.7	.77	1.3	.11	.62	3.8
25	.00	.26	.93	7.3	4.7	2.2	1.3	.57	7.1	.09	.74	12
26	.03	5.3	2.2	8.0	4.3	1.8	.96	.47	.49	.14	.53	8.6
27	.02	.57	2.4	7.4	8.4	5.4	.81	92	.38	.11	.52	1.2
28	.03	.40	1.2	15	4.2	14	.71	16	.34	.93	.64	.61
29	.02	.36	2.2	25	3.6	3.9	.62	5.3	.21	1.5	.65	.33
30	.04	.38	1.4	39	---	2.8	.52	2.3	.17	.27	.64	.27
31	.02	---	.39	28	---	2.3	---	1.4	---	3.6	.65	---
MEAN	3.29	.86	4.31	14.7	18.6	6.19	8.81	6.45	5.03	2.29	1.08	2.22
MAX	76	11	37	207	208	37	52	92	47	19	8.2	12
MIN	.00	.03	.09	.16	.27	1.0	.52	.47	.17	.09	.08	.27

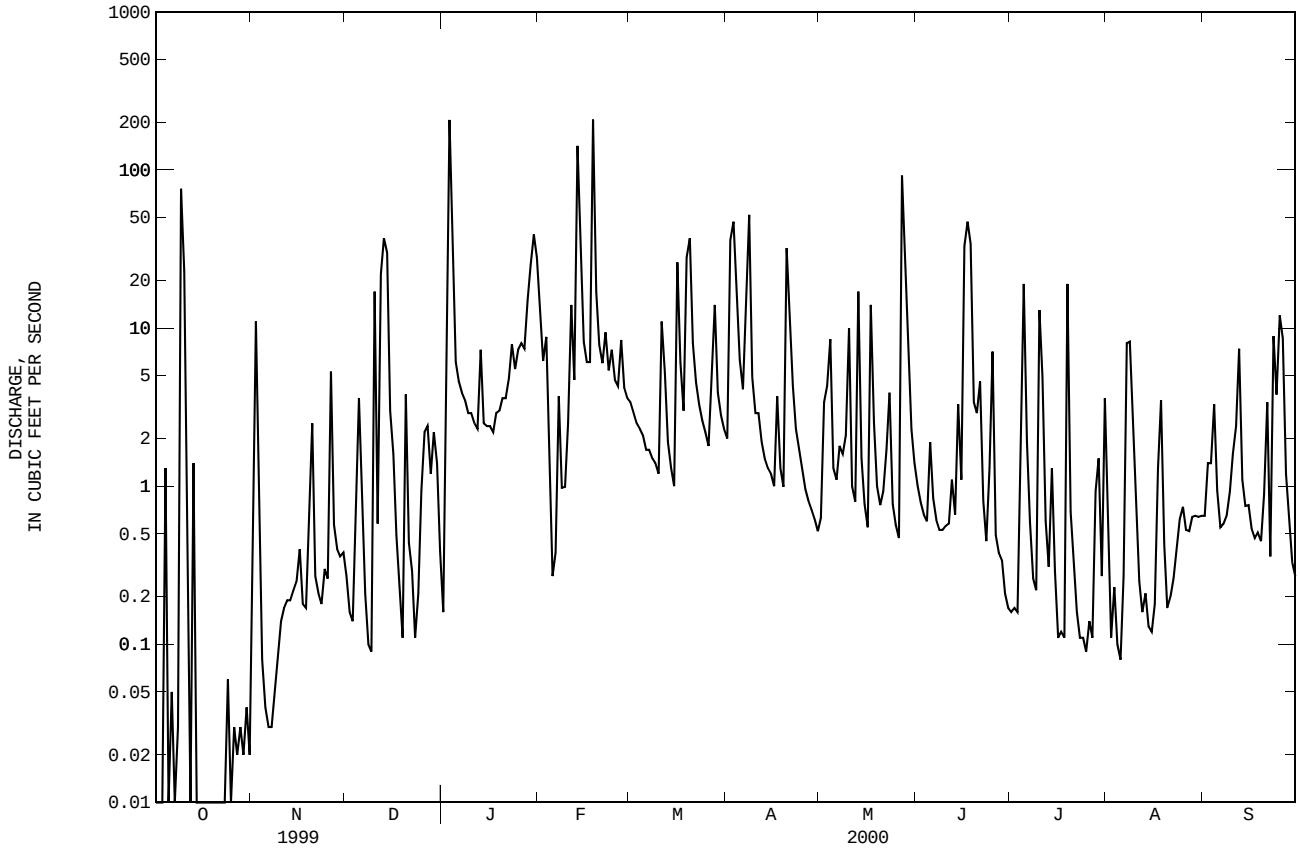
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2000, BY WATER YEAR (WY)

MEAN	3.29	.86	4.31	14.7	18.6	6.19	8.81	6.45	5.03	2.29	1.08	2.22
MAX	3.29	.86	4.31	14.7	18.6	6.19	8.81	6.45	5.03	2.29	1.08	2.22
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	3.29	.86	4.31	14.7	18.6	6.19	8.81	6.45	5.03	2.29	1.08	2.22
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000

03260100 ELIJAHS CREEK AT ELIJAHS CREEK ROAD NEAR HEBRON, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR	
ANNUAL MEAN			6.10	
HIGHEST DAILY MEAN	76	Oct 9	208	Feb 18
LOWEST DAILY MEAN	.00	Oct 2	.00	Oct 2
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 15	.00	Oct 15
MAXIMUM PEAK FLOW			861	Jan 3
MAXIMUM PEAK STAGE			5.57	Jan 3
10 PERCENT EXCEEDS	1.5		14	
50 PERCENT EXCEEDS	1.3		1.1	
90 PERCENT EXCEEDS	.04		.10	

e Estimated



03260100 ELIJAHS CREEK AT ELIJAHS CREEK ROAD NEAR HEBRON, KY--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	.78	.45	e.48	3.1	2.4	1.5	1.4	6.3	e.86	e.35	.00
2	.21	1.2	.11	e.46	2.7	1.1	5.7	.37	5.3	.69	e.27	.00
3	.22	2.8	.13	e.43	1.4	2.0	1.9	.17	1.7	1.0	e2.1	.00
4	2.3	.25	.11	e.41	2.0	8.5	1.6	.10	9.8	5.9	e1.1	.00
5	13	.27	.12	e.38	.84	3.8	.44	.09	5.1	.98	e.63	.00
6	1.2	1.6	.11	e.60	1.8	2.8	1.5	1.0	22	.34	e.40	.00
7	.47	5.8	.13	e.90	.73	1.3	.50	7.2	9.9	1.4	e.24	.00
8	.28	.47	.11	e1.3	.76	2.2	2.1	11	3.7	e5.2	.18	.00
9	.27	e5.0	.10	e.75	6.2	.91	.41	1.3	2.1	4.7	.37	.00
10	.29	e3.5	.12	e.46	9.3	.78	4.9	.80	1.3	.62	3.4	.00
11	.17	2.1	7.3	e.32	7.2	1.8	2.3	2.2	1.0	.32	3.1	.00
12	.26	1.6	2.8	e.25	1.1	2.1	.62	5.5	1.5	.26	12	.00
13	.15	.88	2.2	e.85	1.8	4.0	.27	4.1	3.1	.14	.09	.00
14	.32	.31	6.0	e2.4	4.7	.62	.70	8.1	.96	.08	.04	.00
15	.54	.14	3.7	e14	7.6	.47	7.4	5.9	4.7	.08	.00	.00
16	.70	.18	15	11	10	5.4	.49	4.6	1.6	.09	.00	.00
17	2.1	.30	9.9	6.6	4.3	2.0	1.5	7.3	.51	.08	.03	.00
18	.98	.27	6.4	1.7	3.4	.57	.33	11	.42	9.7	4.9	.00
19	.72	.33	1.7	12	1.4	.52	1.3	8.2	.40	5.6	13	.00
20	.75	.45	2.3	6.3	2.3	2.8	5.8	2.7	1.1	4.2	.33	.00
21	.66	.40	e1.8	1.2	.97	.89	.48	2.9	4.2	4.4	.11	.00
22	.55	.38	e1.5	e.80	.93	2.5	1.5	8.2	3.3	6.4	.10	.00
23	.64	.41	e1.2	e.64	2.0	1.1	.40	4.7	.55	1.5	6.4	.02
24	.67	.43	e.96	e.55	.83	.48	2.0	10	.36	.79	.28	.01
25	.73	8.0	e.82	e.48	18	.41	.26	3.0	.22	3.3	1.3	.00
26	.78	13	e.73	e.43	2.9	.62	.27	5.8	.23	6.2	2.7	.01
27	.72	1.3	e.65	e.39	2.8	.38	.27	8.7	.23	1.1	.67	.04
28	.88	.58	e.60	e.36	1.4	.36	.24	2.5	2.3	4.1	.35	.05
29	.76	.42	e.56	e.32	---	1.4	.19	1.3	1.9	4.9	.26	.03
30	.72	.64	e.52	15	---	.42	.21	.97	.91	.93	.00	.03
31	.77	---	e.50	9.3	---	.81	---	1.2	---	.54	.00	---
MEAN	1.06	1.79	2.21	2.94	3.66	1.79	1.57	4.27	3.22	2.46	1.76	.006
MAX	13	13	15	15	18	8.5	7.4	11	22	9.7	13	.05
MIN	.15	.14	.10	.25	.73	.36	.19	.09	.22	.08	.00	.00

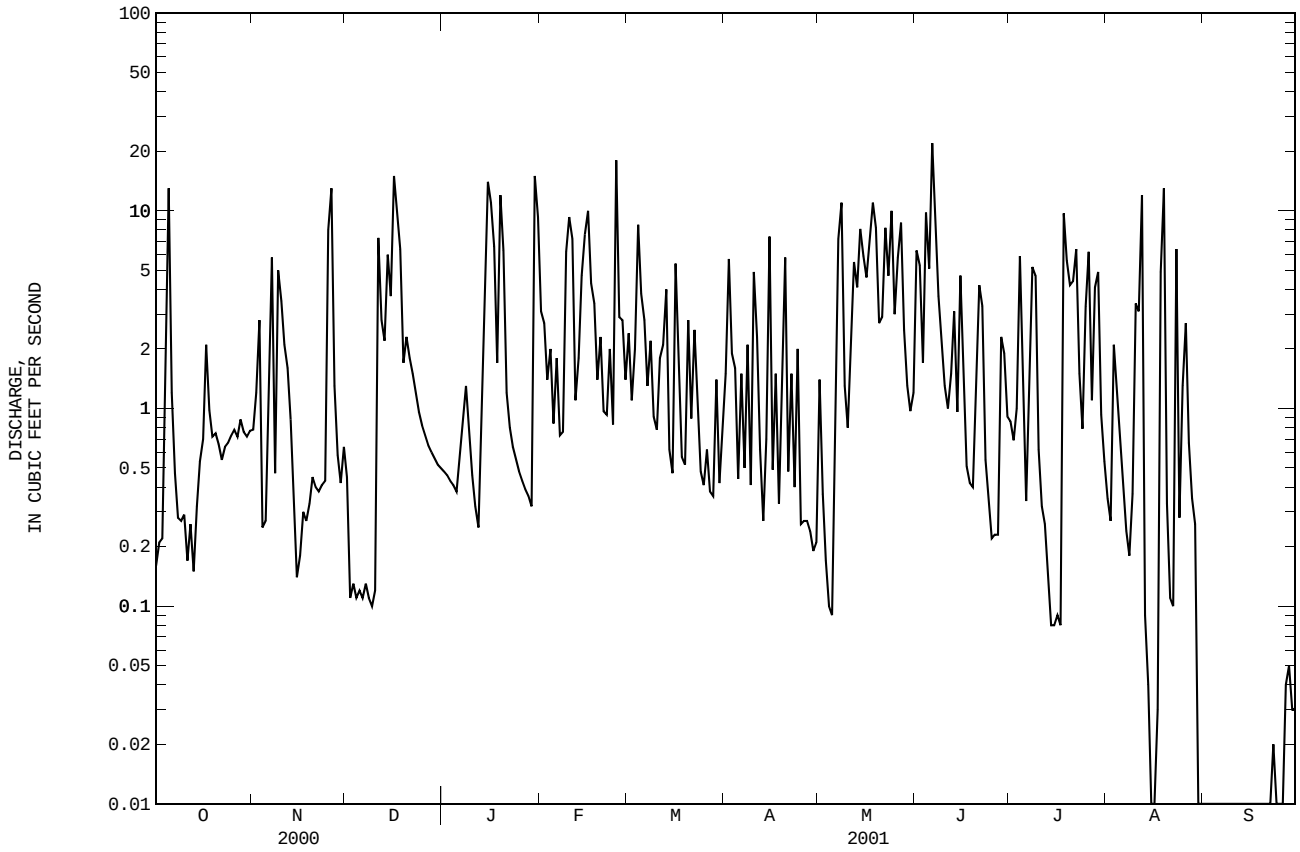
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	2.18	1.33	3.26	8.80	11.2	3.99	5.19	5.36	4.13	2.38	1.42	1.12
MAX	3.29	1.79	4.31	14.7	18.6	6.19	8.81	6.45	5.03	2.46	1.76	2.22
(WY)	2000	2001	2000	2000	2000	2000	2000	2000	2000	2001	2001	2000
MIN	1.06	.86	2.21	2.94	3.66	1.79	1.57	4.27	3.22	2.29	1.08	.006
(WY)	2001	2000	2001	2001	2001	2001	2001	2001	2001	2000	2000	2001

03260100 ELIJAHS CREEK AT ELIJAHS CREEK ROAD NEAR HEBRON, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL MEAN	5.81		2.22		4.17	
HIGHEST ANNUAL MEAN					6.10	2000
LOWEST ANNUAL MEAN					2.22	2001
HIGHEST DAILY MEAN	208	Feb 18	22	Jun 6	208	Feb 18 2000
LOWEST DAILY MEAN	.08	Aug 5	.00	Aug 15	.00	Oct 2 1999
ANNUAL SEVEN-DAY MINIMUM	.11	Dec 4	.00	Aug 30	.00	Oct 15 1999
MAXIMUM PEAK FLOW			160	Aug 12	861	Jan 3 0000
MAXIMUM PEAK STAGE			2.82	Aug 12	5.57	Jan 3 2000
10 PERCENT EXCEEDS	12		6.4		8.2	
50 PERCENT EXCEEDS	1.3		.81		.94	
90 PERCENT EXCEEDS	.19		.07		.08	

e Estimated



03260100 ELIJAHS CREEK AT ELIJAHS CREEK ROAD NEAR HEBRON, KY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 2001 to September 2001.

COOPERATION.--Northern Kentucky Sanitation District No. 1.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 2001 to September 2001.
pH: March 2001 to September 2001.
WATER TEMPERATURES: March 2001 to September 2001.
DISSOLVED OXYGEN: March 2001 to September 2001.
TURBIDITY: March 2001 to September 2001.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2910 microsiemens, March 13, 2001; minimum, 21 microsiemens, July 18, 2001.
pH.--Maximum, 8.6 units, July 3, 2001; minimum, 7.0 units, July 20, 2001.
WATER TEMPERATURES: Maximum, 28.9°C, Aug. 8, 2001; minimum, 0.0°C, March 10, 2001.
DISSOLVED OXYGEN: Maximum, 19.9 mg/L, May 6, 2001; minimum, 0.5 mg/L, May 19, 2001.
TURBIDITY: Maximum, >1000 NTU, several days in April and May 2001; minimum, 0.3 NTU, Sept. 18, 2001.

REMARKS.--There were several periods of missing data because of equipment failure. Records are rated poor.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03260100 ELIJAHS CREEK AT ELIJAHS CREEK ROAD NEAR HEBRON, KY--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	809	607	749	1180	735	872
2	---	---	---	---	---	---	1080	736	788	1160	1070	1120
3	---	---	---	---	---	---	823	682	807	1100	1010	1060
4	---	---	---	---	---	---	1000	761	893	1040	927	987
5	---	---	---	---	---	---	967	786	837	972	860	917
6	---	---	---	---	---	---	1110	781	872	1090	679	857
7	---	---	---	874	778	825	1110	852	965	1150	421	726
8	---	---	---	1340	779	1010	1170	784	865	614	338	477
9	---	---	---	815	786	797	1180	997	1140	609	472	536
10	---	---	---	821	777	794	1120	709	861	667	609	637
11	---	---	---	1490	779	1130	816	676	758	725	288	656
12	---	---	---	1650	795	901	867	789	815	596	271	524
13	---	---	---	2910	934	1310	913	864	888	513	475	504
14	---	---	---	1190	877	1010	977	824	856	532	463	512
15	---	---	---	879	816	843	1070	451	792	651	391	581
16	---	---	---	1380	761	1060	788	511	686	1160	630	765
17	---	---	---	1230	838	993	795	738	776	953	142	630
18	---	---	---	1160	831	917	824	761	806	530	157	378
19	---	---	---	833	800	814	932	767	887	568	346	451
20	---	---	---	1370	795	1140	904	447	676	705	498	613
21	---	---	---	---	---	---	840	603	769	861	611	710
22	---	---	---	1230	799	992	857	761	820	636	303	508
23	---	---	---	1170	1020	1100	882	845	867	728	360	603
24	---	---	---	1160	831	933	1090	803	928	680	348	523
25	---	---	---	831	784	806	1060	901	995	875	655	803
26	---	---	---	1010	769	816	901	836	865	920	463	697
27	---	---	---	1090	871	978	846	818	834	692	267	526
28	---	---	---	871	775	813	844	814	830	798	656	762
29	---	---	---	1360	776	1030	836	797	820	928	717	858
30	---	---	---	1240	765	946	833	786	814	954	904	942
31	---	---	---	960	764	847	---	---	---	1060	951	992
MONTH	---	---	---	---	---	---	1180	447	842	1180	142	701

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1060	285	609	---	---	---	855	779	817	681	395	570
2	775	333	587	486	346	429	907	854	874	765	681	726
3	800	537	681	851	486	564	968	361	485	821	765	797
4	866	247	599	818	238	503	538	470	498	860	821	841
5	639	266	565	667	489	581	610	538	563	900	860	883
6	450	55	322	791	667	728	696	610	646	941	894	908
7	683	379	565	1030	791	864	809	696	753	954	442	819
8	822	683	747	---	---	---	958	809	901	479	148	237
9	899	802	862	705	312	537	978	770	935	242	122	223
10	932	899	916	841	705	802	858	272	694	538	159	397
11	964	932	949	888	839	860	427	190	377	656	538	608
12	999	698	973	937	880	901	546	132	403	732	656	700
13	996	528	570	961	917	938	670	543	609	777	731	751
14	720	629	682	976	917	950	738	670	696	804	771	785
15	805	189	643	991	920	957	769	733	747	851	804	829
16	617	359	504	981	915	951	803	764	779	911	851	873
17	767	617	704	968	904	939	886	803	855	935	911	925
18	863	757	804	953	21	138	908	129	626	922	418	680
19	980	863	916	161	95	129	579	90	396	449	150	325
20	1030	974	990	186	55	153	717	579	657	528	323	443
21	1050	183	732	172	81	132	790	717	756	624	528	580
22	577	307	458	158	61	103	838	790	810	692	624	656
23	723	577	655	170	132	155	844	152	433	737	692	710
24	826	723	773	184	170	179	657	496	584	741	128	386
25	906	821	846	185	96	130	782	521	681	647	484	578
26	990	906	933	451	77	219	568	315	508	718	647	679
27	1060	990	1010	627	451	553	624	545	575	779	718	750
28	1090	293	939	689	282	509	669	533	642	809	779	793
29	702	372	551	658	360	508	763	491	580	825	802	814
30	724	592	629	690	542	619	811	763	779	829	809	821
31	---	---	---	779	690	746	823	123	432	---	---	---
MONTH	1090	55	724	---	---	---	978	90	648	954	122	670
YEAR	2910	21	719									

03260100 ELIJAHS CREEK AT ELIJAHS CREEK ROAD NEAR HEBRON, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	7.9	7.6	7.8	8.3	7.5	7.8
2	---	---	---	---	---	---	8.0	7.6	7.8	8.0	7.5	7.7
3	---	---	---	---	---	---	7.7	7.5	7.6	8.1	7.5	7.7
4	---	---	---	---	---	---	7.8	7.6	7.7	8.2	7.4	7.7
5	---	---	---	---	---	---	7.8	7.6	7.7	8.3	7.5	7.9
6	---	---	---	---	---	---	7.9	7.6	7.7	8.4	7.5	7.9
7	---	---	---	8.2	7.9	8.0	8.0	7.7	7.8	7.9	7.2	7.5
8	---	---	---	8.3	7.7	8.0	7.9	7.6	7.7	7.5	7.2	7.4
9	---	---	---	8.4	7.9	8.1	8.0	7.7	7.8	7.9	7.3	7.6
10	---	---	---	8.3	7.9	8.1	7.8	7.3	7.5	7.9	7.4	7.6
11	---	---	---	8.2	7.6	7.9	7.6	7.3	7.4	7.7	7.3	7.5
12	---	---	---	8.2	7.6	7.9	7.7	7.3	7.5	7.8	7.4	7.5
13	---	---	---	8.1	7.5	7.8	7.8	7.5	7.6	7.8	7.4	7.6
14	---	---	---	8.0	7.5	7.8	8.0	7.6	7.8	7.6	7.3	7.4
15	---	---	---	8.2	7.6	7.9	7.8	7.5	7.6	7.4	7.2	7.3
16	---	---	---	8.0	7.5	7.8	7.6	7.4	7.5	7.5	7.1	7.3
17	---	---	---	8.1	7.6	7.8	7.8	7.6	7.6	7.8	7.3	7.6
18	---	---	---	8.1	7.6	7.9	7.8	7.6	7.7	8.1	7.5	7.6
19	---	---	---	8.2	7.9	8.1	7.7	7.6	7.7	7.7	7.4	7.5
20	---	---	---	8.1	7.6	7.9	7.7	7.6	7.6	7.6	7.4	7.5
21	---	---	---	7.9	7.6	7.8	7.6	7.5	7.5	8.0	7.5	7.7
22	---	---	---	8.0	7.6	7.8	7.9	7.5	7.7	7.7	7.5	7.6
23	---	---	---	7.8	7.7	7.8	7.8	7.5	7.6	8.0	7.6	7.7
24	---	---	---	7.8	7.7	7.8	8.1	7.5	7.7	8.0	7.6	7.8
25	---	---	---	8.1	7.8	8.0	8.0	7.6	7.8	8.0	7.9	8.0
26	---	---	---	8.2	8.0	8.1	8.2	7.7	7.9	8.0	7.6	7.8
27	---	---	---	8.1	8.0	8.0	8.2	7.7	7.9	7.8	7.6	7.7
28	---	---	---	8.2	8.0	8.1	8.2	7.7	7.9	7.9	7.7	7.8
29	---	---	---	8.2	7.7	8.0	8.3	7.8	8.0	8.0	7.8	7.9
30	---	---	---	8.0	7.8	7.9	8.2	7.6	7.9	8.1	7.9	8.0
31	---	---	---	8.0	7.6	7.9	---	---	---	8.2	8.0	8.1
MONTH	---	---	---	---	---	---	8.3	7.3	7.7	8.4	7.1	7.7

03260100 ELIJAHS CREEK AT ELIJAHS CREEK ROAD NEAR HEBRON, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03260100 ELIJAHS CREEK AT ELIJAHS CREEK ROAD NEAR HEBRON, KY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	12.2	6.2	8.7	22.4	14.9	18.3
2	---	---	---	---	---	---	11.0	4.4	8.0	23.2	15.2	19.2
3	---	---	---	---	---	---	17.8	9.3	12.0	23.7	15.8	19.8
4	---	---	---	---	---	---	16.4	6.9	11.0	23.6	17.7	20.2
5	---	---	---	---	---	---	19.7	7.1	13.0	22.7	15.5	19.2
6	---	---	---	---	---	---	19.3	14.4	16.1	23.4	16.4	20.0
7	---	---	---	7.5	1.5	3.7	24.8	13.6	18.2	23.4	18.9	20.8
8	---	---	---	7.2	1.6	4.0	23.5	17.2	19.8	21.2	17.0	19.1
9	---	---	---	5.2	1.0	3.1	25.9	16.6	20.4	22.1	14.2	17.9
10	---	---	---	8.4	.0	3.6	21.3	17.8	19.1	22.8	15.0	18.8
11	---	---	---	11.8	3.5	6.9	22.8	16.9	19.6	23.6	16.7	19.8
12	---	---	---	7.7	4.4	6.4	24.6	17.5	20.0	20.4	17.0	18.8
13	---	---	---	11.0	6.7	8.4	23.1	13.9	17.6	19.1	14.7	17.1
14	---	---	---	13.0	5.1	8.4	22.3	11.5	16.6	18.9	14.2	16.9
15	---	---	---	10.7	6.7	8.0	18.1	13.0	15.7	20.9	16.3	18.6
16	---	---	---	9.9	7.5	8.6	17.5	10.3	12.8	20.3	18.3	19.2
17	---	---	---	7.7	4.9	6.1	10.8	6.8	8.7	21.9	17.9	19.9
18	---	---	---	11.0	2.2	6.1	15.3	4.9	9.5	22.0	18.7	20.1
19	---	---	---	11.3	2.6	6.5	17.6	6.5	12.0	19.6	18.1	18.8
20	---	---	---	9.5	5.8	7.4	13.9	11.3	12.5	21.1	16.3	18.9
21	---	---	---	10.9	6.0	8.0	21.1	13.3	16.5	20.7	19.0	19.7
22	---	---	---	13.2	4.3	7.8	23.7	16.5	19.1	19.3	16.2	18.0
23	---	---	---	13.7	5.0	8.9	24.3	16.1	19.4	16.2	14.3	14.9
24	---	---	---	12.8	5.3	8.9	18.6	12.8	15.9	16.9	13.4	15.1
25	---	---	---	9.8	2.7	5.3	18.8	8.7	13.2	16.5	13.5	15.1
26	---	---	---	6.5	.7	3.3	19.1	8.2	13.4	17.6	13.6	15.4
27	---	---	---	9.2	1.3	4.4	21.7	10.8	15.9	15.8	13.8	14.9
28	---	---	---	11.7	1.1	6.0	19.6	11.7	15.3	18.0	12.7	15.5
29	---	---	---	10.0	5.8	7.5	19.1	9.2	14.0	20.4	14.1	17.1
30	---	---	---	14.1	4.2	8.9	21.3	10.2	15.7	20.3	15.6	17.7
31	---	---	---	14.7	7.6	10.4	---	---	---	16.1	14.0	15.1
MONTH	---	---	---	---	---	---	25.9	4.4	15.0	23.7	12.7	18.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.2	14.8	16.4	27.1	21.3	23.7	28.3	23.5	25.8	22.7	20.3	21.5
2	17.2	13.7	15.3	23.4	18.4	20.8	28.4	23.9	26.1	22.2	18.5	20.5
3	17.7	14.0	15.9	23.3	17.0	20.0	26.2	24.4	25.2	22.8	18.7	20.8
4	16.9	14.8	15.8	23.1	19.7	21.2	27.4	22.7	24.8	24.6	20.9	22.4
5	19.9	15.6	17.1	25.1	20.4	22.3	27.3	21.2	24.2	23.4	19.9	21.6
6	21.8	17.3	19.3	23.9	16.7	20.3	27.6	22.2	24.9	23.0	18.0	20.6
7	19.4	17.4	18.4	21.0	18.3	19.5	28.5	23.7	26.0	25.0	21.0	22.8
8	20.9	16.8	18.8	24.5	20.9	22.7	28.9	24.2	26.4	25.0	22.1	23.5
9	20.9	15.9	18.6	25.3	21.3	23.2	28.4	24.6	26.2	24.9	22.0	23.4
10	22.0	16.1	19.2	27.9	22.2	24.8	27.3	24.7	25.7	22.8	19.6	21.1
11	23.8	17.7	20.7	26.0	20.7	23.5	27.1	23.4	25.4	21.1	17.3	19.3
12	26.2	20.5	23.1	23.4	18.3	20.7	26.1	23.4	24.6	21.2	16.8	19.0
13	26.0	20.9	23.4	24.1	17.1	20.4	25.6	21.0	23.3	22.0	17.4	19.6
14	27.3	21.4	24.2	24.0	16.9	20.3	25.1	21.0	22.8	19.0	15.9	17.3
15	28.0	22.2	24.6	23.8	16.9	20.6	24.3	19.0	21.8	18.0	14.0	15.9
16	25.8	21.4	23.4	25.0	18.1	21.5	24.0	21.2	22.5	18.0	13.4	15.6
17	26.1	19.8	22.6	26.5	20.8	23.4	23.8	19.8	21.8	18.8	14.1	16.4
18	26.1	18.5	22.2	24.4	21.7	22.9	22.9	19.8	21.2	19.5	17.0	18.1
19	27.0	19.3	23.2	24.8	22.1	23.4	22.1	20.0	20.9	20.2	18.2	19.1
20	23.6	21.2	22.3	26.7	22.6	24.3	21.9	19.4	20.5	19.8	16.9	18.4
21	22.5	19.7	21.0	25.5	22.0	23.9	22.6	17.7	20.1	19.6	16.7	18.0
22	21.3	18.4	19.7	25.3	22.9	24.2	22.7	19.4	20.8	19.9	16.3	17.9
23	20.5	16.7	18.5	27.0	23.1	25.0	23.1	21.3	22.0	20.3	15.4	17.8
24	23.3	16.1	19.5	27.3	24.1	25.8	24.7	20.9	22.7	19.1	14.5	16.9
25	24.3	17.0	20.4	27.7	24.4	26.0	25.0	21.5	22.9	14.5	12.4	13.2
26	24.7	18.0	21.2	26.0	22.9	24.2	24.5	22.0	22.9	13.7	11.0	12.4
27	25.7	19.3	22.3	25.0	20.8	22.9	24.4	21.2	22.9	14.8	11.1	12.8
28	26.3	19.5	22.6	23.8	22.1	23.0	25.1	20.9	22.7	14.0	10.5	12.2
29	25.9	20.7	23.3	25.1	22.6	23.7	24.2	21.7	22.8	14.7	10.3	12.4
30	26.5	21.5	23.9	26.7	22.4	24.5	25.4	21.0	23.1	14.7	10.1	12.5
31	---	---	---	27.7	22.9	25.2	23.9	22.0	22.8	---	---	---
MONTH	28.0	13.7	20.6	27.9	16.7	22.8	28.9	17.7	23.4	25.0	10.1	18.1
YEAR	28.9	.0	18.1									

03260100 ELIJAHS CREEK AT ELIJAHS CREEK ROAD NEAR HEBRON, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	10.7	7.3	9.4	18.0	6.8	10.7
2	---	---	---	---	---	---	12.6	7.2	9.6	14.2	5.3	8.8
3	---	---	---	---	---	---	9.5	5.5	7.2	15.9	4.9	9.1
4	---	---	---	---	---	---	11.9	4.3	7.5	17.6	4.6	9.1
5	---	---	---	---	---	---	10.1	5.1	7.8	18.2	5.6	10.4
6	---	---	---	---	---	---	10.3	3.8	7.6	19.9	5.2	10.6
7	---	---	---	14.5	10.5	12.2	7.4	4.2	5.6	9.7	3.7	6.5
8	---	---	---	13.8	9.7	11.6	11.4	5.0	8.5	6.9	3.9	5.0
9	---	---	---	16.1	10.6	13.1	5.7	4.1	4.8	9.6	4.1	6.5
10	---	---	---	16.1	12.0	14.0	6.8	1.9	4.5	10.8	4.7	6.9
11	---	---	---	14.9	9.6	11.9	4.7	1.3	2.3	11.7	4.4	7.2
12	---	---	---	14.9	8.5	11.9	7.9	1.4	5.0	8.7	6.9	7.5
13	---	---	---	10.2	6.7	8.8	8.9	4.1	6.2	9.4	7.0	8.1
14	---	---	---	10.0	6.2	8.1	9.4	4.5	6.8	9.3	6.7	7.8
15	---	---	---	13.5	8.0	10.1	6.5	2.2	3.7	8.1	3.6	6.4
16	---	---	---	9.1	6.6	8.1	10.8	3.5	7.6	3.7	1.3	2.7
17	---	---	---	11.2	5.7	8.1	12.6	7.9	9.4	6.4	.6	2.7
18	---	---	---	12.6	6.0	10.3	13.2	8.2	10.8	7.6	3.9	5.1
19	---	---	---	13.8	9.8	11.6	10.3	5.8	8.4	5.4	.5	1.7
20	---	---	---	10.1	7.9	9.3	8.7	3.8	6.3	1.6	.7	1.2
21	---	---	---	---	---	---	9.2	3.8	6.2	5.5	.7	1.1
22	---	---	---	12.2	5.9	9.0	9.4	4.0	6.8	6.4	1.0	4.2
23	---	---	---	8.4	4.5	6.4	10.2	3.9	6.4	8.6	5.1	6.7
24	---	---	---	9.4	4.6	7.5	11.1	5.8	7.8	9.0	6.3	7.8
25	---	---	---	11.5	9.0	10.6	12.3	6.6	9.2	8.6	6.9	8.1
26	---	---	---	12.5	6.6	10.7	15.0	8.4	10.9	8.4	4.5	6.2
27	---	---	---	10.5	6.7	9.1	14.9	7.5	10.6	8.5	5.7	7.6
28	---	---	---	12.1	8.8	10.6	15.8	7.5	10.6	8.7	7.5	8.1
29	---	---	---	10.8	6.6	8.6	17.4	8.3	11.4	9.5	7.0	8.2
30	---	---	---	10.0	6.9	8.7	17.0	7.1	11.0	10.4	7.0	8.5
31	---	---	---	11.0	7.7	9.4	---	---	---	10.5	7.5	8.9
MONTH	---	---	---	---	---	---	17.4	1.3	7.7	19.9	.5	6.8

03260100 ELIJAHS CREEK AT ELIJAHS CREEK ROAD NEAR HEBRON, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.3	6.4	7.4	9.6	4.1	6.5	11.6	6.1	8.3	6.9	5.9	6.4
2	8.9	7.0	7.6	8.4	4.1	6.3	11.1	5.3	7.8	7.5	5.8	6.6
3	10.5	7.2	8.6	11.6	5.0	8.0	6.5	3.0	4.7	8.8	6.1	7.2
4	9.1	6.0	7.9	7.9	4.6	6.3	6.7	3.0	4.8	9.1	6.0	7.1
5	8.4	4.5	6.2	8.5	6.2	7.2	7.7	4.1	5.3	8.8	5.9	6.9
6	9.4	5.8	8.2	10.2	6.5	7.7	10.9	4.3	7.3	9.3	5.8	7.2
7	8.5	7.0	7.9	8.5	4.2	6.7	10.5	5.1	7.0	9.5	4.6	6.6
8	8.6	7.2	7.8	6.5	3.8	5.2	10.2	5.2	7.0	7.0	4.2	5.6
9	9.1	6.1	8.0	6.4	5.0	5.7	9.7	4.8	6.6	7.5	4.9	5.8
10	9.8	7.1	8.3	7.6	4.9	5.9	9.7	4.5	6.5	8.1	6.8	7.3
11	10.6	6.7	8.4	9.8	4.9	6.9	8.6	4.5	6.4	9.0	6.7	7.7
12	11.1	6.4	8.3	11.2	6.0	7.9	7.2	5.1	6.5	9.9	6.5	7.9
13	7.5	4.7	5.9	11.7	6.4	8.4	8.4	5.5	6.8	10.0	6.5	7.7
14	8.5	5.0	6.6	12.1	5.8	8.3	10.8	5.4	7.5	10.2	6.2	7.9
15	9.1	5.4	6.8	14.5	5.8	8.8	11.6	6.2	8.3	9.9	6.9	8.0
16	8.8	6.0	7.0	13.6	6.0	8.1	10.2	6.1	7.8	9.9	6.8	8.0
17	9.7	6.5	7.6	12.6	5.7	7.6	10.7	6.6	8.3	9.2	6.3	7.5
18	11.0	6.5	8.0	---	---	---	9.2	5.9	7.2	7.3	3.9	5.7
19	11.4	6.6	8.5	---	---	---	8.7	4.1	6.0	7.1	3.6	5.6
20	12.1	6.6	8.9	---	---	---	7.2	5.8	6.5	7.6	5.6	6.4
21	9.5	7.0	8.1	---	---	---	7.0	5.2	5.9	9.6	5.6	7.1
22	9.5	7.4	8.2	---	---	---	6.9	5.2	5.9	10.5	6.6	8.1
23	11.3	7.5	8.9	---	---	---	9.3	5.6	7.1	10.2	6.6	8.0
24	13.6	7.8	9.8	---	---	---	8.2	6.8	7.5	8.2	6.3	7.6
25	14.0	7.4	9.8	---	---	---	9.6	6.4	7.4	9.2	7.1	8.0
26	13.4	6.6	9.4	---	---	---	7.7	6.4	6.9	10.4	7.0	8.5
27	13.5	6.3	9.0	9.7	7.5	8.5	9.1	7.0	7.6	9.6	7.0	8.0
28	13.8	6.2	8.7	8.4	7.0	7.6	8.8	7.5	8.2	9.9	6.8	8.0
29	7.2	3.9	5.8	7.8	6.3	6.8	9.4	6.1	8.2	9.8	6.8	8.0
30	7.5	3.3	5.5	8.5	6.4	7.2	11.1	5.9	7.9	9.1	6.7	7.6
31	---	---	---	10.0	6.6	7.9	7.6	5.8	6.6	---	---	---
MONTH	14.0	3.3	7.9	---	---	---	11.6	3.0	7.0	10.5	3.6	7.3
YEAR	19.9	.5	7.6									

TURBIDITY (NTU), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03260100 ELIJAHS CREEK AT ELIJAHS CREEK ROAD NEAR HEBRON, KY--Continued

TURBIDITY (NTU), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	260	22	44	140	4.0	9.2
2	---	---	---	---	---	---	230	18	100	15	8.0	10
3	---	---	---	---	---	---	200	49	91	53	6.0	7.6
4	---	---	---	---	---	---	240	18	55	23	5.0	7.1
5	---	---	---	---	---	---	21	14	16	12	7.0	8.7
6	---	---	---	---	---	---	480	13	43	290	7.0	15
7	---	---	---	130	14	17	42	25	31	470	12	37
8	---	---	---	130	15	23	210	23	34	190	28	50
9	---	---	---	17	14	15	130	12	51	51	36	41
10	---	---	---	110	12	17	>1000	9.0	---	49	36	43
11	---	---	---	120	15	23	640	32	130	>1000	41	---
12	---	---	---	130	16	27	860	22	99	>1000	48	---
13	---	---	---	200	28	81	200	15	35	66	51	57
14	---	---	---	190	7.0	46	190	19	35	150	51	66
15	---	---	---	55	15	26	970	66	240	130	24	43
16	---	---	---	130	16	43	170	44	66	38	6.0	17
17	---	---	---	230	21	64	700	50	130	>1000	5.1	---
18	---	---	---	120	16	25	150	77	88	>1000	16	---
19	---	---	---	110	15	17	150	56	74	290	62	120
20	---	---	---	140	15	37	480	63	140	100	19	46
21	---	---	---	57	21	26	180	90	130	90	16	27
22	---	---	---	130	19	43	760	68	110	300	16	62
23	---	---	---	150	35	54	140	43	69	340	12	58
24	---	---	---	150	38	53	74	4.0	25	200	24	56
25	---	---	---	150	35	51	41	4.0	8.0	100	9.9	20
26	---	---	---	140	38	58	7.0	3.0	3.8	820	10	42
27	---	---	---	150	26	64	7.0	3.0	3.7	470	17	57
28	---	---	---	73	8.0	29	5.0	3.0	4.2	17	5.2	9.9
29	---	---	---	760	12	36	6.0	4.0	5.1	7.2	3.3	4.7
30	---	---	---	160	14	43	6.0	4.0	5.1	4.4	3.4	4.2
31	---	---	---	210	12	28	---	---	---	16	3.4	4.1
MONTH	---	---	---	---	---	---	>1000	3.0	---	>1000	3.3	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	98	3.5	19	50	19	28	---	---	---	50	14	26
2	89	5.6	15	46	30	36	---	---	---	14	8.3	12
3	17	2.8	5.4	42	27	32	---	---	---	10	8.7	9.3
4	330	2.8	39	610	28	96	34	22	31	20	6.2	8.8
5	200	6.0	15	140	26	42	36	19	32	---	---	---
6	960	26	200	50	27	36	40	18	24	---	---	---
7	60	2.0	13	100	27	32	25	4.4	12	---	---	---
8	500	2.0	24	600	27	78	13	4.4	7.0	89	27	36
9	19	3.5	7.0	120	30	58	14	5.0	7.0	40	28	30
10	5.7	1.9	3.5	43	23	27	650	7.0	65	60	5.9	18
11	4.0	1.4	2.5	25	1.6	8.1	840	15	79	---	---	---
12	350	1.0	10	3.5	2.2	3.0	660	37	110	---	---	---
13	270	1.4	28	5.2	1.0	3.2	39	13	24	---	---	---
14	6.5	2.8	4.5	13	1.0	2.2	14	4.0	7.6	---	---	---
15	610	3.4	68	5.0	2.0	2.6	6.1	3.1	5.2	---	---	---
16	95	13	44	7.0	3.0	3.5	---	---	---	---	---	---
17	76	11	22	4.0	3.0	3.8	---	---	---	5.7	.4	1.5
18	18	8.0	12	---	---	---	---	---	---	57	.3	17
19	23	8.5	11	---	---	---	---	---	---	480	6.0	81
20	15	2.9	8.0	---	---	---	---	---	---	59	4.4	26
21	840	4.8	91	---	---	---	---	---	---	4.4	3.1	3.5
22	160	28	48	---	---	---	61	55	57	15	4.0	6.5
23	29	25	27	---	---	---	94	31	66	25	6.4	13
24	29	12	23	---	---	---	69	49	55	---	---	---
25	15	13	14	---	---	---	57	45	51	36	5.7	23
26	16	13	14	---	---	---	49	32	40	10	4.4	5.8
27	17	13	15	20	15	17	32	23	27	12	4.9	5.7
28	610	6.5	52	250	14	45	24	13	19	6.8	4.8	6.0
29	100	18	31	140	28	40	14	3.0	8.3	8.5	6.5	7.5
30	38	23	26	32	19	25	34	10	21	11	8.2	9.5
31	---	---	---	20	6.0	13	990	31	200	---	---	---
MONTH	960	1.0	30	---	---	---	---	---	---	---	---	---
YEAR	1000	.3	37									

03262001 WOOLPER CREEK AT WOOLPER ROAD NEAR BURLINGTON, KY

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2001 to September 2001.

COOPERATION.--Northern Kentucky Sanitation District No. 1.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 2000 to September 2001.
pH: December 2000 to September 2001.
WATER TEMPERATURES: December 2000 to September 2001.
DISSOLVED OXYGEN: December 2000 to September 2001.
TURBIDITY: December 2000 to September 2001.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1540 microsiemens, Jan. 23, 2001; minimum, 106 microsiemens, July 18, 2001.
pH.--Maximum, 8.7 units, Feb. 27, 2001; minimum, 7.6 units, Dec. 16, 2000, April 10, and May 4, 5, 7, 2001.
WATER TEMPERATURES: Maximum, 30.2°C, Aug. 8, 2001; minimum, 0.0°C, several days in Dec. 2000 and Jan. and Feb. 2001.
DISSOLVED OXYGEN: Maximum, 20.0 mg/L, Dec. 4, 6, 2000; minimum, 4.6 mg/L, Sept. 7, 2001.
TURBIDITY: Maximum, >1000 NTU, many days in 2001; minimum, 1.0 NTU, April 10, 24, 2001.

REMARKS.--There were several periods of missing data because of equipment failure. Records are rated poor.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	847	793	816
2	---	---	---	---	---	---	614	608	612	926	847	911
3	---	---	---	---	---	---	618	613	614	952	910	932
4	---	---	---	---	---	---	631	618	624	954	858	906
5	---	---	---	---	---	---	630	623	626	858	824	841
6	---	---	---	---	---	---	642	628	636	829	781	816
7	---	---	---	---	---	---	646	638	641	781	756	766
8	---	---	---	---	---	---	645	638	641	828	779	811
9	---	---	---	---	---	---	661	641	649	841	825	830
10	---	---	---	---	---	---	655	648	651	870	841	852
11	---	---	---	---	---	---	652	348	571	907	861	881
12	---	---	---	---	---	---	455	347	399	872	823	843
13	---	---	---	---	---	---	500	455	485	836	783	816
14	---	---	---	---	---	---	1220	492	872	783	739	762
15	---	---	---	---	---	---	1130	995	1090	778	732	741
16	---	---	---	---	---	---	995	185	450	871	778	851
17	---	---	---	---	---	---	433	243	341	869	846	860
18	---	---	---	---	---	---	551	433	517	846	808	830
19	---	---	---	---	---	---	695	548	590	808	757	776
20	---	---	---	---	---	---	849	695	778	999	806	909
21	---	---	---	---	---	---	854	713	822	1240	999	1080
22	---	---	---	---	---	---	867	544	750	1390	1240	1330
23	---	---	---	---	---	---	891	853	868	1540	1340	1450
24	---	---	---	---	---	---	912	805	866	1520	1210	1390
25	---	---	---	---	---	---	865	804	836	1210	1090	1150
26	---	---	---	---	---	---	868	805	836	1120	1070	1100
27	---	---	---	---	---	---	805	772	787	1120	1020	1070
28	---	---	---	---	---	---	778	770	774	1410	1120	1230
29	---	---	---	---	---	---	778	771	774	1480	668	1350
30	---	---	---	---	---	---	893	774	799	931	596	626
31	---	---	---	---	---	---	908	788	842	626	561	577
MONTH	---	---	---	---	---	---	---	---	---	1540	561	939

03262001 WOOLPER CREEK AT WOOLPER ROAD NEAR BURLINGTON, KY--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	606	573	591	573	550	562	697	594	620	657	647	653
2	627	606	613	578	553	564	700	640	668	658	646	653
3	799	627	692	570	546	558	644	617	632	664	651	657
4	826	772	803	639	543	571	629	613	622	664	654	659
5	772	702	722	619	563	586	632	616	626	667	653	660
6	808	714	745	578	564	570	636	573	627	671	651	665
7	817	737	777	581	558	570	603	486	541	668	651	662
8	761	718	742	577	554	565	611	581	601	764	653	687
9	826	604	704	566	550	558	621	601	613	675	660	668
10	720	593	623	561	550	556	636	617	623	671	657	665
11	614	602	609	560	544	553	641	615	631	675	645	666
12	620	609	614	567	549	554	657	612	639	751	647	702
13	631	616	623	632	563	576	649	625	641	749	727	739
14	649	620	627	650	607	627	650	622	638	729	689	710
15	743	649	705	676	626	659	642	619	633	701	666	688
16	715	522	642	655	618	629	673	636	651	690	680	686
17	551	515	530	695	630	675	675	657	665	693	549	651
18	575	551	569	695	670	686	668	641	658	586	277	486
19	584	574	580	678	646	660	655	625	640	626	375	503
20	593	573	584	653	626	636	651	626	637	630	525	617
21	592	568	580	632	615	622	681	651	666	654	629	643
22	589	575	582	636	622	627	682	658	673	654	549	600
23	609	580	592	636	609	624	673	638	656	585	546	569
24	621	589	608	625	596	612	655	642	649	583	507	543
25	791	440	543	616	598	608	659	649	655	587	529	557
26	554	523	543	611	592	602	658	647	654	612	587	594
27	576	554	566	606	594	601	659	647	654	615	517	553
28	581	557	569	607	595	602	660	648	655	587	532	563
29	---	---	---	613	596	606	659	645	653	606	582	596
30	---	---	---	611	597	605	658	645	652	608	561	591
31	---	---	---	612	594	605	---	---	---	607	588	600
MONTH	826	440	631	695	543	601	700	486	639	764	277	629

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	639	593	612	632	601	623	580	564	573	478	312	411
2	623	579	594	625	602	612	585	572	579	525	478	507
3	608	559	572	629	614	624	590	576	584	549	525	540
4	572	200	470	626	572	603	591	582	587	562	549	557
5	555	197	481	605	516	541	593	578	588	570	561	567
6	436	197	322	562	547	554	599	581	591	578	569	573
7	487	320	424	571	553	564	602	584	594	583	504	571
8	543	487	518	579	208	528	605	580	596	549	275	495
9	562	543	556	367	204	310	607	483	580	---	---	---
10	574	562	569	432	367	406	571	529	542	---	---	---
11	580	567	573	553	432	542	535	208	396	---	---	---
12	581	557	572	588	553	575	429	159	332	542	512	530
13	576	561	570	595	578	589	471	429	453	559	542	552
14	576	552	566	606	584	597	516	471	498	570	559	566
15	564	515	551	613	589	603	539	516	529	575	569	572
16	546	529	534	618	589	608	552	539	545	581	574	577
17	577	546	557	623	595	613	560	548	554	585	574	581
18	584	563	575	624	106	238	566	432	552	588	563	575
19	598	565	583	350	110	258	457	200	340	609	330	466
20	612	592	603	384	203	334	497	434	471	469	366	422
21	619	314	547	412	203	286	521	497	514	519	469	497
22	497	361	436	366	290	301	543	519	531	544	519	534
23	574	497	542	504	304	410	547	427	482	558	544	552
24	606	574	590	523	504	515	490	458	479	558	203	363
25	617	592	608	541	523	534	509	489	500	503	395	457
26	624	601	614	531	312	434	532	252	490	540	502	524
27	628	600	615	489	426	461	461	274	395	562	540	553
28	629	605	618	522	489	508	524	461	500	573	562	568
29	629	608	620	561	522	545	553	524	539	578	573	576
30	630	613	623	559	552	555	570	553	559	583	578	580
31	---	---	---	571	559	565	576	271	475	---	---	---
MONTH	639	197	554	632	106	498	607	159	514	---	---	---
YEAR	1540	106	624									

03262001 WOOLPER CREEK AT WOOLPER ROAD NEAR BURLINGTON, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	8.1	8.1	8.1
2	---	---	---	---	---	---	8.4	8.1	8.2	8.1	8.1	8.1
3	---	---	---	---	---	---	8.3	8.2	8.2	8.1	8.0	8.0
4	---	---	---	---	---	---	8.3	8.1	8.2	8.1	8.0	8.1
5	---	---	---	---	---	---	8.4	8.1	8.2	8.2	8.1	8.1
6	---	---	---	---	---	---	8.3	8.1	8.2	8.2	8.1	8.2
7	---	---	---	---	---	---	8.3	8.2	8.2	8.3	8.1	8.2
8	---	---	---	---	---	---	8.4	8.2	8.2	8.3	8.1	8.2
9	---	---	---	---	---	---	8.4	8.1	8.2	8.4	8.2	8.3
10	---	---	---	---	---	---	8.4	8.2	8.2	8.3	8.0	8.2
11	---	---	---	---	---	---	8.3	8.0	8.2	8.2	8.0	8.1
12	---	---	---	---	---	---	8.1	8.0	8.1	8.3	8.1	8.1
13	---	---	---	---	---	---	8.1	7.8	8.0	8.3	8.1	8.2
14	---	---	---	---	---	---	8.0	7.8	7.9	8.2	8.1	8.1
15	---	---	---	---	---	---	8.0	7.9	7.9	8.3	8.1	8.2
16	---	---	---	---	---	---	8.0	7.6	7.8	8.3	8.1	8.2
17	---	---	---	---	---	---	7.8	7.7	7.8	8.4	8.1	8.2
18	---	---	---	---	---	---	7.9	7.8	7.9	8.4	8.2	8.3
19	---	---	---	---	---	---	8.0	7.9	7.9	8.4	8.2	8.3
20	---	---	---	---	---	---	8.0	7.9	7.9	8.4	8.2	8.3
21	---	---	---	---	---	---	8.0	7.8	8.0	8.2	8.0	8.1
22	---	---	---	---	---	---	8.0	7.9	8.0	8.3	8.0	8.1
23	---	---	---	---	---	---	8.0	7.9	8.0	8.3	8.0	8.2
24	---	---	---	---	---	---	8.1	8.0	8.0	8.3	8.1	8.2
25	---	---	---	---	---	---	8.0	8.0	8.0	8.4	8.1	8.2
26	---	---	---	---	---	---	8.0	7.9	8.0	8.2	8.1	8.2
27	---	---	---	---	---	---	8.1	8.0	8.0	8.3	8.1	8.2
28	---	---	---	---	---	---	8.1	8.0	8.1	8.2	8.0	8.1
29	---	---	---	---	---	---	8.1	8.0	8.1	8.3	8.0	8.1
30	---	---	---	---	---	---	8.1	8.0	8.1	8.0	7.9	8.0
31	---	---	---	---	---	---	8.1	8.0	8.1	8.1	8.0	8.0
MONTH	---	---	---	---	---	---	---	---	---	8.4	7.9	8.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.3	8.0	8.1	8.5	8.0	8.2	8.3	7.9	8.1	8.1	7.7	7.9
2	8.3	8.0	8.1	8.5	8.0	8.2	8.4	7.9	8.1	8.1	7.7	7.8
3	8.3	7.9	8.1	8.6	8.0	8.3	8.4	7.9	8.1	8.1	7.7	7.8
4	8.3	8.0	8.2	8.3	8.0	8.1	8.3	7.8	8.0	8.0	7.6	7.8
5	8.3	8.0	8.1	8.5	8.0	8.2	8.3	7.8	8.0	8.0	7.6	7.8
6	8.3	8.1	8.2	8.4	8.0	8.2	8.2	7.8	7.9	8.0	7.7	7.8
7	8.3	8.0	8.1	8.5	8.0	8.2	8.3	7.7	8.0	8.0	7.6	7.8
8	8.4	7.9	8.1	8.5	8.0	8.2	8.2	7.7	8.0	8.1	7.7	7.9
9	8.4	7.9	8.1	8.5	8.0	8.2	8.2	7.7	7.9	8.2	7.7	7.9
10	8.3	7.9	8.0	8.4	8.0	8.2	8.2	7.6	7.9	8.2	7.7	7.9
11	8.4	7.9	8.1	8.5	8.0	8.2	8.4	7.8	8.0	8.2	7.7	7.9
12	8.4	7.9	8.1	8.4	8.0	8.2	8.4	7.8	8.1	8.2	7.8	8.0
13	8.5	7.9	8.2	8.5	8.0	8.2	8.4	7.7	8.0	8.3	7.8	8.0
14	8.5	8.1	8.3	8.6	8.0	8.2	8.4	7.8	8.1	8.3	7.8	8.0
15	8.4	8.2	8.3	8.5	8.0	8.2	8.2	7.7	8.0	8.2	7.7	7.9
16	8.4	8.1	8.2	8.4	8.0	8.2	8.4	7.9	8.1	8.0	7.7	7.8
17	8.6	8.1	8.3	8.4	8.1	8.2	8.3	7.9	8.1	8.2	7.8	7.9
18	8.6	8.1	8.3	8.5	8.1	8.3	8.4	7.9	8.2	8.1	7.7	7.9
19	8.6	8.2	8.4	8.5	8.1	8.3	8.4	7.9	8.1	8.1	7.9	8.0
20	8.6	8.1	8.3	8.5	8.1	8.3	8.2	7.8	8.0	8.2	8.0	8.1
21	8.6	8.1	8.3	8.5	8.1	8.3	8.4	7.9	8.1	8.2	8.0	8.1
22	8.5	8.1	8.3	8.5	8.0	8.2	8.4	7.8	8.1	8.2	8.0	8.1
23	8.6	8.1	8.3	8.5	8.0	8.2	8.3	7.8	8.0	8.2	8.0	8.1
24	8.6	8.0	8.3	8.5	8.0	8.2	8.2	7.8	8.0	8.2	8.1	8.1
25	8.2	8.0	8.1	8.4	8.0	8.2	8.2	7.8	8.0	8.3	8.1	8.2
26	8.7	8.1	8.3	8.4	8.1	8.2	8.2	7.8	8.0	8.4	8.1	8.2
27	8.5	8.0	8.2	8.4	8.1	8.2	8.2	7.8	8.0	8.2	8.0	8.1
28	8.5	8.0	8.2	8.4	8.1	8.2	8.2	7.7	7.9	8.3	8.0	8.1
29	---	---	---	8.4	8.0	8.2	8.1	7.7	7.9	8.3	8.0	8.1
30	---	---	---	8.4	8.0	8.2	8.1	7.7	7.9	8.3	8.0	8.1
31	---	---	---	8.3	7.9	8.1	---	---	---	8.3	8.0	8.1
MONTH	8.7	7.9	8.2	8.6	7.9	8.2	8.4	7.6	8.0	8.4	7.6	8.0

03262001 WOOLPER CREEK AT WOOLPER ROAD NEAR BURLINGTON, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.2	8.0	8.1	8.1	7.9	8.0	8.2	7.8	8.0	8.0	7.8	7.9
2	8.3	8.0	8.1	8.2	7.9	8.1	8.2	7.8	8.0	8.0	7.8	7.9
3	8.3	8.0	8.1	8.2	7.9	8.0	8.2	7.9	8.0	8.0	7.8	7.9
4	8.1	7.8	8.0	8.2	7.9	8.0	8.2	7.9	8.0	8.1	7.8	8.0
5	8.2	7.7	8.0	8.2	7.9	8.1	8.2	7.9	8.0	8.1	8.0	8.0
6	8.0	7.6	7.8	8.3	7.9	8.1	8.2	7.9	8.0	8.1	8.0	8.0
7	8.1	7.8	8.0	8.2	7.9	8.0	8.1	7.7	7.9	8.1	7.9	8.0
8	8.2	8.0	8.1	8.2	7.8	7.9	8.0	7.7	7.8	8.2	7.9	8.0
9	8.2	8.0	8.1	8.1	7.8	7.9	8.0	7.7	7.8	8.0	7.8	7.9
10	8.1	7.9	8.0	8.0	7.8	7.9	8.0	7.8	7.9	8.1	7.9	8.0
11	8.2	7.9	8.0	8.1	7.8	8.0	8.0	7.7	7.8	8.1	7.9	8.0
12	8.2	7.9	8.0	8.2	7.9	8.0	7.9	7.6	7.8	8.1	7.9	8.0
13	8.3	7.9	8.1	8.2	7.9	8.0	8.0	7.8	7.9	8.1	7.9	8.0
14	8.2	7.9	8.0	8.2	7.9	8.0	8.0	7.8	7.9	8.1	7.9	8.0
15	8.2	7.9	8.0	8.2	7.8	8.0	8.1	7.8	7.9	8.1	7.9	8.0
16	8.2	7.9	8.0	8.1	7.8	7.9	8.1	7.9	8.0	8.0	7.8	7.9
17	8.1	7.8	7.9	8.1	7.8	7.9	8.1	7.9	8.0	8.0	7.8	7.9
18	8.1	7.8	7.9	7.9	7.6	7.8	8.1	7.9	8.0	8.0	7.8	7.9
19	8.1	7.8	7.9	7.8	7.6	7.8	8.0	7.8	7.9	7.9	7.7	7.8
20	8.1	7.8	7.9	7.8	7.7	7.8	8.1	7.9	8.0	7.8	7.6	7.7
21	8.1	7.8	7.9	7.9	7.6	7.7	8.1	7.9	8.0	7.8	7.6	7.7
22	7.9	7.7	7.8	8.0	7.8	7.9	8.0	7.8	7.9	7.9	7.7	7.8
23	8.0	7.8	7.9	8.0	7.8	7.9	8.0	7.8	7.9	7.8	7.7	7.8
24	8.1	7.9	8.0	8.0	7.8	7.9	8.0	7.8	7.9	7.7	7.5	7.6
25	8.1	7.8	8.0	8.1	7.7	7.9	8.0	7.8	7.9	7.8	7.6	7.7
26	8.1	7.8	8.0	7.9	7.7	7.8	8.1	7.7	7.9	7.8	7.6	7.7
27	8.1	7.8	8.0	8.0	7.7	7.8	8.0	7.7	7.9	7.7	7.6	7.7
28	8.1	7.8	7.9	8.0	7.8	7.9	8.1	7.8	7.9	7.7	7.6	7.7
29	8.1	7.8	8.0	7.9	7.8	7.8	8.1	7.8	7.9	7.8	7.6	7.7
30	8.1	7.9	8.0	8.0	7.7	7.8	8.1	7.8	7.9	7.8	7.6	7.7
31	---	---	---	8.0	7.7	7.9	8.0	7.8	7.8	---	---	---
MONTH	8.3	7.6	8.0	8.3	7.6	7.9	8.2	7.6	7.9	8.2	7.5	7.9
YEAR	8.7	7.5	8.0									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	.6	.0	.5
2	---	---	---	---	---	---	4.0	2.5	3.3	.6	.0	.5
3	---	---	---	---	---	---	2.7	.7	1.7	.6	.5	.6
4	---	---	---	---	---	---	.9	.0	.6	.6	.0	.6
5	---	---	---	---	---	---	2.2	.1	1.2	.6	.0	.4
6	---	---	---	---	---	---	.9	.0	.5	.6	.0	.4
7	---	---	---	---	---	---	1.4	.1	.8	.6	.0	.4
8	---	---	---	---	---	---	2.2	.1	1.4	.6	.0	.4
9	---	---	---	---	---	---	1.4	.0	.7	.6	.0	.4
10	---	---	---	---	---	---	2.8	.4	1.6	.6	.0	.4
11	---	---	---	---	---	---	5.3	2.5	3.3	.6	.0	.4
12	---	---	---	---	---	---	5.0	1.3	2.7	.6	.0	.3
13	---	---	---	---	---	---	1.3	.1	.4	.6	.0	.4
14	---	---	---	---	---	---	1.5	.6	1.1	.6	.0	.3
15	---	---	---	---	---	---	2.5	1.3	1.8	.3	.0	.1
16	---	---	---	---	---	---	6.5	2.4	5.0	.5	.1	.3
17	---	---	---	---	---	---	6.1	.0	2.4	.8	.1	.3
18	---	---	---	---	---	---	.6	.0	.4	1.3	.0	.6
19	---	---	---	---	---	---	.6	.1	.4	.6	.0	.3
20	---	---	---	---	---	---	.6	.0	.4	.6	.0	.4
21	---	---	---	---	---	---	.6	.1	.4	.4	.4	.4
22	---	---	---	---	---	---	.6	.5	.5	.6	.3	.4
23	---	---	---	---	---	---	.6	.5	.6	.6	.0	.4
24	---	---	---	---	---	---	.6	.0	.4	.6	.0	.4
25	---	---	---	---	---	---	.6	.0	.5	.7	.0	.4
26	---	---	---	---	---	---	.6	.0	.5	.4	.4	.4
27	---	---	---	---	---	---	.6	.5	.6	.6	.0	.4
28	---	---	---	---	---	---	.6	.5	.6	.5	.4	.4
29	---	---	---	---	---	---	.6	.5	.6	.7	.0	.5
30	---	---	---	---	---	---	.6	.5	.6	1.9	.0	1.0
31	---	---	---	---	---	---	.6	.6	.6	3.4	1.9	2.8
MONTH	---	---	---	---	---	---	---	---	---	3.4	.0	.5

03262001 WOOLPER CREEK AT WOOLPER ROAD NEAR BURLINGTON, KY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.0	2.4	3.0	4.6	1.1	3.1	11.4	7.8	9.5	23.3	16.0	19.6
2	2.4	.0	1.1	6.5	3.9	5.2	11.9	6.0	8.8	24.9	16.8	20.8
3	.6	.0	.4	8.0	5.3	6.6	14.4	9.5	11.5	25.8	17.5	21.6
4	1.6	.0	1.0	7.0	5.2	6.1	15.0	9.4	12.1	26.1	18.8	22.2
5	1.5	.9	1.2	5.2	2.4	4.1	15.9	9.0	12.4	25.7	17.9	21.7
6	2.8	1.0	1.7	3.1	1.1	2.1	16.4	14.2	15.0	25.9	18.3	22.1
7	2.2	.0	1.2	5.8	1.8	3.5	20.6	13.9	16.9	23.5	19.7	21.5
8	5.1	.9	2.9	5.8	1.7	3.8	21.0	17.5	19.1	22.4	18.7	20.3
9	9.2	5.1	7.1	4.3	2.0	3.3	21.9	17.1	19.3	22.5	16.0	19.1
10	8.2	2.8	5.1	5.6	.4	3.1	19.8	18.1	19.0	24.4	16.9	20.5
11	2.8	.4	1.8	8.1	2.8	5.4	22.1	17.3	19.6	25.6	18.0	21.4
12	3.3	.7	2.1	6.7	4.6	5.7	22.6	18.6	20.4	21.3	18.3	19.9
13	5.1	3.3	4.1	8.9	6.0	7.4	21.2	16.3	18.8	21.0	15.1	18.0
14	8.0	5.1	6.4	10.3	5.9	8.0	19.9	14.0	17.2	20.9	14.5	17.8
15	8.0	6.4	7.2	8.9	6.8	7.8	18.1	14.2	16.0	23.5	16.5	19.8
16	6.4	5.0	5.9	8.6	7.7	8.1	15.9	11.6	13.7	21.8	18.8	20.4
17	5.0	1.2	3.1	7.7	4.9	6.3	13.0	8.8	10.4	22.4	18.6	20.0
18	2.4	.0	1.1	8.3	3.2	5.8	13.1	6.6	9.8	21.6	18.4	19.4
19	4.5	.2	2.1	7.9	3.5	5.9	15.2	8.0	11.6	18.5	17.7	18.1
20	6.3	2.9	4.5	7.3	5.2	6.4	13.4	11.7	12.5	20.5	16.2	18.3
21	5.7	3.4	4.6	9.3	6.1	7.6	18.4	13.1	15.4	20.9	18.5	19.6
22	3.7	1.9	2.4	10.4	5.2	7.9	22.5	16.6	19.2	19.9	17.0	18.4
23	4.9	1.6	3.1	11.1	5.9	8.6	23.1	17.6	20.2	17.0	14.2	15.0
24	7.9	3.3	5.0	10.7	7.4	9.1	20.3	15.9	18.0	16.7	13.5	14.7
25	10.3	7.6	9.0	7.8	4.7	6.2	18.9	12.0	15.5	16.3	13.6	14.9
26	7.9	4.8	6.5	5.1	2.7	4.0	19.4	11.4	15.4	16.9	13.6	15.2
27	6.4	4.5	5.5	6.0	2.0	3.9	21.6	12.8	17.1	15.9	13.9	14.9
28	6.2	3.3	4.8	8.0	1.8	5.1	21.1	14.1	17.6	18.5	12.8	15.5
29	---	---	---	9.0	6.0	7.3	21.2	12.4	16.7	19.5	14.3	17.0
30	---	---	---	10.0	5.3	7.9	22.9	12.8	17.8	19.4	16.1	17.8
31	---	---	---	11.9	8.0	9.7	---	---	---	17.4	14.8	15.7
MONTH	10.3	.0	3.7	11.9	.4	6.0	23.1	6.0	15.6	26.1	12.8	18.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.4	15.2	15.9	28.7	22.8	25.1	28.4	24.4	26.3	22.4	20.4	21.4
2	16.8	13.9	15.2	24.8	20.0	22.4	28.8	24.8	26.8	22.2	19.0	20.5
3	17.2	14.0	15.7	24.1	18.9	21.4	27.3	25.6	26.3	21.9	19.4	20.8
4	16.4	14.8	15.5	23.4	20.4	21.6	28.2	24.1	26.0	23.6	20.8	22.1
5	18.5	14.9	16.4	26.0	20.7	22.9	28.8	23.1	25.9	23.4	21.0	22.3
6	19.2	16.5	17.7	26.0	18.8	22.4	29.0	23.6	26.2	23.0	19.6	21.6
7	18.6	16.9	17.6	23.8	19.8	21.3	29.7	24.8	27.1	24.1	21.3	22.6
8	20.7	16.4	18.3	25.7	20.9	23.0	30.2	25.0	27.5	24.2	21.4	22.5
9	20.8	15.7	18.2	25.3	20.8	22.7	28.9	25.3	26.8	23.6	21.5	22.4
10	21.7	16.1	18.9	27.6	22.1	24.7	27.5	25.2	26.1	21.7	19.8	20.8
11	23.2	17.7	20.4	27.4	23.1	25.0	26.5	23.2	25.1	20.9	17.7	19.3
12	25.1	20.2	22.6	25.5	20.4	22.7	25.5	22.6	23.8	20.4	17.4	19.0
13	25.9	21.2	23.5	26.2	18.8	22.3	24.6	21.3	23.0	21.0	17.9	19.5
14	27.4	22.1	24.6	26.9	18.2	22.5	24.5	21.8	23.2	20.1	17.9	18.9
15	27.6	22.8	24.9	27.3	18.3	22.8	24.2	20.8	22.6	18.3	15.8	17.1
16	26.6	21.7	24.0	27.7	19.2	23.3	23.4	21.7	22.6	17.9	14.8	16.5
17	27.2	21.0	24.0	27.6	21.6	24.5	24.6	20.5	22.5	18.7	15.1	16.9
18	27.7	20.2	23.9	25.5	20.9	22.1	24.0	21.0	22.4	18.7	17.3	17.9
19	28.7	20.4	24.6	24.0	21.6	22.6	22.1	19.7	20.7	18.5	17.6	18.1
20	25.4	22.6	23.6	25.2	22.0	23.2	21.7	19.4	20.4	19.2	16.6	17.8
21	23.7	20.2	21.5	25.0	21.7	23.3	22.0	18.5	20.3	18.3	16.4	17.4
22	20.4	18.9	19.5	25.4	22.9	24.1	22.4	19.9	21.0	18.9	16.5	17.7
23	19.6	17.5	18.5	26.8	23.2	24.9	22.6	20.7	21.7	19.1	16.2	17.8
24	22.5	16.8	19.6	27.0	24.4	25.7	24.0	21.0	22.4	18.9	15.0	16.9
25	25.0	18.1	21.4	27.9	24.7	26.2	24.0	21.9	22.9	15.0	13.2	13.8
26	25.8	19.1	22.4	26.8	23.0	24.4	23.6	21.9	22.7	13.7	11.8	12.8
27	27.1	20.2	23.5	25.0	21.5	23.1	24.3	21.8	23.0	14.1	11.7	13.0
28	27.6	20.8	24.0	23.8	22.5	22.9	24.0	21.3	22.7	13.3	11.3	12.5
29	28.3	21.6	24.8	24.9	22.4	23.4	24.1	22.0	23.0	13.6	11.0	12.5
30	28.4	22.3	25.2	26.6	22.4	24.3	25.0	22.0	23.5	13.9	11.1	12.7
31	---	---	---	27.3	23.5	25.4	24.1	21.9	22.8	---	---	---
MONTH	28.7	13.9	20.9	28.7	18.2	23.4	30.2	18.5	23.8	24.2	11.0	18.2
YEAR	30.2	.0	13.3									

03262001 WOOLPER CREEK AT WOOLPER ROAD NEAR BURLINGTON, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	14.1	13.4	13.6
2	---	---	---	---	---	---	17.5	14.6	15.9	14.4	13.5	13.9
3	---	---	---	---	---	---	18.8	15.9	17.4	14.3	13.4	13.7
4	---	---	---	---	---	---	20.0	17.2	18.5	14.2	13.3	13.6
5	---	---	---	---	---	---	19.0	16.8	17.8	14.2	13.1	13.5
6	---	---	---	---	---	---	20.0	17.6	18.6	14.5	13.3	13.8
7	---	---	---	---	---	---	19.2	16.4	17.7	14.5	13.4	13.8
8	---	---	---	---	---	---	18.1	16.0	17.0	14.7	13.4	14.0
9	---	---	---	---	---	---	19.9	17.2	18.2	15.1	13.6	14.3
10	---	---	---	---	---	---	18.3	15.1	16.8	15.3	12.5	13.6
11	---	---	---	---	---	---	15.5	12.5	14.5	14.9	12.3	13.4
12	---	---	---	---	---	---	13.5	11.9	12.8	14.8	12.9	13.7
13	---	---	---	---	---	---	13.9	11.8	12.7	14.8	13.1	13.8
14	---	---	---	---	---	---	12.8	11.9	12.3	14.4	12.9	13.4
15	---	---	---	---	---	---	12.5	10.7	11.8	14.5	13.0	13.5
16	---	---	---	---	---	---	10.7	7.8	9.0	14.9	13.0	13.6
17	---	---	---	---	---	---	13.4	8.0	11.1	15.4	13.0	13.9
18	---	---	---	---	---	---	13.4	12.8	13.2	15.5	13.2	14.1
19	---	---	---	---	---	---	13.5	12.8	13.3	14.9	13.2	13.9
20	---	---	---	---	---	---	13.5	13.2	13.3	15.7	13.5	14.3
21	---	---	---	---	---	---	13.4	13.1	13.3	16.1	13.4	14.5
22	---	---	---	---	---	---	13.7	13.2	13.5	16.3	13.6	14.6
23	---	---	---	---	---	---	13.7	13.2	13.5	16.5	13.4	14.6
24	---	---	---	---	---	---	13.7	13.2	13.5	16.2	13.4	14.5
25	---	---	---	---	---	---	14.0	13.4	13.6	16.4	13.6	14.7
26	---	---	---	---	---	---	13.8	13.1	13.4	15.8	13.4	14.3
27	---	---	---	---	---	---	13.7	13.1	13.3	16.5	13.3	14.6
28	---	---	---	---	---	---	13.8	13.2	13.4	16.9	13.4	14.8
29	---	---	---	---	---	---	13.8	13.1	13.3	16.6	13.4	14.5
30	---	---	---	---	---	---	13.7	13.0	13.3	13.9	12.5	13.2
31	---	---	---	---	---	---	13.8	13.1	13.4	13.0	12.2	12.6
MONTH	---	---	---	---	---	---	20.0	7.8	14.3	16.9	12.2	13.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	14.1	12.3	12.9	16.1	11.7	13.6	12.2	9.2	10.5	9.1	6.0	7.4
2	15.3	12.5	13.9	15.4	11.1	12.8	13.3	9.3	11.1	9.0	5.7	7.1
3	15.6	13.3	14.2	15.4	10.6	12.5	12.8	8.9	10.3	8.9	5.6	7.0
4	15.6	13.0	14.0	13.0	10.5	11.6	12.9	8.9	10.5	8.8	5.7	6.9
5	14.7	12.9	13.5	14.3	11.6	12.7	12.8	8.4	10.3	9.0	5.8	7.2
6	15.8	12.7	13.8	15.5	12.4	13.6	10.6	7.9	8.8	9.1	5.8	7.2
7	16.7	12.8	14.3	15.6	11.8	13.4	10.7	7.2	9.0	8.5	5.8	7.0
8	16.3	11.5	13.7	15.9	11.7	13.4	11.2	7.2	8.8	8.4	6.6	7.5
9	14.8	10.2	11.8	15.6	11.8	13.5	11.5	7.2	8.9	9.9	7.0	8.3
10	13.3	11.0	12.2	15.7	11.6	13.7	11.2	7.0	8.3	9.8	6.5	7.9
11	15.7	12.4	13.8	15.3	10.8	12.9	11.8	6.6	8.8	9.8	6.6	7.7
12	15.5	12.1	13.5	14.2	10.7	12.1	11.7	6.4	8.5	9.0	6.6	7.8
13	15.3	11.6	12.8	13.7	10.3	11.7	12.0	6.3	8.4	10.3	7.4	8.6
14	13.8	10.6	12.0	13.9	9.7	11.7	11.7	6.4	8.5	10.8	7.2	8.5
15	12.6	10.6	11.4	13.8	9.7	11.2	9.3	6.2	7.5	10.3	6.4	8.1
16	12.8	11.3	12.0	12.4	9.8	10.7	12.5	8.0	10.0	9.0	6.0	7.0
17	14.9	12.2	13.5	13.0	10.2	11.5	12.0	8.4	10.1	9.3	6.0	7.1
18	16.0	13.5	14.5	14.4	10.8	12.4	13.0	9.1	10.9	8.3	7.3	7.7
19	15.9	12.4	14.1	14.5	10.8	12.3	12.2	8.1	10.0	8.2	7.8	8.0
20	15.8	11.4	13.3	14.0	10.6	11.9	9.9	7.9	8.5	8.8	7.2	8.1
21	16.2	11.5	13.5	13.7	10.1	11.6	10.6	6.7	8.5	8.6	7.0	7.7
22	16.4	12.3	13.9	13.8	9.9	11.7	10.1	5.5	7.5	8.4	6.9	7.7
23	16.7	12.2	14.2	13.5	9.5	11.3	8.5	5.1	6.5	8.9	7.6	8.3
24	16.4	10.8	13.4	13.1	9.4	10.9	10.1	5.1	7.3	8.9	8.2	8.5
25	11.3	10.3	10.9	13.6	10.0	11.8	10.7	7.3	8.8	9.2	7.8	8.5
26	14.1	11.1	12.3	14.0	10.9	12.5	10.6	7.3	8.8	9.5	7.5	8.4
27	14.7	11.3	12.5	13.9	11.5	12.5	10.0	6.7	8.3	8.9	7.6	8.3
28	15.4	11.4	13.0	13.5	10.2	12.1	9.6	6.6	8.0	9.4	7.2	8.4
29	---	---	---	13.0	10.0	11.2	9.6	6.7	8.1	9.4	6.8	8.0
30	---	---	---	13.0	9.5	11.1	9.2	6.2	7.7	9.6	6.8	7.9
31	---	---	---	13.1	9.3	10.5	---	---	---	10.2	6.9	8.6
MONTH	16.7	10.2	13.2	16.1	9.3	12.1	13.3	5.1	8.9	10.8	5.6	7.8

03262001 WOOLPER CREEK AT WOOLPER ROAD NEAR BURLINGTON, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.2	8.0	8.5	8.5	5.8	6.8	10.5	6.5	8.0	8.6	7.0	7.9
2	10.1	8.0	8.7	8.6	6.3	7.5	9.8	5.9	7.5	8.0	5.9	7.2
3	10.6	7.8	9.0	9.3	6.8	7.6	8.8	5.8	6.7	7.7	5.8	6.6
4	9.5	7.7	8.5	8.9	6.8	7.4	8.3	5.8	6.8	7.2	5.2	6.1
5	9.5	8.1	8.8	8.8	7.1	7.8	8.6	5.7	7.0	7.1	5.0	5.8
6	9.7	8.9	9.3	9.6	6.9	8.0	9.1	5.6	7.1	7.0	4.9	5.7
7	9.7	8.9	9.4	9.9	7.0	7.9	9.1	5.3	6.9	6.9	4.6	5.5
8	9.7	8.3	9.1	9.1	6.8	7.6	11.1	5.1	6.9	7.3	5.2	6.5
9	9.8	8.1	9.0	8.7	6.9	8.0	9.0	5.1	6.4	7.7	5.5	6.4
10	10.1	7.9	9.0	7.7	5.7	6.9	8.2	5.7	6.6	7.9	7.2	7.6
11	10.3	7.6	8.8	8.1	5.7	6.7	7.7	6.0	6.4	8.6	7.1	7.8
12	10.5	7.0	8.5	9.7	6.1	7.7	8.1	6.7	7.3	8.9	6.8	7.8
13	9.7	6.8	8.1	9.7	6.4	7.9	7.7	6.6	7.1	8.5	6.6	7.4
14	9.9	6.3	7.8	9.5	6.2	7.5	8.2	6.8	7.3	8.6	6.5	7.3
15	9.1	6.3	7.2	9.4	5.9	7.4	8.9	6.8	7.6	8.9	6.9	7.7
16	8.5	6.1	7.2	9.8	5.6	7.3	8.9	6.8	7.5	9.7	7.4	8.3
17	8.8	6.1	7.2	9.4	5.0	7.0	8.8	6.4	7.4	9.6	7.0	8.1
18	9.3	6.3	7.6	8.3	4.9	7.5	9.1	6.4	7.3	8.7	6.7	7.3
19	10.0	6.2	7.8	8.2	7.1	7.6	8.7	7.1	7.9	8.1	6.9	7.6
20	9.4	6.2	7.5	7.9	7.1	7.4	8.3	7.1	7.6	8.1	6.9	7.7
21	9.5	6.6	7.7	7.6	6.8	7.3	8.6	7.1	7.6	8.2	6.9	7.5
22	8.4	7.8	8.1	7.6	6.7	7.1	9.2	6.7	7.4	8.5	6.8	7.5
23	9.4	7.9	8.4	7.7	6.5	7.0	7.3	6.4	6.8	8.6	6.6	7.4
24	9.9	7.4	8.5	8.4	6.5	7.2	7.7	6.2	6.7	8.6	6.4	7.8
25	10.0	7.0	8.3	8.4	6.4	7.2	8.4	6.2	7.0	9.2	7.9	8.5
26	10.3	6.7	8.2	7.8	6.3	6.8	8.2	6.2	7.0	9.7	8.2	8.8
27	9.9	6.3	7.8	7.8	6.6	7.1	7.6	6.4	7.0	9.4	8.1	8.6
28	9.3	6.0	7.3	7.6	6.4	6.9	8.3	6.3	7.0	9.8	8.2	8.9
29	8.9	6.0	7.2	7.7	6.6	7.1	8.6	6.1	7.0	10.2	8.4	9.1
30	8.6	5.8	7.0	9.5	7.0	8.2	8.8	5.9	7.0	9.9	8.1	8.9
31	---	---	---	9.2	6.5	7.7	8.9	5.4	7.2	---	---	---
MONTH	10.6	5.8	8.2	9.9	4.9	7.4	11.1	5.1	7.1	10.2	4.6	7.5
YEAR	20.0	4.6	10.0									

TURBIDITY (NTU), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	18	15	16
2	---	---	---	---	---	---	12	7.0	10	17	15	16
3	---	---	---	---	---	---	13	9.0	11	18	15	15
4	---	---	---	---	---	---	12	10	11	21	15	16
5	---	---	---	---	---	---	11	10	10	19	15	15
6	---	---	---	---	---	---	12	11	11	18	15	16
7	---	---	---	---	---	---	14	10	11	22	15	17
8	---	---	---	---	---	---	12	10	10	20	14	15
9	---	---	---	---	---	---	13	10	11	16	14	15
10	---	---	---	---	---	---	12	10	11	22	14	16
11	---	---	---	---	---	---	920	9.0	200	23	4.8	12
12	---	---	---	---	---	---	470	60	170	4.8	4.7	4.7
13	---	---	---	---	---	---	60	26	38	4.7	4.5	4.6
14	---	---	---	---	---	---	60	30	44	4.5	4.4	4.4
15	---	---	---	---	---	---	37	14	27	4.4	4.2	4.3
16	---	---	---	---	---	---	>1000	23	---	4.2	4.1	4.2
17	---	---	---	---	---	---	180	51	98	4.2	4.0	4.1
18	---	---	---	---	---	---	54	33	42	4.6	4.2	4.4
19	---	---	---	---	---	---	34	25	29	8.0	4.6	5.7
20	---	---	---	---	---	---	27	23	24	13	5.4	7.2
21	---	---	---	---	---	---	24	20	22	9.8	5.6	6.0
22	---	---	---	---	---	---	28	20	21	6.5	6.0	6.2
23	---	---	---	---	---	---	22	18	20	6.9	6.5	6.7
24	---	---	---	---	---	---	27	18	23	7.4	6.9	7.2
25	---	---	---	---	---	---	26	19	22	7.9	7.4	7.6
26	---	---	---	---	---	---	85	17	19	8.3	7.9	8.1
27	---	---	---	---	---	---	53	16	17	8.8	8.3	8.5
28	---	---	---	---	---	---	20	16	17	9.2	8.8	9.0
29	---	---	---	---	---	---	17	16	16	>1000	9.2	---
30	---	---	---	---	---	---	23	16	16	>1000	65	---
31	---	---	---	---	---	---	34	16	18	190	43	93
MONTH	---	---	---	---	---	---	>1000	7.0	---	>1000	4.0	---

03262001 WOOLPER CREEK AT WOOLPER ROAD NEAR BURLINGTON, KY--Continued

TURBIDITY (NTU), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	43	23	31	15	11	13	25	7.3	12	68	19	33
2	26	14	19	13	10	11	14	9.0	11	45	23	37
3	16	11	13	18	10	12	9.9	7.3	8.8	45	19	37
4	12	8.6	10	81	11	32	10	7.6	8.9	46	22	37
5	9.3	7.6	8.6	78	18	42	10	7.8	8.9	69	16	36
6	8.5	6.7	7.6	19	8.1	13	140	8.1	20	54	22	43
7	7.9	5.7	6.6	9.0	6.0	7.0	230	23	110	60	26	47
8	7.0	4.2	5.8	8.0	5.0	6.2	31	3.0	18	96	43	69
9	860	6.7	74	8.0	5.0	6.3	16	7.0	11	67	39	58
10	860	43	220	8.0	4.0	6.2	15	1.0	9.8	79	25	58
11	44	13	26	11	7.0	8.6	17	12	14	---	---	---
12	14	7.4	10	12	9.0	11	16	8.4	13	---	---	---
13	12	8.0	8.7	17	11	14	19	8.4	15	36	15	26
14	15	10	12	37	16	18	37	14	22	31	10	16
15	34	14	26	19	17	18	---	---	---	40	8.1	13
16	270	25	90	29	17	20	30	7.9	11	43	5.1	11
17	140	26	52	21	18	19	9.8	6.2	7.7	>1000	7.5	---
18	27	17	21	21	17	18	15	5.8	7.1	>1000	120	---
19	21	14	16	18	17	17	8.9	4.9	6.3	490	98	200
20	17	14	16	13	11	12	120	5.8	34	120	49	73
21	18	15	16	12	9.8	11	390	10	140	68	23	44
22	17	12	13	12	8.9	10	440	1.3	60	210	32	110
23	13	12	12	11	7.9	9.2	16	1.7	7.0	---	---	---
24	16	13	14	10	7.8	8.9	15	1.0	8.0	870	120	210
25	>1000	14	---	10	7.6	8.2	29	13	15	120	69	90
26	86	30	48	8.6	5.6	6.6	31	7.7	21	>1000	60	---
27	30	16	22	6.6	4.6	5.2	32	14	27	400	78	150
28	18	14	16	9.8	4.0	6.6	76	14	32	110	69	89
29	---	---	---	8.7	7.0	7.9	48	24	38	100	50	80
30	---	---	---	7.9	7.2	7.6	66	14	41	130	49	78
31	---	---	---	10	6.6	7.2	---	---	---	92	50	61
MONTH	>1000	---	---	81	4.0	13	440	1.0	25	>1000	5.1	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	96	58	80	40	14	22	16	7.2	11	560	74	180
2	170	78	95	65	15	41	10	3.3	7.9	76	50	62
3	120	83	94	60	14	34	13	6.5	8.8	69	51	61
4	>1000	87	---	190	21	62	130	8.9	18	65	45	56
5	>1000	90	---	210	36	110	19	9.1	11	63	41	56
6	>1000	140	---	54	13	33	16	7.4	9.7	77	40	59
7	270	56	100	84	11	18	---	---	---	450	44	69
8	56	25	39	710	4.0	74	---	---	---	990	81	260
9	73	24	32	980	100	340	---	---	---	---	---	---
10	35	16	22	100	31	55	380	20	56	---	---	---
11	27	11	19	32	16	24	850	260	540	---	---	---
12	43	10	17	46	10	32	---	---	---	49	31	39
13	39	18	24	82	14	36	59	26	40	40	24	31
14	24	14	19	120	26	42	29	20	24	33	19	25
15	93	17	30	64	26	43	23	13	18	31	16	21
16	58	27	37	51	29	41	18	11	13	22	11	17
17	32	18	25	98	20	37	14	7.5	10	22	9.9	14
18	27	5.2	19	>1000	37	---	---	---	---	39	9.8	19
19	25	8.6	14	>1000	57	---	---	---	---	690	29	290
20	31	9.9	15	990	30	160	58	25	37	330	71	140
21	>1000	13	---	790	53	180	30	22	26	76	38	53
22	>1000	180	---	60	44	53	25	17	22	46	31	38
23	190	72	110	63	27	42	540	19	230	39	24	32
24	77	27	54	37	20	25	230	54	89	>1000	27	---
25	58	19	38	31	18	23	81	28	50	100	35	59
26	58	13	27	780	16	180	980	31	140	39	20	28
27	29	14	21	110	29	53	---	---	---	30	16	21
28	22	6.9	17	50	29	36	74	26	45	20	12	15
29	28	16	20	450	35	59	36	19	27	15	7.5	11
30	29	16	20	---	---	---	29	17	22	15	6.5	11
31	---	---	---	36	11	19	---	---	---	---	---	---
MONTH	>1000	5.2	---	>1000	---	---	---	---	---	>1000	---	---
YEAR	1000	1.0	40									

03277075 GUNPOWDER CREEK AT CAMP ERNST ROAD NEAR UNION, KY

LOCATION.--Lat 38°59'39", long 84°42'58", Boone County, Hydrologic Unit 05090203, on upstream right wing wall of bridge on Camp Ernest Road, 0.65 mi below South Fork Gunpowder Creek, 3.8 mi northwest of Union, and 14.2 mi above the mouth.

DRAINAGE AREA.--36.6 mi^2.

PERIOD OF RECORD.--April 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 700 ft above NGVD of 1929 (from topographic map).

REMARKS.--Records good except for periods of estimated records, which are fair.

COOPERATION.--Kentucky Northern Sanitation District No. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	.81	5.2	e5.9	57	21	48	.44	80	2.5	7.5	47
2	4.6	.74	5.0	e6.2	36	20	15	.33	41	16	5.6	17
3	3.7	1.8	4.0	e6.5	26	17	13	.23	21	2.4	27	10
4	3.5	1.8	e3.4	e6.9	22	93	11	.30	170	57	8.6	8.3
5	138	1.3	e2.6	e6.5	22	62	8.5	.52	68	18	4.2	6.5
6	24	1.7	e2.6	e7.2	19	32	29	.21	543	5.3	2.2	4.4
7	10	37	2.6	e11	17	24	35	11	145	1.8	1.6	4.4
8	6.1	7.3	2.8	e17	16	22	12	81	49	95	1.2	44
9	5.3	68	e2.4	e8.3	91	21	9.4	10	26	118	.80	38
10	5.0	53	2.0	e6.5	118	17	9.8	3.6	17	14	9.8	134
11	5.3	12	98	e6.2	40	16	14	2.2	15	6.3	7.4	20
12	3.2	6.7	95	e6.5	28	15	8.5	34	10	3.3	52	9.6
13	2.6	5.3	23	e6.6	24	40	4.9	5.2	15	1.6	4.8	7.1
14	2.0	4.8	98	13	30	19	4.1	1.8	6.9	.62	2.2	4.5
15	1.6	3.7	41	35	58	16	17	1.2	6.8	.27	1.1	3.1
16	1.6	3.1	1010	17	114	35	9.5	1.0	16	.22	.45	2.4
17	1.6	e2.4	176	12	74	33	4.9	56	4.1	1.3	.17	1.6
18	3.1	e1.7	e45	10	38	18	7.0	332	2.5	788	5.4	34
19	3.6	e1.3	e28	e34	30	16	4.4	97	1.3	380	304	56
20	2.2	e1.1	e18	e23	25	16	22	27	1.1	186	17	21
21	1.4	e.92	e14	e9.2	20	29	10	45	10	81	7.7	7.9
22	1.3	e.76	e10	e7.6	19	17	5.4	60	28	81	5.2	4.9
23	1.2	e.76	e9.2	e6.2	17	13	4.2	33	5.2	22	42	3.4
24	1.2	.97	e8.3	e5.6	16	13	8.2	110	2.5	11	7.5	132
25	1.2	75	e7.6	e5.4	189	12	4.2	40	.94	8.2	3.9	18
26	1.2	41	e7.6	e5.6	52	10	3.5	28	.51	301	326	9.4
27	1.2	17	e7.2	e6.5	32	11	2.7	76	.14	43	106	5.5
28	1.1	10	e6.9	e7.6	25	9.7	1.5	26	3.1	44	23	5.3
29	.92	6.9	e6.5	e11	---	9.3	.89	14	21	54	13	4.2
30	.79	6.2	e6.2	210	---	9.3	.52	11	4.4	22	8.8	2.6
31	.69	---	e5.9	158	---	10	---	7.2	---	11	161	---
TOTAL	245.20	375.06	1754.0	678.0	1255	696.3	328.11	1115.23	1314.49	2375.81	1167.12	666.1
MEAN	7.91	12.5	56.6	21.9	44.8	22.5	10.9	36.0	43.8	76.6	37.6	22.2
MAX	138	75	1010	210	189	93	48	332	543	788	326	134
MIN	.69	.74	2.0	5.4	16	9.3	.52	.21	.14	.22	.17	1.6

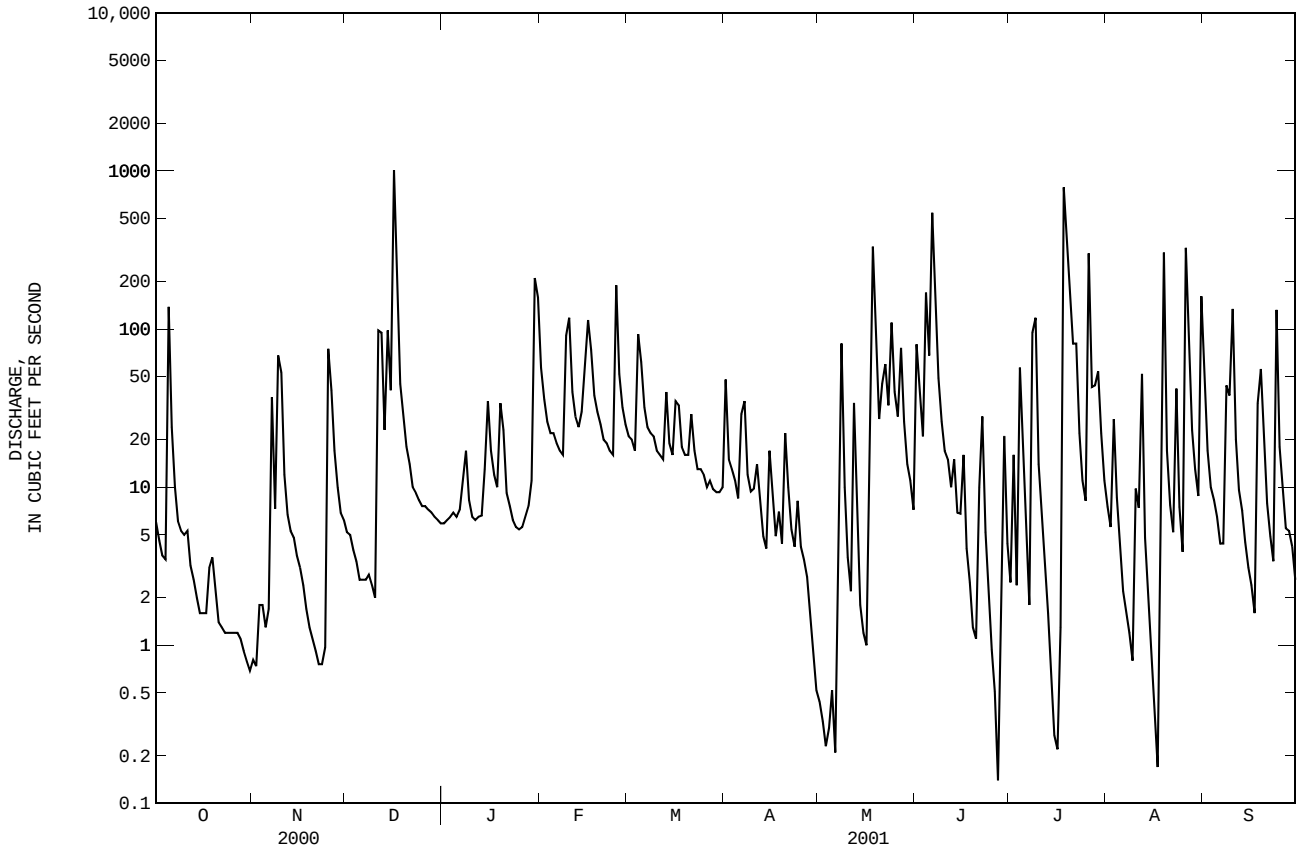
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	10.0	9.09	44.2	44.9	99.1	39.5	39.9	27.2	36.2	35.8	20.7	19.5
MAX	12.2	12.5	56.6	67.8	151	56.5	79.9	36.3	55.0	76.6	37.6	35.2
(WY)	2000	2001	2001	2000	2000	2000	2000	2000	2000	2001	2001	2000
MIN	7.91	5.68	31.8	21.9	44.8	22.5	10.9	9.25	9.79	11.8	7.20	1.01
(WY)	2001	2000	2000	2001	2001	2001	2001	1999	1999	1999	1999	1999

03277075 GUNPOWDER CREEK AT CAMP ERNST ROAD NEAR UNION, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	17972.56		11970.42			
ANNUAL MEAN	49.1		32.8		39.8	
HIGHEST ANNUAL MEAN					46.8	2000
LOWEST ANNUAL MEAN					32.8	2001
HIGHEST DAILY MEAN	1370	Jan 3	1010	Dec 16	1370	Jan 3 2000
LOWEST DAILY MEAN	.69	Oct 31	.14	Jun 27	.00	Sep 10 1999
ANNUAL SEVEN-DAY MINIMUM	.89	Oct 27	.36	Apr 30	.00	Sep 10 1999
MAXIMUM PEAK FLOW			5290	Jul 18	5780	Jan 3 2000
MAXIMUM PEAK STAGE			7.74	Jul 18	7.95	Jan 3 2000
10 PERCENT EXCEEDS	95		75		64	
50 PERCENT EXCEEDS	9.1		9.5		7.7	
90 PERCENT EXCEEDS	1.6		1.2		.82	

e Estimated



03277075 GUNPOWDER CREEK AT CAMP ERNST ROAD NEAR UNION, KY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 2000 to September 2001.

COOPERATION.--Northern Kentucky Sanitation District No. 1.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 2000 to September 2001.
pH: November 2000 to September 2001.
WATER TEMPERATURES: November 2000 to September 2001.
DISSOLVED OXYGEN: November 2000 to September 2001.
TURBIDITY: November 2000 to September 2001.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 4050 microsiemens, Jan. 22, 2001; minimum, 118 microsiemens, July 18, 2001.
pH.--Maximum, 10.4 units, Aug. 12, 2001; minimum, 7.4 units, Feb. 25, and May 8, 2001.
WATER TEMPERATURES: Maximum, 31.8°C, June 18, 2001; minimum, 0.0°C, several days in Dec. 2000 and Jan. and Feb. 2001.
DISSOLVED OXYGEN: Maximum, 16.7 mg/L, March 9, 2001; minimum, 1.2 mg/L, March 22, 2001.
TURBIDITY: Maximum, >1000 NTU, several days in 2001; minimum, 1.0 NTU, Feb. 3-7, and May 16, 2001.

REMARKS.--There were several periods of missing data because of equipment failure. Records are rated fair.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	706	681	694	2810	2220	2410
2	---	---	---	---	---	---	727	704	716	2920	2810	2890
3	---	---	---	---	---	---	718	692	702	2880	2630	2770
4	---	---	---	---	---	---	722	699	708	2630	2090	2370
5	---	---	---	---	---	---	732	714	723	2090	1670	1880
6	---	---	---	---	---	---	746	727	736	1830	1580	1650
7	---	---	---	---	---	---	760	740	747	1960	1830	1920
8	---	---	---	---	---	---	763	748	757	1900	1720	1790
9	---	---	---	---	---	---	763	733	748	1780	1720	1760
10	---	---	---	---	---	---	759	740	749	1730	1690	1700
11	---	---	---	---	---	---	759	294	621	1690	1630	1660
12	---	---	---	---	---	---	462	302	379	1630	1450	1550
13	---	---	---	---	---	---	1570	460	547	1450	1300	1360
14	---	---	---	---	---	---	2900	858	1930	1300	1240	1270
15	---	---	---	---	---	---	1790	1150	1470	1930	1250	1690
16	---	---	---	---	---	---	1180	245	575	1930	1640	1800
17	---	---	---	---	---	---	847	367	511	1640	1410	1510
18	---	---	---	---	---	---	1080	847	970	1410	1180	1280
19	---	---	---	---	---	---	1690	1060	1320	1710	1160	1430
20	---	---	---	---	---	---	1940	1690	1870	2340	1510	1910
21	---	---	---	---	---	---	2000	1530	1800	3650	2340	3080
22	---	---	---	---	---	---	2050	1570	1880	4050	3180	3760
23	---	---	---	---	---	---	2200	1920	2080	3180	2290	2840
24	---	---	---	---	---	---	2050	1630	1810	2290	1930	2130
25	---	---	---	---	---	---	1630	1400	1450	1940	1690	1840
26	---	---	---	---	---	---	1460	1350	1400	1770	1570	1690
27	---	---	---	---	---	---	1350	1200	1240	2750	1640	2190
28	---	---	---	---	---	---	1360	1200	1280	3100	2750	2980
29	---	---	---	---	---	---	1370	1270	1320	2890	1340	2420
30	---	---	---	---	---	---	1590	1360	1410	1650	926	1030
31	---	---	---	---	---	---	2250	1340	1650	992	799	853
MONTH	---	---	---	---	---	---	2900	245	1120	4050	799	1980

03277075 GUNPOWDER CREEK AT CAMP ERNST ROAD NEAR UNION, KY--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	900	795	870	749	680	734	961	733	807	819	800	810
2	1070	898	932	741	645	700	804	727	760	820	800	814
3	1170	1070	1120	743	633	702	839	613	800	826	810	818
4	1170	1070	1120	896	634	756	859	824	833	836	811	821
5	1210	1040	1100	691	653	672	871	838	855	860	820	844
6	1280	1140	1210	694	670	683	869	527	811	841	762	828
7	1310	1150	1230	709	675	692	709	504	630	939	758	844
8	1200	1090	1140	716	679	703	---	---	---	938	510	605
9	1200	878	1050	720	648	693	---	---	---	724	640	676
10	878	764	784	648	609	622	---	---	---	784	724	756
11	870	797	857	656	626	641	875	803	836	805	724	790
12	863	772	823	659	624	634	881	850	866	902	590	664
13	927	814	878	1460	639	985	871	809	846	662	629	645
14	1060	821	909	943	806	860	822	443	793	688	658	670
15	1130	991	1070	822	742	785	918	720	785	708	678	693
16	1030	678	919	1000	743	848	794	772	785	757	708	734
17	777	678	730	951	832	880	792	777	786	795	425	662
18	813	777	799	844	788	817	792	771	783	565	248	447
19	816	737	786	807	744	780	883	779	826	643	402	545
20	816	735	772	796	716	764	892	762	816	668	589	640
21	827	816	821	924	780	878	810	759	781	791	377	631
22	830	814	822	866	776	802	818	790	809	600	387	553
23	1030	830	953	804	773	791	817	786	803	684	560	614
24	1180	1030	1120	820	788	796	830	766	801	626	410	520
25	1190	655	812	801	787	795	894	828	868	675	532	605
26	741	684	726	791	777	785	900	877	890	676	609	651
27	756	703	738	803	777	791	888	876	883	680	445	523
28	745	694	729	840	803	818	888	847	879	657	544	625
29	---	---	---	839	787	823	880	834	854	660	588	648
30	---	---	---	796	767	779	834	806	818	718	656	693
31	---	---	---	807	769	791	---	---	---	706	626	690
MONTH	1310	655	922	1460	609	768	---	---	---	939	248	679

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	706	313	478	604	549	557	618	580	606	497	319	421
2	630	507	581	781	518	555	619	586	604	561	494	538
3	584	520	546	536	504	520	651	497	563	590	561	581
4	647	296	512	518	332	431	587	510	566	619	578	602
5	603	417	530	448	366	405	568	543	553	639	573	613
6	589	228	344	528	448	497	560	537	549	653	628	643
7	522	331	454	554	519	538	567	534	553	662	595	642
8	584	521	556	630	208	559	582	548	564	638	285	545
9	607	576	591	476	206	378	599	574	586	404	289	354
10	582	556	572	559	461	519	679	599	634	---	---	---
11	618	556	591	597	556	578	841	623	762	---	---	---
12	622	583	600	619	589	601	623	262	393	577	522	544
13	779	609	669	629	609	621	448	417	436	583	535	560
14	---	---	---	636	613	626	485	443	461	601	553	580
15	---	---	---	644	620	634	516	482	501	616	586	599
16	---	---	---	652	619	638	545	512	531	628	601	614
17	---	---	---	660	632	648	571	540	555	630	601	620
18	---	---	---	652	118	314	589	349	560	634	431	567
19	---	---	---	415	138	329	475	173	329	431	336	387
20	650	618	634	439	147	372	495	418	465	427	371	397
21	757	590	667	451	230	371	545	494	523	495	427	466
22	641	480	519	583	225	359	598	545	570	553	492	523
23	518	488	502	442	316	390	603	346	424	577	544	557
24	550	518	528	536	366	468	439	367	407	579	215	371
25	576	546	560	569	533	552	480	439	461	471	368	422
26	588	557	568	641	134	380	573	136	458	542	471	507
27	604	579	593	508	379	443	443	230	373	644	534	557
28	612	519	589	561	473	516	526	441	482	694	578	612
29	522	452	485	540	464	492	566	523	554	646	615	633
30	555	473	505	536	466	510	604	563	587	676	644	659
31	---	---	---	594	532	566	630	246	442	---	---	---
MONTH	---	---	---	781	118	496	841	136	518	---	---	---
YEAR	4050	118	848									

03277075 GUNPOWDER CREEK AT CAMP ERNST ROAD NEAR UNION, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	8.5	8.2	8.3	7.7	7.6	7.6
2	---	---	---	---	---	---	8.6	8.3	8.4	7.7	7.6	7.6
3	---	---	---	---	---	---	8.5	8.3	8.4	7.8	7.7	7.7
4	---	---	---	---	---	---	8.5	8.3	8.4	7.8	7.7	7.8
5	---	---	---	---	---	---	8.6	8.3	8.4	7.8	7.8	7.8
6	---	---	---	---	---	---	8.6	8.3	8.4	7.8	7.8	7.8
7	---	---	---	---	---	---	8.6	8.3	8.4	7.8	7.7	7.8
8	---	---	---	---	---	---	8.5	8.3	8.4	7.8	7.7	7.7
9	---	---	---	---	---	---	8.5	8.3	8.4	7.8	7.7	7.8
10	---	---	---	---	---	---	8.6	8.3	8.4	7.8	7.7	7.7
11	---	---	---	---	---	---	8.4	8.0	8.2	7.8	7.7	7.7
12	---	---	---	---	---	---	8.2	8.0	8.1	7.8	7.8	7.8
13	---	---	---	---	---	---	8.3	8.2	8.2	7.8	7.8	7.8
14	---	---	---	---	---	---	8.3	8.1	8.1	7.8	7.7	7.8
15	---	---	---	---	---	---	8.4	8.2	8.3	7.8	7.7	7.8
16	---	---	---	---	---	---	8.3	8.1	8.2	7.9	7.8	7.8
17	---	---	---	---	---	---	8.3	8.1	8.2	7.9	7.6	7.8
18	---	---	---	---	---	---	8.3	7.9	8.2	7.9	7.8	7.8
19	---	---	---	---	---	---	8.3	8.2	8.2	7.8	7.7	7.8
20	---	---	---	---	---	---	8.2	8.1	8.2	7.9	7.7	7.7
21	---	---	---	---	---	---	8.2	8.1	8.1	7.8	7.6	7.7
22	---	---	---	---	---	---	8.1	8.0	8.1	7.8	7.7	7.7
23	---	---	---	---	---	---	8.0	8.0	8.0	7.9	7.7	7.8
24	---	---	---	---	---	---	8.0	7.9	8.0	8.0	7.9	8.0
25	---	---	---	---	---	---	8.0	7.9	7.9	8.1	7.9	8.0
26	---	---	---	---	---	---	7.9	7.8	7.9	8.0	7.9	7.9
27	---	---	---	---	---	---	7.9	7.8	7.8	8.0	7.9	7.9
28	---	---	---	---	---	---	7.9	7.8	7.8	8.0	7.9	7.9
29	---	---	---	---	---	---	7.9	7.8	7.9	8.1	7.8	8.0
30	---	---	---	---	---	---	7.9	7.8	7.9	8.0	7.8	7.9
31	---	---	---	---	---	---	7.8	7.7	7.8	8.1	7.9	8.0
MONTH	---	---	---	---	---	---	8.6	7.7	8.2	8.1	7.6	7.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.1	7.9	8.0	8.6	8.3	8.4	7.9	7.6	7.8	8.2	7.7	7.9
2	8.2	8.0	8.1	8.8	8.3	8.5	7.9	7.6	7.7	8.2	7.7	7.8
3	8.1	8.0	8.0	8.9	8.3	8.5	8.1	7.7	7.8	8.2	7.7	7.9
4	8.1	7.9	8.0	8.5	8.1	8.3	8.1	7.8	7.9	8.2	7.6	7.8
5	8.0	7.9	8.0	8.2	7.9	8.1	7.9	7.7	7.8	8.2	7.7	7.9
6	8.1	7.8	7.9	8.4	8.2	8.3	7.8	7.5	7.7	8.1	7.6	7.8
7	8.0	7.8	7.9	8.5	8.3	8.4	7.8	7.5	7.6	7.9	7.5	7.7
8	8.1	7.8	7.9	8.6	8.4	8.5	---	---	---	7.8	7.4	7.6
9	8.0	7.5	7.8	8.6	8.4	8.5	---	---	---	8.0	7.5	7.7
10	7.8	7.5	7.7	8.5	8.5	8.5	---	---	---	8.1	7.6	7.7
11	7.9	7.6	7.8	8.6	8.4	8.5	8.0	7.7	7.8	8.1	7.6	7.8
12	8.1	7.6	7.8	8.7	8.5	8.6	8.1	7.7	7.9	7.9	7.6	7.7
13	8.3	7.9	8.1	8.7	8.4	8.6	8.2	7.7	7.9	8.1	7.5	7.8
14	8.2	8.0	8.1	8.7	8.2	8.5	8.3	7.8	8.0	8.2	7.7	7.9
15	8.1	7.9	8.0	8.7	8.1	8.3	8.0	7.8	7.9	8.2	7.6	7.8
16	8.1	7.9	8.0	8.5	8.1	8.2	8.2	7.7	7.9	7.9	7.6	7.7
17	8.2	7.8	8.0	8.4	8.1	8.2	8.3	7.8	8.1	8.1	7.6	7.8
18	8.2	8.0	8.1	8.6	8.2	8.4	8.5	8.1	8.3	8.1	7.7	7.8
19	8.1	7.9	8.0	8.6	8.2	8.4	8.5	8.1	8.3	8.0	7.7	7.9
20	8.4	7.9	8.1	8.6	8.1	8.3	8.2	7.9	8.0	8.2	7.9	8.0
21	8.4	8.0	8.2	8.4	8.0	8.2	8.0	7.7	7.9	8.1	7.8	7.9
22	8.4	8.0	8.2	8.1	7.8	8.0	8.1	7.6	7.8	8.1	7.8	8.0
23	8.5	8.0	8.2	8.2	7.8	8.0	8.1	7.7	7.8	8.2	7.9	8.0
24	8.5	8.1	8.3	8.1	7.8	8.0	8.2	7.8	7.9	8.0	7.9	8.0
25	8.1	7.4	7.7	8.3	7.9	8.1	8.3	7.7	8.0	8.3	8.0	8.1
26	8.3	7.8	8.0	8.3	8.1	8.2	8.3	7.8	8.0	8.3	8.0	8.1
27	8.5	8.0	8.2	8.2	8.0	8.1	8.3	7.8	8.0	8.1	7.8	7.9
28	8.6	8.1	8.4	8.1	8.0	8.1	8.3	7.7	7.9	8.2	7.9	8.1
29	---	---	---	8.2	7.9	8.0	8.3	7.8	7.9	8.3	7.9	8.1
30	---	---	---	8.1	7.9	8.0	8.2	7.7	7.9	8.3	7.9	8.1
31	---	---	---	8.1	7.9	8.0	---	---	---	8.3	7.9	8.1
MONTH	8.6	7.4	8.0	8.9	7.8	8.3	---	---	---	8.3	7.4	7.9

03277075 GUNPOWDER CREEK AT CAMP ERNST ROAD NEAR UNION, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.1	7.7	7.9	8.7	7.9	8.2	8.3	7.9	8.1	8.3	7.9	8.1
2	8.0	7.8	7.9	8.4	7.9	8.2	8.3	7.9	8.1	8.4	8.0	8.2
3	8.2	7.8	8.0	8.6	7.9	8.2	8.1	7.8	8.0	8.4	8.1	8.2
4	8.0	7.6	7.8	8.0	7.8	7.9	8.3	7.8	8.0	8.4	8.1	8.3
5	8.1	7.7	7.9	8.3	7.8	8.0	8.4	7.8	8.1	8.4	8.1	8.2
6	8.0	7.6	7.8	8.5	8.0	8.2	8.5	7.8	8.1	8.4	8.1	8.2
7	8.1	7.7	7.9	8.3	7.9	8.0	8.4	7.8	8.1	8.5	8.1	8.3
8	8.2	8.0	8.1	8.3	7.7	8.0	8.4	7.8	8.0	8.3	7.8	8.1
9	8.3	8.0	8.1	8.1	7.7	7.9	8.3	7.7	8.0	8.2	7.8	8.0
10	8.3	8.0	8.1	8.3	7.9	8.1	8.3	7.8	8.0	---	---	---
11	8.3	7.9	8.1	8.4	7.9	8.1	8.3	7.8	8.1	---	---	---
12	8.4	8.0	8.2	8.4	8.0	8.2	10.4	7.7	8.4	8.4	8.0	8.2
13	8.4	7.9	8.2	8.5	8.0	8.2	8.5	7.8	8.1	8.4	8.0	8.2
14	8.4	8.0	8.2	8.5	8.0	8.2	8.7	8.0	8.3	8.3	8.1	8.2
15	8.5	8.0	8.2	8.3	7.9	8.1	8.7	8.0	8.3	8.4	8.1	8.2
16	8.4	7.7	8.0	8.3	7.9	8.1	8.5	8.0	8.2	8.4	8.1	8.2
17	---	---	---	8.4	7.9	8.1	8.5	7.9	8.2	8.4	8.0	8.2
18	---	---	---	8.1	7.7	7.8	8.5	7.9	8.1	8.2	7.8	8.0
19	---	---	---	8.1	7.6	7.9	8.1	7.8	8.0	7.9	7.8	7.8
20	8.6	7.9	8.2	8.1	7.6	7.9	8.4	8.0	8.2	8.2	7.8	8.0
21	8.6	8.0	8.2	8.0	7.6	7.8	8.4	8.0	8.2	8.3	7.9	8.1
22	8.4	7.9	8.2	8.0	7.6	7.8	8.4	8.0	8.2	8.3	7.9	8.1
23	8.7	8.0	8.3	8.1	7.6	7.9	8.1	7.8	7.9	8.3	7.9	8.1
24	8.8	8.1	8.4	8.1	7.8	7.9	8.3	7.7	8.0	8.0	7.7	7.8
25	8.9	8.1	8.4	8.2	7.8	8.0	8.4	7.8	8.1	8.1	7.8	7.9
26	8.8	7.9	8.3	8.0	7.5	7.7	8.3	7.7	8.0	8.2	7.9	8.0
27	8.8	7.8	8.3	8.1	7.7	7.9	8.1	7.7	7.9	8.2	7.7	8.1
28	8.8	7.8	8.1	7.9	7.8	7.9	8.4	7.9	8.2	8.2	7.7	8.0
29	8.1	7.8	8.0	7.9	7.7	7.8	8.4	8.1	8.2	8.2	8.0	8.1
30	8.4	7.8	8.1	8.1	7.7	7.9	8.3	8.0	8.2	8.2	7.9	8.0
31	---	---	---	8.2	7.8	8.0	8.2	7.8	8.0	---	---	---
MONTH	---	---	---	8.7	7.5	8.0	10.4	7.7	8.1	---	---	---
YEAR	10.4	7.4	8.0									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	3.7	2.7	3.2	.3	.2	.3
2	---	---	---	---	---	---	3.3	1.7	2.7	.3	.2	.2
3	---	---	---	---	---	---	1.7	.0	.7	.3	.2	.2
4	---	---	---	---	---	---	.6	.0	.4	.3	.2	.3
5	---	---	---	---	---	---	1.4	.0	.6	.3	.3	.3
6	---	---	---	---	---	---	.6	.0	.4	.3	.3	.3
7	---	---	---	---	---	---	.8	.0	.6	.3	.3	.3
8	---	---	---	---	---	---	1.3	.0	.7	.3	.3	.3
9	---	---	---	---	---	---	.6	.0	.4	.3	.2	.3
10	---	---	---	---	---	---	2.4	.0	1.1	.2	.2	.2
11	---	---	---	---	---	---	6.2	1.9	3.3	.3	.2	.2
12	---	---	---	---	---	---	6.0	1.1	2.9	.3	.2	.2
13	---	---	---	---	---	---	1.1	.0	.4	.3	.2	.2
14	---	---	---	---	---	---	1.9	.0	1.3	.3	.2	.2
15	---	---	---	---	---	---	2.8	1.2	2.0	.2	.2	.2
16	---	---	---	---	---	---	6.6	2.8	5.1	.3	.2	.2
17	---	---	---	---	---	---	6.3	.0	2.6	.3	.2	.2
18	---	---	---	---	---	---	.6	.4	.4	.4	.2	.3
19	---	---	---	---	---	---	.5	.4	.4	.3	.2	.2
20	---	---	---	---	---	---	.4	.3	.4	.3	.1	.2
21	---	---	---	---	---	---	.5	.4	.4	.3	.2	.2
22	---	---	---	---	---	---	.4	.3	.4	.2	.2	.2
23	---	---	---	---	---	---	.4	.4	.4	.3	.2	.2
24	---	---	---	---	---	---	.4	.4	.4	.3	.2	.3
25	---	---	---	---	---	---	.4	.3	.3	.4	.3	.3
26	---	---	---	---	---	---	.4	.3	.3	.3	.3	.3
27	---	---	---	---	---	---	.3	.3	.3	.4	.3	.3
28	---	---	---	---	---	---	.3	.3	.3	.4	.3	.3
29	---	---	---	---	---	---	.3	.3	.3	.6	.0	.4
30	---	---	---	---	---	---	.3	.3	.3	4.4	.0	3.1
31	---	---	---	---	---	---	.3	.3	.3	4.1	2.9	3.5
MONTH	---	---	---	---	---	---	6.6	.0	1.1	4.4	.0	.4

03277075 GUNPOWDER CREEK AT CAMP ERNST ROAD NEAR UNION, KY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.4	2.7	3.4	5.2	1.7	3.7	11.5	8.3	10.0	24.1	16.7	20.3
2	3.0	.0	1.4	7.6	4.8	6.0	11.9	6.3	9.3	25.1	17.4	21.3
3	.6	.0	.4	8.7	6.0	7.3	14.8	9.9	12.2	---	---	---
4	2.3	.1	1.1	7.9	5.5	6.6	15.3	9.5	12.7	26.3	19.6	22.7
5	1.9	1.3	1.6	5.5	2.7	4.4	16.6	10.1	13.7	25.8	18.4	22.1
6	3.1	1.1	2.0	3.5	1.3	2.4	17.8	15.4	16.5	26.2	19.3	22.7
7	2.8	.1	1.6	6.0	2.2	3.9	21.8	15.2	18.4	23.4	20.0	21.7
8	6.3	1.8	3.9	6.6	2.4	4.5	---	---	---	21.6	18.4	20.1
9	10.8	6.3	8.3	5.8	3.1	4.6	---	---	---	22.1	16.3	19.4
10	9.2	3.5	5.7	6.4	1.5	4.2	---	---	---	24.6	17.5	20.8
11	3.5	.8	2.3	9.1	3.9	6.5	23.5	18.0	20.7	26.3	18.8	22.1
12	4.3	1.4	2.9	8.4	6.2	7.4	23.9	19.2	21.4	21.4	18.8	20.1
13	6.1	4.3	5.0	10.1	7.3	8.7	22.5	16.9	19.6	20.8	15.3	18.0
14	9.3	6.1	7.4	10.7	6.5	8.7	21.6	14.7	18.3	22.0	14.7	18.3
15	9.3	7.1	8.2	9.6	7.5	8.6	19.2	14.4	16.9	24.2	16.8	20.1
16	7.1	5.3	6.5	9.2	8.2	8.7	16.9	11.8	13.9	22.3	19.7	21.3
17	5.3	1.6	3.4	8.4	5.2	6.7	13.6	8.9	10.6	23.4	19.5	20.9
18	2.8	.0	1.4	8.4	3.5	6.2	12.7	6.5	9.6	23.5	19.5	20.7
19	5.1	.6	2.7	8.7	4.2	6.7	15.9	8.5	12.1	20.1	18.7	19.4
20	6.8	3.9	5.3	8.3	6.1	7.3	13.5	11.7	12.6	22.0	17.2	19.6
21	6.4	3.8	5.0	9.6	6.4	7.9	19.1	13.1	15.8	21.4	19.8	20.5
22	4.1	1.9	2.5	11.0	5.7	8.5	22.8	17.4	19.9	20.5	17.9	19.3
23	5.1	1.6	3.2	11.8	6.2	9.3	24.2	18.4	21.0	17.9	15.1	16.0
24	8.6	3.7	5.5	11.5	8.3	9.8	20.7	16.6	18.2	17.3	14.1	15.5
25	11.1	8.4	9.8	8.7	4.9	6.8	19.4	12.3	15.7	17.3	14.3	15.9
26	8.4	5.1	7.0	6.0	2.6	4.5	19.7	11.6	15.5	17.9	14.3	16.1
27	7.1	5.1	6.1	6.8	2.2	4.4	22.0	13.2	17.4	16.6	14.4	15.6
28	6.5	3.6	5.1	8.3	2.5	5.9	21.6	14.5	17.9	19.8	13.7	16.7
29	---	---	---	9.7	6.8	8.2	21.3	12.8	16.9	21.1	15.4	18.4
30	---	---	---	11.5	6.4	9.1	23.1	13.1	18.1	21.2	17.0	19.3
31	---	---	---	12.1	8.9	10.6	---	---	---	18.9	16.0	16.7
MONTH	11.1	.0	4.2	12.1	1.3	6.7	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.6	16.0	17.0	29.4	23.5	26.0	29.6	25.2	27.5	23.7	21.3	22.5
2	16.9	14.5	15.6	24.9	20.2	22.9	29.6	25.6	27.6	23.4	19.6	21.7
3	17.9	14.3	16.2	25.2	19.7	22.4	28.1	25.4	26.7	23.3	20.2	22.0
4	17.2	15.7	16.3	23.2	20.7	21.9	28.4	24.2	26.3	25.4	22.1	23.5
5	19.3	15.9	17.4	25.9	21.0	23.3	29.3	23.6	26.4	25.1	21.5	23.3
6	20.8	17.9	19.3	25.9	19.5	22.8	29.2	24.3	26.8	25.0	20.1	22.6
7	20.0	18.2	19.0	23.7	20.5	21.8	30.9	25.4	28.0	26.3	22.3	24.1
8	22.0	17.7	19.8	25.9	22.2	23.6	31.2	25.8	28.4	25.6	22.8	24.2
9	22.4	17.1	19.9	26.2	22.0	24.0	---	---	---	25.4	22.6	24.0
10	23.4	17.8	20.8	28.9	23.3	26.1	28.0	26.0	26.9	23.8	20.8	22.1
11	24.8	19.1	22.1	28.7	24.1	26.3	27.8	25.0	26.5	22.2	18.5	20.5
12	27.1	21.9	24.6	26.0	21.4	23.5	27.3	23.8	25.6	21.5	18.2	20.3
13	27.7	22.6	25.4	26.5	19.5	22.9	27.4	22.7	25.1	22.6	18.6	20.7
14	30.1	23.5	26.4	27.0	19.3	23.0	26.7	22.4	24.5	21.1	17.9	19.4
15	29.6	22.8	25.9	27.3	19.3	23.4	26.4	20.5	23.5	19.7	15.8	17.7
16	27.9	22.6	25.1	27.1	20.4	23.8	25.0	22.0	23.6	19.7	15.2	17.3
17	30.8	19.3	23.7	28.3	22.5	25.3	26.0	20.3	23.2	20.5	15.3	17.7
18	31.8	17.3	22.8	26.4	22.0	23.4	25.0	20.5	22.6	19.5	17.8	18.6
19	---	---	---	26.1	22.4	24.1	23.2	20.1	21.6	19.5	18.7	19.1
20	26.4	23.2	24.4	28.9	23.8	25.6	22.5	20.2	21.4	19.9	17.3	18.8
21	24.7	21.7	22.9	27.2	23.0	25.0	23.6	19.1	21.6	19.4	17.2	18.4
22	22.4	20.3	21.1	26.9	23.7	25.4	23.3	20.8	22.0	20.8	17.4	18.8
23	21.9	18.4	20.1	28.9	24.5	26.6	23.7	21.4	22.6	21.3	16.7	18.9
24	25.4	17.7	21.3	28.7	25.6	27.4	25.4	21.5	23.5	19.5	15.6	17.8
25	26.7	19.2	22.8	29.6	26.2	28.0	25.7	22.7	24.2	15.6	13.5	14.2
26	27.2	20.1	23.6	28.3	23.6	24.9	24.9	22.9	23.6	13.8	12.0	13.0
27	27.8	21.3	24.6	26.3	21.9	24.1	24.8	22.1	23.4	15.7	11.9	13.7
28	27.7	22.0	24.7	24.5	22.6	23.6	25.1	21.8	23.6	15.1	12.4	13.7
29	27.1	22.2	24.8	26.2	23.2	24.4	25.0	22.5	23.7	15.5	11.4	13.3
30	---	---	---	27.8	23.1	25.4	---	---	---	15.8	11.5	13.6
31	---	---	---	28.7	24.1	26.7	25.2	22.8	23.7	---	---	---
MONTH	---	---	---	29.6	19.3	24.4	---	---	---	26.3	11.4	19.2
YEAR	31.8	.0	13.6									

03277075 GUNPOWDER CREEK AT CAMP ERNST ROAD NEAR UNION, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	14.2	11.2	12.3	11.0	10.4	10.6
2	---	---	---	---	---	---	15.0	11.4	12.7	10.9	10.0	10.5
3	---	---	---	---	---	---	14.9	12.2	13.2	10.2	9.2	9.7
4	---	---	---	---	---	---	15.0	12.6	13.4	10.0	9.2	9.6
5	---	---	---	---	---	---	15.4	12.2	13.5	9.9	9.0	9.5
6	---	---	---	---	---	---	15.6	12.7	13.7	9.9	8.8	9.3
7	---	---	---	---	---	---	14.9	12.1	13.1	10.1	8.9	9.3
8	---	---	---	---	---	---	14.3	11.6	12.6	10.4	9.2	9.8
9	---	---	---	---	---	---	14.7	12.1	13.2	10.3	9.5	9.9
10	---	---	---	---	---	---	14.4	11.6	12.7	10.6	9.6	10.0
11	---	---	---	---	---	---	12.5	9.7	11.2	12.1	9.5	10.7
12	---	---	---	---	---	---	12.1	10.0	11.3	12.2	10.9	11.6
13	---	---	---	---	---	---	13.2	11.9	12.5	12.5	11.3	11.9
14	---	---	---	---	---	---	12.5	11.3	11.8	14.1	10.5	11.8
15	---	---	---	---	---	---	12.7	11.2	11.7	14.8	12.7	14.3
16	---	---	---	---	---	---	11.4	10.3	10.8	12.7	11.2	11.6
17	---	---	---	---	---	---	12.9	10.4	11.8	11.8	11.0	11.3
18	---	---	---	---	---	---	13.3	12.7	12.9	11.5	10.8	11.1
19	---	---	---	---	---	---	13.6	12.8	13.1	12.4	10.9	11.6
20	---	---	---	---	---	---	13.4	12.6	13.1	12.4	11.1	11.7
21	---	---	---	---	---	---	13.3	12.9	13.1	12.2	10.2	11.2
22	---	---	---	---	---	---	13.8	12.9	13.2	11.7	10.2	11.0
23	---	---	---	---	---	---	13.4	12.4	13.0	11.9	10.2	11.0
24	---	---	---	---	---	---	12.7	11.7	12.2	11.8	10.7	11.2
25	---	---	---	---	---	---	12.3	11.4	11.7	11.9	10.8	11.3
26	---	---	---	---	---	---	12.3	11.4	11.8	11.3	9.8	10.6
27	---	---	---	---	---	---	12.0	11.0	11.6	12.1	10.4	11.2
28	---	---	---	---	---	---	12.1	11.5	11.8	11.9	9.8	10.9
29	---	---	---	---	---	---	12.2	11.2	11.7	12.1	10.5	11.1
30	---	---	---	---	---	---	11.9	10.8	11.5	12.3	10.9	11.4
31	---	---	---	---	---	---	11.1	10.5	10.8	12.2	11.1	11.8
MONTH	---	---	---	---	---	---	15.6	9.7	12.4	14.8	8.8	10.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.9	11.6	12.2	16.3	12.2	13.9	7.7	4.7	6.4	8.9	4.0	5.9
2	14.3	12.0	13.3	16.2	12.0	13.5	8.0	5.1	6.6	8.6	3.9	5.6
3	14.9	13.4	14.0	16.6	11.9	13.7	8.6	6.1	7.3	---	---	---
4	14.5	12.8	13.7	13.9	11.6	12.5	9.6	5.8	7.8	8.0	3.7	5.2
5	13.9	12.8	13.2	14.3	11.9	13.1	8.1	4.8	6.5	8.4	3.8	5.6
6	14.5	12.8	13.5	15.9	13.4	14.5	7.1	4.3	5.7	8.7	4.1	5.7
7	15.0	12.1	13.6	16.2	13.2	14.6	7.8	6.0	7.1	7.0	3.8	5.4
8	13.8	10.3	12.3	16.5	13.2	14.5	---	---	---	6.9	1.9	5.8
9	12.4	9.3	10.2	16.7	13.1	14.7	---	---	---	7.6	5.1	6.1
10	13.8	11.7	13.2	15.9	13.1	14.3	---	---	---	7.6	4.8	5.9
11	15.5	13.3	14.4	15.9	13.0	14.4	7.4	3.7	5.6	7.7	4.8	5.8
12	14.5	11.8	13.5	16.4	13.4	14.8	8.5	4.9	6.8	7.2	4.7	6.0
13	14.0	10.9	12.2	15.9	9.8	12.9	9.8	6.1	7.7	8.2	5.5	6.7
14	12.7	9.2	11.0	12.7	8.6	10.7	10.8	7.1	8.6	9.0	5.6	7.0
15	10.5	7.8	9.4	12.7	8.4	10.0	9.1	6.3	7.3	9.1	5.3	6.8
16	11.8	7.8	9.7	9.9	6.4	8.3	9.0	5.5	7.2	7.7	4.9	6.0
17	12.2	10.2	11.3	9.3	6.7	7.8	10.4	6.6	8.5	8.9	5.2	6.2
18	13.3	11.0	12.1	10.0	7.1	8.3	10.9	8.5	9.8	7.6	5.9	6.8
19	12.2	9.0	10.8	10.1	6.9	8.5	10.7	7.6	9.2	7.6	6.9	7.3
20	11.9	9.0	10.1	9.4	6.7	7.8	7.6	4.5	6.4	8.1	6.5	7.3
21	13.0	9.0	11.0	---	---	---	5.2	3.3	4.1	7.7	6.4	6.9
22	16.6	9.9	13.9	6.1	1.2	4.1	6.4	3.3	4.7	7.5	6.6	7.1
23	16.0	11.0	13.5	9.9	6.7	8.4	6.8	4.1	5.2	8.3	6.9	7.7
24	14.5	9.5	11.9	9.3	7.1	8.2	8.7	4.6	6.5	8.8	7.4	7.9
25	9.6	7.7	8.7	10.4	8.1	9.5	10.5	5.8	7.5	8.4	7.4	7.9
26	11.4	8.5	10.2	11.6	9.4	10.8	10.1	5.5	7.3	9.0	7.4	8.1
27	13.5	10.5	11.6	11.8	9.9	10.9	10.1	4.4	6.9	8.8	7.5	8.2
28	14.9	11.3	12.8	11.1	9.1	10.2	9.6	4.2	6.0	9.6	7.3	8.4
29	---	---	---	9.7	7.8	9.0	9.7	4.4	6.3	9.4	7.1	8.1
30	---	---	---	9.3	7.1	8.3	9.5	4.2	6.2	10.0	7.1	8.3
31	---	---	---	8.4	6.8	7.5	---	---	---	10.0	7.3	8.6
MONTH	16.6	7.7	12.0	---	---	---	---	---	---	---	---	---

03277075 GUNPOWDER CREEK AT CAMP ERNST ROAD NEAR UNION, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.9	7.8	8.4	10.7	6.8	8.1	9.8	6.4	7.7	8.1	6.9	7.4
2	9.6	8.5	8.9	10.1	7.4	8.5	9.7	6.1	7.5	8.6	6.7	7.6
3	10.3	8.4	9.2	10.6	7.3	8.4	7.6	5.9	6.6	8.5	6.6	7.4
4	9.5	8.4	8.8	8.6	7.3	7.9	8.8	5.8	6.9	8.4	6.3	7.1
5	10.6	8.6	9.3	8.6	7.3	8.0	9.1	5.7	7.0	8.6	6.2	7.1
6	9.1	7.5	8.3	9.6	7.4	8.4	9.5	5.3	7.0	9.0	6.5	7.4
7	8.6	7.7	8.3	9.8	7.8	8.5	8.6	5.1	6.4	9.2	6.3	7.2
8	9.1	7.4	8.2	9.6	7.8	8.3	8.4	5.0	6.3	8.0	6.3	7.0
9	9.4	7.0	8.0	8.6	7.3	8.2	---	---	---	7.7	6.4	6.8
10	9.2	6.9	7.8	8.9	7.3	7.9	7.9	5.1	6.3	---	---	---
11	9.4	6.4	7.8	9.4	7.1	7.9	8.8	5.5	6.9	---	---	---
12	10.7	6.1	7.7	10.1	6.6	7.9	7.5	5.9	6.6	8.6	6.8	7.6
13	10.1	6.0	7.5	9.5	6.5	7.6	8.6	5.8	6.9	8.9	6.7	7.5
14	10.1	5.9	7.4	9.5	6.2	7.4	9.7	6.0	7.4	9.2	6.7	7.6
15	10.4	5.9	7.3	9.4	6.0	7.2	10.2	6.2	7.7	9.6	7.2	8.0
16	8.4	5.4	6.5	9.4	5.8	7.2	9.1	6.1	7.4	9.4	7.2	8.0
17	10.0	5.5	7.1	9.2	5.7	7.1	9.3	6.2	7.3	9.3	7.2	8.1
18	10.1	6.8	8.6	7.7	5.8	7.1	8.9	6.1	7.0	8.4	7.0	7.4
19	---	---	---	7.6	6.5	7.1	7.8	6.7	7.4	7.7	6.9	7.2
20	11.9	6.3	8.3	6.9	6.1	6.6	7.9	6.4	7.1	8.5	7.3	7.8
21	11.9	7.1	8.4	7.0	5.9	6.5	8.4	6.3	7.2	9.0	7.3	8.0
22	9.5	6.9	8.3	6.5	5.2	6.0	8.7	6.3	7.1	9.5	7.3	8.0
23	11.4	7.7	9.1	6.0	5.2	5.6	7.2	6.0	6.5	9.3	7.2	7.9
24	12.1	7.6	9.1	7.8	5.5	6.3	8.0	5.7	6.5	8.4	7.1	7.9
25	13.0	7.3	9.1	8.1	5.7	6.7	7.9	5.6	6.5	10.3	8.1	9.2
26	12.5	6.9	9.0	7.4	5.7	6.8	7.8	5.9	6.7	10.2	8.7	9.4
27	12.8	6.6	8.8	7.6	6.2	7.0	7.4	6.7	7.1	10.2	7.0	9.1
28	13.3	6.4	8.3	7.4	6.5	6.9	8.0	6.5	7.2	10.3	6.9	8.7
29	8.5	6.9	7.7	7.4	6.4	6.8	8.3	6.6	7.2	10.6	8.7	9.4
30	---	---	---	8.4	6.5	7.3	---	---	---	10.4	8.6	9.2
31	---	---	---	8.9	6.5	7.5	7.4	6.3	6.9	---	---	---
MONTH	---	---	---	10.7	5.2	7.4	---	---	---	---	---	---
YEAR	16.7	1.2	9.1									

TURBIDITY (NTU), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	19	17	18	49	45	47
2	---	---	---	---	---	---	18	16	17	55	48	50
3	---	---	---	---	---	---	19	18	18	69	54	61
4	---	---	---	---	---	---	19	18	19	92	68	79
5	---	---	---	---	---	---	19	17	18	130	90	110
6	---	---	---	---	---	---	18	17	18	190	130	150
7	---	---	---	---	---	---	18	17	17	230	180	200
8	---	---	---	---	---	---	18	17	17	250	220	230
9	---	---	---	---	---	---	18	17	17	240	160	200
10	---	---	---	---	---	---	18	16	17	270	110	150
11	---	---	---	---	---	---	>1000	16	---	350	120	170
12	---	---	---	---	---	---	410	72	170	250	120	160
13	---	---	---	---	---	---	74	39	51	270	160	210
14	---	---	---	---	---	---	180	43	85	360	51	170
15	---	---	---	---	---	---	130	34	60	550	70	300
16	---	---	---	---	---	---	>1000	68	---	88	28	54
17	---	---	---	---	---	---	250	81	130	120	3.0	37
18	---	---	---	---	---	---	82	59	70	120	15	27
19	---	---	---	---	---	---	60	51	54	160	27	89
20	---	---	---	---	---	---	54	43	48	130	33	67
21	---	---	---	---	---	---	47	42	44	100	27	72
22	---	---	---	---	---	---	45	41	42	93	49	74
23	---	---	---	---	---	---	42	39	40	97	58	80
24	---	---	---	---	---	---	50	42	47	95	54	75
25	---	---	---	---	---	---	50	44	48	94	39	70
26	---	---	---	---	---	---	44	42	42	81	32	59
27	---	---	---	---	---	---	44	42	43	85	39	58
28	---	---	---	---	---	---	43	42	43	60	16	41
29	---	---	---	---	---	---	44	43	43	870	9.0	130
30	---	---	---	---	---	---	44	43	43	870	73	270
31	---	---	---	---	---	---	45	43	44	190	29	78
MONTH	---	---	---	---	---	---	>1000	16	---	870	3.0	120

03277075 GUNPOWDER CREEK AT CAMP ERNST ROAD NEAR UNION, KY--Continued

TURBIDITY (NTU), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	30	8.0	17	46	15	22	77	12	44	54	11	18
2	60	4.0	18	55	20	29	41	21	28	17	11	14
3	5.0	1.0	2.7	88	26	46	150	22	42	24	14	16
4	2.0	1.0	1.2	280	40	130	82	32	43	68	17	20
5	2.0	1.0	1.3	180	39	82	34	19	24	22	16	19
6	2.0	1.0	1.3	92	27	46	>1000	20	---	85	18	22
7	5.0	1.0	2.5	68	24	38	>1000	70	---	68	27	37
8	7.0	3.0	4.3	96	25	51	---	---	---	540	26	170
9	960	6.0	100	150	26	57	---	---	---	73	41	53
10	960	57	220	45	25	28	---	---	---	58	35	43
11	59	25	38	33	24	27	150	21	29	91	23	39
12	29	16	20	35	25	28	120	26	49	210	37	90
13	23	16	18	270	28	90	150	28	59	61	33	37
14	36	19	24	76	25	39	95	33	66	70	30	41
15	67	30	48	43	24	30	260	41	110	160	6.0	58
16	330	38	140	57	29	41	170	55	97	22	1.0	6.7
17	230	54	110	59	37	44	200	43	97	>1000	3.0	---
18	57	37	43	46	26	34	320	39	160	>1000	97	---
19	45	36	39	53	30	39	53	37	44	370	77	170
20	60	38	47	210	32	74	150	44	74	77	40	56
21	180	39	65	450	30	180	98	17	42	>1000	39	---
22	89	36	43	---	---	---	---	---	---	840	78	220
23	95	31	55	---	---	---	---	---	---	330	60	97
24	61	43	48	---	---	---	---	---	---	610	91	220
25	>1000	49	---	140	13	78	18	10	13	97	49	75
26	270	42	94	200	99	150	14	10	12	86	39	51
27	190	19	45	660	34	140	15	10	12	380	50	170
28	110	15	36	610	13	110	16	11	12	60	41	48
29	---	---	---	---	---	---	51	12	17	55	47	51
30	---	---	---	14	9.2	11	42	11	20	66	37	51
31	---	---	---	22	8.6	11	---	---	---	47	38	43
MONTH	>1000	1.0	---	---	---	---	>1000	---	---	>1000	1.0	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	880	43	220	66	32	45	32	11	17	260	61	110
2	120	49	78	330	46	78	19	9.0	13	69	33	44
3	88	40	61	63	37	45	160	11	59	41	21	29
4	>1000	37	---	970	41	330	48	18	28	37	20	24
5	250	51	83	380	120	180	24	13	18	51	18	28
6	990	130	430	130	65	91	20	12	14	29	13	17
7	240	41	86	71	46	56	25	11	15	40	13	18
8	42	16	30	---	---	---	25	10	13	---	---	---
9	26	17	23	---	---	---	20	11	15	---	---	---
10	30	19	25	300	55	120	31	13	19	---	---	---
11	33	23	26	98	28	50	110	12	20	77	32	49
12	41	22	28	38	7.0	23	980	96	300	55	21	33
13	63	17	35	18	8.0	12	120	27	63	72	22	42
14	35	20	24	17	3.2	12	35	14	23	58	23	33
15	43	9.4	27	19	7.0	11	23	9.2	16	29	12	18
16	210	42	100	23	4.4	10	22	8.0	12	18	10	13
17	55	30	41	250	4.3	20	20	7.0	11	20	6.3	9.1
18	330	6.7	25	980	9.0	400	260	10	28	960	5.3	210
19	260	7.1	21	990	59	390	930	120	350	680	190	370
20	300	18	30	990	34	190	120	19	62	270	75	130
21	310	18	49	650	43	150	50	25	34	100	50	74
22	190	88	120	640	42	210	29	16	23	58	36	44
23	88	35	57	300	40	110	990	13	390	41	21	28
24	43	20	30	70	19	34	190	63	100	970	20	260
25	30	20	23	33	13	22	64	32	43	200	55	84
26	28	19	23	---	---	---	980	25	220	160	65	100
27	38	22	26	---	---	---	740	240	360	120	50	75
28	220	24	41	110	24	51	250	53	120	66	37	45
29	>1000	140	---	98	46	61	68	32	47	58	42	52
30	160	47	86	69	20	31	36	11	21	43	23	32
31	---	---	---	31	13	20	>1000	20	---	---	---	---
MONTH	>1000	6.7	---	---	---	---	>1000	7.0	---	---	---	---
YEAR	>1000	1.0	72									

03277130 MUD LICK CREEK AT HIGHWAY 42 NEAR BEAVERLICK, KY

LOCATION.--Lat 38°50'42", long 84°43'15", Boone County, Hydrologic Unit 05090203, at bridge on Highway 42, 2.8 mi southwest of Beaverlick, 2.9 mi upstream from the mouth, and 3.0 mi downstream from the confluence of Fullers Creek and McCoys Fork.

DRAINAGE AREA.--36.4 mi^2.

PERIOD OF RECORD.--December 1, 2000 to September 30, 2001.

GAGE.--Water-stage recorder. Datum of gage is 487.731 ft above NGVD of 1929.

REMARKS.--Records fair except for those estimated which are poor. Peak stage for the period December 1 to September 30 was greater than 7.47 ft July 18. The peak flow for the period December 1 to September 30 was greater than 5,330 ft^3/s.

COOPERATION.--Northern Kentucky Sanitation District No. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	e2.5	e6.2	63	27	16	4.9	57	14	13	112
2	---	---	e2.2	e5.8	42	25	15	5.5	8.7	13	10	22
3	---	---	e2.1	e5.7	32	22	12	5.8	6.8	19	12	13
4	---	---	e2.0	e5.5	27	169	13	6.2	49	13	14	11
5	---	---	e1.9	e5.3	23	129	13	5.5	92	16	9.3	8.8
6	---	---	e1.8	e5.3	21	61	18	5.5	437	19	8.6	7.1
7	---	---	e1.7	e5.3	18	44	28	8.3	165	12	8.4	6.3
8	---	---	e1.7	e5.5	17	36	20	22	56	100	8.3	6.9
9	---	---	e1.6	e5.5	58	31	18	8.8	32	197	8.1	11
10	---	---	e1.6	e5.6	147	24	18	6.4	21	34	8.1	29
11	---	---	e8.6	e5.7	50	22	17	5.3	15	23	8.4	7.5
12	---	---	78	e5.8	37	20	17	9.6	14	17	8.6	5.4
13	---	---	23	e6.0	31	21	20	7.7	24	15	9.1	4.6
14	---	---	69	e8.6	30	17	16	4.2	15	14	8.5	4.2
15	---	---	38	15	37	16	17	2.7	14	12	7.9	4.0
16	---	---	1040	12	104	18	15	1.9	33	10	7.1	3.7
17	---	---	203	e8.6	97	18	11	14	14	8.7	7.1	3.3
18	---	---	e49	e7.9	53	14	9.1	19	11	e760	8.3	3.1
19	---	---	e28	e7.4	42	13	8.3	20	9.9	e300	62	5.8
20	---	---	e17	e7.0	33	13	7.5	7.6	9.4	e100	16	6.9
21	---	---	e11	e6.7	26	20	7.0	5.4	12	e40	10	4.1
22	---	---	e8.9	e6.5	24	17	5.5	11	19	e79	8.4	3.1
23	---	---	e7.7	e6.5	22	14	4.7	6.5	19	e25	8.3	2.5
24	---	---	e6.5	e6.7	20	13	3.9	20	17	e18	7.7	4.1
25	---	---	e6.3	e7.0	118	12	4.3	8.4	13	e12	7.4	4.0
26	---	---	e6.2	e7.2	53	12	4.2	5.0	11	49	14	2.4
27	---	---	e6.5	e7.4	39	12	4.4	16	8.8	23	42	1.8
28	---	---	e6.5	e8.6	32	11	4.3	8.1	8.3	97	14	1.5
29	---	---	e6.5	e40	---	12	4.0	4.6	21	67	12	1.3
30	---	---	e6.3	231	---	12	4.6	3.8	22	34	11	1.1
31	---	---	e6.2	140	---	12	---	3.5	---	18	157	---
MEAN	---	---	53.3	19.6	46.3	28.6	11.9	8.49	41.2	69.6	17.2	10.1
MAX	---	---	1040	231	147	169	28	22	437	760	157	112
MIN	---	---	1.6	5.3	17	11	3.9	1.9	6.8	8.7	7.1	1.1

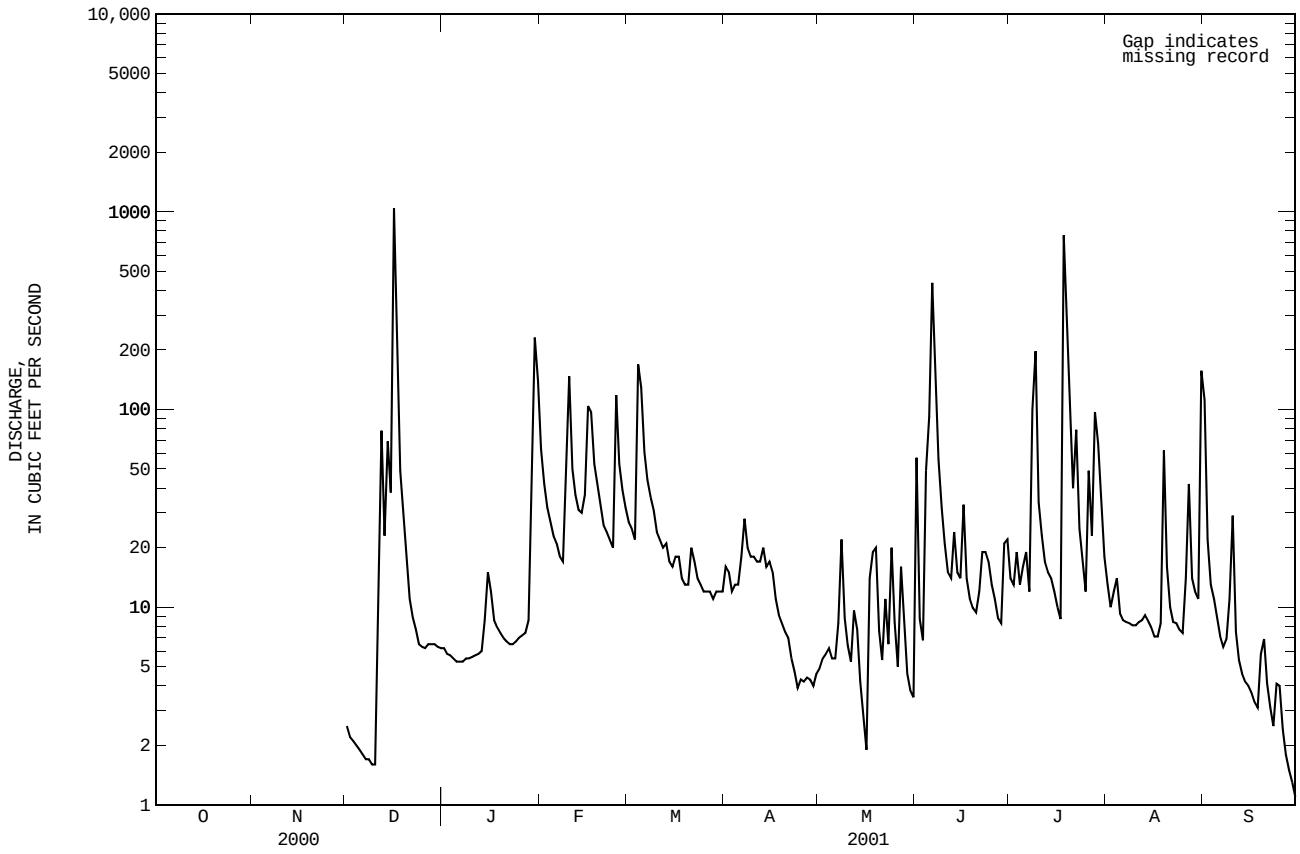
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2001, BY WATER YEAR (WY)

MEAN	---	---	53.3	19.6	46.3	28.6	11.9	8.49	41.2	69.6	17.2	10.1
MAX	---	---	53.3	19.6	46.3	28.6	11.9	8.49	41.2	69.6	17.2	10.1
(WY)	---	---	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
MIN	---	---	53.3	19.6	46.3	28.6	11.9	8.49	41.2	69.6	17.2	10.1
(WY)	---	---	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

03277130 MUD LICK CREEK AT HIGHWAY 42 NEAR BEAVERLICK, KY

SUMMARY STATISTICS	FOR 2001 WATER YEAR	
HIGHEST DAILY MEAN	1040	Dec 16
LOWEST DAILY MEAN	1.1	Sep 30
ANNUAL SEVEN-DAY MINIMUM	1.8	Dec 4
MAXIMUM PEAK FLOW	5330	Jul 18
MAXIMUM PEAK STAGE	7.47	Jul 18
10 PERCENT EXCEEDS	56	
50 PERCENT EXCEEDS	12	
90 PERCENT EXCEEDS	4.1	

e Estimated



03277130 MUD LICK CREEK AT HIGHWAY 42 NEAR BEAVERLICK, KY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 2000 to September 2001.

COOPERATION.--Northern Kentucky Sanitation District No. 1.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 2000 to September 2001.
pH: December 2000 to September 2001.
WATER TEMPERATURES: December 2000 to September 2001.
DISSOLVED OXYGEN: December 2000 to September 2001.
TURBIDITY: December 2000 to September 2001.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1520 microsiemens, Dec. 15, 2000; minimum, 150 microsiemens, June 5, 2001.
pH.--Maximum, 9.0 units, Dec. 2, 3, 5, 6, and 9, 2001; minimum, 7.3 units, May 6-7, 2001.
WATER TEMPERATURES: Maximum, 31.9°C, Aug. 8, 2001; minimum, 0.0°C, several days in Dec. 2000 and Jan. and Feb. 2001.
DISSOLVED OXYGEN: Maximum, 16.6 mg/L, Dec. 17, 2000; minimum, 2.1 mg/L, May 3, 2001.
TURBIDITY: Maximum, >1000 NTU, many days in 2001; minimum, 0.3 NTU, April 26, 2001.

REMARKS.--There were several periods of missing data because of equipment failure. Records are rated fair.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	736	717	726
2	---	---	---	---	---	---	687	667	678	756	717	723
3	---	---	---	---	---	---	695	676	686	898	756	829
4	---	---	---	---	---	---	715	695	707	1090	897	1020
5	---	---	---	---	---	---	723	693	711	1080	1020	1050
6	---	---	---	---	---	---	739	723	732	1020	953	986
7	---	---	---	---	---	---	751	727	740	962	899	934
8	---	---	---	---	---	---	747	725	736	988	899	936
9	---	---	---	---	---	---	769	730	752	1120	988	1070
10	---	---	---	---	---	---	757	726	743	1160	1120	1140
11	---	---	---	---	---	---	746	581	705	1170	1110	1140
12	---	---	---	---	---	---	635	484	526	1110	1020	1070
13	---	---	---	---	---	---	695	496	531	1020	937	987
14	---	---	---	---	---	---	1440	564	979	937	846	896
15	---	---	---	---	---	---	1520	1080	1340	846	764	799
16	---	---	---	---	---	---	1080	222	486	830	779	806
17	---	---	---	---	---	---	455	317	397	831	813	823
18	---	---	---	---	---	---	614	455	516	814	788	803
19	---	---	---	---	---	---	667	563	589	838	728	769
20	---	---	---	---	---	---	791	667	709	1160	800	994
21	---	---	---	---	---	---	876	758	807	1330	1160	1210
22	---	---	---	---	---	---	758	727	744	1420	1330	1390
23	---	---	---	---	---	---	798	734	759	1420	1200	1350
24	---	---	---	---	---	---	945	798	860	1200	1000	1100
25	---	---	---	---	---	---	958	892	935	1000	966	986
26	---	---	---	---	---	---	894	814	853	1000	966	978
27	---	---	---	---	---	---	814	760	787	978	874	928
28	---	---	---	---	---	---	760	731	747	881	834	860
29	---	---	---	---	---	---	731	710	718	912	532	851
30	---	---	---	---	---	---	732	714	722	769	602	670
31	---	---	---	---	---	---	738	732	736	676	581	653
MONTH	---	---	---	---	---	---	---	---	---	1420	532	951

03277130 MUD LICK CREEK AT HIGHWAY 42 NEAR BEAVERLICK, KY--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	676	653	663	589	574	580	667	639	655	715	658	693
2	695	676	687	594	578	588	663	647	656	713	673	697
3	746	695	716	599	571	587	675	653	663	712	679	702
4	765	746	757	619	460	540	694	661	679	715	643	701
5	785	756	767	535	450	495	699	658	681	714	689	705
6	807	784	793	553	535	549	700	526	661	715	675	706
7	827	805	814	565	552	560	683	603	653	711	653	693
8	849	826	836	563	552	558	690	637	667	720	621	684
9	936	483	831	557	527	553	682	629	659	696	610	683
10	613	522	557	562	548	553	690	660	677	686	668	676
11	594	565	582	569	554	563	702	658	683	694	681	689
12	613	593	606	573	558	565	701	650	679	739	687	715
13	622	612	616	589	572	580	693	634	670	760	700	749
14	622	610	614	583	563	575	681	621	661	778	757	763
15	735	622	663	609	576	586	668	652	661	795	778	787
16	783	583	714	611	594	602	669	635	658	806	794	801
17	636	578	589	616	594	601	671	657	664	801	567	738
18	599	588	594	663	616	637	664	611	647	715	557	648
19	599	589	594	692	663	678	653	611	640	650	511	566
20	599	588	594	692	669	682	660	636	648	693	574	646
21	602	585	595	---	---	---	654	618	644	736	693	717
22	606	590	597	720	660	686	678	609	657	836	730	770
23	607	584	598	747	720	741	690	570	654	837	746	795
24	685	602	627	745	723	733	699	654	685	746	526	684
25	773	424	623	716	683	702	705	679	691	674	599	618
26	636	601	618	693	671	681	723	693	705	689	633	662
27	610	592	600	675	662	669	727	703	715	709	643	676
28	600	580	590	667	654	662	729	699	715	650	601	627
29	---	---	---	669	650	660	722	676	706	696	650	677
30	---	---	---	663	647	656	716	668	700	696	682	690
31	---	---	---	665	648	656	---	---	---	711	693	699
MONTH	936	424	658	---	---	---	729	526	671	837	511	699

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	710	382	483	691	647	673	---	---	---	450	309	382
2	617	501	561	677	635	660	581	545	566	514	450	485
3	646	617	640	643	595	618	570	546	561	539	514	526
4	644	418	578	602	560	579	591	565	577	557	539	545
5	576	150	493	572	541	559	597	561	583	584	557	568
6	490	191	377	566	549	554	602	558	584	591	564	579
7	528	355	471	581	565	577	588	547	573	584	546	569
8	556	528	544	597	286	549	584	545	569	574	479	554
9	571	556	564	473	239	370	587	562	577	568	531	550
10	578	568	571	556	473	519	593	569	582	555	453	496
11	582	568	575	575	556	566	594	572	584	469	454	457
12	586	567	579	586	570	576	596	569	585	500	469	482
13	610	579	596	591	568	582	599	579	589	521	500	507
14	592	561	571	590	556	577	608	586	599	531	513	522
15	566	530	553	588	548	573	608	591	601	543	527	536
16	580	533	558	582	551	569	612	597	608	547	536	542
17	543	529	533	580	558	570	615	606	611	555	544	551
18	574	539	550	---	---	---	619	601	609	563	546	556
19	606	574	582	---	---	---	601	351	435	587	560	574
20	618	597	610	---	---	---	420	374	395	634	580	616
21	634	609	621	---	---	---	454	420	436	633	605	619
22	649	629	635	---	---	---	464	451	458	610	596	604
23	674	649	661	---	---	---	480	461	471	614	596	607
24	674	649	664	---	---	---	489	465	479	611	576	595
25	665	631	654	---	---	---	496	473	486	620	584	612
26	669	639	658	---	---	---	526	481	494	635	620	625
27	673	648	662	---	---	---	645	328	426	638	623	632
28	677	600	655	---	---	---	407	350	382	642	623	634
29	656	624	641	---	---	---	442	407	421	634	612	625
30	682	641	663	---	---	---	467	442	451	621	599	613
31	---	---	---	---	---	---	495	276	412	---	---	---
MONTH	710	150	583	---	---	---	---	---	---	642	309	559
YEAR	1520	150	661									

03277130 MUD LICK CREEK AT HIGHWAY 42 NEAR BEAVERLICK, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	8.2	8.0	8.1
2	---	---	---	---	---	---	9.0	8.5	8.7	8.2	8.1	8.1
3	---	---	---	---	---	---	9.0	8.6	8.7	8.1	8.1	8.1
4	---	---	---	---	---	---	8.9	8.6	8.7	8.1	8.0	8.1
5	---	---	---	---	---	---	9.0	8.6	8.8	8.2	8.0	8.1
6	---	---	---	---	---	---	9.0	8.6	8.8	8.3	8.1	8.2
7	---	---	---	---	---	---	8.9	8.6	8.8	8.3	8.1	8.2
8	---	---	---	---	---	---	8.9	8.6	8.8	8.3	8.2	8.2
9	---	---	---	---	---	---	9.0	8.6	8.8	8.3	8.1	8.2
10	---	---	---	---	---	---	8.9	8.7	8.8	8.3	8.1	8.2
11	---	---	---	---	---	---	8.8	7.9	8.4	8.3	8.1	8.2
12	---	---	---	---	---	---	8.1	8.0	8.0	8.3	8.2	8.2
13	---	---	---	---	---	---	8.2	8.0	8.0	8.3	8.2	8.3
14	---	---	---	---	---	---	8.1	7.9	8.0	8.3	8.2	8.2
15	---	---	---	---	---	---	8.2	8.0	8.1	8.3	8.2	8.3
16	---	---	---	---	---	---	8.1	7.7	7.9	8.3	8.2	8.3
17	---	---	---	---	---	---	8.0	7.9	8.0	8.4	8.2	8.3
18	---	---	---	---	---	---	8.1	8.0	8.0	8.5	8.3	8.3
19	---	---	---	---	---	---	8.1	8.1	8.1	8.3	8.2	8.3
20	---	---	---	---	---	---	8.1	8.0	8.1	8.4	8.2	8.3
21	---	---	---	---	---	---	8.1	8.1	8.1	8.3	8.1	8.2
22	---	---	---	---	---	---	8.1	8.0	8.1	8.4	8.2	8.3
23	---	---	---	---	---	---	8.1	8.0	8.1	8.4	8.2	8.3
24	---	---	---	---	---	---	8.1	8.1	8.1	8.5	8.3	8.4
25	---	---	---	---	---	---	8.1	8.0	8.1	8.5	8.3	8.4
26	---	---	---	---	---	---	8.1	8.0	8.1	8.4	8.2	8.3
27	---	---	---	---	---	---	8.1	8.1	8.1	8.5	8.3	8.4
28	---	---	---	---	---	---	8.2	8.0	8.1	8.5	8.3	8.4
29	---	---	---	---	---	---	8.2	8.1	8.1	8.5	8.2	8.4
30	---	---	---	---	---	---	8.1	8.1	8.1	8.3	8.1	8.1
31	---	---	---	---	---	---	8.1	8.1	8.1	8.2	8.0	8.1
MONTH	---	---	---	---	---	---	---	---	---	8.5	8.0	8.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.4	8.1	8.2	8.6	8.3	8.5	8.6	8.1	8.4	8.5	7.5	8.0
2	8.4	8.2	8.3	8.6	8.3	8.4	8.7	8.1	8.4	8.4	7.5	7.9
3	8.3	8.2	8.3	8.6	8.2	8.4	8.7	8.0	8.3	8.4	7.4	7.9
4	8.3	8.1	8.2	8.4	8.0	8.2	8.8	8.0	8.4	8.4	7.4	7.9
5	8.3	8.1	8.2	8.4	8.0	8.2	8.7	8.0	8.4	8.2	7.4	7.8
6	8.4	8.1	8.2	8.4	8.2	8.3	8.5	7.9	8.2	8.2	7.3	7.7
7	8.4	8.2	8.3	8.5	8.2	8.3	8.6	7.8	8.2	8.1	7.3	7.6
8	8.5	8.2	8.3	8.5	8.2	8.4	8.5	7.8	8.2	7.9	7.4	7.7
9	8.4	7.9	8.2	8.5	8.2	8.4	8.5	7.7	8.1	8.2	7.5	7.8
10	8.2	7.9	8.0	8.4	8.3	8.4	8.4	7.7	8.0	8.3	7.4	7.8
11	8.3	8.0	8.1	8.5	8.2	8.3	8.5	7.7	8.1	8.4	7.4	7.8
12	8.4	8.0	8.2	8.4	8.2	8.3	8.6	7.7	8.2	8.0	7.4	7.7
13	8.5	8.2	8.3	8.5	8.1	8.3	8.5	7.7	8.1	8.2	7.6	7.9
14	8.5	8.2	8.3	8.5	8.2	8.3	8.5	7.7	8.1	8.2	7.6	7.8
15	8.5	8.2	8.3	8.4	8.1	8.3	8.2	7.6	7.9	8.2	7.5	7.8
16	8.4	8.1	8.3	8.4	8.1	8.2	8.4	7.7	8.0	7.8	7.4	7.6
17	8.5	8.1	8.3	8.3	8.1	8.2	8.3	7.9	8.1	7.8	7.4	7.6
18	8.5	8.2	8.4	8.4	8.1	8.2	8.5	8.0	8.3	7.8	7.6	7.7
19	8.4	8.2	8.3	8.4	8.1	8.3	8.5	8.0	8.3	7.7	7.6	7.7
20	8.5	8.1	8.3	8.4	8.1	8.2	8.3	7.9	8.1	7.9	7.7	7.8
21	8.5	8.1	8.4	---	---	---	8.3	7.7	8.0	7.9	7.7	7.8
22	8.5	8.2	8.4	8.4	8.1	8.3	8.3	7.6	8.0	8.1	7.7	7.9
23	8.5	8.2	8.4	8.4	8.1	8.2	8.3	7.5	7.9	8.1	7.9	8.0
24	8.6	8.2	8.4	8.4	8.1	8.2	8.4	7.5	8.0	8.1	7.8	8.0
25	8.3	8.0	8.1	8.4	8.1	8.3	8.4	7.7	8.1	8.1	7.9	8.0
26	8.7	8.1	8.4	8.5	8.1	8.3	8.5	7.8	8.1	8.2	7.9	8.0
27	8.6	8.2	8.4	8.5	8.2	8.3	8.4	7.7	8.1	8.2	7.9	8.0
28	8.7	8.3	8.5	8.6	8.2	8.4	8.4	7.6	8.0	8.2	8.0	8.1
29	---	---	---	8.6	8.2	8.4	8.4	7.6	8.0	8.3	8.0	8.1
30	---	---	---	8.6	8.2	8.4	8.5	7.6	8.0	8.3	7.9	8.1
31	---	---	---	8.6	8.1	8.3	---	---	---	8.4	8.0	8.2
MONTH	8.7	7.9	8.3	---	---	---	8.8	7.5	8.1	8.5	7.3	7.9

03277130 MUD LICK CREEK AT HIGHWAY 42 NEAR BEAVERLICK, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.2	8.0	8.1	8.8	8.0	8.4	---	---	---	8.2	7.9	8.0
2	8.3	8.1	8.2	8.8	7.9	8.3	8.4	8.0	8.2	8.3	8.1	8.2
3	8.4	8.2	8.3	8.7	8.1	8.4	8.4	7.9	8.1	8.4	8.1	8.2
4	8.3	8.0	8.2	8.5	7.9	8.2	8.4	8.0	8.2	8.4	8.1	8.2
5	8.3	7.9	8.2	8.4	7.8	8.1	8.5	8.0	8.2	8.4	8.1	8.2
6	8.2	7.7	8.0	8.5	7.9	8.2	8.6	7.9	8.2	8.4	8.0	8.2
7	8.3	8.0	8.2	8.4	8.0	8.1	8.5	7.9	8.2	8.4	7.9	8.1
8	8.4	8.2	8.3	8.2	7.9	8.0	8.5	7.8	8.1	8.4	7.8	8.1
9	8.3	8.2	8.2	8.2	7.9	8.1	8.4	7.8	8.1	8.2	7.7	8.0
10	8.3	8.2	8.2	8.4	8.1	8.2	8.4	7.8	8.0	8.1	7.8	8.0
11	8.4	8.1	8.2	8.5	8.2	8.3	8.3	7.8	8.1	8.4	7.9	8.1
12	8.4	8.1	8.2	8.5	8.2	8.3	8.4	7.8	8.1	8.5	7.9	8.2
13	8.4	8.1	8.2	8.6	8.1	8.3	8.4	7.8	8.1	8.6	8.0	8.2
14	8.4	8.0	8.2	8.7	8.0	8.3	8.4	7.9	8.1	8.5	7.9	8.2
15	8.4	8.0	8.1	8.5	7.9	8.2	8.4	7.9	8.2	8.4	7.9	8.2
16	8.2	7.9	8.1	8.5	7.9	8.2	8.3	7.9	8.1	8.4	7.9	8.2
17	8.4	7.9	8.1	8.4	7.8	8.1	8.3	7.9	8.1	8.4	8.0	8.2
18	8.4	7.9	8.1	---	---	---	8.3	7.9	8.1	8.2	7.9	8.0
19	8.4	7.8	8.1	---	---	---	8.1	7.8	7.9	8.1	7.9	8.0
20	8.3	7.7	8.0	---	---	---	8.2	7.8	7.9	8.3	8.0	8.2
21	8.2	7.7	7.9	---	---	---	8.5	7.8	8.1	8.4	7.9	8.1
22	8.2	7.8	8.0	---	---	---	8.5	7.8	8.1	8.4	7.8	8.1
23	8.3	7.9	8.1	---	---	---	8.5	7.7	8.1	8.4	7.8	8.1
24	8.4	7.9	8.2	---	---	---	8.5	7.7	8.1	8.2	7.7	7.9
25	8.6	7.9	8.2	---	---	---	8.4	7.7	8.1	8.3	8.0	8.1
26	8.5	7.9	8.2	---	---	---	8.1	7.7	7.9	8.5	8.0	8.2
27	8.5	7.9	8.2	---	---	---	8.0	7.7	7.9	8.5	8.0	8.2
28	8.5	7.9	8.1	---	---	---	8.3	7.7	7.9	8.5	8.0	8.2
29	8.6	7.7	8.1	---	---	---	8.5	7.7	8.0	8.4	7.9	8.2
30	8.8	8.1	8.4	---	---	---	8.5	7.8	8.1	8.4	7.9	8.1
31	---	---	---	---	---	---	8.1	7.7	7.8	---	---	---
MONTH	8.8	7.7	8.2	---	---	---	---	---	---	8.6	7.7	8.1
YEAR	9.0	7.3	8.2									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	.5	.5	.5
2	---	---	---	---	---	---	3.9	2.2	3.3	.5	.5	.5
3	---	---	---	---	---	---	2.9	.5	1.7	.5	.4	.5
4	---	---	---	---	---	---	.7	.0	.3	.5	.4	.5
5	---	---	---	---	---	---	2.3	.2	1.0	.6	.4	.5
6	---	---	---	---	---	---	.8	.0	.2	.6	.4	.5
7	---	---	---	---	---	---	1.0	.0	.4	.6	.1	.4
8	---	---	---	---	---	---	1.8	.2	.9	.6	.1	.4
9	---	---	---	---	---	---	1.0	.0	.3	.6	.1	.4
10	---	---	---	---	---	---	2.1	.2	1.0	.6	.1	.4
11	---	---	---	---	---	---	4.9	1.7	2.7	.6	.1	.4
12	---	---	---	---	---	---	2.8	1.0	1.7	.6	.1	.4
13	---	---	---	---	---	---	1.0	.0	.2	.6	.1	.4
14	---	---	---	---	---	---	.9	.1	.6	.6	.0	.4
15	---	---	---	---	---	---	2.2	.9	1.5	.6	.0	.4
16	---	---	---	---	---	---	6.8	2.2	5.1	.6	.0	.4
17	---	---	---	---	---	---	6.6	.0	2.9	.6	.0	.4
18	---	---	---	---	---	---	.6	.4	.5	.8	.1	.5
19	---	---	---	---	---	---	.5	.4	.4	.6	.0	.2
20	---	---	---	---	---	---	.6	.4	.5	.6	.0	.5
21	---	---	---	---	---	---	.6	.4	.4	.6	.4	.5
22	---	---	---	---	---	---	.6	.4	.5	.6	.4	.5
23	---	---	---	---	---	---	.6	.4	.5	.6	.4	.5
24	---	---	---	---	---	---	.6	.4	.5	.6	.1	.4
25	---	---	---	---	---	---	.6	.4	.5	.6	.1	.4
26	---	---	---	---	---	---	.6	.4	.5	.5	.4	.4
27	---	---	---	---	---	---	.5	.4	.4	.6	.1	.4
28	---	---	---	---	---	---	.6	.4	.5	.6	.4	.5
29	---	---	---	---	---	---	.5	.4	.5	.7	.1	.4
30	---	---	---	---	---	---	.5	.4	.5	4.0	.0	1.2
31	---	---	---	---	---	---	.5	.4	.5	4.1	3.5	3.8
MONTH	---	---	---	---	---	---	---	---	---	4.1	.0	.6

03277130 MUD LICK CREEK AT HIGHWAY 42 NEAR BEAVERLICK, KY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.6	3.0	3.7	4.9	2.1	3.8	12.7	8.4	10.5	25.3	17.1	21.1
2	3.0	.1	1.8	6.6	4.3	5.3	12.7	7.3	10.0	24.7	18.2	21.7
3	.8	.0	.4	8.4	5.6	6.9	14.8	10.3	12.1	25.2	18.7	21.9
4	1.7	.0	.8	7.4	5.6	6.5	16.9	10.1	13.1	26.7	20.1	23.3
5	1.6	1.0	1.3	5.6	3.1	4.6	17.7	10.0	13.9	25.2	19.4	22.5
6	2.8	1.2	1.8	3.2	1.6	2.5	18.0	15.0	16.0	25.1	20.0	22.5
7	3.8	.3	2.1	6.1	2.2	3.8	21.4	14.5	17.6	24.4	20.8	22.4
8	6.3	2.0	4.1	6.4	2.4	4.4	22.7	18.2	20.0	22.5	19.3	20.6
9	10.1	5.9	7.8	5.7	2.9	4.2	23.5	18.3	20.8	24.1	17.2	20.5
10	8.4	3.6	5.9	6.3	1.2	3.7	21.5	19.4	20.6	25.1	17.9	21.2
11	3.6	1.2	2.4	8.5	3.1	5.8	24.2	18.7	21.4	26.6	18.5	22.1
12	4.0	1.5	2.6	6.9	5.4	6.4	24.5	19.8	21.8	22.4	19.3	21.1
13	5.8	4.0	4.9	9.0	6.4	7.8	24.0	18.1	20.7	22.2	16.0	19.0
14	8.5	5.8	7.0	11.6	6.5	8.8	22.0	15.4	18.8	22.1	15.0	18.4
15	8.6	7.7	8.3	9.9	7.6	8.6	19.4	15.3	17.3	24.9	16.9	20.6
16	7.7	5.8	6.9	9.4	8.1	8.6	18.0	13.0	15.1	22.9	19.3	21.5
17	5.8	2.2	3.9	8.2	5.5	6.9	13.7	9.8	11.3	23.2	19.5	20.7
18	3.0	.2	1.7	9.8	4.0	6.7	15.2	7.7	11.1	23.0	19.5	20.9
19	4.9	.8	2.7	9.2	4.2	6.8	16.8	8.8	12.6	20.9	19.2	20.0
20	6.2	3.4	4.7	8.0	6.0	7.0	14.0	12.4	13.2	21.9	18.2	20.1
21	6.6	4.4	5.4	---	---	---	19.4	13.7	16.1	22.7	20.1	21.1
22	4.5	2.3	3.0	11.2	5.5	8.3	23.5	17.1	19.8	21.4	18.8	20.3
23	5.7	1.9	3.5	12.8	6.3	9.4	24.3	18.1	20.9	18.8	16.4	17.3
24	8.2	4.0	5.6	12.3	7.9	9.7	22.0	17.1	19.5	17.5	14.5	16.2
25	11.1	8.1	9.5	10.3	5.6	7.6	20.8	13.3	16.9	17.4	14.7	16.0
26	8.8	6.1	7.5	6.8	3.9	5.5	21.6	12.5	16.7	19.3	14.9	16.8
27	7.1	5.0	6.1	8.8	2.7	5.5	21.9	13.4	17.6	16.9	15.2	16.0
28	6.9	4.4	5.6	9.6	2.6	6.3	21.3	14.8	18.1	19.4	14.3	16.7
29	---	---	---	9.4	6.6	8.0	21.1	13.0	17.0	22.0	15.9	18.8
30	---	---	---	10.8	6.0	8.5	23.6	14.0	18.8	21.5	17.1	19.3
31	---	---	---	12.2	8.3	10.1	---	---	---	18.7	16.0	17.1
MONTH	11.1	.0	4.3	---	---	---	24.5	7.3	16.6	26.7	14.3	19.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.3	15.8	16.5	29.6	23.7	26.3	---	---	---	23.1	21.2	22.1
2	17.0	14.4	15.6	27.1	21.3	24.1	29.0	25.2	27.1	22.8	19.9	21.6
3	17.0	14.7	16.0	25.2	20.0	22.6	27.8	25.7	26.7	23.3	20.4	21.8
4	16.4	15.6	16.0	26.0	21.0	22.9	28.9	24.9	26.7	25.4	21.4	23.2
5	18.6	15.7	16.9	27.8	21.6	24.5	28.8	23.6	26.3	26.4	22.0	24.0
6	19.4	16.9	18.0	27.2	19.9	23.3	30.5	24.4	27.2	26.3	20.5	23.2
7	19.1	17.3	18.0	24.8	20.6	22.3	31.2	25.8	28.2	27.2	22.5	24.6
8	21.0	17.2	19.0	26.3	21.8	23.6	31.9	25.6	28.5	28.6	23.1	25.3
9	21.2	17.2	19.2	24.8	21.3	22.8	30.9	26.0	28.2	25.9	22.8	24.4
10	22.2	17.7	20.0	27.8	23.1	25.2	29.5	25.9	27.5	24.0	21.3	22.5
11	24.2	18.8	21.3	28.4	24.1	25.9	28.9	25.2	27.1	23.3	19.1	21.1
12	26.3	20.8	23.5	26.1	21.3	23.4	30.9	25.1	27.6	23.2	18.3	20.8
13	26.4	22.2	24.3	27.1	19.9	23.2	29.8	23.2	26.4	24.5	18.6	21.3
14	28.6	22.8	25.5	27.7	19.6	23.5	28.8	23.0	25.8	23.3	19.0	20.8
15	29.2	23.5	25.8	28.0	19.9	23.8	27.5	21.5	24.8	21.5	15.9	18.6
16	26.4	22.7	24.5	28.6	20.7	24.4	25.7	22.4	24.4	21.0	15.1	17.9
17	27.8	21.5	24.4	29.4	22.9	26.0	27.8	21.5	24.6	22.0	15.2	18.5
18	28.1	20.7	24.2	---	---	---	27.4	21.2	24.1	20.9	17.8	19.1
19	30.0	21.0	25.2	---	---	---	24.7	20.1	21.8	19.8	18.6	19.1
20	26.5	23.5	25.0	---	---	---	23.4	20.3	21.6	20.3	17.4	18.8
21	26.3	22.0	23.6	---	---	---	25.7	19.5	22.2	20.9	16.8	18.6
22	23.0	20.9	22.1	---	---	---	25.9	20.6	22.7	21.8	17.2	19.3
23	23.9	19.5	21.3	---	---	---	26.3	22.3	24.2	22.7	16.3	19.3
24	25.6	18.6	21.9	---	---	---	28.3	22.4	25.1	20.4	16.3	18.3
25	27.1	19.4	22.8	---	---	---	27.8	23.0	25.2	16.3	13.7	14.8
26	27.4	20.4	23.6	---	---	---	25.5	23.3	24.1	16.3	11.9	13.8
27	28.5	21.7	25.1	---	---	---	24.5	22.6	23.6	17.5	11.5	14.2
28	29.8	22.3	25.6	---	---	---	26.9	22.0	24.2	15.7	11.2	13.5
29	26.7	22.4	24.8	---	---	---	27.7	23.1	24.9	16.3	10.8	13.5
30	29.2	23.0	25.8	---	---	---	28.5	23.1	25.5	17.0	11.0	14.0
31	---	---	---	---	---	---	25.7	22.8	23.9	---	---	---
MONTH	30.0	14.4	21.9	---	---	---	---	---	---	28.6	10.8	19.6
YEAR	31.9	.0	13.6									

03277130 MUD LICK CREEK AT HIGHWAY 42 NEAR BEAVERLICK, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	14.4	13.9	14.1
2	---	---	---	---	---	---	13.5	9.1	10.7	14.7	14.0	14.2
3	---	---	---	---	---	---	13.3	9.6	11.0	14.5	13.8	14.1
4	---	---	---	---	---	---	12.7	10.1	11.1	14.4	13.6	13.9
5	---	---	---	---	---	---	14.0	9.8	11.5	14.3	13.5	13.8
6	---	---	---	---	---	---	13.6	10.2	11.5	14.5	13.5	13.9
7	---	---	---	---	---	---	12.8	9.9	11.1	14.3	13.4	13.8
8	---	---	---	---	---	---	12.3	9.4	10.6	14.3	13.3	13.7
9	---	---	---	---	---	---	13.2	10.0	11.2	14.6	13.4	13.8
10	---	---	---	---	---	---	12.6	9.8	10.9	14.6	13.3	13.8
11	---	---	---	---	---	---	14.1	8.8	10.9	14.4	13.1	13.6
12	---	---	---	---	---	---	13.3	12.6	13.1	14.4	12.9	13.5
13	---	---	---	---	---	---	14.9	13.3	13.9	14.8	13.0	13.8
14	---	---	---	---	---	---	14.2	13.4	13.8	14.2	13.1	13.5
15	---	---	---	---	---	---	14.8	13.0	13.8	14.3	13.1	13.6
16	---	---	---	---	---	---	13.9	12.0	12.7	14.6	13.2	13.7
17	---	---	---	---	---	---	16.6	13.1	15.0	15.2	13.2	13.8
18	---	---	---	---	---	---	14.5	13.5	14.0	15.0	13.0	13.7
19	---	---	---	---	---	---	14.4	13.9	14.2	13.9	12.7	13.2
20	---	---	---	---	---	---	14.2	13.7	14.0	14.7	13.0	13.7
21	---	---	---	---	---	---	14.1	13.5	13.7	15.4	13.3	14.1
22	---	---	---	---	---	---	14.3	13.9	14.1	15.6	13.0	14.0
23	---	---	---	---	---	---	14.4	13.9	14.1	15.7	13.0	14.1
24	---	---	---	---	---	---	14.5	14.0	14.2	15.8	12.9	14.0
25	---	---	---	---	---	---	14.7	14.3	14.4	16.1	12.9	14.1
26	---	---	---	---	---	---	14.6	13.9	14.3	15.1	13.0	13.8
27	---	---	---	---	---	---	14.1	13.8	13.9	16.0	12.7	14.0
28	---	---	---	---	---	---	14.5	13.9	14.1	16.0	12.9	14.2
29	---	---	---	---	---	---	14.3	13.8	14.0	16.2	12.5	13.8
30	---	---	---	---	---	---	14.2	13.7	13.9	13.5	11.4	12.9
31	---	---	---	---	---	---	14.3	13.9	14.0	12.8	11.5	12.2
MONTH	---	---	---	---	---	---	---	---	---	16.2	11.4	13.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	14.1	12.1	12.9	15.3	11.2	12.8	14.6	9.0	10.8	11.0	3.0	6.4
2	14.8	12.1	13.4	14.5	10.6	12.1	15.1	9.5	11.8	9.9	2.4	5.7
3	15.3	13.4	14.1	14.3	9.8	11.6	15.1	8.6	10.9	10.5	2.1	6.0
4	14.9	12.6	13.6	11.6	9.5	10.6	16.1	8.4	11.7	12.2	2.2	6.4
5	14.0	12.2	12.8	12.6	11.1	11.8	16.0	8.1	11.5	10.5	2.7	6.2
6	15.0	12.3	13.3	13.9	11.8	12.7	13.1	6.9	9.1	8.8	2.4	5.5
7	15.6	12.1	13.6	14.1	11.3	12.6	12.6	6.4	9.0	8.8	2.3	5.0
8	15.3	10.9	12.9	14.3	11.1	12.5	---	---	---	7.8	4.5	6.3
9	14.1	9.6	11.1	14.4	11.0	12.6	14.0	5.0	8.7	10.3	5.0	7.1
10	12.6	11.0	11.9	14.7	11.2	12.8	12.1	5.2	7.9	11.2	4.6	7.3
11	14.7	12.0	13.2	14.3	10.4	12.2	13.5	5.1	8.3	11.3	4.2	6.9
12	14.2	11.5	12.8	12.7	10.0	11.0	12.8	4.6	7.9	8.7	3.8	6.1
13	13.5	10.8	11.9	13.0	9.6	11.1	13.1	4.5	8.1	10.5	5.4	7.6
14	12.6	9.8	11.0	13.4	9.3	11.0	13.2	4.6	8.0	10.9	5.3	7.4
15	12.0	9.5	10.5	12.4	9.1	10.2	9.8	4.3	6.3	9.8	4.6	6.8
16	11.8	10.0	10.8	11.3	8.9	9.8	12.2	5.5	8.2	7.1	3.4	5.1
17	13.8	11.3	12.4	10.7	8.6	9.6	11.1	6.1	8.4	8.8	3.0	5.7
18	15.3	12.4	13.7	11.9	9.0	10.3	13.1	7.4	9.7	8.1	6.2	7.0
19	15.1	11.8	13.4	11.6	8.8	10.1	12.6	6.6	9.1	7.4	6.9	7.2
20	15.0	11.4	12.8	10.9	8.5	9.4	9.4	5.5	6.9	8.1	6.1	7.3
21	15.5	11.1	13.0	---	---	---	9.8	4.6	6.9	7.4	5.8	6.4
22	15.8	11.7	13.4	10.8	7.9	9.2	9.8	3.5	6.3	7.4	5.8	6.6
23	16.2	12.3	13.9	10.6	7.3	8.8	9.7	2.9	5.6	8.1	6.4	7.1
24	15.8	10.9	13.1	10.4	7.2	8.4	13.4	2.8	7.0	8.4	6.5	7.4
25	11.4	9.8	10.7	12.0	7.9	9.8	13.9	4.8	8.6	8.2	7.0	7.6
26	14.2	10.3	11.9	12.2	9.0	10.7	13.4	5.2	8.7	9.4	7.0	8.0
27	14.1	10.3	11.9	12.7	9.8	11.1	12.4	4.9	8.0	8.5	7.1	7.7
28	14.8	10.5	12.4	14.2	9.8	11.6	11.8	3.9	7.5	8.9	6.6	7.9
29	---	---	---	13.9	10.1	11.7	11.7	4.0	7.4	9.1	6.3	7.7
30	---	---	---	14.6	9.8	11.7	11.7	3.5	7.2	9.9	6.2	7.8
31	---	---	---	14.7	9.3	11.2	---	---	---	10.3	6.3	8.0
MONTH	16.2	9.5	12.6	---	---	---	---	---	---	12.2	2.1	6.8

03277130 MUD LICK CREEK AT HIGHWAY 42 NEAR BEAVERLICK, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.5	6.7	7.6	11.3	3.2	6.9	---	---	---	8.2	7.4	7.9
2	7.9	6.9	7.4	10.5	3.9	6.8	11.0	5.8	8.1	9.2	7.2	8.1
3	7.9	6.7	7.3	9.4	4.9	6.6	9.7	5.2	6.9	9.6	6.8	8.0
4	8.7	6.7	7.7	7.8	4.0	5.6	9.8	5.2	7.2	10.0	6.4	7.7
5	9.7	7.7	8.5	8.0	4.2	5.8	10.7	5.0	7.4	10.4	6.0	7.7
6	9.2	8.6	9.0	9.5	5.0	7.0	11.6	4.6	7.5	11.2	6.0	8.1
7	9.3	8.5	9.0	8.6	5.3	6.6	10.8	4.2	6.9	---	---	---
8	9.3	7.7	8.7	8.8	4.7	6.1	9.7	3.8	6.3	10.7	5.0	7.1
9	9.1	7.3	8.2	8.8	6.9	8.0	8.0	3.4	5.3	7.7	4.7	6.2
10	9.3	6.9	8.1	7.9	6.2	7.2	7.7	3.0	5.0	---	---	---
11	9.4	6.1	7.7	8.4	6.1	7.1	7.3	3.1	5.0	---	---	---
12	9.4	5.5	7.2	10.8	6.3	8.1	8.4	3.3	5.5	10.7	6.4	8.0
13	9.1	5.2	6.8	12.1	6.5	8.9	9.9	3.6	6.2	---	---	---
14	9.6	5.2	7.0	12.5	6.1	9.0	9.4	4.2	6.8	11.0	5.7	7.8
15	8.5	5.0	6.3	12.2	5.6	8.6	8.9	4.4	6.7	10.8	6.0	8.1
16	7.9	5.2	6.5	10.5	5.1	7.7	8.0	4.2	6.2	10.2	6.2	8.0
17	8.8	5.1	6.8	9.7	4.2	6.7	8.6	3.9	6.2	9.5	6.1	7.7
18	9.9	5.0	7.1	---	---	---	8.1	4.3	5.9	8.0	5.5	6.5
19	11.2	4.6	7.4	---	---	---	7.6	4.7	6.2	7.0	5.6	6.4
20	10.4	4.3	6.9	---	---	---	6.9	5.5	6.0	8.3	6.3	7.1
21	10.1	4.6	6.5	---	---	---	9.1	5.4	7.0	9.6	6.2	7.6
22	9.2	5.0	6.7	---	---	---	10.1	5.3	7.2	10.2	5.6	7.6
23	9.7	5.7	7.4	---	---	---	10.5	4.9	7.5	10.7	5.7	7.9
24	10.1	5.7	7.6	---	---	---	10.3	4.7	7.5	8.7	5.9	6.9
25	10.0	5.0	7.3	---	---	---	9.9	4.6	7.0	10.2	7.1	8.2
26	9.8	4.5	7.0	---	---	---	7.8	4.4	5.9	11.9	7.5	9.2
27	9.6	3.9	6.7	---	---	---	7.3	5.5	6.3	12.3	7.6	9.6
28	8.7	3.2	5.5	---	---	---	7.5	5.2	6.3	13.4	7.5	10.1
29	5.7	2.6	4.1	---	---	---	8.4	5.1	6.3	13.0	8.3	10.5
30	7.5	3.2	4.9	---	---	---	8.5	5.2	6.5	12.5	8.1	10.2
31	---	---	---	---	---	---	7.9	4.6	6.2	---	---	---
MONTH	11.2	2.6	7.2	---	---	---	---	---	---	---	---	---
YEAR	16.6	2.1	9.6									

TURBIDITY (NTU), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	17	16	17
2	---	---	---	---	---	---	16	12	13	18	16	17
3	---	---	---	---	---	---	14	12	13	20	16	17
4	---	---	---	---	---	---	14	12	13	18	17	17
5	---	---	---	---	---	---	14	12	13	18	16	17
6	---	---	---	---	---	---	13	12	13	18	17	17
7	---	---	---	---	---	---	14	12	12	18	17	18
8	---	---	---	---	---	---	13	11	12	30	17	18
9	---	---	---	---	---	---	13	11	12	19	17	18
10	---	---	---	---	---	---	13	11	12	18	17	17
11	---	---	---	---	---	---	480	12	66	18	16	17
12	---	---	---	---	---	---	590	160	380	17	16	17
13	---	---	---	---	---	---	240	63	120	21	16	18
14	---	---	---	---	---	---	110	55	71	20	16	17
15	---	---	---	---	---	---	59	34	42	33	18	22
16	---	---	---	---	---	---	>1000	33	---	24	19	22
17	---	---	---	---	---	---	>1000	340	---	62	17	21
18	---	---	---	---	---	---	>1000	42	---	73	17	24
19	---	---	---	---	---	---	47	31	38	34	20	28
20	---	---	---	---	---	---	52	26	31	34	25	29
21	---	---	---	---	---	---	32	23	26	31	22	25
22	---	---	---	---	---	---	35	23	27	24	19	21
23	---	---	---	---	---	---	27	21	24	20	18	20
24	---	---	---	---	---	---	28	19	21	20	18	19
25	---	---	---	---	---	---	22	18	20	21	19	20
26	---	---	---	---	---	---	21	18	19	22	20	21
27	---	---	---	---	---	---	19	17	18	23	21	21
28	---	---	---	---	---	---	19	17	18	23	21	22
29	---	---	---	---	---	---	55	18	21	590	21	73
30	---	---	---	---	---	---	81	16	20	>1000	210	---
31	---	---	---	---	---	---	19	16	17	820	51	270
MONTH	---	---	---	---	---	---	>1000	11	---	>1000	16	30

03277130 MUD LICK CREEK AT HIGHWAY 42 NEAR BEAVERLICK, KY--Continued

TURBIDITY (NTU), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	52	28	38	17	10	12	9.0	2.0	5.1	150	3.0	31
2	29	20	25	21	10	12	10	2.0	4.3	400	32	92
3	21	18	19	21	10	12	---	---	---	470	1.0	76
4	19	15	16	500	11	150	---	---	---	---	---	---
5	17	14	15	310	39	140	---	---	---	---	---	---
6	16	12	14	43	22	33	---	---	---	---	---	---
7	14	12	13	40	20	24	---	---	---	---	---	---
8	15	12	13	21	16	19	---	---	---	---	---	---
9	980	14	130	18	15	16	---	---	---	26	9.0	18
10	>1000	65	---	16	12	14	---	---	---	28	10	19
11	73	27	45	16	13	14	10	3.0	5.6	37	2.0	14
12	42	21	29	15	14	14	11	1.0	5.5	300	14	66
13	40	28	33	19	13	15	16	1.0	6.0	270	12	17
14	30	26	28	24	13	17	---	---	---	33	18	23
15	37	29	31	18	12	15	---	---	---	39	18	24
16	310	30	100	20	13	15	---	---	---	320	14	57
17	360	42	110	22	15	17	---	---	---	630	11	120
18	43	26	34	16	13	15	---	---	---	770	110	250
19	29	22	25	18	14	15	---	---	---	980	420	750
20	26	20	23	16	13	15	---	---	---	590	120	230
21	27	17	21	21	14	16	76	27	53	210	100	120
22	20	14	17	21	14	17	370	26	59	450	100	190
23	15	10	13	23	13	16	---	---	---	390	120	150
24	14	9.0	12	23	14	16	---	---	---	390	130	240
25	780	12	270	22	14	16	---	---	---	380	180	270
26	170	32	71	18	14	16	84	.3	13	350	80	170
27	33	18	24	16	12	14	---	---	---	370	97	200
28	19	14	16	16	7.7	13	---	---	---	390	130	220
29	---	---	---	10	5.0	6.9	410	1.0	82	300	55	92
30	---	---	---	8.0	4.0	5.6	420	3.0	150	320	43	83
31	---	---	---	9.0	2.0	4.5	---	---	---	300	41	72
MONTH	>1000	9.0	---	500	2.0	23	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	960	53	620	120	9.6	89	---	---	---	850	71	280
2	300	140	190	110	59	80	65	31	44	97	15	39
3	180	120	140	110	62	78	61	34	42	32	4.0	15
4	850	83	300	110	60	74	64	35	46	---	---	---
5	>1000	150	---	120	62	73	57	33	41	---	---	---
6	>1000	210	---	93	75	82	52	30	39	---	---	---
7	---	---	---	110	79	89	52	30	38	---	---	---
8	90	53	68	>1000	80	---	49	33	39	---	---	---
9	120	44	56	>1000	210	---	49	36	41	---	---	---
10	76	30	40	210	110	150	54	38	43	---	---	---
11	43	25	35	140	97	120	58	42	47	---	---	---
12	45	21	32	120	14	68	55	42	47	74	21	47
13	92	18	39	28	7.4	17	63	39	47	---	---	---
14	67	4.0	22	22	5.8	12	49	33	39	36	5.0	16
15	49	2.0	16	22	7.1	13	46	26	33	24	2.0	9.0
16	120	34	90	23	12	18	38	21	29	21	1.0	8.6
17	94	17	49	34	16	26	33	15	23	29	1.0	8.5
18	50	11	25	---	---	---	28	9.0	18	41	7.0	17
19	43	12	24	---	---	---	990	17	630	57	15	39
20	39	14	27	---	---	---	440	98	210	65	18	37
21	58	21	31	---	---	---	110	33	60	28	12	20
22	59	32	44	---	---	---	41	1.0	23	37	10	20
23	57	30	45	---	---	---	---	---	---	22	11	16
24	53	32	43	---	---	---	---	---	---	92	14	46
25	54	38	44	---	---	---	---	---	---	48	31	39
26	98	45	53	---	---	---	---	---	---	42	24	30
27	72	51	57	---	---	---	---	---	---	40	15	26
28	110	6.4	74	---	---	---	420	41	160	31	14	25
29	140	79	110	---	---	---	---	---	---	31	22	25
30	150	77	97	---	---	---	---	---	---	31	14	26
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	>1000	2.0	---	>1000	---	---	---	---	---	---	---	---
YEAR	>1000	.3	58									

> Actual value is known to be greater than the value shown

03277200 OHIO RIVER AT MARKLAND DAM NEAR WARSAW, KY

LOCATION.--Lat 38°46'29", long 84°57'52", Gallatin County, Hydrologic Unit 05090203, at left end of Markland Dam, 0.4 mi upstream from Stephens Creek, 3.4 mi west of Warsaw, and at mile 531.5.

DRAINAGE AREA.--83,170 mi^2, approximately.

PERIOD OF RECORD.--May 1970 to current year.

REVISED RECORDS.--WDR KY-88-1: 1987.

GAGE.--Water-stage recorder in tailwater gage. Datum of headwater gage 0.5 mi upstream is 443 ft Ohio River datum. Datum of tailwater gage 0.4 mi downstream is 35 ft lower. Records of Markland Dam gate operations, headwater gage readings, and turbine flow are furnished by U.S. Army Corps of Engineers.

REMARKS.--Records fair except for those below 20,000 ft^3/s, which are poor. Daily discharge computed from head, gate openings, turbine flow, and tailwater rating. Flow regulated by Ohio River system of locks, dams, and reservoirs upstream from station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 26, 1937, reached a stage of 76.1 ft (tailwater gage).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

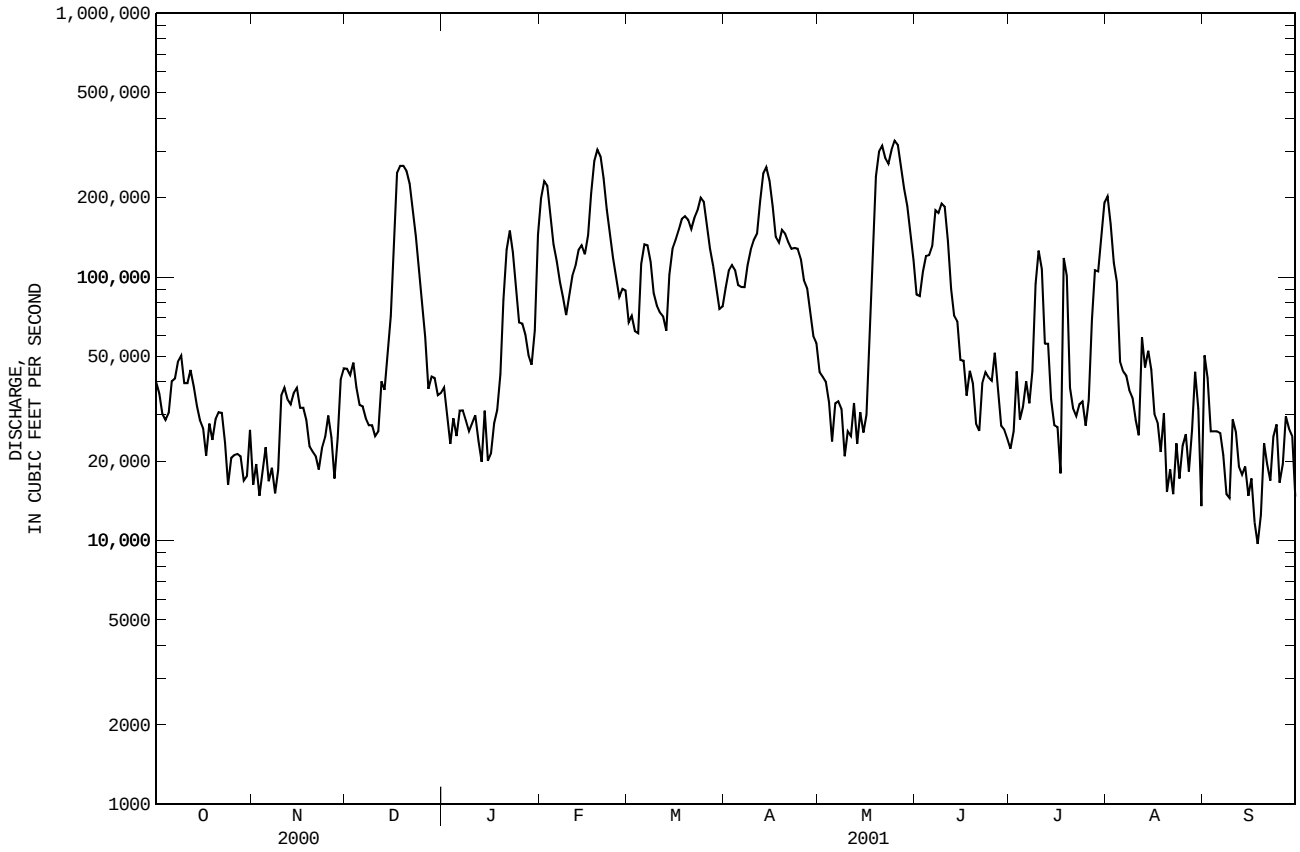
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40000	16300	44900	38100	199000	67300	91000	43600	85900	22300	202000	50400
2	36200	19500	42500	30000	231000	71200	106000	41800	84600	26000	159000	41300
3	30300	14800	47300	23300	222000	62300	111000	40000	105000	43800	113000	26000
4	28700	18300	38100	29100	169000	61200	106000	33400	120000	28800	95700	26000
5	30500	22600	32700	24900	133000	112000	93200	23800	121000	32200	47800	26000
6	40200	16800	32300	31100	115000	133000	91700	33200	131000	40200	43900	25600
7	41200	18900	29100	31200	95900	132000	91600	33800	179000	33200	42200	21100
8	47800	15100	27400	28500	83900	114000	111000	31600	175000	44000	37200	15000
9	50300	18500	27400	26000	71700	86900	127000	20900	190000	94300	34800	14500
10	39600	35600	24900	27900	85100	78000	138000	26000	185000	126000	28600	28800
11	39600	38000	26000	29900	101000	73400	146000	24900	137000	107000	25100	25800
12	44400	34300	40200	23900	110000	70900	193000	33300	90200	55900	59000	19100
13	38600	32900	37300	19900	127000	62600	247000	23300	71300	55800	45400	17800
14	32500	36400	53000	31100	132000	102000	261000	30700	67800	34300	52500	19100
15	28700	38000	71200	20100	122000	128000	232000	25700	48500	27400	44500	14800
16	26700	31900	144000	21400	144000	138000	185000	30000	48100	27000	30200	17200
17	21000	31900	248000	27900	207000	151000	142000	72200	35500	18000	28000	11700
18	27800	28700	264000	31300	276000	166000	135000	145000	44100	118000	21700	9710
19	24100	22800	264000	42800	304000	170000	151000	241000	39500	101000	30400	12500
20	28900	21800	253000	82200	287000	165000	146000	300000	27800	38000	15300	23400
21	30700	20900	226000	127000	237000	152000	136000	315000	26100	31800	18600	19500
22	30500	18600	177000	150000	180000	168000	128000	282000	39500	29700	15000	16900
23	23500	22400	142000	124000	145000	179000	129000	269000	43500	32900	23400	24800
24	16300	24700	110000	90100	118000	200000	128000	304000	41600	33700	17200	27600
25	20600	29800	81500	67200	100000	193000	117000	329000	40400	27300	22900	16600
26	21100	24600	59200	66600	84000	158000	97400	317000	51600	34100	25300	19500
27	21300	17200	37700	60500	90200	128000	90800	261000	38000	68600	18300	29600
28	20900	24500	41900	50500	88900	110000	74200	217000	27300	106000	26400	26600
29	16900	40800	41400	46500	---	90900	59800	186000	26400	105000	43700	24900
30	17600	45000	35600	62700	---	75600	56200	150000	24300	140000	31600	14700
31	26300	---	36300	145000	---	77300	---	116000	---	191000	13500	---
TOTAL	942800	781600	2735900	1610700	4258700	3676600	3920900	4000200	2345000	1873300	1412200	666510
MEAN	30410	26050	88250	51960	152100	118600	130700	129000	78170	60430	45550	22220
MAX	50300	45000	264000	150000	304000	200000	261000	329000	190000	191000	202000	50400
MIN	16300	14800	24900	19900	71700	61200	56200	20900	24300	18000	13500	9710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2001, BY WATER YEAR (WY)

MEAN	47220	82570	138000	146500	177200	207800	177800	136900	90350	58450	44700	38560
MAX	144100	230600	288700	289900	291200	338500	292200	370100	219100	109500	146200	143800
(WY)	1980	1986	1973	1974	1975	1997	1972	1996	1981	1972	1980	1979
MIN	13910	16810	29220	34060	77100	98440	61160	43510	15030	13890	13060	9033
(WY)	1992	1999	1999	1977	1992	1990	1986	1976	1999	1999	1988	1999

03277200 OHIO RIVER AT MARKLAND DAM NEAR WARSAW, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1970 - 2001	
ANNUAL TOTAL	29666500		28224410			
ANNUAL MEAN	81060		77330		112100	
HIGHEST ANNUAL MEAN					157300	1979
LOWEST ANNUAL MEAN					60450	1988
HIGHEST DAILY MEAN	431000	Feb 22	329000	May 25	579000	Mar 6 1997
LOWEST DAILY MEAN	14100	Jul 26	9710	Sep 18	4000	Jul 12 1999
ANNUAL SEVEN-DAY MINIMUM	17900	Nov 3	14700	Sep 13	7310	Jul 1 1988
MAXIMUM PEAK FLOW			334000	May 25	582000	Mar 6 1997
MAXIMUM PEAK STAGE			38.16	May 25	60.72	Mar 6 1997
10 PERCENT EXCEEDS	184000		179000		256000	
50 PERCENT EXCEEDS	45200		42500		77800	
90 PERCENT EXCEEDS	21000		20000		20200	



03277300 NORTH FORK KENTUCKY RIVER AT WHITESBURG, KY

LOCATION.--Lat 37°07'03", long 82°49'29", Letcher County, Hydrologic Unit 05100201, on downstream side of bridge on State Highway 15 at Whitesburg, 0.6 mile downstream from Solomon Branch, and at mile 405.4

DRAINAGE AREA.--66.4 mi^2.

PERIOD OF RECORD.--October 1952 to September 1954 and October 1957 to September 1975 (crest-stage partial-record), October 1987 to September 1998 (gage heights only), October 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1127.924 ft above NGVD of 1929. Prior to October 1, 1998, crest-stage gage and recording gage at same site and datum 1.0 ft higher.

REMARKS.--Records fair except for those estimated, which are poor. Small diversions by City of Whitesburg waterworks.

COOPERATION.--Kentucky River Authority and U.S. Army Corps of Engineers, Louisville District.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 17	0030	*2,120	*6.22	May 22	1745	1,610	5.29

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	8.8	8.7	e7.5	21	91	121	46	56	26	37	36
2	9.5	8.6	8.1	e7.0	19	83	117	44	53	39	30	28
3	9.1	8.7	8.6	e6.8	17	77	158	44	54	29	25	23
4	9.2	9.9	9.0	e6.6	18	100	167	40	83	65	55	21
5	8.7	9.2	8.1	e6.4	17	166	146	36	95	95	36	19
6	9.0	9.0	8.6	e6.2	17	150	129	47	82	56	29	17
7	9.4	9.8	7.9	e6.0	16	125	115	46	162	39	24	15
8	7.9	11	7.2	e5.9	15	106	104	38	146	47	21	14
9	7.9	20	7.6	e5.8	15	98	95	36	102	69	20	13
10	8.9	30	7.7	e5.7	32	88	88	32	75	47	24	13
11	11	16	8.0	e5.5	24	82	80	30	60	38	25	14
12	10	12	7.6	e5.3	22	75	76	28	54	30	89	12
13	9.4	11	8.2	e5.2	21	79	90	26	48	26	77	12
14	9.1	11	52	e5.1	38	71	78	24	55	23	45	11
15	8.8	9.5	25	e5.0	389	95	73	22	48	20	34	10
16	8.8	9.0	20	e4.9	494	110	70	21	38	18	26	9.7
17	9.2	10	e110	e4.8	900	100	64	135	33	17	21	9.4
18	15	8.5	e50	e10	219	90	65	65	29	17	18	9.4
19	12	8.0	e38	427	144	82	60	49	27	16	56	9.2
20	8.6	7.5	e30	261	113	77	57	44	24	16	75	15
21	8.4	8.0	e24	97	95	128	55	49	24	24	37	14
22	9.1	7.4	e20	67	150	347	54	709	52	17	27	10
23	9.3	7.5	e17	51	150	273	51	303	69	19	29	9.0
24	8.9	8.4	e15	44	124	181	e48	127	35	15	53	72
25	8.8	8.9	e13	37	134	144	e45	98	33	13	33	56
26	9.3	9.1	e12	33	129	123	e43	72	54	56	31	27
27	9.4	8.8	e11	29	114	109	41	62	34	91	28	20
28	9.4	8.3	e10	26	103	99	40	55	27	44	25	15
29	9.3	8.5	e9.0	24	---	100	38	106	31	111	22	14
30	8.7	8.8	e8.5	25	---	122	37	70	40	99	24	13
31	8.4	---	e8.0	22	---	116	---	59	---	53	22	---
TOTAL	290.3	311.2	577.8	1252.7	3550	3687	2405	2563	1723	1275	1098	560.7
MEAN	9.36	10.4	18.6	40.4	127	119	80.2	82.7	57.4	41.1	35.4	18.7
MAX	15	30	110	427	900	347	167	709	162	111	89	72
MIN	7.9	7.4	7.2	4.8	15	71	37	21	24	13	18	9.0

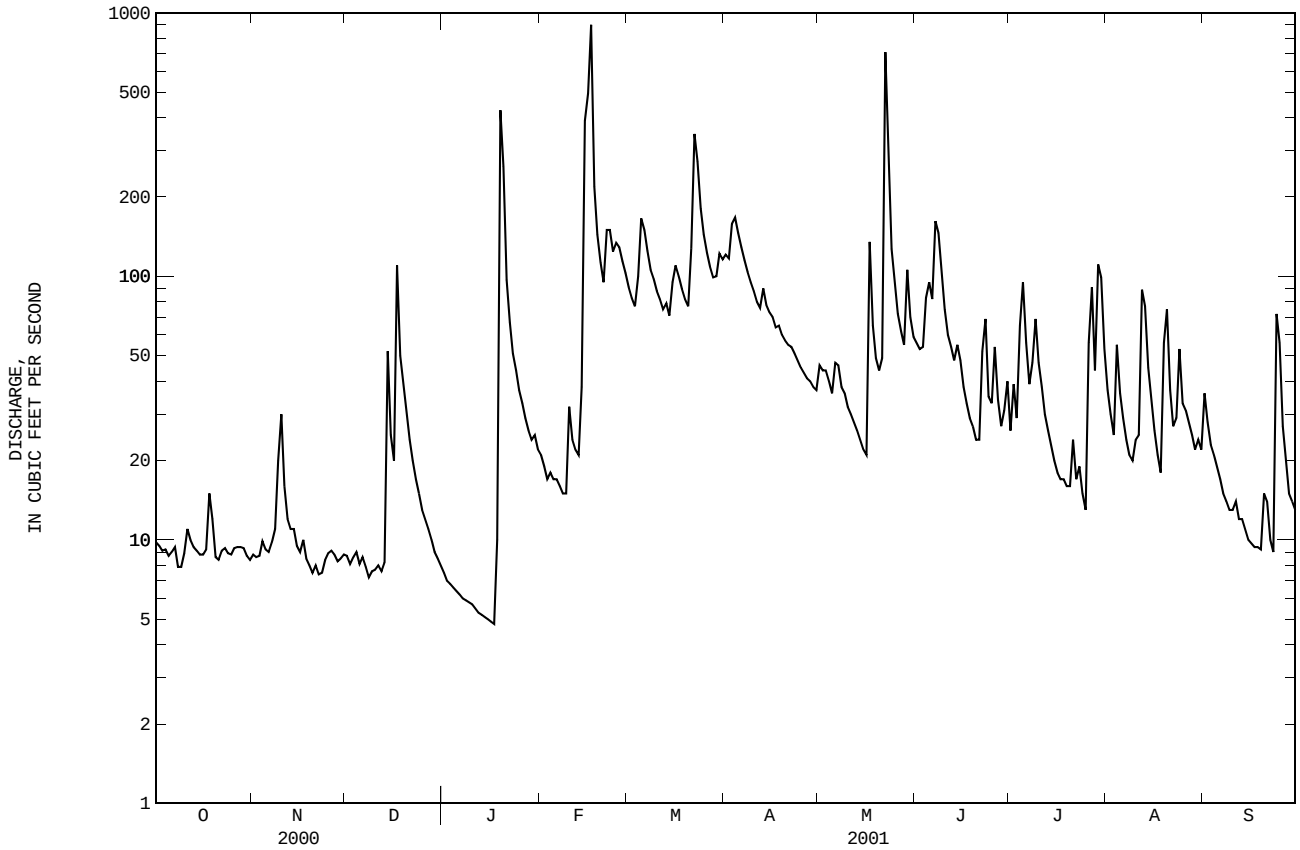
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	9.84	13.1	28.6	66.6	82.5	101	102	63.2	31.9	60.1	23.9	13.5
MAX	11.1	19.0	53.4	135	127	137	136	82.7	57.4	126	35.4	18.7
(WY)	1999	2000	1999	1999	2001	1999	2000	2001	2001	2000	2001	2001
MIN	9.08	9.96	13.6	24.6	56.8	45.5	80.2	52.9	17.6	13.4	7.66	5.47
(WY)	2000	1999	2000	2000	2000	2000	2001	1999	1999	1999	1999	1999

03277300 NORTH FORK KENTUCKY RIVER AT WHITESBURG, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	16656.2		19293.7			
ANNUAL MEAN	45.5		52.9		49.5	
HIGHEST ANNUAL MEAN					52.9	2001
LOWEST ANNUAL MEAN					45.8	2000
HIGHEST DAILY MEAN	980	Jul 13	900	Feb 17	980	Jul 13 2000
LOWEST DAILY MEAN	6.8	Jan 3	4.8	Jan 17	1.9	Oct 8 1999
ANNUAL SEVEN-DAY MINIMUM	7.7	Dec 7	5.1	Jan 11	3.8	Sep 13 1999
MAXIMUM PEAK FLOW			2120	Feb 17	7730	Jan 29 1957
MAXIMUM PEAK STAGE			6.22	Feb 17	14.90	Jan 29 1957
10 PERCENT EXCEEDS	91		114		110	
50 PERCENT EXCEEDS	23		28		25	
90 PERCENT EXCEEDS	8.8		8.4		7.2	

e Estimated



03280000 NORTH FORK KENTUCKY RIVER AT JACKSON, KY

LOCATION.--Lat 37°32'46", long 83°22'21", Breathitt County, Hydrologic Unit 05100201, on left bank at city water plant on Armory Drive at Jackson, 2.8 mi downstream from Quicksand Creek, and at mile 305.0.

DRAINAGE AREA.--1,101 mi^2.

PERIOD OF RECORD.--June 1928 to September 1931, December 1936 to February 1937, April 1938 to current year. Gage-height records collected at same site during periods 1904-07, 1921-31, and February to December 1934 (above 8.0 ft only), January 1935 to September 1976 are published in reports of National Weather Service.

REVISED RECORDS.--WSP 853: 1929(M). WSP 1335: 1928(M), 1929, 1931(M). WSP 1435: 1954-55. WSP 1505: 1948. WSP 1555: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 697.67 ft above NGVD of 1929. See WDR KY-90-1 for history of changes prior to Aug. 22, 1980.

REMARKS.--Records good except for those estimated, which are poor. Small diversions by City of Jackson waterworks. Flow regulated by Carr Fork Lake (station 03277446) beginning January 1976.

COOPERATION.--U.S. Army Corps of Engineers, Louisville District and Kentucky River Authority.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	206	131	138	e180	694	1650	1260	393	377	513	1080	369
2	172	124	138	e170	603	1450	1430	390	419	430	599	468
3	154	115	131	e165	529	1260	1510	491	418	347	455	349
4	143	109	117	e160	487	1140	2330	464	418	723	1830	316
5	137	112	107	e155	477	1640	2330	422	746	1110	5560	272
6	125	113	106	e150	464	2370	1900	376	898	850	2340	247
7	127	110	104	e145	439	2100	1640	420	897	663	1660	232
8	129	124	107	e140	412	1760	1430	484	3910	576	1030	213
9	131	147	104	e135	375	1550	1260	513	2110	2040	650	200
10	131	290	104	e130	447	1350	1130	423	1220	1820	449	191
11	131	386	100	e120	527	1180	1030	369	814	1000	391	181
12	131	329	106	e115	499	1070	944	337	605	671	1360	176
13	158	273	112	e110	480	1110	946	314	483	503	1780	169
14	155	222	1650	e105	652	1190	1060	292	404	365	1580	162
15	126	194	1290	e100	6090	1150	1010	270	348	299	866	152
16	116	177	1540	e98	7240	1730	925	251	407	265	605	145
17	110	200	5970	e94	14400	1820	866	240	406	243	484	159
18	108	197	2300	e92	8290	1550	810	239	314	245	425	163
19	122	160	1330	e1250	3830	1330	760	410	271	251	372	160
20	132	143	889	e10000	2910	1240	707	e360	253	297	358	162
21	135	140	e640	e6000	2350	1420	668	e380	253	283	397	161
22	167	132	e520	e3000	2150	2830	636	620	318	329	414	163
23	205	127	e440	1860	2940	4140	606	1750	323	328	328	174
24	194	121	e390	1440	2580	3370	574	1700	389	273	368	200
25	174	121	e340	1030	2450	2410	546	1120	440	222	445	326
26	157	140	e300	835	2810	1880	514	859	383	220	421	648
27	156	155	e270	758	2300	1560	481	638	646	622	335	402
28	142	156	e250	682	1930	1330	463	519	614	1180	275	282
29	142	148	e230	628	---	1190	438	440	405	2170	463	230
30	140	139	e210	684	---	1170	413	400	398	3070	363	206
31	138	---	e190	771	---	1260	---	419	---	1800	287	---
TOTAL	4494	5035	20223	31302	69355	52200	30617	16303	19887	23708	27970	7278
MEAN	145	168	652	1010	2477	1684	1021	526	663	765	902	243
MAX	206	386	5970	10000	14400	4140	2330	1750	3910	3070	5560	648
MIN	108	109	100	92	375	1070	413	239	253	220	275	145
CFSM	.13	.15	.59	.92	2.25	1.53	.93	.48	.60	.69	.82	.22
IN.	.15	.17	.68	1.06	2.34	1.76	1.03	.55	.67	.80	.95	.25

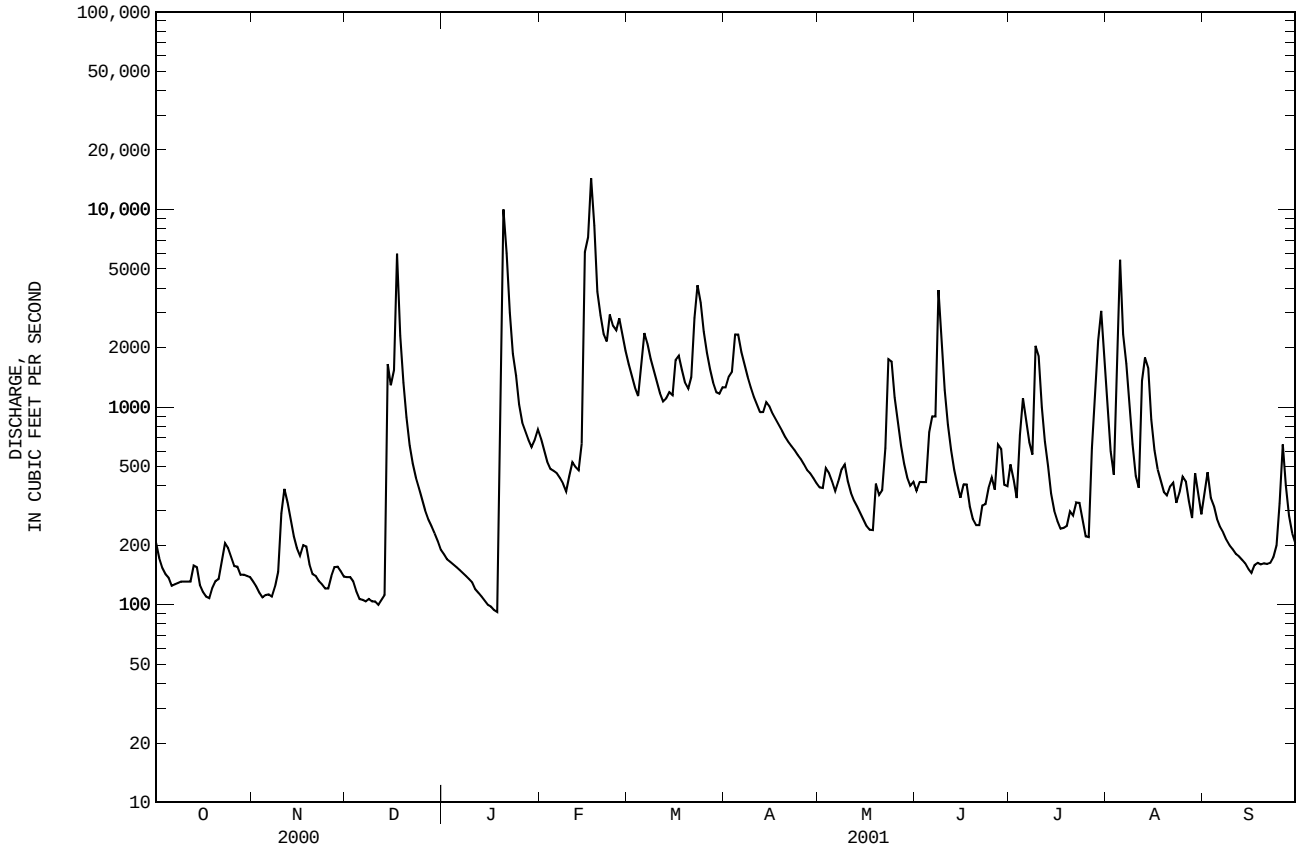
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2001, BY WATER YEAR (WY)

MEAN	479	853	1536	1933	2538	2654	2273	1786	1015	519	433	290
MAX	4189	3019	4649	5168	6392	7268	5944	7189	4166	1484	945	1154
(WY)	1990	1986	1992	1979	1994	1994	1998	1984	1989	2000	1977	1989
MIN	92.8	152	196	155	790	541	452	526	136	90.2	85.6	37.5
(WY)	1981	1982	1981	1981	1988	1988	1986	2001	1988	1988	1988	1999

03280000 NORTH FORK KENTUCKY RIVER AT JACKSON, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1977 - 2001	
ANNUAL TOTAL	298189		308372			
ANNUAL MEAN	815		845		1353	
HIGHEST ANNUAL MEAN					2570	1994
LOWEST ANNUAL MEAN					477	1988
HIGHEST DAILY MEAN	10200	Apr 5	14400	Feb 17	52200	May 8 1984
LOWEST DAILY MEAN	100	Dec 11	92	Jan 18	21	Sep 20 1999
ANNUAL SEVEN-DAY MINIMUM	104	Dec 6	102	Jan 12	26	Sep 17 1999
MAXIMUM PEAK FLOW			15000	Feb 17	53500	Jan 30 1957
MAXIMUM PEAK STAGE			20.66	Feb 17	43.10	Feb 4 1939
INSTANTANEOUS LOW FLOW					.00	Oct 16 1930
ANNUAL RUNOFF (CFSM)	.74		.77		1.23	
ANNUAL RUNOFF (INCHES)	10.08		10.42		16.70	
10 PERCENT EXCEEDS	1770		1870		3100	
50 PERCENT EXCEEDS	380		410		623	
90 PERCENT EXCEEDS	131		130		127	

e Estimated



03280700 CUTSHIN CREEK AT WOOTON, KY

LOCATION.--Lat 37°09'54", long 83°18'29", Leslie County, Hydrologic Unit 05100202, on right bank 30 ft upstream from bridge on State Highway 80, 400 ft upstream from Poundmill Branch, 600 ft upstream from Rockhouse Branch, 0.7 mi downstream from Saw Branch, 1.0 mi southwest of Wooton, and at mile 10.7.

DRAINAGE AREA.--61.3 mi^2.

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 869.84 ft above NGVD of 1929. Prior to Dec. 26, 1957, nonrecording gage at same site and datum.

REMARKS.--Records good except for those estimated, which are poor. Peak of year from floodmark.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1957 reached a stage of 19.43 ft, from floodmarks.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 16	Unknown	*3,540	*7.85	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	e3.6	4.4	e7.3	23	87	99	16	8.6	21	36	16
2	2.7	e3.7	4.2	e7.0	21	77	109	16	10	24	24	11
3	2.7	e4.0	4.1	e6.8	20	64	348	17	11	17	25	8.9
4	2.6	e4.2	6.1	e6.6	20	128	297	21	29	203	38	7.8
5	2.6	e4.3	5.8	e6.3	20	307	193	15	26	161	55	6.6
6	3.5	e4.4	5.6	e6.1	18	205	143	18	16	57	47	6.2
7	3.8	e5.5	5.5	e5.9	17	141	112	29	25	29	21	5.3
8	3.2	e6.3	5.4	e5.7	16	112	93	19	18	47	15	4.6
9	2.6	e12	5.5	e5.5	16	91	80	17	14	79	16	4.1
10	2.2	20	5.4	e5.3	33	75	68	14	11	49	13	4.5
11	2.1	7.7	5.5	e5.1	26	66	60	13	9.4	32	12	4.8
12	2.2	5.1	5.9	e5.0	25	60	53	14	8.1	22	320	4.1
13	2.2	4.4	18	e4.9	25	65	76	13	6.9	17	445	3.6
14	2.3	4.2	113	e4.8	57	53	63	10	6.3	14	94	3.5
15	2.2	3.8	37	e4.7	e520	98	63	8.9	6.1	12	42	3.0
16	2.2	3.8	63	e4.6	e1700	124	57	8.9	5.4	9.4	25	2.7
17	2.4	3.9	160	e4.5	e1450	105	52	9.4	5.1	8.5	20	2.9
18	3.6	3.8	54	15	e490	87	47	8.9	4.4	8.7	14	3.1
19	3.6	3.5	e31	876	e190	77	42	8.5	3.9	9.1	13	3.0
20	3.6	3.4	e21	350	e110	74	38	7.7	4.1	26	13	3.6
21	7.2	3.3	e17	119	82	173	35	19	4.0	24	8.7	4.5
22	13	2.8	e14	72	276	474	31	84	72	13	7.2	3.3
23	7.8	3.0	e13	55	236	362	29	34	57	13	6.8	3.0
24	6.6	3.1	e12	44	158	209	28	20	15	9.1	8.3	23
25	8.8	5.2	e11	38	222	141	25	26	29	9.6	7.5	15
26	9.9	5.5	e10	35	188	107	22	15	63	69	5.7	5.5
27	e7.2	4.5	e9.4	28	142	86	21	12	34	57	31	3.7
28	e5.1	4.0	e9.0	26	110	73	20	10	36	74	107	3.1
29	e4.2	3.9	e8.5	23	---	73	17	9.4	67	374	21	3.0
30	e4.1	4.5	e8.0	31	---	75	16	7.7	44	192	13	2.9
31	e3.6	---	e7.6	28	---	80	---	6.9	---	70	11	---
TOTAL	132.7	151.4	679.9	1836.1	6211	3949	2337	528.3	649.3	1750.4	1515.2	176.3
MEAN	4.28	5.05	21.9	59.2	222	127	77.9	17.0	21.6	56.5	48.9	5.88
MAX	13	20	160	876	1700	474	348	84	72	374	445	23
MIN	2.1	2.8	4.1	4.5	16	53	16	6.9	3.9	8.5	5.7	2.7
CFSM	.07	.08	.36	.97	3.62	2.08	1.27	.28	.35	.92	.80	.10
IN.	.08	.09	.41	1.11	3.77	2.40	1.42	.32	.39	1.06	.92	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2001, BY WATER YEAR (WY)

MEAN	26.1	60.2	105	143	167	198	163	112	55.7	32.3	23.8	17.3
MAX	287	309	359	597	371	620	471	449	423	144	107	125
(WY)	1990	1978	1973	1974	1994	1975	1998	1983	1989	1958	1966	1974
MIN	.26	5.05	3.30	6.97	27.0	21.4	16.6	14.0	3.17	2.17	1.16	.73
(WY)	1964	2001	1966	1981	1968	1988	1963	1964	1988	1970	1988	1969

03280700 CUTSHIN CREEK AT WOOTON, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1958 - 2001	
ANNUAL TOTAL	15801.7		19916.6			
ANNUAL MEAN	43.2		54.6		91.5	
HIGHEST ANNUAL MEAN					212	1974
LOWEST ANNUAL MEAN					27.6	1988
HIGHEST DAILY MEAN	1660	Apr 4	1700	Feb 16	4890	May 7 1984
LOWEST DAILY MEAN	2.1	Oct 11	2.1	Oct 11	.00	Sep 29 1959
ANNUAL SEVEN-DAY MINIMUM	2.2	Oct 10	2.2	Oct 10	.01	Sep 11 1964
MAXIMUM PEAK FLOW			3540	Feb 16	14200	Mar 12 1963
MAXIMUM PEAK STAGE			7.85	Feb 16	16.23	Mar 12 1963
INSTANTANEOUS LOW FLOW					.00	Sep 29 1959
ANNUAL RUNOFF (CFSM)	.70		.89		1.49	
ANNUAL RUNOFF (INCHES)	9.59		12.09		20.29	
10 PERCENT EXCEEDS	112		112		200	
50 PERCENT EXCEEDS	12		15		32	
90 PERCENT EXCEEDS	4.0		3.6		2.9	

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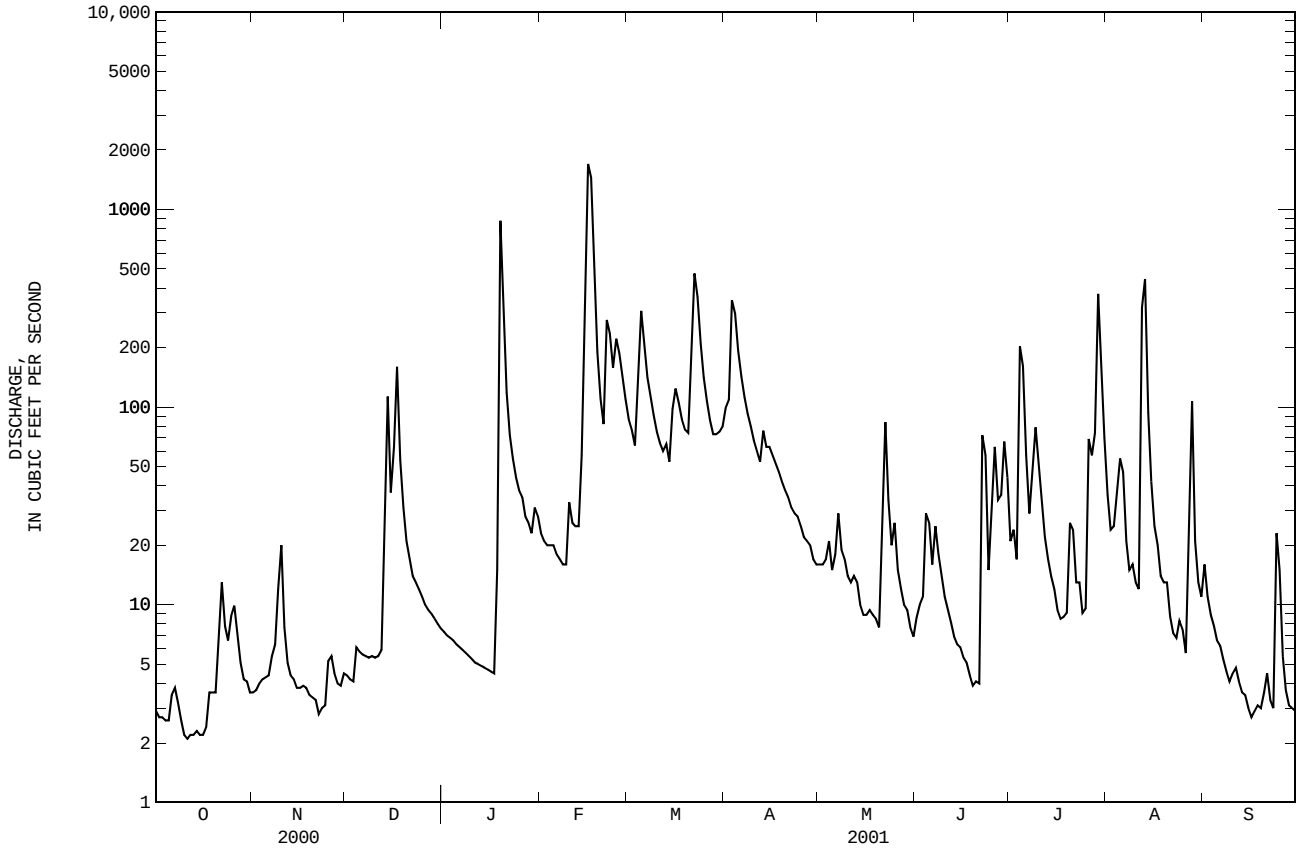

03281000 MIDDLE FORK KENTUCKY RIVER AT TALLEGA, KY

LOCATION.--Lat 37°33'18", long 83°35'38", Lee County, Hydrologic Unit 05100202, on left bank 100 ft downstream of bridge on State Highway 708, 150 ft upstream from Lynam Creek, 0.5 mi southwest of Tallega, 8.3 mi upstream from confluence with North Fork, and at mile 8.3.

DRAINAGE AREA.--537 mi^2.

PERIOD OF RECORD.--October 1930 to March 1932, October 1939 to current year.

REVISED RECORDS.--WSP 1113: 1931, 1940. WSP 1385: 1931-32, 1948, drainage area. WSP 1505: 1946(M), 1951(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 642.13 ft above NGVD of 1929. Prior to Feb. 6, 1940, nonrecording gage at same site and datum.

REMARKS.--Records good except for those estimated, which are poor. Flow regulated by Buckhorn Lake beginning December 1960 (station 03280800).

COOPERATION.--U.S.Army Corps of Engineers, Louisville District and Kentucky River Authority.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	328	116	93	521	2670	655	66	50	178	654	139
2	72	287	56	92	523	2120	550	65	64	230	534	190
3	68	256	48	e91	337	1180	553	67	68	188	372	139
4	68	254	42	e90	324	760	708	89	73	287	404	86
5	68	252	37	89	308	925	1780	77	94	683	340	82
6	68	253	38	90	288	1720	1830	66	328	922	285	78
7	68	257	44	89	274	1960	1730	62	549	348	278	91
8	68	255	43	87	256	1720	1120	65	1500	433	268	93
9	68	257	43	67	250	1290	698	64	719	1020	185	92
10	68	291	45	60	264	911	408	61	404	822	88	91
11	65	267	48	e54	285	789	239	60	224	415	110	90
12	55	300	50	e54	380	647	163	60	146	240	212	86
13	48	432	53	e55	411	671	144	59	134	176	301	72
14	47	386	341	e55	550	670	145	57	115	139	2180	71
15	47	357	239	64	e2400	693	131	57	96	78	1220	70
16	108	353	1670	72	e2650	818	123	57	103	69	431	70
17	235	350	3290	90	4920	1250	113	46	80	64	340	70
18	321	307	1330	90	3330	1210	109	41	71	77	299	71
19	400	280	1400	1050	3080	914	102	44	68	154	222	85
20	261	275	1290	2820	2860	879	97	50	68	153	250	123
21	200	271	1220	2780	3150	997	94	46	92	108	160	121
22	213	241	1160	2460	3460	1580	90	149	161	105	89	120
23	210	218	844	2770	3470	2330	85	140	148	338	84	119
24	205	216	296	3140	3330	2780	82	80	283	313	91	123
25	211	189	232	3480	2700	1980	78	74	285	223	100	128
26	204	150	219	1790	2790	1420	75	69	197	143	85	122
27	202	146	176	712	3300	1110	72	59	368	122	80	137
28	300	143	152	529	3220	811	71	56	368	299	79	159
29	338	141	149	500	---	741	68	51	222	1800	82	240
30	335	139	123	443	---	643	67	48	144	2290	84	279
31	334	---	96	434	---	632	---	46	---	2400	79	---
TOTAL	5054	7851	14890	24290	49631	38821	12180	2031	7222	14817	9986	3437
MEAN	163	262	480	784	1773	1252	406	65.5	241	478	322	115
MAX	400	432	3290	3480	4920	2780	1830	149	1500	2400	2180	279
MIN	47	139	37	54	250	632	67	41	50	64	79	70
CFSM	.30	.49	.89	1.46	3.30	2.33	.76	.12	.45	.89	.60	.21
IN.	.35	.54	1.03	1.68	3.44	2.69	.84	.14	.50	1.03	.69	.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2001, BY WATER YEAR (WY)

MEAN	305	569	917	1289	1443	1665	1162	916	477	228	177	168
MAX	2225	1715	2826	3320	3634	3672	3280	2762	2599	687	623	784
(WY)	1990	1978	1973	1974	1994	1994	1994	1971	1989	1992	1992	1989
MIN	47.5	78.6	45.5	56.8	270	241	98.7	57.9	49.1	43.6	45.0	45.9
(WY)	1989	2000	1966	1981	1968	1988	1986	1986	1988	1988	1988	1987

03281000 MIDDLE FORK KENTUCKY RIVER AT TALLEGA, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1961 - 2001	
ANNUAL TOTAL	166774		190210			
ANNUAL MEAN	456		521		773	
HIGHEST ANNUAL MEAN					1492	1994
LOWEST ANNUAL MEAN					267	1988
HIGHEST DAILY MEAN	3410	Apr 6	4920	Feb 17	10300	Feb 27 1962
LOWEST DAILY MEAN	37	Dec 5	37	Dec 5	9.5	Oct 28 1998
ANNUAL SEVEN-DAY MINIMUM	42	Dec 4	42	Dec 4	12	Nov 9 1991
MAXIMUM PEAK FLOW			5580	Feb 17	52700	Jan 30 1957
MAXIMUM PEAK STAGE			18.63	Feb 17	43.33	Jan 30 1957
INSTANTANEOUS LOW FLOW					.10	Oct 12 1953
ANNUAL RUNOFF (CFSM)	.85		.97		1.44	
ANNUAL RUNOFF (INCHES)	11.55		13.18		19.56	
10 PERCENT EXCEEDS	1230		1720		2490	
50 PERCENT EXCEEDS	233		197		294	
90 PERCENT EXCEEDS	60		60		63	

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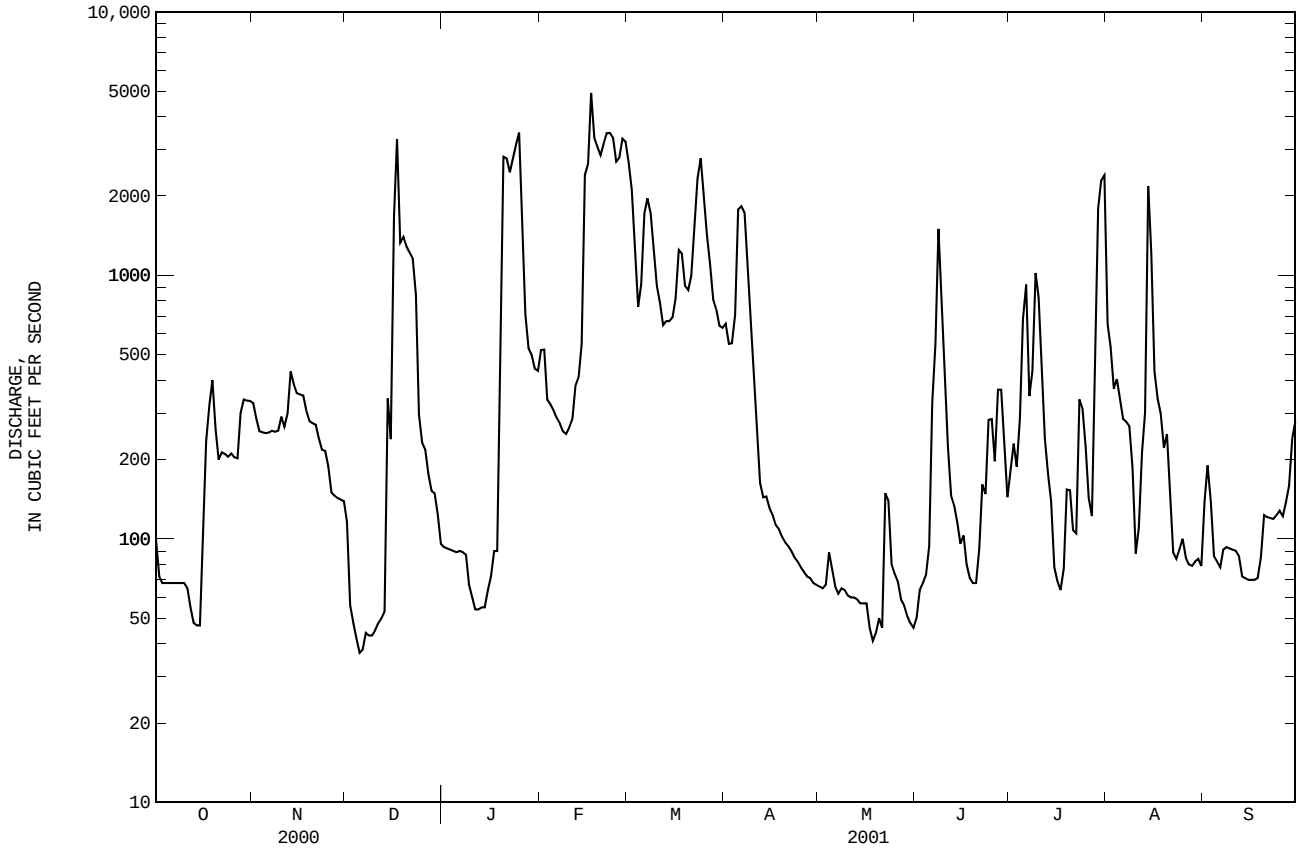


03281100 GOOSE CREEK AT MANCHESTER, KY

LOCATION.--Lat 37°09'07", long 83°45'37", Clay County, Hydrologic Unit 05100203, on left bank on downstream side of Second Street bridge at Manchester, 0.9 mi upstream from Little Goose Creek, and at mile 21.7.

DRAINAGE AREA.--163 mi^2.

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 819.37 ft above NGVD of 1929. Prior to September 15, 1975, nonrecording gage at same site and datum.

REMARKS.-- Records good except for those estimated, which are poor. Slight diversions by City of Manchester.

COOPERATION.--Kentucky River Authority.

EXTREMES OUTSIDE PERIOD OF RECORD.---Flood of June 28, 1947, Jan. 29, 1957, and Mar. 12, 1963, reached a stage of 40.6 ft, discharge, 38,000 ft^3/s, 37.3 ft, discharge, 29,800 ft^3/s, and 33.5 ft, discharge, 21,500 ft^3/s, respectively, present site.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 20	0100	5,370	18.58	Feb 17	0600	*5,830	*18.70

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	5.8	14	e29	126	323	158	41	39	37	148	13
2	7.4	5.6	14	e27	113	275	182	71	47	28	90	17
3	6.0	5.6	16	25	101	231	600	50	50	24	84	15
4	5.5	6.1	16	24	95	247	948	40	219	375	135	13
5	5.5	6.4	16	e23	92	742	555	35	780	1000	99	12
6	8.8	5.9	16	e23	85	620	406	37	431	316	83	11
7	8.9	6.9	16	e22	76	441	326	408	2030	162	61	10
8	9.5	11	16	e22	69	339	271	210	840	106	44	8.5
9	9.8	26	16	e22	66	282	233	125	579	382	35	8.1
10	9.1	54	16	e21	167	231	202	88	304	445	37	7.5
11	8.5	47	17	e21	193	194	176	68	188	191	68	7.0
12	8.0	28	18	e21	179	169	154	59	121	111	609	6.3
13	8.0	22	36	e20	163	188	181	49	88	74	1180	6.3
14	8.4	19	692	e20	185	165	179	39	68	53	315	5.7
15	8.6	16	280	e20	1730	208	165	33	54	40	155	5.3
16	8.3	15	573	e20	2160	402	160	29	53	32	95	4.9
17	8.4	15	2320	e19	4250	361	138	26	42	26	69	4.9
18	10	14	556	41	971	299	125	23	33	25	52	5.4
19	7.9	13	276	2340	538	256	111	28	27	28	41	7.1
20	7.6	12	166	3070	387	236	102	23	26	36	37	7.6
21	9.0	11	115	702	309	309	96	47	38	26	31	6.9
22	15	11	e85	391	502	569	86	148	73	26	26	6.9
23	12	11	e64	282	703	505	77	131	89	22	22	6.7
24	11	11	e56	225	516	403	71	77	59	20	20	11
25	9.8	15	e48	180	883	322	67	78	53	16	22	13
26	9.2	17	e43	138	955	265	59	59	79	23	18	14
27	11	16	e40	129	579	220	53	43	56	28	16	8.5
28	17	16	e37	104	419	183	49	37	48	31	15	6.5
29	8.9	16	e35	96	---	164	44	58	40	497	15	4.8
30	7.1	15	e33	135	---	156	40	58	41	756	15	4.2
31	5.8	---	e31	143	---	153	---	39	---	299	13	---
TOTAL	279.1	473.3	5677	8355	16612	9458	6014	2257	6595	5235	3650	258.1
MEAN	9.00	15.8	183	270	593	305	200	72.8	220	169	118	8.60
MAX	17	54	2320	3070	4250	742	948	408	2030	1000	1180	17
MIN	5.5	5.6	14	19	66	153	40	23	26	16	13	4.2
CFSM	.06	.10	1.12	1.65	3.64	1.87	1.23	.45	1.35	1.04	.72	.05
IN.	.06	.11	1.30	1.91	3.79	2.16	1.37	.52	1.51	1.19	.83	.06

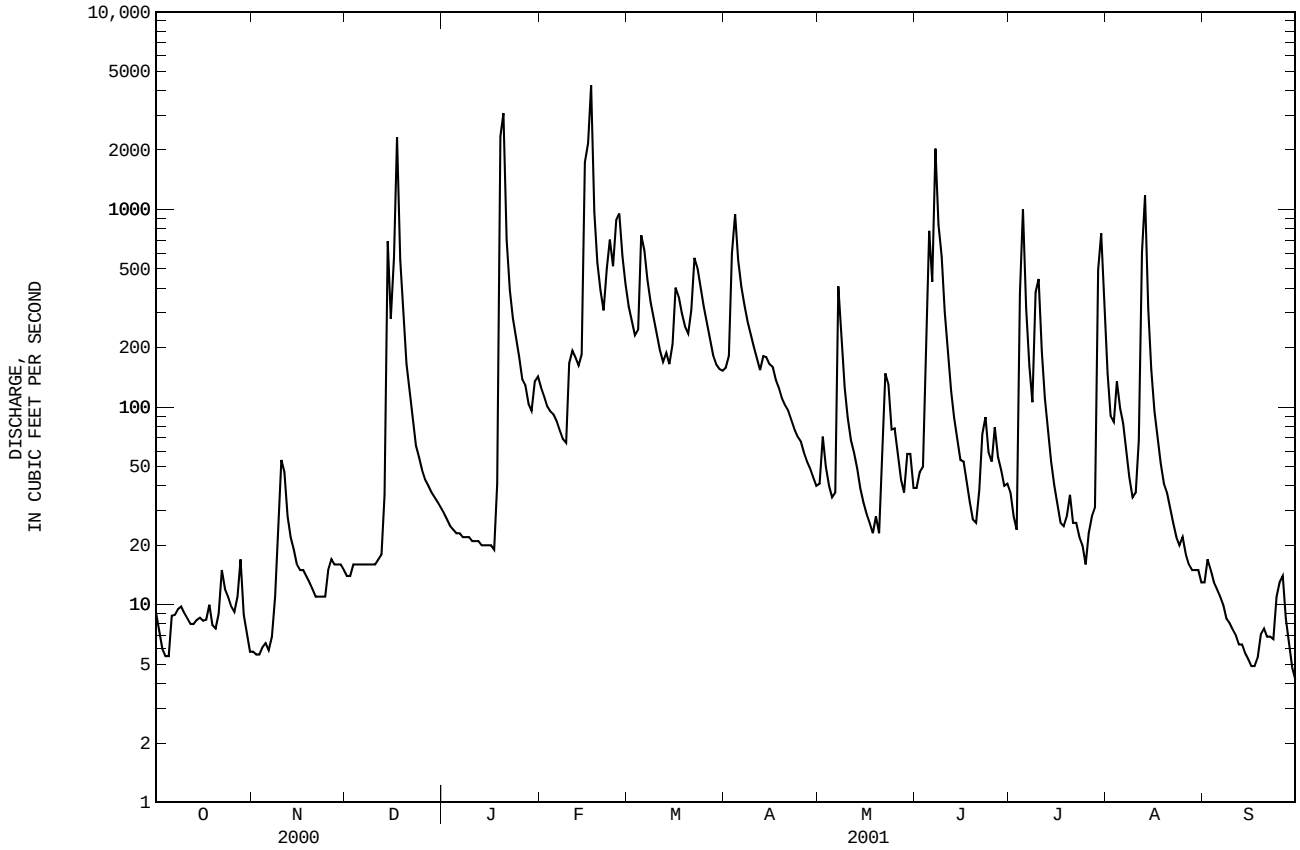
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2001, BY WATER YEAR (WY)

MEAN	80.2	189	353	437	478	524	430	292	153	94.0	51.4	40.9
MAX	600	646	1229	1205	1196	1665	1308	1158	975	381	178	185
(WY)	1990	1978	1991	1974	1972	1975	1998	1984	1989	1965	1977	1979
MIN	2.13	11.4	28.3	22.9	70.5	111	50.8	29.3	6.48	2.03	3.72	2.11
(WY)	1970	1988	1966	1981	1968	1969	1986	1965	1988	1966	1988	1965

03281100 GOOSE CREEK AT MANCHESTER, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1965 - 2001	
ANNUAL TOTAL	47151.3		64863.5			
ANNUAL MEAN	129		178		259	
HIGHEST ANNUAL MEAN					456	1994
LOWEST ANNUAL MEAN					107	1988
HIGHEST DAILY MEAN	2940	Apr 4	4250	Feb 17	13700	May 7 1984
LOWEST DAILY MEAN	5.5	Sep 22	4.2	Sep 30	.00	Oct 8 1980
ANNUAL SEVEN-DAY MINIMUM	5.9	Oct 31	5.5	Sep 12	.16	Oct 4 1980
MAXIMUM PEAK FLOW			5830	Feb 17	19200	May 7 1984
MAXIMUM PEAK STAGE			18.70	Feb 17	32.85	May 7 1984
INSTANTANEOUS LOW FLOW					.00	Oct 8 1980
ANNUAL RUNOFF (CFSM)	.79		1.09		1.59	
ANNUAL RUNOFF (INCHES)	10.76		14.80		21.60	
10 PERCENT EXCEEDS	333		435		558	
50 PERCENT EXCEEDS	43		44		87	
90 PERCENT EXCEEDS	8.5		8.4		6.1	

e Estimated



03281500 SOUTH FORK KENTUCKY RIVER AT BOONEVILLE, KY

LOCATION.--Lat 37°28'47", long 83°40'31", Owsley County, Hydrologic Unit 05100203, on right bank 100 ft downstream from Buck Creek, 350 ft downstream from bridge on State Highway 30 at Booneville, 0.3 mi downstream from Meadow Creek, and at mile 11.7.

DRAINAGE AREA.--722 mi^2.

PERIOD OF RECORD.--March 1925 to September 1931, October 1939 to current year. Monthly discharge only for October 1939, published in WSP 1305.

REVISED RECORDS.--WSP 893: 1929(M). WSP 1335: WSP 1555: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 642.49 ft above NGVD of 1929. See WDR KY-92-1 for history of changes prior to Nov. 27, 1929. Nov. 28, 1929 to July 26, 2000, recording gage 500 ft downstream at present site and datum.

REMARKS.--Records good except for those estimated, which are poor. Diversions by City of Booneville.

COOPERATION.--U.S. Army Corps of Engineers, Louisville District and Kentucky River Authority.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 14,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 20	1200	15,100	24.30	Feb 17	1700	*17,300	*26.48

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	37	55	181	721	1450	646	172	174	273	915	110
2	79	38	53	e170	629	1160	697	182	186	183	549	123
3	68	46	56	e160	554	991	866	259	208	151	450	94
4	57	39	54	157	502	872	3250	230	262	195	723	81
5	47	27	55	147	475	1630	2580	196	1050	2190	597	75
6	41	23	54	143	447	2510	1750	166	1300	1460	414	67
7	35	32	54	e140	409	1870	1340	171	1680	629	318	59
8	30	48	56	e135	367	1410	1080	468	2820	477	248	52
9	27	80	56	e130	335	1140	912	367	1400	552	198	46
10	28	140	60	e125	394	943	798	257	854	895	200	41
11	29	298	70	123	656	804	707	209	517	729	412	37
12	32	231	65	e120	670	712	628	177	351	358	1060	32
13	32	169	69	e115	645	748	609	161	252	230	1820	29
14	29	134	1700	e112	822	807	644	153	194	164	2160	25
15	27	112	2180	e110	7820	784	591	135	160	128	724	21
16	26	99	2580	e107	9010	1270	560	117	144	104	438	19
17	26	89	11500	e105	16000	1520	518	105	129	87	303	17
18	24	80	5100	158	8920	1260	467	95	116	112	232	16
19	19	73	1750	3140	3060	1050	427	97	97	172	193	17
20	18	68	996	13700	1940	971	392	97	88	154	175	16
21	18	62	683	5580	1400	1340	369	112	94	207	153	14
22	25	58	524	2210	1290	2790	345	342	148	196	132	12
23	31	54	e430	1440	2620	2760	314	915	215	146	115	9.7
24	67	51	372	1110	2330	2020	287	538	192	126	126	13
25	63	57	e320	915	2530	1500	266	423	168	93	113	17
26	61	60	e280	736	4460	1160	248	419	151	92	89	34
27	54	60	257	655	2970	944	229	308	233	128	83	28
28	45	61	230	579	1990	794	212	240	206	263	81	23
29	36	63	213	511	---	702	196	193	153	3820	71	36
30	39	59	202	613	---	657	183	160	150	4780	79	34
31	42	---	188	782	---	631	---	159	---	2070	64	---
TOTAL	1250	2448	30262	34409	73966	39200	22111	7623	13692	21164	13235	1197.7
MEAN	40.3	81.6	976	1110	2642	1265	737	246	456	683	427	39.9
MAX	95	298	11500	13700	16000	2790	3250	915	2820	4780	2160	123
MIN	18	23	53	105	335	631	183	95	88	87	64	9.7
CFSM	.06	.11	1.35	1.54	3.66	1.75	1.02	.34	.63	.95	.59	.06
IN.	.06	.13	1.56	1.77	3.81	2.02	1.14	.39	.71	1.09	.68	.06

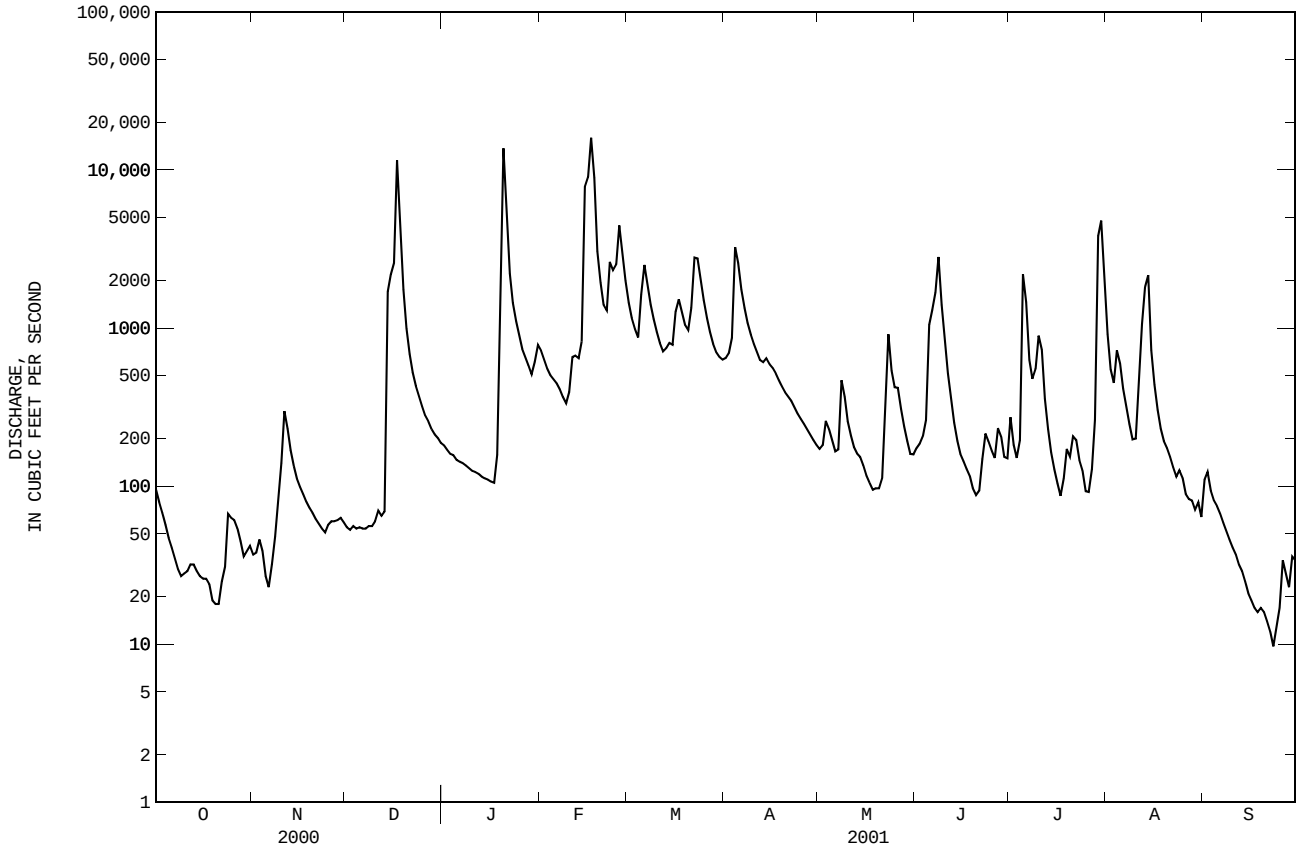
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2001, BY WATER YEAR (WY)

MEAN	210	647	1323	1810	2097	2294	1702	1087	591	396	256	143
MAX	2843	2380	4935	5461	5905	7400	4703	5130	2710	2666	1700	827
(WY)	1990	1974	1991	1974	1956	1975	1998	1984	1989	1941	1942	1989
MIN	.084	.32	12.1	104	178	568	222	119	36.7	3.67	4.56	.68
(WY)	1954	1954	1954	1981	1941	1988	1963	1941	1966	1944	1930	1930

03281500 SOUTH FORK KENTUCKY RIVER AT BOONEVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1925 - 2001	
ANNUAL TOTAL	211773		260557.7			
ANNUAL MEAN	579		714		1045	
HIGHEST ANNUAL MEAN					1808	1994
LOWEST ANNUAL MEAN					413	1988
HIGHEST DAILY MEAN	11500	Dec 17	16000	Feb 17	51300	Jan 30 1957
LOWEST DAILY MEAN	18	Oct 20	9.7	Sep 23	.00	Oct 11 1953
ANNUAL SEVEN-DAY MINIMUM	22	Oct 16	14	Sep 18	.00	Oct 11 1953
MAXIMUM PEAK FLOW			17300	Feb 17	66100	Jan 30 1957
MAXIMUM PEAK STAGE			26.48	Feb 17	43.40	Jan 30 1957
INSTANTANEOUS LOW FLOW					.00	Oct 11 1953
ANNUAL RUNOFF (CFSM)	.80		.99		1.45	
ANNUAL RUNOFF (INCHES)	10.91		13.42		19.67	
10 PERCENT EXCEEDS	1530		1720		2380	
50 PERCENT EXCEEDS	249		195		350	
90 PERCENT EXCEEDS	46		34		26	

e Estimated



03282000 KENTUCKY RIVER AT LOCK 14, AT HEIDELBERG, KY

LOCATION.--Lat 37°33'19", long 83°46'06", Lee County, Hydrologic Unit 05100204, on right bank 200 ft upstream from lock 14 at Heidelberg, 0.3 mi upstream from Sturgeon Creek, and at mile 249.2.

DRAINAGE AREA.--2,657 mi^2.

PERIOD OF RECORD.--October 1925 to September 1931, December 1936 to February 1937, July 1938 to current year. Gage-height records collected in this vicinity since 1902 are published in reports of National Weather Service.

REVISED RECORDS.--WSP 1385: 1926-27, 1928(M), 1929, 1931(M), 1937, 1939(M), drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 626.66 ft, Ohio River datum. Prior to September 2, 1939, nonrecording gage at lock 14 at same datum.

REMARKS.--Records fair except for those below 150 ft^3/s and for those estimated, which are poor. Flow regulated Buckhorn Lake beginning December 1960 (station 03280800), and by Carr Fork Lake beginning January 1976 (station 03277446). Small diversions by City of Lexington waterworks.

COOPERATION.--U.S. Army Corps of Engineers, Louisville District and Kentucky River Authority.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	496	554	429	e420	2330	6890	2760	654	697	859	4090	e490
2	412	529	364	e400	2120	5530	2910	625	706	1050	2390	e700
3	352	473	319	e380	1770	4280	3100	690	779	916	2000	e880
4	319	469	299	e360	1510	3350	5660	830	834	933	2150	e660
5	290	457	267	e345	1440	4170	7560	782	1310	3490	5670	e550
6	273	451	248	e330	1340	6850	6450	682	2670	3970	5720	e480
7	255	463	244	e320	1280	7040	5490	629	3040	2280	3110	e420
8	243	479	250	e310	1170	5880	4390	877	7770	1780	2290	e430
9	242	541	254	e305	1080	4790	3480	1060	6550	4070	1580	e400
10	247	782	263	e295	1180	3880	2840	912	3680	4280	1290	e380
11	249	1110	272	e290	1500	3290	2420	743	2240	3290	1570	e360
12	237	1210	284	e285	1730	2840	2100	651	1540	1900	1710	e350
13	213	1120	301	e280	1730	2880	2010	585	1180	1300	3600	e330
14	210	1060	1860	e275	1880	3120	2110	545	948	975	6270	e310
15	225	882	5050	e270	15000	3080	2110	511	790	702	3850	e290
16	202	800	5840	e265	24600	3770	1940	469	884	563	2230	e280
17	296	756	24700	e260	33600	5110	1770	427	763	490	1370	e260
18	397	733	15500	427	29700	4820	1630	386	699	510	1200	e280
19	447	676	6040	3510	16000	4030	1490	404	564	894	915	e280
20	429	634	3930	25800	9860	3550	1380	519	494	796	877	e300
21	318	596	2970	20300	8210	3980	1290	880	568	724	836	e340
22	437	559	2450	9450	7730	6610	1220	970	632	778	e800	e330
23	480	510	1730	6910	9250	9400	1130	2240	829	968	e720	e330
24	489	492	1300	6370	9790	10200	1040	2910	821	926	e600	e340
25	520	495	974	6140	8450	7540	959	2170	982	737	e660	e380
26	490	456	759	4160	11500	5510	895	1730	894	603	e740	e530
27	473	451	e670	2620	10400	4350	836	1360	916	959	e670	e910
28	497	464	e600	2080	8580	3490	786	1060	1370	1620	e560	e680
29	570	449	e540	1840	---	3020	736	851	1130	10300	e490	e520
30	561	446	e490	1950	---	2720	689	717	796	13800	e700	e570
31	556	---	e460	2350	---	2680	---	647	---	8460	e590	---
TOTAL	11425	19097	79657	99297	224730	148650	73181	28516	47076	74923	61248	13360
MEAN	369	637	2570	3203	8026	4795	2439	920	1569	2417	1976	445
MAX	570	1210	24700	25800	33600	10200	7560	2910	7770	13800	6270	910
MIN	202	446	244	260	1080	2680	689	386	494	490	490	260
CFSM	.14	.24	.97	1.21	3.02	1.80	.92	.35	.59	.91	.74	.17
IN.	.16	.27	1.12	1.39	3.15	2.08	1.02	.40	.66	1.05	.86	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2001, BY WATER YEAR (WY)

MEAN	1287	2572	4642	5771	7114	7521	5963	4694	2588	1236	993	714
MAX	10380	7006	14850	14010	16710	18260	15260	16010	10380	3320	3006	3680
(WY)	1990	1978	1991	1994	1994	1994	1998	1984	1989	1992	1977	1989
MIN	232	425	582	362	2345	1791	855	910	247	206	154	70.1
(WY)	2000	2000	1981	1981	1988	1988	1986	1986	1988	1988	1988	1999

03282000 KENTUCKY RIVER AT LOCK 14, AT HEIDELBERG, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1977 - 2001	
ANNUAL TOTAL	814654		881160			
ANNUAL MEAN	2226		2414		3741	
HIGHEST ANNUAL MEAN					6973	1994
LOWEST ANNUAL MEAN					1461	1988
HIGHEST DAILY MEAN	27300	Apr 5	33600	Feb 17	85900	May 8 1984
LOWEST DAILY MEAN	202	Oct 16	202	Oct 16	45	Jul 10 1988
ANNUAL SEVEN-DAY MINIMUM	226	Oct 10	226	Oct 10	51	Sep 11 1999
MAXIMUM PEAK FLOW			36300	Feb 17	120000	Feb 4 1939
MAXIMUM PEAK STAGE			18.80	Feb 17	35.60	Feb 4 1939
INSTANTANEOUS LOW FLOW					4.0	Oct 20 1930
ANNUAL RUNOFF (CFSM)	.84		.91		1.41	
ANNUAL RUNOFF (INCHES)	11.41		12.34		19.13	
10 PERCENT EXCEEDS	5430		6190		9470	
50 PERCENT EXCEEDS	1100		880		1560	
90 PERCENT EXCEEDS	305		301		276	

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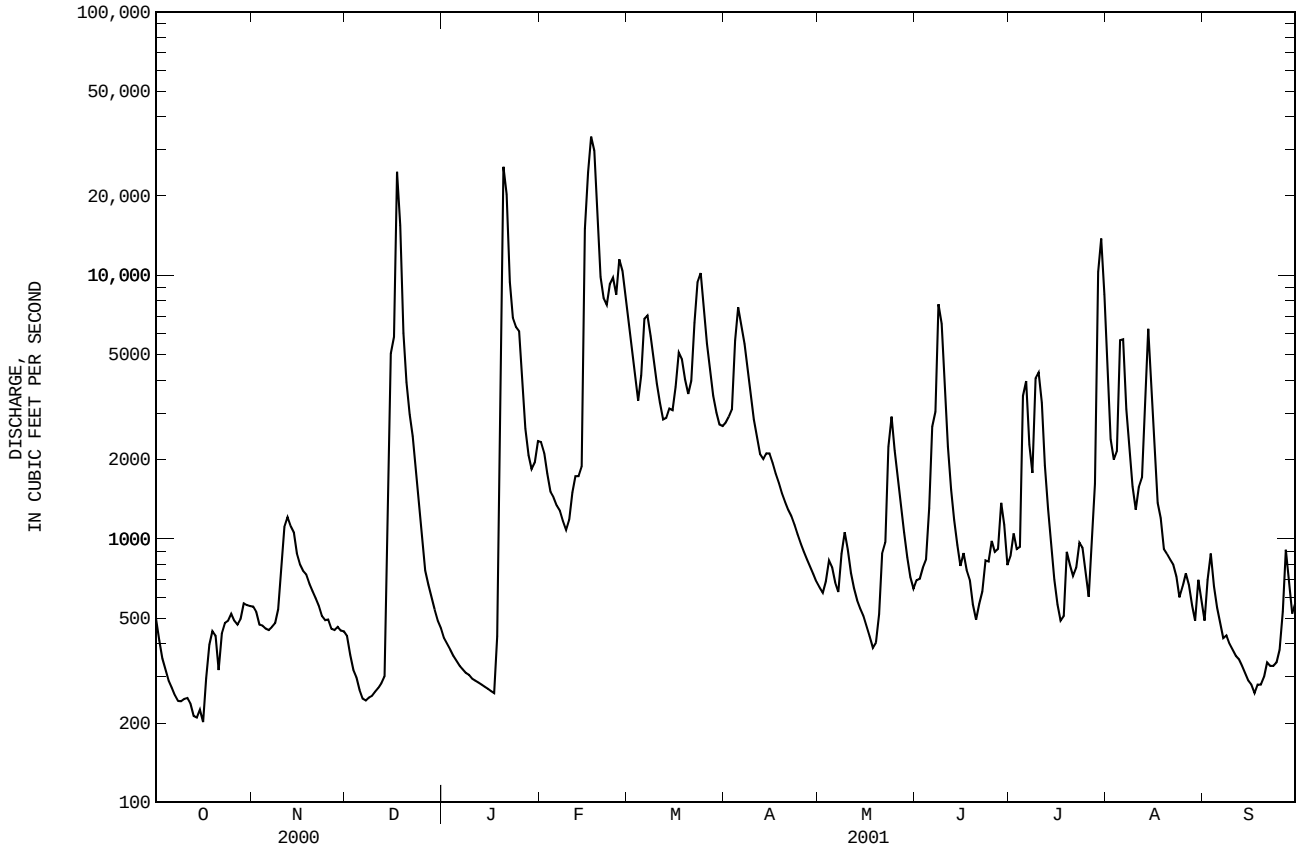


03282040 STURGEON CREEK AT CRESSMONT, KY

LOCATION.--Lat 37°30'02", long 83°48'37", Lee County, Hydrologic Unit 05100204, on right bank 30 ft downstream of bridge on State Highway 597, 0.2 mi southeast of Cressmont, 0.2 mi upstream from Elkhorn Branch, and 0.5 mi downstream from Granny Dismal Creek.

DRAINAGE AREA.--77.3 mi^2.

PERIOD OF RECORD.--October 1992 to current year.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 704.53 ft above NGVD of 1929.

REMARKS.--Records good except for those estimated, which are poor. Peak of year from floodmark.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	2300	*3,030	*9.72	Feb 17	unknown	*3,170	*9.91

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.78	1.2	2.1	e13	105	140	94	23	15	4.8	e55	e6.6
2	.57	1.0	1.9	e13	e85	121	101	18	27	7.3	e37	e11
3	.72	1.2	2.4	e12	e68	101	142	15	25	4.5	e28	e5.5
4	.78	1.1	2.8	e12	e63	105	208	13	37	7.2	e26	e3.5
5	.81	.92	3.0	e12	58	178	177	11	82	12	e18	e2.6
6	.81	.83	2.9	e12	48	159	151	9.9	49	14	e14	e2.3
7	1.0	.90	2.7	e11	44	137	126	12	37	8.8	e11	e2.0
8	1.1	.95	2.7	e11	37	119	106	17	41	7.4	e7.6	e1.9
9	1.1	2.3	2.7	e11	34	104	90	13	26	16	e6.0	e2.2
10	1.1	12	3.4	e10	e60	87	77	11	18	11	e50	e2.7
11	1.0	8.9	4.6	e10	e72	76	68	9.0	13	6.9	e42	e2.6
12	1.0	6.5	5.9	e9.8	e65	69	58	8.0	11	4.7	e20	e2.4
13	.92	5.3	5.8	e9.5	e62	119	73	7.0	8.9	3.6	e16	e2.2
14	.90	4.2	132	e9.0	e100	119	67	5.6	7.8	2.9	e10	e2.0
15	.94	3.4	42	e8.8	e600	148	59	5.1	11	2.3	e8.0	e1.8
16	.95	3.0	676	e8.5	e1300	192	57	4.6	98	1.9	e7.0	e1.7
17	1.1	2.6	995	e8.2	e2200	172	49	4.4	26	1.8	e5.2	e1.8
18	1.2	2.2	193	10	e1000	146	45	4.1	14	13	e4.2	e2.0
19	1.0	1.9	115	632	e560	124	40	19	9.7	24	e3.8	e1.8
20	1.0	1.8	70	559	e330	151	36	37	7.3	16	e3.7	e1.9
21	1.2	1.6	52	238	e200	404	33	22	6.0	37	e3.6	e1.9
22	1.7	1.4	e42	159	e130	444	29	120	7.1	13	e3.2	e1.8
23	2.1	1.3	e34	125	e160	291	26	89	9.2	9.6	e3.0	e1.7
24	1.9	1.3	e28	e100	146	216	24	52	9.0	6.9	e3.3	e1.6
25	2.0	1.6	e24	e83	368	166	20	60	7.3	5.0	e3.7	e1.7
26	1.9	2.0	e21	e68	332	130	18	34	5.9	6.6	e3.2	e1.7
27	1.7	2.4	e17	e57	232	106	17	23	4.9	18	e2.8	e1.6
28	1.7	2.3	e16	e48	178	88	15	17	4.2	19	e2.6	e1.4
29	1.8	2.3	e15	e42	---	79	13	13	3.9	665	e3.0	e1.2
30	1.7	2.6	e14	117	---	73	12	9.9	3.8	328	e3.8	e1.1
31	1.4	---	e13	132	---	70	---	8.3	---	115	e4.2	---
TOTAL	37.88	81.00	2541.9	2550.8	8637	4634	2031	694.9	625.0	1393.2	408.9	76.2
MEAN	1.22	2.70	82.0	82.3	308	149	67.7	22.4	20.8	44.9	13.2	2.54
MAX	2.1	12	995	632	2200	444	208	120	98	665	55	11
MIN	.57	.83	1.9	8.2	34	69	12	4.1	3.8	1.8	2.6	1.1
CFSM	.02	.03	1.06	1.06	3.99	1.93	.88	.29	.27	.58	.17	.03
IN.	.02	.04	1.22	1.23	4.16	2.23	.98	.33	.30	.67	.20	.04

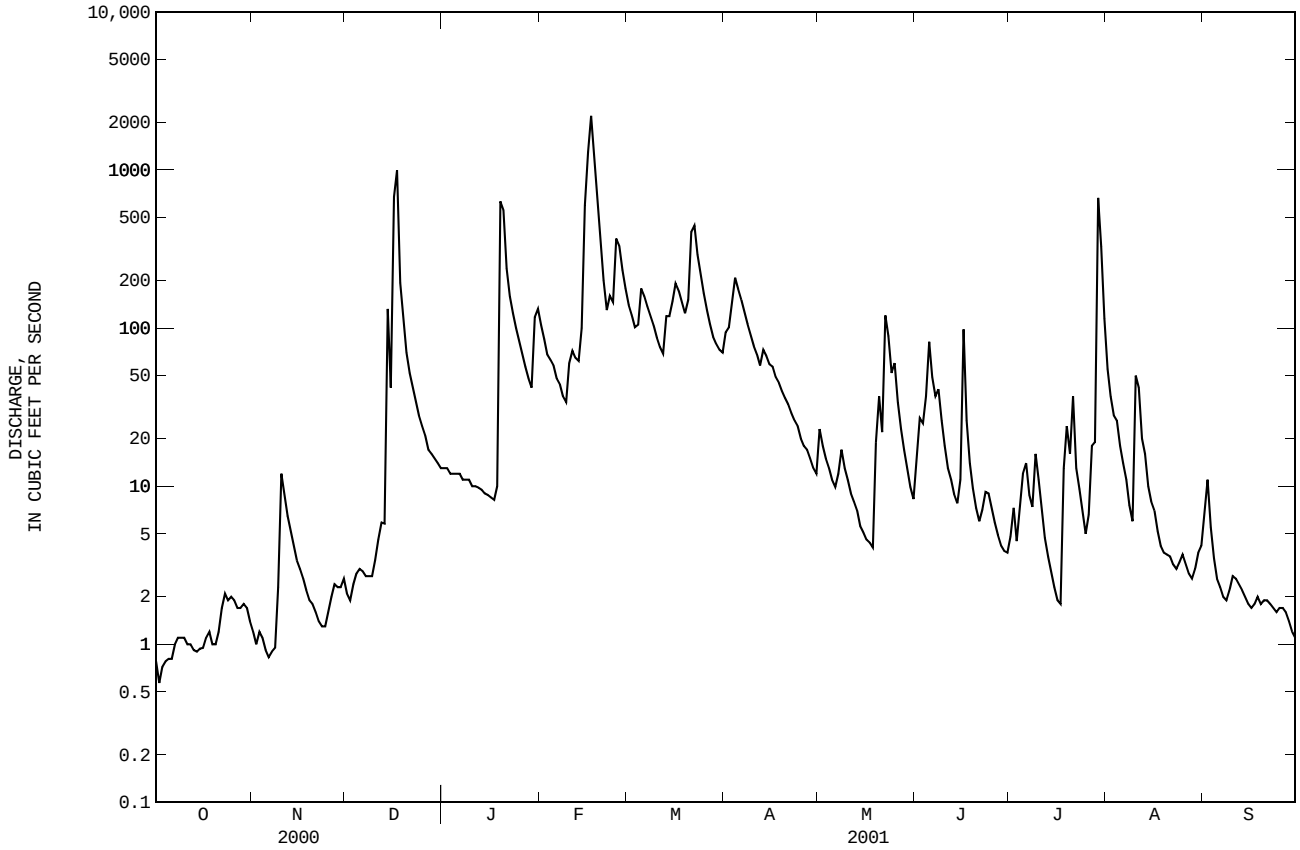
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2001, BY WATER YEAR (WY)

MEAN	27.0	67.6	104	218	206	258	179	123	95.5	24.4	14.5	12.6
MAX	108	246	193	403	484	540	441	345	304	53.3	29.3	59.5
(WY)	1997	1997	1994	1994	1994	1994	1998	1995	1997	2000	1994	1996
MIN	1.22	2.70	16.8	30.3	92.0	85.7	49.6	22.4	2.20	1.22	.11	.30
(WY)	2001	2001	2000	2000	1997	2000	1997	2001	1999	1999	1999	1999

03282040 STURGEON CREEK AT CRESSMONT, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1993 - 2001	
ANNUAL TOTAL	21472.59		23711.78			
ANNUAL MEAN	58.7		65.0		110	
HIGHEST ANNUAL MEAN					195	1994
LOWEST ANNUAL MEAN					53.4	2000
HIGHEST DAILY MEAN	1400	Apr 4	2200	Feb 17	4230	Mar 3 1997
LOWEST DAILY MEAN	.33	Sep 19	.57	Oct 2	.00	Aug 18 1999
ANNUAL SEVEN-DAY MINIMUM	.44	Sep 18	.78	Oct 1	.00	Aug 18 1999
MAXIMUM PEAK FLOW			3170	Feb 17	8340	Jan 9 1999
MAXIMUM PEAK STAGE			9.91	Feb 17	14.84	Jan 9 1999
INSTANTANEOUS LOW FLOW					.00	Aug 18 1999
ANNUAL RUNOFF (CFSM)	.76		.84		1.43	
ANNUAL RUNOFF (INCHES)	10.33		11.41		19.39	
10 PERCENT EXCEEDS	141		146		256	
50 PERCENT EXCEEDS	15		11		37	
90 PERCENT EXCEEDS	1.1		1.5		1.8	

e Estimated



03282500 RED RIVER NEAR HAZEL GREEN, KY

LOCATION.--Lat 37°48'44", long 83°27'50", Wolfe County, Hydrologic Unit 05100204, on right bank 600 ft upstream from Buck Creek, 0.3 mi downstream from Chapel Branch, 2.7 mi northwest of Hazel Green, and at mile 72.7.

DRAINAGE AREA.--65.8 mi^2.

PERIOD OF RECORD.--April 1954 to current year.

REVISED RECORDS.--WRD KY 72-1: 1971.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 870.11 ft NGVD of 1929.

REMARKS.--Records fair except for daily discharges below 2.0 ft^3/s and for those estimated, which are poor.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	2245	1,490	6.40	Jun 7	1715	1,270	5.51
Feb 17	0430	1,170	5.26	Jul 29	1445	*2,100	*8.10

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	1.0	4.0	e25	105	95	62	20	22	10	127	13
2	4.6	.86	3.6	e23	85	91	78	20	26	10	76	18
3	3.9	.83	4.0	e22	68	78	108	20	23	10	60	8.2
4	3.0	.76	4.1	e20	62	85	144	17	21	14	58	5.9
5	2.7	.84	4.1	e19	58	196	128	15	24	53	44	4.5
6	2.5	.91	4.2	e18	51	184	111	13	22	31	36	3.9
7	2.3	1.4	4.3	e16	47	147	93	12	745	21	30	3.3
8	1.9	1.1	4.4	e15	43	121	78	12	594	92	22	3.1
9	1.4	3.5	4.3	e14	41	101	69	14	192	e270	19	3.9
10	1.5	29	5.0	e13	64	82	61	11	99	e110	135	5.2
11	1.6	18	4.9	e13	72	71	69	10	63	e50	117	5.1
12	1.4	9.5	5.0	e12	66	64	58	10	46	32	48	4.9
13	1.4	7.7	5.4	e12	62	126	73	9.9	39	23	35	4.5
14	1.4	6.3	79	e12	60	140	87	9.1	29	19	23	3.9
15	1.4	5.4	62	e11	309	133	80	8.0	26	14	19	3.4
16	1.5	3.9	423	e11	734	145	72	7.2	72	10	16	2.9
17	1.5	3.9	1210	e11	989	128	62	6.8	39	10	12	2.9
18	2.3	3.7	282	e11	405	109	58	10	25	24	10	3.0
19	1.7	3.5	148	290	236	93	51	42	20	26	9.7	2.6
20	1.1	3.4	97	515	165	85	46	73	16	39	9.2	2.8
21	1.2	3.5	e74	e200	125	119	43	36	28	22	9.0	2.8
22	3.7	2.8	e62	e130	102	167	40	118	23	113	7.9	2.4
23	2.7	2.5	e54	e100	91	148	38	125	22	63	7.3	2.1
24	1.5	2.7	e47	e86	77	124	33	66	19	35	7.9	2.0
25	1.3	3.2	e42	e74	113	104	30	77	14	24	8.2	2.4
26	1.4	4.3	e38	e66	144	84	26	53	22	139	7.3	2.4
27	1.3	4.6	e35	e60	125	70	24	45	24	473	6.3	2.3
28	1.3	4.7	e33	e58	113	61	23	45	17	397	5.9	1.9
29	1.3	4.4	e31	56	---	56	21	39	13	1550	6.8	1.7
30	1.2	4.1	e29	114	---	54	20	26	11	999	8.5	1.4
31	1.6	---	e27	131	---	53	---	21	---	260	9.1	---
TOTAL	62.9	142.30	2830.3	2158	4612	3314	1886	991.0	2336	4943	990.1	126.4
MEAN	2.03	4.74	91.3	69.6	165	107	62.9	32.0	77.9	159	31.9	4.21
MAX	5.3	29	1210	515	989	196	144	125	745	1550	135	18
MIN	1.1	.76	3.6	11	41	53	20	6.8	11	10	5.9	1.4
CFSM	.03	.07	1.39	1.06	2.50	1.62	.96	.49	1.18	2.42	.49	.06
IN.	.04	.08	1.60	1.22	2.61	1.87	1.07	.56	1.32	2.79	.56	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2001, BY WATER YEAR (WY)

MEAN	16.0	49.0	111	131	175	191	153	96.4	47.0	33.8	25.5	13.7
MAX	138	227	555	357	555	523	472	318	351	159	141	180
(WY)	1990	1986	1979	1974	1989	1955	1972	1983	1997	2001	1974	1974
MIN	.22	.54	2.76	17.5	27.6	49.1	16.6	13.9	1.19	.99	.27	.048
(WY)	1964	1956	1964	1981	1968	1969	1986	1986	1988	1999	1957	1999

03282500 RED RIVER NEAR HAZEL GREEN, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1954 - 2001	
ANNUAL TOTAL	23489.40		24392.00			
ANNUAL MEAN	64.2		66.8		86.7	
HIGHEST ANNUAL MEAN					153	1994
LOWEST ANNUAL MEAN					39.6	1969
HIGHEST DAILY MEAN	1210	Dec 17	1550	Jul 29	6170	Dec 9 1978
LOWEST DAILY MEAN	.76	Nov 4	.76	Nov 4	.00	Sep 14 1954
ANNUAL SEVEN-DAY MINIMUM	.94	Nov 1	.94	Nov 1	.00	Sep 12 1955
MAXIMUM PEAK FLOW			2100	Jul 29	9080	Feb 27 1962
MAXIMUM PEAK STAGE			8.10	Jul 29	22.12	Feb 27 1962
INSTANTANEOUS LOW FLOW					.00	Sep 14 1954
ANNUAL RUNOFF (CFSM)	.98		1.02		1.32	
ANNUAL RUNOFF (INCHES)	13.28		13.79		17.90	
10 PERCENT EXCEEDS	136		129		198	
50 PERCENT EXCEEDS	31		23		30	
90 PERCENT EXCEEDS	2.8		2.3		1.4	

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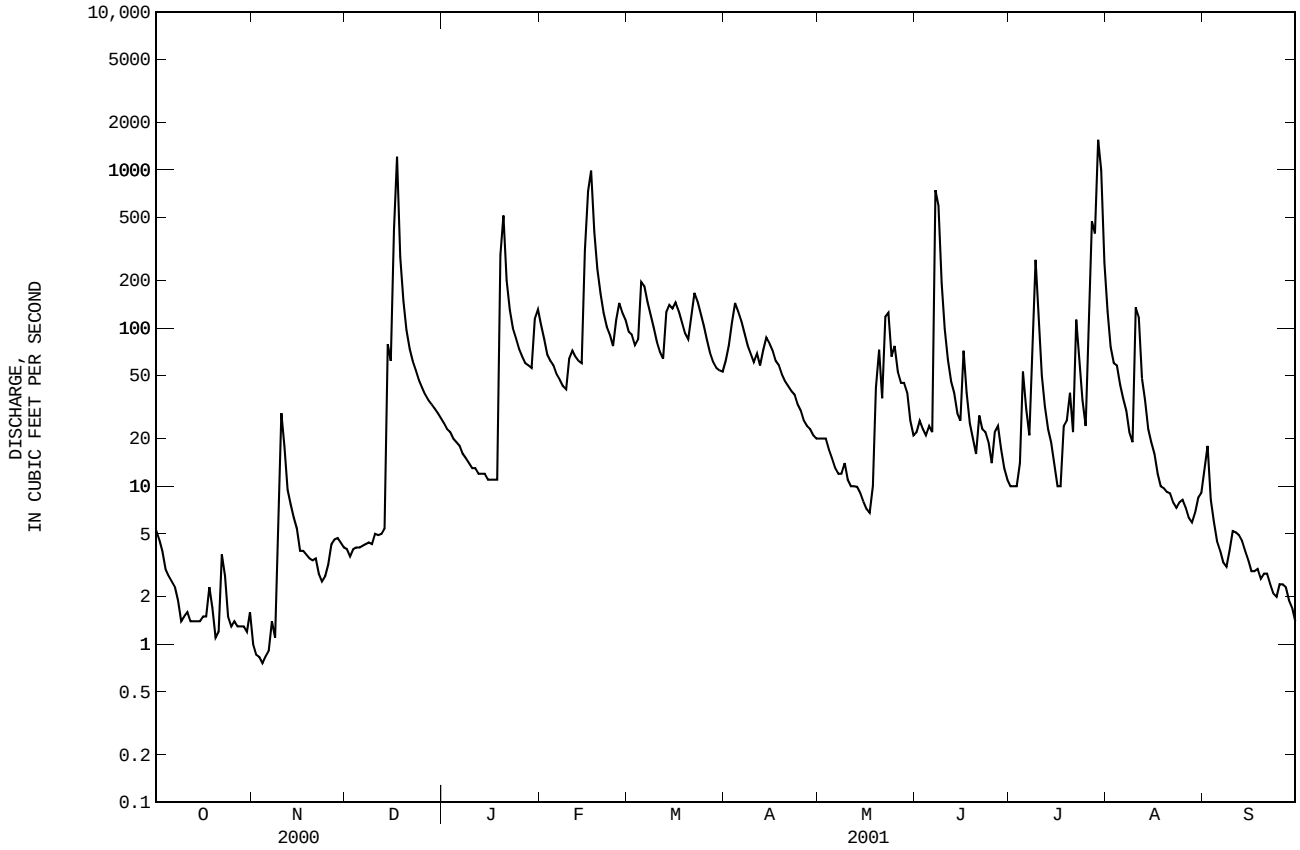

03283500 RED RIVER AT CLAY CITY, KY

LOCATION.--Lat 37°51'53", long 83°56'01", Powell County, Hydrologic Unit 05100204, on right bank 25 ft upstream from bridge on State Highway 15, 0.1 mi downstream from Skinner Branch, 0.4 mi upstream from Brush Creek, 0.5 mi west of Clay City, and at mile 21.6.

DRAINAGE AREA.--362 mi^2.

PERIOD OF RECORD.--October 1930 to March 1932, April 1938 to current year. Monthly discharge only for October 1930, published in WSP 1305.

REVISED RECORDS.--WSP 1275: 1931-32. WSP 1385: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 600.47 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Aug. 14, 1939, nonrecording gages, Aug. 14, 1939, to Aug. 13, 1975, water-stage recorder at site 50 ft downstream at same datum.

REMARKS.--Records fair except for those estimated which are poor. Flow diversions by Clay City Water Plant, which can be significant during low-flow periods.

COOPERATION.--U.S. Army Corps of Engineers, Louisville District and Kentucky River Authority.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 18	0700	5,380	15.05	Jul 30	1500	*10,100	*18.59

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	26	30	e93	534	483	419	97	130	49	1120	62
2	51	25	29	e88	436	437	566	123	183	46	598	73
3	46	27	30	e83	371	411	602	101	160	46	611	68
4	41	29	31	e80	325	644	727	90	161	620	784	67
5	39	27	32	e77	305	1380	618	80	188	778	522	56
6	36	27	30	e75	282	1020	536	73	166	324	395	49
7	33	27	30	e73	252	749	474	68	807	183	308	45
8	33	25	30	e72	226	598	419	70	2930	243	249	41
9	30	e55	29	e70	211	509	375	79	1140	2130	219	38
10	29	e190	30	e69	384	436	340	83	560	914	e440	36
11	28	205	31	e68	383	387	320	69	386	451	e1100	33
12	27	117	32	e67	334	353	309	60	283	292	e800	31
13	27	80	38	e66	311	386	280	56	218	204	e590	30
14	27	61	245	e65	320	503	295	51	171	152	418	28
15	27	51	362	e64	1260	464	291	46	182	118	313	26
16	26	45	714	e63	3210	485	270	43	494	94	245	26
17	26	40	3960	e62	4240	490	245	41	349	79	200	26
18	26	37	4000	e72	3050	432	230	89	202	136	168	25
19	28	35	776	543	1170	389	214	253	139	249	146	26
20	34	32	490	2010	802	433	192	324	108	207	131	26
21	39	30	362	1070	612	1330	181	336	89	159	114	31
22	45	28	292	583	501	1260	170	747	88	199	99	31
23	64	27	214	471	450	868	156	732	111	390	88	28
24	72	27	e190	444	405	673	143	445	97	260	81	27
25	51	29	e170	405	664	550	132	641	82	175	80	26
26	39	30	e150	347	849	460	122	428	68	667	75	29
27	37	32	e140	329	649	401	114	309	62	2270	68	30
28	34	33	e130	302	554	356	112	262	70	1860	63	26
29	30	33	e120	272	---	327	108	204	64	4480	59	22
30	29	31	e110	475	---	308	96	152	55	9360	57	20
31	28	---	e100	686	---	292	---	117	---	6350	61	---
TOTAL	1142	1461	12927	9244	23090	17814	9056	6269	9743	33485	10202	1082
MEAN	36.8	48.7	417	298	825	575	302	202	325	1080	329	36.1
MAX	72	205	4000	2010	4240	1380	727	747	2930	9360	1120	73
MIN	26	25	29	62	211	292	96	41	55	46	57	20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2001, BY WATER YEAR (WY)

MEAN	85.3	265	597	776	1000	1067	818	529	302	275	181	104
MAX	928	1220	3036	2634	3564	3048	2406	1943	2246	1845	1179	1185
(WY)	1990	1987	1979	1950	1989	1955	1972	1995	1997	1938	1938	1974
MIN	4.41	9.75	19.7	43.2	127	258	110	54.6	23.9	5.01	18.2	6.15
(WY)	1964	1954	1954	1931	1954	1969	1986	1941	1988	1944	1957	1984

03283500 RED RIVER AT CLAY CITY, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1931 - 2001	
ANNUAL TOTAL	114183		135515			
ANNUAL MEAN	312		371		493	
HIGHEST ANNUAL MEAN					884	1989
LOWEST ANNUAL MEAN					158	1941
HIGHEST DAILY MEAN	4000	Dec 18	9360	Jul 30	26100	Dec 9 1978
LOWEST DAILY MEAN	23	Sep 20	20	Sep 30	1.2	Aug 10 1944
ANNUAL SEVEN-DAY MINIMUM	27	Oct 12	26	Sep 24	2.0	Oct 2 1930
MAXIMUM PEAK FLOW			10100	Jul 30	28800	Dec 9 1978
MAXIMUM PEAK STAGE			18.59	Jul 30	26.75	Dec 9 1978
INSTANTANEOUS LOW FLOW					1.2	Aug 10 1944
10 PERCENT EXCEEDS	740		719		1170	
50 PERCENT EXCEEDS	138		143		181	
90 PERCENT EXCEEDS	30		29		22	

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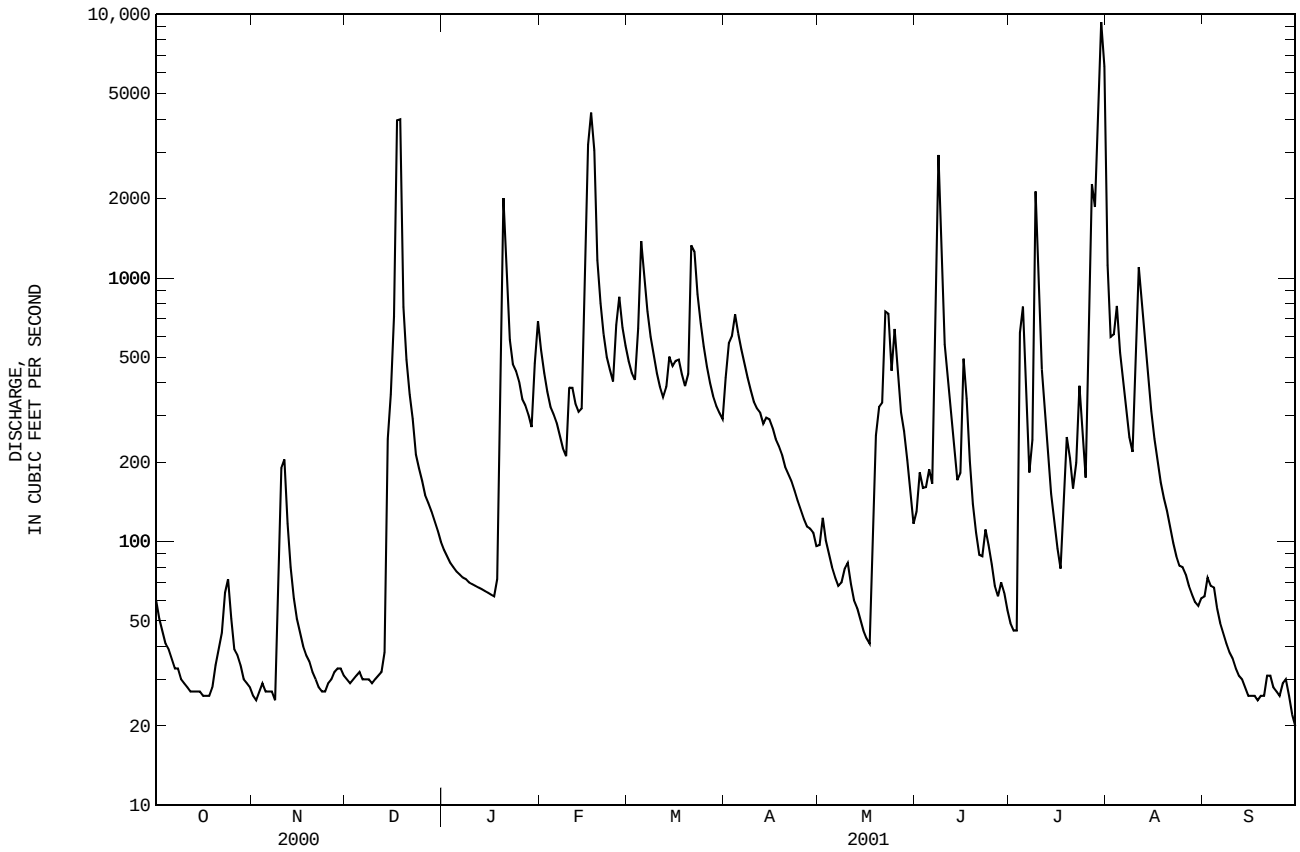


03284000 KENTUCKY RIVER AT LOCK 10 NEAR WINCHESTER, KY

LOCATION.--Lat 37°53'41", long 84°15'44", Madison County, Hydrologic Unit 05100205, on left bank at lock 10, 0.9 mi downstream from Otter Creek, 8.0 mi southwest of Winchester, and at mile 176.4.

DRAINAGE AREA.--3,955 mi^2.

PERIOD OF RECORD.--October 1907 to current year.

REVISED RECORDS.--WSP 1275: 1908-52. 1955: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 557.37 ft above sea level (Ohio River datum). Feb. 2, 1940 to Aug. 10, 1943, water-stage recorder 1.1 mi upstream at different datum. Aug. 11, 1943 to June 12, 1978, nonrecording gage at present site and datum.

REMARKS.--Records fair. Flow regulated since January 1976 by Carr Fork Lake (station 03277446), since December 1960 by Buckhorn Lake (station 03280800).

COOPERATION.--Kentucky River Authority and U.S. Army Corps of Engineers, Louisville District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

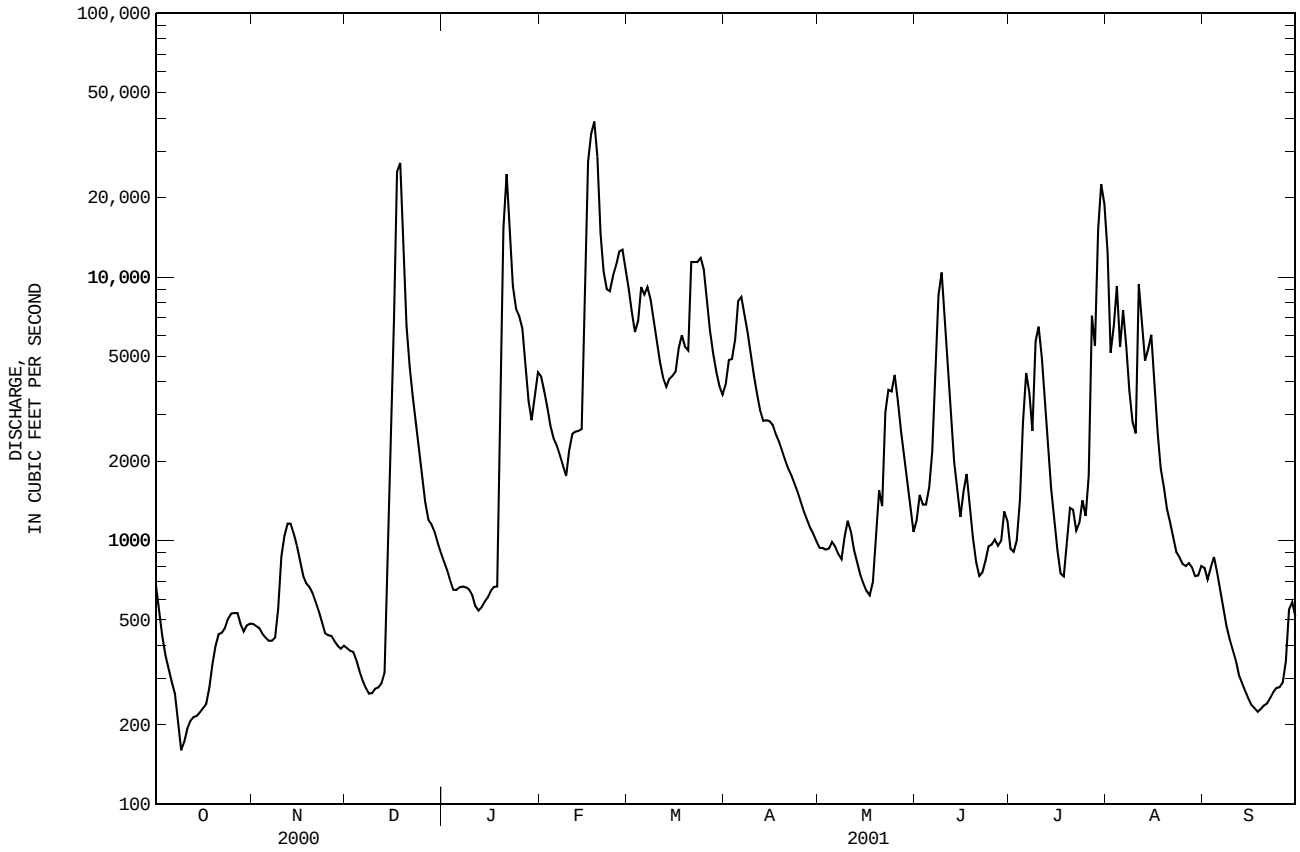
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	671	483	391	832	4200	9010	3910	939	1190	932	12400	788
2	533	474	382	774	3690	7390	4840	937	1490	907	5160	713
3	433	465	378	704	3210	6180	4880	923	1370	1000	6550	790
4	366	443	352	650	2720	6830	5780	933	1370	1420	9250	866
5	325	428	319	650	2450	9170	8090	987	1590	2800	5430	760
6	291	417	295	665	2300	8580	8400	949	2180	4320	7480	654
7	262	417	276	670	2110	9160	7210	891	4070	3640	5430	559
8	203	429	263	665	1930	8200	6160	850	8520	2610	3700	474
9	160	551	264	653	1760	6870	5080	1040	10400	5710	2820	425
10	172	868	274	621	2200	5670	4250	1190	6540	6480	2550	386
11	194	1040	277	565	2540	4770	3600	1080	4030	4950	9390	350
12	207	1160	287	543	2590	4150	3130	922	2710	3350	6760	309
13	214	1160	315	559	2610	3830	2850	823	1990	2210	4820	288
14	216	1060	1190	586	2650	4110	2860	744	1560	1580	5340	269
15	223	958	3480	609	10500	4220	2840	688	1230	1190	6040	252
16	231	834	6910	645	27400	4370	2750	645	1540	913	3930	238
17	240	734	25000	668	34900	5400	2540	620	1790	750	2560	231
18	277	689	27100	670	38900	6010	2380	696	1350	731	1880	224
19	339	667	13800	2260	28700	5440	2200	1070	1030	970	1590	230
20	399	632	6570	15400	14600	5270	2020	1550	832	1330	1320	237
21	441	585	4570	24600	10500	11400	1880	1350	734	1310	1170	241
22	447	540	3530	15500	8990	11400	1770	3070	756	1090	1030	253
23	467	489	2820	9240	8840	11400	1640	3730	840	1170	903	266
24	505	445	2240	7580	10100	11800	1530	3680	951	1420	867	276
25	529	437	1760	7130	11100	10700	1400	4250	967	1240	816	278
26	531	435	1400	6390	12500	8020	1290	3400	1010	1760	801	290
27	531	415	1200	4570	12700	6250	1200	2600	957	7130	821	348
28	483	399	1150	3390	10800	5120	1120	2100	1000	5470	791	547
29	452	389	1080	2860	---	4350	1060	1670	1290	15200	733	584
30	477	399	980	3570	---	3860	997	1330	1190	22500	737	516
31	484	---	901	4350	---	3580	---	1080	---	18900	801	---
TOTAL	11303	18442	109754	118569	277490	212510	99657	46737	66477	124983	113870	12642
MEAN	365	615	3540	3825	9910	6855	3322	1508	2216	4032	3673	421
MAX	671	1160	27100	24600	38900	11800	8400	4250	10400	22500	12400	866
MIN	160	389	263	543	1760	3580	997	620	734	731	733	224

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2001, BY WATER YEAR (WY)

MEAN	1482	3252	6808	8607	9967	11950	9233	6482	3436	1807	1530	1132
MAX	12850	10270	23400	25490	25060	27650	26100	19600	15220	4640	4916	6676
(WY)	1990	1987	1979	1974	1989	1975	1972	1984	1997	1992	1992	1974
MIN	177	372	416	446	2011	3125	1177	1031	265	292	258	102
(WY)	1970	1964	1966	1981	1968	1988	1986	1976	1988	1970	1986	1999

03284000 KENTUCKY RIVER AT LOCK 10 NEAR WINCHESTER, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1961 - 2001	
ANNUAL TOTAL	1076374		1212434			
ANNUAL MEAN	2941		3322		5453	
HIGHEST ANNUAL MEAN					9815	1994
LOWEST ANNUAL MEAN					2228	1988
HIGHEST DAILY MEAN	27100	Dec 18	38900	Feb 18	99100	Dec 10 1978
LOWEST DAILY MEAN	160	Oct 9	160	Oct 9	22	Oct 1 1999
ANNUAL SEVEN-DAY MINIMUM	195	Oct 8	195	Oct 8	72	Sep 7 1999
MAXIMUM PEAK FLOW			39500	Feb 18	101000	Dec 10 1978
MAXIMUM PEAK STAGE			20.09	Feb 18	40.15	Dec 10 1978
10 PERCENT EXCEEDS	7210		8680		13900	
50 PERCENT EXCEEDS	1420		1190		2340	
90 PERCENT EXCEEDS	350		317		335	



03284230 KENTUCKY RIVER AT LOCK 9 AT VALLEY VIEW, KY

LOCATION.--Lat 37°50'36", long 84°26'27", Madison County, Hydrologic Unit 05100205, At Lock and Dam no. 9 at Valley View, 1.0 mi below Tate Creek, and at mile 157.9.

DRAINAGE AREA.--4,101 mi^2.

PERIOD OF RECORD.--October 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 538.71 ft above NGVD of 1929.

REMARKS.--Records fair.

COOPERATION.--Kentucky River Authority.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

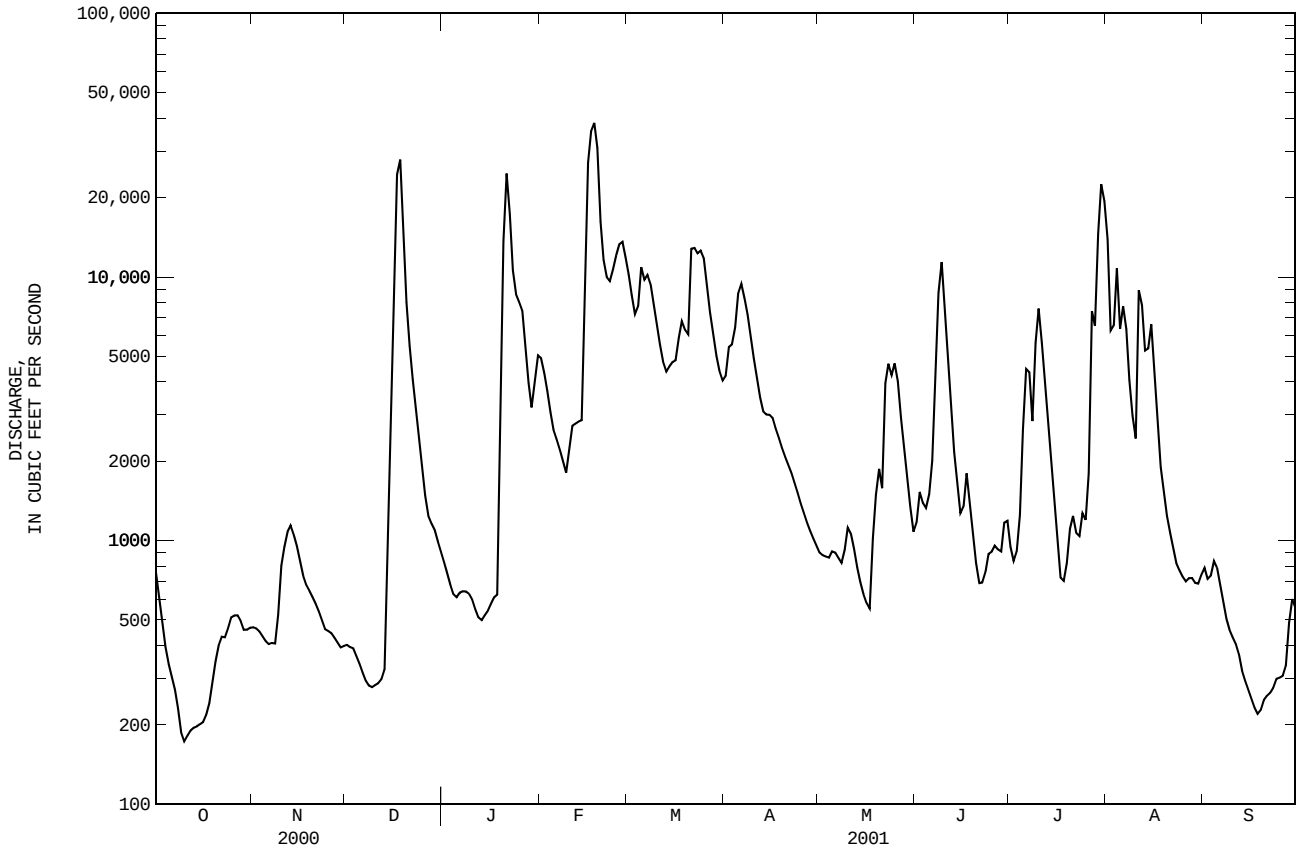
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	752	469	402	829	4920	10200	4220	900	1170	947	13900	787
2	589	464	394	755	4330	8520	5420	880	1530	836	6270	716
3	481	452	390	681	3700	7220	5550	870	1390	910	6570	736
4	394	434	365	627	3070	7760	6430	861	1330	1250	10800	838
5	340	416	341	610	2630	10900	8640	910	1500	2650	6360	790
6	304	405	316	634	2420	9780	9410	901	2010	4480	7750	680
7	272	409	294	642	2210	10200	8290	861	4240	4350	6350	589
8	231	407	282	641	2010	9380	7200	823	8700	2840	4070	504
9	187	523	278	628	1810	7990	5980	924	11400	5640	2970	459
10	173	804	283	597	2240	6700	4900	1120	7950	7590	2440	430
11	182	947	288	550	2730	5560	4120	1060	4930	5640	8910	405
12	190	1080	298	511	2780	4770	3500	933	3150	3710	7820	370
13	195	1140	324	499	2830	4380	3090	792	2170	2420	5260	320
14	197	1050	1080	521	2860	4580	3010	698	1630	1670	5360	294
15	201	954	3360	542	9650	4760	3000	627	1270	1210	6610	271
16	205	836	7660	575	27200	4830	2920	581	1350	911	4440	251
17	218	734	24500	609	35700	5880	2660	552	1800	724	2790	232
18	242	678	27900	624	38400	6810	2450	1020	1400	703	1900	220
19	288	644	16100	1870	30900	6310	2250	1490	1060	820	1530	228
20	349	611	8020	13700	16200	6060	2080	1870	821	1110	1240	249
21	399	576	5460	24700	11600	12800	1940	1580	690	1240	1070	258
22	432	540	4100	17300	9990	12900	1810	3950	693	1070	945	265
23	430	500	3180	10600	9650	12300	1650	4690	761	1040	820	277
24	464	461	2440	8610	10700	12600	1520	4250	890	1270	772	299
25	511	454	1920	8050	12100	11800	1380	4700	908	1200	730	302
26	520	445	1480	7450	13300	9290	1270	4020	957	1800	700	307
27	521	428	1240	5510	13600	7350	1170	2910	926	7420	720	335
28	497	410	1160	3970	11900	6040	1090	2270	909	6530	721	486
29	459	393	1100	3200	---	5030	1020	1740	1170	14600	692	600
30	459	398	994	3960	---	4410	960	1340	1190	22500	687	559
31	467	---	910	5040	---	4050	---	1080	---	19400	741	---
TOTAL	11149	18062	116859	125035	291430	241160	108930	51203	69895	128481	121938	13057
MEAN	360	602	3770	4033	10410	7779	3631	1652	2330	4145	3933	435
MAX	752	1140	27900	24700	38400	12900	9410	4700	11400	22500	13900	838
MIN	173	393	278	499	1810	4050	960	552	690	703	687	220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	308	513	2543	2743	8811	6175	6369	2142	2193	3865	2907	546
MAX	360	602	3770	4033	10410	7779	9108	2633	2330	4145	3933	656
(WY)	2001	2001	2001	2001	2001	2001	2000	2000	2001	2001	2001	2000
MIN	256	423	1317	1452	7269	4572	3631	1652	2056	3585	1880	435
(WY)	2000	2000	2000	2000	2000	2000	2001	2001	2000	2000	2000	2001

03284230 KENTUCKY RIVER AT LOCK 9 AT VALLEY VIEW, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	1149233		1297199			
ANNUAL MEAN	3140		3554		3231	
HIGHEST ANNUAL MEAN					3554	2001
LOWEST ANNUAL MEAN					2909	2000
HIGHEST DAILY MEAN	27900	Dec 18	38400	Feb 18	38400	Feb 18 2001
LOWEST DAILY MEAN	173	Oct 10	173	Oct 10	9.7	Sep 19 1999
ANNUAL SEVEN-DAY MINIMUM	189	Oct 9	189	Oct 9	9.8	Sep 13 1999
MAXIMUM PEAK FLOW			39000	Feb 18	39000	Feb 18 2001
MAXIMUM PEAK STAGE			21.39	Feb 18	21.39	Feb 18 2001
10 PERCENT EXCEEDS	8010		9510		8180	
50 PERCENT EXCEEDS	1380		1170		1170	
90 PERCENT EXCEEDS	352		331		251	



03284520 EAST HICKMAN CREEK AT ANDOVER VILLAGE NEAR CADENTOWN, KY

LOCATION.--Lat 37°59'50", long 84°24'20", Fayette County, Hydrologic Unit 05100205, on right wingwall, downstream side of culvert in Andover Village, 1.6 mi west of intersection of Todds Road and Walnut Hill-Chilesbug Road, and at mile 12.4.

DRAINAGE AREA.--1.58 mi^2.

PERIOD OF RECORD.--October 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 980 ft above NGVD of 1929 (from topographic map).

REMARKS.--Records good except for most of December, early January, and estimated period, which are poor.

COOPERATION.--Lexington-Fayette Urban County Government.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	.07	.12	.34	2.4	1.8	3.2	.24	2.9	.14	.57	.16
2	.26	.07	.13	.28	1.7	1.5	1.6	.20	.89	.12	.41	.12
3	.20	.08	.37	.23	1.2	1.2	3.3	.19	.57	1.9	16	.13
4	.16	.07	.36	.21	1.0	12	2.0	.20	1.7	6.3	13	.24
5	.14	.06	.26	.21	.88	8.2	1.6	.22	.64	.76	5.2	.18
6	.14	.13	.22	.22	.74	4.8	1.3	.58	.60	.23	1.9	.13
7	.13	.45	.17	.25	.61	3.4	1.1	.71	.41	.18	.80	.12
8	.12	.26	.14	.28	.58	2.4	.93	1.6	.34	.27	.58	.10
9	.11	5.9	.17	.25	2.1	1.7	.81	.56	.27	1.4	.49	.08
10	.11	1.8	.19	.23	3.1	1.3	.71	.36	.24	.26	.42	.07
11	.11	.60	.22	.21	1.7	1.2	.67	.30	.21	.18	2.4	.06
12	.11	.26	.28	.21	1.3	1.8	.56	.70	.19	.14	2.9	.05
13	.10	.20	2.5	.20	1.1	2.7	.52	.33	.18	.12	.50	.04
14	.35	.14	5.6	.25	3.5	1.6	.48	.27	.17	.12	.36	.05
15	.54	.09	2.5	.33	12	1.3	.69	.24	.27	.12	.28	.04
16	.14	.08	22	.31	18	1.5	.57	.22	.31	.12	.24	.01
17	.15	.06	14	.29	11	1.2	.51	1.1	.24	.14	.36	.00
18	.14	.05	6.3	.35	5.9	.93	.45	7.3	.21	4.0	.22	.00
19	.10	.05	4.4	6.1	4.3	.83	.38	21	.18	1.1	.18	1.4
20	.10	.03	2.9	4.4	3.2	4.7	.51	6.3	.15	.34	.16	1.7
21	.14	.01	2.1	2.6	2.2	13	.41	6.3	.17	.26	.15	.20
22	.26	.00	e1.5	1.8	2.0	6.0	.35	18	.94	.45	.13	.17
23	.17	.01	e1.14	1.4	1.6	4.1	.35	6.6	.28	.36	.13	.13
24	.46	.01	.95	1.2	1.3	2.9	.33	5.8	.24	.24	.13	.50
25	.71	1.4	.74	1.1	9.4	2.0	.30	3.3	.22	.24	.13	.23
26	.16	.65	.62	.93	4.8	1.5	.26	1.7	.22	20	.14	.17
27	.14	.41	.60	.90	3.3	1.2	.25	1.6	.19	8.8	.15	.14
28	.13	.25	.62	.78	2.4	1.1	.21	.86	.18	3.5	.12	.11
29	.11	.18	.58	1.6	---	.96	.20	.66	.17	10	.11	.07
30	.10	.12	.52	5.4	---	.88	.20	.48	.16	6.7	.09	.05
31	.08	---	.44	3.7	---	.93	---	.44	---	1.9	.10	---
TOTAL	5.95	13.49	72.64	36.56	103.31	90.63	24.75	88.36	13.44	70.39	48.35	6.45
MEAN	.19	.45	2.34	1.18	3.69	2.92	.82	2.85	.45	2.27	1.56	.21
MAX	.71	5.9	22	6.1	18	13	3.3	21	2.9	20	16	1.7
MIN	.08	.00	.12	.20	.58	.83	.20	.19	.15	.12	.09	.00

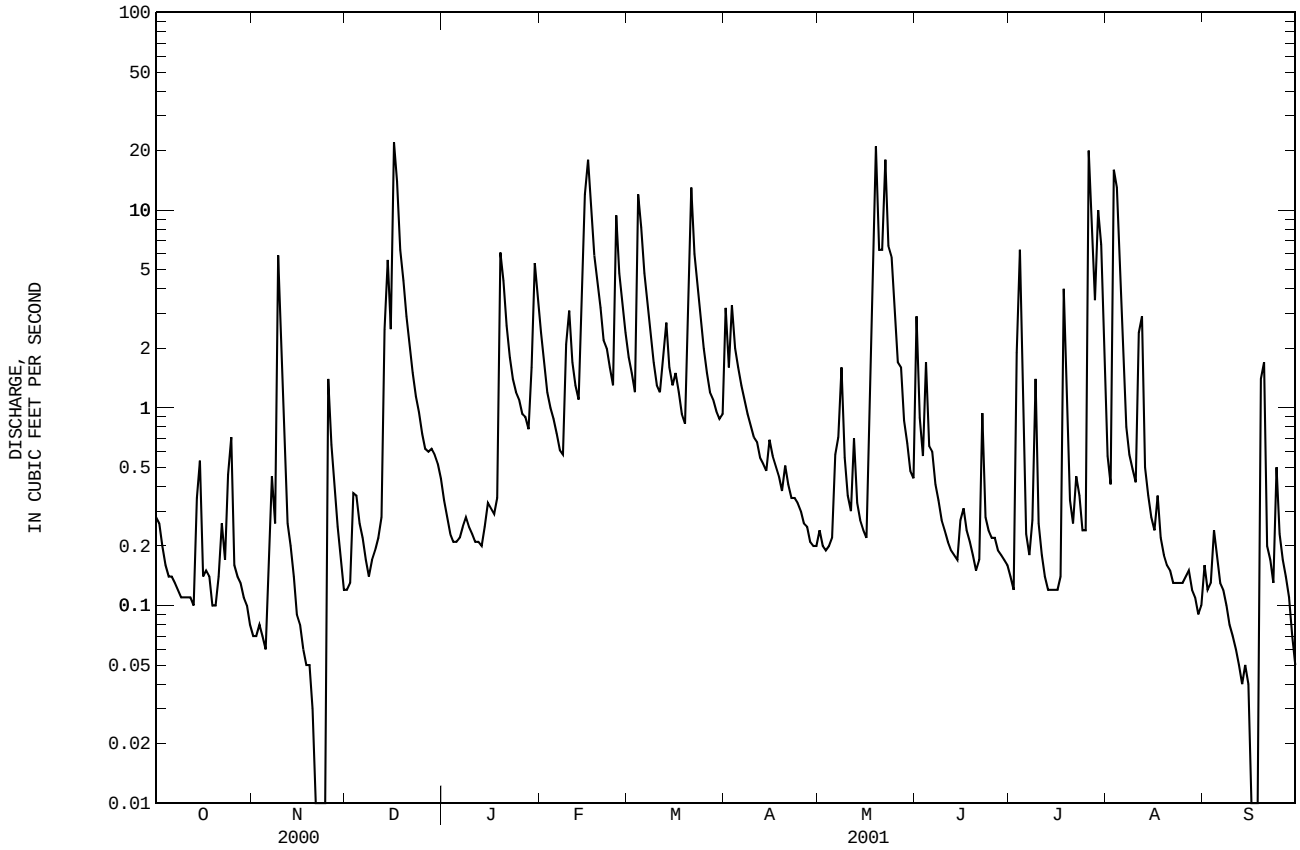
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	.68	.53	1.53	3.25	3.94	3.33	2.37	1.90	2.18	2.17	.48	.63
MAX	1.57	.93	2.34	5.69	4.96	4.39	5.34	3.87	6.73	4.78	1.56	2.20
(WY)	2000	1998	2001	1998	1998	1999	1998	1998	1998	1998	2001	2000
MIN	.19	.37	1.02	1.18	3.53	2.82	.82	.31	.41	.57	.046	.013
(WY)	2001	1999	2000	2001	2000	1998	2001	1999	1999	1999	1999	1999

03284520 EAST HICKMAN CREEK AT ANDOVER VILLAGE NEAR CADENTOWN, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001	
ANNUAL TOTAL	547.36		574.32			
ANNUAL MEAN	1.50		1.57		1.90	
HIGHEST ANNUAL MEAN					3.07	1998
LOWEST ANNUAL MEAN					1.48	1999
HIGHEST DAILY MEAN	41	Feb 18	22	Dec 16	59	Jul 20 1998
LOWEST DAILY MEAN	.00	Aug 26	.00	Nov 22	.00	Sep 20 1998
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 29	.02	Nov 18	.00	Aug 31 1999
MAXIMUM PEAK FLOW			104	May 19	205	Jul 20 1998
MAXIMUM PEAK STAGE			3.64	May 19	4.63	Jul 20 1998
INSTANTANEOUS LOW FLOW					.00	Oct 1 1999
10 PERCENT EXCEEDS	4.0		4.3		4.9	
50 PERCENT EXCEEDS	.36		.36		.42	
90 PERCENT EXCEEDS	.06		.11		.05	

e Estimated



03284530 EAST HICKMAN CREEK AT DELONG ROAD NEAR EAST HICKMAN, KY

LOCATION.--Lat 37°56'59", long 84°27'19", Fayette County, Hydrologic Unit 05100205, on right bank, downstream side of bridge on Delong Road, 1.0 mi north of intersection with Walnut Hill Road, 1.6 mi south of intersection with Armstrong Mill Road, 2.0 mi north of East Hickman, and at mile 7.6.

DRAINAGE AREA.--15.1 mi^2.

PERIOD OF RECORD.--October 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage is 913.491 ft above NGVD of 1929.

REMARKS.--Records fair except for those estimated and those below 1.0 ft^3/s, which are poor.

COOPERATION.--Lexington-Fayette Urban County Government.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	.74	.70	e3.9	29	17	28	1.3	26	1.6	10	2.0
2	1.1	.75	1.2	e3.7	22	16	27	1.2	21	1.7	4.1	1.3
3	1.0	.90	1.7	e3.5	17	15	32	2.3	12	1.8	127	1.1
4	.98	.65	1.4	e3.3	14	97	21	2.6	24	3.6	84	1.4
5	1.0	1.7	.93	e3.1	12	107	12	1.4	20	2.8	30	1.2
6	1.4	.82	.86	e2.9	11	54	19	1.5	16	2.5	15	.97
7	1.4	.84	.86	e2.8	9.3	34	12	2.4	13	2.0	7.9	.92
8	1.0	.92	.86	e2.7	7.1	25	7.4	4.1	11	2.8	3.6	.78
9	.76	13	.87	e2.6	12	18	5.1	2.1	7.7	9.4	2.5	.93
10	.71	5.7	.96	e2.5	37	14	6.8	1.7	4.5	3.9	2.6	.75
11	.62	2.5	.95	e2.4	23	12	8.1	1.6	3.3	2.6	11	.61
12	.63	1.3	.97	e2.3	15	13	5.9	5.1	2.7	1.9	8.5	.53
13	.59	.95	6.9	e2.2	14	23	4.2	3.2	2.6	1.4	3.2	.47
14	.59	.85	51	e2.2	25	16	2.7	2.1	2.5	1.4	2.0	.33
15	.57	.74	28	e2.1	129	12	2.5	1.7	2.3	1.3	1.7	.33
16	.67	.69	176	e2.0	210	10	2.5	1.6	5.4	1.1	1.5	.24
17	.90	.67	228	e2.0	166	8.8	2.1	7.5	3.1	1.1	1.6	.24
18	1.7	.63	54	e1.9	76	9.4	2.1	90	2.2	11	1.5	.27
19	1.6	.63	23	e1.9	46	8.3	2.0	394	1.9	2.3	1.5	.48
20	1.5	.63	e15.5	51	32	40	2.1	218	1.8	1.9	1.3	3.2
21	1.8	.60	e12.5	32	25	150	2.6	91	1.7	1.8	1.3	.53
22	5.2	.58	e10.5	24	20	75	1.9	252	3.9	1.7	1.3	.67
23	3.5	.61	e9.0	19	16	44	1.7	108	2.1	2.0	1.4	.45
24	5.3	.63	e7.8	17	14	28	1.8	70	2.1	1.9	1.6	.72
25	7.0	3.6	e7.0	15	79	20	2.0	46	2.0	2.4	1.4	1.0
26	2.4	1.4	e6.3	13	52	14	1.7	29	1.9	97	2.7	.56
27	1.1	1.1	e5.7	13	33	13	1.4	27	1.7	59	1.7	.46
28	.83	1.0	e5.1	12	24	11	2.1	19	1.7	30	1.4	.42
29	1.2	.87	e4.8	14	---	11	1.9	14	1.8	70	1.3	.70
30	1.0	.76	e4.5	41	---	9.8	2.0	9.7	1.7	50	1.1	.81
31	.74	---	e4.2	38	---	11	---	8.0	---	21	1.2	---
TOTAL	50.19	46.76	672.06	339.0	1169.4	936.3	223.6	1419.1	203.6	394.9	336.9	24.37
MEAN	1.62	1.56	21.7	10.9	41.8	30.2	7.45	45.8	6.79	12.7	10.9	.81
MAX	7.0	13	228	51	210	150	32	394	26	97	127	3.2
MIN	.57	.58	.70	1.9	7.1	8.3	1.4	1.2	1.7	1.1	1.1	.24

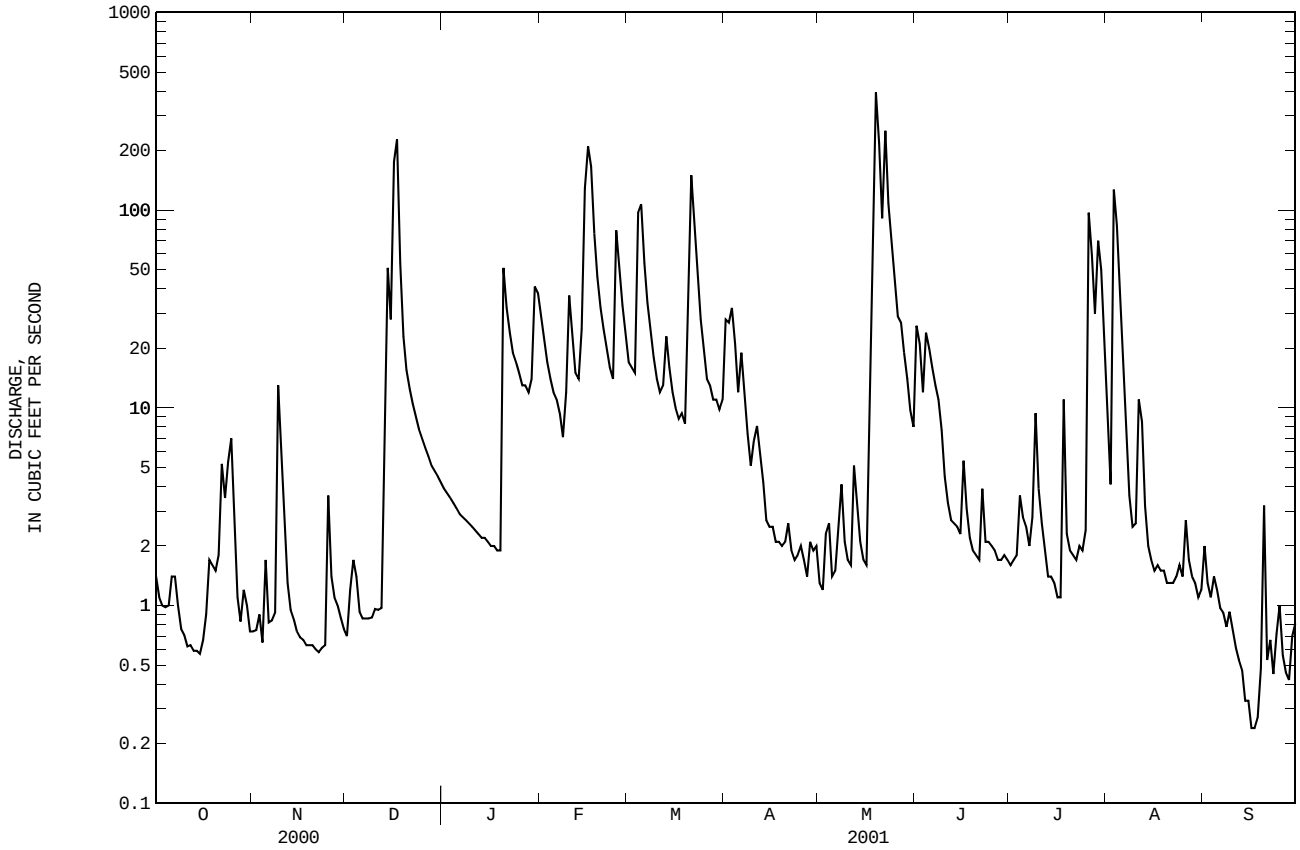
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	1.81	1.98	8.52	18.9	34.0	27.8	13.4	17.3	10.9	13.3	5.71	5.24
MAX	2.47	3.57	21.7	36.4	41.8	34.4	21.4	45.8	33.0	28.7	10.9	19.2
(WY)	1999	1998	2001	1999	2001	1999	1998	2001	1998	1998	2001	2000
MIN	1.00	1.25	1.70	3.94	27.6	12.9	7.25	1.86	1.24	3.40	.092	.18
(WY)	1998	1999	2000	2000	1999	1998	1999	2000	1999	1999	1999	1999

03284530 EAST HICKMAN CREEK AT DELONG ROAD NEAR EAST HICKMAN, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001	
ANNUAL TOTAL	4796.89		5816.18			
ANNUAL MEAN	13.1		15.9		13.1	
HIGHEST ANNUAL MEAN					15.9	2001
LOWEST ANNUAL MEAN					9.86	1999
HIGHEST DAILY MEAN	329	Mar 20	394	May 19	512	Jul 20 1998
LOWEST DAILY MEAN	.03	Sep 19	.24	Sep 16	.00	Aug 1 1999
ANNUAL SEVEN-DAY MINIMUM	.22	Jun 8	.34	Sep 13	.00	Aug 17 1999
MAXIMUM PEAK FLOW			394	May 19	1470	Feb 18 2000
MAXIMUM PEAK STAGE					6.17	Feb 18 2000
INSTANTANEOUS LOW FLOW			.24	Sep 16	.24	Sep 16 2001
10 PERCENT EXCEEDS	28		35		29	
50 PERCENT EXCEEDS	1.7		2.6		2.6	
90 PERCENT EXCEEDS	.46		.74		.42	

e Estimated



03284555 WEST HICKMAN CREEK AT ASH GROVE PIKE NEAR EAST HICKMAN, KY

LOCATION.--Lat 37°56'04", long 84°30'08", Jessamine County, Hydrologic Unit 05100205, on center pier, downstream side of bridge on Ash Grove Pike (#1980), 0.7 mi northwest of intersection with Macker Road, 1.9 mi northwest of East Hickman, 2.4 mi southeast of Nicholasville Road (US 27); and at mile 28.3.

DRAINAGE AREA.--20.5 mi^2.

PERIOD OF RECORD.--October 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 868.402 ft above NGVD of 1929.

REMARKS.--Record fair.

COOPERATION.--Lexington Fayette Urban County Government.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	23	24	28	54	55	101	26	83	29	55	37
2	31	27	26	26	45	51	55	31	55	27	51	26
3	32	27	33	25	43	47	113	27	43	46	317	25
4	30	29	28	27	41	251	72	36	86	74	275	28
5	29	30	27	25	37	197	57	24	56	37	110	26
6	30	33	27	27	34	120	51	23	51	30	71	24
7	29	38	26	27	33	89	46	32	58	29	54	24
8	28	28	25	28	32	70	42	52	53	29	47	25
9	27	108	26	26	61	58	39	26	42	51	41	24
10	27	48	29	26	85	51	38	24	36	34	40	24
11	27	32	26	25	54	47	37	22	36	30	91	23
12	27	29	27	26	46	52	34	33	33	28	46	22
13	26	25	e75	27	42	65	35	22	94	27	41	22
14	27	24	135	28	100	50	31	21	60	27	37	22
15	28	23	48	30	273	46	31	20	50	26	34	23
16	28	22	459	28	369	49	29	20	41	26	32	23
17	29	21	333	26	266	48	26	39	33	26	31	23
18	28	21	152	29	150	44	26	244	31	145	31	22
19	27	21	97	147	105	40	25	526	30	80	30	37
20	27	20	67	105	79	191	29	298	31	83	31	43
21	30	20	55	73	62	274	26	182	29	77	27	25
22	35	21	46	58	57	160	25	426	56	84	28	24
23	32	20	42	51	50	107	25	223	32	56	27	24
24	46	20	37	47	46	80	25	183	32	44	32	29
25	36	49	33	47	202	65	27	132	29	40	27	26
26	27	34	33	40	103	54	28	87	28	227	43	24
27	25	28	32	41	78	46	28	78	28	148	43	23
28	25	27	31	38	63	41	29	58	29	115	29	22
29	25	24	29	44	---	38	29	50	33	168	27	23
30	24	23	28	83	---	35	28	43	30	123	27	23
31	25	---	28	62	---	39	---	38	---	76	27	---
TOTAL	901	895	2084	1320	2610	2560	1187	3046	1328	2042	1802	766
MEAN	29.1	29.8	67.2	42.6	93.2	82.6	39.6	98.3	44.3	65.9	58.1	25.5
MAX	46	108	459	147	369	274	113	526	94	227	317	43
MIN	24	20	24	25	32	35	25	20	28	26	27	22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	27.8	29.1	50.6	73.4	90.2	81.6	61.9	67.2	61.8	59.1	38.0	34.9
MAX	29.1	38.8	67.2	103	96.5	96.8	110	108	135	105	58.1	69.8
(WY)	2001	1998	2001	1999	2000	1999	1998	1998	1998	1998	2001	2000
MIN	26.3	23.6	33.4	42.6	76.4	67.8	39.6	31.0	26.7	25.6	20.6	18.9
(WY)	2000	2000	2000	2001	1999	1998	2001	1999	1999	1999	1999	1999

03284555 WEST HICKMAN CREEK AT ASH GROVE PIKE NEAR EAST HICKMAN, KY

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001	
ANNUAL TOTAL	18960		20541			
ANNUAL MEAN	51.8		56.3		56.2	
HIGHEST ANNUAL MEAN					75.2	1998
LOWEST ANNUAL MEAN					45.0	1999
HIGHEST DAILY MEAN	745	Feb 18	526	May 19	893	Jul 20 1998
LOWEST DAILY MEAN	18	Jun 13	20	Nov 20	12	Nov 5 1998
ANNUAL SEVEN-DAY MINIMUM	19	Jun 8	20	Nov 18	17	Aug 16 1999
MAXIMUM PEAK FLOW			1410	May 19	3040	Jul 20 1998
MAXIMUM PEAK STAGE			4.58	May 19	7.43	Jul 20 1998
INSTANTANEOUS LOW FLOW					1.4	Nov 5 1998
10 PERCENT EXCEEDS	93		106		105	
50 PERCENT EXCEEDS	33		33		35	
90 PERCENT EXCEEDS	23		24		21	

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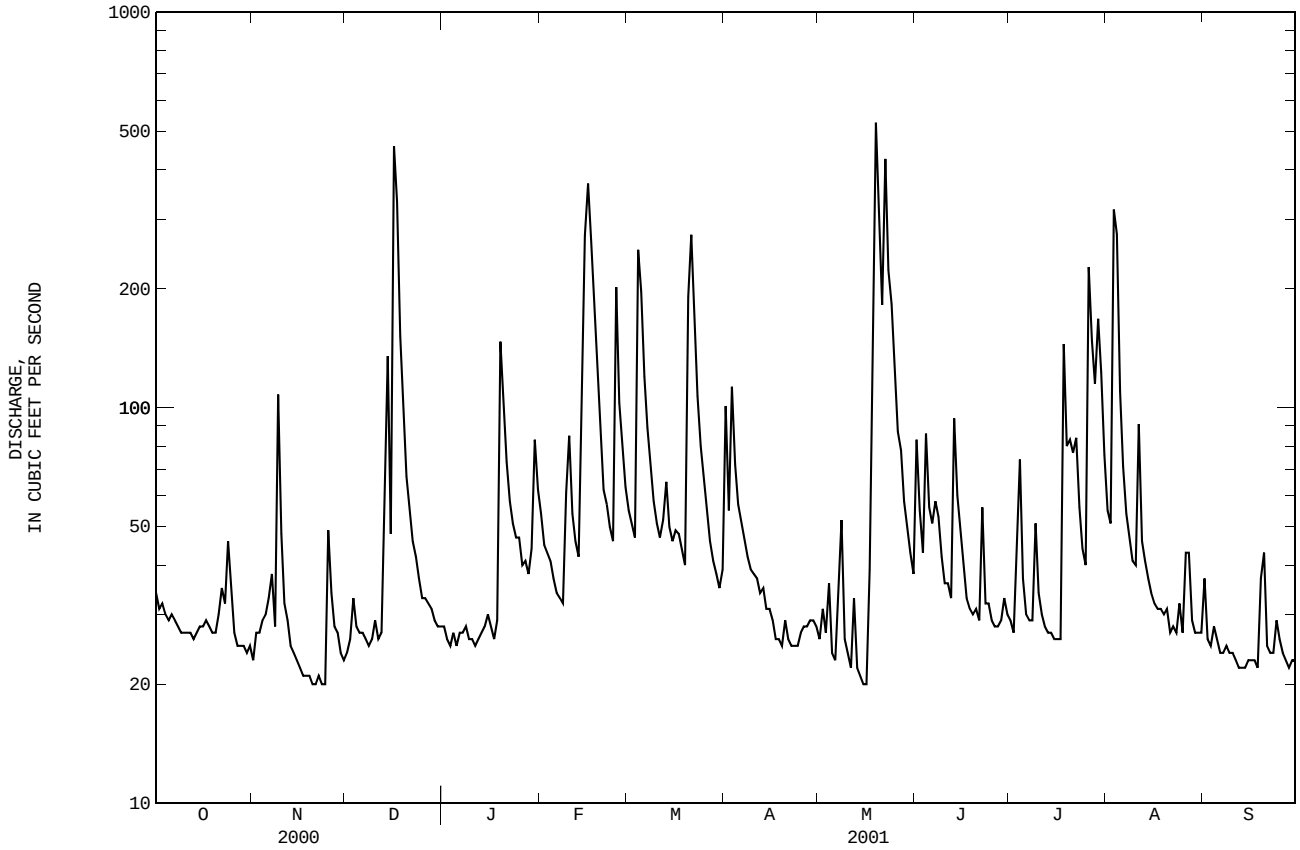


03285000 DIX RIVER NEAR DANVILLE, KY

LOCATION.--Lat 37°38'31", long 84°39'39", Garrard County, Hydrologic Unit 05100205, on right bank 50 ft downstream from bridge on State Highway 52, 1.4 mi downstream from Hanging Fork, 6 mi east of Danville, and at mile 34.6.

DRAINAGE AREA.--318 mi^2.

PERIOD OF RECORD.--May to August 1905 (gage heights only), October 1942 to current year. Published as "Dicks River," 1905.

REVISED RECORDS.--WSP 1555: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 750.10 ft above NGVD of 1929. Prior to Dec. 21, 1942,nonrecording gage at same site and datum. May to August 1905, nonrecording gage at site 6 mi downstream at different datum.

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

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)

No peak greater than base discharge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	6.0	9.3	e32	361	397	244	30	31	17	215	93
2	2.7	8.6	11	e30	267	335	616	28	150	14	133	51
3	3.1	10	13	e28	212	294	1240	26	93	14	237	38
4	3.3	8.7	12	e26	176	641	1830	26	97	22	3560	35
5	2.8	7.8	12	e26	165	1880	881	30	339	19	687	35
6	2.4	8.1	12	e30	148	1020	614	25	356	21	313	33
7	2.1	9.4	13	e32	130	655	468	22	491	27	191	30
8	1.9	9.3	13	e36	114	486	365	23	1490	21	129	24
9	1.9	20	13	e38	104	383	294	25	815	16	90	17
10	2.0	60	13	e32	224	307	246	81	290	14	67	13
11	2.0	89	15	e28	389	258	211	58	169	12	1390	9.8
12	1.9	88	16	e28	267	225	181	39	112	10	732	7.9
13	1.8	58	17	e30	220	249	164	29	75	8.6	348	6.8
14	1.6	38	115	35	212	289	203	23	56	7.3	179	5.8
15	1.6	29	299	39	4710	242	181	20	46	6.0	114	4.7
16	1.6	24	203	43	4190	279	153	17	44	e5.0	76	3.7
17	1.8	19	4290	48	5160	471	130	14	42	e4.2	57	3.1
18	2.7	16	928	46	1610	381	106	13	33	e6.0	47	2.7
19	2.8	14	359	569	920	300	93	11	26	e25	39	3.2
20	2.5	12	221	1770	651	402	83	8.8	20	e320	33	4.2
21	3.1	10	158	749	484	2430	77	31	16	e275	28	4.2
22	3.6	8.8	e100	e436	395	1710	72	167	17	e135	24	3.7
23	3.6	8.7	e70	e325	392	996	65	402	14	e90	20	2.7
24	4.2	8.6	e60	e260	332	684	57	181	15	e28	18	2.4
25	7.8	10	e55	e226	945	506	50	112	25	e110	15	3.2
26	7.0	9.8	e50	e204	1250	390	45	133	22	e95	11	5.7
27	6.8	10	e46	e195	706	315	42	86	16	e1500	46	4.9
28	6.7	8.3	e42	e184	514	263	39	57	12	349	113	3.7
29	5.3	7.4	e38	e182	---	232	35	45	13	1610	74	3.0
30	5.0	8.6	e36	316	---	214	33	36	11	1490	166	3.1
31	5.1	---	e34	604	---	203	---	29	---	423	126	---
TOTAL	103.9	625.1	7273.3	6627	25248	17437	8818	1827.8	4936	6694.1	9278	457.5
MEAN	3.35	20.8	235	214	902	562	294	59.0	165	216	299	15.2
MAX	7.8	89	4290	1770	5160	2430	1830	402	1490	1610	3560	93
MIN	1.6	6.0	9.3	26	104	203	33	8.8	11	4.2	11	2.4
CFSM	.01	.07	.74	.67	2.84	1.77	.92	.19	.52	.68	.94	.05
IN.	.01	.07	.85	.78	2.95	2.04	1.03	.21	.58	.78	1.09	.05

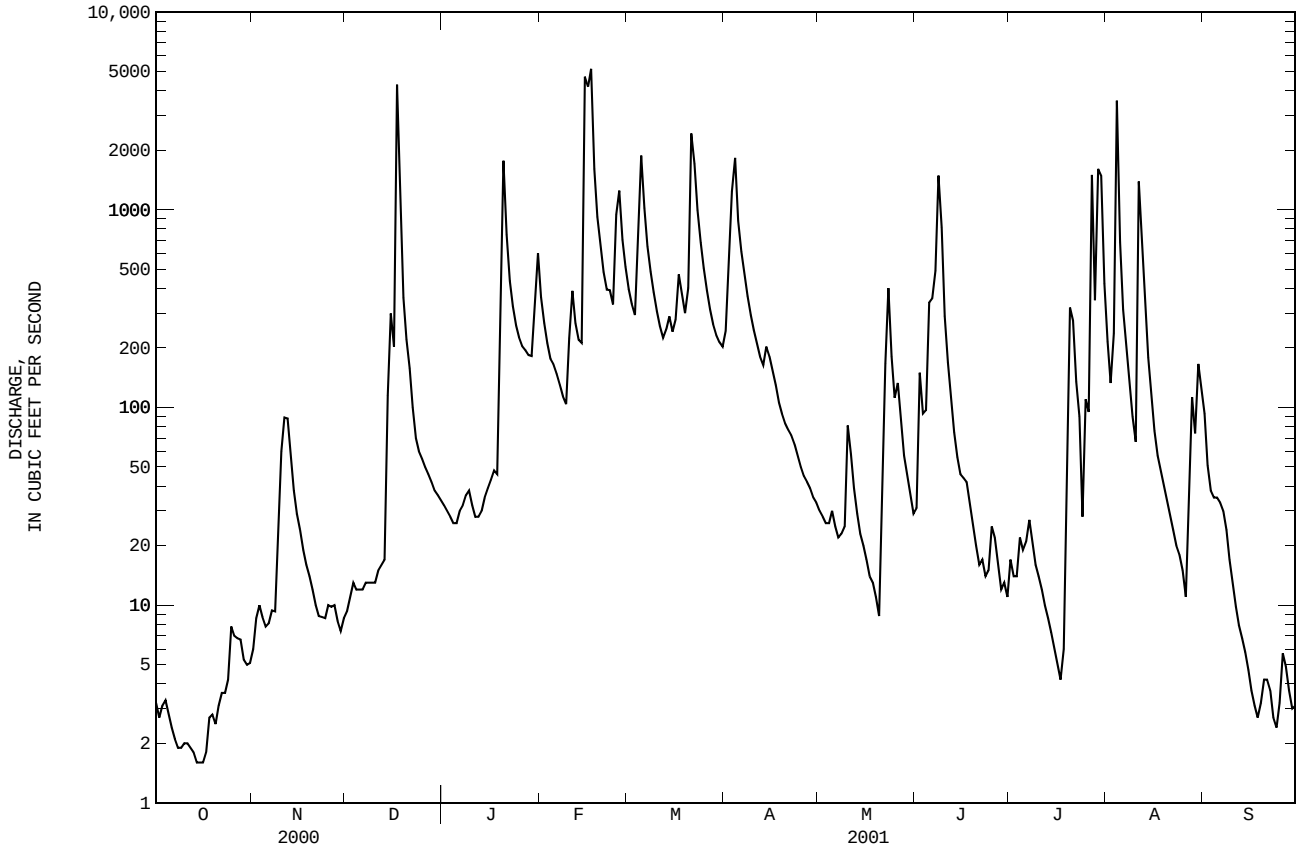
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2001, BY WATER YEAR (WY)

MEAN	96.2	295	650	795	981	1005	663	451	278	173	94.1	151
MAX	1323	1471	3656	3140	4129	3059	2736	2618	1732	1692	527	3430
(WY)	1980	1987	1979	1950	1989	1997	1972	1983	1997	1996	1958	1979
MIN	.000	.030	.69	17.0	72.1	174	57.1	51.8	8.83	.31	.93	.013
(WY)	1953	1954	1954	1981	1954	1983	1986	1976	1988	1944	1952	1953

03285000 DIX RIVER NEAR DANVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1943 - 2001	
ANNUAL TOTAL	90553.99		89325.7			
ANNUAL MEAN	247		245		467	
HIGHEST ANNUAL MEAN					1184	1979
LOWEST ANNUAL MEAN					119	1954
HIGHEST DAILY MEAN	7640	Feb 19	5160	Feb 17	35100	Jul 20 1996
LOWEST DAILY MEAN	.60	Sep 23	1.6	Oct 14	.00	Jul 21 1944
ANNUAL SEVEN-DAY MINIMUM	.83	Sep 19	1.8	Oct 11	.00	Jul 29 1944
MAXIMUM PEAK FLOW			7250	Feb 17	52400	Jul 20 1996
MAXIMUM PEAK STAGE			8.49	Feb 17	21.81	Dec 9 1978
ANNUAL RUNOFF (CFSM)	.78		.77		1.47	
ANNUAL RUNOFF (INCHES)	10.59		10.45		19.95	
10 PERCENT EXCEEDS	530		583		1050	
50 PERCENT EXCEEDS	46		42		121	
90 PERCENT EXCEEDS	2.7		4.2		2.9	

e Estimated



03285290 SPEARS CREEK AT STREAMLAND DRIVE NEAR DANVILLE, KY

LOCATION.-- Lat 37°40'15", long 84°46'33", Boyle County, Hydrologic Unit 05100205, at bridge on Streamland Drive, 0.3 mi east of the Southern Railroad, 1.7 mi north of Danville, and 4.05 mi above the mouth.

DRAINAGE AREA.--3.07 mi^2

WATER-STAGE RECORDS

PERIOD OF RECORD.--May 1998 to September 2001.

GAGE.--Water-stage recorder.

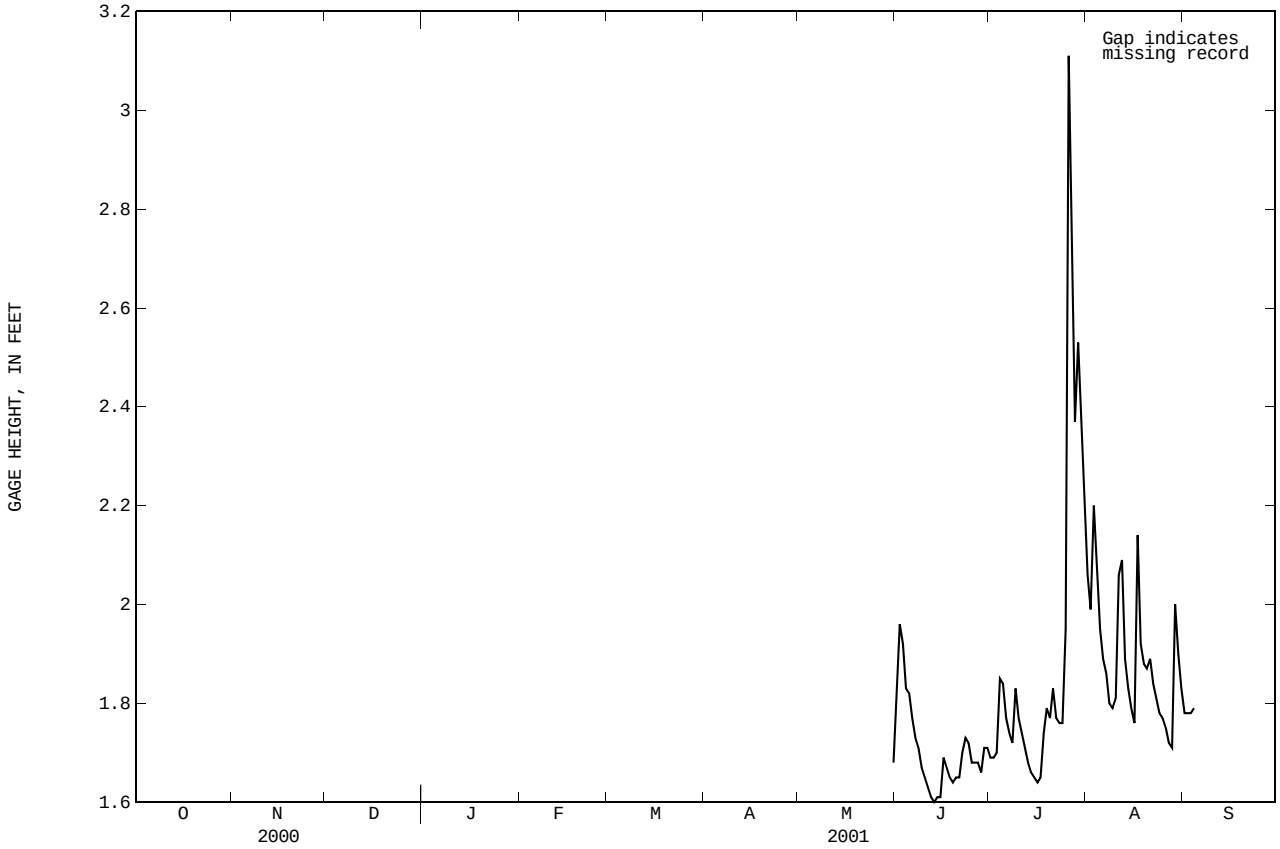
REMARKS.--Records good.

COOPERATION.--Kentucky Heritage Resource Conservation and Development Council.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	1.83	1.69	2.06	1.78
2	---	---	---	---	---	---	---	---	1.96	1.69	1.99	1.78
3	---	---	---	---	---	---	---	---	1.92	1.70	2.20	1.78
4	---	---	---	---	---	---	---	---	1.83	1.85	2.09	1.79
5	---	---	---	---	---	---	---	---	1.82	1.84	1.95	---
6	---	---	---	---	---	---	---	---	1.77	1.77	1.89	---
7	---	---	---	---	---	---	---	---	1.73	1.74	1.86	---
8	---	---	---	---	---	---	---	---	1.71	1.72	1.80	---
9	---	---	---	---	---	---	---	---	1.67	1.83	1.79	---
10	---	---	---	---	---	---	---	---	1.65	1.77	1.81	---
11	---	---	---	---	---	---	---	---	1.63	1.74	2.06	---
12	---	---	---	---	---	---	---	---	1.61	1.71	2.09	---
13	---	---	---	---	---	---	---	---	1.60	1.68	1.89	---
14	---	---	---	---	---	---	---	---	1.61	1.66	1.83	---
15	---	---	---	---	---	---	---	---	1.61	1.65	1.79	---
16	---	---	---	---	---	---	---	---	1.69	1.64	1.76	---
17	---	---	---	---	---	---	---	---	1.67	1.65	2.14	---
18	---	---	---	---	---	---	---	---	1.65	1.74	1.92	---
19	---	---	---	---	---	---	---	---	1.64	1.79	1.88	---
20	---	---	---	---	---	---	---	---	1.65	1.77	1.87	---
21	---	---	---	---	---	---	---	---	1.65	1.83	1.89	---
22	---	---	---	---	---	---	---	---	1.70	1.77	1.84	---
23	---	---	---	---	---	---	---	---	1.73	1.76	1.81	---
24	---	---	---	---	---	---	---	---	1.72	1.76	1.78	---
25	---	---	---	---	---	---	---	---	1.68	1.95	1.77	---
26	---	---	---	---	---	---	---	---	1.68	3.11	1.75	---
27	---	---	---	---	---	---	---	---	1.68	2.76	1.72	---
28	---	---	---	---	---	---	---	---	1.66	2.37	1.71	---
29	---	---	---	---	---	---	---	---	1.71	2.53	2.00	---
30	---	---	---	---	---	---	---	---	1.71	2.32	1.90	---
31	---	---	---	---	---	---	---	1.68	---	2.17	1.83	---
MEAN	---	---	---	---	---	---	---	---	1.71	1.90	1.89	---
MAX	---	---	---	---	---	---	---	---	1.96	3.11	2.20	---
MIN	---	---	---	---	---	---	---	---	1.60	1.64	1.71	---

03285290 SPEARS CREEK AT STREAMLAND DRIVE NEAR DANVILLE, KY--Continued



03285290 SPEARS CREEK AT STREAMLAND DRIVE NEAR DANVILLE, KY --Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1998 to September 2001.

COOPERATION.--The Kentucky Heritage Resource Conservation and Development Council.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: June 2000 to September 2000, May 2001 to September 2001.
pH: June 2000 to September 2000, May 2001 to September 2001.
WATER TEMPERATURES: June 2000 to September 2000, May 2001 to September 2001.
DISSOLVED OXYGEN: June 2000 to September 2000, May 2001 to September 2001.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 745 microsiemens, August 25, 26; minimum, 177 microsiemens, July 26. pH.--Maximum, 8.1 units, June 3, 4; minimum, 7.3 units, July 15-18, 26-27, August 29.
WATER TEMPERATURES: Maximum, 27.2°C, July 22; minimum, 13.2°C, June 2.
DISSOLVED OXYGEN: Maximum, 12.7 mg/L, July 22; minimum 1.2 mg/L, July 10, 11.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
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16	---	---	---	---	---	---	---	---	---	---	---	---
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31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03285290 SPEARS CREEK AT STREAMLAND DRIVE NEAR DANVILLE, KY --Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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31	---	---	---	---	---	---	---	---	---	617	574	602
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	615	397	535	609	533	593	622	605	613	684	617	666
2	552	423	504	598	560	582	631	556	612	679	658	669
3	589	491	553	612	508	576	595	472	553	694	627	664
4	616	582	596	614	502	554	603	563	580	698	639	674
5	623	596	612	596	554	576	612	588	599	---	---	---
6	624	590	612	618	548	604	633	608	621	---	---	---
7	627	603	618	640	603	615	656	619	632	---	---	---
8	628	564	605	622	500	605	644	623	632	---	---	---
9	611	532	584	623	468	567	657	609	641	---	---	---
10	602	520	569	633	589	608	655	605	636	---	---	---
11	606	523	566	645	599	630	668	316	561	---	---	---
12	592	523	559	642	598	622	577	428	526	---	---	---
13	587	527	555	608	592	598	615	576	599	---	---	---
14	559	528	541	607	576	591	637	615	627	---	---	---
15	541	484	525	604	569	586	649	621	641	---	---	---
16	570	500	541	607	563	578	657	493	638	---	---	---
17	599	541	573	605	537	575	585	397	512	---	---	---
18	581	544	562	648	419	539	637	585	618	---	---	---
19	576	546	559	611	568	591	663	635	653	---	---	---
20	574	561	568	649	603	619	677	661	669	---	---	---
21	595	564	582	674	585	610	689	666	679	---	---	---
22	619	576	601	630	611	620	712	671	690	---	---	---
23	609	594	599	644	628	636	723	680	697	---	---	---
24	613	586	602	653	614	641	721	673	696	---	---	---
25	594	570	580	667	274	596	745	686	713	---	---	---
26	576	526	553	519	177	385	745	671	718	---	---	---
27	555	533	546	545	362	491	732	644	687	---	---	---
28	591	538	559	578	545	564	679	620	646	---	---	---
29	617	498	558	577	438	533	662	355	523	---	---	---
30	638	583	611	593	540	571	636	519	591	---	---	---
31	---	---	---	605	585	596	681	636	651	---	---	---
MONTH	638	397	571	674	177	582	745	316	628	---	---	---
YEAR	745	177	597									

03285290 SPEARS CREEK AT STREAMLAND DRIVE NEAR DANVILLE, KY --Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
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MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
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30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	7.9	7.5	7.6
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03285290 SPEARS CREEK AT STREAMLAND DRIVE NEAR DANVILLE, KY --Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.7	7.5	7.5	7.8	7.6	7.6	8.0	7.8	7.9	7.8	7.6	7.7
2	7.9	7.6	7.7	7.8	7.5	7.6	8.0	7.8	7.9	7.7	7.6	7.6
3	8.1	7.6	7.8	7.7	7.5	7.6	7.9	7.8	7.8	7.8	7.6	7.7
4	8.1	7.6	7.7	7.7	7.5	7.6	8.0	7.8	7.9	7.8	7.7	7.8
5	8.0	7.6	7.7	7.9	7.6	7.7	8.0	7.9	7.9	---	---	---
6	8.1	7.5	7.7	7.8	7.7	7.7	7.9	7.8	7.8	---	---	---
7	7.9	7.5	7.7	7.9	7.7	7.8	7.8	7.7	7.8	---	---	---
8	7.9	7.5	7.6	7.8	7.4	7.6	7.8	7.6	7.7	---	---	---
9	8.0	7.6	7.7	7.6	7.4	7.5	7.8	7.6	7.7	---	---	---
10	8.0	7.5	7.7	7.6	7.5	7.5	7.8	7.7	7.8	---	---	---
11	7.8	7.4	7.6	7.6	7.5	7.5	7.9	7.6	7.7	---	---	---
12	7.6	7.4	7.5	7.5	7.5	7.5	8.0	7.7	7.9	---	---	---
13	7.6	7.4	7.5	7.6	7.4	7.5	8.0	7.8	7.9	---	---	---
14	7.6	7.4	7.5	7.5	7.4	7.4	7.9	7.7	7.8	---	---	---
15	7.8	7.4	7.5	7.4	7.3	7.4	7.8	7.6	7.7	---	---	---
16	7.8	7.4	7.6	7.4	7.3	7.4	7.8	7.5	7.7	---	---	---
17	7.9	7.6	7.7	7.4	7.3	7.4	7.7	7.5	7.6	---	---	---
18	7.9	7.6	7.7	7.4	7.3	7.3	7.8	7.6	7.7	---	---	---
19	7.8	7.6	7.7	7.6	7.4	7.5	7.7	7.6	7.7	---	---	---
20	7.8	7.6	7.6	7.6	7.5	7.5	7.8	7.6	7.7	---	---	---
21	7.6	7.5	7.5	7.7	7.5	7.6	7.7	7.6	7.7	---	---	---
22	7.7	7.5	7.6	7.6	7.5	7.6	7.7	7.5	7.6	---	---	---
23	7.9	7.6	7.7	7.7	7.5	7.6	7.5	7.5	7.5	---	---	---
24	7.8	7.6	7.7	7.7	7.5	7.6	7.5	7.5	7.5	---	---	---
25	7.7	7.6	7.6	7.8	7.4	7.6	7.6	7.5	7.5	---	---	---
26	7.9	7.5	7.7	7.7	7.3	7.5	7.7	7.5	7.5	---	---	---
27	7.9	7.6	7.7	7.8	7.3	7.6	7.7	7.5	7.6	---	---	---
28	7.8	7.5	7.7	7.9	7.8	7.8	7.5	7.4	7.5	---	---	---
29	7.6	7.5	7.5	7.8	7.7	7.8	7.6	7.3	7.4	---	---	---
30	7.7	7.6	7.6	7.9	7.8	7.9	7.7	7.5	7.6	---	---	---
31	---	---	---	8.0	7.8	7.9	7.8	7.6	7.7	---	---	---
MONTH	8.1	7.4	7.6	8.0	7.3	7.6	8.0	7.3	7.7	---	---	---
YEAR	8.1	7.3	7.6									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03285290 SPEARS CREEK AT STREAMLAND DRIVE NEAR DANVILLE, KY --Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	18.6	14.9	16.7
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.2	14.6	17.0	22.4	18.0	20.0	25.9	19.8	22.5	23.7	19.9	21.3
2	17.4	13.2	15.0	20.5	17.0	18.9	25.9	20.4	22.9	22.5	18.1	20.4
3	18.9	13.4	16.0	22.4	16.5	19.3	23.2	20.8	22.0	21.6	19.7	20.6
4	20.8	15.1	17.2	22.4	19.9	21.0	24.4	19.7	21.5	24.5	19.8	21.6
5	22.4	16.5	19.2	25.0	18.3	20.8	26.0	19.6	22.4	---	---	---
6	24.7	17.6	20.4	24.3	16.7	20.2	26.3	20.5	23.1	---	---	---
7	21.4	18.1	19.6	21.6	17.1	19.4	25.7	20.5	23.0	---	---	---
8	23.1	17.8	20.1	24.6	20.4	22.0	25.9	20.6	23.2	---	---	---
9	21.9	16.1	19.0	25.5	20.7	22.6	25.6	21.1	23.1	---	---	---
10	21.7	15.3	18.7	27.2	20.3	23.3	26.3	21.9	23.6	---	---	---
11	22.3	16.0	19.2	25.2	20.2	22.5	24.7	21.1	22.5	---	---	---
12	22.4	17.2	20.0	20.6	16.3	18.9	24.3	20.2	22.0	---	---	---
13	23.1	17.6	20.4	21.1	15.7	18.5	25.3	19.0	21.7	---	---	---
14	22.8	17.6	20.0	20.5	15.1	18.0	25.1	18.8	21.6	---	---	---
15	23.5	17.6	20.4	20.5	14.9	17.9	24.4	18.5	21.3	---	---	---
16	24.9	19.2	21.7	20.7	15.4	18.1	23.7	19.3	21.4	---	---	---
17	23.5	17.6	20.6	21.4	16.7	18.9	23.7	20.1	21.7	---	---	---
18	22.3	16.6	19.6	24.9	17.9	20.8	22.7	18.4	20.1	---	---	---
19	22.6	16.4	19.5	25.4	20.2	22.4	23.5	19.3	20.7	---	---	---
20	21.8	17.0	19.4	23.2	20.3	21.8	22.8	17.2	19.7	---	---	---
21	21.1	16.7	18.7	25.8	19.2	22.2	23.0	16.1	19.3	---	---	---
22	18.2	16.7	17.6	24.4	20.5	22.2	23.5	17.6	20.2	---	---	---
23	20.2	15.2	17.7	25.4	20.0	22.4	24.7	20.6	22.3	---	---	---
24	20.9	15.3	18.2	23.9	19.5	21.8	24.0	19.3	21.5	---	---	---
25	20.4	15.3	18.0	23.5	19.6	21.5	23.3	19.3	21.2	---	---	---
26	20.6	15.8	18.1	23.3	21.8	22.6	23.8	19.5	21.5	---	---	---
27	20.7	15.5	18.2	22.2	19.7	20.7	22.1	19.2	20.4	---	---	---
28	20.2	15.9	18.0	22.3	19.4	20.7	22.6	17.7	20.1	---	---	---
29	23.5	16.8	20.1	23.2	20.0	21.2	23.5	18.7	21.2	---	---	---
30	23.5	18.7	20.7	23.9	19.1	21.2	24.6	19.9	22.0	---	---	---
31	---	---	---	25.6	19.1	21.9	21.9	20.6	21.2	---	---	---
MONTH	24.9	13.2	18.9	27.2	14.9	20.8	26.3	16.1	21.6	---	---	---
YEAR	27.2	13.2	20.4									

03285290 SPEARS CREEK AT STREAMLAND DRIVE NEAR DANVILLE, KY --Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	10.3	5.1	7.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03285290 SPEARS CREEK AT STREAMLAND DRIVE NEAR DANVILLE, KY --Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.5	4.4	6.8	5.9	2.5	4.0	2.5	1.9	2.2	4.6	2.7	3.8
2	10.1	7.6	8.6	6.8	2.2	4.1	2.7	2.2	2.4	4.5	2.1	3.4
3	10.8	7.0	9.3	5.6	2.6	4.3	2.7	2.3	2.5	3.9	2.0	3.0
4	9.5	5.5	7.4	5.6	3.0	4.4	6.5	2.5	2.9	4.5	2.8	3.7
5	8.9	5.2	6.7	7.8	4.5	5.8	8.9	2.6	5.3	---	---	---
6	9.8	3.9	6.5	7.2	4.2	5.8	4.7	2.8	3.4	---	---	---
7	8.6	3.8	6.3	7.6	4.9	6.4	4.4	3.0	3.3	---	---	---
8	8.8	3.6	6.0	6.3	3.9	5.3	4.2	3.0	3.3	---	---	---
9	9.3	4.8	6.6	6.1	3.6	4.7	3.9	3.0	3.4	---	---	---
10	9.2	3.8	6.4	5.4	1.2	3.2	3.5	2.9	3.2	---	---	---
11	8.0	3.3	5.5	3.5	1.2	2.2	8.1	2.9	4.8	---	---	---
12	6.4	2.3	4.5	4.0	1.8	2.8	9.1	7.6	8.4	---	---	---
13	5.7	1.7	4.0	4.6	1.7	3.3	8.7	6.5	8.0	---	---	---
14	6.1	3.3	4.4	4.7	1.7	2.8	8.0	6.3	7.3	---	---	---
15	7.7	3.4	5.3	4.3	1.8	2.8	7.3	4.8	6.5	---	---	---
16	7.5	3.8	5.3	4.1	2.4	3.1	6.9	4.1	6.0	---	---	---
17	8.2	4.7	6.0	3.0	2.7	2.8	7.9	5.8	7.1	---	---	---
18	7.5	4.2	5.6	4.6	2.9	3.2	7.6	6.1	7.0	---	---	---
19	7.1	3.6	5.3	5.2	3.2	4.1	7.1	5.6	6.3	---	---	---
20	7.9	2.6	5.4	4.8	3.8	4.3	7.3	4.6	6.5	---	---	---
21	6.7	3.2	4.5	4.8	4.0	4.4	7.5	3.9	6.2	---	---	---
22	6.7	3.2	5.0	5.2	4.3	4.6	6.8	2.0	4.8	---	---	---
23	8.5	4.0	6.1	5.4	4.6	4.8	5.3	1.8	3.4	---	---	---
24	8.2	3.0	5.6	5.9	4.9	5.2	5.3	1.7	3.4	---	---	---
25	7.1	1.7	4.5	9.7	5.2	5.7	4.7	1.5	2.6	---	---	---
26	7.0	2.0	4.5	12.7	5.4	7.1	4.1	1.4	2.1	---	---	---
27	7.6	3.5	5.3	10.9	7.0	8.0	4.1	1.3	2.2	---	---	---
28	6.4	1.6	3.9	7.9	6.4	7.4	4.8	1.4	2.7	---	---	---
29	5.0	2.2	3.2	8.1	2.0	5.4	6.1	2.0	4.7	---	---	---
30	5.4	2.8	3.9	9.6	2.2	5.7	6.3	3.8	5.3	---	---	---
31	---	---	---	8.3	1.9	5.4	5.2	3.2	4.3	---	---	---
MONTH	10.8	1.6	5.6	12.7	1.2	4.6	9.1	1.3	4.6	---	---	---
YEAR	12.7	1.2	4.9									

03285335 MOCKS BRANCH AT HWY 1896 NEAR DANVILLE, KY

LOCATION.-- Lat 37°42'18", long 84°48'11", Boyle County, Hydrologic Unit 05100205, at culvert on Hwy 1896, 0.4 mi east of the intersection of Hwy 1896 and 127, 4.4 mi northwest of Danville, and 5.8 mi above mouth.

DRAINAGE AREA.--8.16 mi^2

WATER-STAGE RECORDS

PERIOD OF RECORD.--June 9, 1998 to November 20. 1998, June 2001 to August 2001.

GAGE.--Water-stage recorder.

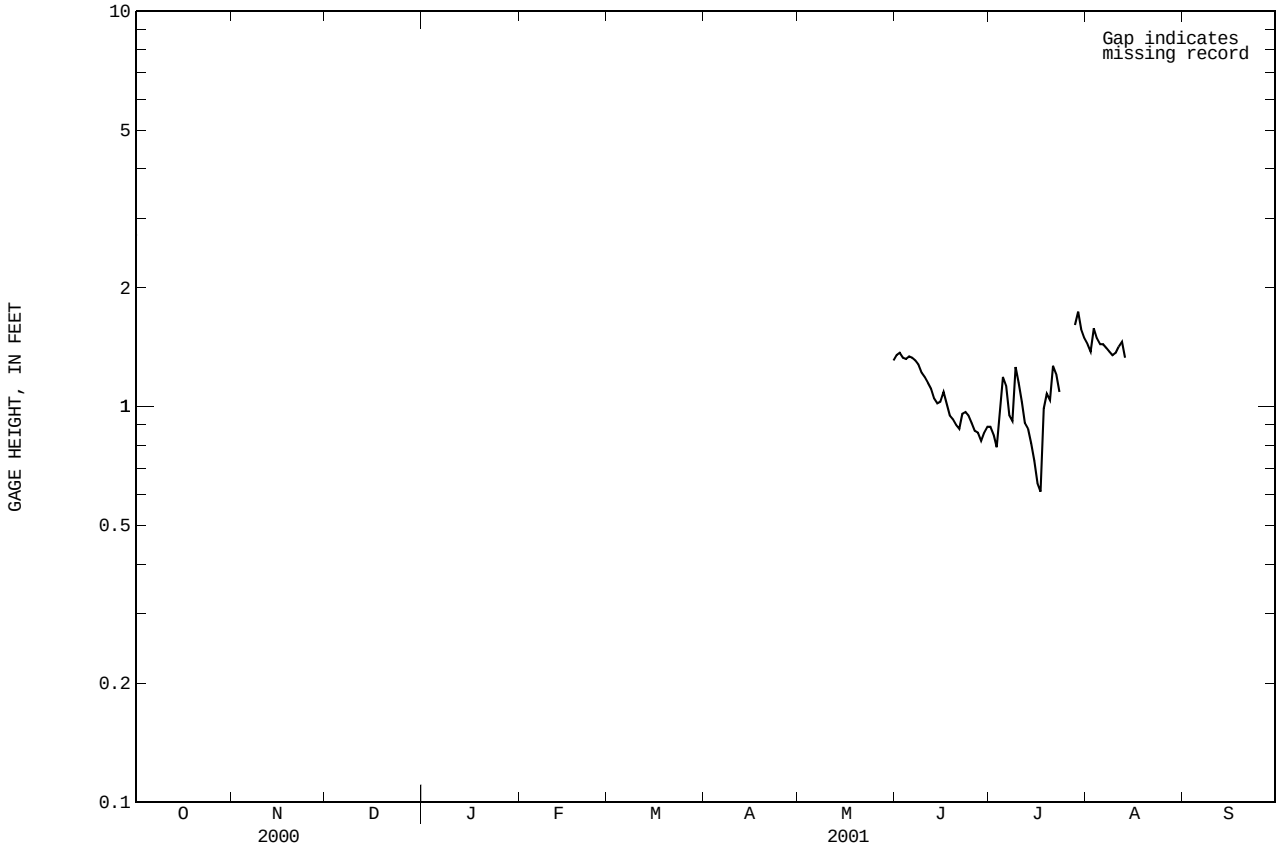
REMARKS.--Records good.

COOPERATION.--Kentucky Heritage Resource Conservation and Development Council.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	1.35	.89	1.44	---
2	---	---	---	---	---	---	---	---	1.37	.85	1.38	---
3	---	---	---	---	---	---	---	---	1.33	.79	1.58	---
4	---	---	---	---	---	---	---	---	1.32	.97	1.49	---
5	---	---	---	---	---	---	---	---	1.34	1.19	1.44	---
6	---	---	---	---	---	---	---	---	1.33	1.13	1.44	---
7	---	---	---	---	---	---	---	---	1.31	.95	1.41	---
8	---	---	---	---	---	---	---	---	1.28	.92	1.38	---
9	---	---	---	---	---	---	---	---	1.22	1.26	1.35	---
10	---	---	---	---	---	---	---	---	1.19	1.15	1.37	---
11	---	---	---	---	---	---	---	---	1.15	1.03	1.42	---
12	---	---	---	---	---	---	---	---	1.11	.91	1.46	---
13	---	---	---	---	---	---	---	---	1.05	.88	1.33	---
14	---	---	---	---	---	---	---	---	1.02	.81	---	---
15	---	---	---	---	---	---	---	---	1.03	.73	---	---
16	---	---	---	---	---	---	---	---	1.09	.64	---	---
17	---	---	---	---	---	---	---	---	1.02	.61	---	---
18	---	---	---	---	---	---	---	---	.95	.99	---	---
19	---	---	---	---	---	---	---	---	.93	1.08	---	---
20	---	---	---	---	---	---	---	---	.90	1.04	---	---
21	---	---	---	---	---	---	---	---	.88	1.27	---	---
22	---	---	---	---	---	---	---	---	.96	1.21	---	---
23	---	---	---	---	---	---	---	---	.97	1.09	---	---
24	---	---	---	---	---	---	---	---	.95	---	---	---
25	---	---	---	---	---	---	---	---	.91	---	---	---
26	---	---	---	---	---	---	---	---	.87	---	---	---
27	---	---	---	---	---	---	---	---	.86	---	---	---
28	---	---	---	---	---	---	---	---	.82	1.61	---	---
29	---	---	---	---	---	---	---	---	.86	1.74	---	---
30	---	---	---	---	---	---	---	---	.89	1.57	---	---
31	---	---	---	---	---	---	---	1.31	---	1.49	---	---
MEAN	---	---	---	---	---	---	---	---	1.08	---	---	---
MAX	---	---	---	---	---	---	---	---	1.37	---	---	---
MIN	---	---	---	---	---	---	---	---	.82	---	---	---

03285335 MOCKS BRANCH AT HWY 1896 NEAR DANVILLE, KY--Continued



03285335 MOCKS BRANCH AT HIGHWAY N1896 NEAR DANVILLE KY --Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1998 to August 2001.

COOPERATION.--The Kentucky Heritage Resource Conservation and Development Council.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: June 1998 to August 2001.
pH: June 1998 to August 2001.
WATER TEMPERATURES: June 1998 to August 2001.
DISSOLVED OXYGEN: June 1998 to August 2001.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 976 microsiemens, July 23; minimum, 274 microsiemens, July 5.
pH.--Maximum, 7.9 units, May 31, June 2, 3; minimum, 6.8 units, August 3, 9.
WATER TEMPERATURES: Maximum, 27.5°C, July 31; minimum, 14.1°C, June 2.
DISSOLVED OXYGEN: Maximum, 8.0 mg/L, June 3; minimum 0.2 mg/L, August 9.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
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23	---	---	---	---	---	---	---	---	---	---	---	---
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26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03285335 MOCKS BRANCH AT HIGHWAY N1896 NEAR DANVILLE KY --Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
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9	---	---	---	---	---	---	---	---	---	---	---	---
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12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	536	507	524
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	555	510	523	708	646	659	529	511	521	---	---	---
2	595	537	569	661	651	657	531	511	521	---	---	---
3	600	560	586	652	622	646	590	331	507	---	---	---
4	585	528	558	660	603	622	599	574	593	---	---	---
5	610	547	589	726	274	604	577	558	573	---	---	---
6	632	571	602	738	466	630	567	551	560	---	---	---
7	640	571	620	788	738	764	566	554	560	---	---	---
8	620	576	604	834	753	810	570	553	561	---	---	---
9	590	564	582	756	477	648	574	559	566	---	---	---
10	581	554	569	750	713	729	---	---	---	---	---	---
11	569	548	557	769	750	760	---	---	---	---	---	---
12	575	547	558	789	769	779	---	---	---	---	---	---
13	589	550	566	807	786	797	---	---	---	---	---	---
14	611	569	582	838	802	809	---	---	---	---	---	---
15	612	574	600	816	802	810	---	---	---	---	---	---
16	614	565	593	813	805	809	---	---	---	---	---	---
17	613	600	607	811	804	807	---	---	---	---	---	---
18	616	607	611	805	454	632	---	---	---	---	---	---
19	620	614	616	648	547	596	---	---	---	---	---	---
20	620	611	616	793	648	696	---	---	---	---	---	---
21	626	612	620	863	793	838	---	---	---	---	---	---
22	616	575	595	917	860	897	---	---	---	---	---	---
23	609	582	597	976	915	937	---	---	---	---	---	---
24	643	609	627	---	---	---	---	---	---	---	---	---
25	646	635	640	---	---	---	---	---	---	---	---	---
26	648	644	646	---	---	---	---	---	---	---	---	---
27	646	640	642	---	---	---	---	---	---	---	---	---
28	650	624	643	478	411	436	---	---	---	---	---	---
29	639	621	627	550	452	524	---	---	---	---	---	---
30	649	626	636	541	521	529	---	---	---	---	---	---
31	---	---	---	525	515	521	---	---	---	---	---	---
MONTH	650	510	599	---	---	---	---	---	---	---	---	---
YEAR	976	274	633									

03285335 MOCKS BRANCH AT HIGHWAY N1896 NEAR DANVILLE KY --Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
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20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
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30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
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30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	7.9	7.6	7.7
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03285335 MOCKS BRANCH AT HIGHWAY N1896 NEAR DANVILLE KY --Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.8	7.4	7.6	7.5	7.5	7.5	7.7	7.5	7.6	---	---	---
2	7.9	7.6	7.7	7.5	7.4	7.4	7.6	7.4	7.5	---	---	---
3	7.9	7.5	7.7	7.5	7.4	7.4	7.6	6.8	7.0	---	---	---
4	7.8	7.2	7.6	7.6	7.4	7.5	7.1	7.0	7.0	---	---	---
5	7.5	7.4	7.4	7.6	7.2	7.4	7.2	7.1	7.1	---	---	---
6	7.5	7.3	7.4	7.5	7.2	7.3	7.2	7.1	7.2	---	---	---
7	7.5	7.3	7.4	7.5	7.4	7.4	7.3	7.2	7.2	---	---	---
8	7.7	7.3	7.4	7.6	7.4	7.5	7.3	7.2	7.3	---	---	---
9	7.7	7.3	7.5	7.5	7.2	7.3	7.4	6.8	7.1	---	---	---
10	7.6	7.3	7.4	7.5	7.4	7.4	---	---	---	---	---	---
11	7.5	7.3	7.4	7.5	7.3	7.4	---	---	---	---	---	---
12	7.5	7.3	7.4	7.4	7.3	7.4	---	---	---	---	---	---
13	7.4	7.3	7.3	7.4	7.4	7.4	---	---	---	---	---	---
14	7.4	7.3	7.4	7.4	7.4	7.4	---	---	---	---	---	---
15	7.4	7.4	7.4	7.4	7.4	7.4	---	---	---	---	---	---
16	7.4	7.3	7.4	7.4	7.4	7.4	---	---	---	---	---	---
17	7.4	7.4	7.4	7.5	7.4	7.5	---	---	---	---	---	---
18	7.4	7.4	7.4	7.5	7.3	7.5	---	---	---	---	---	---
19	7.4	7.4	7.4	7.6	7.5	7.5	---	---	---	---	---	---
20	7.4	7.4	7.4	7.8	7.6	7.7	---	---	---	---	---	---
21	7.5	7.4	7.4	7.8	7.5	7.6	---	---	---	---	---	---
22	7.5	7.4	7.5	7.7	7.5	7.6	---	---	---	---	---	---
23	7.6	7.5	7.5	7.8	7.6	7.7	---	---	---	---	---	---
24	7.5	7.4	7.5	---	---	---	---	---	---	---	---	---
25	7.5	7.5	7.5	---	---	---	---	---	---	---	---	---
26	7.5	7.5	7.5	---	---	---	---	---	---	---	---	---
27	7.5	7.4	7.5	---	---	---	---	---	---	---	---	---
28	7.5	7.4	7.4	7.7	7.6	7.7	---	---	---	---	---	---
29	7.5	7.4	7.4	7.8	7.6	7.7	---	---	---	---	---	---
30	7.5	7.4	7.4	7.9	7.7	7.8	---	---	---	---	---	---
31	---	---	---	7.8	7.7	7.8	---	---	---	---	---	---
MONTH	7.9	7.2	7.5	---	---	---	---	---	---	---	---	---
YEAR	7.9	6.8	7.4									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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4	---	---	---	---	---	---	---	---	---	---	---	---
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11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
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21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
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30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03285335 MOCKS BRANCH AT HIGHWAY N1896 NEAR DANVILLE KY --Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
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30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	19.1	16.3	17.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.4	16.1	17.9	21.4	20.4	20.9	27.4	23.1	25.1	---	---	---
2	16.9	14.1	15.2	21.4	19.5	20.1	26.9	23.9	25.4	---	---	---
3	17.2	14.5	15.7	21.3	18.8	19.8	26.5	21.9	23.6	---	---	---
4	19.1	16.4	17.4	21.3	20.4	20.7	24.6	21.4	22.7	---	---	---
5	21.0	18.2	19.3	22.6	20.6	21.3	25.3	21.8	23.4	---	---	---
6	21.9	19.6	20.7	21.5	18.8	19.8	25.9	23.3	24.5	---	---	---
7	21.8	19.8	20.5	20.7	18.5	19.4	25.9	23.6	24.8	---	---	---
8	21.5	20.0	20.7	23.2	20.6	21.5	26.1	23.9	24.9	---	---	---
9	20.9	18.5	19.5	23.0	21.3	22.0	26.2	24.4	25.4	---	---	---
10	20.3	17.7	18.9	23.4	22.3	22.8	---	---	---	---	---	---
11	21.3	18.3	19.6	23.6	21.9	22.8	---	---	---	---	---	---
12	22.4	19.8	20.9	21.9	19.4	20.1	---	---	---	---	---	---
13	22.9	20.7	21.8	19.9	18.6	19.2	---	---	---	---	---	---
14	23.0	21.0	21.8	19.6	17.6	18.7	---	---	---	---	---	---
15	23.5	21.3	22.2	19.5	17.4	18.6	---	---	---	---	---	---
16	22.6	21.3	21.8	20.5	17.7	19.2	---	---	---	---	---	---
17	21.8	19.8	21.0	21.9	19.1	20.5	---	---	---	---	---	---
18	21.2	18.7	20.2	22.0	20.4	21.1	---	---	---	---	---	---
19	21.8	18.6	20.2	22.8	21.7	22.1	---	---	---	---	---	---
20	21.6	20.1	20.9	22.5	22.0	22.3	---	---	---	---	---	---
21	21.9	20.3	21.0	23.4	21.4	22.1	---	---	---	---	---	---
22	21.1	18.5	19.7	23.4	22.3	22.6	---	---	---	---	---	---
23	18.8	17.0	18.0	23.6	22.4	22.8	---	---	---	---	---	---
24	19.3	16.9	18.1	---	---	---	---	---	---	---	---	---
25	19.7	17.4	18.6	---	---	---	---	---	---	---	---	---
26	19.8	18.4	19.1	---	---	---	---	---	---	---	---	---
27	20.4	18.4	19.4	---	---	---	---	---	---	---	---	---
28	20.4	19.0	19.8	23.8	22.2	22.8	---	---	---	---	---	---
29	20.8	19.4	20.1	24.2	21.0	22.3	---	---	---	---	---	---
30	21.5	20.2	20.8	26.4	21.0	23.4	---	---	---	---	---	---
31	---	---	---	27.5	22.0	24.6	---	---	---	---	---	---
MONTH	23.5	14.1	19.7	---	---	---	---	---	---	---	---	---
YEAR	27.5	14.1	20.9									

03285335 MOCKS BRANCH AT HIGHWAY N1896 NEAR DANVILLE KY --Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
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6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
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9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
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21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
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27	---	---	---	---	---	---	---	---	---	---	---	---
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29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	6.0	2.8	4.2
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03285335 MOCKS BRANCH AT HIGHWAY N1896 NEAR DANVILLE KY --Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.9	1.8	4.5	3.2	1.4	2.2	3.8	1.6	3.0	---	---	---
2	7.9	4.9	6.2	6.5	2.0	3.1	3.1	.5	2.0	---	---	---
3	8.0	5.3	6.3	7.0	1.9	3.6	4.2	.5	3.2	---	---	---
4	6.5	4.5	5.4	3.7	.9	1.5	3.7	2.3	3.2	---	---	---
5	5.7	4.0	4.7	6.4	1.6	3.0	3.0	.8	2.3	---	---	---
6	5.4	3.1	4.1	4.1	2.5	3.4	2.1	.5	1.3	---	---	---
7	5.6	3.1	3.8	3.5	1.5	2.4	1.2	.4	.7	---	---	---
8	6.8	2.4	4.2	4.3	.9	1.2	1.0	.3	.5	---	---	---
9	5.9	2.5	4.1	3.3	.9	2.2	1.3	.2	.6	---	---	---
10	5.5	1.4	3.3	1.0	.8	.8	---	---	---	---	---	---
11	4.5	1.5	3.0	3.3	.8	1.5	---	---	---	---	---	---
12	3.6	1.2	2.4	3.1	.8	1.7	---	---	---	---	---	---
13	3.1	1.1	2.0	4.4	.8	1.9	---	---	---	---	---	---
14	2.8	.8	1.5	2.2	.7	1.1	---	---	---	---	---	---
15	1.8	.8	1.1	1.5	.6	.9	---	---	---	---	---	---
16	1.8	.9	1.2	.9	.3	.7	---	---	---	---	---	---
17	2.5	.9	1.6	1.2	.4	.7	---	---	---	---	---	---
18	2.2	1.0	1.6	4.8	.3	1.0	---	---	---	---	---	---
19	1.6	1.1	1.3	.6	.3	.3	---	---	---	---	---	---
20	1.9	1.1	1.4	.4	.4	.4	---	---	---	---	---	---
21	2.1	1.2	1.6	.9	.4	.4	---	---	---	---	---	---
22	3.1	1.2	2.1	.6	.4	.5	---	---	---	---	---	---
23	4.9	2.2	3.2	.6	.5	.5	---	---	---	---	---	---
24	3.6	1.9	2.5	---	---	---	---	---	---	---	---	---
25	4.1	1.5	2.7	---	---	---	---	---	---	---	---	---
26	3.5	1.8	2.6	---	---	---	---	---	---	---	---	---
27	3.5	1.6	2.5	---	---	---	---	---	---	---	---	---
28	4.0	1.4	2.6	5.9	5.1	5.5	---	---	---	---	---	---
29	4.6	1.8	2.8	6.4	5.4	5.9	---	---	---	---	---	---
30	3.1	1.5	2.0	6.0	4.4	5.4	---	---	---	---	---	---
31	---	---	---	5.1	3.2	4.4	---	---	---	---	---	---
MONTH	8.0	.8	2.9	---	---	---	---	---	---	---	---	---
YEAR	8.0	.2	2.5									

03286500 KENTUCKY RIVER AT LOCK 7 NEAR HIGH BRIDGE, KY

LOCATION.--Lat 37°48'53", long 84°43'26", Jessamine County, Hydrologic Unit 05100205, on right bank at Lock 7, 0.45 mi northwest of High Bridge, 1.2 mi downstream from Dix River, 3.8 mi upstream of U.S. Highway 68 bridge, and at mile 117.

DRAINAGE AREA.--5,036 mi^2.

PERIOD OF RECORD.--October 1901 to September 1924 (gage-heights only), monthly discharge October 1924 to September 1927, December 1992 to current year.

GAGE.--Water-stage recorder. Datum of gage is 503.92 ft above sea level, Kentucky River datum.

REMARKS.--Estimated daily discharges: Oct. 1 to Sept. 30. Record fair above 1,000 ft^3/s and poor below. Daily discharges determined by drainage area factors to Lock 6 and Lock 9 records. Flow regulated since November 1925 by Herrington Lake, since December 1960 by Buckhorn Lake, since January 1976 by Carr Fork Lake, and by hydroelectric plant at lock 7.

COOPERATION.--Kentucky Utilities.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

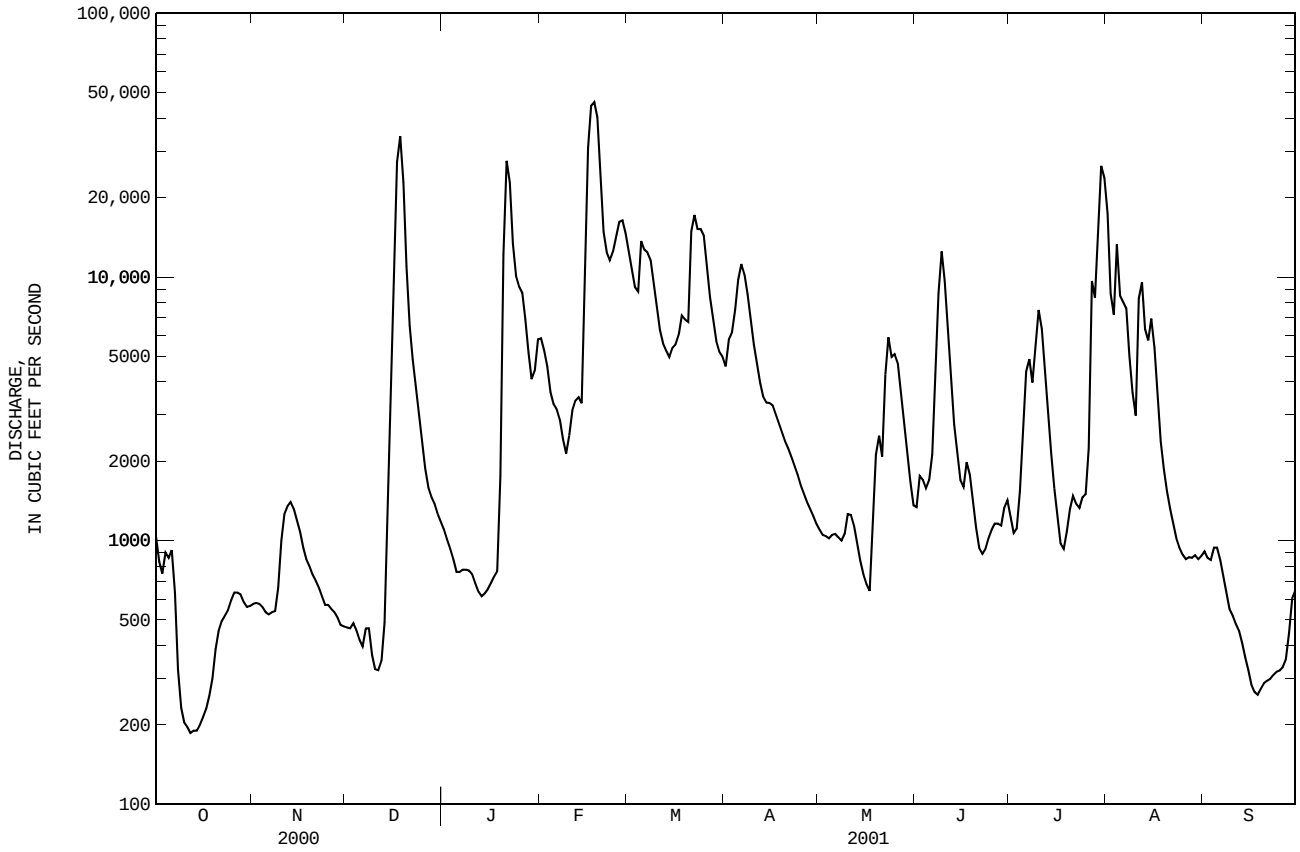
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1030	575	468	1100	5850	12600	4580	1100	1340	1230	17400	910
2	830	580	465	1010	5250	10700	5800	1050	1760	1070	8650	860
3	750	575	486	930	4580	9150	6150	1040	1700	1110	7200	845
4	900	560	458	850	3660	8800	7500	1020	1580	1540	13300	940
5	860	535	420	760	3300	13700	9750	1050	1700	2640	8500	940
6	920	525	397	760	3150	12700	11200	1060	2120	4380	8050	845
7	635	535	464	775	2870	12400	10200	1030	4020	4880	7600	725
8	324	540	465	775	2430	11600	8600	1000	8650	3980	5050	625
9	232	660	368	770	2140	9450	6800	1060	12500	5450	3640	550
10	204	1000	325	745	2500	7600	5550	1260	9650	7500	2980	520
11	196	1260	322	690	3120	6300	4680	1250	6100	6350	8300	483
12	186	1350	350	640	3400	5600	3980	1140	3940	4660	9550	456
13	190	1400	488	615	3500	5250	3510	970	2760	3140	6350	409
14	190	1320	1180	630	3320	4970	3340	840	2160	2160	5750	361
15	200	1200	3240	655	10000	5400	3330	745	1700	1580	6950	322
16	214	1080	7400	690	31000	5550	3260	685	1600	1220	5400	284
17	230	940	27300	730	44600	6050	3010	645	1980	975	3500	266
18	258	850	34200	765	46100	7150	2780	1100	1780	930	2380	260
19	299	800	22800	1760	40400	6900	2580	2120	1400	1080	1860	274
20	387	745	11000	12200	22800	6750	2380	2500	1120	1320	1540	288
21	454	705	6550	27600	14800	14900	2240	2080	935	1480	1320	294
22	496	665	4870	22800	12400	17200	2080	4260	890	1380	1170	299
23	520	615	3800	13400	11600	15200	1920	5900	930	1330	1020	309
24	545	570	3000	10100	12500	15200	1780	4980	1020	1460	940	318
25	595	570	2390	9200	14200	14400	1620	5100	1100	1500	885	321
26	635	550	1880	8700	16200	11100	1510	4700	1160	2240	850	331
27	635	535	1590	6900	16400	8400	1400	3530	1160	9650	865	354
28	625	510	1460	5150	14700	6850	1320	2740	1140	8350	860	446
29	585	478	1380	4100	---	5700	1240	2160	1330	15000	880	605
30	560	472	1260	4420	---	5200	1160	1680	1420	26400	850	645
31	565	---	1180	5800	---	4980	---	1360	---	23800	875	---
TOTAL	15250	22700	141956	146020	356770	287750	125250	61155	80645	149785	144465	15085
MEAN	492	757	4579	4710	12740	9282	4175	1973	2688	4832	4660	503
MAX	1030	1400	34200	27600	46100	17200	11200	5900	12500	26400	17400	940
MIN	186	472	322	615	2140	4970	1160	645	890	930	850	260

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2001, BY WATER YEAR (WY)

MEAN	1178	2878	5642	11060	11880	15920	10360	8276	5585	2536	1806	792
MAX	3052	9309	12670	22370	26380	29500	21390	22020	18360	4867	4660	2020
(WY)	1994	1997	1994	1994	1994	1997	1994	1995	1997	1998	2001	1996
MIN	324	521	1567	1876	6649	5553	3730	1973	417	435	306	153
(WY)	1998	2000	2000	2000	1999	2000	1999	2001	1999	1999	1999	1999

03286500 KENTUCKY RIVER AT LOCK 7 NEAR HIGH BRIDGE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1992 - 2001	
ANNUAL TOTAL	1338015		1546831			
ANNUAL MEAN	3656		4238		6469	
HIGHEST ANNUAL MEAN					11250	1994
LOWEST ANNUAL MEAN					3371	2000
HIGHEST DAILY MEAN	34200	Dec 18	46100	Feb 18	87900	Mar 2 1997
LOWEST DAILY MEAN	186	Oct 12	186	Oct 12	106	Sep 12 1999
ANNUAL SEVEN-DAY MINIMUM	197	Oct 10	197	Oct 10	120	Sep 7 1999
MAXIMUM PEAK FLOW			48000	Feb 17	92800	Mar 10 1994
MAXIMUM PEAK STAGE			21.73	Feb 17	37.90	Mar 10 1994
10 PERCENT EXCEEDS	8640		11400		16500	
50 PERCENT EXCEEDS	1800		1420		2540	
90 PERCENT EXCEEDS	478		455		445	



03287000 KENTUCKY RIVER AT LOCK 6, NEAR SALVISA, KY

LOCATION.--Lat 37°55'32", long 84°49'17", Woodford County, Hydrologic Unit 05100205, on right bank at lock 6, 1.5 mi upstream from Clear Creek, 2.1 mi east of Salvisa, and at mile 96.2.

DRAINAGE AREA.--5,102 mi^2, of which about 101 mi^2 does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1925 to current year. Prior to October 1953, published as "at lock 6, at Warwick."

REVISED RECORDS.--WSP 1385: 1926-27, 1928(M), 1929, 1931(M), 1932, 1933-34(M), 1935, 1937, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 489.90 ft, Kentucky River datum. Prior to November 1934, nonrecording gage at same site and datum. Auxiliary water-stage recorder at lock 5, 14 mi downstream. Prior to Sept. 30, 1981, nonrecording gage at same site and datum.

REMARKS.--Records good above 1,000 ft^3/s, fair below. Flow regulated since November 1925 by Herrington Lake, since December 1960 by Buckhorn Lake, since January 1976 by Carr Fork Lake, and by hydroelectric plant at lock 7.

COOPERATION.--Kentucky River Authority, U.S.Army Corps of Engineers, Louisville District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

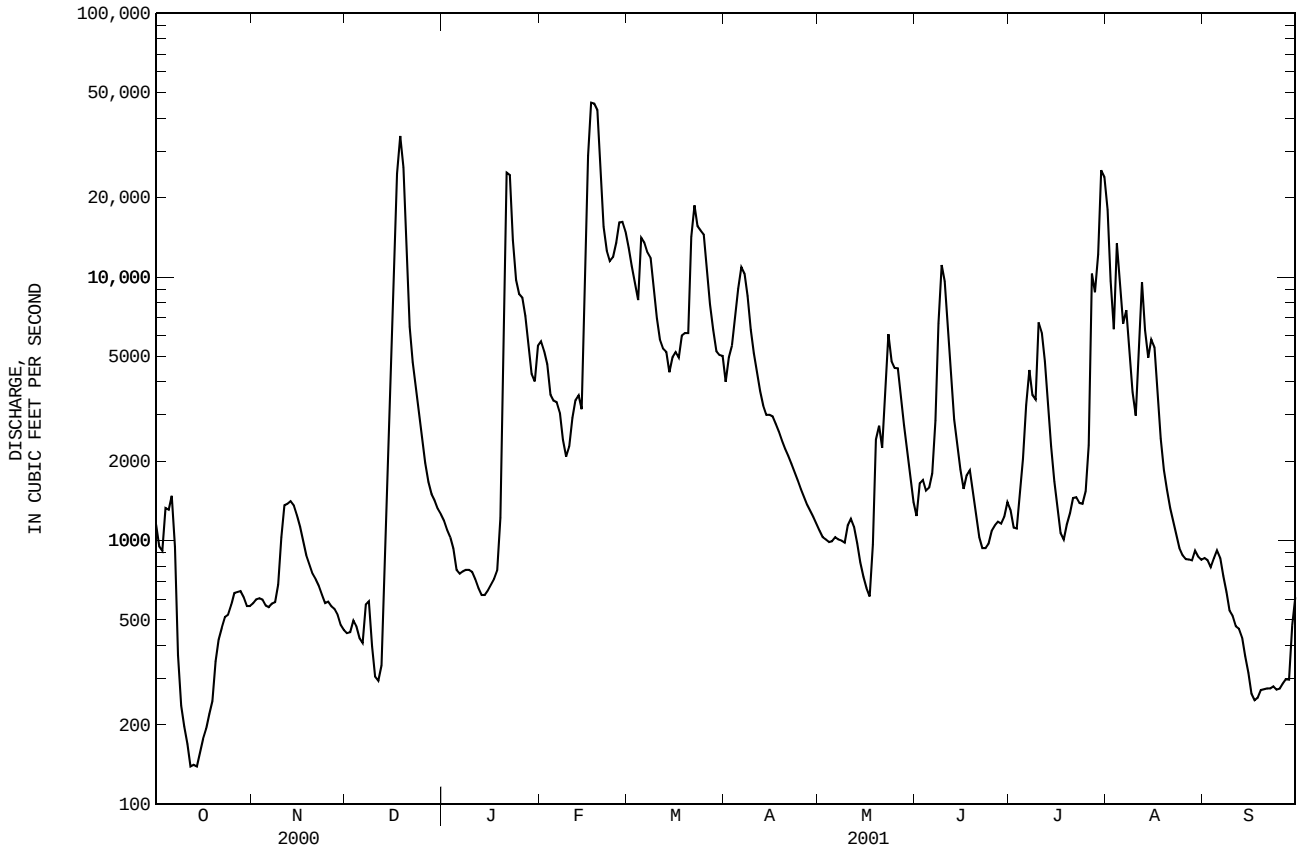
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1150	578	445	1190	5710	12900	4000	1090	1240	1310	18000	859
2	950	598	449	1100	5230	11000	4960	1030	1650	1120	9650	843
3	914	604	497	1030	4670	9500	5490	1010	1700	1110	6340	793
4	1330	597	473	934	3580	8170	7110	987	1550	1550	13400	858
5	1310	567	426	774	3400	14100	9020	994	1590	2040	9280	919
6	1480	559	409	749	3350	13500	10900	1030	1800	3270	6660	860
7	947	577	573	764	3050	12400	10300	1010	2850	4440	7490	735
8	368	584	589	774	2410	11800	8470	1000	6680	3570	5100	639
9	236	680	397	774	2080	9150	6300	982	11100	3430	3660	543
10	197	1030	305	761	2270	6980	5140	1140	9630	6730	2980	518
11	169	1360	294	715	2920	5800	4320	1210	6150	6150	5680	473
12	139	1380	336	661	3410	5350	3700	1130	4060	4790	9560	463
13	141	1410	583	622	3560	5200	3250	977	2880	3300	6290	428
14	139	1360	1050	622	3150	4350	3000	828	2330	2280	4940	364
15	156	1250	2360	648	8210	4970	3000	729	1860	1680	5800	315
16	177	1130	5410	680	28900	5190	2960	661	1570	1330	5420	263
17	193	991	24700	716	45900	4940	2780	614	1770	1070	3610	248
18	220	879	34300	770	45500	5990	2590	966	1850	1010	2440	253
19	246	811	26100	1220	43100	6130	2400	2420	1530	1150	1850	271
20	348	749	12100	7600	26100	6130	2230	2730	1240	1270	1560	273
21	421	713	6470	24900	15500	14200	2100	2250	1030	1450	1330	275
22	467	674	4750	24400	12600	18700	1960	3710	936	1460	1190	275
23	513	624	3730	13800	11500	15600	1820	6070	936	1390	1050	280
24	523	579	3040	9750	11900	15000	1700	4790	974	1380	936	272
25	570	586	2440	8630	13500	14500	1570	4520	1090	1540	879	274
26	632	563	1970	8360	16100	10900	1470	4510	1140	2300	850	287
27	638	551	1670	7110	16200	7870	1370	3520	1180	10300	848	298
28	643	523	1500	5430	14900	6300	1300	2730	1160	8760	841	297
29	610	479	1420	4300	---	5230	1230	2190	1230	12200	916	478
30	565	458	1320	4020	---	5060	1160	1740	1400	25400	868	609
31	565	---	1260	5500	---	5020	---	1400	---	24000	846	---
TOTAL	16957	23444	141366	139304	358700	281930	117600	59968	76106	142780	140264	14263
MEAN	547	781	4560	4494	12810	9095	3920	1934	2537	4606	4525	475
MAX	1480	1410	34300	24900	45900	18700	10900	6070	11100	25400	18000	919
MIN	139	458	294	622	2080	4350	1160	614	936	1010	841	248

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2001, BY WATER YEAR (WY)

MEAN	1856	3961	8652	10810	12450	14890	11340	8067	4405	2256	1966	1626
MAX	13680	12450	31030	31910	34850	33640	35920	26910	18890	5441	6238	10860
(WY)	1990	1987	1979	1974	1989	1975	1972	1983	1997	1998	1992	1974
MIN	312	493	525	502	2655	3769	1491	1127	362	420	277	188
(WY)	1981	1988	1966	1981	1968	1983	1986	1976	1988	1999	1986	1999

03287000 KENTUCKY RIVER AT LOCK 6, NEAR SALVISA, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1961 - 2001	
ANNUAL TOTAL	1401327		1512682			
ANNUAL MEAN	3829		4144		6831	
HIGHEST ANNUAL MEAN					11050	1994
LOWEST ANNUAL MEAN					2826	1988
HIGHEST DAILY MEAN	36400	Feb 19	45900	Feb 17	125000	Dec 10 1978
LOWEST DAILY MEAN	139	Oct 12	139	Oct 12	83	Sep 4 1984
ANNUAL SEVEN-DAY MINIMUM	159	Oct 11	159	Oct 11	112	Nov 8 1991
MAXIMUM PEAK FLOW			47500	Feb 17	130000	Dec 10 1978
MAXIMUM PEAK STAGE			20.77	Feb 17	49.04	Dec 10 1978
10 PERCENT EXCEEDS	9330		11000		17400	
50 PERCENT EXCEEDS	1880		1450		2950	
90 PERCENT EXCEEDS	492		438		467	



03287500 KENTUCKY RIVER AT LOCK 4, AT FRANKFORT, KY

LOCATION.--Lat 38°12'06", long 84°52'54", Franklin County, Hydrologic Unit 05100205, on left bank at downstream side of Broadway Street Bridge at Frankfort, 300 ft upstream from Benson Creek, 0.8 mi upstream from lock 4, and at mile 65.8. Records include flow of Benson Creek.

DRAINAGE AREA.--5,411 mi^2, (includes that of Benson Creek), of which about 120 mi^2 does not contribute directly to surface runoff.

PERIOD OF RECORD.--March 1905 to July 1906 (gage heights only), October 1925 to current year. Monthly discharge only October 1930 to February 1931, October, November 1931, and May to September 1932, published in WSP 1305. Gage-height records collected in this vicinity September 1887 to December 1889, January to May 1893, and since April 1901 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 1113: 1941-42. WSP 1385: 1926-27, 1929(M), 1932-33, 1935-37, 1938(M), drainage area. WSP 1555: 1932(M).

GAGE.--Water-stage recorder. Datum of gage is 462.10 ft above NGVD of 1929. See WDR KY-90-1 for history of changes prior to Jan. 28, 1982.

REMARKS.--Record fair except those for estimated daily discharges, which are poor. Flow regulated since November 1925 by Herrington Lake, since December 1960 by Buckhorn Lake, since January 1976 by Carr Fork Lake, and by hydroelectric plant at lock 7.

COOPERATION.--U.S. Army Corps of Engineers, Louisville District and Kentucky River Authority.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1210	501	477	1360	6590	14300	4900	1060	1410	1110	20300	781
2	936	509	475	1230	6070	12200	5640	994	1670	893	12200	800
3	732	511	503	1230	5340	10500	6820	968	1900	807	7650	803
4	1170	505	483	1140	4580	11900	7880	943	1770	1470	13800	787
5	1280	490	456	880	4050	16500	9680	919	1750	1750	11800	792
6	1480	493	437	824	4130	16200	11600	951	1830	2840	7660	775
7	1190	527	496	836	3840	13900	11500	960	2780	4280	8580	703
8	505	512	554	888	3250	13300	9910	1010	6410	3840	6490	591
9	346	663	488	917	2680	11100	7740	936	10800	3080	4430	516
10	295	1030	406	904	3560	8540	6340	1040	10900	6130	3460	485
11	275	1280	383	879	3750	7220	5380	1230	7280	6850	4780	430
12	264	1320	376	821	4120	6340	4390	1240	4600	5250	11000	409
13	260	1330	497	788	4430	6560	3810	1020	3130	3620	8000	391
14	256	1330	1550	781	4200	5210	3440	852	2430	2370	5850	355
15	252	1210	2410	849	9940	5460	3380	732	1960	1700	6300	325
16	255	1090	14400	915	28100	6420	3330	642	1610	1200	6620	298
17	269	957	26500	931	44600	5620	3160	609	1630	886	4520	282
18	284	853	34400	968	45600	6730	2940	1530	1860	849	2970	274
19	297	771	30300	1900	43900	7160	2710	3400	1560	843	2100	313
20	319	699	16100	6820	31100	6920	2490	3680	1120	951	1730	347
21	378	670	8380	22600	18300	13900	2330	3730	869	1150	1430	312
22	434	635	6360	29400	14100	21100	2190	5170	747	1250	1190	302
23	472	597	e4000	e18000	12400	17700	2040	e8000	717	e1260	1020	314
24	485	562	e3300	e11000	12300	16400	1880	e6200	756	e1270	894	333
25	506	663	e2800	e9200	15000	16000	1740	e5600	813	1290	822	319
26	564	681	e2100	e9000	17800	13100	1620	5360	857	3030	797	317
27	580	610	e1930	e7800	17900	9450	1490	4360	880	9300	815	309
28	573	564	1790	6440	16800	7630	1350	3350	878	10100	770	320
29	553	517	1690	4970	---	6440	1240	2580	933	10500	954	352
30	519	493	1560	4890	---	5710	1150	2050	1090	23900	867	451
31	499	---	1440	6080	---	6250	---	1660	---	25700	800	---
TOTAL	17438	22573	167041	155241	388430	325760	134070	72776	76940	139469	160599	13786
MEAN	563	752	5388	5008	13870	10510	4469	2348	2565	4499	5181	460
MAX	1480	1330	34400	29400	45600	21100	11600	8000	10900	25700	20300	803
MIN	252	490	376	781	2680	5210	1150	609	717	807	770	274

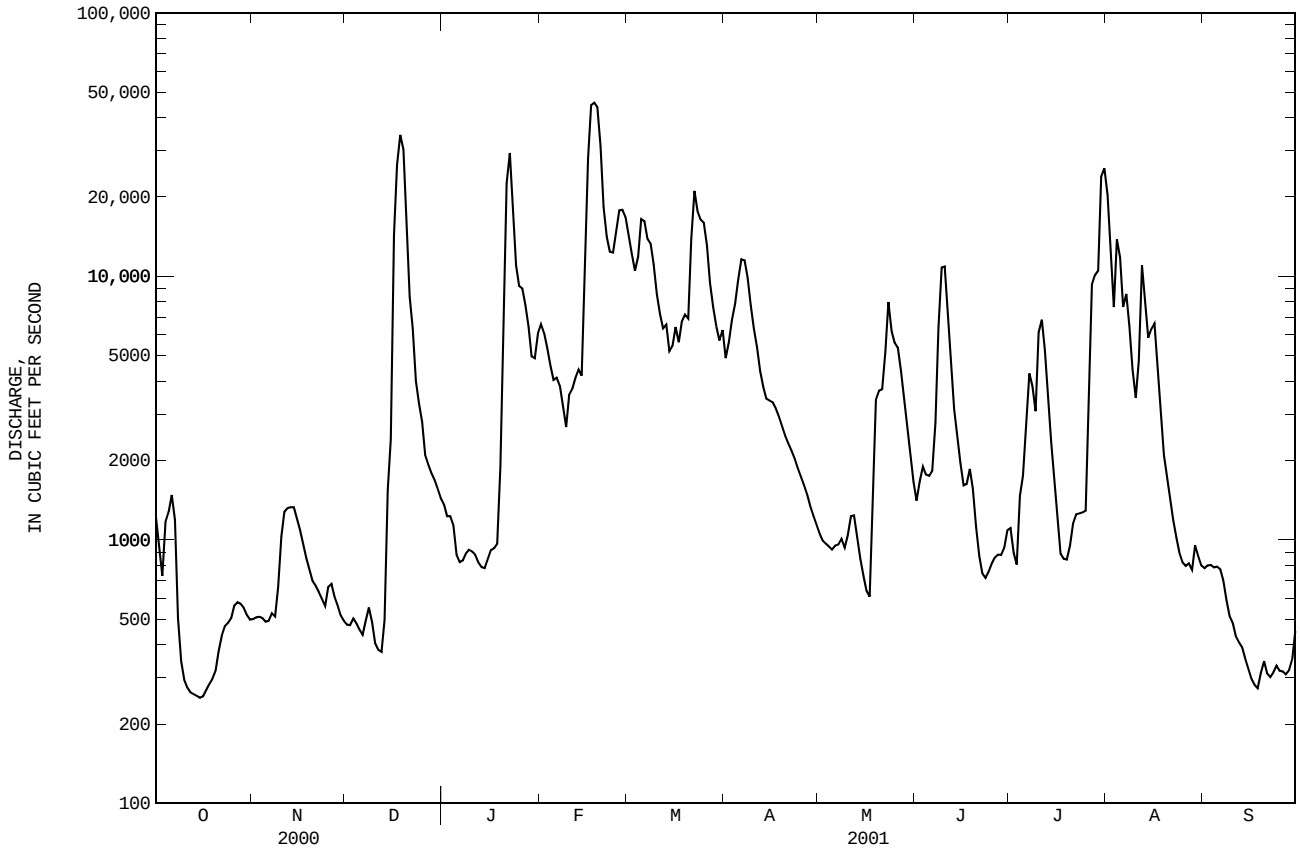
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2001, BY WATER YEAR (WY)

MEAN	1956	4235	9185	11410	13100	15810	11800	8454	4651	2421	2114	1752
MAX	13240	13700	33220	33500	35680	34760	36690	28200	20840	6446	6433	10980
(WY)	1990	1987	1979	1974	1989	1975	1972	1983	1997	1998	1992	1974
MIN	289	542	566	540	2885	4175	1518	1142	417	568	336	207
(WY)	1981	1966	1966	1981	1968	1983	1986	1976	1988	1970	1986	1999

03287500 KENTUCKY RIVER AT LOCK 4, AT FRANKFORT, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1961 - 2001	
ANNUAL TOTAL	1583336		1674123			
ANNUAL MEAN	4326		4587		7215	
HIGHEST ANNUAL MEAN					11860	1979
LOWEST ANNUAL MEAN					3182	1988
HIGHEST DAILY MEAN	40100	Feb 19	45600	Feb 18	116000	Dec 10 1978
LOWEST DAILY MEAN	238	Jun 14	252	Oct 15	93	Jul 10 1988
ANNUAL SEVEN-DAY MINIMUM	262	Oct 11	262	Oct 11	125	Sep 29 1999
MAXIMUM PEAK FLOW			46900	Feb 17	118000	Dec 9 1978
MAXIMUM PEAK STAGE			19.94	Feb 17	48.47	Dec 10 1978
10 PERCENT EXCEEDS	10900		12200		17900	
50 PERCENT EXCEEDS	1960		1550		3200	
90 PERCENT EXCEEDS	465		436		511	

e Estimated



03287580 NORTH ELKHORN CREEK AT BRYANT ROAD NEAR CADENTOWN, KY

LOCATION.--Lat 38°01'42", long 84°24'07", Fayette County, Hydrologic Unit 05100205, on right bank, downstream side of bridge on Bryant Road, 0.7 miles northeast of intersection with I-75, 1.6 miles southeast of intersection of US 60 (Winchester Road), 1.8 miles northeast of Cadentown, and at mile 90.3.

DRAINAGE AREA.--2.20 mi^2.

PERIOD OF RECORD.--October 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage is 942.109 ft above NGVD of 1929.

REMARKS.--Records fair except for those below 2.0 ft^3/s and those estimated, which are poor.

COOPEARTION.--Lexington Fayette Urban County Government.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.81	.05	.11	e.28	2.2	2.9	1.8	.25	.79	.00	.32	.20
2	.78	.05	.09	e.26	1.8	2.5	1.5	.33	.71	.00	.25	.19
3	.74	.04	e.08	e.25	1.5	2.2	2.3	.29	.54	.13	6.1	.18
4	.71	.05	e.07	e.24	1.4	10	1.9	.24	.64	.64	4.1	.20
5	.52	.04	e.07	e.24	1.3	12	1.7	.22	.58	.26	1.0	.19
6	.47	.05	e.06	e.23	1.2	6.4	1.5	.20	.57	.19	.51	.17
7	.47	.07	e.06	e.23	1.2	4.4	1.3	.35	.49	.15	.29	.17
8	.46	.07	e.06	e.22	1.1	3.3	1.2	.46	.42	.14	.25	.11
9	.45	.50	e.06	e.22	.74	2.6	.93	.33	.35	.26	.22	.10
10	.38	.87	e.05	e.21	1.6	2.2	.60	.27	.28	.17	.20	.09
11	.28	.42	e.05	e.21	1.3	1.9	.52	.22	.24	.11	.44	.07
12	.25	.30	e.05	e.20	1.7	1.9	.47	.27	.24	.07	.60	.17
13	.23	.21	.22	e.20	1.5	2.1	.44	.23	.24	.05	.25	.14
14	.20	.16	2.1	e.20	2.2	1.8	.42	.17	.20	.03	.18	.07
15	.19	.13	1.9	e.20	9.9	1.7	.42	.14	.15	.00	.19	.21
16	.18	.12	14	e.19	20	1.7	.40	.12	.17	.00	.21	.10
17	.16	.11	9.2	e.19	16	1.6	.39	.25	.13	.00	.22	.06
18	.17	.10	2.1	e.19	7.9	1.5	.37	.82	.12	.26	.22	.02
19	.15	.09	e1.1	2.4	5.5	1.4	.35	13	.13	.23	.18	.03
20	.13	.08	e.96	2.2	4.2	3.4	.36	8.4	.08	.18	.18	.13
21	.12	.06	e.78	1.4	3.3	e14	.34	3.8	.06	.16	.18	.12
22	.14	e.06	e.66	1.1	3.0	8.3	.32	20	.19	.19	.16	.09
23	.14	e.05	e.58	.98	2.6	5.0	.30	7.8	.19	.23	.14	.05
24	.13	e.05	e.51	.97	2.3	3.5	.31	4.5	.14	.21	.16	.06
25	.14	.17	e.46	.93	8.3	2.5	.31	2.8	.10	.20	.13	.08
26	.14	.22	e.42	.90	6.4	2.0	.30	1.3	.07	2.3	.17	.07
27	.12	.22	e.37	.89	4.6	1.7	.29	.86	.07	.56	.21	.04
28	.11	.18	e.35	.90	3.5	1.5	.29	.72	.03	.41	.21	.02
29	.10	.15	e.33	1.2	---	1.4	.28	.61	.01	.58	.20	.01
30	.08	.13	e.30	4.7	---	1.3	.27	.52	.01	.50	.19	.00
31	.06	---	e.29	3.1	---	1.3	---	.46	---	.41	.18	---
TOTAL	9.01	4.80	37.44	25.63	118.24	110.0	21.88	69.93	7.94	8.62	17.84	3.14
MEAN	.29	.16	1.21	.83	4.22	3.55	.73	2.26	.26	.28	.58	.10
MAX	.81	.87	14	4.7	20	14	2.3	20	.79	2.3	6.1	.21
MIN	.06	.04	.05	.19	.74	1.3	.27	.12	.01	.00	.13	.00

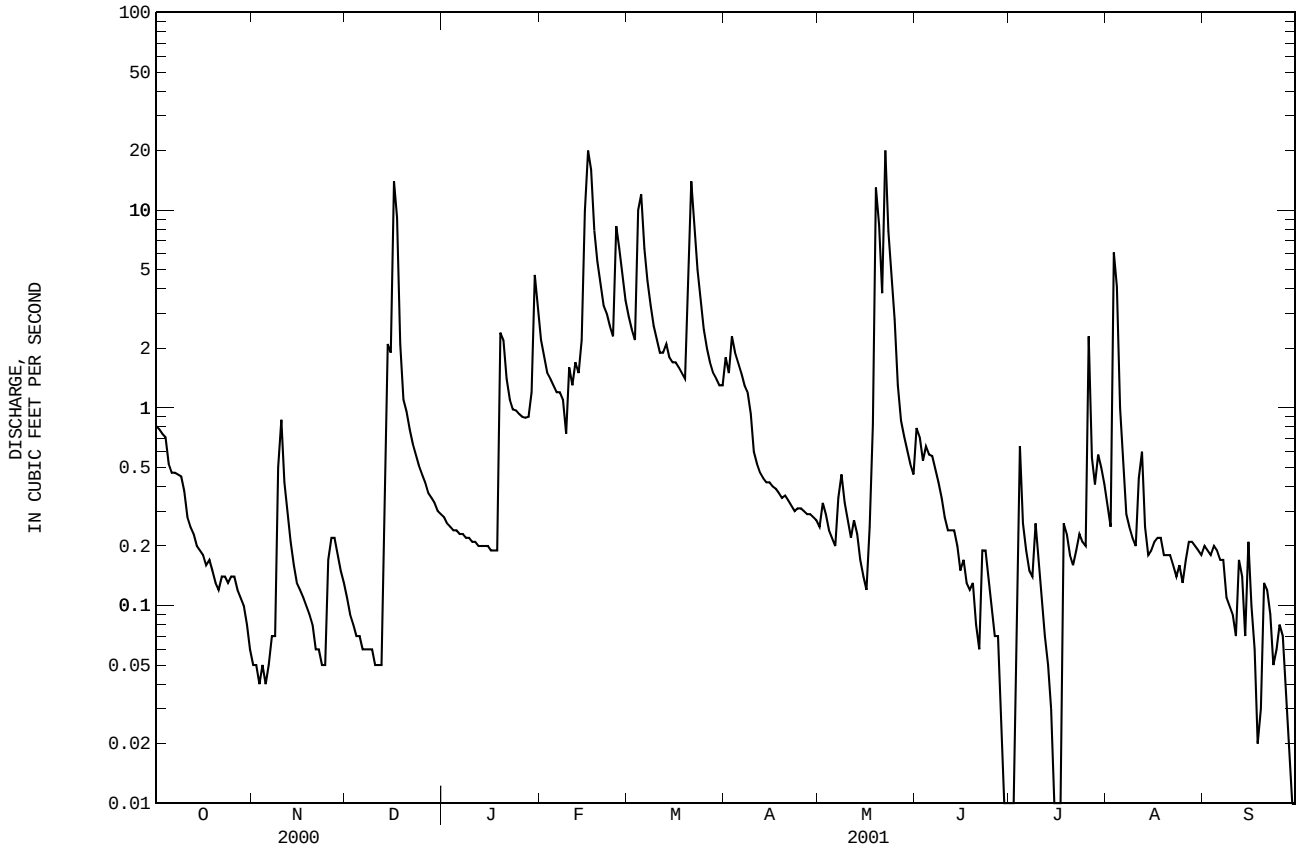
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	.15	.19	1.08	3.36	4.64	4.05	2.39	2.01	2.00	1.67	.18	.20
MAX	.29	.50	1.84	6.35	6.84	5.06	6.19	5.27	7.61	6.20	.58	.63
(WY)	2001	1998	1999	1998	1998	1999	1998	1998	1998	1998	2001	2000
MIN	.000	.000	.068	.25	3.02	3.55	.73	.20	.028	.016	.000	.000
(WY)	2000	2000	2000	2000	2000	2001	2001	1999	1999	1999	1999	1999

03287580 NORTH ELKHORN CREEK AT BRYANT ROAD NEAR CADENTOWN, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001	
ANNUAL TOTAL	354.38		434.47			
ANNUAL MEAN	.97		1.19		1.81	
HIGHEST ANNUAL MEAN					3.66	1998
LOWEST ANNUAL MEAN					.83	2000
HIGHEST DAILY MEAN	34	Mar 20	20	Feb 16	89	Jul 20 1998
LOWEST DAILY MEAN	.00	Jan 1	.00	Jul 1	.00	Oct 1 1997
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 16	.03	Jun 26	.00	Oct 1 1997
MAXIMUM PEAK FLOW			57	Dec 16	281	Jun 29 1998
MAXIMUM PEAK STAGE			2.41	Dec 16	5.11	Jun 29 1998
INSTANTANEOUS LOW FLOW			.00	Jul 1	.00	Jul 1 2001
10 PERCENT EXCEEDS	2.0		2.7		4.6	
50 PERCENT EXCEEDS	.21		.26		.28	
90 PERCENT EXCEEDS	.00		.06		.00	

e Estimated



03287590 NORTH ELKHORN CREEK AT WINCHESTER ROAD NEAR LEXINGTON, KY

LOCATION.--Lat 38°02'54", long 84°24'40", Fayette County, Hydrologic Unit 05100205, on right bank, downstream side of culvert on Winchester Road (US 60), 0.5 miles east of I-75, 0.8 miles west of intersection with Bryant Road (1425), 2.2 miles east of Lexington, and at mile 89.1.

DRAINAGE AREA.--4.05 mi^2.

PERIOD OF RECORD.--October 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 921.258 ft above NGVD of 1929.

REMARKS.--Records fair except for discharges below 5.0 ft^3/s and for periods of estimated record, which are poor.

COOPERATION.--Lexington Fayette Urban County Government.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	.16	.40	e3.4	14	4.6	7.9	.26	4.5	.28	1.2	.70
2	.70	.18	e.52	e3.2	9.7	3.9	3.1	.28	1.9	.27	.82	.44
3	.97	.15	e.41	e3.0	5.8	3.0	7.2	.62	1.4	3.5	34	.27
4	.93	.15	e.36	e2.8	4.6	56	4.1	.37	3.1	8.2	18	.82
5	.72	.15	e.31	e2.6	3.6	46	3.4	.26	1.6	2.0	7.5	.27
6	.66	1.7	e.28	e2.4	2.9	19	3.1	1.1	1.4	1.1	3.6	.20
7	.36	1.3	.26	e2.3	2.1	7.8	2.8	1.5	.96	.77	1.3	.17
8	.30	.20	.29	e2.2	1.7	4.3	2.5	3.3	.76	1.1	.89	.11
9	.27	11	.30	e2.1	7.3	2.9	2.1	1.1	.56	2.5	.61	.08
10	.31	4.0	.38	e2.0	11	2.2	1.5	.69	.38	.84	1.1	.18
11	.25	1.4	.28	e1.9	4.5	1.8	1.3	.43	.30	.56	4.6	.17
12	.13	.68	.71	e1.9	5.6	3.5	1.2	1.6	.28	.41	4.4	.10
13	.12	.45	9.3	e1.8	4.3	3.6	1.1	.48	.25	.27	1.4	.08
14	.12	.35	20	e2.1	16	2.2	1.0	.30	.23	.21	.69	.07
15	.09	.29	9.4	e2.6	66	2.1	1.2	.24	1.1	.16	.50	.23
16	.10	.26	98	e3.1	98	2.8	.98	.19	.48	.14	.38	.23
17	.15	.32	68	e3.8	69	2.1	1.0	2.5	.21	.72	.44	.09
18	.23	.29	32	e4.7	30	1.7	.86	14	.14	6.2	.31	.06
19	.13	e.27	e19	31	17	1.7	.74	59	.11	2.2	.32	1.6
20	.18	e.26	e15	e20	10	22	1.2	14	.10	.67	.26	2.1
21	1.0	e.25	e12	e13	6.0	67	.78	6.7	.14	.44	.21	.27
22	.39	e.24	e9.6	e8.5	5.3	26	.60	53	2.1	1.4	.18	.21
23	.19	e.23	e8.2	e6.7	4.4	11	.49	12	.23	.55	.37	.16
24	.20	.33	e7.4	5.2	3.3	5.0	.54	8.0	.12	.32	.36	1.9
25	1.4	4.7	e6.5	4.4	50	3.4	.42	4.4	.08	1.2	.27	.34
26	.57	1.7	e5.7	3.6	23	2.7	.39	3.1	.06	33	3.5	.19
27	.64	.72	e5.2	3.5	13	2.3	.36	2.6	.05	6.6	1.3	.14
28	.51	.46	e4.7	2.8	7.3	2.1	.32	1.9	.20	5.5	.70	.09
29	.40	.35	e4.3	7.6	---	1.9	.31	1.4	.34	8.8	.54	.07
30	.25	.42	e4.0	31	---	2.0	.26	1.2	.26	4.2	.42	.05
31	.19	---	e3.6	20	---	2.1	---	1.1	---	2.1	.58	---
TOTAL	13.16	32.96	346.40	205.2	495.4	318.7	52.75	197.62	23.34	96.21	90.75	11.39
MEAN	.42	1.10	11.2	6.62	17.7	10.3	1.76	6.37	.78	3.10	2.93	.38
MAX	1.4	11	98	31	98	67	7.9	59	4.5	33	34	2.1
MIN	.09	.15	.26	1.8	1.7	1.7	.26	.19	.05	.14	.18	.05

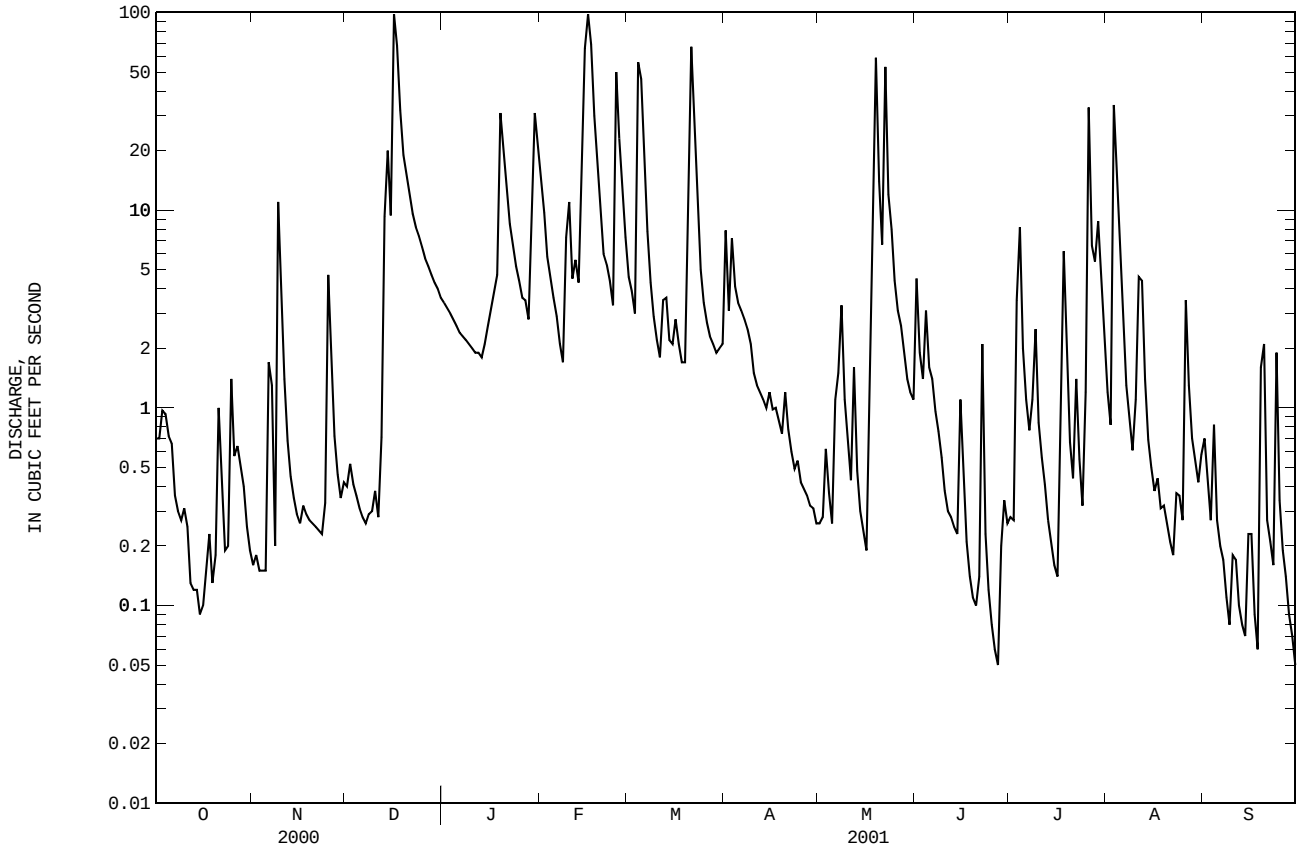
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	.64	1.09	4.55	8.81	12.6	9.39	5.22	4.81	4.51	5.98	1.02	1.32
MAX	1.29	1.73	11.2	13.7	17.7	11.8	12.3	11.0	15.3	18.6	2.93	4.48
(WY)	1999	1998	2001	1999	2001	1999	1998	1998	1998	1998	2001	2000
MIN	.33	.67	1.40	2.25	9.70	6.88	1.49	.49	.78	.62	.16	.14
(WY)	1998	2000	2000	2000	2000	1998	1999	1999	2001	1999	1999	1999

03287590 NORTH ELKHORN CREEK AT WINCHESTER ROAD NEAR LEXINGTON, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001	
ANNUAL TOTAL	1450.77		1883.88			
ANNUAL MEAN	3.96		5.16		4.96	
HIGHEST ANNUAL MEAN					7.88	1998
LOWEST ANNUAL MEAN					3.11	2000
HIGHEST DAILY MEAN	119	Feb 18	98	Dec 16	357	Jul 20 1998
LOWEST DAILY MEAN	.02	Jul 28	.05	Jun 27	.00	Oct 5 1997
ANNUAL SEVEN-DAY MINIMUM	.05	Aug 17	.11	Sep 8	.00	Oct 5 1997
MAXIMUM PEAK FLOW			422	Dec 16	1640	Jul 20 1998
MAXIMUM PEAK STAGE			5.49	Dec 16	6.78	Jul 20 1998
INSTANTANEOUS LOW FLOW			.00	Nov 8	.00	Nov 8 2000
10 PERCENT EXCEEDS	9.4		11		12	
50 PERCENT EXCEEDS	.62		1.2		1.0	
90 PERCENT EXCEEDS	.11		.18		.05	

e Estimated



03287600 NORTH ELKHORN CREEK AT BRYAN STATION ROAD AT MONTROSE, KY

LOCATION.--Lat 38°04'35", long 84°24'48", Fayette County, Hydrologic Unit 05100205, on right bank, downstream side of bridge on Bryan Station Road (Highway 57), 100 ft southwest of intersection of Briar Hill Road (highway 1970) and Bryan Station Road (Highway 57), 0.5 miles Northwest of Montrose, amd at mile 86.0.

DRAINAGE AREA.--21.5 mi^2.

PERIOD OF RECORD.--October 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage is 892.042 ft above NGVD of 1929.

REMARKS.--Records fair except for those below 10 ft^3/s and those estimated, which are poor.

COOPERATION.--Lexington-Fayette Urban County Government.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	.85	1.2	e3.8	37	22	37	1.8	20	.57	2.7	.69
2	4.5	.82	1.2	e3.6	25	19	18	1.7	5.9	.50	1.7	.70
3	3.8	.80	1.3	e3.5	19	13	48	1.7	3.6	9.5	96	.60
4	3.2	.75	1.6	e3.5	14	150	35	1.7	19	25	33	.83
5	2.4	.74	1.2	e3.4	11	149	26	1.4	5.9	3.7	9.3	1.0
6	1.8	.71	1.2	e3.3	9.2	80	21	1.1	4.8	1.7	5.1	.65
7	1.8	4.0	1.1	e3.2	7.4	52	16	3.7	4.1	1.2	3.3	.53
8	1.6	1.5	1.1	e3.7	6.4	34	13	9.4	2.9	.96	2.4	.46
9	1.5	26	1.0	e3.6	13	23	11	3.0	2.2	3.7	2.2	.43
10	1.3	8.1	1.0	e3.5	48	17	9.1	2.0	1.9	1.3	2.9	.40
11	1.1	3.3	1.1	e3.4	21	14	8.1	1.6	1.7	.89	9.4	.34
12	1.0	2.3	1.3	e3.5	17	16	6.9	6.2	1.5	.70	5.6	.26
13	.95	1.8	15	e3.7	13	25	5.9	2.0	1.5	.59	2.8	.20
14	.95	1.6	53	e4.0	31	14	5.4	1.4	1.4	.43	1.5	.15
15	.80	1.3	9.9	e4.3	160	13	6.3	1.1	1.3	.37	1.2	.09
16	.82	1.2	298	e5.0	271	13	5.6	.94	1.8	.33	.94	.03
17	.79	1.1	234	e6.0	197	11	5.1	1.2	1.1	.36	1.6	.00
18	1.0	1.0	73	e8.0	99	8.7	4.6	27	.98	14	.89	.00
19	.94	.95	39	69	63	7.8	4.3	186	.89	5.1	.75	6.2
20	.83	.90	e26	61	41	60	5.7	74	.82	13	.66	14
21	.94	.83	e18	43	26	214	4.5	44	.74	3.1	.55	1.5
22	3.0	.78	e13	e34	22	117	3.9	238	5.3	3.0	.49	.83
23	1.1	.78	e11	e28	17	70	3.7	81	1.9	1.9	.47	.65
24	.93	.80	e8.6	e22	13	46	3.6	67	1.2	1.1	.88	1.7
25	2.1	7.2	e7.0	19	132	29	3.1	37	.92	4.1	.66	1.2
26	1.2	3.6	e6.2	e14	80	21	2.9	17	.77	116	2.6	.62
27	.95	2.6	e5.6	12	49	15	2.8	14	.65	23	1.8	.48
28	.91	1.8	e5.0	11	32	12	2.7	6.6	.56	8.1	1.0	.34
29	.87	1.5	e4.7	14	---	11	2.1	4.5	.58	19	1.1	.27
30	.91	1.3	e4.3	84	---	10	1.8	3.5	.68	7.6	.91	.22
31	.87	---	e4.0	57	---	11	---	3.0	---	4.1	.69	---
TOTAL	49.56	80.91	849.6	541.0	1474.0	1297.5	323.1	844.54	96.59	274.90	195.09	35.37
MEAN	1.60	2.70	27.4	17.5	52.6	41.9	10.8	27.2	3.22	8.87	6.29	1.18
MAX	4.7	26	298	84	271	214	48	238	20	116	96	14
MIN	.79	.71	1.0	3.2	6.4	7.8	1.8	.94	.56	.33	.47	.00

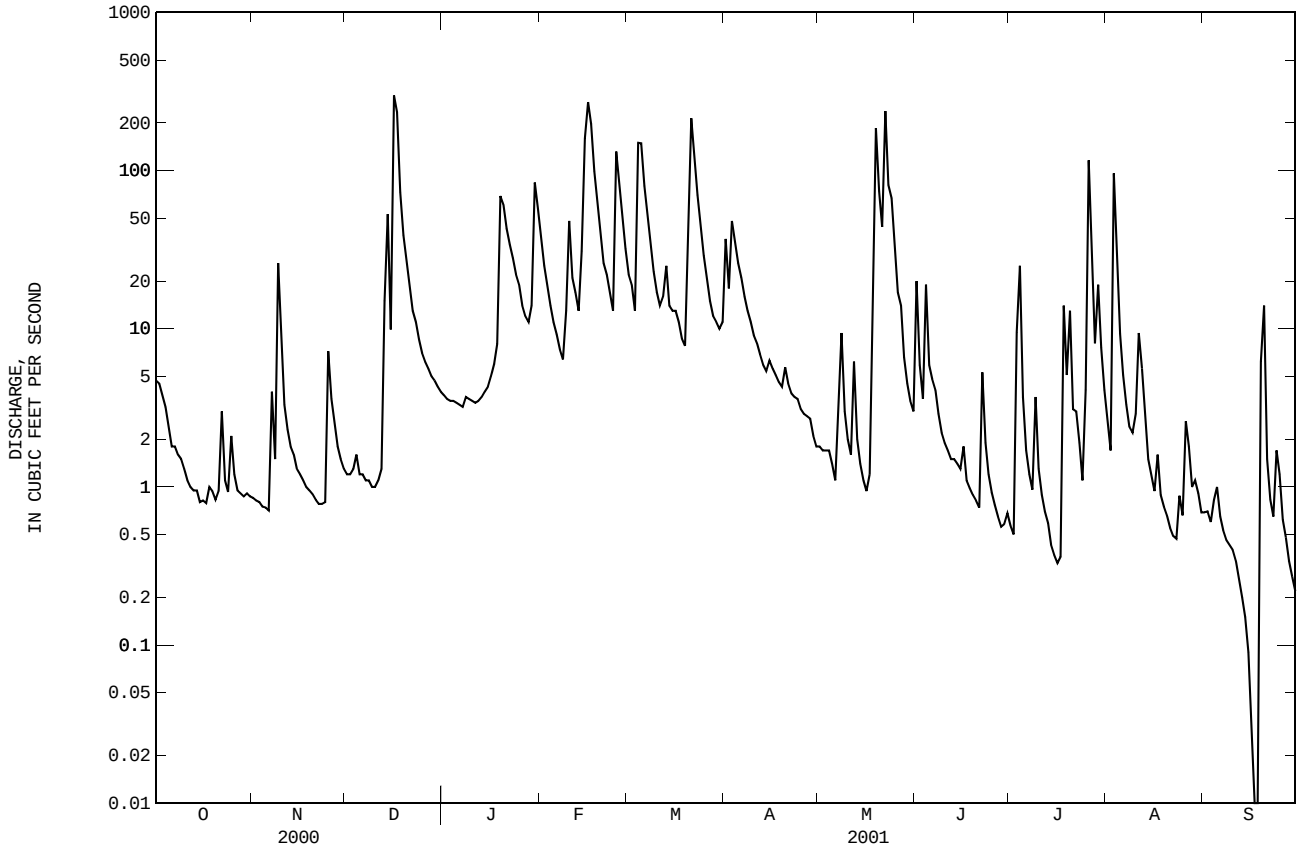
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	2.16	3.82	16.6	40.4	53.9	42.2	25.3	21.7	32.5	24.7	3.35	5.95
MAX	4.16	6.43	27.4	65.5	67.5	50.9	57.0	48.9	118	84.5	6.29	22.0
(WY)	1999	1998	2001	1999	1998	1999	1998	1998	1998	1998	2001	2000
MIN	1.03	2.26	6.78	15.8	39.0	30.3	8.29	4.00	3.22	1.06	1.13	.007
(WY)	1998	2000	2000	2000	1999	1998	1999	1999	2001	1999	1998	1999

03287600 NORTH ELKHORN CREEK AT BRYAN STATION ROAD AT MONTROSE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001	
ANNUAL TOTAL	6588.51		6062.16			
ANNUAL MEAN	18.0		16.6		22.5	
HIGHEST ANNUAL MEAN					40.7	1998
LOWEST ANNUAL MEAN					16.2	2000
HIGHEST DAILY MEAN	608	Feb 18	298	Dec 16	1830	Jul 20 1998
LOWEST DAILY MEAN	.06	Aug 22	.00	Sep 17	.00	Oct 8 1997
ANNUAL SEVEN-DAY MINIMUM	.16	Aug 17	.10	Sep 12	.00	Sep 8 1998
MAXIMUM PEAK FLOW			1110	Dec 16	7900	Jun 29 1998
MAXIMUM PEAK STAGE			5.35	Dec 16	10.23	Jun 29 1998
INSTANTANEOUS LOW FLOW					.00	Aug 7 1999
10 PERCENT EXCEEDS	38		42		49	
50 PERCENT EXCEEDS	4.6		3.5		4.8	
90 PERCENT EXCEEDS	.67		.69		.18	

e Estimated



03288100 NORTH ELKHORN CREEK AT GEORGETOWN, KY

LOCATION.--Lat 38°13'10", long 84°33'47", Scott County, Hydrologic Unit 05100205, on right bank, 300 ft upstream of bridge on Highway 25 at Georgetown, 0.4 mi downstream from Dry Run, and at mile 33.4.

DRAINAGE AREA.--147 mi^2, of which about 8 mi^2 does not contribute directly to surface runoff.

PERIOD OF RECORD.--December 1992 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 803.40 ft above NGVD of 1929. Prior to Oct. 1, 1994 at datum 3.40 ft. lower.

REMARKS.--Records good except for those below 80 ft^3/s and those estimated, which are fair.

COOPERATION.--City of Georgetown.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	2100	3,230	8.01	Jul 28	2300	5,100	9.57
Jul 22	1900	*7,860	*11.66	Aug 3	1100	3,190	7.97

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	7.1	28	e36	331	223	124	16	60	19	205	e40
2	52	8.1	26	31	249	191	164	14	94	18	138	e39
3	43	8.2	25	30	194	158	206	13	83	15	1450	e26
4	34	8.8	24	28	161	564	267	11	79	52	921	e47
5	28	12	23	25	137	1270	219	11	131	74	420	57
6	27	11	23	26	115	746	192	9.7	115	69	240	36
7	24	15	24	26	103	471	165	9.0	124	31	159	26
8	20	18	25	25	100	337	133	16	149	22	112	20
9	19	e77	25	25	96	252	113	19	116	50	91	16
10	19	e132	24	23	290	194	97	23	86	37	78	19
11	20	77	24	22	253	160	90	16	62	24	93	17
12	17	60	26	22	200	131	76	18	47	18	73	14
13	14	49	28	22	174	138	66	15	36	15	67	13
14	12	42	97	21	159	133	58	14	30	13	49	10
15	11	34	158	25	452	106	54	13	25	13	36	9.2
16	11	29	1200	27	1450	108	52	11	29	11	27	8.4
17	11	23	2130	28	1790	99	48	10	26	13	25	7.8
18	10	20	798	26	933	83	43	18	21	62	22	7.6
19	11	17	410	100	599	74	39	258	18	156	20	9.4
20	11	15	242	294	403	126	36	344	14	149	17	25
21	11	14	170	300	297	1030	37	220	15	99	15	65
22	12	13	141	251	226	904	35	454	24	3040	13	33
23	11	12	e118	156	193	540	31	553	26	904	15	20
24	14	12	e105	129	161	366	27	279	28	267	22	17
25	21	22	e85	117	338	266	25	258	24	168	18	16
26	16	31	e72	106	622	202	22	183	20	1760	15	13
27	12	32	e62	98	384	166	22	145	14	1230	16	12
28	11	41	e59	88	292	132	26	121	17	1400	15	12
29	9.6	37	e55	85	---	114	20	95	43	1600	e74	13
30	7.7	32	e47	340	---	101	17	73	25	554	e73	11
31	7.4	---	e40	457	---	98	---	56	---	321	e51	---
TOTAL	587.7	909.2	6314	2989	10702	9483	2504	3295.7	1581	12204	4570	659.4
MEAN	19.0	30.3	204	96.4	382	306	83.5	106	52.7	394	147	22.0
MAX	61	132	2130	457	1790	1270	267	553	149	3040	1450	65
MIN	7.4	7.1	23	21	96	74	17	9.0	14	11	13	7.6
CFSM	.13	.21	1.39	.66	2.60	2.08	.57	.72	.36	2.68	1.00	.15
IN.	.15	.23	1.60	.76	2.71	2.40	.63	.83	.40	3.09	1.16	.17

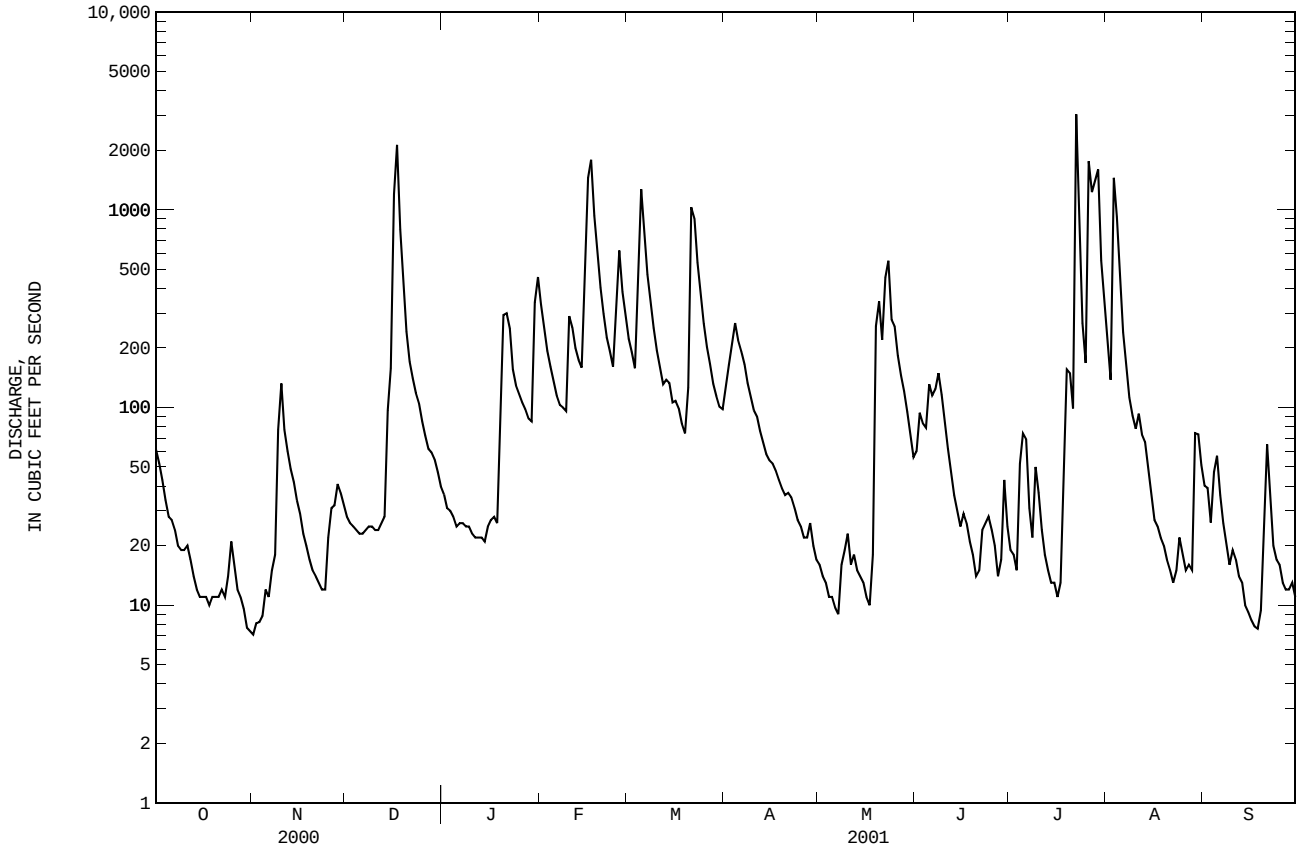
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2001, BY WATER YEAR (WY)

MEAN	29.6	112	208	380	408	546	215	292	231	130	59.7	36.4
MAX	71.2	398	564	631	552	1574	408	786	768	560	156	136
(WY)	1994	1994	1997	1994	1997	1997	1994	1995	1997	1998	1993	1996
MIN	6.82	9.49	29.7	55.1	211	242	62.7	25.0	19.6	12.8	4.90	2.63
(WY)	2000	2000	2000	2000	1996	1998	1999	1999	1994	1999	1999	1999

03288100 NORTH ELKHORN CREEK AT GEORGETOWN, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1993 - 2001	
ANNUAL TOTAL	47987.9		55799.0			
ANNUAL MEAN	131		153		222	
HIGHEST ANNUAL MEAN					371	1997
LOWEST ANNUAL MEAN					114	2000
HIGHEST DAILY MEAN	4740	Feb 19	3040	Jul 22	11000	Mar 3 1997
LOWEST DAILY MEAN	7.1	Nov 1	7.1	Nov 1	1.3	Sep 18 1999
ANNUAL SEVEN-DAY MINIMUM	8.1	Oct 29	8.1	Oct 29	1.6	Sep 14 1999
MAXIMUM PEAK FLOW			7860	Jul 22	19300	Mar 2 1997
MAXIMUM PEAK STAGE			11.66	Jul 22	19.01	Mar 2 1997
ANNUAL RUNOFF (CFSM)	.89		1.04		1.51	
ANNUAL RUNOFF (INCHES)	12.14		14.12		20.55	
10 PERCENT EXCEEDS	291		337		520	
50 PERCENT EXCEEDS	36		40		68	
90 PERCENT EXCEEDS	13		12		9.6	

e Estimated



03288110 ROYAL SPRINGS AT GEORGETOWN, KY

LOCATION.--Lat 38°12'34", long 84°33'43", Scott County, Hydrologic Unit 05100205, at Georgetown Water Plant, 200 ft downstream from dam, and 0.64 mi upstream from mouth.

PERIOD OF RECORD.--December 1992 to current year.

GAGE.--Water-stage recorder. Datum of gage is 797.16 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records fair 10 ft^3/s to 200 ft^3/s and poor below 10 ft^3/s. and above 200 ft^3/s.

COOPERATION.--City of Georgetown.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

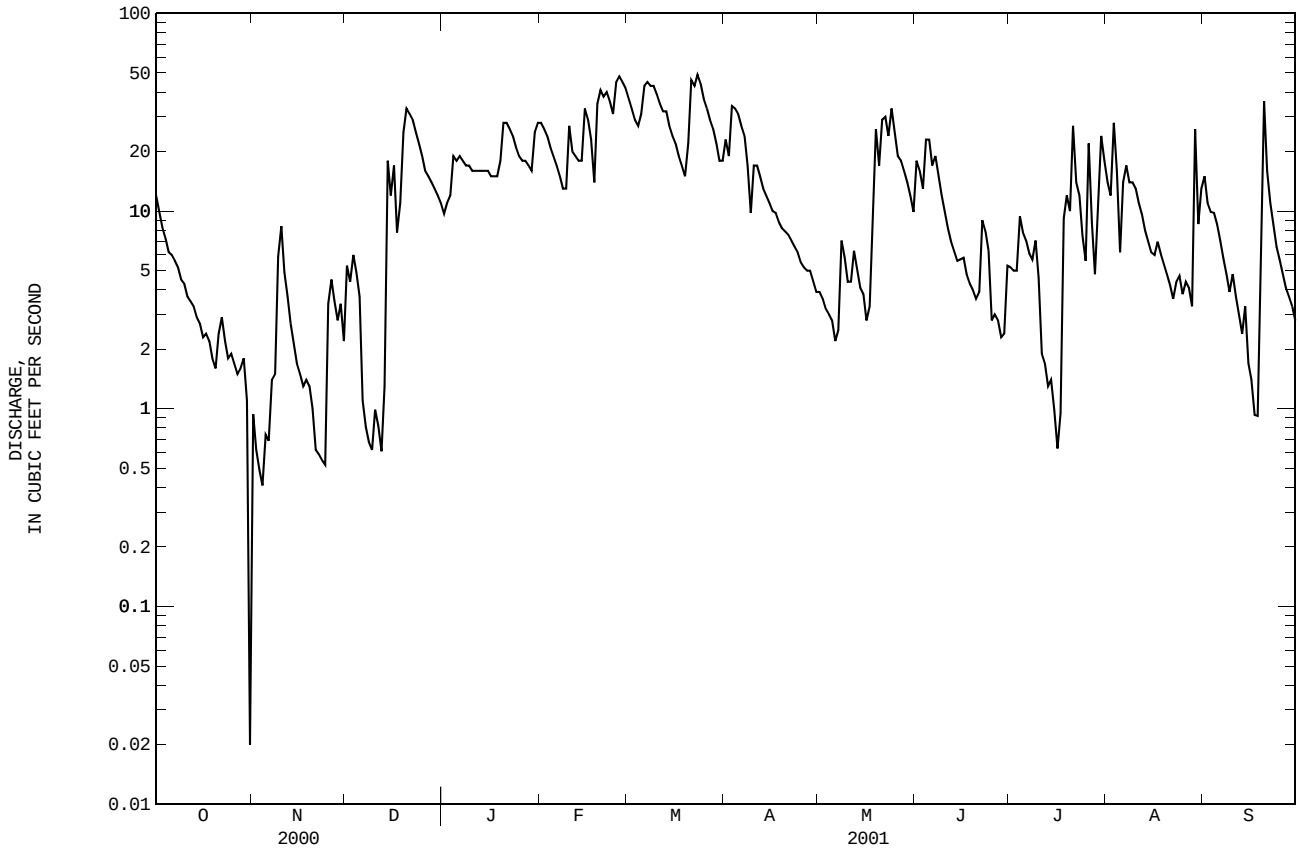
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	.94	5.3	9.7	28	37	23	3.9	18	5.2	14	15
2	10	.62	4.4	11	26	33	19	3.6	16	5.0	12	11
3	8.3	.49	6.0	12	24	29	34	3.2	13	5.0	28	9.9
4	7.3	.41	4.9	19	21	27	33	3.0	23	9.4	16	9.8
5	6.2	.74	3.7	18	19	31	31	2.8	23	7.8	6.2	8.6
6	6.0	.69	1.1	19	17	43	27	2.2	17	7.1	14	7.1
7	5.6	1.4	.81	18	15	45	24	2.5	19	6.1	17	5.8
8	5.2	1.5	.68	17	13	43	17	7.1	15	5.7	14	4.8
9	4.5	5.9	.62	17	13	43	9.8	5.8	12	7.1	14	3.9
10	4.3	8.4	.99	16	27	39	17	4.4	10	4.6	13	4.8
11	3.7	4.9	.82	16	20	35	17	4.4	8.2	1.9	11	3.7
12	3.5	3.7	.61	16	19	32	15	6.3	7.0	1.7	9.6	3.0
13	3.3	2.7	1.3	16	18	32	13	5.1	6.3	1.3	8.0	2.4
14	2.9	2.1	18	16	18	27	12	4.1	5.6	1.4	7.0	3.3
15	2.7	1.7	12	16	33	24	11	3.8	5.7	.98	6.2	1.7
16	2.3	1.5	17	15	29	22	10	2.8	5.8	.63	6.0	1.4
17	2.4	1.3	7.8	15	23	19	9.8	3.3	4.8	.95	7.0	.93
18	2.2	1.4	11	15	14	17	8.8	9.5	4.3	9.2	6.1	.92
19	1.8	1.3	25	18	35	15	8.2	26	4.0	12	5.4	5.5
20	1.6	1.0	33	28	41	22	7.9	17	3.6	10	4.8	36
21	2.4	.62	31	28	38	46	7.6	29	3.9	27	4.2	16
22	2.9	.59	29	26	40	43	7.1	30	9.0	14	3.6	11
23	2.2	.55	25	24	36	49	6.6	24	7.9	12	4.4	8.5
24	1.8	.52	22	21	31	44	6.2	33	6.3	7.5	4.7	6.6
25	1.9	3.4	19	19	45	37	5.5	25	2.8	5.6	3.8	5.7
26	1.7	4.5	16	18	48	33	5.2	19	3.0	22	4.4	4.8
27	1.5	3.5	15	18	45	29	5.0	18	2.8	8.7	4.1	4.1
28	1.6	2.8	14	17	42	26	5.0	16	2.3	4.8	3.3	3.7
29	1.8	3.4	13	16	---	22	4.4	14	2.4	11	26	3.3
30	1.1	2.2	12	25	---	18	3.9	12	5.3	24	8.6	2.8
31	.02	---	11	28	---	18	---	9.9	---	18	13	---
TOTAL	114.72	64.77	362.03	567.7	778	980	404.0	350.7	267.0	257.66	299.4	206.05
MEAN	3.70	2.16	11.7	18.3	27.8	31.6	13.5	11.3	8.90	8.31	9.66	6.87
MAX	12	8.4	33	28	48	49	34	33	23	27	28	36
MIN	.02	.41	.61	9.7	13	15	3.9	2.2	2.3	.63	3.3	.92

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2001, BY WATER YEAR (WY)

MEAN	4.91	12.5	22.8	35.1	35.8	44.8	28.3	27.0	25.3	11.3	8.36	4.84
MAX	9.63	35.9	48.3	49.0	52.5	77.5	47.5	55.9	65.1	44.1	13.0	12.7
(WY)	1997	1994	1997	1996	1994	1997	1994	1996	1997	1998	1993	1996
MIN	1.57	.98	6.00	5.67	13.7	19.8	13.5	5.26	3.04	1.21	1.51	.26
(WY)	1999	2000	1999	2000	2000	2000	2001	1999	1994	1995	1999	1998

03288110 ROYAL SPRINGS AT GEORGETOWN, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1993 - 2001	
ANNUAL TOTAL	3551.96		4652.03			
ANNUAL MEAN	9.70		12.7		21.6	
HIGHEST ANNUAL MEAN					30.5	1997
LOWEST ANNUAL MEAN					9.07	2000
HIGHEST DAILY MEAN	33	Dec 20	49	Mar 23	313	Mar 1 1997
LOWEST DAILY MEAN	.02	Oct 31	.02	Oct 31	.00	Oct 15 1993
ANNUAL SEVEN-DAY MINIMUM	.56	Oct 31	.56	Oct 31	.00	Oct 4 1997
MAXIMUM PEAK FLOW			76	Aug 29	2240	Mar 1 1997
MAXIMUM PEAK STAGE			5.96	Aug 29	7.30	Mar 1 1997
10 PERCENT EXCEEDS	25		29		53	
50 PERCENT EXCEEDS	5.6		8.8		14	
90 PERCENT EXCEEDS	1.3		1.6		1.0	



03288200 CANE RUN AT BEREA ROAD NEAR DONERAIL, KY

LOCATION.--Lat 38°08'19", long 84°31'02", Fayette County, Hydrologic Unit 05100205, on right bank, upstream side of bridge on Berea Road, 0.2 mi southwest of Ironworks Road (Hwy 1973), 0.8 mi noetheast of Georgetown Road (U.S. Hwy 25), 1.0 mi southeast of Donerail, Ky., and 9.0 mi upstream from North Elkhorn Creek.

DRAINAGE AREA.--19.9 mi^2.

PERIOD OF RECORD.--February 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 850 ft above NGVD of 1929, (from topographic map).

REMARKS.--1999 Water Year: Records fair.
2000 Water Year: Records fair.
2001 Water Year: Records fair.

COOPERATION.--Lexington Fayette Urban County Government.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

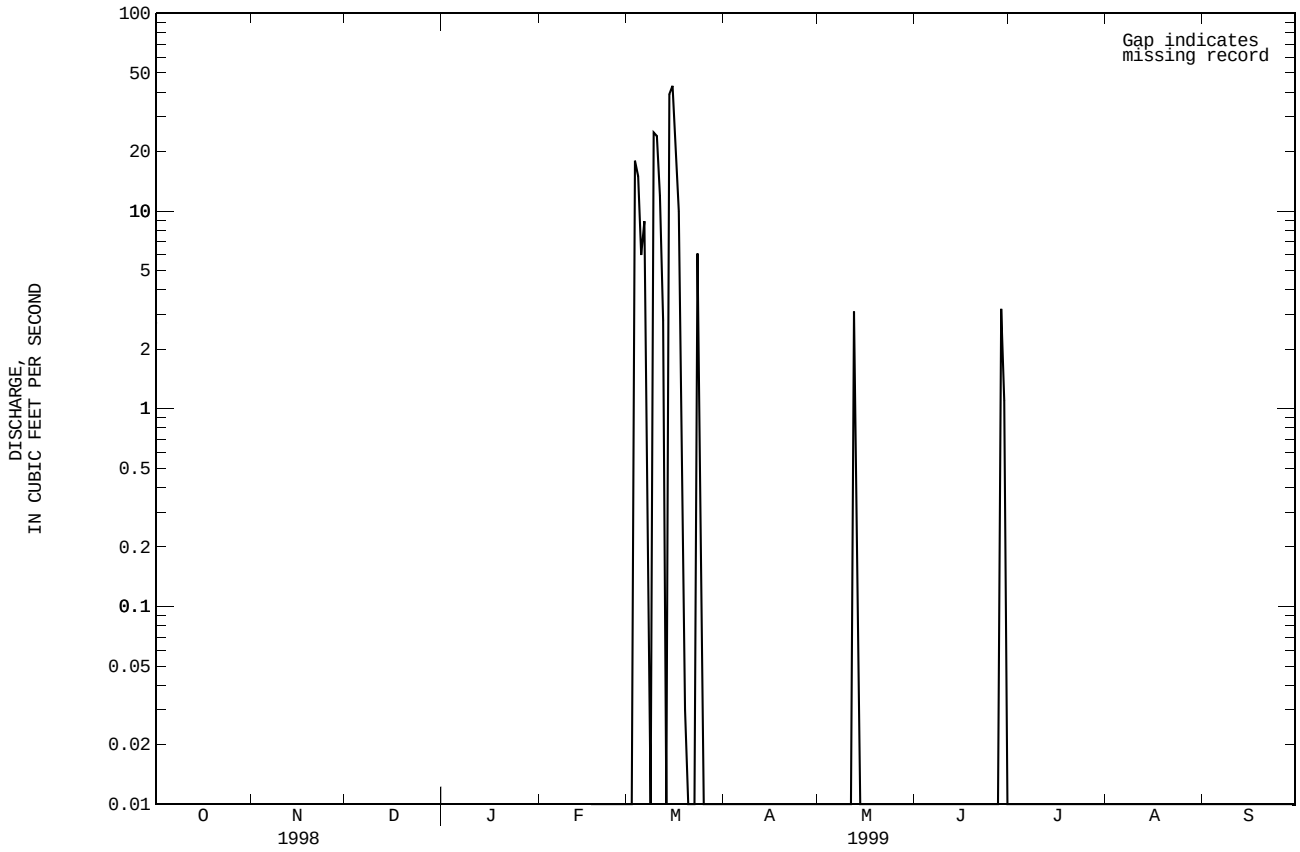
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
2	---	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
3	---	---	---	---	---	18	.00	.00	.00	.00	.00	.00
4	---	---	---	---	---	15	.00	.00	.00	.00	.00	.00
5	---	---	---	---	---	6.0	.00	.00	.00	.00	.00	.00
6	---	---	---	---	---	8.9	.00	.00	.00	.00	.00	.00
7	---	---	---	---	---	.41	.00	.00	.00	.00	.00	.00
8	---	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
9	---	---	---	---	---	25	.00	.00	.00	.00	.00	.00
10	---	---	---	---	---	24	.00	.00	.00	.00	.00	.00
11	---	---	---	---	---	12	.00	.00	.00	.00	.00	.00
12	---	---	---	---	---	2.8	.00	3.1	.00	.00	.00	.00
13	---	---	---	---	---	.00	.00	.18	.00	.00	.00	.00
14	---	---	---	---	---	39	.00	.00	.00	.00	.00	.00
15	---	---	---	---	---	43	.00	.00	.00	.00	.00	.00
16	---	---	---	---	---	23	.00	.00	.00	.00	.00	.00
17	---	---	---	---	.00	10	.00	.00	.00	.00	.00	.00
18	---	---	---	---	.00	2.3	.00	.00	.00	.00	.00	.00
19	---	---	---	---	.00	.03	.00	.00	.00	.00	.00	.00
20	---	---	---	---	.00	.00	.00	.00	.00	.00	.00	.00
21	---	---	---	---	.00	.00	.00	.00	.00	.00	.00	.00
22	---	---	---	---	.00	.00	.00	.00	.00	.00	.00	.00
23	---	---	---	---	.00	6.1	.00	.00	.00	.00	.00	.00
24	---	---	---	---	.00	.70	.00	.00	.00	.00	.00	.00
25	---	---	---	---	.00	.00	.00	.00	.00	.00	.00	.00
26	---	---	---	---	.00	.00	.00	.00	.00	.00	.00	.00
27	---	---	---	---	.00	.00	.00	.00	.00	.00	.00	.00
28	---	---	---	---	.00	.00	.00	.00	3.2	.00	.00	.00
29	---	---	---	---	---	.00	.00	.00	1.1	.00	.00	.00
30	---	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
31	---	---	---	---	---	.00	---	.00	---	.00	.00	---
TOTAL	---	---	---	---	---	236.24	0.00	3.28	4.30	0.00	0.00	0.00
MEAN	---	---	---	---	---	7.62	.000	.11	.14	.000	.000	.000
MAX	---	---	---	---	---	43	.00	3.1	3.2	.00	.00	.00
MIN	---	---	---	---	---	.00	.00	.00	.00	.00	.00	.00

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

MEAN	---	---	---	---	---	7.62	.000	.11	.14	.000	.000	.000
MAX	---	---	---	---	---	7.62	.000	.11	.14	.000	.000	.000
(WY)	---	---	---	---	---	1999	1999	1999	1999	1999	1999	1999
MIN	---	---	---	---	---	7.62	.000	.11	.14	.000	.000	.000
(WY)	---	---	---	---	---	1999	1999	1999	1999	1999	1999	1999

03288200 CANE RUN AT BEREA ROAD NEAR DONERAIL, KY--Continued

SUMMARY STATISTICS	FOR 1999 WATER YEAR	
HIGHEST DAILY MEAN	43	Mar 15
LOWEST DAILY MEAN	.00	Feb 17
ANNUAL SEVEN-DAY MINIMUM	.00	Feb 17
10 PERCENT EXCEEDS	.00	
50 PERCENT EXCEEDS	.00	
90 PERCENT EXCEEDS	.00	



03288200 CANE RUN AT BEREA ROAD NEAR DONERAIL, KY--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

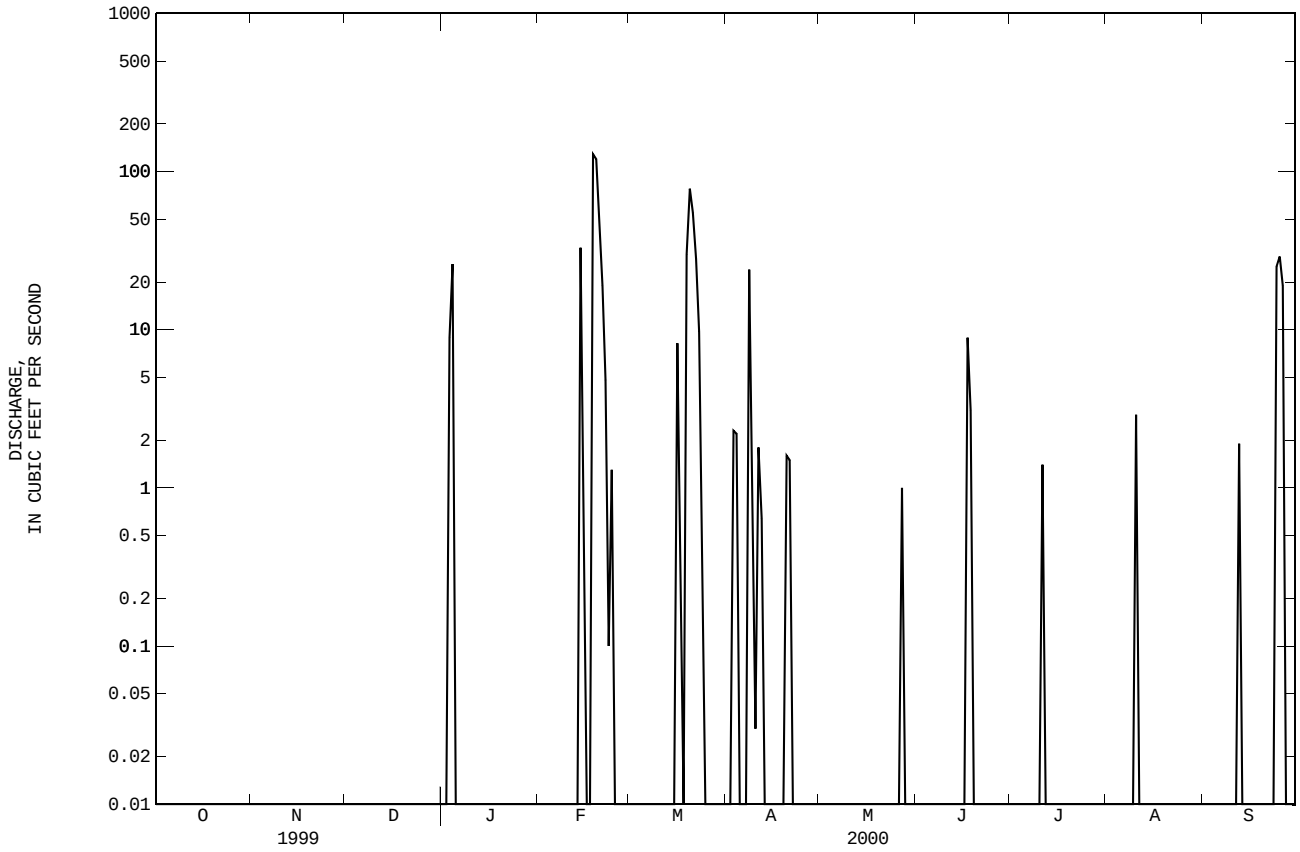
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	8.9	.00	.00	2.3	.00	.00	.00	.00	.00
4	.00	.00	.00	26	.00	.00	2.2	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	24	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	4.4	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	2.9	.00
11	.00	.00	.00	.00	.00	.00	1.8	.00	.00	1.4	.00	.00
12	.00	.00	.00	.00	.00	.00	.64	.00	.00	.00	.00	1.9
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	33	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.74	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	8.2	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.49	.00	.00	8.9	.00	.00	.00
18	.00	.00	.00	.00	129	.00	.00	.00	3.1	.00	.00	.00
19	.00	.00	.00	.00	120	30	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	44	78	1.6	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	19	55	1.5	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	4.8	28	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.10	9.7	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	1.3	.68	.00	.00	.00	.00	.00	25
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	29
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	19
27	.00	.00	.00	.00	.00	.00	.00	1.0	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	34.90	351.94	210.07	38.47	1.00	12.00	1.40	2.90	74.90
MEAN	.000	.000	.000	1.13	12.1	6.78	1.28	.032	.40	.045	.094	2.50
MAX	.00	.00	.00	26	129	78	24	1.0	8.9	1.4	2.9	29
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	.000	.000	.000	1.13	12.1	7.20	.64	.069	.27	.023	.047	1.25
MAX	.000	.000	.000	1.13	12.1	7.62	1.28	.11	.40	.045	.094	2.50
(WY)	2000	2000	2000	2000	2000	1999	2000	1999	2000	2000	2000	2000
MIN	.000	.000	.000	1.13	12.1	6.78	.000	.032	.14	.000	.000	.000
(WY)	2000	2000	2000	2000	2000	2000	1999	2000	1999	1999	1999	1999

03288200 CANE RUN AT BEREA ROAD NEAR DONERAIL, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL			727.58			
ANNUAL MEAN			1.99		1.99	
HIGHEST ANNUAL MEAN					1.99	2000
LOWEST ANNUAL MEAN					1.99	2000
HIGHEST DAILY MEAN	43	Mar 15	129	Feb 18	129	Feb 18 2000
LOWEST DAILY MEAN	.00	Feb 17	.00	Oct 1	.00	Feb 17 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Feb 17	.00	Oct 1	.00	Feb 17 1999
MAXIMUM PEAK FLOW			516	Feb 18	516	Feb 18 2000
MAXIMUM PEAK STAGE			6.91	Feb 18	6.91	Feb 18 2000
10 PERCENT EXCEEDS	.00		.05		.00	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	



03288200 CANE RUN AT BEREA ROAD NEAR DONERAIL, KY--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

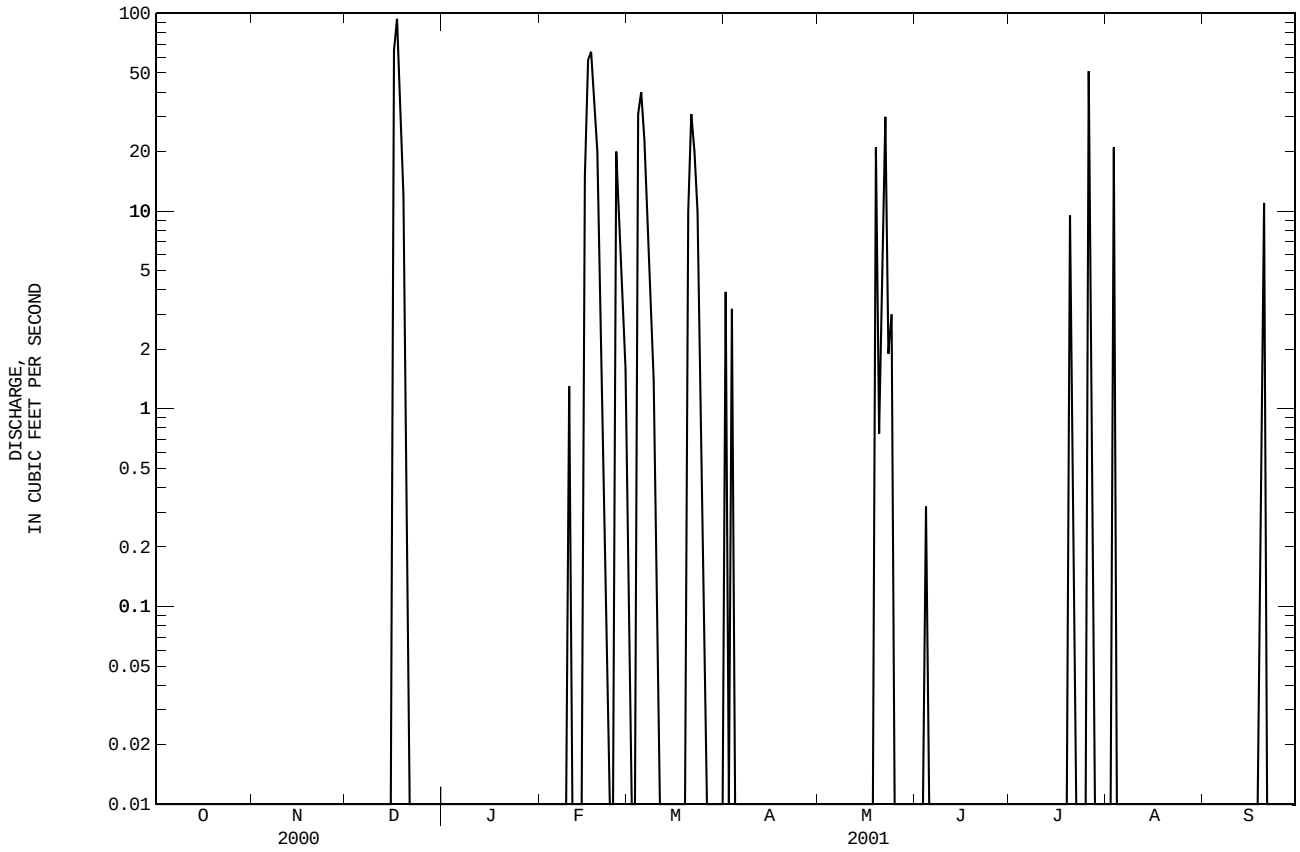
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.05	3.9	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	3.2	.00	.00	.00	21	.00
4	.00	.00	.00	.00	.00	31	.00	.00	.32	.00	.00	.00
5	.00	.00	.00	.00	.00	40	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	23	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	11	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	4.0	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	1.4	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	1.3	.06	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	15	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	65	.00	58	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	94	.00	64	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	32	.00	36	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	12	.00	20	.00	.00	21	.00	.00	.00	.60
20	.00	.00	1.8	.00	8.2	10	.00	.75	.00	9.5	.00	11
21	.00	.00	.00	.00	2.8	31	.00	5.7	.00	.66	.00	.00
22	.00	.00	.00	.00	.66	20	.00	30	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	10	.00	1.9	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	3.0	.00	3.0	.00	.00	.00	.00
25	.00	.00	.00	.00	20	.62	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	9.3	.00	.00	.00	.00	51	.00	.00
27	.00	.00	.00	.00	4.2	.00	.00	.00	.00	5.4	.00	.00
28	.00	.00	.00	.00	1.6	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	204.80	0.00	241.06	185.13	7.10	62.35	0.32	66.56	21.00	11.60
MEAN	.000	.000	6.61	.000	8.61	5.97	.24	2.01	.011	2.15	.68	.39
MAX	.00	.00	94	.00	64	40	3.9	30	.32	51	21	11
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	.000	.000	3.30	.56	10.4	6.79	.51	.72	.18	.73	.26	.96
MAX	.000	.000	6.61	1.13	12.1	7.62	1.28	2.01	.40	2.15	.68	2.50
(WY)	2000	2000	2001	2000	2000	1999	2000	2001	2000	2001	2001	2000
MIN	.000	.000	.000	.000	8.61	5.97	.000	.032	.011	.000	.000	.000
(WY)	2000	2000	2000	2001	2001	2001	1999	2000	2001	1999	1999	1999

03288200 CANE RUN AT BEREA ROAD NEAR DONERAIL, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	932.38		799.92			
ANNUAL MEAN	2.55		2.19		2.09	
HIGHEST ANNUAL MEAN					2.19	2001
LOWEST ANNUAL MEAN					1.99	2000
HIGHEST DAILY MEAN	129	Feb 18	94	Dec 17	129	Feb 18 2000
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Feb 17 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 5	.00	Oct 1	.00	Feb 17 1999
MAXIMUM PEAK FLOW			235	Dec 16	516	Feb 18 2000
MAXIMUM PEAK STAGE			5.39	Dec 16	6.91	Feb 18 2000
10 PERCENT EXCEEDS	.82		1.8		.62	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	



KENTUCKY RIVER BASIN

03289000 SOUTH ELKHORN CREEK AT FORT SPRING, KY

LOCATION.--Lat 38°02'35", long 84°37'35", Fayette County, Hydrologic Unit 05100205, on downstream side of bridge on Fort Spring Road at U.S. Highway 60 at Fort Spring, 1.7 mi upstream from Shannon Run, 6.5 mi west of Lexington, and at mile 42.6.

DRAINAGE AREA.--24.0 mi^2, of which about 3.0 mi^2 does not contribute directly to surface runoff.

PERIOD OF RECORD.--March 1950 to September 1992, October 1997 to current year.

REVISED RECORDS.--WSP 1275: 1951-52. WSP 1505: Drainage area. WSP 1625: 1951-52 (P).

GAGE.--Water-stage recorder. Datum of gage is 834.25 ft above NGVD of 1929. Prior to Aug. 12, 1952, and Feb. 18 to Nov. 16, 1965, nonrecording gage and crest-stage gage at same site and datum.

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

COOPERATION.--Lexington Fayette Urban County Government.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	2010	*1,070	*7.20	May 22	0705	631	6.01
May 18	0835	552	5.72	Aug 3	1025	563	5.76

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	2.8	4.7	e6.2	35	33	46	8.9	36	3.1	14	8.1
2	6.6	2.6	4.5	e5.8	30	30	27	8.7	20	3.0	11	4.5
3	5.6	2.5	8.7	e5.5	25	26	46	8.6	15	3.0	194	3.2
4	e4.8	2.5	10	e5.1	23	142	36	8.2	38	26	83	7.7
5	4.1	2.5	5.9	e4.8	21	164	29	8.2	22	10	38	5.9
6	4.6	2.8	4.9	e4.6	19	95	25	8.7	17	6.0	25	3.8
7	5.4	14	4.4	e4.4	17	65	21	14	24	4.4	19	2.9
8	4.7	7.4	4.6	e4.2	15	46	17	25	22	3.9	14	2.4
9	5.5	35	8.0	e4.0	17	34	15	8.4	17	21	12	2.0
10	5.5	28	7.2	e3.8	53	27	13	5.3	13	7.4	14	2.8
11	5.0	13	4.9	e3.7	29	22	13	3.9	12	5.0	28	2.9
12	4.9	9.1	9.6	e3.6	25	22	12	9.7	10	3.7	12	2.1
13	4.6	7.9	9.6	e3.4	23	27	11	4.5	17	3.1	8.9	2.0
14	4.1	7.1	17	e3.3	43	18	9.8	3.1	23	2.3	7.4	2.3
15	4.8	5.8	16	e3.2	184	15	11	2.6	14	2.0	6.2	2.2
16	6.5	5.1	336	e3.1	292	15	10	2.2	17	1.8	5.5	2.4
17	9.7	4.5	441	e3.0	261	14	8.9	7.9	9.9	3.1	6.4	2.3
18	11	3.9	112	9.0	132	11	8.4	153	8.0	71	5.1	3.0
19	12	3.6	56	54	85	10	7.9	212	6.6	27	4.6	7.6
20	11	3.9	42	48	61	72	10	73	5.8	12	4.0	30
21	11	5.7	30	40	45	158	9.6	83	5.3	15	3.4	6.2
22	17	5.1	e22	32	38	104	9.5	276	14	24	2.9	3.9
23	14	5.9	e18	27	32	71	8.7	126	7.9	29	3.0	3.2
24	14	5.9	e15	26	27	50	9.3	99	6.1	20	7.7	4.1
25	19	16	e13	25	101	36	10	64	4.7	11	3.4	4.4
26	5.4	12	e11	24	67	28	10	42	5.1	116	6.5	3.4
27	4.0	9.1	e10	23	50	22	10	37	3.8	58	7.6	2.5
28	3.6	7.2	e8.8	21	40	18	9.9	26	3.4	31	5.2	2.0
29	3.3	6.0	e8.0	21	---	15	9.2	21	5.0	55	6.6	2.3
30	3.3	5.3	e7.3	49	---	14	9.1	17	3.6	36	4.7	2.2
31	3.2	---	e6.7	42	---	14	---	14	---	20	3.8	---
TOTAL	226.0	242.2	1256.8	512.7	1790	1418	472.3	1380.9	406.2	633.8	566.9	134.3
MEAN	7.29	8.07	40.5	16.5	63.9	45.7	15.7	44.5	13.5	20.4	18.3	4.48
MAX	19	35	441	54	292	164	46	276	38	116	194	30
MIN	3.2	2.5	4.4	3.0	15	10	7.9	2.2	3.4	1.8	2.9	2.0
CFSM	.34	.38	1.91	.78	3.02	2.16	.74	2.10	.64	.96	.86	.21
IN.	.40	.42	2.21	.90	3.14	2.49	.83	2.42	.71	1.11	.99	.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2001, BY WATER YEAR (WY)

MEAN	8.35	20.3	49.5	49.7	64.8	68.4	43.1	32.5	20.1	15.9	11.5	9.29
MAX	57.0	64.0	198	159	227	172	145	156	83.2	97.0	68.0	81.4
(WY)	1976	1980	1979	1951	1989	1964	1972	1983	1960	1958	1974	1979
MIN	.000	.087	.86	4.43	6.48	11.0	10.3	3.92	1.14	.66	.006	.020
(WY)	1954	1954	1954	1981	1954	1954	1971	1952	1954	1951	1965	1953

03289000 SOUTH ELKHORN CREEK AT FORT SPRING, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1950 - 2001	
ANNUAL TOTAL	8539.15		9040.1			
ANNUAL MEAN	23.3		24.8		32.6	
HIGHEST ANNUAL MEAN					62.1	1989
LOWEST ANNUAL MEAN					6.75	1954
HIGHEST DAILY MEAN	447	Feb 18	441	Dec 17	1310	Feb 15 1989
LOWEST DAILY MEAN	.55	Sep 7	1.8	Jul 16	.00	Aug 6 1951
ANNUAL SEVEN-DAY MINIMUM	.90	Sep 1	2.3	Sep 11	.00	Aug 19 1951
MAXIMUM PEAK FLOW			1070	Dec 16	2280	Feb 15 1989
MAXIMUM PEAK STAGE			7.20	Dec 16	12.13	Sep 21 1979
INSTANTANEOUS LOW FLOW					.00	Aug 6 1951
ANNUAL RUNOFF (CFSM)	1.10		1.17		1.54	
ANNUAL RUNOFF (INCHES)	14.98		15.86		20.88	
10 PERCENT EXCEEDS	47		51		80	
50 PERCENT EXCEEDS	7.8		10		12	
90 PERCENT EXCEEDS	2.3		3.1		1.4	

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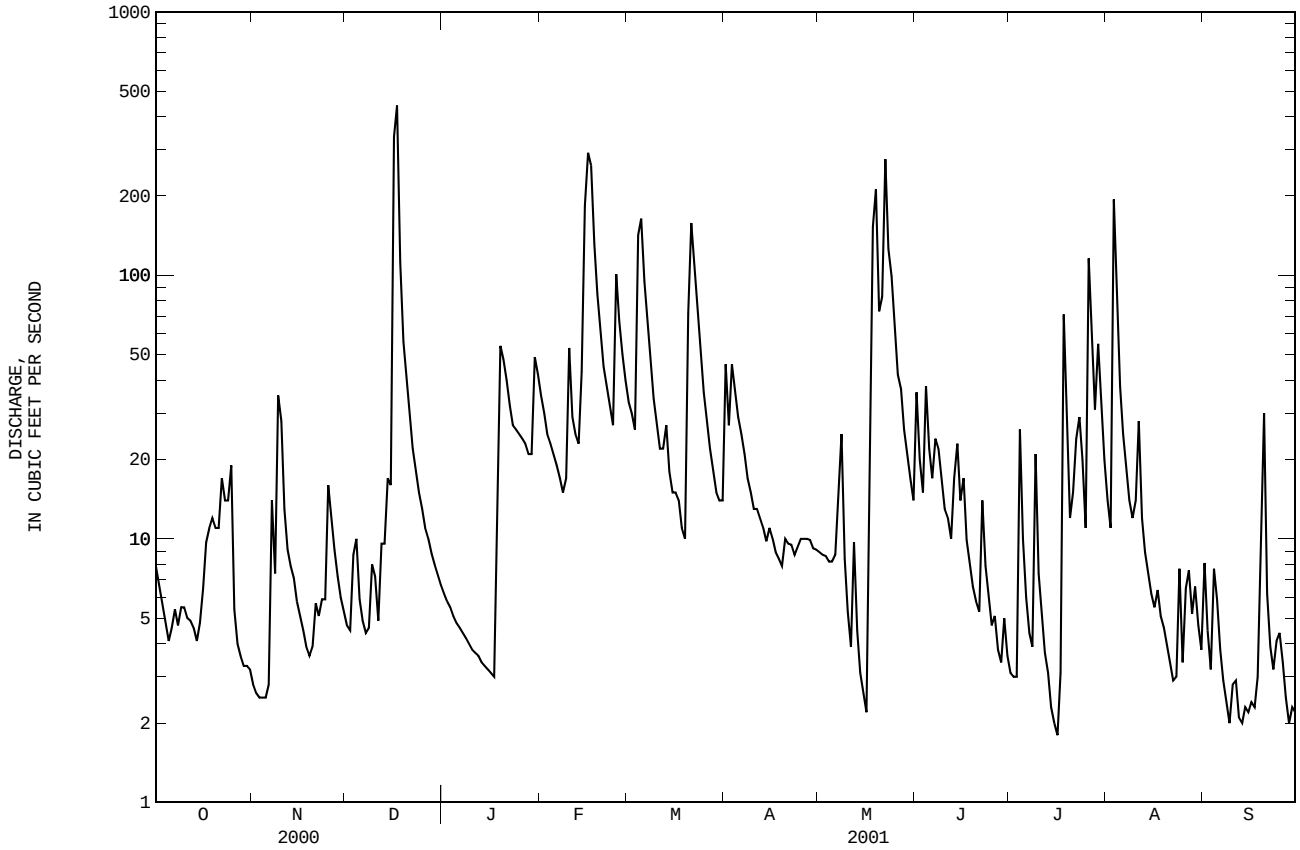

03289193 WOLF RUN AT OLD FRANKFORT PIKE AT LEXINGTON, KY

LOCATION.--Lat 38°04'00", long 84°33'16", Fayette County, Hydrologic Unit 05100205, on left bank, downstream side of bridge on Old Frankfort Pike (1681), at Lexington 0.3 mile southeast of the intersection of Old Frankfort Pike and Viley Road, 0.7 mile northwest of the intersection of Old Frankfort Pike and New Circle Road (Hwy 4), and 0.5 mile above mouth.

DRAINAGE AREA.--9.57 mi^2.

PERIOD OF RECORD.--October 1997 to current year.

GAGE.--Water-stage recorder . Elevation of gage is 860 ft above NGVD of 1929 (from topographic map).

REMARKS.--Records fair except those estimated and those above 100 ft^3/s, which are poor.

COOPERATION.--Lexington Fayette Urban County Government.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	.89	1.6	e3.9	8.9	9.6	31	2.3	28	1.8	5.5	3.3
2	2.9	.89	1.6	e3.8	7.7	9.4	9.4	2.4	8.2	1.7	4.8	2.3
3	2.4	.90	2.2	e3.6	6.8	7.7	21	3.1	6.8	10	58	2.2
4	2.2	.89	2.3	e3.5	6.3	70	9.9	3.8	26	17	11	8.7
5	1.8	.87	1.9	e3.4	5.8	38	8.6	2.6	8.7	3.3	7.3	2.8
6	1.8	3.0	1.8	e3.3	5.3	25	7.8	2.9	12	2.4	5.9	2.2
7	1.5	3.3	1.6	e3.2	4.8	18	6.8	4.4	8.7	2.1	5.2	2.1
8	1.3	1.4	1.6	e3.1	4.6	14	6.1	17	6.7	5.5	4.6	2.0
9	1.2	26	1.5	e3.0	19	11	5.6	4.5	5.6	8.9	5.3	1.9
10	1.1	5.7	1.7	e2.9	15	9.5	5.1	3.5	4.8	2.7	27	2.3
11	1.0	3.2	1.6	e2.9	7.8	8.0	4.7	3.2	4.3	2.3	11	2.0
12	.93	2.4	2.2	e2.8	6.9	11	4.4	9.5	3.8	2.1	5.0	1.9
13	.88	2.0	23	e2.8	6.7	12	3.9	5.2	3.5	1.9	4.2	1.9
14	.82	1.8	19	e2.7	30	7.8	3.5	3.9	3.7	1.8	3.6	1.9
15	.80	1.5	7.6	e2.7	60	7.0	3.8	3.8	4.0	1.7	3.3	1.9
16	.81	1.3	291	e2.7	101	7.7	3.3	3.8	3.9	1.6	5.1	1.8
17	.80	1.3	87	e2.6	67	6.6	3.2	6.4	3.0	2.6	3.6	1.8
18	.89	1.2	32	3.5	36	5.9	3.1	98	2.8	66	3.3	1.8
19	.79	1.2	19	26	23	5.5	3.0	72	2.7	5.9	2.6	38
20	.78	1.2	13	14	17	60	4.7	20	2.5	54	2.3	9.8
21	2.2	1.2	10	12	13	51	3.2	43	2.4	15	2.3	3.1
22	1.4	1.1	e8.6	10	11	29	2.9	114	12	28	2.2	2.2
23	.91	1.2	e7.6	8.7	9.5	19	2.8	35	2.7	6.9	4.2	1.8
24	7.5	1.2	e6.5	8.3	8.4	15	2.6	34	2.3	5.0	2.8	2.2
25	3.1	11	e6.0	7.5	51	11	2.7	17	2.0	13	2.2	1.7
26	1.2	4.0	e5.4	6.9	17	9.3	2.6	11	1.9	126	6.0	1.4
27	1.0	2.8	e5.1	6.6	13	7.9	2.6	15	1.9	27	4.0	1.2
28	.95	2.2	e4.8	6.0	11	7.0	2.3	8.4	1.9	13	2.5	1.1
29	.88	1.9	e4.5	9.3	---	6.5	2.3	7.2	2.3	34	6.1	1.0
30	.90	1.7	e4.3	14	---	6.1	2.3	6.7	1.9	11	2.6	.90
31	.91	---	e4.1	9.9	---	6.5	---	6.7	---	7.0	2.5	---
TOTAL	49.25	89.24	580.1	195.6	573.5	512.0	175.2	570.3	181.0	481.2	216.0	109.20
MEAN	1.59	2.97	18.7	6.31	20.5	16.5	5.84	18.4	6.03	15.5	6.97	3.64
MAX	7.5	26	291	26	101	70	31	114	28	126	58	38
MIN	.78	.87	1.5	2.6	4.6	5.5	2.3	2.3	1.9	1.6	2.2	.90
CFSM	.17	.31	1.96	.66	2.14	1.73	.61	1.92	.63	1.62	.73	.38
IN.	.19	.35	2.25	.76	2.23	1.99	.68	2.22	.70	1.87	.84	.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	3.61	4.42	11.4	20.6	22.1	19.2	12.6	14.8	22.9	18.0	4.51	4.65
MAX	4.72	7.83	18.7	37.7	28.1	28.0	26.1	27.8	61.8	44.6	6.97	11.1
(WY)	1999	1998	2001	1999	1998	1999	1998	1998	1998	1998	2001	2000
MIN	1.59	2.45	5.19	6.31	15.9	14.9	5.84	5.82	6.03	5.89	2.93	1.37
(WY)	2001	2000	2000	2001	1999	1998	2001	1999	2001	2000	1998	1999

03289193 WOLF RUN AT OLD FRANKFORT PIKE AT LEXINGTON, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001	
ANNUAL TOTAL	3996.17		3732.59			
ANNUAL MEAN	10.9		10.2		13.2	
HIGHEST ANNUAL MEAN					21.6	1998
LOWEST ANNUAL MEAN					9.93	2000
HIGHEST DAILY MEAN	323	Feb 18	291	Dec 16	717	Jul 20 1998
LOWEST DAILY MEAN	.59	Aug 22	.78	Oct 20	.34	Oct 13 1997
ANNUAL SEVEN-DAY MINIMUM	.81	Oct 14	.81	Oct 14	.42	Oct 7 1997
MAXIMUM PEAK FLOW			987	Dec 16	3120	Jun 29 1998
MAXIMUM PEAK STAGE			5.07	Dec 16	7.97	Jun 29 1998
INSTANTANEOUS LOW FLOW					.00	Dec 9 1999
ANNUAL RUNOFF (CFSM)	1.14		1.07		1.38	
ANNUAL RUNOFF (INCHES)	15.53		14.51		18.73	
10 PERCENT EXCEEDS	18		23		26	
50 PERCENT EXCEEDS	3.9		3.9		4.8	
90 PERCENT EXCEEDS	1.1		1.3		.97	

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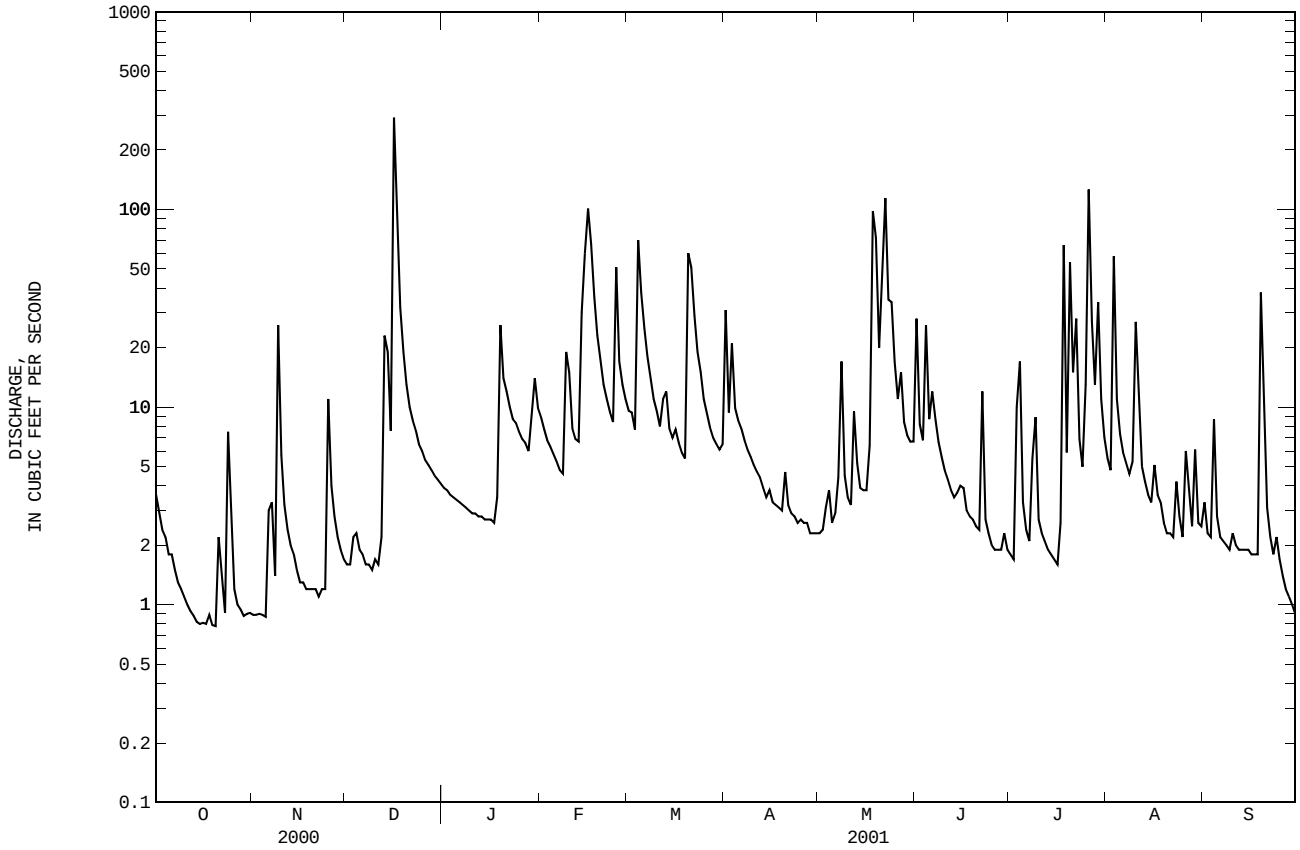


03289200 TOWN BRANCH AT YARNALLTON ROAD AT YARNALLTON, KY

LOCATION.--Lat 38°06'13", long 84°35'17", Fayette County, Hydrologic Unit 05100205, on left bank, downstream side of bridge on Yarnallton Road, 0.2 mi southwest of Yarnallton, 0.5 mi southwest of Leestown Road (Hwy 421), 1.1 mi northeast of Old Frankfort Pike (Hwy 1681), and 4.0 mi above the mouth.

DRAINAGE AREA.--30.0 mi^2.

PERIOD OF RECORD.--October 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 830 ft above NGVD of 1929.

REMARKS.--Records fair except for those estimated, which are poor. Flow regulated by a sewage treatment plant and Federal Correctional Institute upstream.

COOPEARTION.--Lexington Fayette County Urban Government.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	28	29	e31	75	75	117	34	107	24	49	35
2	40	29	28	e30	68	72	72	35	59	24	43	29
3	39	30	31	e30	60	62	109	42	49	51	226	29
4	36	27	33	e29	55	235	81	44	108	88	98	49
5	35	26	31	e29	54	216	72	33	69	41	69	34
6	35	30	28	e29	51	158	66	31	68	32	59	28
7	33	48	29	e29	48	123	59	41	67	26	52	28
8	29	35	29	e28	45	101	55	90	53	25	47	26
9	30	113	27	e28	63	85	53	47	46	57	47	25
10	32	64	27	e28	105	73	50	40	42	32	75	29
11	32	44	28	e28	63	64	49	36	43	29	68	26
12	31	37	31	e28	59	71	47	62	43	26	45	25
13	30	37	63	e28	55	79	44	38	40	24	41	25
14	28	37	123	e28	96	63	41	34	38	21	38	24
15	27	37	60	e28	203	56	42	34	38	20	36	23
16	29	31	559	e28	341	59	41	32	40	21	41	22
17	32	31	439	e27	317	52	42	36	34	29	42	23
18	32	28	198	e27	205	47	39	159	34	139	35	23
19	30	27	134	119	152	46	38	348	34	60	32	77
20	29	28	97	95	118	153	44	132	33	312	32	128
21	34	28	79	81	94	223	38	169	34	123	32	47
22	34	28	64	75	85	161	36	342	71	100	30	36
23	33	24	e55	70	75	126	38	177	38	61	39	31
24	35	23	e48	65	65	100	37	166	32	46	34	36
25	55	61	e44	62	185	84	34	111	31	46	29	33
26	34	42	e39	59	115	74	34	82	29	397	37	30
27	34	38	e36	56	95	66	32	87	28	158	40	29
28	30	36	e34	52	84	60	31	62	28	88	32	28
29	28	32	e33	56	---	56	30	56	29	118	63	26
30	30	30	e32	98	---	53	33	49	26	74	44	25
31	29	---	e31	82	---	54	---	46	---	57	38	---
TOTAL	1027	1109	2519	1483	3031	2947	1504	2695	1391	2349	1593	1029
MEAN	33.1	37.0	81.3	47.8	108	95.1	50.1	86.9	46.4	75.8	51.4	34.3
MAX	55	113	559	119	341	235	117	348	108	397	226	128
MIN	27	23	27	27	45	46	30	31	26	20	29	22
CFSM	.08	.09	.20	.12	.27	.24	.12	.22	.12	.19	.13	.09
IN.	.09	.10	.23	.14	.28	.27	.14	.25	.13	.22	.15	.09

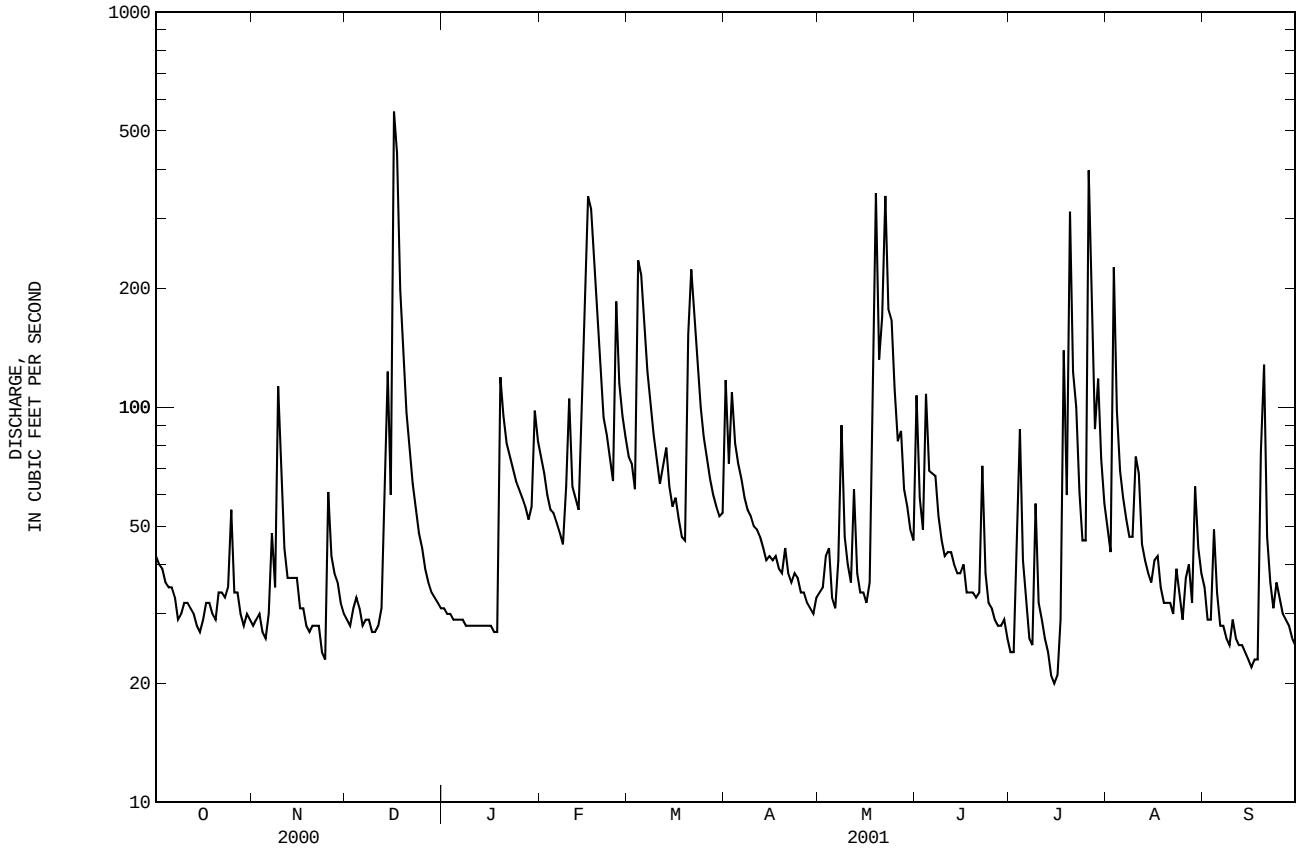
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	34.9	34.4	57.4	82.7	114	99.3	78.5	92.7	117	94.3	45.7	45.1
MAX	37.8	37.0	81.3	117	136	119	127	174	284	199	52.4	70.5
(WY)	1999	2001	2001	1998	1998	1999	1998	1998	1998	1998	1998	2000
MIN	32.1	32.0	41.2	47.8	97.6	84.9	49.6	46.5	46.4	50.7	33.4	24.9
(WY)	2000	2000	2000	2001	1999	1998	1999	2000	2001	2000	1999	1999

03289200 TOWN BRANCH AT YARNALLTON ROAD AT YARNALLTON, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001	
ANNUAL TOTAL	23691		22677			
ANNUAL MEAN	64.7		62.1		74.5	
HIGHEST ANNUAL MEAN					113	1998
LOWEST ANNUAL MEAN					60.8	2000
HIGHEST DAILY MEAN	728	Feb 18	559	Dec 16	1960	Jul 20 1998
LOWEST DAILY MEAN	22	Jan 1	20	Jul 15	17	Nov 29 1997
ANNUAL SEVEN-DAY MINIMUM	27	Nov 18	24	Sep 12	22	Sep 13 1999
MAXIMUM PEAK FLOW			1820	Dec 16	6750	Jun 29 1998
MAXIMUM PEAK STAGE			5.48	Dec 16	9.12	Jun 29 1998
INSTANTANEOUS LOW FLOW			13	Jul 16	13	Jul 16 2001
ANNUAL RUNOFF (CFSM)	.16		.15		.18	
ANNUAL RUNOFF (INCHES)	2.19		2.09		2.51	
10 PERCENT EXCEEDS	120		117		146	
50 PERCENT EXCEEDS	39		41		48	
90 PERCENT EXCEEDS	29		28		26	

e Estimated



03289300 SOUTH ELKHORN CREEK NEAR MIDWAY, KY

LOCATION.--Lat 38°08'27", long 84°38'43", Scott County, Hydrologic Unit 05100205, on right bank, 5 ft upstream from bridge on U.S. Route 62/421, 2.2 mi southeast of Midway, 6.5 mi downstream from Town Branch, and at mile 27.6.

DRAINAGE AREA.--105 mi^2, of which about 21 mi^2 does not contribute directly to surface runoff.

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 790 ft above NGVD of 1929.

REMARKS.--Records good except for those estimated which are fair. Water is diverted from the Kentucky River for use by the city of Lexington and is discharged into Town Branch at a site 17 mi above gage. Discharge partially regulated by low-head turbine, 1 mile upstream, since October 1989. Regulation does not effect peak discharge.

COOPERATION.--Kentucky River Authority.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 17	0500	*2,600	14.07	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	18	13	40	e280	184	189	28	151	20	64	55
2	57	16	12	38	e230	168	168	26	127	32	48	54
3	42	17	12	36	e190	148	202	18	91	24	290	41
4	37	20	22	e34	e160	364	190	47	142	104	319	62
5	28	18	14	e32	e140	697	169	24	146	83	187	72
6	30	21	21	e30	e120	457	156	19	106	43	137	53
7	31	38	7.5	e29	e110	338	141	31	117	21	110	30
8	24	40	12	e28	e98	266	127	94	109	21	88	37
9	34	90	12	e27	e90	217	117	73	82	71	72	33
10	28	145	10	e26	e82.0	182	108	40	66	51	79	53
11	24	52	19	e25	e120	156	102	31	59	35	134	43
12	23	29	15	e24	e190	139	92	62	55	28	81	34
13	8.5	22	18	e24	e180	168	82	43	48	13	62	40
14	16	20	201	e23	e160	135	73	35	62	16	50	31
15	14	20	137	e23	e140	116	69	29	61	12	43	20
16	17	16	448	e23	e180	115	71	22	71	24	35	25
17	16	11	1780	e22	e700	105	65	20	48	19	54	43
18	21	11	565	36	e680	90	63	229	44	144	39	33
19	18	9.0	352	153	e520	81	54	557	37	124	34	36
20	14	9.5	246	244	e400	131	53	331	32	151	40	230
21	18	10	192	e260	e320	526	60	241	30	251	33	86
22	31	6.7	155	e200	209	427	48	614	71	114	32	52
23	30	7.7	124	e180	182	327	47	423	61	116	29	38
24	27	5.3	111	e165	154	260	44	341	36	83	46	39
25	60	36	88	e150	322	212	38	268	37	51	31	39
26	38	44	77	e140	312	180	35	197	31	335	36	30
27	25	35	e60	e130	250	155	27	181	29	389	54	30
28	21	26	64	e120	214	137	28	144	25	167	46	26
29	17	22	56	e110	---	124	25	118	26	151	89	21
30	19	11	47	e100	---	114	32	99	15	164	88	19
31	20	---	44	e180	---	112	---	83	---	93	66	---
TOTAL	847.5	826.2	4934.5	2652	6733.0	6831	2675	4468	2015	2950	2516	1405
MEAN	27.3	27.5	159	85.5	240	220	89.2	144	67.2	95.2	81.2	46.8
MAX	60	145	1780	260	700	697	202	614	151	389	319	230
MIN	8.5	5.3	7.5	22	82	81	25	18	15	12	29	19
CFSM	.26	.26	1.52	.81	2.29	2.10	.85	1.37	.64	.91	.77	.45
IN.	.30	.29	1.75	.94	2.39	2.42	.95	1.58	.71	1.05	.89	.50

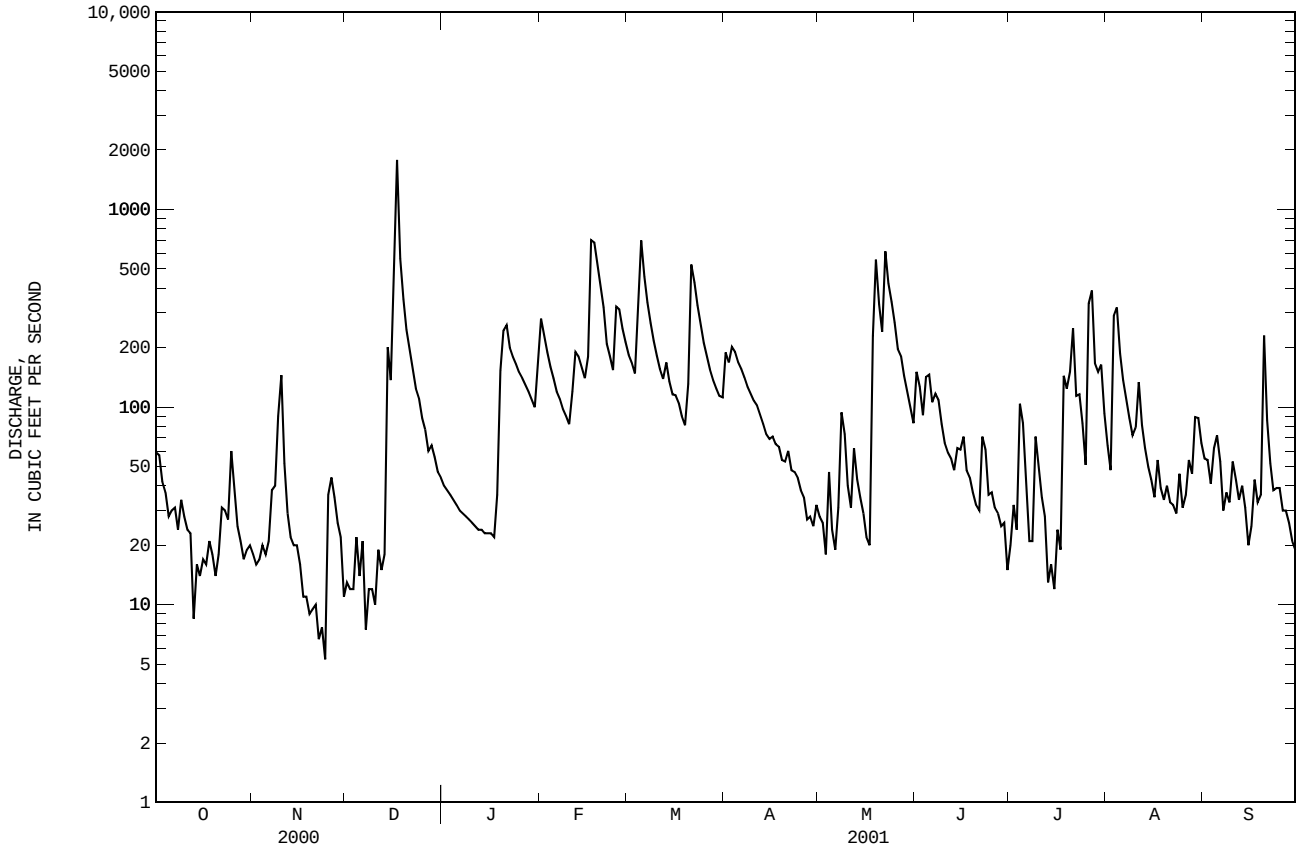
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2001, BY WATER YEAR (WY)

MEAN	60.0	120	218	233	289	305	179	204	170	101	66.6	55.9
MAX	151	307	673	405	1030	1165	366	718	606	443	255	108
(WY)	1991	1994	1991	1996	1989	1997	1984	1983	1997	1998	1992	1992
MIN	24.5	21.1	42.6	50.4	114	60.1	60.9	35.9	39.5	35.8	22.5	16.4
(WY)	2000	2000	2000	1986	1993	1983	1986	1999	1988	1983	1999	1999

03289300 SOUTH ELKHORN CREEK NEAR MIDWAY, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1982 - 2001	
ANNUAL TOTAL	40364.3		38853.2			
ANNUAL MEAN	110		106		166	
HIGHEST ANNUAL MEAN					276	1997
LOWEST ANNUAL MEAN					99.6	2000
HIGHEST DAILY MEAN	2390	Feb 19	1780	Dec 17	10700	Mar 2 1997
LOWEST DAILY MEAN	5.3	Nov 24	5.3	Nov 24	3.1	Oct 8 1994
ANNUAL SEVEN-DAY MINIMUM	8.5	Nov 18	8.5	Nov 18	8.5	Nov 18 2000
MAXIMUM PEAK FLOW			2600	Dec 17	12300	Mar 2 1997
MAXIMUM PEAK STAGE			14.07	Dec 17	26.37	Mar 2 1997
INSTANTANEOUS LOW FLOW					.00	Oct 7 1992
ANNUAL RUNOFF (CFSM)	1.05		1.01		1.58	
ANNUAL RUNOFF (INCHES)	14.30		13.77		21.51	
10 PERCENT EXCEEDS	246		242		349	
50 PERCENT EXCEEDS	47		54		86	
90 PERCENT EXCEEDS	16		18		28	

e Estimated



03289500 ELKHORN CREEK NEAR FRANKFORT, KY

LOCATION.--Lat 38°16'07", long 84°48'53", Franklin County, Hydrologic Unit 05100205, on right bank, 50 ft downstream from bridge on State Highway 1900, 4.2 mi northeast of city limits of Frankfort, 7.4 mi downstream from confluence of North and South Elkhorn Creeks, and at mile 10.4.

DRAINAGE AREA.--473 mi^2 of which about 70 mi^2 does not contribute directly to surface runoff.

PERIOD OF RECORD.--May 1915 to December 1920 (gage heights only, October 1918 to December 1920), December 1939 to August 1984, October 1987 to current year. Published as "at Forks of Elkhorn" 1915-20.

REVISED RECORDS.--WSP 1555: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is approximately 540.20 ft above sea level. See WDR KY-90-1 for history of changes prior to Aug. 31, 1970.

REMARKS.--Records fair except for those estimated which are poor. City of Lexington diverts water from Hickman Creek in Kentucky River Basin for municipal water supply; return flow of which enters tributary above station.

COOPERATION.--Kentucky River Authority.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 2, 1932, reached a stage of about 17.5 ft, from information by local resident. Flood of January 1937 was about 0.3 ft lower.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 17	0015	*10,100	*10.68	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	265	65	e108	e188	963	746	436	110	222	79	462	245
2	219	67	e104	e175	794	648	585	98	284	72	327	212
3	194	67	e98	e165	662	570	662	97	288	77	1160	180
4	162	63	e92	e160	568	1300	829	88	270	120	2460	228
5	142	61	e88	e155	500	3940	734	105	351	182	1210	269
6	128	62	e84	e145	445	2710	651	91	360	189	669	183
7	120	76	e78	e140	393	1780	584	80	328	155	457	138
8	113	84	e74	e135	350	1300	514	100	424	117	342	106
9	103	152	e72	e130	328	990	454	138	341	109	264	92
10	100	397	e69	e128	656	767	416	149	262	125	223	84
11	93	336	e67	e123	795	625	421	118	211	145	312	83
12	87	238	e64	e118	653	531	366	128	181	112	465	84
13	81	190	e62	e115	584	500	314	124	159	92	224	73
14	77	155	236	e112	541	490	275	120	150	75	179	63
15	65	132	571	e108	1010	421	256	105	146	67	146	59
16	71	119	4280	e106	3510	388	241	90	142	63	124	52
17	70	110	8650	e130	5550	381	232	80	138	65	104	47
18	70	97	3860	165	3560	337	218	103	121	111	111	47
19	64	e87	1980	263	2190	294	204	940	110	208	104	55
20	66	e82	1290	767	1560	285	193	1120	96	299	89	69
21	70	e76	942	902	1160	1580	183	796	89	431	87	221
22	79	e71	727	748	886	2460	185	1100	94	350	78	186
23	77	e67	595	645	732	1680	167	1740	115	3660	75	134
24	86	e65	475	581	620	1220	159	1080	135	592	71	102
25	89	90	415	535	762	908	144	868	107	330	93	85
26	107	118	375	494	1480	708	131	668	102	1160	92	79
27	109	157	328	467	1190	589	124	511	90	2410	89	68
28	94	149	e280	430	922	500	111	445	80	1590	94	63
29	81	129	e260	406	---	440	108	349	74	3630	217	59
30	72	118	e220	709	---	397	108	279	70	1230	862	55
31	66	---	e205	1070	---	379	---	236	---	727	363	---
TOTAL	3220	3680	26749	10515	33364	29864	10005	12056	5540	18572	11553	3421
MEAN	104	123	863	339	1192	963	334	389	185	599	373	114
MAX	265	397	8650	1070	5550	3940	829	1740	424	3660	2460	269
MIN	64	61	62	106	328	285	108	80	70	63	71	47
CFSM	.26	.30	2.14	.84	2.96	2.39	.83	.97	.46	1.49	.93	.28
IN.	.30	.34	2.47	.97	3.08	2.76	.92	1.11	.51	1.72	1.07	.32

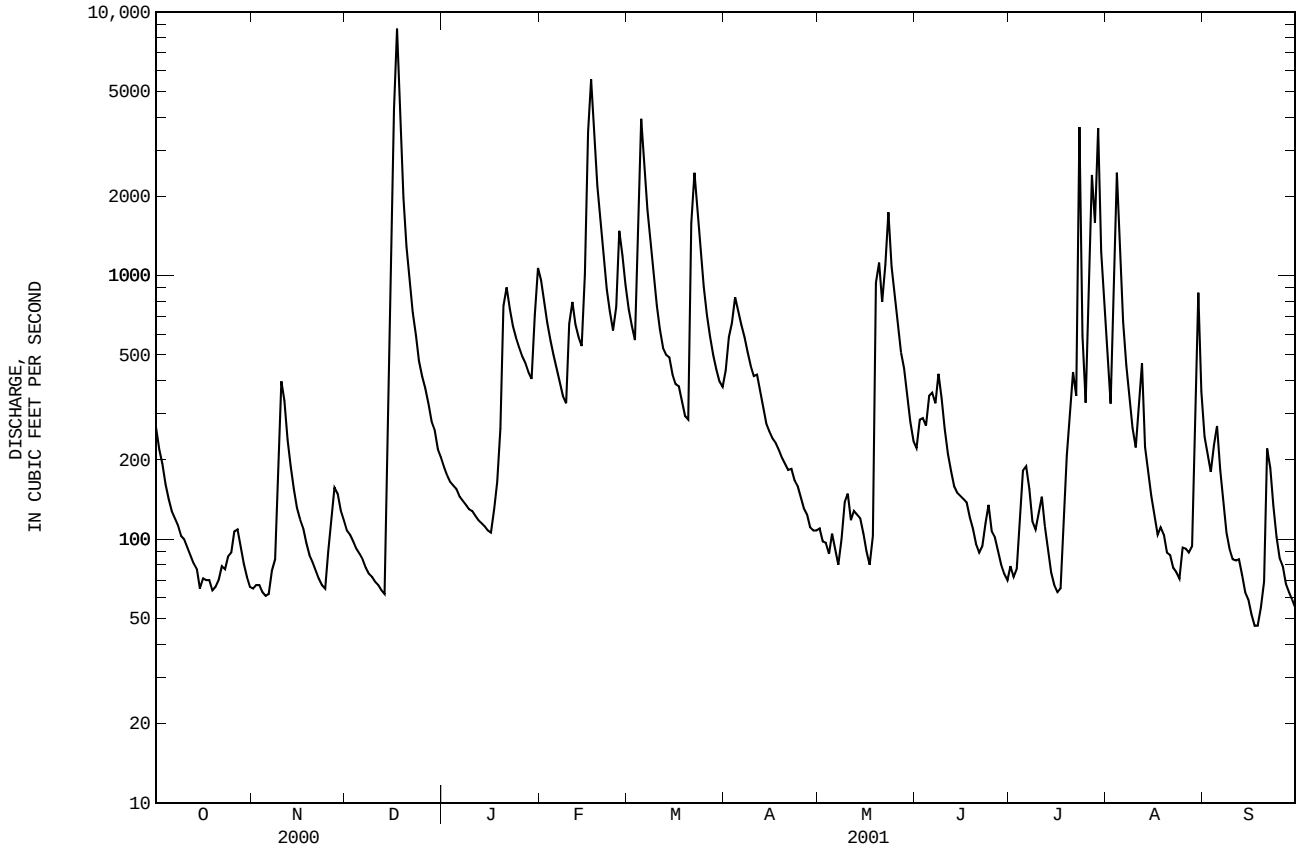
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2001, BY WATER YEAR (WY)

MEAN	126	315	850	1116	1298	1404	901	652	423	262	176	154
MAX	1012	1379	3138	4630	4438	4309	3332	3747	2686	1708	963	2101
(WY)	1976	1943	1979	1950	1989	1964	1948	1983	1997	1998	1992	1979
MIN	5.94	12.1	17.3	33.8	64.5	145	119	51.8	31.7	15.9	17.7	9.21
(WY)	1944	1944	1944	1944	1944	1941	1918	1941	1944	1944	1948	1953

03289500 ELKHORN CREEK NEAR FRANKFORT, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1916 - 2001	
ANNUAL TOTAL	167539		168539			
ANNUAL MEAN	458		462		637	
HIGHEST ANNUAL MEAN					1103	1997
LOWEST ANNUAL MEAN					126	1954
HIGHEST DAILY MEAN	15100	Feb 19	8650	Dec 17	25000	Feb 16 1989
LOWEST DAILY MEAN	30	Jan 2	47	Sep 17	.00	Jan 7 1940
ANNUAL SEVEN-DAY MINIMUM	51	Jun 9	56	Sep 14	.00	Jan 7 1940
MAXIMUM PEAK FLOW			10100	Dec 17	35900	Mar 4 1997
MAXIMUM PEAK STAGE			10.68	Dec 17	17.96	Mar 3 1997
ANNUAL RUNOFF (CFSM)	1.14		1.15		1.58	
ANNUAL RUNOFF (INCHES)	15.49		15.58		21.51	
10 PERCENT EXCEEDS	938		1030		1600	
50 PERCENT EXCEEDS	138		181		202	
90 PERCENT EXCEEDS	66		71		34	

e Estimated



03290500 KENTUCKY RIVER AT LOCK 2, AT LOCKPORT, KY

LOCATION.--Lat 38°26'20", long 84°57'48", Henry County, Hydrologic Unit 05100205, on left bank at lock 2 at Lockport, 0.1 mi downstream from Sixmile Creek and at mile 31.0.

DRAINAGE AREA.--6,180 mi^2, of which about 196 mi^2 does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1925 to September 1930, March 1931 to September 1931, December 1931 to April 1932, October 1933 to September 1937, and July 1939 to current year. Monthly discharge only for some periods, published in WSP 1305. Monthly discharge only for June to January 1931, published in WSP 1305; figures of daily discharge published in WSP 698 are unreliable.

REVISED RECORDS.--WSP 1385: 1926-29, 1932, 1934-37, 1945. WSP 1555: Drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 433.36 ft above NGVD of 1929. Prior to August 29, 1975, nonrecording gage at same site and datum. Auxiliary nonrecording gage at lock 3, 11.0 mi upstream.

REMARKS.-- Records fair. Flow regulated by Carr Fork Lake beginning January 1976 (station 03277446), Buckhorn Lake beginning December 1960 (station 03280800), Herrington Lake beginning November 1925 (station 03286000), and by hydroelectric plant at lock 7. Auxiliary gage readings furnished by U.S. Army Corps of Engineers, Louisville District.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1800	767	820	1840	7100	15500	5530	1490	1840	1440	17900	1310
2	1430	775	768	1700	6550	13100	5730	1400	2050	1310	14300	1190
3	1150	785	796	1540	5800	11100	7310	1310	2400	1140	8480	1130
4	1300	777	809	1490	5040	13400	7980	1280	2640	1740	14500	1210
5	1530	758	768	1350	4360	e16800	9650	1240	2530	2050	14800	1230
6	1680	754	747	1200	4300	e17000	11500	1270	3350	2740	8670	1180
7	1590	846	759	1160	4030	15700	12000	1280	3650	4080	8450	1030
8	943	829	849	1180	3580	14800	10500	1300	5560	4360	7230	844
9	558	1240	844	1200	2910	12700	8330	1260	9840	3440	5050	704
10	422	2150	729	1190	4440	9480	6580	1310	11500	5010	3880	671
11	378	2060	e550	1160	4290	7780	5860	1450	8120	7060	4020	592
12	354	1980	e560	1120	4440	6590	4850	1630	5310	5760	9950	551
13	329	1900	e660	1060	4690	6720	4140	1380	3640	4290	8610	539
14	321	1840	e1200	1030	4660	5650	3690	1140	2790	2990	5990	475
15	312	1740	e2500	1080	9190	5360	3500	972	2370	2180	5650	431
16	314	1560	15900	1160	e28000	6380	3470	845	2010	1650	6450	406
17	332	1400	e28000	1160	e46000	5720	3340	815	1780	1320	4990	381
18	348	1280	38900	1160	e45000	6270	3150	1470	2020	1260	3410	363
19	353	1160	36100	2020	e44000	6950	2950	7820	1870	1240	2490	388
20	364	1060	20900	5160	39300	6650	2760	5060	1530	1470	2010	450
21	411	1000	10800	18900	21300	e14800	2610	5000	1250	1750	1710	483
22	525	973	7230	29200	15600	e21400	2480	6450	1080	2050	1490	521
23	593	916	5600	20100	13200	e18500	2340	8590	984	4340	1370	474
24	623	866	4650	12100	12500	e17000	2190	7600	1090	2720	1220	458
25	680	1230	3780	9670	15600	16900	2070	6240	1220	1990	1090	428
26	837	1440	3100	9010	18800	14600	1950	5880	1260	3090	1090	410
27	926	1180	2720	8370	19100	10400	1840	5260	1280	10100	1120	400
28	917	1070	2380	6690	18200	8090	1730	4080	1270	12900	1050	401
29	881	945	2210	5290	---	6740	1640	3210	1280	13400	1500	450
30	826	872	2070	6320	---	5800	1570	2580	1350	19700	1830	557
31	785	---	1920	6600	---	6390	---	2080	---	19700	1590	---
TOTAL	23812	36153	199619	162210	411980	344270	143240	92692	88864	148270	171890	19657
MEAN	768	1205	6439	5233	14710	11110	4775	2990	2962	4783	5545	655
MAX	1800	2150	38900	29200	46000	21400	12000	8590	11500	19700	17900	1310
MIN	312	754	550	1030	2910	5360	1570	815	984	1140	1050	363

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2001, BY WATER YEAR (WY)

MEAN	2232	4763	10620	13230	15010	18540	13740	9983	5531	2825	2416	2091
MAX	14120	13960	39510	37850	40180	40410	41540	34340	23380	8458	8589	14740
(WY)	1990	1987	1979	1974	1989	1975	1972	1983	1997	1998	1992	1979
MIN	421	511	668	770	4073	4423	2074	1518	508	545	307	187
(WY)	2000	2000	1966	1981	1968	1983	1986	1976	1988	1999	1999	1999

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

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1961 - 2001	
ANNUAL TOTAL	1781822		1842657			
ANNUAL MEAN	4868		5048		8386	
HIGHEST ANNUAL MEAN					14030	1979
LOWEST ANNUAL MEAN					3891	1988
HIGHEST DAILY MEAN	39200	Feb 20	46000	Feb 17	121000	Dec 11 1978
LOWEST DAILY MEAN	312	Oct 15	312	Oct 15	112	Sep 16 1999
ANNUAL SEVEN-DAY MINIMUM	330	Oct 13	330	Oct 13	125	Sep 10 1999
MAXIMUM PEAK FLOW			unknown	Feb 18	123000	Jan 26 1937
MAXIMUM PEAK STAGE			25.51	Feb 18	56.85	Jan 24 1937
10 PERCENT EXCEEDS	12000		13800		21300	
50 PERCENT EXCEEDS	2460		2010		3740	
90 PERCENT EXCEEDS	676		593		614	

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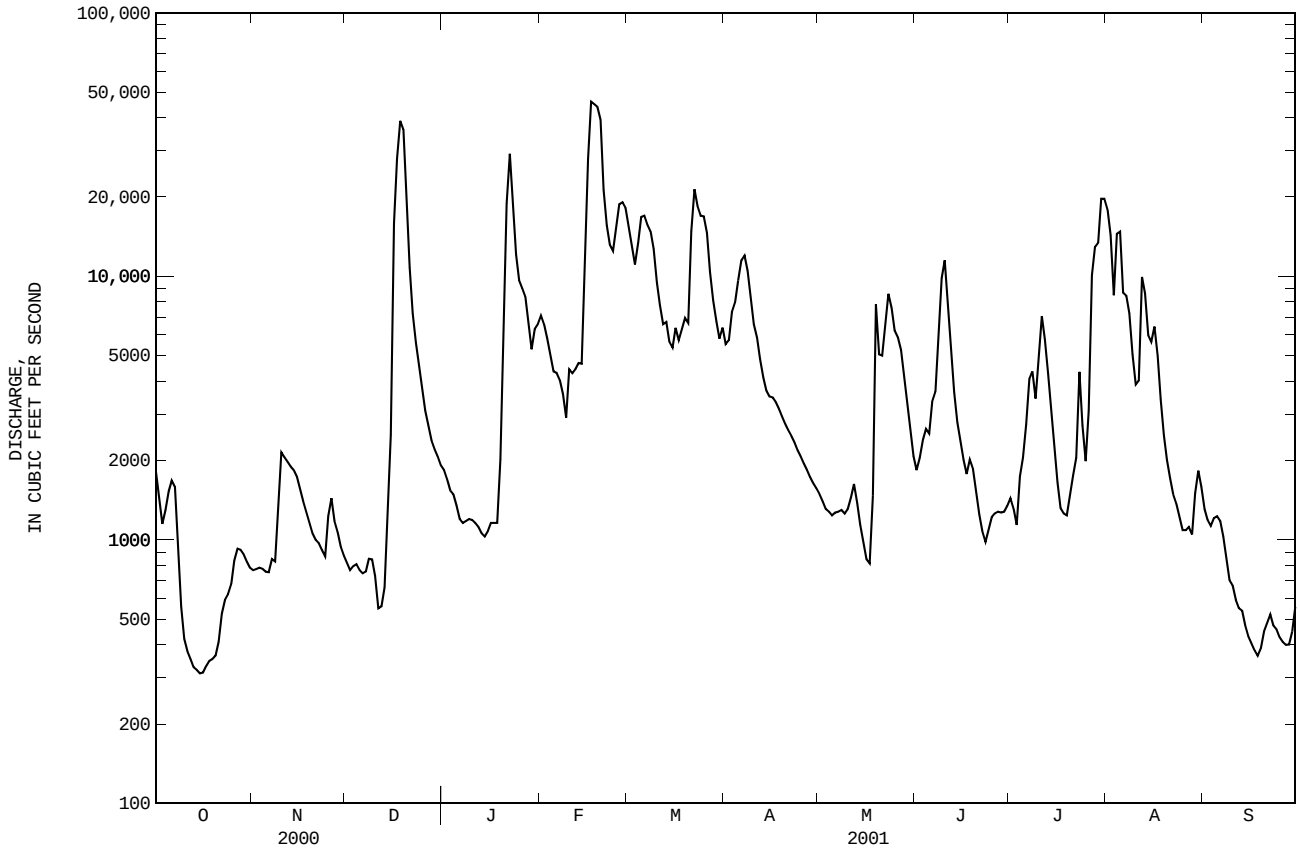


03291500 EAGLE CREEK AT GLENCOE, KY

LOCATION.--Lat 38°42'18", long 84°49'26", Gallatin County, Hydrologic Unit 05100205, on left bank 600 ft upstream from bridge on U.S. Highway 127, 0.6 mi south of Glencoe, 5.8 mi downstream from Tenmile Creek, and at mile 21.6.

DRAINAGE AREA.--437 mi^2.

PERIOD OF RECORD.--April 1915 to September 1918, October 1918 to December 1920 (gage heights only), May 1928 to September 1931, June 1938 to September 1977, December 1988 to current year. Monthly discharge only for May 1915, June 1938, published in WSP 1305.

REVISED RECORDS.--WSP 1275: 1916-17, 1920(M). WSP 1555: Drainage area. WSP 1908: 1939-40(M), 1943(M), 1945(M), 1948(P), 1950(M), 1956- 57(P), 1960(M).

GAGE.--Water-stage recorder. Datum of gage is 508.52 ft above NGVD of 1929. Prior Oct. 1, 1950, nonrecording gages at same site and datum. Oct. 1, 1950 to Oct. 19, 1960, nonrecording gage 600 ft downstream at same datum.

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

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 6	0930	*19,500	16.86	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	24	81	e15	e1400	e350	e130	34	226	56	328	181
2	63	25	68	e14.5	e720	e290	e600	34	580	31	199	133
3	48	24	58	e14	e440	e250	e230	29	1170	22	383	79
4	39	33	51	e13	e360	e220	e170	28	1220	47	2890	49
5	35	40	47	e12.5	e310	e1250	e140	28	1620	291	711	32
6	106	37	42	e12	e270	e700	e120	28	12300	97	346	21
7	305	42	39	e11.5	e250	e410	e420	28	4100	51	199	15
8	124	47	37	e11	e230	e310	e250	36	1190	331	131	15
9	73	61	35	e10.8	e210	e270	e150	45	645	3160	92	14
10	52	612	34	e10.2	e700	e240	e120	37	331	605	91	10
11	40	515	35	e10	e1600	e215	e200	34	202	287	103	6.7
12	32	252	60	e16	e580	e200	e150	36	144	177	85	4.7
13	29	151	77	e27	e390	e185	e110	64	540	118	468	3.5
14	26	105	142	e52	e330	e520	e78	94	236	78	188	2.3
15	23	80	171	78	e690	e250	e59	58	128	56	97	1.5
16	21	66	1380	131	e1500	e220	e220	44	264	43	62	.98
17	20	57	152	117	e960	e430	e125	44	162	36	45	.67
18	19	50	54	108	e630	e290	e81	328	75	414	36	.52
19	19	45	e47	e97	e490	e200	e108	3300	47	1550	33	.56
20	18	41	e42	e510	e380	e156	e82	2420	883	516	28	.53
21	18	36	e37	e300	e320	1090	e280	573	595	287	24	.64
22	17	33	e33	e240	e280	1260	e150	1440	252	527	21	.80
23	15	31	e30	e200	e250	687	e88	1480	170	4400	20	1.0
24	15	29	e27	e160	e230	394	e400	632	86	835	17	1.8
25	17	71	e25	e190	e210	283	e150	490	66	270	17	1.6
26	18	363	e23	e150	e2500	223	e72	470	45	1420	18	2.1
27	19	306	e21	e130	e780	187	47	476	34	1790	18	2.4
28	20	224	e20	e200	e430	163	44	506	30	909	22	2.4
29	20	150	e18	e140	---	149	39	300	27	1870	1580	2.7
30	21	105	e17	e780	---	e143	36	207	108	2120	2010	3.3
31	21	---	e16	e2800	---	e135	---	148	---	641	382	---
TOTAL	1380	3655	2919	6560.5	17440	11670	4849	13471	27476	23035	10644	589.70
MEAN	44.5	122	94.2	212	623	376	162	435	916	743	343	19.7
MAX	305	612	1380	2800	2500	1260	600	3300	12300	4400	2890	181
MIN	15	24	16	10	210	135	36	28	27	22	17	.52
CFSM	.10	.28	.22	.48	1.43	.86	.37	.99	2.10	1.70	.79	.04
IN.	.12	.31	.25	.56	1.48	.99	.41	1.15	2.34	1.96	.91	.05

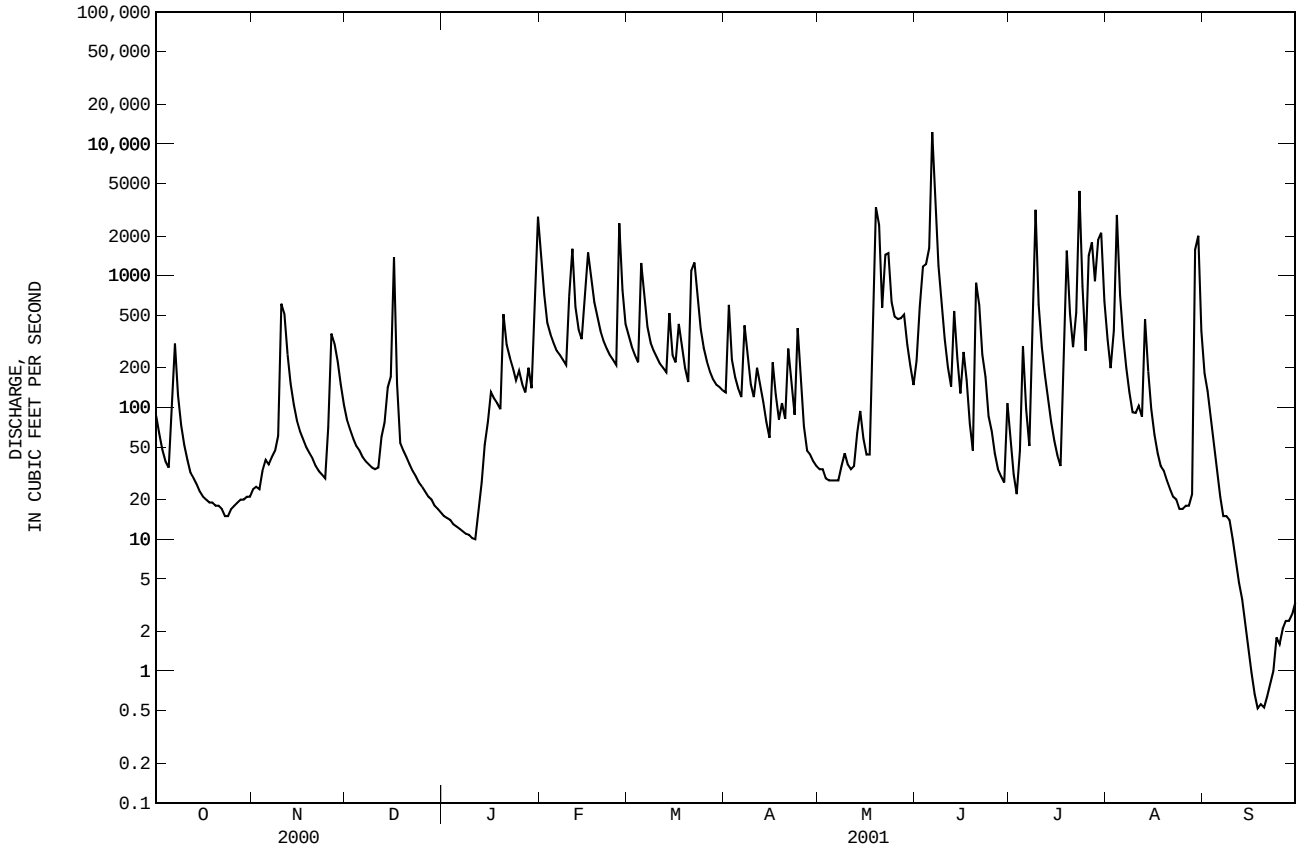
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2001, BY WATER YEAR (WY)

MEAN	100	327	625	945	1077	1276	917	656	468	252	128	104
MAX	1005	1641	1874	3170	3295	5197	2910	3190	2673	1016	755	1355
(WY)	1976	1973	1952	1950	1956	1964	1948	1996	1997	1957	1977	1965
MIN	.000	.000	.000	2.85	44.6	120	131	25.5	1.56	.14	.000	.000
(WY)	1931	1931	1931	1931	1954	1941	1976	1930	1930	1930	1930	1930

03291500 EAGLE CREEK AT GLENCOE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1916 - 2001	
ANNUAL TOTAL	146735.7		123689.20			
ANNUAL MEAN	401		339		569	
HIGHEST ANNUAL MEAN					1059	1973
LOWEST ANNUAL MEAN					117	1954
HIGHEST DAILY MEAN	12300	Jan 4	12300	Jun 6	39300	Mar 10 1964
LOWEST DAILY MEAN	5.3	Jun 16	.52	Sep 18	.00	Jul 15 1930
ANNUAL SEVEN-DAY MINIMUM	7.0	Jun 10	.67	Sep 16	.00	Jul 15 1930
MAXIMUM PEAK FLOW			19500	Jun 6	58300	Mar 2 1997
MAXIMUM PEAK STAGE			16.86	Jun 6	29.08	Mar 2 1997
ANNUAL RUNOFF (CFSM)	.92		.78		1.30	
ANNUAL RUNOFF (INCHES)	12.49		10.53		17.69	
10 PERCENT EXCEEDS	740		715		1280	
50 PERCENT EXCEEDS	60		105		96	
90 PERCENT EXCEEDS	18		15		1.2	

e Estimated



03292470 HARRODS CREEK AT HIGHWAY 329 NEAR GOSHEN, KY

LOCATION.--Lat 38°21'42", long 85°34'30", Oldham County, Hydrologic Unit 05140101, on downstream side of bridge on Highway 329 (Covered Bridge Road) 0.8 mi upstream from South Fork, 3.1 mi south of Goshen, and at mile 7.29.

DRAINAGE AREA.--70.3 mi^2.

PERIOD OF RECORD.--December 15, 1998 to current year.

GAGE.--Water-stage recorder.

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

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	1225	*8,790	*9.56	May 19	0440	4,770	7.14
Feb 25	1020	3,180	6.12	Jun 6	2120	4,940	7.25

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	e3.2	16	e14	168	94	30	9.3	77	e6.8	6.8	5.4
2	5.2	e4.3	15	e14	109	81	28	9.1	96	e6.0	4.9	4.9
3	4.6	e6.2	13	e14	75	69	56	8.8	102	e7.2	5.4	3.2
4	4.2	e8.4	12	e14	66	577	65	8.4	128	e8.2	9.9	2.8
5	4.2	e12	12	e14	59	530	e44	7.3	301	e7.6	5.8	2.7
6	7.6	17	11	e13	51	202	e41	7.8	1090	e7.4	3.8	2.8
7	8.8	24	e11	e13	44	136	e38	19	915	e8.1	2.9	3.0
8	8.2	28	e10.5	e13	39	105	35	144	193	e6.9	2.3	12
9	7.4	54	10	e13	43	84	31	42	94	e17	1.8	14
10	5.6	87	10	e13	295	70	31	23	59	e14	2.4	59
11	5.0	21	13	e13	114	61	38	17	41	e11	5.6	19
12	4.8	11	82	e13	81	55	33	19	32	e8.2	4.4	8.6
13	8.9	8.6	50	e15	68	57	27	19	25	e6.6	3.0	5.2
14	11	6.9	154	e26	77	48	23	14	20	e5.6	1.8	4.4
15	9.1	5.3	101	49	1100	43	23	11	e17	e5.3	1.4	3.3
16	6.0	4.4	3970	44	1090	48	23	9.7	e12	e5.0	1.3	2.7
17	5.1	3.4	1410	35	698	46	20	8.6	e9.4	e4.8	.94	2.1
18	7.8	3.1	e290	33	263	40	19	68	e7.0	e310	.78	1.8
19	14	2.6	e100	48	177	36	18	1880	e5.6	e31	1.1	3.3
20	20	2.4	e50	e70	131	34	18	206	e25	e7.4	1.1	6.1
21	26	2.1	e40	e30	95	46	18	150	e18	e6.7	1.2	5.9
22	e20	1.8	e30	e26	80	54	17	382	e13	e5.9	1.0	4.9
23	e14	1.6	e25	e24	69	43	16	148	e9.4	e5.4	.94	5.1
24	e10	1.7	e20	e22	61	37	15	87	e6.8	e5.0	.83	18
25	e8.0	53	e19	e19	1130	31	14	64	e5.5	e4.7	.71	13
26	e6.4	118	e18	e18	298	28	13	48	e4.3	e250	42	6.8
27	e5.3	53	e17	e17	171	26	12	131	e3.5	e72	57	4.3
28	e4.8	33	e16	e16	122	25	11	77	e4.1	e35	14	3.2
29	e4.3	24	e16	e26	---	25	10	48	e4.7	e21	11	2.1
30	e3.7	20	e15	280	---	26	9.3	34	e5.7	e14	6.1	2.4
31	e3.4	---	e15	300	---	29	---	28	---	e9.4	4.4	---
TOTAL	260.1	621.0	6571.5	1259	6774	2786	776.3	3728.0	3324.0	913.2	206.60	232.0
MEAN	8.39	20.7	212	40.6	242	89.9	25.9	120	111	29.5	6.66	7.73
MAX	26	118	3970	300	1130	577	65	1880	1090	310	57	59
MIN	3.4	1.6	10	13	39	25	9.3	7.3	3.5	4.7	.71	1.8

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	5.19	12.0	148	170	299	132	84.1	51.1	80.7	17.1	7.27	15.9
MAX	8.39	20.7	212	289	526	191	175	120	111	29.5	14.9	40.0
(WY)	2001	2001	2001	2000	2000	2000	2000	2001	2001	2001	2000	2000
MIN	1.99	3.33	83.5	40.6	121	89.9	25.9	16.5	35.0	6.81	.29	.089
(WY)	2000	2000	2000	2001	1999	2001	2001	1999	1999	1999	1999	1999

03292470 HARRODS CREEK AT HIGHWAY 329 NEAR GOSHEN, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	48379.01		27451.70			
ANNUAL MEAN	132		75.2		97.3	
HIGHEST ANNUAL MEAN					119	2000
LOWEST ANNUAL MEAN					75.2	2001
HIGHEST DAILY MEAN	7360	Feb 18	3970	Dec 16	7360	Feb 18 2000
LOWEST DAILY MEAN	.96	Jun 14	.71	Aug 25	.00	Sep 2 1999
ANNUAL SEVEN-DAY MINIMUM	1.1	Jun 10	.98	Aug 19	.00	Sep 2 1999
MAXIMUM PEAK FLOW			8790	Dec 16	16500	Feb 18 2000
MAXIMUM PEAK STAGE			9.56	Dec 16	14.76	Feb 18 2000
10 PERCENT EXCEEDS	153		120		136	
50 PERCENT EXCEEDS	15		16		14	
90 PERCENT EXCEEDS	3.2		3.3		1.3	

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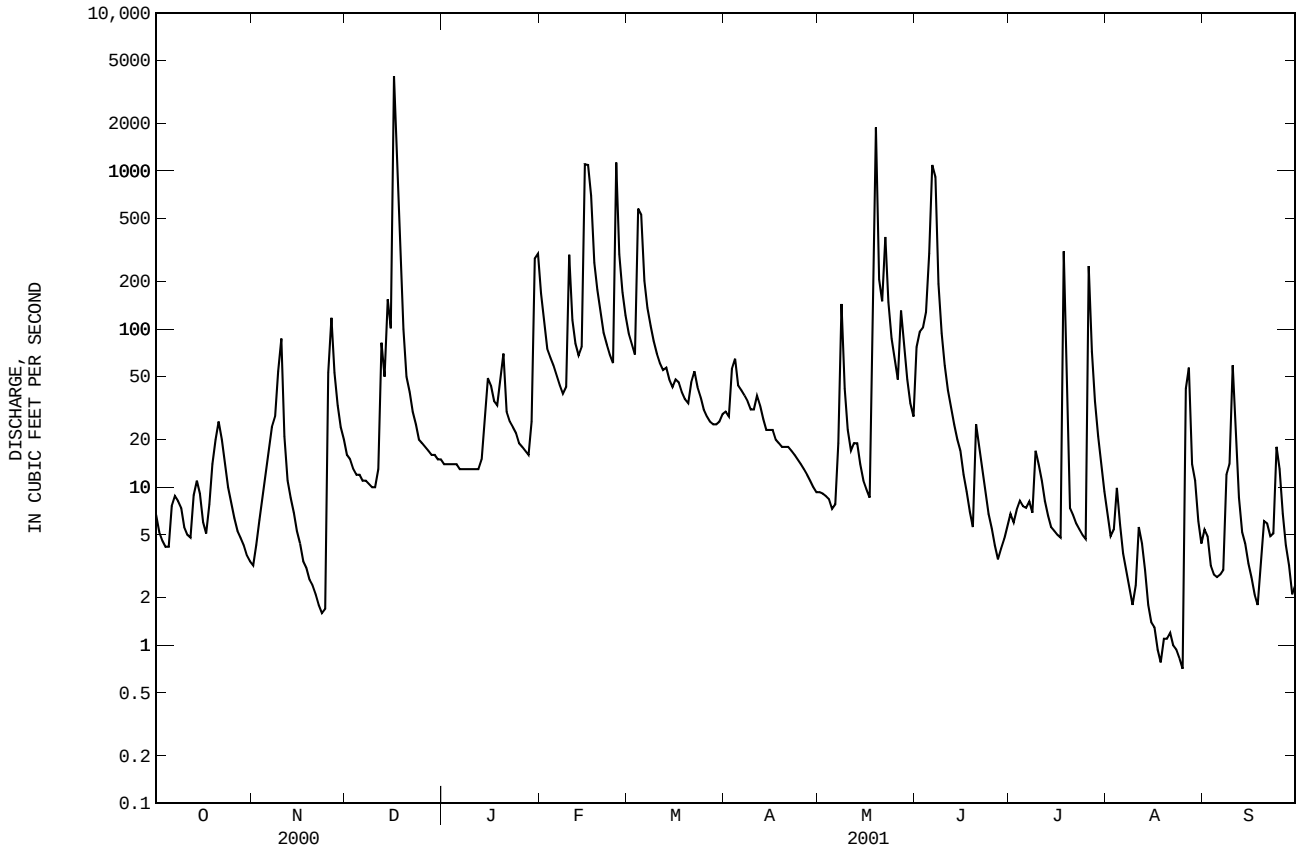

03292474 GOOSE CREEK AT OLD WESTPORT ROAD NEAR ST. MATTHEWS, KY

LOCATION.--Lat 38°16'33", long 85°36'22", Jefferson County, Hydrologic Unit 05140101, on downstream side of bridge on Westport Road, left bank, 1.2 mile northeast of St. Matthews, 5.0 miles above Little Goose Creek, and at mile 5.5

DRAINAGE AREA.--6.0 mi^2.

PERIOD OF RECORD.--October 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage.

REMARKS.--Records poor.

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 225 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	0700	*358	*3.50	No other peak above base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.83	.35	.97	e2.8	6.8	8.3	4.0	1.2	3.4	e1.5	e3.0	.68
2	.74	.29	.84	e2.6	e6.0	7.9	3.2	1.2	5.6	e1.3	e2.8	.47
3	.65	.26	.74	e2.5	e5.2	6.9	6.7	1.1	3.8	e1.5	e5.0	2.8
4	.56	.24	.64	e2.4	e4.8	25	5.0	1.0	6.5	e1.1	e3.1	1.5
5	.65	.27	.61	e2.3	e4.4	19	4.4	.94	4.9	e.94	e2.7	e.98
6	1.9	.91	.55	e2.2	e4.1	15	3.8	1.3	3.6	e.82	e2.3	.57
7	.93	1.3	.53	e2.1	e3.8	12	3.5	20	4.5	e.90	e2.3	3.5
8	.68	1.6	.52	e2.0	3.6	11	3.1	24	3.5	e1.4	e2.0	5.9
9	.64	12	.45	e1.9	6.7	9.2	3.2	8.4	e2.7	e7.0	e1.9	13
10	.68	5.3	.52	e1.9	9.1	7.8	9.4	5.9	e2.3	e4.0	e2.1	11
11	.64	1.9	2.0	e1.8	6.2	6.8	8.9	6.9	e2.0	e2.4	e6.0	3.0
12	.58	1.2	2.3	e1.8	5.7	6.4	5.5	11	e1.8	e2.7	e2.5	1.9
13	.54	.96	3.7	e1.7	5.7	6.4	4.3	5.8	e1.7	e2.0	e2.0	1.5
14	.51	.78	7.8	e1.7	6.6	5.3	3.7	4.0	e1.7	e1.9	e1.7	1.1
15	.48	.62	4.5	e1.7	46	5.0	3.8	3.4	e5.0	e1.7	e1.5	1.0
16	.49	.53	161	e1.6	35	5.9	3.4	2.8	e3.0	e1.9	e1.4	.78
17	.57	.44	47	e1.6	26	4.8	3.0	2.5	e2.2	e2.1	e1.4	.59
18	.64	.37	19	e1.6	19	4.0	2.8	2.6	e1.8	e100	e1.5	.51
19	.60	.33	14	5.3	16	3.7	2.7	3.3	e1.7	e20	e2.2	1.8
20	.57	.29	11	5.2	13	4.1	2.7	2.3	e1.6	e30	e1.5	1.5
21	.53	.29	9.4	4.5	11	5.0	2.5	6.2	e1.7	e14	e1.3	.96
22	.55	.27	e8.0	4.1	9.6	4.3	2.2	9.9	e1.6	e13	e1.2	.81
23	.52	.27	e7.0	e3.9	8.5	3.8	2.1	5.3	e1.6	e7.0	e2.0	.80
24	.61	.27	e5.9	e3.8	7.6	3.4	2.8	4.8	e1.4	e4.0	e1.3	7.9
25	.62	13	e5.4	e3.6	29	3.0	2.1	3.3	e1.3	e2.9	e1.4	2.3
26	.56	5.9	e4.9	e3.5	13	2.8	1.9	2.7	e4.0	e25	e9.0	1.6
27	.46	3.3	e4.3	e3.4	11	2.6	1.8	6.3	e2.2	e9.0	e1.4	1.2
28	.43	2.1	e3.9	3.4	9.8	2.6	1.6	3.8	e1.8	e4.0	e.70	.94
29	.40	1.6	e3.6	4.5	---	2.7	1.4	2.7	e1.7	e6.0	.85	.70
30	.40	1.3	e3.3	8.7	---	3.2	1.3	2.2	e1.6	e4.0	.64	.53
31	.39	---	e3.0	7.9	---	3.8	---	2.2	---	e3.2	.49	---
TOTAL	19.35	58.24	337.37	98.0	333.2	211.7	106.8	159.04	82.2	277.26	69.18	71.82
MEAN	.62	1.94	10.9	3.16	11.9	6.83	3.56	5.13	2.74	8.94	2.23	2.39
MAX	1.9	13	161	8.7	46	25	9.4	24	6.5	100	9.0	13
MIN	.39	.24	.45	1.6	3.6	2.6	1.3	.94	1.3	.82	.49	.47
CFSM	.10	.32	1.81	.53	1.98	1.14	.59	.86	.46	1.49	.37	.40
IN.	.12	.36	2.09	.61	2.07	1.31	.66	.99	.51	1.72	.43	.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	1.25	2.18	9.21	11.8	14.5	23.3	6.49	6.19	10.6	5.07	2.74	1.27
MAX	2.79	3.80	21.8	19.4	27.5	77.1	12.6	10.5	26.3	11.0	4.31	2.48
(WY)	1997	1997	1997	1999	2000	1997	1998	1997	1997	1998	1998	2000
MIN	.57	.48	3.74	3.16	10.4	6.83	3.56	2.46	2.74	1.45	.15	.32
(WY)	1998	2000	1999	2001	1999	2001	2001	1999	2001	2000	1999	1999

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

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL TOTAL	2575.92		1824.16			
ANNUAL MEAN	7.04		5.00		7.86	
HIGHEST ANNUAL MEAN					14.8	1997
LOWEST ANNUAL MEAN					5.00	2001
HIGHEST DAILY MEAN	362	Feb 18	161	Dec 16	800	Mar 2 1997
LOWEST DAILY MEAN	.16	Jul 27	.24	Nov 4	.01	Aug 16 1999
ANNUAL SEVEN-DAY MINIMUM	.30	Nov 18	.30	Nov 18	.02	Sep 12 1999
MAXIMUM PEAK FLOW			358	Dec 16	3530	Mar 1 1997
MAXIMUM PEAK STAGE			3.50	Dec 16	5.93	Mar 1 1997
ANNUAL RUNOFF (CFSM)	1.17		.83		1.31	
ANNUAL RUNOFF (INCHES)	15.97		11.31		17.79	
10 PERCENT EXCEEDS	12		9.5		16	
50 PERCENT EXCEEDS	2.2		2.6		3.0	
90 PERCENT EXCEEDS	.51		.56		.45	

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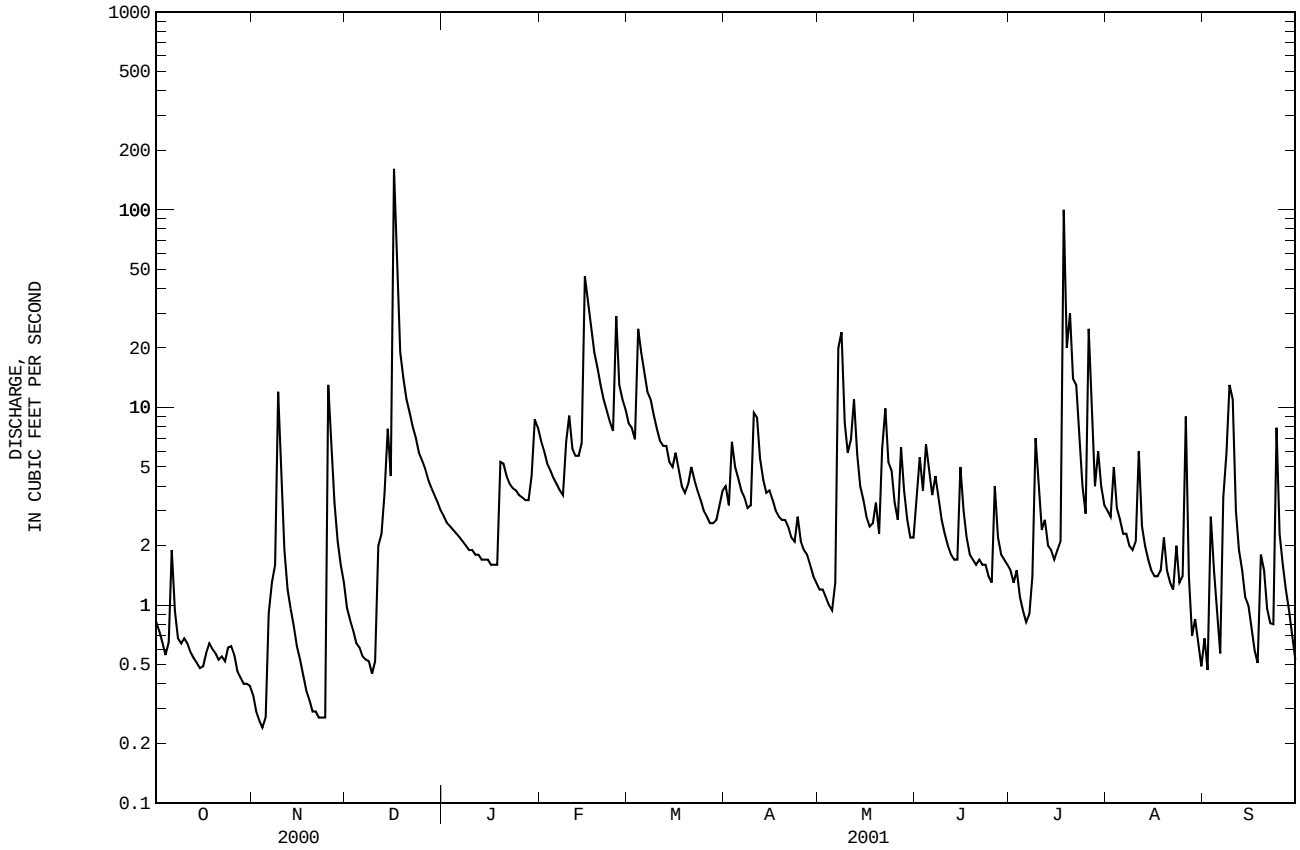


03292475 GOOSE CREEK AT HIGHWAY 42 AT GLENVIEW ACRES, KY

LOCATION.--Lat 38°18'12", long 85°37'41", Jefferson County, Hydrologic Unit 05140101, on downstream side of culvert on U.S. Highway 42, 0.5 mi northeast of Glenview Acres, 1.7 mi above Little Goose Creek, and at mile 2.1.

DRAINAGE AREA.--10.1 mi^2.

PERIOD OF RECORD.--November 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 430.06 ft above NGVD of 1929.

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

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	0830	*525	*5.55	No other peak above base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	e1.0	1.3	e1.1	6.2	12	4.1	3.3	8.6	e1.3	e2.2	1.2
2	4.4	e.96	1.1	e.98	e5.0	11	3.2	3.2	23	e1.2	e2.0	1.1
3	3.5	e.90	.92	e.92	e4.0	8.8	9.4	3.1	12	e1.5	e6.0	6.7
4	2.6	e.86	.83	e.88	e3.5	53	6.3	2.9	22	e1.3	18	6.5
5	2.8	e1.8	.74	e.84	e3.0	47	4.7	2.7	16	e1.1	4.8	2.1
6	5.7	e3.1	.65	e.80	e2.7	31	3.9	3.8	9.5	e1.0	3.0	1.4
7	3.4	e3.9	.61	e.76	2.4	23	3.4	31	12	e1.2	2.2	5.6
8	2.6	11	.61	e.73	2.1	18	3.0	74	8.6	e2.0	1.9	29
9	2.1	27	.63	e.70	6.5	14	2.8	29	5.9	e3.0	2.0	19
10	1.8	11	.62	e.68	12	10	22	18	4.4	e2.3	1.8	52
11	1.5	3.3	3.0	e.66	5.6	8.3	17	14	3.6	e2.0	15	12
12	1.2	2.0	3.7	e.64	4.5	7.3	e10	39	3.0	e2.3	15	6.2
13	1.1	1.6	4.1	e.63	4.2	7.5	e9.0	17	2.4	e1.9	4.4	4.0
14	e1.3	1.2	18	e.62	5.4	5.6	9.4	10	1.9	e1.6	2.9	2.8
15	e1.4	.92	6.9	e.61	75	5.1	10	7.9	5.2	e1.4	2.2	2.4
16	e1.7	.84	188	e.61	79	6.9	9.0	6.1	8.7	e1.4	1.7	2.0
17	e1.8	.72	75	e.60	63	5.2	7.6	5.0	3.3	e1.6	1.5	1.6
18	e2.0	.60	34	e.60	43	4.0	7.1	5.0	2.2	e100	1.6	1.6
19	e1.8	.59	21	3.4	32	3.5	6.7	8.2	1.7	e23	3.7	4.0
20	e1.7	.71	14	3.9	25	3.7	7.1	5.1	4.3	e30	2.0	8.3
21	e1.6	.67	11	3.0	18	5.7	6.6	20	2.1	e13	1.4	6.4
22	e1.9	.64	7.2	2.5	14	4.5	6.0	36	e1.9	e15	1.1	7.9
23	e1.7	.60	6.1	e2.3	11	3.6	5.5	16	e1.8	e8.0	.95	11
24	e1.9	.57	4.3	e2.2	9.5	3.3	6.6	13	e1.7	e5.0	.91	38
25	e1.9	25	2.7	e2.1	62	2.8	5.2	8.7	e1.5	e3.7	1.2	9.9
26	e1.7	12	e2.3	e2.0	28	2.5	4.7	6.6	e2.6	e30	1.7	5.4
27	e1.6	5.3	e2.0	e1.9	21	2.3	4.3	22	e1.7	e7.0	2.8	3.7
28	e1.4	3.1	e1.8	1.9	16	2.2	4.0	11	e1.5	e4.0	1.4	2.8
29	e1.3	2.2	e1.5	2.9	---	2.2	3.6	7.1	e1.5	e3.9	3.3	2.5
30	e1.2	1.7	e1.3	11	---	2.6	3.4	4.8	e1.4	e3.1	1.5	2.6
31	e1.1	---	e1.2	9.3	---	3.6	---	4.9	---	e2.6	1.2	---
TOTAL	67.2	125.78	417.11	61.76	563.6	320.2	205.6	438.4	176.0	276.4	111.36	259.7
MEAN	2.17	4.19	13.5	1.99	20.1	10.3	6.85	14.1	5.87	8.92	3.59	8.66
MAX	5.7	27	188	11	79	53	22	74	23	100	18	52
MIN	1.1	.57	.61	.60	2.1	2.2	2.8	2.7	1.4	1.0	.91	1.1
CFSM	.21	.42	1.33	.20	1.99	1.02	.68	1.40	.58	.88	.36	.86
IN.	.25	.46	1.54	.23	2.08	1.18	.76	1.61	.65	1.02	.41	.96

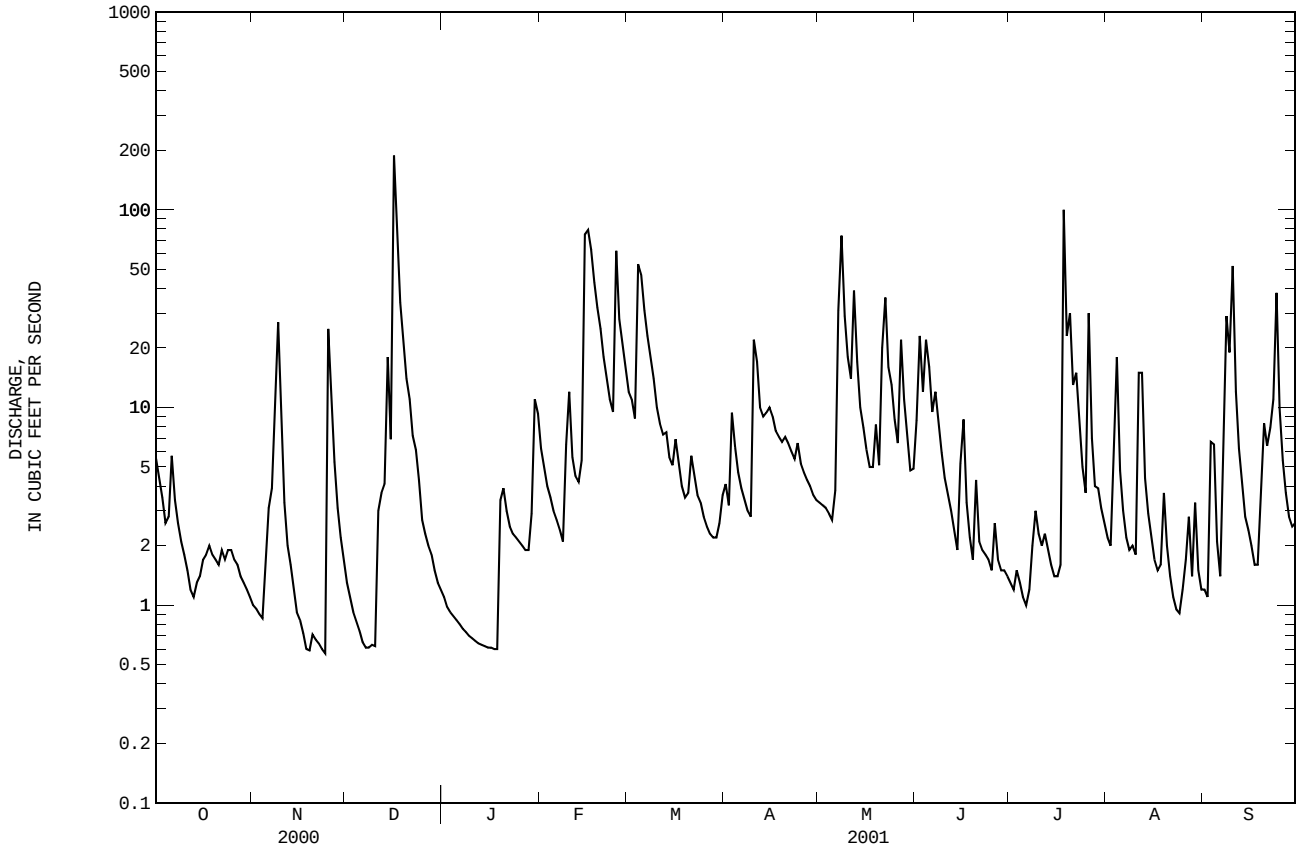
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	2.17	9.98	13.9	11.0	31.0	12.9	9.33	9.62	5.55	6.04	4.59	14.0
MAX	2.17	15.8	14.3	19.9	41.5	15.6	11.8	14.1	5.87	8.92	5.58	19.4
(WY)	2001	2000	2000	2000	2000	2000	2000	2001	2001	2001	2000	2000
MIN	2.17	4.19	13.5	1.99	20.1	10.3	6.85	5.09	5.23	3.15	3.59	8.66
(WY)	2001	2001	2001	2001	2001	2001	2001	2000	2000	2000	2001	2001

03292475 GOOSE CREEK AT HIGHWAY 42 AT GLENVIEW ACRES, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	4437.09		3023.11			
ANNUAL MEAN	12.1		8.28		8.28	
HIGHEST ANNUAL MEAN					8.28	2001
LOWEST ANNUAL MEAN					8.28	2001
HIGHEST DAILY MEAN	560	Feb 18	188	Dec 16	560	Feb 18 2000
LOWEST DAILY MEAN	.57	Nov 24	.57	Nov 24	.57	Nov 24 2000
ANNUAL SEVEN-DAY MINIMUM	.63	Nov 18	.62	Jan 12	.62	Jan 12 2001
MAXIMUM PEAK FLOW			525	Dec 16	1710	Feb 18 2000
MAXIMUM PEAK STAGE			5.55	Dec 16	7.83	Feb 18 2000
ANNUAL RUNOFF (CFSM)	1.20		.82		.82	
ANNUAL RUNOFF (INCHES)	16.34		11.13		11.14	
10 PERCENT EXCEEDS	21		19		22	
50 PERCENT EXCEEDS	4.2		3.3		4.6	
90 PERCENT EXCEEDS	1.5		.92		1.4	

e Estimated



03292480 LITTLE GOOSE CREEK NEAR HARRODS CREEK, KY

LOCATION.--Lat 38°18'45", long 85°37'33", Jefferson County, Hydrologic Unit 05140101, at downstream side of culvert on U.S. Highway 42, 1.1 mi south of Harrods Creek, and at mile 2.0.

DRAINAGE AREA.--5.8 mi^2.

PERIOD OF RECORD.--December 1998 to current year.

GAGE.--Water-stage recorder.

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

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	0830	*441	*6.38	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	e.31	1.0	.84	5.9	4.4	2.4	.48	9.3	e2.2	e8.4	1.7
2	1.4	e.29	.88	.76	3.9	4.5	1.5	.40	22	e2.0	e6.3	1.4
3	1.2	e.27	.76	.74	2.7	3.1	8.1	.34	16	e3.3	e5.1	16
4	.96	e.25	.69	.79	2.4	37	3.4	.36	23	e3.0	21	17
5	.81	1.3	.65	.81	2.1	31	2.1	.39	14	e2.7	5.9	3.5
6	4.6	4.4	.56	.95	1.8	15	1.7	1.4	6.9	e3.5	3.6	2.1
7	.86	5.1	.76	.92	1.5	9.0	1.5	45	8.0	e4.5	2.8	2.4
8	.59	4.6	.56	.90	1.4	6.5	1.3	67	4.3	e6.0	2.2	32
9	.45	31	.46	.80	7.7	4.7	1.2	34	2.7	e18	2.1	23
10	.49	13	.62	.72	15	3.4	11	16	2.0	e12	7.2	57
11	.59	3.0	5.4	.70	5.0	2.7	e14	16	1.7	e8.6	21	16
12	.56	1.7	7.3	.71	3.4	2.3	e3.0	42	1.6	e6.4	14	8.1
13	.53	1.4	4.5	.68	2.7	2.6	e2.1	23	1.4	e4.7	4.3	4.4
14	e.50	1.1	22	.76	5.1	1.8	1.5	9.0	1.3	e3.7	2.6	3.0
15	e.46	.85	6.9	.98	56	1.8	1.6	5.8	7.0	e3.1	2.0	2.3
16	e.47	.71	177	.88	55	3.6	1.3	4.0	6.1	e3.2	1.7	2.0
17	e.54	.59	59	.77	40	2.2	1.1	3.0	2.1	e3.3	1.6	1.8
18	e.62	.47	30	.75	22	1.7	.93	3.5	1.6	e170	2.4	1.7
19	e.59	.41	13	4.5	13	1.5	.87	16	1.4	e72	5.5	5.9
20	e.57	.40	8.4	4.1	9.1	2.0	1.2	5.1	11	e44	2.1	4.2
21	e.54	.34	5.9	2.7	6.2	3.6	.98	24	e3.5	e27	1.6	2.1
22	e.56	.32	3.7	2.0	4.7	2.0	.79	39	e1.5	e19	1.3	1.8
23	e.52	.33	2.9	1.8	3.5	1.6	1.7	16	e1.7	e14	1.2	1.6
24	e.56	.31	2.2	1.8	2.7	1.4	1.7	14	e1.8	e10	1.3	34
25	e.60	31	1.7	1.5	45	1.2	.86	7.3	e1.9	e7.9	1.1	7.2
26	e.53	13	1.6	1.4	19	1.0	.71	4.6	e2.1	e35	4.1	3.0
27	e.48	4.4	1.5	1.5	8.7	.94	.76	26	e2.2	e130	7.7	1.9
28	e.43	2.4	1.3	1.3	5.9	.89	.76	9.1	e2.3	e36	2.2	1.5
29	e.39	1.7	1.1	2.8	---	.87	.65	4.8	e2.5	e40	6.0	1.3
30	e.36	1.3	1.0	13	---	1.2	.61	3.0	e2.6	e18	2.2	1.1
31	e.33	---	.92	11	---	1.9	---	3.2	---	e12	1.7	---
TOTAL	23.79	126.25	364.26	63.86	351.4	157.40	71.32	443.77	165.5	725.1	152.2	261.0
MEAN	.77	4.21	11.8	2.06	12.6	5.08	2.38	14.3	5.52	23.4	4.91	8.70
MAX	4.6	31	177	13	56	37	14	67	23	170	21	57
MIN	.33	.25	.46	.68	1.4	.87	.61	.34	1.3	2.0	1.1	1.1
CFSM	.13	.73	2.03	.36	2.16	.88	.41	2.47	.95	4.03	.85	1.50
IN.	.15	.81	2.34	.41	2.25	1.01	.46	2.85	1.06	4.65	.98	1.67

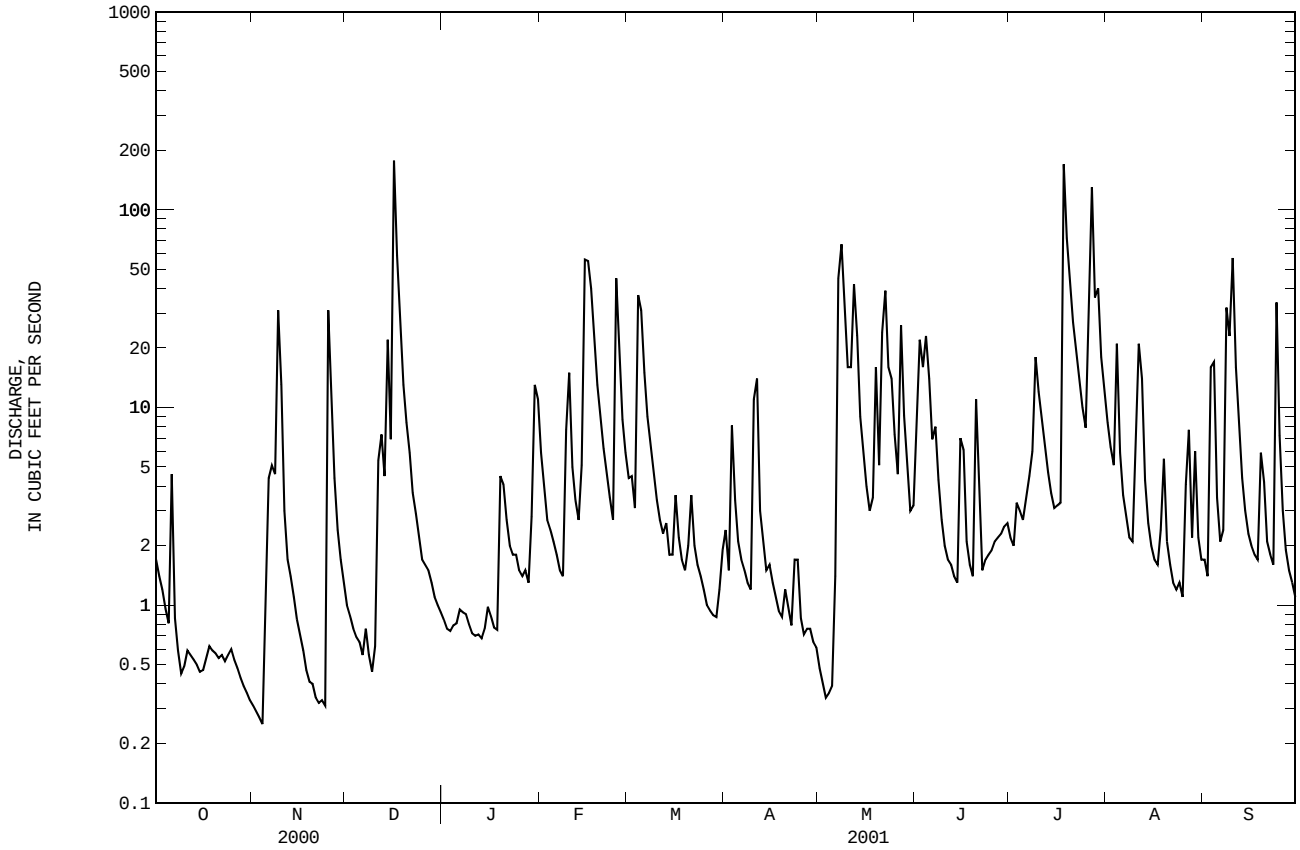
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	2.52	3.63	16.3	16.0	18.4	11.8	6.06	7.18	7.84	9.21	3.36	5.26
MAX	4.27	4.21	27.4	32.7	26.6	17.7	10.7	14.3	12.2	23.4	4.91	8.70
(WY)	2000	2001	2000	1999	2000	1999	2000	2001	1999	2001	2001	2001
MIN	.77	3.06	9.84	2.06	12.6	5.08	2.38	3.49	5.52	1.77	.41	.75
(WY)	2001	2000	1999	2001	2001	2001	2001	2000	2001	1999	1999	1999

03292480 LITTLE GOOSE CREEK NEAR HARRODS CREEK, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	3109.93		2905.85			
ANNUAL MEAN	8.50		7.96		8.99	
HIGHEST ANNUAL MEAN					10.0	2000
LOWEST ANNUAL MEAN					7.96	2001
HIGHEST DAILY MEAN	322	Feb 18	177	Dec 16	322	Feb 18 2000
LOWEST DAILY MEAN	.14	Aug 17	.25	Nov 4	.00	Aug 31 1999
ANNUAL SEVEN-DAY MINIMUM	.31	Oct 29	.31	Oct 29	.00	Aug 31 1999
MAXIMUM PEAK FLOW			441	Dec 16	694	Feb 18 2000
MAXIMUM PEAK STAGE			6.38	Dec 16	7.54	Feb 18 2000
ANNUAL RUNOFF (CFSM)	1.47		1.37		1.55	
ANNUAL RUNOFF (INCHES)	19.95		18.64		21.07	
10 PERCENT EXCEEDS	20		21		25	
50 PERCENT EXCEEDS	2.1		2.2		2.3	
90 PERCENT EXCEEDS	.49		.56		.51	

e Estimated



03292500 SOUTH FORK BEARGRASS CREEK AT LOUISVILLE, KY

LOCATION.--Lat 38°12'41", long 85°42'09", Jefferson County, Hydrologic Unit 05140101, on right bank, 10 ft downstream of Trevilian Way Bridge at Louisville, 4.9 mi upstream from Middle Fork Beargrass Creek, and at mile 6.5.

DRAINAGE AREA.--17.2 mi^2.

PERIOD OF RECORD.--October 1939 to September 1940, August 1944 to September 1953, October 1954 to September 1983 (High water records only, October 1962 to June 1970), and June 1988 to current year. Monthly discharge only for October to December 1939, published in WSP 1305.

REVISED RECORDS.--WSP 1705: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 445.60 ft, Louisville city datum. Prior to Oct. 29, 1953, at datum 5.00 ft higher. Oct. 29, 1953, to June 24, 1970, at datum 3.00 ft higher. Prior to April 8, 1994, gage located 125 ft upstream at same datum.

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

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 19, 1943 reached a stage of 18.1 ft, present datum, from information furnished by U.S. Army Corps of Engineers.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	0935	*1,280	*11.47	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	e2.4	2.2	4.6	10	e16	24	e4.3	16	e2.7	e4.2	7.7
2	2.9	e1.8	2.0	4.4	8.8	e12	15	e4.1	7.8	e2.6	e3.9	2.5
3	2.7	e1.7	2.1	4.1	8.0	11	36	e4.0	6.3	e3.5	e39	5.8
4	2.6	e2.0	2.1	4.0	7.9	145	19	e3.9	49	e3.7	e26	5.6
5	13	20	1.7	4.5	7.8	49	16	e3.7	10	e2.4	e6.5	2.2
6	31	26	1.4	4.6	7.0	27	e7.2	e3.6	11	e2.2	e5.1	1.5
7	4.5	8.5	1.2	4.3	6.6	20	e6.5	182	32	e2.3	e4.3	29
8	3.0	7.5	1.3	4.1	6.7	17	e6.0	143	e10	e7.0	e3.8	86
9	2.4	80	1.5	3.9	39	14	e5.8	19	e8.7	e22	e3.5	83
10	1.9	14	2.5	3.5	27	12	e6.7	13	e6.7	e6.8	e3.4	81
11	1.8	5.0	15	3.4	12	12	e6.0	55	e5.4	e3.2	e27	7.0
12	1.8	3.0	6.7	3.3	11	10	e5.1	66	e4.3	e3.0	e11	4.0
13	e2.6	3.3	22	3.3	10	15	e4.6	14	e3.5	e2.6	e4.7	2.7
14	e1.7	2.5	38	4.1	20	9.7	e4.5	10	e3.2	e2.3	e3.7	2.4
15	e1.8	1.8	9.0	4.1	185	11	e6.4	8.4	e23	e2.1	e3.1	2.1
16	e2.0	1.9	524	4.7	140	18	e5.4	7.7	e18	e2.1	e2.9	2.1
17	e1.8	2.0	108	6.2	76	10	e4.4	6.7	e6.4	e2.4	4.3	2.0
18	e2.1	1.7	38	5.9	40	8.0	e4.5	7.3	e4.4	e19	5.4	2.3
19	e2.0	1.7	23	28	28	7.4	e4.2	21	e3.4	e5.0	9.5	12
20	e1.7	1.9	16	16	e22	13	e5.0	7.1	e3.0	e360	3.1	4.3
21	e1.6	1.5	13	11	e18	14	e4.8	44	e2.7	e31	2.3	2.0
22	e1.7	1.5	10	8.5	e15	10	e4.5	60	e23	e42	2.2	1.6
23	e1.9	1.7	8.7	8.0	e12	e7.2	e7.0	14	e8.8	e19	5.9	3.7
24	e1.7	1.9	7.8	8.1	e10	e6.2	e9.8	17	e4.4	e8.8	5.4	26
25	e1.8	89	6.7	7.0	e95	e6.0	e4.6	10	e3.1	e6.1	2.5	3.8
26	e2.2	13	6.3	6.8	e54	e5.7	e4.9	8.8	e2.9	e59	52	2.5
27	e2.5	6.3	6.1	7.7	e34	e5.4	e4.7	41	e5.4	e12	15	2.4
28	e2.3	4.1	5.6	7.3	e23	e5.3	e4.5	11	e3.6	e11	3.6	1.6
29	e2.2	2.9	5.7	19	---	e5.2	e4.4	8.1	e17	e14	2.9	1.8
30	e2.2	2.5	5.1	27	---	e8.5	e4.6	6.9	e7.3	e7.4	2.5	2.3
31	e2.3	---	4.8	14	---	18	---	6.7	---	e4.5	4.5	---
TOTAL	108.7	313.1	897.5	245.4	933.8	528.6	246.1	811.3	310.3	671.7	273.2	392.9
MEAN	3.51	10.4	29.0	7.92	33.3	17.1	8.20	26.2	10.3	21.7	8.81	13.1
MAX	31	89	524	28	185	145	36	182	49	360	52	86
MIN	1.6	1.5	1.2	3.3	6.6	5.2	4.2	3.6	2.7	2.1	2.2	1.5
CFSM	.20	.61	1.68	.46	1.94	.99	.48	1.52	.60	1.26	.51	.76
IN.	.24	.68	1.94	.53	2.02	1.14	.53	1.75	.67	1.45	.59	.85

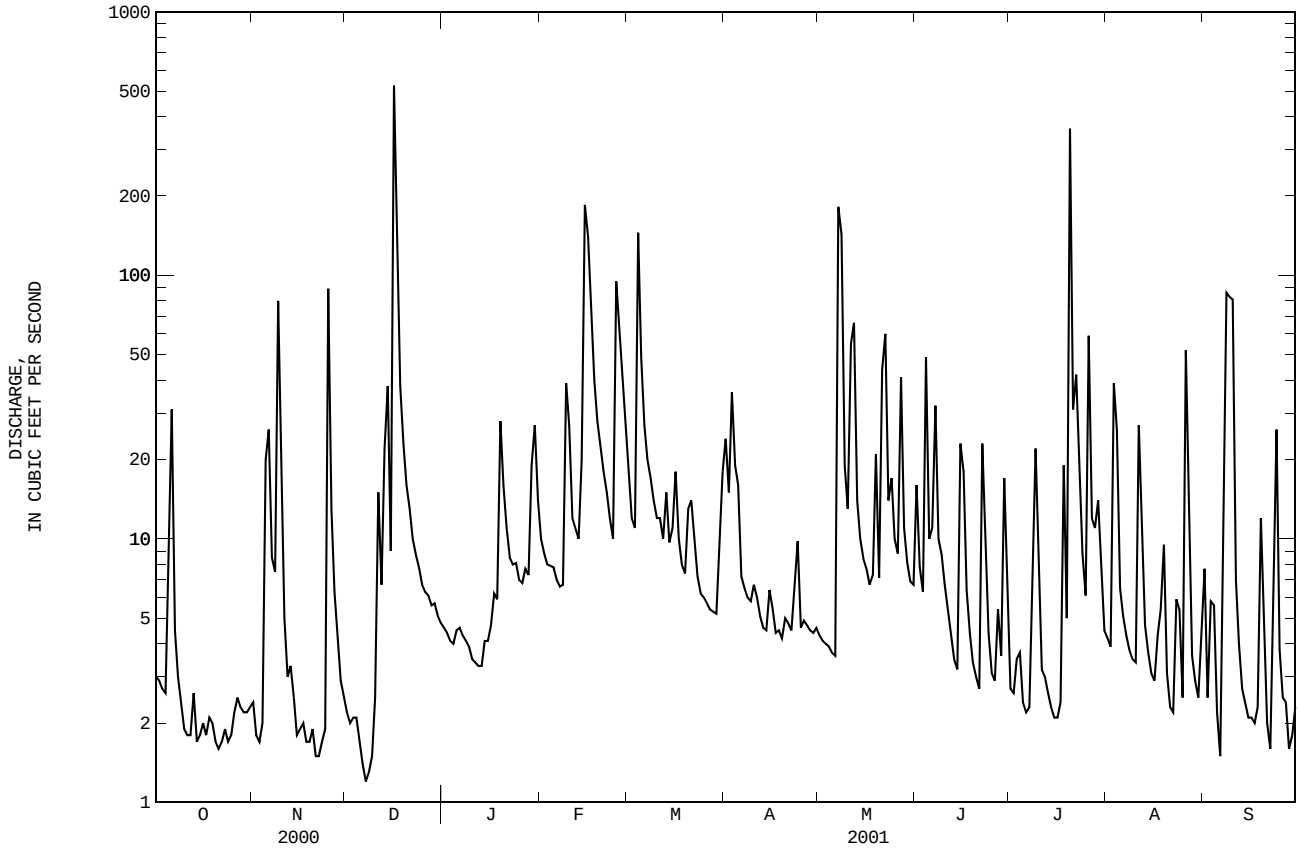
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	7.42	13.4	23.2	31.7	39.6	43.7	31.2	27.9	20.0	15.7	10.2	7.83
MAX	46.7	53.9	73.6	125	107	201	95.2	103	78.3	126	54.7	86.3
(WY)	1978	1974	1979	1950	1989	1997	1948	1961	1950	1973	1974	1979
MIN	.30	.84	1.32	.71	8.52	6.41	3.13	5.51	1.11	.89	.23	.000
(WY)	1953	1953	1977	1940	1953	1983	1976	1962	1959	1956	1952	1953

03292500 SOUTH FORK BEARGRASS CREEK AT LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL TOTAL	8815.5		5732.6			
ANNUAL MEAN	24.1		15.7		22.8	
HIGHEST ANNUAL MEAN					41.6	1997
LOWEST ANNUAL MEAN					9.35	1959
HIGHEST DAILY MEAN	1060	Feb 18	524	Dec 16	1960	Mar 2 1997
LOWEST DAILY MEAN	1.2	Dec 7	1.2	Dec 7	.00	Sep 4 1940
ANNUAL SEVEN-DAY MINIMUM	1.6	Dec 3	1.6	Dec 3	.00	Sep 4 1940
MAXIMUM PEAK FLOW			1280	Dec 16	5290	Mar 2 1997
MAXIMUM PEAK STAGE			11.47	Dec 16	17.81	Mar 2 1997
INSTANTANEOUS LOW FLOW					.00	Sep 4 1940
ANNUAL RUNOFF (CFSM)	1.40		.91		1.32	
ANNUAL RUNOFF (INCHES)	19.07		12.40		17.98	
10 PERCENT EXCEEDS	43		30		48	
50 PERCENT EXCEEDS	6.5		6.0		7.4	
90 PERCENT EXCEEDS	2.0		2.0		1.0	

e Estimated



03292550 SOUTH FORK BEARGRASS CREEK AT WINTER AVENUE AT LOUISVILLE, KY

LOCATION.--Lat 38°14'04", long 85°45'50", Jefferson County, Hydrologic Unit 05140101, on left bank of floodwall, 150 ft. upstream of Winter Avenue, at Louisville, 1.4 mi above Middle Fork Beargrass Creek, and at mile 3.3

DRAINAGE AREA.--22.6 mi^2.

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Water-stage recorder.

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

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	1040	2,180	7.78	Jul 20	1710	*2,550	8.08

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	4.3	5.4	6.3	13	17	21	6.1	e22	3.9	5.7	12
2	4.5	3.3	5.3	6.2	11	18	12	5.9	e10	3.7	5.3	5.3
3	3.8	3.3	5.4	5.9	9.6	14	32	5.8	e8.4	4.8	61	6.6
4	3.6	3.6	5.7	6.0	9.3	148	21	5.7	e64	5.3	38	11
5	8.4	3.1	5.1	6.4	9.4	48	22	5.3	e14	3.5	9.1	4.6
6	33	e22	4.7	6.8	8.1	30	11	5.1	e16	3.2	7.1	3.5
7	6.5	14	4.4	6.3	7.1	24	9.5	188	e42	3.2	6.0	35
8	4.8	12	4.2	6.0	6.6	21	8.4	e191	e17	5.5	5.7	118
9	4.1	77	4.3	5.6	32	18	8.3	e29	e13	31	5.3	114
10	3.7	22	5.5	5.3	33	16	9.7	e15	e9.5	7.0	4.9	129
11	3.4	8.7	23	5.3	13	14	8.7	e74	e7.5	4.6	43	13
12	3.3	5.7	16	5.2	11	13	7.4	e89	e6.1	4.3	19	7.5
13	3.2	5.6	24	5.1	10	18	6.7	e20	e4.8	3.7	6.6	5.3
14	3.0	5.0	51	5.6	18	12	6.4	e14	e4.2	3.3	5.0	4.2
15	2.9	4.2	18	5.7	202	13	9.2	e12	e27	3.1	4.3	3.6
16	3.1	4.0	806	5.2	135	21	7.3	e10	e24	3.0	4.1	3.2
17	3.1	3.8	132	5.1	70	13	6.4	e8.9	e8.8	3.4	4.2	3.0
18	3.7	3.6	43	5.3	38	10	6.4	e9.6	e6.4	28	5.2	2.8
19	3.3	3.4	27	29	30	9.4	6.0	e29	e4.4	6.3	15	15
20	2.9	3.6	21	20	e26	14	7.2	e9.4	e3.8	483	5.3	8.0
21	2.8	3.2	18	14	e22	19	7.1	e61	e3.2	42	4.2	3.7
22	3.0	3.2	15	10	e19	12	6.6	e78	e30	67	3.8	2.9
23	3.2	3.2	12	9.5	e16	9.7	8.7	e20	4.5	32	8.4	8.7
24	3.0	3.2	11	9.7	e14	8.9	14	e23	6.4	12	9.0	35
25	3.2	96	9.1	8.6	e110	8.4	6.8	e14	4.4	8.0	4.6	6.0
26	4.0	21	8.5	7.7	e79	8.4	7.0	e12	4.1	92	68	3.8
27	4.6	12	8.2	7.9	e41	7.7	7.1	e55	7.6	16	28	3.4
28	4.0	9.0	7.6	6.8	e26	7.4	6.4	e15	4.7	15	7.1	2.9
29	3.9	6.8	7.8	16	---	8.2	6.2	e11	27	18	5.1	2.7
30	3.9	5.6	7.0	30	---	13	6.7	e9.0	8.8	9.4	4.4	2.7
31	4.1	---	6.7	19	---	17	---	e8.7	---	6.5	6.7	---
TOTAL	148.9	375.4	1321.9	291.5	1019.1	611.1	303.2	1039.5	413.6	931.7	409.1	576.4
MEAN	4.80	12.5	42.6	9.40	36.4	19.7	10.1	33.5	13.8	30.1	13.2	19.2
MAX	33	96	806	30	202	148	32	191	64	483	68	129
MIN	2.8	3.1	4.2	5.1	6.6	7.4	6.0	5.1	3.2	3.0	3.8	2.7

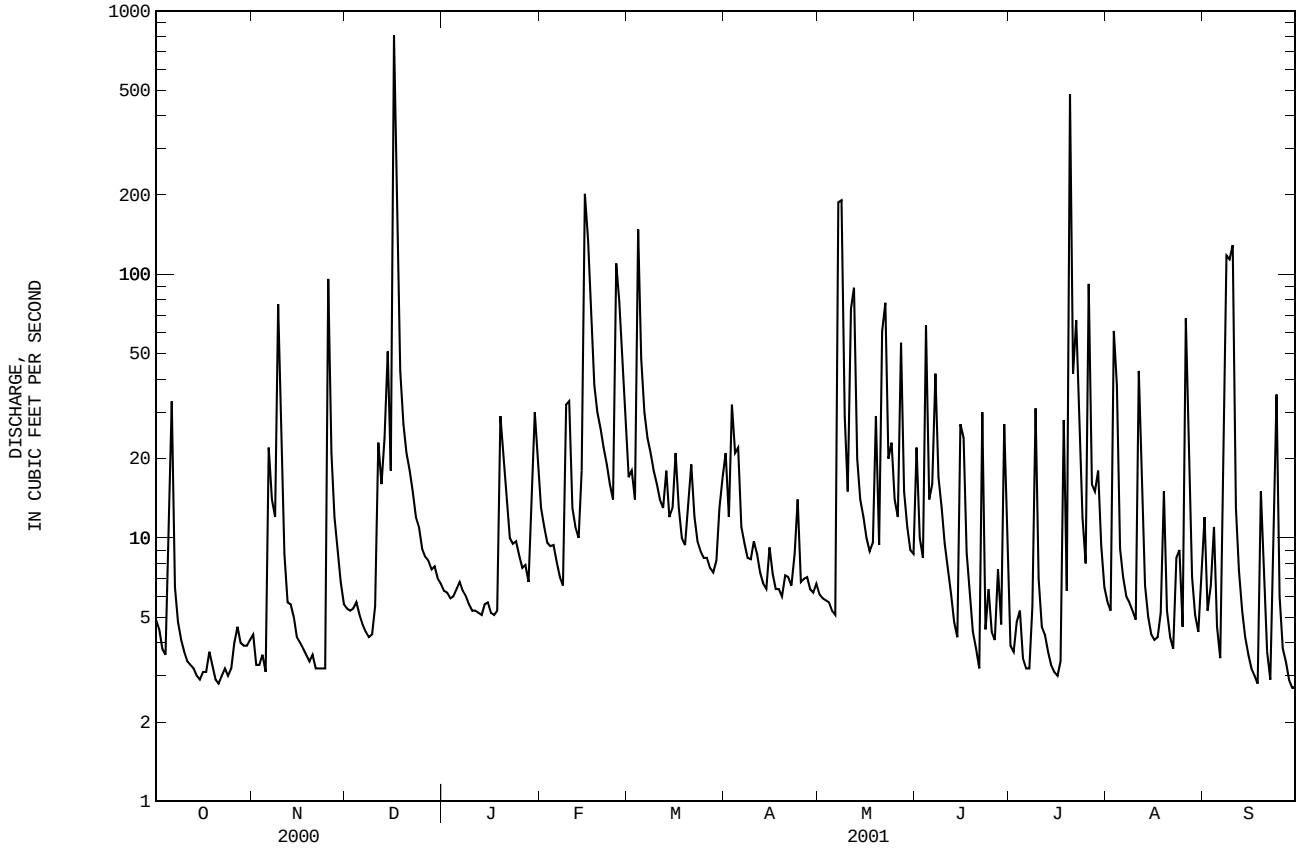
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	8.62	8.86	29.0	47.8	62.1	27.1	21.6	22.7	24.9	15.9	11.9	16.5
MAX	11.5	12.5	42.6	73.5	125	31.6	32.9	33.5	41.6	30.1	19.6	26.9
(WY)	1999	2001	2001	2000	2000	2000	2000	2001	1999	2001	2000	2000
MIN	4.80	4.05	17.1	9.40	22.9	19.7	10.1	16.1	13.8	4.55	2.78	3.29
(WY)	2001	2000	1999	2001	1999	2001	2001	1999	2001	1999	1999	1999

03292550 SOUTH FORK BEARGRASS CREEK AT WINTER AVENUE AT LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001	
ANNUAL TOTAL	12679.50		7441.4			
ANNUAL MEAN	34.6		20.4		24.5	
HIGHEST ANNUAL MEAN					33.0	2000
LOWEST ANNUAL MEAN					20.2	1999
HIGHEST DAILY MEAN	2230	Feb 18	806	Dec 16	2230	Feb 18 2000
LOWEST DAILY MEAN	1.8	Jan 1	2.7	Sep 29	1.3	Oct 16 1999
ANNUAL SEVEN-DAY MINIMUM	2.7	Jul 21	3.1	Oct 19	1.3	Nov 6 1999
MAXIMUM PEAK FLOW			2550	Jul 20	8470	Feb 18 2000
MAXIMUM PEAK STAGE			8.08	Jul 20	10.89	Feb 18 2000
10 PERCENT EXCEEDS	56		35		44	
50 PERCENT EXCEEDS	7.9		8.0		7.3	
90 PERCENT EXCEEDS	3.1		3.4		2.4	

e Estimated



03293000 MIDDLE FORK BEARGRASS CREEK AT LOUISVILLE, KY

LOCATION.--Lat 38°14'14", long 85°39'53", Jefferson County, Hydrologic Unit 05140101, on right bank 75 ft downstream from bridge on Old Cannons Lane at Louisville, 1.7 mi downstream from Weicher Creek, 5.4 mi upstream from mouth and 7.0 mi upstream from Ohio River.

DRAINAGE AREA.--18.9 mi^2, of which about 0.5 mi^2 does not contribute directly to surface runoff.

PERIOD OF RECORD.--August 1944 to current year.

REVISED RECORDS.--WSP 1625: 1945(M), 1948(M), 1950(P), 1951-52(M), 1954-55(M), 1957(M), drainage area. WRD KY 72-1: 1950(M).

GAGE.--Water-stage recorder. Datum of gage is 476.70 ft, Louisville city datum. See WDR KY-90-1 for history of changes prior to July 26, 1971.

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

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1943 reached a stage of 9.1 ft, present site and datum, from information by local residents.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	1105	*1,240	*5.93	Jul 18	unknown	>1900	>6.85
May 8	0005	606	4.45				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	4.4	4.9	4.1	15	e20	15	3.0	15	e6.8	e15	10
2	5.0	2.6	4.2	3.8	12	16	9.6	3.1	12	e6.2	e11	1.8
3	4.3	2.3	3.9	3.5	11	13	33	2.5	8.0	e6.8	e9.0	20
4	3.6	2.3	3.6	3.5	10	113	16	2.3	22	e6.0	23	9.1
5	5.5	2.2	3.4	3.7	9.9	61	12	1.7	10	e5.6	6.3	2.7
6	30	9.6	3.2	4.1	8.8	37	9.8	1.9	13	e7.4	4.0	1.6
7	6.6	11	2.8	4.2	7.9	28	8.6	133	39	e10	3.0	25
8	4.3	10	e2.6	4.4	7.3	22	7.8	152	14	e14	2.4	57
9	3.4	75	e2.4	3.9	29	18	7.0	28	9.3	e37	2.0	55
10	3.0	29	e3.4	3.6	33	15	9.6	15	7.1	e26	5.9	69
11	2.8	10	e7.0	3.4	15	13	22	37	5.8	e18	49	13
12	2.5	6.7	e9.0	3.4	12	12	9.0	61	4.8	e10	20	7.4
13	2.3	5.7	e16	3.3	11	14	7.1	17	3.8	e8.0	6.7	5.0
14	2.1	5.4	47	3.9	18	11	6.2	11	3.3	e6.6	4.0	3.4
15	2.1	5.5	17	4.4	153	10	7.6	8.5	24	e6.0	2.8	2.5
16	2.4	3.5	574	4.3	127	17	6.3	6.5	19	e5.4	2.1	2.0
17	2.9	2.9	131	3.7	81	11	5.1	5.3	7.0	e5.0	1.8	1.6
18	3.2	2.5	57	3.7	48	9.0	4.6	6.3	4.8	e1900	4.0	1.7
19	2.9	2.4	37	24	35	8.4	4.3	14	3.5	e260	9.6	15
20	2.9	2.3	24	17	e29	11	5.7	6.1	3.1	e90	2.9	7.8
21	2.9	2.3	18	13	e24	15	5.4	36	2.8	e54	1.8	3.2
22	2.9	2.2	13	10	e21	11	4.3	51	e25	e40	1.3	2.2
23	2.8	2.2	11	9.4	e19	8.9	4.2	17	e21	e28	1.2	4.1
24	2.7	2.2	9.3	9.0	e17	7.8	9.4	18	e17	e20	1.2	43
25	3.6	77	7.8	8.1	e100	6.9	5.1	9.8	e14	e16	.95	7.9
26	3.4	26	6.9	7.7	e54	6.4	4.4	7.5	e12	e60	7.8	4.6
27	3.1	13	6.4	8.2	e35	6.4	4.0	35	e10	e270	6.7	3.3
28	2.9	9.2	e5.6	7.0	e27	5.7	3.4	11	e9.0	e120	2.8	2.2
29	2.8	7.1	e5.2	14	---	5.6	3.2	7.3	e8.2	e60	1.5	1.7
30	2.8	6.1	e4.8	32	---	8.2	2.7	5.5	e7.6	e40	1.2	1.5
31	3.3	---	4.4	21	---	12	---	5.0	---	e23	1.6	---
TOTAL	131.5	342.6	1045.8	249.3	969.9	553.3	252.4	718.3	355.1	3165.8	212.55	384.3
MEAN	4.24	11.4	33.7	8.04	34.6	17.8	8.41	23.2	11.8	102	6.86	12.8
MAX	30	77	574	32	153	113	33	152	39	1900	49	69
MIN	2.1	2.2	2.4	3.3	7.3	5.6	2.7	1.7	2.8	5.0	.95	1.5
CFSM	.23	.62	1.83	.44	1.88	.97	.46	1.26	.64	5.55	.37	.70
IN.	.27	.69	2.11	.50	1.96	1.12	.51	1.45	.72	6.40	.43	.78

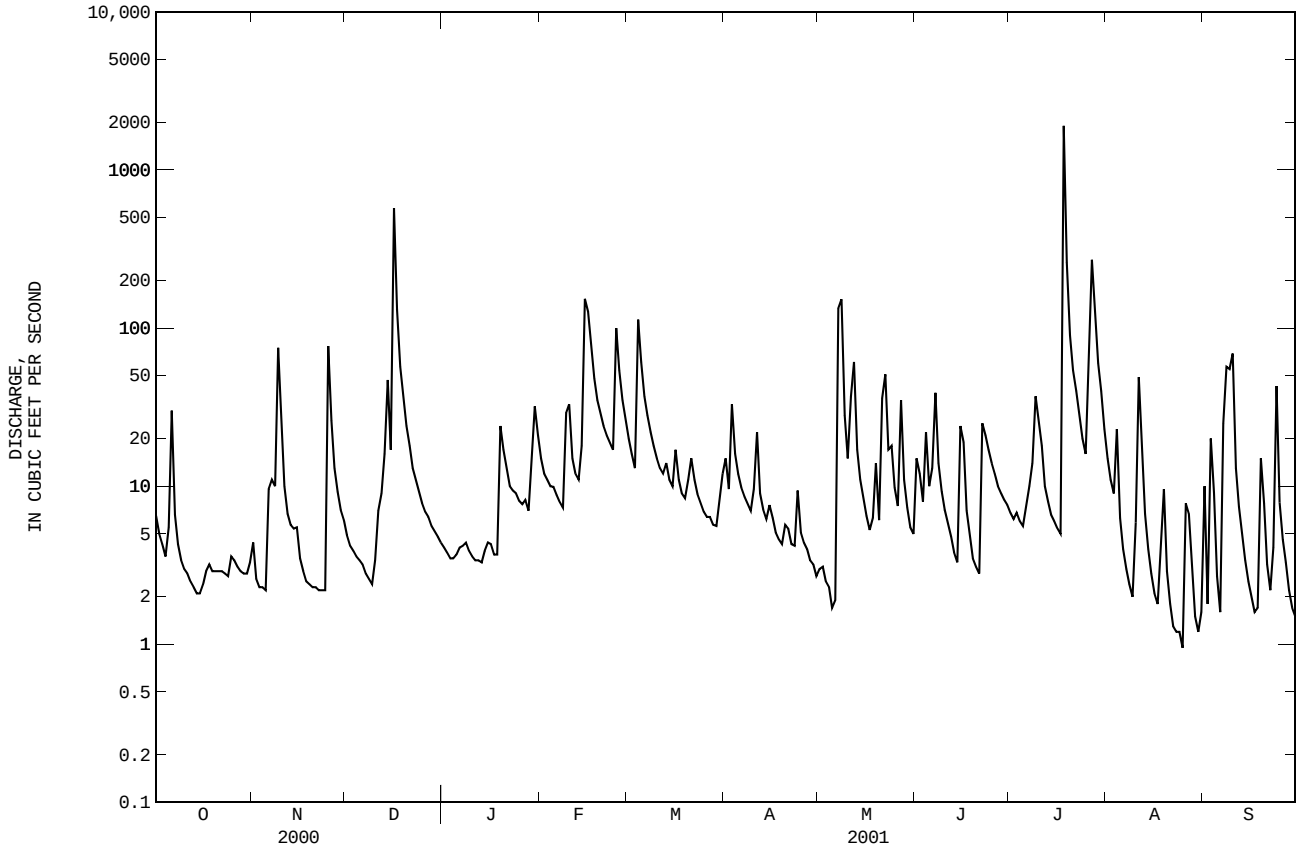
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2001, BY WATER YEAR (WY)

MEAN	8.34	16.0	27.0	33.8	42.9	49.9	37.3	30.1	20.6	17.8	11.1	9.42
MAX	40.7	54.7	88.9	148	119	195	143	114	83.5	109	42.1	105
(WY)	1978	1974	1979	1950	1956	1964	1970	1961	1950	1973	1978	1979
MIN	.15	.71	1.90	3.31	3.44	4.20	5.27	3.04	.93	.37	.52	.033
(WY)	1954	1954	1954	1981	1954	1954	1954	1954	1954	1954	1999	1953

03293000 MIDDLE FORK BEARGRASS CREEK AT LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1944 - 2001	
ANNUAL TOTAL	9227.68		8380.85			
ANNUAL MEAN	25.2		23.0		25.3	
HIGHEST ANNUAL MEAN					49.2	1979
LOWEST ANNUAL MEAN					3.76	1954
HIGHEST DAILY MEAN	1120	Feb 18	1900	Jul 18	2000	Mar 9 1964
LOWEST DAILY MEAN	.35	Aug 15	.95	Aug 25	.00	Aug 27 1952
ANNUAL SEVEN-DAY MINIMUM	.81	Aug 11	2.3	Nov 18	.00	Sep 28 1952
MAXIMUM PEAK FLOW			1900	Jul 18	5900	Mar 2 1997
MAXIMUM PEAK STAGE			6.85	Jul 18	8.70	Mar 2 1997
INSTANTANEOUS LOW FLOW					.00	Aug 27 1952
ANNUAL RUNOFF (CFSM)	1.37		1.25		1.37	
ANNUAL RUNOFF (INCHES)	18.66		16.94		18.67	
10 PERCENT EXCEEDS	48		37		53	
50 PERCENT EXCEEDS	6.6		7.4		9.9	
90 PERCENT EXCEEDS	2.1		2.4		1.9	

e Estimated



03294500 OHIO RIVER AT LOUISVILLE, KY

LOCATION.--Lat 38°16'49", long 85°47'57", Jefferson County, Hydrologic Unit 05140101, on left bank at downstream end of lock guide wall in lower pool at McAlpine Locks, at Louisville, 5.3 mi downstream from Beargrass Creek, and at mile 607.3.

DRAINAGE AREA.--91,170 mi^2, approximately.

PERIOD OF RECORD.--January 1928 to current year. Prior to October 1935 monthly discharge only, published in WSP 1305. Gage-height records collected in this vicinity since 1871 are published in reports of National Weather Service.

REVISED RECORDS.--WSP 893: 1939, KY-92-1 peak. The maximum gage height for the water year 2000 has been revised to 56.36 ft on Feb. 22.

GAGE.--Water-stage recorder. Datum of gage is 373.18 ft above NGVD of 1929 or 374.00 ft Ohio River datum. Prior to Oct. 1, 1939, and Oct. 1, 1943 to Sept. 30, 1946, various combinations of gages near Louisville were used. Oct. 1, 1939 to Sept. 30, 1943, water-stage recorders at Louisville and Kosmosdale, downstream from McAlpine Dam (4 mi and 20.1 mi, respectively), were used to determine discharge. Oct. 1, 1946 to Sept. 30, 1961, nonrecording gage at site 0.3 mi upstream at same datum. Oct. 1, 1952 to Sept. 30, 1970, upper nonrecording gage at dam 43, 25.9 mi downstream used as an auxiliary gage. Since Oct. 1, 1970, auxiliary water-stage recorder at Kosmosdale, 19.8 mi downstream. Datum of auxiliary gage is 372.75 ft above NGVD of 1929 or 373.67 ft above Ohio River Dam.

REMARKS.--Records good except for those below 20,000 ft^3/s and those estimated, which are poor. Flow regulated by Ohio River system of locks, dams, and reservoirs.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52300	21400	50400	43200	188000	101000	91500	59200	106000	19700	248000	43100
2	47700	19700	44500	41600	227000	84100	115000	45300	92800	23700	218000	53200
3	49100	17800	50300	30800	240000	75500	127000	48400	99000	39300	148000	26500
4	36000	20400	47300	33900	210000	70100	125000	44000	129000	35400	114000	28400
5	47200	24800	40100	32900	166000	112000	114000	33900	141000	30300	e80000	24500
6	62400	20200	32300	33100	137000	155000	109000	33300	162000	44000	43600	29300
7	45900	19100	29300	35300	112000	171000	112000	41300	206000	40900	46000	20700
8	47600	20900	28100	32600	91200	155000	123000	41600	202000	46000	36400	21400
9	51000	21600	30600	32900	79200	121000	142000	48400	212000	e95000	e30000	13200
10	45400	39800	27200	27100	82400	102000	154000	46600	207000	e128000	26600	39500
11	42100	45400	27000	39800	98300	91000	162000	34900	185000	e120000	e34000	19400
12	46200	34400	43600	28100	105000	80200	198000	26800	123000	e75000	41800	19800
13	42500	44100	39000	25200	124000	69900	251000	33100	e90000	e70000	54900	14300
14	38500	37500	50500	34900	134000	100000	283000	31900	e80000	e50000	49400	20000
15	36800	46300	63800	28300	143000	134000	259000	32600	e57000	e35000	56100	12100
16	37800	34400	127000	23400	159000	151000	227000	34900	e54000	e30000	e45000	13900
17	27400	36500	243000	30400	262000	159000	176000	49600	e45000	e33000	34700	12800
18	32000	35100	296000	33300	e295000	170000	151000	119000	e48000	e85000	26000	10000
19	37900	29600	302000	44400	e305000	182000	164000	207000	39700	e125000	36000	11300
20	37200	23800	292000	67500	e300000	181000	161000	272000	20600	e90000	19000	24100
21	47200	28900	265000	115000	e260000	172000	153000	325000	14300	e42000	15500	20000
22	44100	20800	219000	175000	e225000	184000	144000	322000	26600	e40000	20100	15100
23	38100	20100	167000	174000	205000	204000	139000	289000	42100	e45000	23300	26600
24	26200	27000	137000	131000	157000	219000	146000	302000	46200	e40000	18400	28300
25	34400	32000	104000	90800	137000	224000	138000	338000	44100	e38000	20500	17600
26	34700	35600	73200	75900	117000	203000	118000	346000	46500	37400	30100	15600
27	37400	26200	49900	72600	105000	167000	105000	312000	48400	57900	21300	30600
28	36100	25600	36600	63200	108000	142000	89700	261000	27800	113000	19500	24400
29	25300	43000	46200	54400	---	116000	63800	221000	26700	130000	45100	21300
30	14800	46000	40200	60200	---	95500	64000	184000	26300	144000	40500	21900
31	24700	---	42700	120000	---	83600	---	147000	---	216000	e41000	---
TOTAL	1226000	898000	3044800	1830800	4772100	4274900	4405000	4330800	2648100	2118600	1682800	678900
MEAN	39550	29930	98220	59060	170400	137900	146800	139700	88270	68340	54280	22630
MAX	62400	46300	302000	175000	305000	224000	283000	346000	212000	216000	248000	53200
MIN	14800	17800	27000	23400	79200	69900	63800	26800	14300	19700	15500	10000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2001, BY WATER YEAR (WY)

MEAN	37160	68080	121300	165100	194300	241700	203400	143300	85630	55920	44020	32820
MAX	153500	245900	321300	595800	430400	524300	403300	392900	234400	163400	151300	166600
(WY)	1980	1986	1973	1937	1939	1945	1948	1996	1981	1958	1958	1979
MIN	4377	6660	14090	21630	38010	69390	66480	29350	16400	8035	4924	6005
(WY)	1931	1931	1931	1931	1934	1969	1986	1941	1988	1930	1930	1930

03294500 OHIO RIVER AT LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1929 - 2001	
ANNUAL TOTAL	36022400		31910800			
ANNUAL MEAN	98420		87430		115700	
HIGHEST ANNUAL MEAN					176700	1979
LOWEST ANNUAL MEAN					57390	1954
HIGHEST DAILY MEAN	538000	Feb 22	346000	May 26	1110000	Jan 27 1937
LOWEST DAILY MEAN	14800	Oct 30	10000	Sep 18	2100	Aug 12 1930
ANNUAL SEVEN-DAY MINIMUM	20400	Nov 2	13500	Sep 13	3530	Oct 15 1930
MAXIMUM PEAK FLOW			352000	May 26	1110000	Jan 27 1937
MAXIMUM PEAK STAGE			40.83	May 26	85.44	Jan 27 1937
10 PERCENT EXCEEDS	230000		207000		278000	
50 PERCENT EXCEEDS	58600		47300		72000	
90 PERCENT EXCEEDS	28700		21400		16700	

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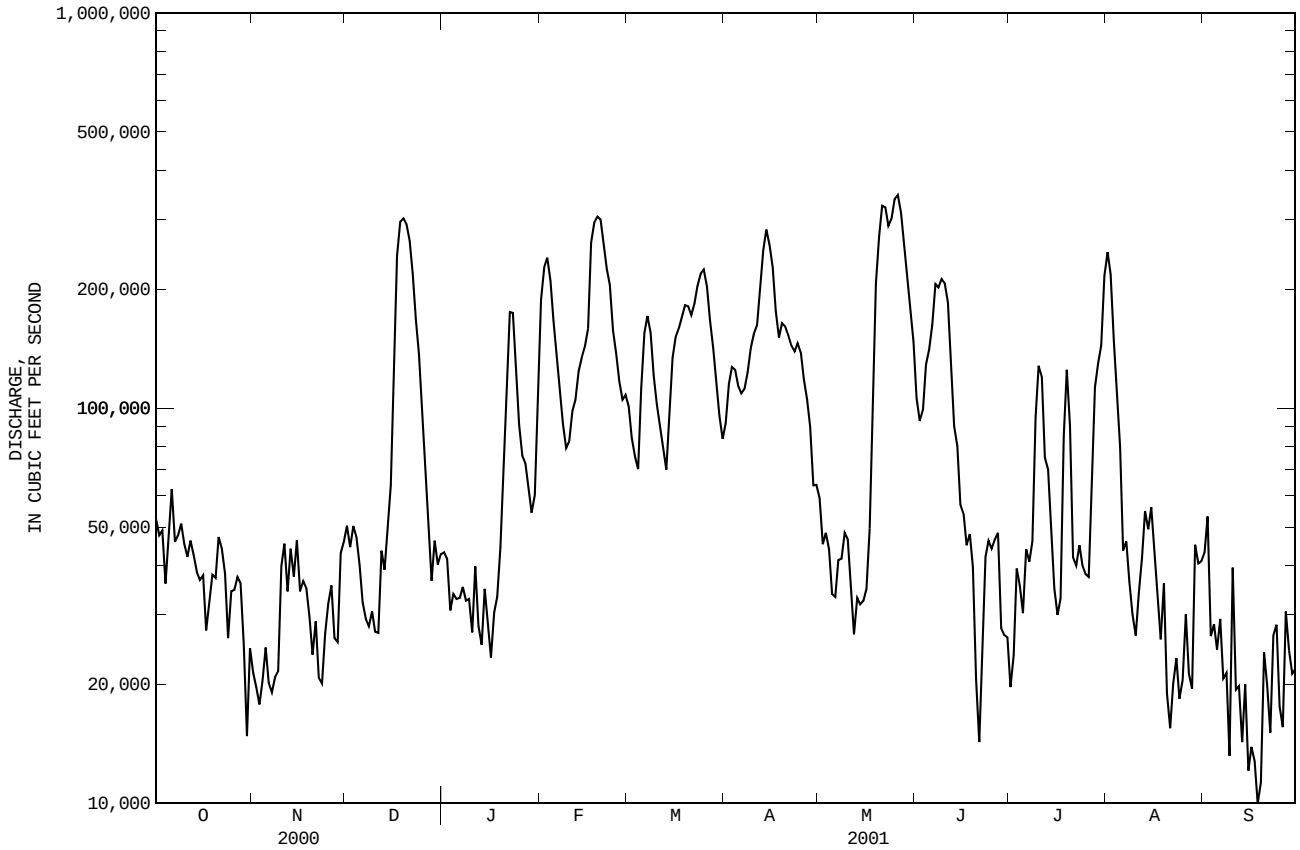


03294550 MILL CREEK CUTOFF NEAR LOUISVILLE, KY

LOCATION.--Lat 38°10'39", long 85°52'01", Jefferson County, Hydrologic Unit 05140101, on left bank at bridge on Highway 1230, 0.8 mi downstream from Big Run Creek, 1.5 mi upstream from Ohio River.

DRAINAGE AREA.--24.4 mi^2.

PERIOD OF RECORD.--May 1988 to January 1995, August 1999 to current year.

GAGE.--Water-stage recorder.

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

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	0805	1,420	8.89	Sep 9	2135	929	7.39
Jul 22	1925	*1,740	*9.81				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	5.1	1.6	3.8	2.0	.88	5.1	.00	.00	.00	.00	11
2	.00	4.7	1.7	3.7	1.4	3.5	.89	.00	.00	.00	.00	1.7
3	.00	4.8	1.6	3.8	1.2	.86	17	.00	.00	5.7	.00	.00
4	1.1	4.4	1.5	3.8	1.6	137	4.2	.00	10	4.6	.00	1.6
5	1.5	4.5	e1.9	3.9	1.9	17	.75	.00	1.7	.00	.00	3.7
6	4.5	6.0	e2.3	4.4	1.7	5.8	.06	.00	.00	.00	.00	4.1
7	.83	6.2	1.3	5.0	1.5	3.8	.00	30	3.7	.00	.00	9.2
8	.59	8.1	1.4	3.9	4.2	1.5	.00	45	3.2	.00	.00	34
9	.89	44	1.4	3.6	33	1.2	.00	.09	.01	1.1	.00	101
10	.88	6.7	1.4	3.4	18	.51	.00	.00	.00	.09	.00	46
11	.72	2.6	9.0	2.8	2.6	.26	.00	26	.00	.00	.00	7.1
12	1.4	2.3	8.6	1.3	.91	.67	.00	42	.00	.00	.00	5.5
13	6.3	2.2	14	1.3	1.9	3.7	.00	.36	.00	.00	.00	4.4
14	3.1	1.9	38	1.5	9.5	1.9	.00	.00	.00	.00	.00	3.9
15	3.9	2.0	3.2	1.8	170	1.4	.00	.00	2.0	.00	.00	3.3
16	3.4	2.2	485	1.3	92	9.5	.00	.00	5.4	.00	.00	3.1
17	4.1	2.3	32	.06	19	3.1	.00	.00	.00	.00	.00	2.9
18	3.8	1.6	6.7	.01	6.4	1.7	.00	.00	.00	.30	.00	2.9
19	3.8	1.0	5.0	9.4	4.9	1.5	.00	9.0	.00	.03	.00	5.3
20	3.8	2.5	4.0	5.7	4.2	2.1	.00	.17	3.6	.44	.00	6.6
21	3.9	2.7	3.8	2.1	2.2	5.1	.00	18	.74	.96	.00	4.1
22	3.9	3.0	3.8	.35	1.7	2.4	.00	34	1.3	231	.00	2.3
23	3.9	2.3	3.7	.13	1.7	1.2	.00	1.3	.01	32	.00	5.5
24	3.7	1.8	3.6	.12	1.2	.08	.00	.00	.00	.73	.00	61
25	4.1	68	3.6	.05	102	.00	.00	.00	.00	.15	.00	5.3
26	4.1	6.6	3.7	.01	7.5	.00	.00	.00	.00	9.7	.73	3.9
27	4.1	2.3	3.8	.02	2.8	.00	.00	13	.00	1.1	9.3	2.1
28	3.9	1.5	3.7	.01	1.4	.00	.00	.44	.00	.00	1.1	1.7
29	4.1	1.6	3.6	8.5	---	.00	.00	.00	.00	.00	4.3	1.8
30	4.3	1.7	3.6	19	---	.00	.00	.00	.00	.00	4.7	2.1
31	4.9	---	3.7	6.4	---	.25	---	.00	---	.00	5.5	---
TOTAL	89.51	206.6	662.2	101.16	498.41	206.91	28.00	219.36	31.66	287.90	25.63	347.10
MEAN	2.89	6.89	21.4	3.26	17.8	6.67	.93	7.08	1.06	9.29	.83	11.6
MAX	6.3	68	485	19	170	137	17	45	10	231	9.3	101
MIN	.00	1.0	1.3	.01	.91	.00	.00	.00	.00	.00	.00	.00
CFSM	.12	.28	.88	.13	.73	.27	.04	.29	.04	.38	.03	.47
IN.	.14	.31	1.01	.15	.76	.32	.04	.33	.05	.44	.04	.53

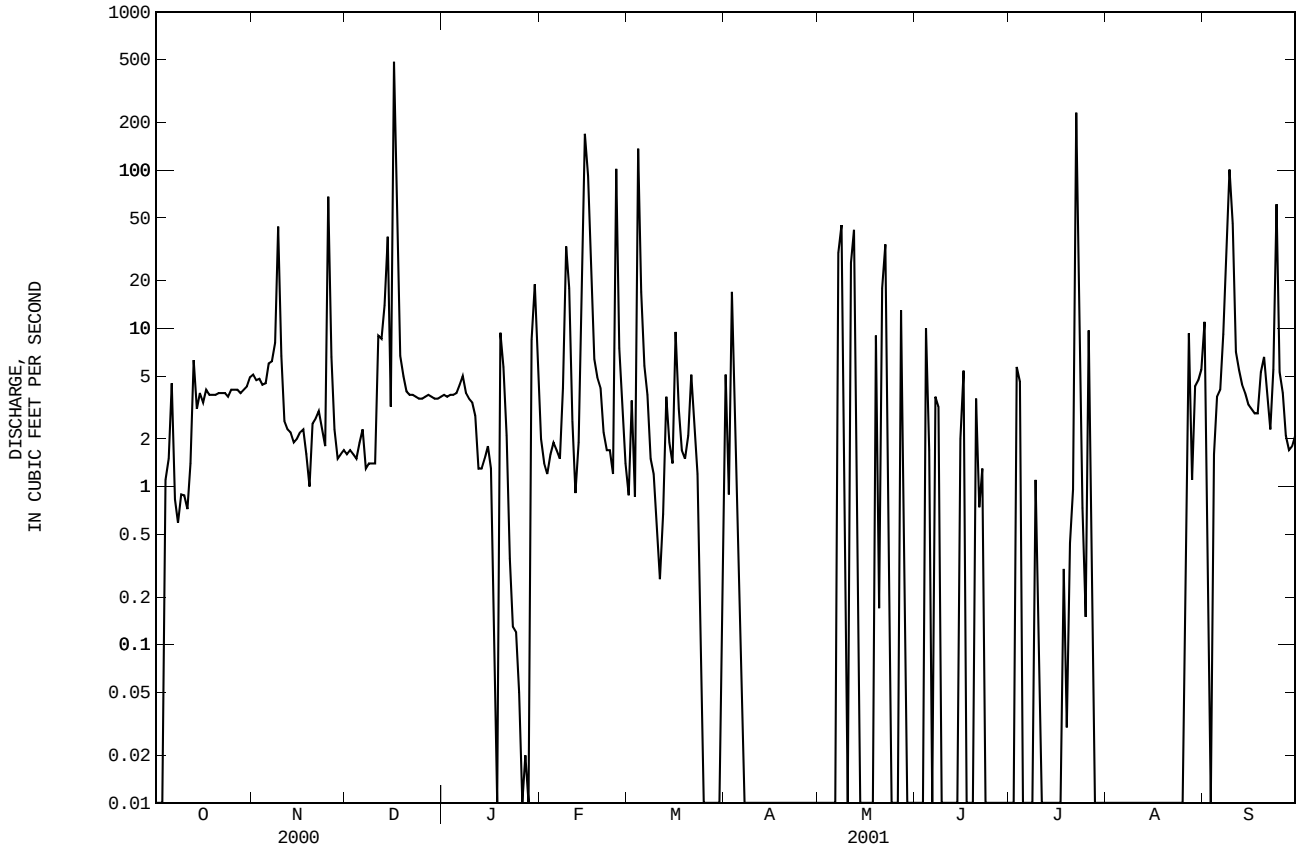
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2001, BY WATER YEAR (WY)

MEAN	4.47	8.14	19.2	23.4	38.9	26.8	11.8	16.3	10.6	8.45	7.21	5.37
MAX	11.2	18.4	73.0	72.3	87.0	68.5	25.0	69.8	49.1	23.5	33.4	11.9
(WY)	1994	1993	1991	1991	1989	1991	1989	1990	1990	1989	1992	1992
MIN	.18	.31	1.35	3.26	3.97	6.67	.93	3.21	.042	1.19	.83	.067
(WY)	1989	2000	1990	2001	1992	2001	2001	2000	1988	1990	2001	1988

03294550 MILL CREEK CUTOFF NEAR LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1988 - 2001	
ANNUAL TOTAL	4567.33		2704.44			
ANNUAL MEAN	12.5		7.41		15.2	
HIGHEST ANNUAL MEAN					25.5	1991
LOWEST ANNUAL MEAN					7.41	2001
HIGHEST DAILY MEAN	941	Feb 18	485	Dec 16	1070	Feb 15 1990
LOWEST DAILY MEAN	.00	Feb 12	.00	Oct 1	.00	May 15 1988
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 9	.00	Apr 7	.00	May 28 1988
MAXIMUM PEAK FLOW			1740	Jul 22	4310	Aug 8 1992
MAXIMUM PEAK STAGE			9.81	Jul 22	15.83	Aug 8 1992
ANNUAL RUNOFF (CFSM)	.51		.30		.62	
ANNUAL RUNOFF (INCHES)	6.96		4.12		8.48	
10 PERCENT EXCEEDS	10		9.2		25	
50 PERCENT EXCEEDS	.43		1.6		1.3	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated



03294570 MILL CREEK AT ORELL ROAD NEAR LOUISVILLE, KY

LOCATION.--Lat 38°04'41", long 85°53'24", Jefferson County, Hydrologic Unit 05140101, on right bank at bridge on Orell Road, 5.0 mi southwest of Louisville, and at mile 1.5

DRAINAGE AREA.--13.5 mi^2.

PERIOD OF RECORD.--August 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 415 ft above NGVD of 1929(from topographic map).

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

Cooperation.--Louisville and Jefferson County Metropolitan Sewer District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	6.4	1.2	1.4	5.1	3.0	4.5	.73	4.3	1.7	1.8	11
2	.45	9.8	1.3	1.6	3.3	2.4	2.8	.76	2.1	1.3	1.7	6.7
3	1.4	3.7	1.6	1.8	2.1	2.2	15	.82	1.4	11	2.1	2.8
4	3.6	2.5	1.5	1.6	1.8	166	6.8	.73	5.4	22	2.9	1.9
5	5.2	3.1	1.5	1.5	2.0	42	3.7	.73	4.1	3.4	e1.3	1.9
6	4.8	8.6	2.0	1.7	1.9	9.4	2.8	.69	1.3	1.6	e1.2	e.78
7	.81	5.6	2.2	1.5	1.5	5.7	1.9	17	29	1.7	e1.1	e2.7
8	.37	3.3	1.9	1.4	1.6	4.6	1.5	54	21	2.1	e.94	e27
9	.38	48	1.8	1.4	9.1	3.1	1.2	3.8	1.8	4.2	2.9	e17
10	.51	16	2.0	1.2	30	2.2	1.0	.77	.55	3.6	7.3	e47
11	.73	3.7	7.7	1.2	5.9	1.4	.97	76	.34	2.5	4.8	e18
12	2.0	1.5	13	1.3	3.4	1.8	1.2	202	.50	2.0	3.9	e3.4
13	1.0	1.1	7.0	1.5	2.4	3.3	1.3	5.4	.48	2.1	1.5	e1.9
14	.64	1.0	47	1.7	13	2.7	.88	1.2	1.1	1.8	2.8	e1.4
15	.74	1.3	9.1	1.7	154	2.0	.97	.60	7.4	1.3	4.8	e1.1
16	1.0	4.5	862	1.3	111	8.3	1.1	.66	16	3.8	7.7	e.96
17	1.3	5.9	123	1.2	42	5.1	1.1	.66	2.4	2.3	6.5	e.84
18	2.4	2.5	14	1.3	9.7	2.6	1.1	1.4	1.0	3.1	6.1	e1.3
19	1.2	1.7	16	10	252	2.2	1.1	22	1.2	3.7	5.9	e2.9
20	3.2	1.7	5.7	7.5	712	2.5	1.3	4.0	2.5	2.4	3.6	e2.2
21	.80	1.5	2.9	4.8	203	6.6	2.0	19	3.0	2.4	1.8	e1.6
22	.54	1.8	2.3	2.5	2.3	3.5	1.2	49	2.2	5.4	2.1	e1.2
23	2.9	1.9	2.1	2.5	2.1	3.1	1.0	5.9	1.6	29	2.8	e.88
24	1.5	1.8	2.0	2.9	1.4	3.0	2.8	2.7	1.1	18	2.5	e9.2
25	2.9	78	1.8	2.5	120	1.9	1.6	47	1.1	4.3	2.5	e3.8
26	2.1	16	1.8	1.7	13	1.5	.85	202	1.2	17	10	e1.2
27	2.2	5.8	1.9	1.6	6.5	1.5	.77	63	1.3	9.7	20	e1.0
28	4.2	2.8	1.7	1.4	4.4	1.5	.97	3.3	1.4	2.9	6.8	e1.1
29	6.7	1.5	1.5	3.9	---	1.4	.75	.72	2.0	2.4	3.1	e.82
30	5.7	1.2	1.5	25	---	1.6	.61	.36	4.0	2.0	1.8	e.74
31	5.0	---	1.4	9.2	---	5.4	---	2.4	---	1.2	2.8	---
TOTAL	66.67	244.2	1142.4	101.8	1716.5	303.5	64.77	789.33	122.77	171.9	127.04	174.32
MEAN	2.15	8.14	36.9	3.28	61.3	9.79	2.16	25.5	4.09	5.55	4.10	5.81
MAX	6.7	78	862	25	712	166	15	202	29	29	20	47
MIN	.37	1.0	1.2	1.2	1.4	1.4	.61	.36	.34	1.2	.94	.74

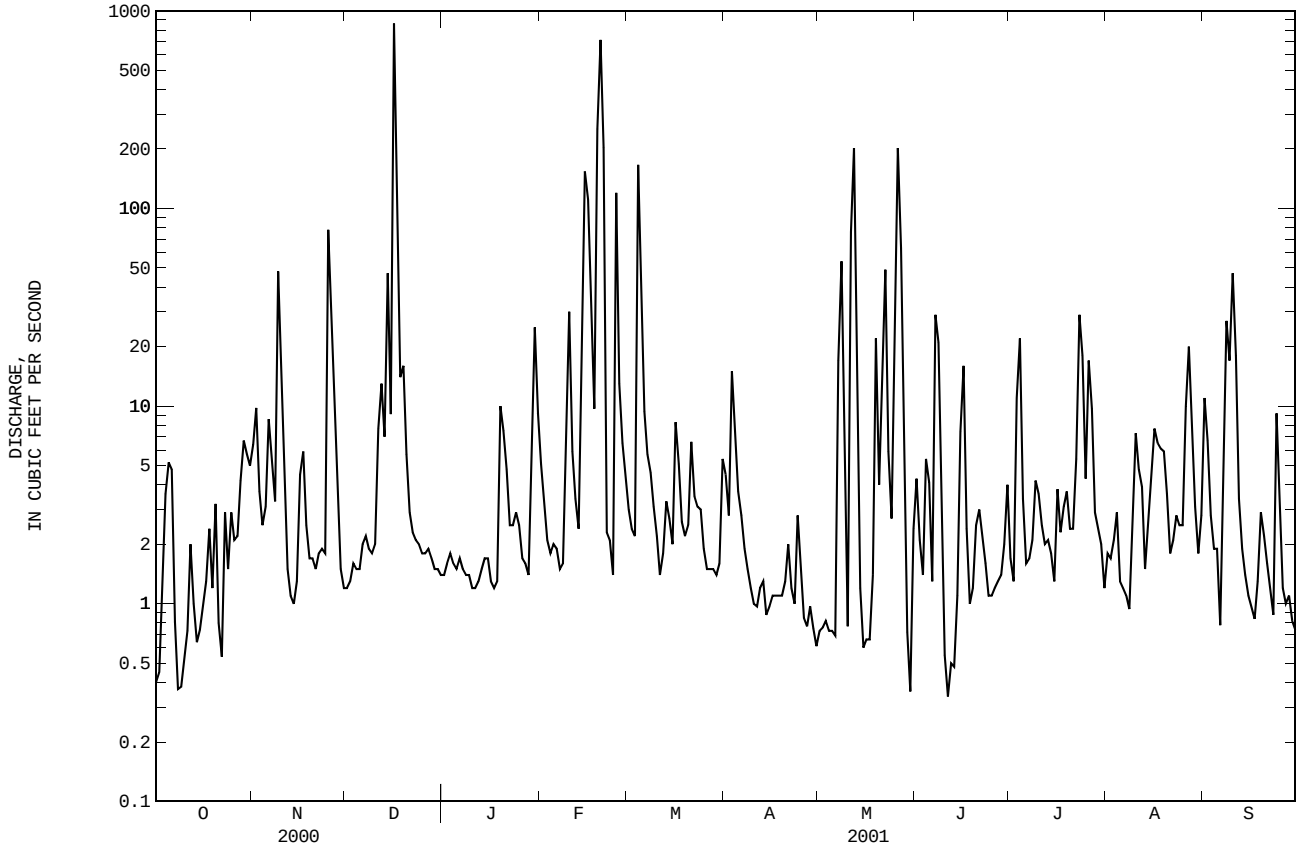
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	3.95	8.67	27.4	37.3	68.4	15.6	61.6	15.0	4.94	3.78	3.73	6.33
MAX	5.75	9.20	36.9	71.3	75.2	21.5	121	25.5	5.79	5.55	4.41	9.31
(WY)	2000	2000	2001	2000	2000	2000	2000	2001	2000	2001	2000	2000
MIN	2.15	8.14	18.0	3.28	61.3	9.79	2.16	4.46	4.09	2.02	2.69	3.86
(WY)	2001	2001	2000	2001	2001	2001	2001	2000	2001	2000	1999	1999

03294570 MILL CREEK AT ORELL ROAD NEAR LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	10935.30		5025.20			
ANNUAL MEAN	29.9		13.8		21.2	
HIGHEST ANNUAL MEAN					28.7	2000
LOWEST ANNUAL MEAN					13.8	2001
HIGHEST DAILY MEAN	1680	Apr 9	862	Dec 16	1680	Apr 9 2000
LOWEST DAILY MEAN	.08	Jan 1	.34	Jun 11	.08	Jan 1 2000
ANNUAL SEVEN-DAY MINIMUM	.25	Aug 11	.72	Apr 30	.15	Dec 26 1999
MAXIMUM PEAK FLOW			1640	Dec 16	2990	Jan 4 2000
MAXIMUM PEAK STAGE			6.73	Dec 16	16.53	Feb 19 2000
10 PERCENT EXCEEDS	22		17		19	
50 PERCENT EXCEEDS	1.7		2.2		2.0	
90 PERCENT EXCEEDS	.44		.88		.50	

e Estimated



03295400 SALT RIVER AT GLENSBORO, KY

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

DRAINAGE AREA.--172 mi^2.

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

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

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

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	2000	8,970	9.88	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	68	34	46	187	181	202	14	47	8.8	68	41
2	23	71	33	38	157	159	217	15	52	7.6	39	28
3	18	71	34	32	136	140	214	14	46	5.9	181	21
4	15	69	33	e32	124	1270	251	13	49	6.7	789	24
5	15	93	33	e32	114	1650	212	12	79	13	211	38
6	16	99	30	e33	103	609	163	12	57	38	96	20
7	14	105	29	e33	93	326	135	13	864	28	57	13
8	15	113	29	e33	84	233	116	19	553	19	39	9.9
9	17	194	29	e34	86	183	100	36	288	21	29	8.1
10	16	165	28	36	294	150	90	26	153	18	32	7.9
11	15	69	31	e35	267	130	81	34	65	12	79	7.4
12	19	98	40	e36	189	114	73	32	44	9.2	38	8.8
13	21	75	55	e37	158	113	64	24	32	7.5	123	7.5
14	22	72	470	40	227	105	58	16	24	6.3	86	6.9
15	24	53	307	44	1720	100	55	12	21	5.3	47	6.1
16	26	42	3900	45	2430	96	54	13	17	4.8	27	7.3
17	27	37	3380	41	2210	93	46	13	14	4.3	19	7.3
18	32	32	683	40	829	89	46	175	15	7.5	15	7.3
19	40	29	296	229	420	82	40	344	20	13	11	9.8
20	44	27	195	493	288	100	36	221	13	20	10	17
21	50	26	153	339	217	733	34	858	10	11	10	18
22	56	24	125	224	178	504	31	938	12	7.8	9.6	11
23	58	23	104	188	156	303	29	446	12	7.6	9.3	9.1
24	58	23	e81	161	140	219	27	218	13	16	9.0	8.6
25	60	45	67	e146	600	174	23	161	8.0	15	9.4	7.2
26	61	83	e56	e135	596	142	21	107	6.2	17	11	5.5
27	63	63	e52	e129	297	123	20	88	6.5	181	40	4.6
28	65	51	e50	e124	223	109	19	106	7.9	227	23	3.7
29	63	43	e47	122	---	98	16	75	9.2	117	108	3.2
30	78	38	e46	255	---	91	16	62	11	244	55	2.3
31	68	---	e46	227	---	89	---	50	---	126	73	---
TOTAL	1129	2001	10496	3439	12523	8508	2489	4167	2548.8	1225.3	2353.3	369.5
MEAN	36.4	66.7	339	111	447	274	83.0	134	85.0	39.5	75.9	12.3
MAX	78	194	3900	493	2430	1650	251	938	864	244	789	41
MIN	14	23	28	32	84	82	16	12	6.2	4.3	9.0	2.3
CFSM	.21	.39	1.97	.64	2.60	1.60	.48	.78	.49	.23	.44	.07
IN.	.24	.43	2.27	.74	2.71	1.84	.54	.90	.55	.27	.51	.08

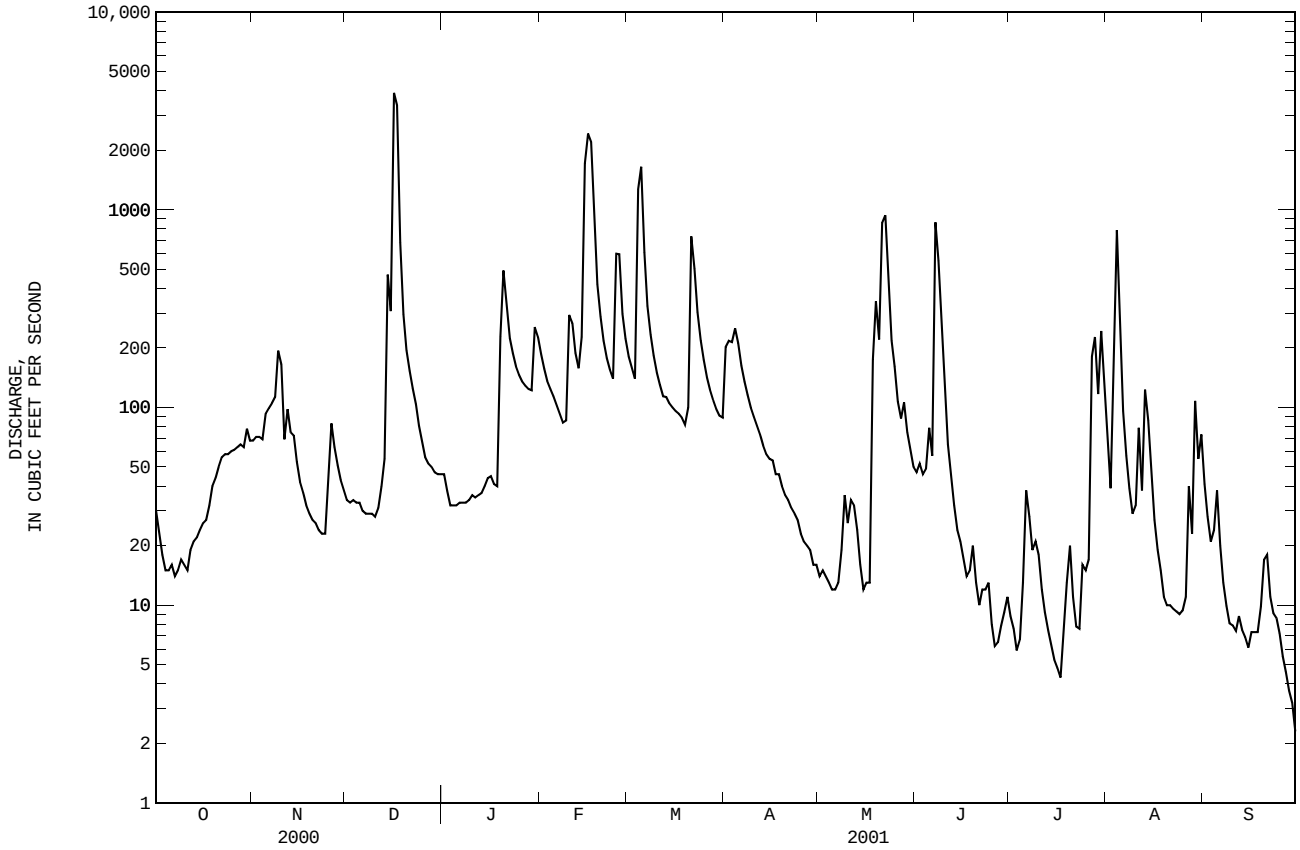
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2001, BY WATER YEAR (WY)

MEAN	53.7	137	339	439	441	560	202	295	285	137	55.4	49.4
MAX	262	359	1360	675	642	1845	480	925	926	528	137	241
(WY)	1991	1994	1991	1994	1991	1997	1998	1995	1997	1998	1992	1996
MIN	6.13	7.28	29.1	111	149	99.9	71.4	18.4	13.8	4.29	.53	.46
(WY)	1995	2000	2000	2001	1996	1990	1997	2000	2000	2000	1999	1999

03295400 SALT RIVER AT GLENSBORO, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1989 - 2001	
ANNUAL TOTAL	50048.55		51248.9			
ANNUAL MEAN	137		140		248	
HIGHEST ANNUAL MEAN					403	1997
LOWEST ANNUAL MEAN					103	2000
HIGHEST DAILY MEAN	4690	Feb 19	3900	Dec 16	16400	Mar 2 1997
LOWEST DAILY MEAN	.73	Jul 27	2.3	Sep 30	.00	Aug 5 1999
ANNUAL SEVEN-DAY MINIMUM	1.3	Jul 23	5.0	Sep 24	.00	Sep 6 1999
MAXIMUM PEAK FLOW			8970	Dec 16	22000	Mar 2 1997
MAXIMUM PEAK STAGE			9.88	Dec 16	12.91	Mar 2 1997
ANNUAL RUNOFF (CFSM)	.80		.82		1.44	
ANNUAL RUNOFF (INCHES)	10.82		11.08		19.61	
10 PERCENT EXCEEDS	196		247		535	
50 PERCENT EXCEEDS	32		45		72	
90 PERCENT EXCEEDS	3.9		9.2		5.2	

e Estimated



03295702 BULLSKIN CREEK NEAR SIMPSONVILLE, KY

LOCATION.--Lat 38°13'07", long 85°18'07", Shelby County, Hydrologic Unit 05140102, at center span on the downstream side of bridge on Highway 60, 2.6 miles east of Simpsonville, 2.6 miles below Fox Run, and at mile 21.7.

DRAINAGE AREA.--54.8 mi^2.

PERIOD OF RECORD.--May 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 680 ft above NGVD of 1929 (from topographic map).

REMARKS.--Records fair except for those below 2.0 ft^3/s and those estimated, which are poor.

COOPERATION.--City of Simpsonville.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	7.5	16	e14	e135	62	27	3.4	244	.29	.13	.00
2	7.4	7.4	14	e13	77	55	26	3.1	124	.13	.06	.00
3	6.3	7.2	12	e12	58	45	48	2.8	115	.19	.04	.01
4	5.4	6.7	11	e12	50	523	59	2.7	122	.40	.06	.06
5	5.9	6.6	10	e11	44	e560	47	2.5	127	.25	.03	.38
6	6.9	7.3	9.5	e11	37	175	43	2.2	78	.10	.08	.42
7	7.5	9.6	8.9	e10	30	e135	37	2.5	62	.06	.30	.48
8	14	12	8.3	e10	27	e104	30	6.9	45	.06	.30	.43
9	11	e122	8.3	e9.8	29	69	26	6.5	29	.27	.33	.44
10	8.5	e62	7.8	e9.4	123	56	116	3.7	19	.15	.30	.65
11	7.6	27	7.8	e9.2	86	48	193	2.6	13	.06	.30	.41
12	7.0	15	10	e9.1	69	42	80	10	9.4	.03	.28	.38
13	6.3	12	12	e9.0	57	43	49	10	7.0	.03	.20	.38
14	6.2	10	43	e9.0	56	34	35	4.6	5.3	.03	.02	.45
15	6.2	9.3	61	e9.0	520	31	30	2.8	4.1	.02	.00	.48
16	5.4	8.3	1550	e9.1	715	45	24	2.0	4.4	.01	.00	.48
17	5.8	9.9	631	e9.1	452	44	18	1.2	3.8	.00	.00	.48
18	6.4	11	187	24	176	36	15	1.0	2.5	.57	.00	.48
19	6.7	11	120	71	123	32	13	3.7	1.4	.18	.00	.78
20	7.1	13	e82	109	94	31	12	16	1.0	.06	.00	.57
21	7.1	13	e62	89	71	46	12	24	.91	.03	.00	.58
22	7.5	12	e48	75	59	44	10	96	3.0	.02	.00	.62
23	10	12	e39	62	50	41	8.8	57	3.2	.01	.00	.59
24	10	11	e33	e50	43	35	8.5	32	2.5	.02	.00	.63
25	9.5	47	e29	e45	338	29	7.2	24	1.6	.01	.16	.44
26	9.4	83	e25	e38	155	25	6.0	15	.94	.01	.12	.05
27	9.5	51	e23	e34	104	23	5.4	43	.59	.52	.05	.02
28	9.3	35	e20	e32	79	20	4.6	40	.45	2.1	.02	.00
29	9.2	25	e18	e103	---	20	3.7	20	.42	1.3	.01	.00
30	9.2	20	e16	e249	---	20	3.4	12	.35	.68	.00	.00
31	7.6	---	e15	e216	---	28	---	7.7	---	.27	.00	---
TOTAL	243.6	683.8	3137.6	1372.7	3857	2501	997.6	460.9	1030.86	7.86	2.79	10.69
MEAN	7.86	22.8	101	44.3	138	80.7	33.3	14.9	34.4	.25	.090	.36
MAX	14	122	1550	249	715	560	193	96	244	2.1	.33	.78
MIN	5.4	6.6	7.8	9.0	27	20	3.4	1.0	.35	.00	.00	.00

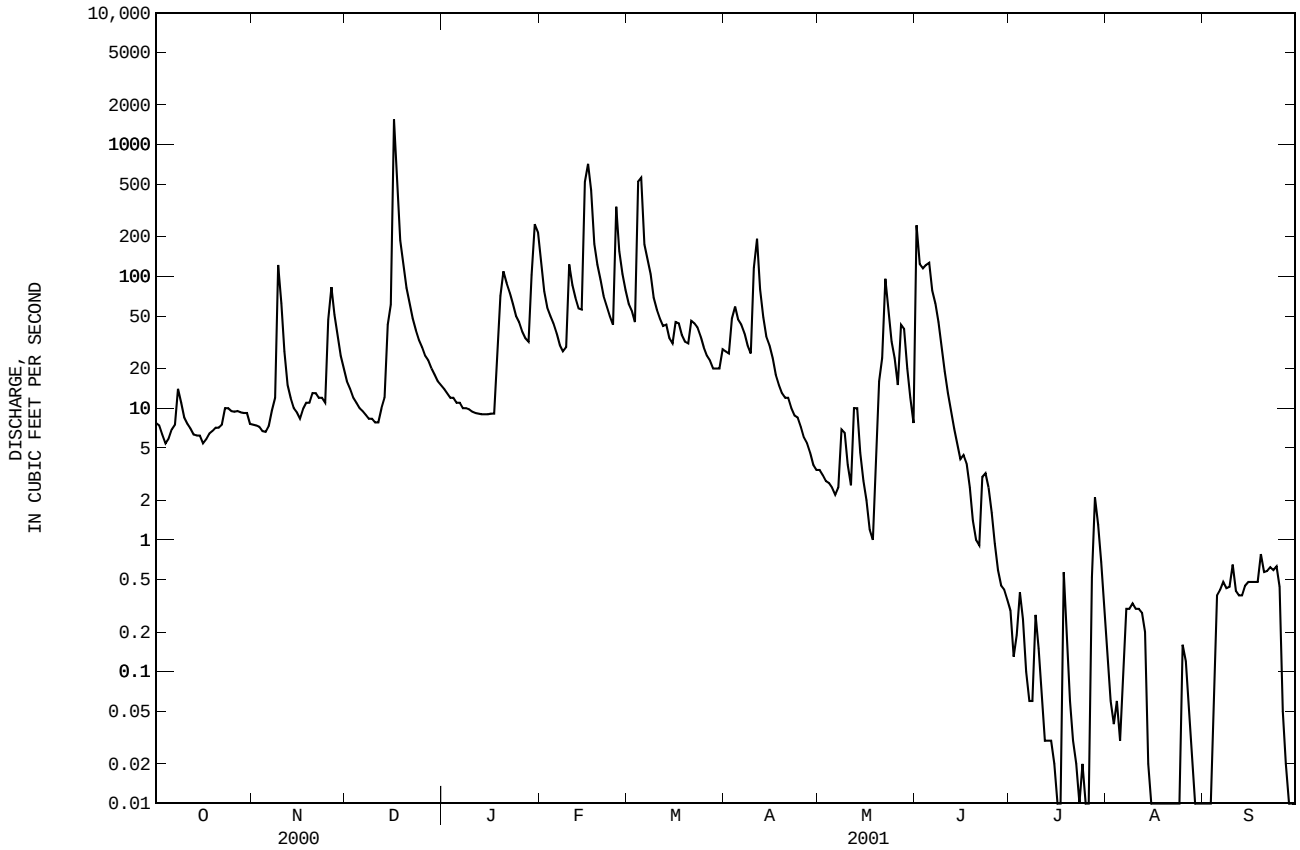
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	2.72	7.94	39.3	101	175	107	49.4	36.0	93.1	17.4	2.69	3.72
MAX	7.86	22.8	101	144	316	125	86.5	121	293	54.1	5.71	14.4
(WY)	2001	2001	2001	2000	2000	1999	2000	1998	1998	1998	1998	2000
MIN	.000	.18	5.20	44.3	67.4	80.7	28.4	2.61	8.99	.25	.000	.000
(WY)	2000	2000	1999	2001	1999	2001	1999	1999	2000	2001	1999	1999

03295702 BULLSKIN CREEK NEAR SIMPSONVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001	
ANNUAL TOTAL	25230.11		14306.40			
ANNUAL MEAN	68.9		39.2		43.3	
HIGHEST ANNUAL MEAN					58.8	2000
LOWEST ANNUAL MEAN					31.9	1999
HIGHEST DAILY MEAN	3830	Feb 18	1550	Dec 16	3830	Feb 18 2000
LOWEST DAILY MEAN	.00	Jun 13	.00	Jul 17	.00	Aug 25 1998
ANNUAL SEVEN-DAY MINIMUM	.07	Jun 9	.00	Aug 15	.00	Sep 5 1998
MAXIMUM PEAK FLOW			3450	Dec 16	8990	Feb 18 2000
MAXIMUM PEAK STAGE			12.13	Dec 16	21.05	Feb 18 2000
10 PERCENT EXCEEDS	92		82		99	
50 PERCENT EXCEEDS	9.9		9.4		6.5	
90 PERCENT EXCEEDS	1.0		.05		.00	

e Estimated



03295890 BRASHEARS CREEK AT TAYLORSVILLE, KY

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

DRAINAGE AREA.--259 mi^2

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

GAGE.--Water-stage recorder. Datum of gage is 466.85 ft above NGVD of 1929.

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

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	2400	*7,320	*16.04	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	28	72	e65	536	464	166	26	197	2.1	17	20
2	41	27	63	e60	439	405	174	21	417	2.5	12	16
3	31	26	56	e55	350	351	181	19	281	2.6	8.2	11
4	23	25	50	e50	e243	1060	316	18	245	3.0	7.2	11
5	18	23	45	e45	e191	2660	291	17	341	27	5.4	11
6	19	25	41	e42	e158	1290	266	16	355	23	5.6	8.1
7	14	29	39	e38	e141	855	244	18	353	8.9	6.8	8.7
8	14	47	36	e34	e129	656	216	23	271	5.1	4.7	11
9	19	57	34	e32	139	515	189	41	196	4.6	3.9	8.6
10	15	108	34	e30	387	411	170	56	135	3.8	3.1	9.4
11	13	192	34	e27	508	340	462	39	98	3.4	3.8	6.7
12	16	125	34	e26	413	291	400	161	72	3.3	4.9	6.8
13	15	77	37	e24	355	274	268	144	56	3.9	3.8	11
14	13	57	72	e22	345	251	202	88	44	3.0	3.4	14
15	11	49	184	e20	1370	213	175	62	32	2.3	3.3	12
16	11	42	2830	e19	3180	228	153	45	24	1.8	2.5	8.3
17	9.3	36	4170	e19	3110	268	129	26	17	1.4	1.6	6.5
18	9.3	33	1440	e68	1500	236	110	20	15	69	1.3	5.1
19	7.3	30	846	195	972	206	97	77	11	115	1.2	11
20	7.3	27	572	456	734	194	89	101	8.3	57	1.2	16
21	9.7	25	464	477	580	243	83	174	6.7	22	1.3	17
22	13	21	303	399	472	291	80	768	12	8.7	1.1	22
23	16	21	249	e302	404	274	78	678	13	4.7	1.0	26
24	22	21	e180	e227	342	257	68	431	8.6	3.5	1.0	23
25	25	39	e148	e183	1030	227	62	313	6.5	2.6	1.2	18
26	27	105	e131	e145	1130	194	57	227	6.4	3.1	8.9	11
27	26	209	e116	e114	734	173	53	186	5.2	66	34	8.3
28	26	157	e103	e99	579	155	48	237	4.0	107	46	6.1
29	26	118	e91	e93	---	144	41	207	3.4	50	39	4.0
30	25	89	e83	416	---	140	32	143	2.8	41	22	3.7
31	25	---	e74	618	---	150	---	105	---	29	15	---
TOTAL	601.9	1868	12631	4400	20471	13416	4900	4487	3236.9	680.3	271.4	351.3
MEAN	19.4	62.3	407	142	731	433	163	145	108	21.9	8.75	11.7
MAX	55	209	4170	618	3180	2660	462	768	417	115	46	26
MIN	7.3	21	34	19	129	140	32	16	2.8	1.4	1.0	3.7
CFSM	.07	.24	1.57	.55	2.82	1.67	.63	.56	.42	.08	.03	.05
IN.	.09	.27	1.81	.63	2.94	1.93	.70	.64	.46	.10	.04	.05

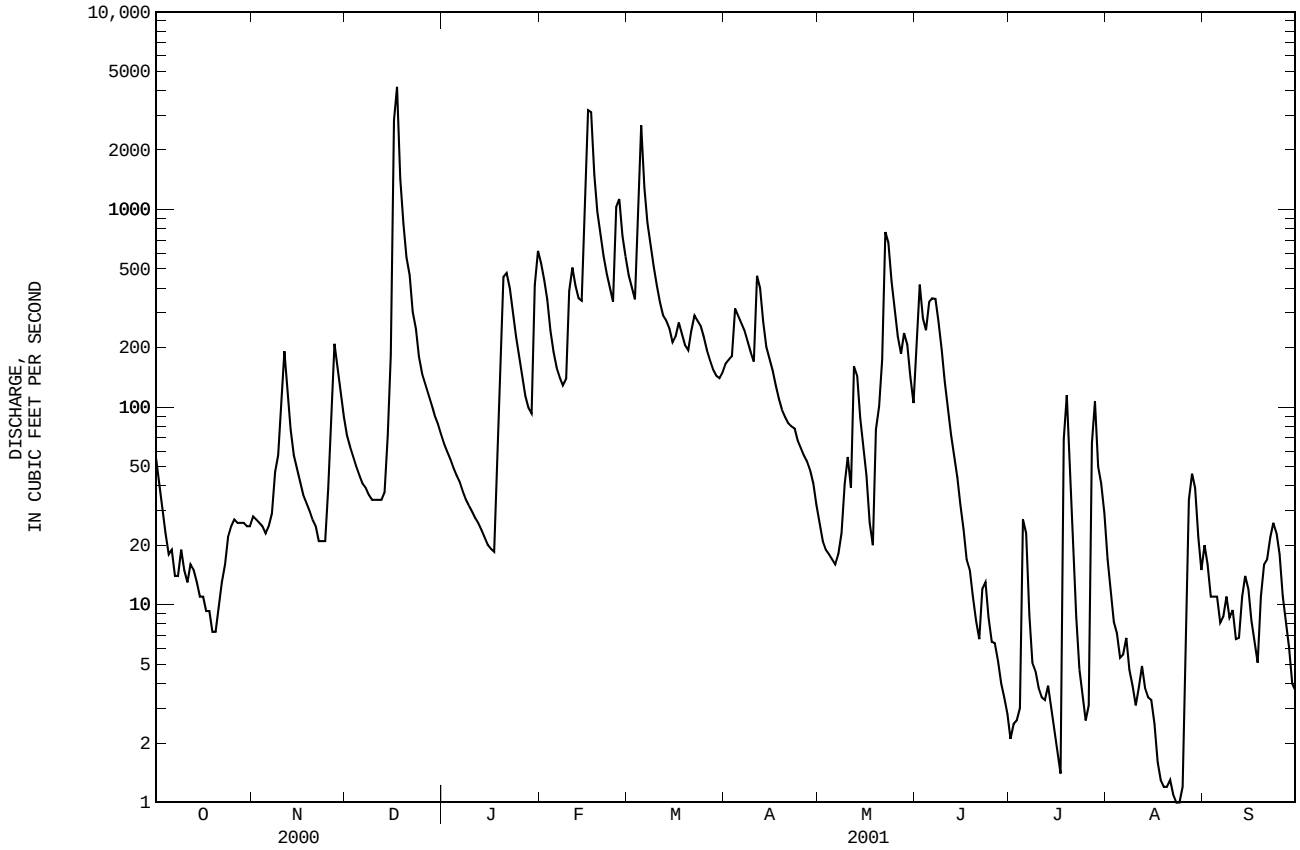
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2001, BY WATER YEAR (WY)

MEAN	34.1	164	430	541	780	701	427	434	298	97.8	46.3	19.8
MAX	240	586	1806	1140	1984	3025	841	1912	1318	584	291	136
(WY)	1991	1986	1991	1999	1989	1997	1996	1983	1997	1998	1992	1996
MIN	.012	2.76	51.1	47.0	212	80.5	48.4	37.2	1.90	4.44	.030	.001
(WY)	1989	2000	2000	1986	1992	1983	1986	2000	1988	1994	1983	1983

03295890 BRASHEARS CREEK AT TAYLORSVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1981 - 2001	
ANNUAL TOTAL	102147.3		67314.8			
ANNUAL MEAN	279		184		329	
HIGHEST ANNUAL MEAN					642	1997
LOWEST ANNUAL MEAN					184	2001
HIGHEST DAILY MEAN	20400	Feb 19	4170	Dec 17	39600	Mar 2 1997
LOWEST DAILY MEAN	3.7	Sep 9	1.0	Aug 23	.00	Aug 19 1983
ANNUAL SEVEN-DAY MINIMUM	4.0	Sep 4	1.1	Aug 19	.00	Aug 19 1983
MAXIMUM PEAK FLOW			7320	Dec 16	44800	Mar 2 1997
MAXIMUM PEAK STAGE			16.04	Dec 16	31.54	Mar 2 1997
INSTANTANEOUS LOW FLOW			.51	Aug 23	.08	Oct 1 1994
ANNUAL RUNOFF (CFSM)	1.08		.71		1.27	
ANNUAL RUNOFF (INCHES)	14.67		9.67		17.27	
10 PERCENT EXCEEDS	559		416		791	
50 PERCENT EXCEEDS	42		44		81	
90 PERCENT EXCEEDS	8.3		4.4		1.8	

e Estimated



03297900 FLOYDS FORK NEAR PEWEE VALLEY, KY

LOCATION.--Lat 38°17'07", long 85°28'03", Oldham County, Hydrologic Unit 05140102, on left bank at downstream side of bridge on State Highway 362, 2.0 mi south of PeWee Valley, 2.2 mi downstream from Curry's Fork, and at mile 44.3.

DRAINAGE AREA.--79.9 mi^2.

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

REVISED RECORDS.--WRD KY-95-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 599.892 ft above NGVD of 1929.

REMARKS.--Records fair except for discharges below 5.0 ft^3/s and those estimated, which are poor.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	1500	*5,530	*17.50	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	32	26	e22	127	77	34	5.0	284	6.0	4.9	3.0
2	16	33	23	e20	94	72	32	5.0	284	5.6	4.1	2.7
3	14	39	21	e19	74	64	72	4.9	180	6.2	4.9	2.6
4	15	48	18	e17	e61	591	70	4.4	259	7.7	5.1	2.5
5	14	48	e16	e16	e53	406	50	4.9	231	7.4	4.4	2.3
6	22	50	e15	e15	e49	152	44	6.0	127	7.1	3.2	2.2
7	25	53	e14	e14	e45	103	39	37	256	7.7	2.7	2.2
8	19	23	e13	e13	e42	81	35	203	111	6.3	2.5	3.3
9	14	e93	e12	e12	52	67	31	54	58	13	2.4	4.1
10	12	e122	e11	e12	209	58	36	27	34	11	3.0	19
11	12	49	17	e11	103	52	73	18	21	7.3	7.6	6.2
12	12	30	47	e11	81	47	42	65	15	5.3	7.1	3.6
13	12	24	36	e10	70	47	29	31	11	4.5	4.0	2.7
14	15	19	139	e9.7	75	41	24	17	8.4	4.2	2.9	2.4
15	12	16	105	e9.4	658	37	22	13	8.0	4.1	2.6	2.4
16	11	e14	2780	e9.0	693	43	22	9.7	9.0	3.9	2.3	2.1
17	11	e13	717	e8.6	434	43	e19	8.5	6.9	3.8	2.4	2.0
18	11	e12	e280	e8.3	176	36	e17	7.7	4.7	276	2.4	2.1
19	11	e11	e180	106	128	32	e15	364	4.0	17	2.4	3.0
20	12	e10	e135	e150	101	31	16	98	19	8.2	2.3	3.8
21	15	e9.4	e99	e180	81	47	17	80	13	7.8	2.2	3.3
22	17	e9.0	e81	e90	71	50	15	158	12	6.0	2.1	2.7
23	20	e8.6	e66	e50	66	41	14	87	12	5.1	2.1	2.8
24	22	e8.3	e56	e40	59	36	14	52	8.6	3.7	2.1	10
25	25	108	e48	e34	657	32	12	35	5.7	3.2	2.1	7.9
26	27	136	e42	e30	190	29	10	22	4.0	195	16	4.6
27	28	75	e37	e28	119	27	9.1	97	3.5	97	34	3.3
28	28	53	e33	e26	95	25	8.2	60	3.9	20	5.5	2.5
29	28	39	e29	e24	---	25	6.3	30	4.8	15	3.5	2.9
30	28	32	e26	262	---	26	5.4	17	5.7	9.9	3.2	1.9
31	30	---	e24	197	---	32	---	13	---	6.4	2.8	---
TOTAL	557	1217.3	5146	1454.0	4663	2450	833.0	1634.1	2004.2	781.4	148.8	116.1
MEAN	18.0	40.6	166	46.9	167	79.0	27.8	52.7	66.8	25.2	4.80	3.87
MAX	30	136	2780	262	693	591	73	364	284	276	34	19
MIN	11	8.3	11	8.3	42	25	5.4	4.4	3.5	3.2	2.1	1.9
CFSM	.22	.51	2.08	.59	2.08	.99	.35	.66	.84	.32	.06	.05
IN.	.26	.57	2.40	.68	2.17	1.14	.39	.76	.93	.36	.07	.05

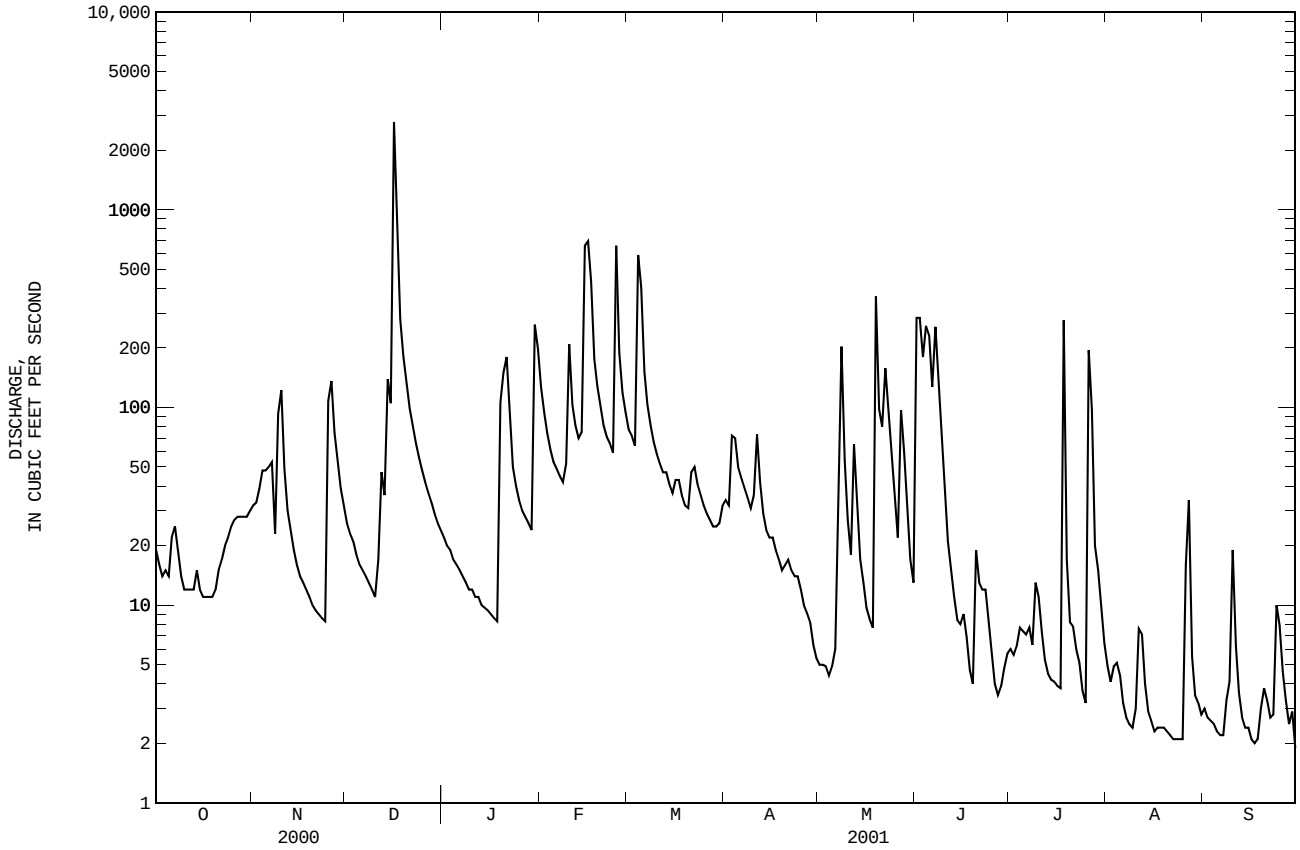
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2001, BY WATER YEAR (WY)

MEAN	11.5	41.7	110	207	183	251	123	129	118	28.5	25.5	14.6
MAX	26.3	118	331	320	448	958	306	398	381	66.7	103	87.7
(WY)	1994	1994	1997	1996	2000	1997	1996	1995	1997	1995	1993	1996
MIN	1.03	3.14	35.8	46.9	43.3	79.0	27.8	12.1	4.07	1.89	.86	.091
(WY)	2000	1992	1999	2001	1992	2001	2001	1999	1991	1991	1999	1999

03297900 FLOYDS FORK NEAR PEWEE VALLEY, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1991 - 2001	
ANNUAL TOTAL	36353.55		21004.9			
ANNUAL MEAN	99.3		57.5		105	
HIGHEST ANNUAL MEAN					198	1997
LOWEST ANNUAL MEAN					57.5	2001
HIGHEST DAILY MEAN	5190	Feb 18	2780	Dec 16	10500	Mar 2 1997
LOWEST DAILY MEAN	.00	Aug 17	1.9	Sep 30	.00	Sep 2 1999
ANNUAL SEVEN-DAY MINIMUM	.43	Jul 22	2.2	Aug 19	.01	Sep 23 1999
MAXIMUM PEAK FLOW			5530	Dec 16	18800	Mar 2 1997
MAXIMUM PEAK STAGE			17.50	Dec 16	28.60	Mar 2 1997
ANNUAL RUNOFF (CFSM)	1.24		.72		1.31	
ANNUAL RUNOFF (INCHES)	16.93		9.78		17.82	
10 PERCENT EXCEEDS	137		120		193	
50 PERCENT EXCEEDS	17		19		24	
90 PERCENT EXCEEDS	1.1		3.1		1.5	

e Estimated



03298000 FLOYDS FORK AT FISHERVILLE, KY

LOCATION.--Lat 38°11'18", long 85°27'37", Jefferson County, Hydrologic Unit 05140102, on left bank on downstream side of bridge on former State Highway 155, at Fisherville, 0.2 mi downstream from Brush Run, 1.4 mi upstream from Pope Lick, and at mile 32.7.

DRAINAGE AREA.--138 mi^2.

PERIOD OF RECORD.--August 1944 to current year. Monthly discharge only for August 1944, published in WSP 1305.

REVISED RECORDS.--WSP 1275: 1946. WSP 1909: 1945(P), 1948(P), 1960(M).

GAGE.--Water-stage recorder. Datum of gage is 542.60 ft above NGVD of 1929, from benchmark elevation supplied by Park Aerial Survey.

REMARKS.--Records fair except for discharges below 2.0 ft^3/s and those estimated, which are poor. Diversions by local golf course for irrigation.

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1937 reached a stage of 16.8 ft, from floodmark.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	1445	*6,510	*10.70	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	e16	33	e34	283	160	74	5.1	e404	1.7	e10	12
2	18	e15	31	e30	194	142	70	3.4	e402	1.5	e7.1	5.8
3	16	e14	27	e27	140	120	153	2.7	e296	1.7	e6.1	2.8
4	13	e13	23	e24	e111	888	190	2.5	e374	1.3	e6.5	2.5
5	7.4	e12	e21	e22	e95	983	119	2.2	e345	1.1	e5.6	2.2
6	e10	e12	e18	e19	e84	398	100	2.0	e244	2.3	e4.2	1.4
7	e8.0	54	17	e18	e74	262	88	46	e373	2.7	e3.2	1.4
8	e8.8	42	17	e16	e64	199	76	508	e232	4.0	e2.8	20
9	e11	149	17	e15	e70	159	65	148	123	29	e2.7	9.6
10	e8.0	250	16	e13	436	128	363	69	72	22	e3.5	52
11	e7.6	95	19	e12	231	111	392	43	47	13	e9.3	32
12	e8.6	47	41	e11	165	99	157	176	34	4.3	e8.6	11
13	e8.4	31	48	e11	133	100	87	95	25	2.2	e4.6	3.5
14	e7.6	25	228	e10	140	87	58	48	18	1.5	e3.4	2.7
15	e6.8	20	218	e9.5	1230	75	49	32	13	1.4	e2.9	1.9
16	e6.2	17	3810	e9.0	1340	91	51	24	28	1.5	e2.5	1.4
17	e5.6	15	1570	e8.8	1020	97	42	17	16	1.6	e2.6	1.2
18	e5.3	12	680	e8.7	457	78	35	14	e13	872	e2.6	1.3
19	e4.6	10	e415	e116	307	66	31	387	e12	162	e2.6	1.9
20	e4.2	7.8	e280	e180	231	64	31	212	e32	107	e2.5	16
21	e6.0	7.3	e185	e218	176	95	31	124	e23	79	e2.4	6.3
22	e7.2	4.6	e144	e140	144	105	30	291	e20	43	e2.2	3.2
23	e9.0	4.3	e119	e100	129	87	27	209	20	35	2.2	2.6
24	e12	4.1	e103	e80	111	75	26	106	21	21	2.3	12
25	e14	166	e87	e68	1120	64	22	78	14	14	2.1	22
26	e15	296	e74	e62	490	56	18	50	6.7	211	7.5	12
27	e16	147	e64	e54	278	50	15	e230	3.5	312	44	3.2
28	e15	86	e58	e50	206	46	14	e137	2.6	76	25	1.9
29	e14	58	e51	e48	---	45	11	e74	2.2	87	7.4	1.3
30	e15	43	e46	501	---	46	7.6	e42	1.9	48	3.0	1.0
31	e16	---	e40	411	---	63	---	e21	---	25	2.5	---
TOTAL	327.3	1673.1	8500	2326.0	9459	5039	2432.6	3198.9	3217.9	2184.8	193.9	248.1
MEAN	10.6	55.8	274	75.0	338	163	81.1	103	107	70.5	6.25	8.27
MAX	23	296	3810	501	1340	983	392	508	404	872	44	52
MIN	4.2	4.1	16	8.7	64	45	7.6	2.0	1.9	1.1	2.1	1.0
CFSM	.08	.40	1.99	.54	2.45	1.18	.59	.75	.78	.51	.05	.06
IN.	.09	.45	2.29	.63	2.55	1.36	.66	.86	.87	.59	.05	.07

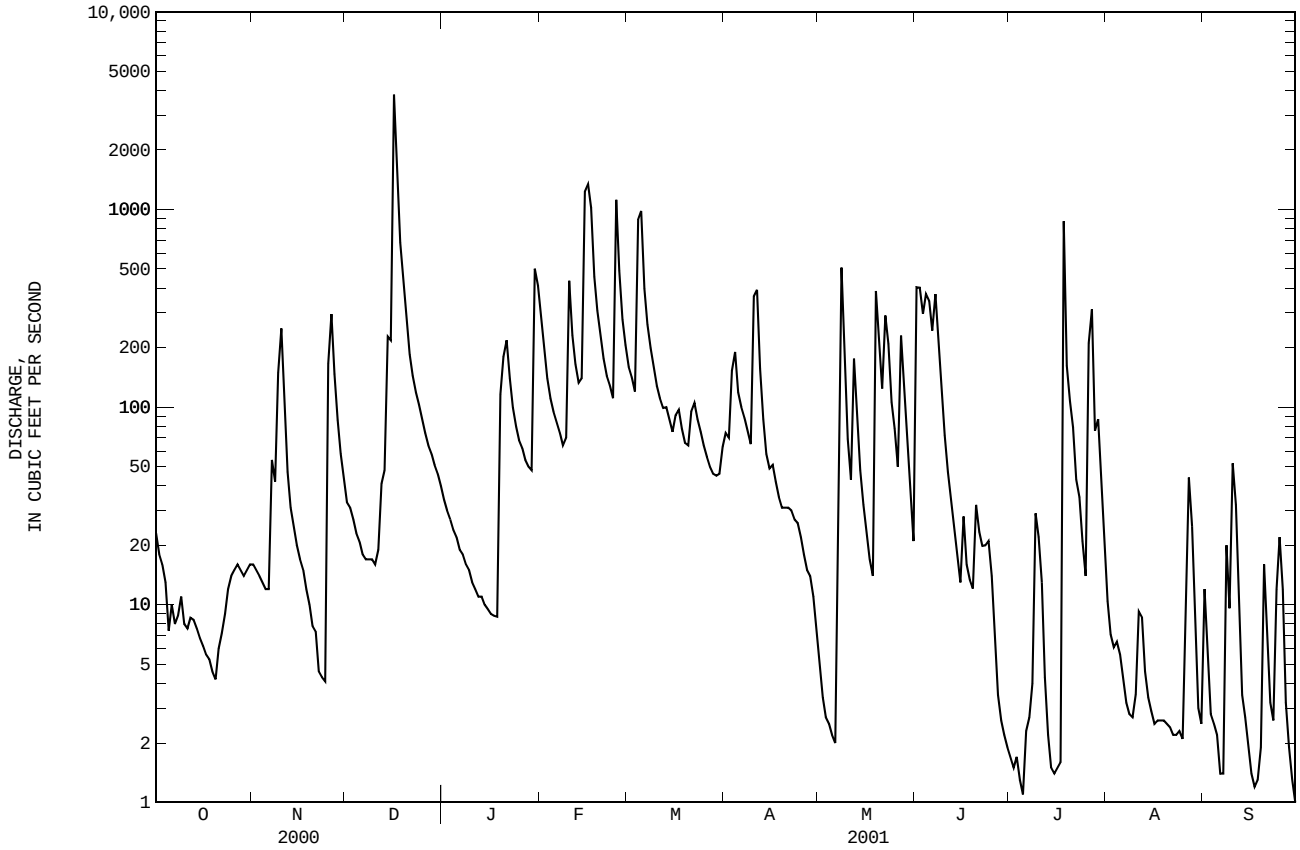
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2001, BY WATER YEAR (WY)

MEAN	31.7	102	227	295	367	399	274	207	127	64.1	43.5	38.7
MAX	423	485	1025	1252	990	1639	1021	971	622	331	290	1020
(WY)	1978	1974	1991	1950	1956	1997	1970	1983	1997	1973	1979	1979
MIN	.000	.000	.000	3.54	12.4	40.3	34.0	12.2	.90	1.73	.048	.000
(WY)	1949	1954	1954	1977	1954	1954	1959	1965	1988	1954	1962	1948

03298000 FLOYDS FORK AT FISHERVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1944 - 2001	
ANNUAL TOTAL	63763.80		38800.6			
ANNUAL MEAN	174		106		180	
HIGHEST ANNUAL MEAN					382	1979
LOWEST ANNUAL MEAN					29.0	1954
HIGHEST DAILY MEAN	7590	Feb 19	3810	Dec 16	20000	Mar 2 1997
LOWEST DAILY MEAN	.15	Jul 28	1.0	Sep 30	.00	Sep 7 1945
ANNUAL SEVEN-DAY MINIMUM	.65	Aug 30	1.6	Jun 29	.00	Sep 7 1945
MAXIMUM PEAK FLOW			6510	Dec 16	42100	Mar 2 1997
MAXIMUM PEAK STAGE			10.70	Dec 16	17.39	Mar 2 1997
INSTANTANEOUS LOW FLOW			.98	Jul 5	.00	Sep 7 1945
ANNUAL RUNOFF (CFSM)	1.26		.77		1.31	
ANNUAL RUNOFF (INCHES)	17.19		10.46		17.77	
10 PERCENT EXCEEDS	281		246		364	
50 PERCENT EXCEEDS	29		27		35	
90 PERCENT EXCEEDS	1.9		2.6		.50	

e Estimated



03298135 CHENOWETH RUN AT RUCKRIEGAL PARKWAY NEAR JEFFERSONTOWN, KY

LOCATION.--Lat 38°11'41", long 85°33'26", Jefferson County, Hydrologic Unit 05140102, on right downstream bank at bridge on Ruckriegal Parkway, 500 feet south of Penion Drive, near Jeffersontown.

DRAINAGE AREA.--5.47 mi^2.

PERIOD OF RECORD.--May 5, 1993 to February 26, 1998; January 19, 1999 to current year.

GAGE.--Water-stage recorder.

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

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)

No peak greater than base discharge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

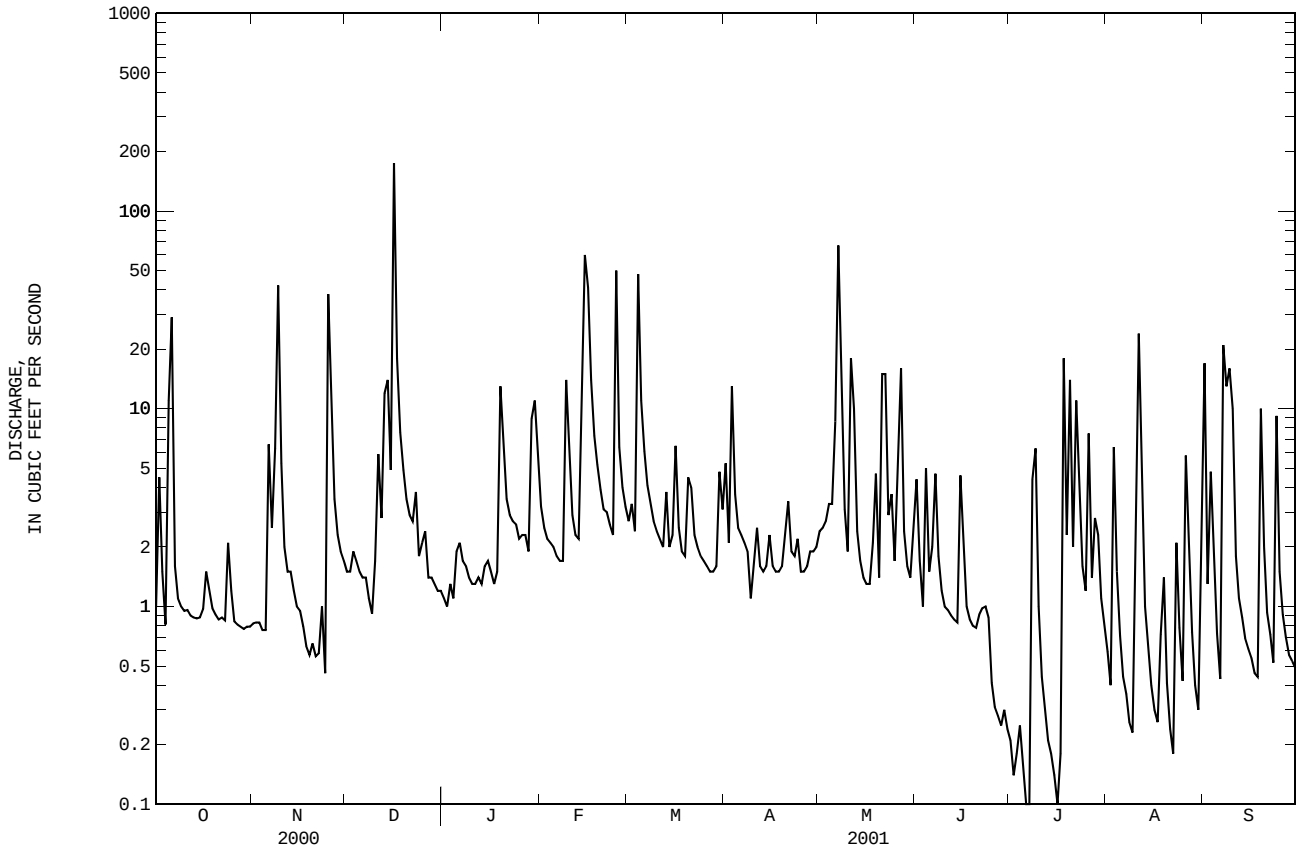
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.99	.82	1.5	1.1	3.2	2.7	5.3	2.4	4.4	.21	.59	17
2	4.5	.83	1.5	1.0	2.5	3.3	2.1	2.5	1.7	.14	.40	1.3
3	1.5	.83	1.9	1.3	2.2	2.4	13	2.7	1.0	.18	6.4	4.8
4	.81	.76	1.7	1.1	2.1	48	3.7	3.3	5.0	.25	1.5	1.5
5	11	.76	1.5	1.9	2.0	11	2.5	3.3	1.5	.16	.71	.73
6	29	6.6	1.4	2.1	1.8	6.1	2.3	8.6	2.0	.10	.44	.43
7	1.6	2.5	1.4	1.7	1.7	4.1	2.1	67	4.7	.10	.36	21
8	1.1	6.3	1.1	1.6	1.7	3.3	1.9	18	1.8	4.4	.26	13
9	1.0	42	.92	1.4	14	2.7	1.1	3.1	1.2	6.3	.23	16
10	.95	5.3	1.7	1.3	6.7	2.4	1.7	1.9	1.0	1.0	2.0	10
11	.96	2.0	5.9	1.3	2.9	2.2	2.5	18	.96	.44	24	1.8
12	.90	1.5	2.8	1.4	2.3	2.0	1.6	10	.90	.30	2.8	1.1
13	.88	1.5	12	1.3	2.2	3.8	1.5	2.4	.86	.21	1.0	.88
14	.87	1.2	14	1.6	8.3	2.0	1.6	1.7	.83	.18	.63	.69
15	.88	1.0	4.9	1.7	60	2.3	2.3	1.4	4.6	.14	.40	.61
16	.97	.95	175	1.5	41	6.5	1.6	1.3	1.9	.10	.30	.55
17	1.5	.79	18	1.3	14	2.5	1.5	1.3	1.0	.18	.26	.46
18	1.2	.63	7.6	1.5	7.3	1.9	1.5	2.1	.86	18	.72	.44
19	.98	.57	4.9	13	5.2	1.8	1.6	4.7	.80	2.3	1.4	10
20	.91	.65	3.5	6.2	3.9	4.5	2.4	1.4	.78	14	.41	2.0
21	.86	.56	2.9	3.5	3.1	4.0	3.4	15	.91	2.0	.24	.93
22	.88	.58	2.7	2.9	3.0	2.3	1.9	15	.98	11	.18	.72
23	.85	1.0	3.8	2.7	2.6	2.0	1.8	2.9	1.0	4.0	2.1	.52
24	2.1	.46	1.8	2.6	2.3	1.8	2.2	3.7	.88	1.6	.78	9.2
25	1.2	38	2.1	2.2	50	1.7	1.5	1.7	.41	1.2	.42	1.5
26	.84	11	2.4	2.3	6.4	1.6	1.5	4.1	.31	7.5	5.8	.91
27	.81	3.5	1.4	2.3	4.0	1.5	1.6	16	.28	1.4	2.0	.70
28	.79	2.3	1.4	1.9	3.2	1.5	1.9	2.4	.25	2.8	.74	.57
29	.77	1.9	1.3	8.9	---	1.6	1.9	1.6	.30	2.3	.40	.53
30	.79	1.7	1.2	11	---	4.8	2.0	1.4	.24	1.1	.30	.49
31	.79	---	1.2	5.4	---	3.1	---	2.7	---	.80	1.5	---
TOTAL	73.18	138.49	285.42	91.0	259.6	141.4	73.5	223.6	43.35	84.39	59.27	120.36
MEAN	2.36	4.62	9.21	2.94	9.27	4.56	2.45	7.21	1.44	2.72	1.91	4.01
MAX	29	42	175	13	60	48	13	67	5.0	18	24	21
MIN	.77	.46	.92	1.0	1.7	1.5	1.1	1.3	.24	.10	.18	.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	2.49	3.21	8.89	7.02	13.7	8.37	7.35	5.11	6.03	1.84	2.39	3.17
MAX	2.62	4.62	9.21	11.1	21.5	11.0	12.0	7.21	12.3	2.72	4.77	5.18
(WY)	2000	2001	2001	2000	2000	1999	1999	2001	1999	2001	2000	2000
MIN	2.36	1.80	8.57	2.94	9.27	4.56	2.45	3.40	1.45	.80	.47	.31
(WY)	2001	2000	2000	2001	2001	2001	2001	2000	2001	1999	1999	1999

03298135 CHENOWETH RUN AT RUCKRIEGAL PARKWAY NEAR JEFFERSONTOWN, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	2590.11		1593.56			
ANNUAL MEAN	7.08		4.37		5.59	
HIGHEST ANNUAL MEAN					6.81	2000
LOWEST ANNUAL MEAN					4.37	2001
HIGHEST DAILY MEAN	402	Feb 18	175	Dec 16	402	Feb 18 2000
LOWEST DAILY MEAN	.02	Jul 17	.10	Jul 6	.02	Jul 17 2000
ANNUAL SEVEN-DAY MINIMUM	.03	Jul 21	.16	Jul 1	.03	Jul 21 2000
MAXIMUM PEAK FLOW			602	Dec 16	4680	Mar 1 1997
MAXIMUM PEAK STAGE			4.40	Dec 16	9.33	Mar 1 1997
10 PERCENT EXCEEDS	13		9.5		11	
50 PERCENT EXCEEDS	1.5		1.7		1.7	
90 PERCENT EXCEEDS	.09		.45		.20	



03298150 CHENOWETH RUN AT GELHAUS LANE NEAR FERN CREEK, KY

LOCATION.--Lat 38°09'36", long 83°32'32", Jefferson County, Hydrologic Unit 05140102, at bridge on Gelhaus Lane, 100 ft above Razor Branch, near Fern Creek, and at mile 2.3.

DRAINAGE AREA.--11.6 mi^2.

PERIOD OF RECORD.--January 1996 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Records good. Diversions by a package treatment plant about 2.0 miles upstream.

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	0840	*1,180	*7.68	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

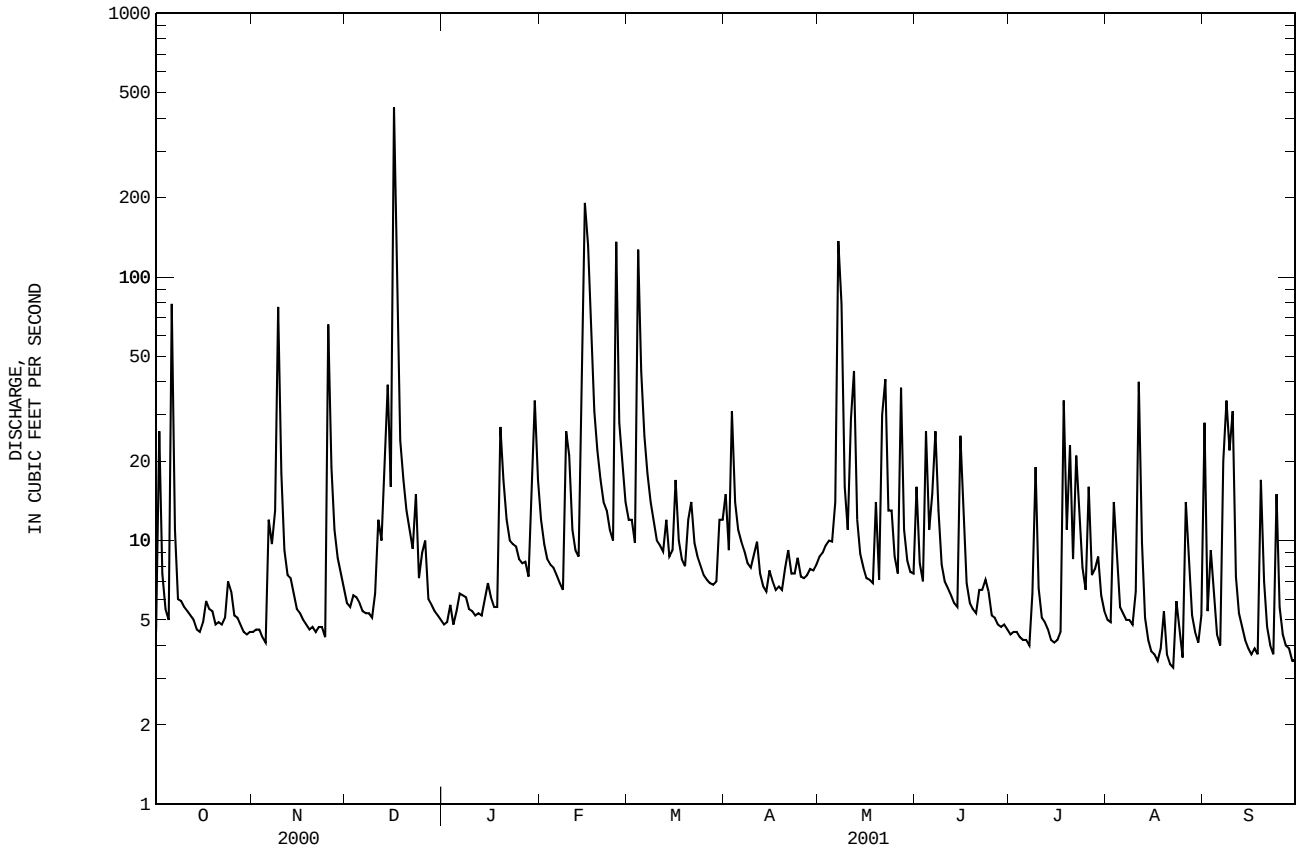
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	4.5	5.8	4.8	12	12	15	8.7	16	4.4	5.0	28
2	26	4.6	5.6	4.9	9.7	12	9.2	9.0	8.2	4.5	4.9	5.4
3	7.5	4.6	6.2	5.7	8.5	9.8	31	9.6	7.0	4.5	14	9.2
4	5.5	4.3	6.1	4.8	8.1	127	14	10	26	4.3	8.6	6.2
5	5.0	4.1	5.8	5.4	7.9	44	11	9.9	11	4.2	5.6	4.4
6	79	12	5.4	6.3	7.4	25	9.9	14	15	4.2	5.3	4.0
7	11	9.7	5.3	6.2	6.9	18	9.1	137	26	4.0	5.0	20
8	6.0	13	5.3	6.1	6.5	14	8.2	79	13	6.3	5.0	34
9	5.9	77	5.1	5.5	26	12	7.9	16	8.1	19	4.8	22
10	5.6	18	6.3	5.4	21	10	8.8	11	7.0	6.6	6.4	31
11	5.4	9.2	12	5.2	11	9.6	9.9	29	6.6	5.1	40	7.3
12	5.2	7.4	10	5.3	9.2	9.1	7.5	44	6.2	4.9	9.8	5.3
13	5.0	7.2	21	5.2	8.7	12	6.7	12	5.8	4.6	5.1	4.7
14	4.6	6.3	39	6.0	22	8.7	6.4	8.9	5.6	4.2	4.2	4.2
15	4.5	5.5	16	6.9	191	9.2	7.7	7.9	25	4.1	3.8	3.9
16	4.9	5.3	440	6.1	132	17	7.0	7.2	13	4.2	3.7	3.7
17	5.9	5.0	68	5.6	56	10	6.5	7.1	6.9	4.5	3.5	3.9
18	5.5	4.8	24	5.6	31	8.5	6.7	6.9	5.8	34	3.9	3.7
19	5.4	4.6	17	27	22	8.0	6.5	14	5.5	11	5.4	17
20	4.8	4.7	13	17	17	12	7.9	7.1	5.3	23	3.7	7.0
21	4.9	4.5	11	12	14	14	9.2	30	6.5	8.5	3.4	4.7
22	4.8	4.7	9.3	10	13	9.8	7.5	41	6.5	21	3.3	4.0
23	5.1	4.7	15	9.7	11	8.7	7.5	13	7.1	13	5.9	3.7
24	7.0	4.3	7.2	9.5	10	8.0	8.6	13	6.4	7.9	4.6	15
25	6.4	66	9.0	8.5	136	7.4	7.3	8.7	5.2	6.5	3.6	5.6
26	5.2	19	10	8.2	28	7.1	7.2	7.5	5.1	16	14	4.4
27	5.1	11	6.0	8.3	19	6.9	7.4	38	4.8	7.4	8.7	4.0
28	4.8	8.6	5.7	7.3	14	6.8	7.8	11	4.7	7.8	5.2	3.9
29	4.5	7.6	5.4	17	---	7.0	7.7	8.4	4.8	8.7	4.5	3.5
30	4.4	6.6	5.2	34	---	12	8.1	7.6	4.6	6.2	4.1	3.5
31	4.5	---	5.0	17	---	12	---	7.5	---	5.4	5.2	---
TOTAL	263.9	348.8	805.7	286.5	858.9	487.6	275.2	634.0	278.7	270.0	210.2	277.2
MEAN	8.51	11.6	26.0	9.24	30.7	15.7	9.17	20.5	9.29	8.71	6.78	9.24
MAX	79	77	440	34	191	127	31	137	26	34	40	34
MIN	4.4	4.1	5.0	4.8	6.5	6.8	6.4	6.9	4.6	4.0	3.3	3.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	7.25	10.7	25.1	32.7	34.6	45.7	24.7	20.7	32.6	10.3	9.61	10.7
MAX	9.63	14.5	44.3	54.1	54.3	119	40.0	28.9	73.4	20.2	17.4	22.4
(WY)	1999	1997	1997	1999	2000	1997	1998	1997	1997	1998	2000	2000
MIN	3.81	7.23	15.6	9.24	27.2	15.7	9.17	11.3	9.29	5.56	4.76	3.73
(WY)	1998	2000	1999	2001	1997	2001	2001	1999	2001	1997	1999	1999

03298150 CHENOWETH RUN AT GELHAUS LANE NEAR FERN CREEK, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL TOTAL	8278.9		4996.7			
ANNUAL MEAN	22.6		13.7		22.0	
HIGHEST ANNUAL MEAN					32.3	1997
LOWEST ANNUAL MEAN					13.7	2001
HIGHEST DAILY MEAN	905	Feb 18	440	Dec 16	1590	Mar 1 1997
LOWEST DAILY MEAN	1.9	Mar 10	3.3	Aug 22	1.9	Mar 10 2000
ANNUAL SEVEN-DAY MINIMUM	2.3	Mar 4	3.8	Aug 16	2.3	Mar 4 2000
MAXIMUM PEAK FLOW			1180	Dec 16	4810	Mar 2 1997
MAXIMUM PEAK STAGE			7.68	Dec 16	14.72	Mar 2 1997
10 PERCENT EXCEEDS	40		23		40	
50 PERCENT EXCEEDS	9.4		7.3		8.9	
90 PERCENT EXCEEDS	4.5		4.5		4.0	



03298200 FLOYDS FORK AT BARDSTOWN ROAD NEAR MOUNT WASHINGTON, KY

LOCATION.--Lat 38°05'07", long 85°33'18", Jefferson County, Hydrologic Unit 05140102, on right downstream side of bridge on U.S. Highway 31E, 0.2 mi below Old Mans Run, 2.0 mi north of Mount Washington, and 18.7 miles above the mouth.

DRAINAGE AREA.--213 mi^2.

PERIOD OF RECORD.--November 2000 to current year.

GAGE.--Water-stage recorder.

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

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	e46	68	e57	e400	250	124	19	642	13	23	e19
2	---	e46	58	e52	e270	225	123	18	297	12	18	e12
3	---	e48	55	e48	e210	196	216	17	481	11	21	e5.0
4	---	e43	46	e45	e170	1330	285	16	290	10	20	e4.8
5	---	e41	40	e41	e150	1750	196	15	466	10	17	e4.6
6	---	e41	e32	e39	e140	549	163	15	303	10	15	e4.2
7	---	e83	e28	e36	e130	378	143	105	384	9.6	13	e3.8
8	---	e5.0	e27	e34	e120	302	125	661	295	9.5	12	e3.8
9	---	271	e26	e32	e170	249	112	214	167	22	11	e11
10	---	356	e25	e29	e660	207	111	104	110	32	11	e28
11	---	188	e35	e28	e370	180	655	343	79	22	27	e51
12	---	103	e61	e26	e250	160	217	529	61	17	99	e19
13	---	74	e80	e25	e210	164	137	191	45	15	40	e5.7
14	---	60	e350	e23	e220	143	101	109	34	13	20	e4.8
15	---	47	e340	e22	e1900	127	91	78	38	11	15	e4.3
16	---	36	e5800	e20	e2000	158	84	60	70	10	13	e3.7
17	---	29	e2000	e20	e1700	162	71	44	41	9.8	11	e3.3
18	---	25	e900	e22	e690	136	64	37	26	857	10	e3.4
19	---	23	e620	e180	e450	117	56	273	20	259	12	e3.7
20	---	21	e390	e280	e360	112	54	272	18	94	12	e24
21	---	19	e290	e330	e270	154	58	285	17	130	11	e13
22	---	18	e220	e210	232	160	49	390	48	53	9.8	e5.2
23	---	17	e180	e150	208	143	42	283	30	84	9.0	e4.1
24	---	17	e160	e130	182	124	39	175	35	41	e9.0	e19
25	---	210	e130	e120	1760	109	33	127	27	23	e10	e34
26	---	385	e110	e110	707	98	28	93	21	81	e9.4	e17
27	---	236	e98	e100	397	90	25	199	18	300	e66	e8.6
28	---	149	e87	e96	308	84	23	202	16	113	e41	e4.5
29	---	105	e78	e100	---	83	21	122	15	87	e14	e3.5
30	---	82	e70	e770	---	84	20	82	14	66	e6.8	e3.0
31	---	---	e63	e620	---	117	---	73	---	37	e5.8	---
TOTAL	---	2824.0	12467	3795	14634	8141	3466	5151	4108	2461.9	611.8	331.0
MEAN	---	94.1	402	122	523	263	116	166	137	79.4	19.7	11.0
MAX	---	385	5800	770	2000	1750	655	661	642	857	99	51
MIN	---	5.0	25	20	120	83	20	15	14	9.5	5.8	3.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2001, BY WATER YEAR (WY)

MEAN	---	94.1	402	122	523	263	116	166	137	79.4	19.7	11.0
MAX	---	94.1	402	122	523	263	116	166	137	79.4	19.7	11.0
(WY)	---	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
MIN	---	94.1	402	122	523	263	116	166	137	79.4	19.7	11.0
(WY)	---	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

03298200 FLOYDS FORK AT BARDSTOWN ROAD NEAR MOUNT WASHINGTON, KY--Continued

SUMMARY STATISTICS	FOR 2001 WATER YEAR	
HIGHEST DAILY MEAN	5800	Dec 16
LOWEST DAILY MEAN	3.0	Sep 30
ANNUAL SEVEN-DAY MINIMUM	4.1	Sep 13
MAXIMUM PEAK FLOW	11300	Dec 16
MAXIMUM PEAK STAGE	17.80	Dec 16
10 PERCENT EXCEEDS	358	
50 PERCENT EXCEEDS	64	
90 PERCENT EXCEEDS	10	

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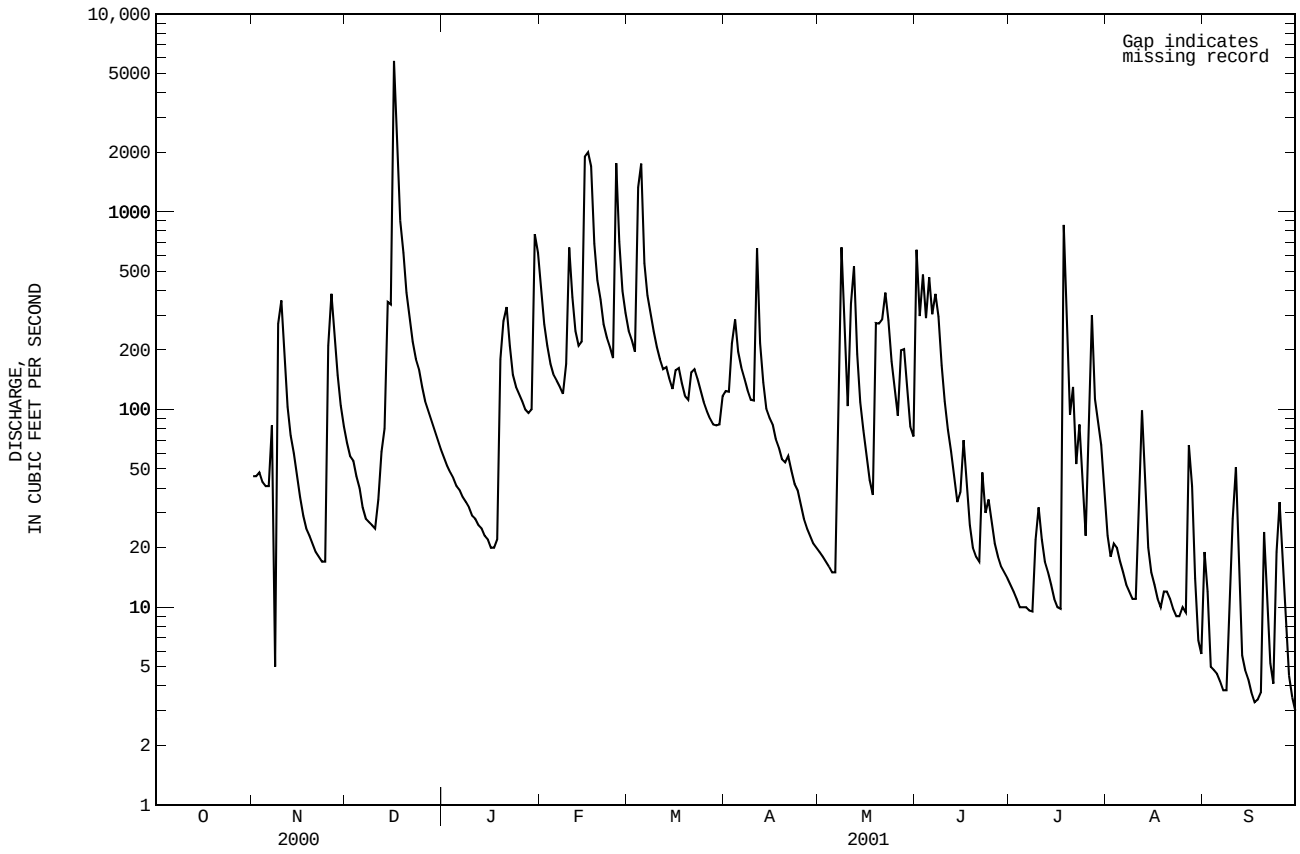

03298250 CEDAR CREEK AT THIXTON ROAD NEAR LOUISVILLE, KY

LOCATION.--Lat 38°04'45", long 85°36'58", Jefferson County, Hydrologic Unit 05140102, at downstream side of culvert on Thixton Road, 4.2 mi above Pennsylvania Run, and at mile 7.4.

DRAINAGE AREA.--11.1 mi^2.

PERIOD OF RECORD.--January 1999 to current year.

GAGE.--Water-stage recorder.

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

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	3.8	4.5	5.4	e12	e19	13	6.1	3.5	1.4	3.0	3.4
2	3.8	4.1	4.2	e5.4	e11	e17	10	6.1	2.8	1.6	2.8	2.8
3	3.4	3.7	4.5	e5.4	e9.6	e16	24	5.8	2.4	1.3	3.1	2.7
4	3.4	3.5	4.8	5.5	e8.7	e71	19	5.5	3.5	1.8	3.1	2.8
5	3.3	3.8	e4.2	5.8	e7.8	e45	15	5.3	3.5	1.5	3.0	2.4
6	12	4.1	e3.8	6.3	e7.3	e32	14	5.0	2.6	1.2	2.9	2.3
7	4.8	5.7	e3.5	6.4	e6.8	23	e13	17	3.9	1.2	2.7	2.2
8	4.0	4.5	e3.3	6.6	e6.5	18	e12.5	47	3.3	1.3	2.6	4.1
9	3.8	70	e3.1	6.0	e18	15	e12	8.2	2.9	1.7	2.5	3.6
10	3.7	25	e3.8	5.6	e17	12	e11	6.0	2.4	1.8	3.1	15
11	3.7	7.0	e4.7	5.6	e13	11	e12	38	2.1	1.6	3.1	4.2
12	3.5	5.7	e4.3	5.6	e11	9.9	e11	49	1.7	1.5	4.6	3.1
13	3.4	5.5	e9.2	5.7	e10	12	e10	7.0	1.7	1.4	3.3	2.7
14	3.1	4.3	e32	6.0	e22	9.3	e9.2	4.5	1.4	1.2	2.9	2.5
15	3.2	4.1	16	6.5	e98	9.4	9.9	3.7	4.1	1.2	2.7	2.4
16	3.5	3.9	387	6.0	e84	14	8.1	3.2	6.2	1.3	2.4	2.5
17	3.5	3.9	89	e5.6	e58	12	7.8	2.8	2.3	1.2	2.3	2.3
18	3.9	4.0	29	e5.3	e41	9.7	7.1	2.7	1.8	2.2	2.3	2.2
19	3.5	4.0	19	e16	e30	8.9	6.9	6.2	1.6	1.9	2.5	3.4
20	3.3	4.1	14	e13	e21	9.6	6.9	4.0	1.5	47	2.7	3.6
21	3.5	3.8	11	e11	e17	15	6.9	9.3	1.5	6.9	2.3	2.8
22	4.0	3.7	e9.5	e9.8	e15	11	6.5	12	2.2	4.1	2.1	2.6
23	4.1	3.8	e8.4	e9.4	e14	9.6	6.4	6.1	1.5	4.4	2.1	2.4
24	3.8	3.6	7.5	e9.7	e13	8.9	6.5	4.8	1.4	3.3	2.5	3.1
25	3.8	47	e6.9	e8.8	e78	8.7	6.3	4.0	1.3	2.9	2.4	3.0
26	3.9	20	e6.7	e8.7	e30	7.9	6.2	3.3	5.6	9.3	6.5	2.6
27	3.9	8.4	6.4	e8.9	e25	7.6	6.1	6.5	5.5	5.1	7.0	2.2
28	3.7	6.4	6.3	e8.1	e21	7.4	6.0	4.4	2.0	3.8	3.7	1.7
29	3.8	5.6	6.2	e13	---	7.6	6.0	3.2	2.2	4.1	3.4	2.0
30	4.0	5.3	6.6	e22	---	8.2	6.2	2.6	1.5	3.8	2.8	2.4
31	4.0	---	5.6	e15	---	13	---	2.9	---	3.3	2.9	---
TOTAL	123.3	282.3	725.0	258.1	705.7	478.7	295.5	292.2	79.9	126.3	95.3	95.0
MEAN	3.98	9.41	23.4	8.33	25.2	15.4	9.85	9.43	2.66	4.07	3.07	3.17
MAX	12	70	387	22	98	71	24	49	6.2	47	7.0	15
MIN	3.1	3.5	3.1	5.3	6.5	7.4	6.0	2.6	1.3	1.2	2.1	1.7
CFSM	.36	.85	2.11	.75	2.27	1.39	.89	.85	.24	.37	.28	.29
IN.	.41	.95	2.43	.86	2.37	1.60	.99	.98	.27	.42	.32	.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	3.78	6.51	18.0	19.3	33.8	19.2	14.0	7.37	8.40	4.68	3.17	7.05
MAX	3.98	9.41	23.4	30.3	42.2	22.9	18.1	9.43	14.1	5.28	3.27	10.9
(WY)	2001	2001	2001	2000	2000	2000	2000	2001	2000	2000	2000	2000
MIN	3.59	3.60	12.6	8.33	25.2	15.4	9.85	5.31	2.66	4.07	3.07	3.17
(WY)	2000	2000	2000	2001	2001	2001	2001	2000	2001	2001	2001	2001

03298250 CEDAR CREEK AT THIXTON ROAD NEAR LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL TOTAL	5730.4		3557.3			
ANNUAL MEAN	15.7		9.75		12.0	
HIGHEST ANNUAL MEAN					14.2	2000
LOWEST ANNUAL MEAN					9.75	2001
HIGHEST DAILY MEAN	583	Feb 18	387	Dec 16	583	Feb 18 2000
LOWEST DAILY MEAN	1.8	Aug 16	1.2	Jul 6	1.2	Jul 6 2001
ANNUAL SEVEN-DAY MINIMUM	2.2	Aug 11	1.3	Jul 11	1.3	Jul 11 2001
MAXIMUM PEAK FLOW			965	Dec 16	3300	Jun 28 1999
MAXIMUM PEAK STAGE			3.19	Dec 16	6.07	Jun 28 1999
ANNUAL RUNOFF (CFSM)	1.41		.88		1.08	
ANNUAL RUNOFF (INCHES)	19.20		11.92		14.68	
10 PERCENT EXCEEDS	28		17		21	
50 PERCENT EXCEEDS	6.0		4.8		5.5	
90 PERCENT EXCEEDS	2.7		2.2		2.3	

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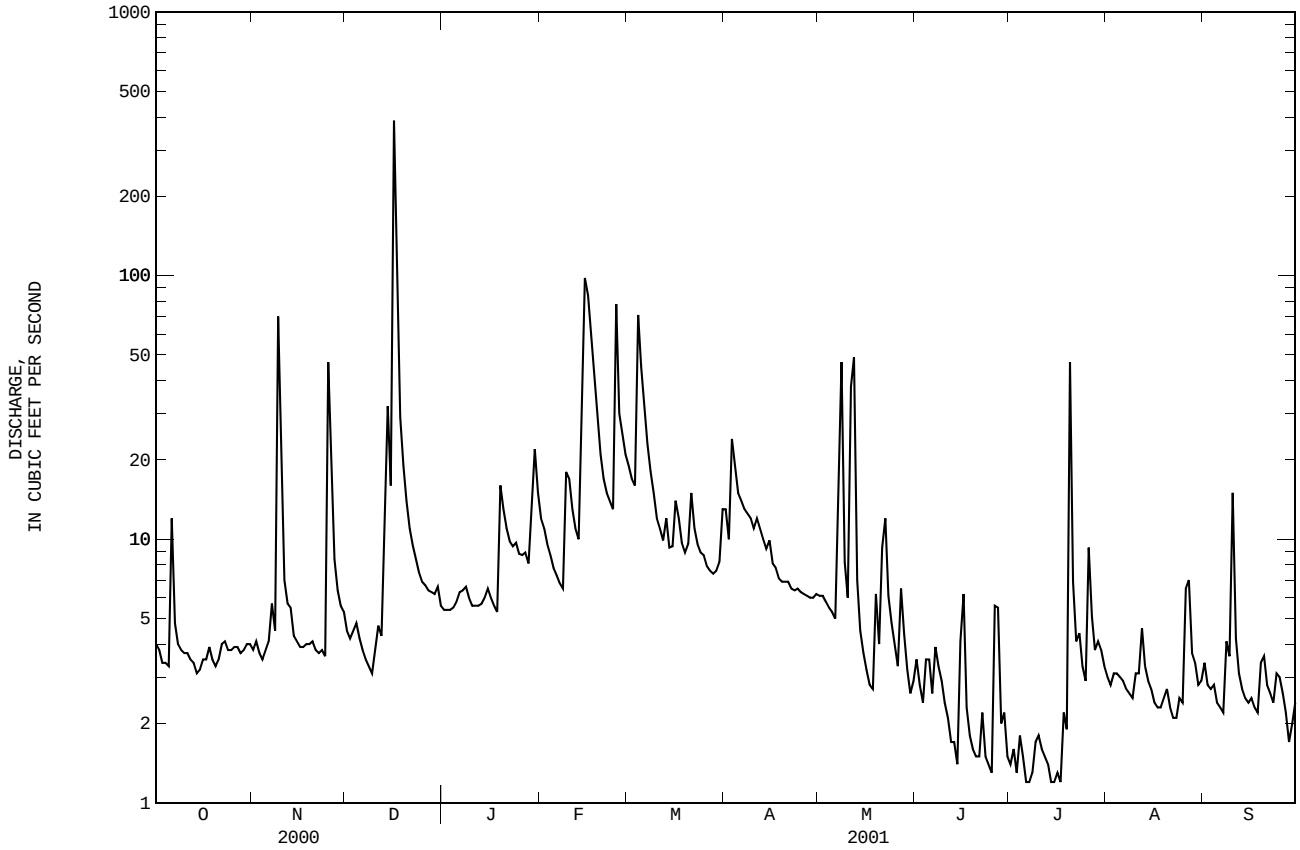

03298300 PENNSYLVANIA RUN AT MOUNT WASHINGTON ROAD NEAR LOUISVILLE, KY

LOCATION.--Lat 38°05'15", long 85°38'33", Jefferson County, Hydrologic Unit 05140102, at bridge on Mt. Washington Road, near Louisville, Ky. and at mile 1.9.

DRAINAGE AREA.--6.4 mi^2.

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 430.38 ft above NGVD of 1929. See WDR KY-90-1 for history of changes prior to Nov. 16, 1962.

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

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	unknown	*361	4.41	May 11	2315	201	3.50

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.51	1.6	.77	1.2	5.3	6.6	3.4	.42	1.7	.50	.39	1.1
2	.43	1.6	.82	1.1	4.0	6.3	2.4	.44	1.2	.50	.41	.40
3	.45	1.6	1.1	1.0	3.1	5.1	7.1	.45	.92	.69	.51	.51
4	.42	1.6	.84	1.1	2.9	44	5.5	.46	1.3	.56	.43	.51
5	.54	1.7	.76	1.2	2.6	27	3.8	.46	1.3	.50	.39	.51
6	1.2	2.4	e.65	1.3	2.2	14	3.3	.46	1.0	.50	.42	.52
7	.73	1.1	e.60	1.4	1.8	10	2.6	3.5	2.5	.50	.42	.85
8	.53	1.1	e.56	1.4	1.8	8.4	2.2	17	2.6	.53	.45	.84
9	.54	15	e.50	1.6	4.4	6.7	1.9	2.9	1.4	.80	.57	2.0
10	.64	9.0	e.80	1.5	11	5.5	1.6	1.1	1.0	.50	.41	1.3
11	.71	2.1	e1.4	1.2	5.7	4.7	1.6	20	.76	.47	.48	.47
12	.66	1.1	e2.1	1.2	4.3	4.0	1.1	49	.57	.49	.42	.48
13	.71	.88	e3.1	1.1	3.9	5.0	.88	9.2	1.2	.50	.39	.51
14	.85	.71	e4.3	1.3	8.3	3.4	.78	4.7	.48	.47	.39	.45
15	.61	.60	e2.6	1.4	49	3.3	1.0	2.9	.89	.48	.40	.47
16	.60	.55	e170	1.2	60	4.6	.92	1.9	1.2	.45	.43	.49
17	.58	.51	e50	1.1	33	3.6	.67	1.4	.56	.43	.50	.49
18	.66	.52	e21	1.1	17	2.7	.59	2.5	.50	1.0	.52	.55
19	1.0	.51	e12	6.4	12	2.2	.55	8.1	.45	.47	.64	1.5
20	1.5	.46	e8.3	7.8	11	2.7	.56	3.4	.50	.59	.58	.47
21	1.5	.43	6.0	5.8	7.9	3.7	.57	7.0	.50	.52	.55	.58
22	1.6	.41	4.4	4.4	6.7	2.9	.57	9.7	1.3	.54	.55	.55
23	1.7	.42	3.4	3.9	5.6	2.3	.55	5.1	.50	1.4	.57	.53
24	1.8	.40	2.8	4.0	4.9	2.1	.59	3.3	.47	.40	.63	.86
25	1.8	11	2.2	3.4	45	1.8	.49	2.1	.44	.36	.64	.51
26	1.9	6.7	1.9	3.0	15	1.5	.46	1.6	.47	3.9	1.5	.50
27	2.0	3.1	1.8	2.9	10	1.5	.44	4.0	.49	.62	.61	.47
28	2.5	1.7	1.7	2.4	8.1	1.4	.44	2.3	.48	.47	.48	.46
29	2.6	1.2	1.5	3.4	---	1.6	.43	1.4	.50	.47	.51	.51
30	2.3	.89	1.5	11	---	2.3	.42	.94	.49	.40	.55	.56
31	1.7	---	1.3	7.4	---	3.1	---	.78	---	.38	.67	---
TOTAL	35.27	70.89	310.70	88.2	346.5	194.0	47.41	168.51	27.67	20.39	16.41	19.95
MEAN	1.14	2.36	10.0	2.85	12.4	6.26	1.58	5.44	.92	.66	.53	.67
MAX	2.6	15	170	11	60	44	7.1	49	2.6	3.9	1.5	2.0
MIN	.42	.40	.50	1.0	1.8	1.4	.42	.42	.44	.36	.39	.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	1.14	1.78	6.58	12.9	16.2	10.2	6.68	3.89	6.88	1.20	.50	1.55
MAX	1.61	2.51	10.0	21.5	24.7	13.7	11.1	5.44	14.9	1.51	.63	3.19
(WY)	1999	1999	2001	1999	2000	1999	1999	2001	1999	2000	2000	2000
MIN	.66	.45	4.34	2.85	11.2	6.26	1.58	.94	.92	.66	.34	.67
(WY)	2000	2000	2000	2001	1999	2001	2001	2000	2001	2001	1999	2001

03298300 PENNSYLVANIA RUN AT MOUNT WASHINGTON ROAD NEAR LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	2470.42		1345.90			
ANNUAL MEAN	6.75		3.69		5.74	
HIGHEST ANNUAL MEAN					7.45	1999
LOWEST ANNUAL MEAN					3.69	2001
HIGHEST DAILY MEAN	353	Feb 18	170	Dec 16	353	Feb 18 2000
LOWEST DAILY MEAN	.36	Jul 24	.36	Jul 25	.20	Aug 22 1999
ANNUAL SEVEN-DAY MINIMUM	.38	Jul 21	.42	Jul 30	.22	Nov 28 1999
MAXIMUM PEAK FLOW			361	Dec 16	1540	Jun 28 1999
MAXIMUM PEAK STAGE			4.41	Dec 16	8.22	Jun 28 1999
10 PERCENT EXCEEDS	12		7.0		11	
50 PERCENT EXCEEDS	1.5		1.1		1.6	
90 PERCENT EXCEEDS	.45		.45		.41	

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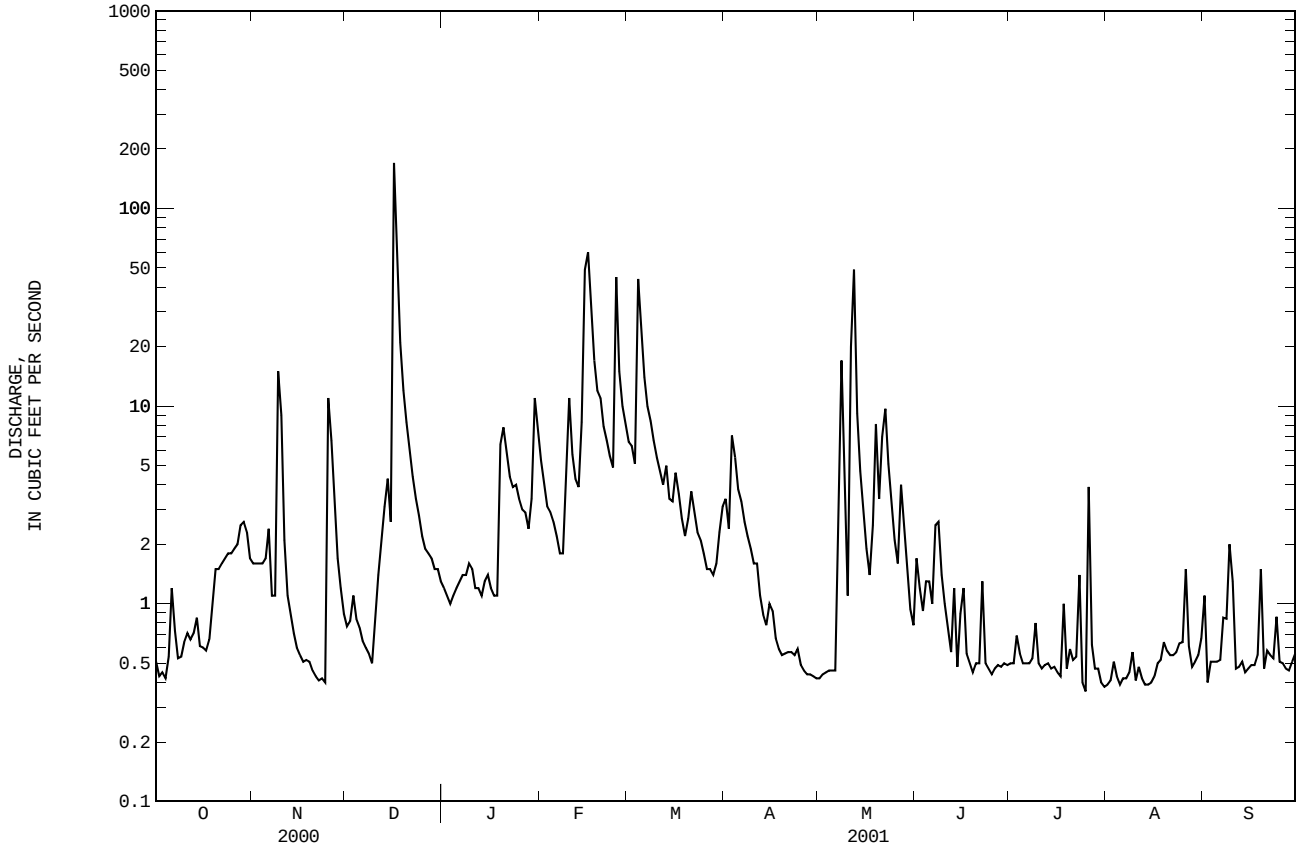

03298500 SALT RIVER AT SHEPHERDSVILLE, KY

LOCATION.--Lat 37°59'06", long 85°43'03", Bullitt County, Hydrologic Unit 05140102, on downstream side of bridge on State Highway 61 at Shepherdsville, 500 ft downstream from Louisville and Nashville Railroad bridge, 2.6 mi downstream from Floyds Fork, and at mile 22.9.

DRAINAGE AREA.--1,197 mi^2.

PERIOD OF RECORD.--May 1938 to current year.

REVISED RECORDS.--WSP 893: 1937(M). WSP 1435: 1955: WSP 1705: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 406.58 ft above NGVD of 1929. See WDR KY-90-1 for history of changes prior to Oct. 16, 1969.

REMARKS.--Records fair except for those estimated, which are poor. Flow regulated since January 1983 by Taylorsville Lake (station 03295597). Diversions for water supply by Shepherdsville and other municipalities.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 26, 1937, reached a stage of 47.3 ft, from floodmark (backwater from Ohio River).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	680	57	274	262	2000	1360	619	109	1060	48	253	42
2	411	55	241	e200	1460	1020	671	107	1010	43	228	50
3	149	54	229	e149	1200	892	757	105	807	42	228	46
4	117	52	218	e151	778	3400	1110	102	635	53	225	43
5	101	51	203	e156	672	7280	1370	101	723	47	214	39
6	98	50	180	e160	611	3810	1330	103	742	43	201	34
7	123	61	135	e168	548	3180	1300	126	696	57	343	28
8	101	205	124	e171	490	3330	951	768	1590	50	588	257
9	75	482	108	e178	449	3070	810	556	1360	47	394	398
10	68	663	104	e182	1220	2820	774	243	1240	52	248	160
11	66	499	107	e189	1380	2260	1300	174	810	64	192	114
12	61	374	114	e198	1080	1630	1360	1470	318	55	350	79
13	56	272	157	e204	1900	1170	926	603	172	47	291	57
14	54	189	515	e214	1470	974	737	348	138	42	184	44
15	53	145	859	e229	4710	714	517	228	116	37	146	38
16	52	390	8030	e240	9140	748	416	172	126	30	89	35
17	49	660	15600	e261	9410	739	354	136	125	27	54	32
18	50	642	5180	336	4560	634	305	113	99	177	40	31
19	52	627	3490	573	3760	547	267	118	85	847	38	36
20	51	615	3120	1280	3760	503	243	915	78	330	31	46
21	50	602	2920	1180	4220	571	230	535	66	257	27	48
22	51	594	2670	917	4060	640	215	1630	76	190	24	40
23	49	440	2500	1320	3900	635	201	1640	98	135	26	35
24	46	318	2580	1960	2780	582	194	2330	85	186	26	34
25	43	348	2390	1840	4110	526	181	2180	82	228	21	35
26	41	604	2310	790	4040	468	164	1080	72	248	29	38
27	54	568	2330	682	3020	495	147	599	83	523	129	37
28	61	469	2240	611	2540	772	134	564	71	517	86	34
29	59	357	1590	581	---	844	122	505	61	403	84	27
30	57	322	810	1530	---	637	116	394	54	342	64	22
31	56	---	401	2030	---	581	---	311	---	294	52	---
TOTAL	3034	10765	61729	18942	79268	46832	17821	18365	12678	5461	4905	1959
MEAN	97.9	359	1991	611	2831	1511	594	592	423	176	158	65.3
MAX	680	663	15600	2030	9410	7280	1370	2330	1590	847	588	398
MIN	41	50	104	149	449	468	116	101	54	27	21	22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2001, BY WATER YEAR (WY)

MEAN	237	877	1909	2528	3782	3264	1994	1769	1435	527	258	191
MAX	1166	2206	6329	5728	12370	11410	3506	5768	5192	1976	1018	583
(WY)	1991	1994	1991	1991	1989	1997	1989	1995	1997	1998	1992	1996
MIN	25.9	48.1	258	335	996	1113	377	201	38.9	63.6	36.5	30.6
(WY)	1989	2000	1990	1986	1992	1990	1986	2000	1988	1994	1999	1999

03298500 SALT RIVER AT SHEPHERDSVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1984 - 2001	
ANNUAL TOTAL	430540		281759			
ANNUAL MEAN	1176		772		1552	
HIGHEST ANNUAL MEAN					2809	1997
LOWEST ANNUAL MEAN					772	2001
HIGHEST DAILY MEAN	33000	Feb 19	15600	Dec 17	65600	Mar 2 1997
LOWEST DAILY MEAN	30	Jul 27	21	Aug 25	7.7	Jul 1 1988
ANNUAL SEVEN-DAY MINIMUM	46	Jul 21	26	Aug 20	9.3	Jun 26 1988
MAXIMUM PEAK FLOW			18500	Dec 17	78200	Mar 10 1964
MAXIMUM PEAK STAGE			17.45	Dec 17	41.50	Mar 11 1964
10 PERCENT EXCEEDS	3120		2200		4010	
50 PERCENT EXCEEDS	235		243		478	
90 PERCENT EXCEEDS	55		43		45	

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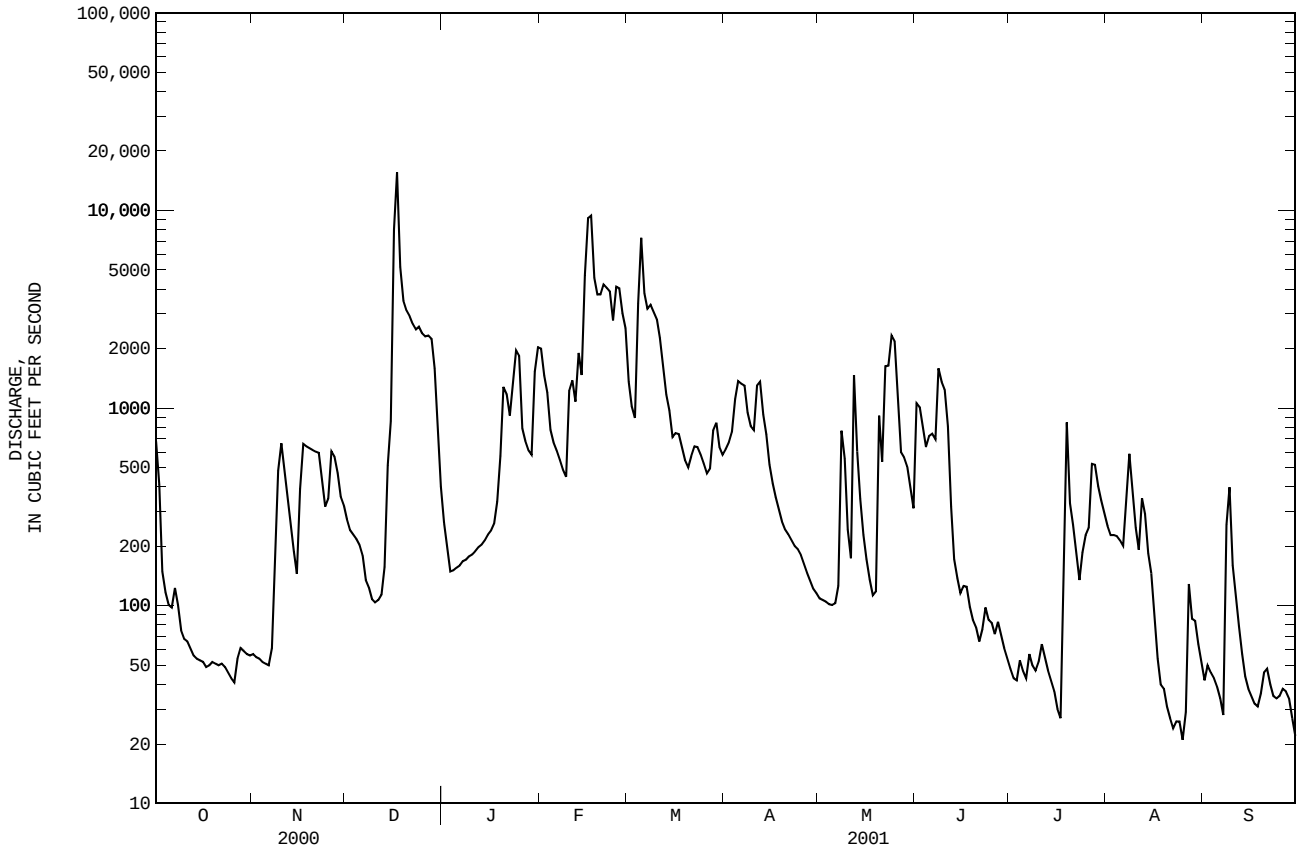


03298550 LONG LICK AT CLERMONT, KY

LOCATION.--Lat 37°55'40", long 85°39'13", Bullitt County, Hydrologic Unit 05140102, downstream side of bridge at Jim Beam Distillery, at Clermont, and 10.8 mi upstream from mouth.

DRAINAGE AREA.-- 7.91 mi^2.

PERIOD OF RECORD.--April 1, 1992 to current year.

GAGE.--Water-stage recorder. Datum of gage is 450 ft above NGVD of 1929.

REMARKS.--Records fair except for those estimated, which are poor. Slight regulation from Jim Beam Distillery.

COOPERATION.--Bullitt County.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)

No peak greater than base discharge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.54	.72	1.4	.09	2.8	5.8	2.7	1.1	.13	.01	.13	.36
2	.34	.58	1.4	.10	1.7	5.2	1.1	1.2	.27	.01	.15	.11
3	.34	.05	1.4	.11	1.2	3.1	13	.64	.19	.03	.14	.20
4	.24	.03	.85	.17	1.6	128	12	.48	.08	.08	.14	.18
5	.18	.02	.13	.08	.80	44	6.2	.53	.03	.09	.14	.66
6	.46	.22	.11	.09	.72	18	4.8	.58	.03	.03	.03	.88
7	.83	.26	.71	.10	.54	11	5.1	1.1	.12	.02	.15	.95
8	.56	1.1	1.3	.08	.48	7.8	3.9	6.8	.06	.01	.20	.94
9	.30	1.7	1.3	.03	4.2	6.5	1.9	.38	.11	.01	.26	1.0
10	.04	1.3	1.4	.04	24	5.2	2.4	.40	.11	.01	.15	.46
11	.07	1.2	1.1	.04	7.0	4.5	1.9	.51	.05	.01	.55	.52
12	.06	1.2	1.3	.06	2.8	3.0	1.6	.50	.03	.01	.16	.51
13	.40	.98	2.1	.08	1.6	2.8	1.3	.47	.02	.01	.03	.68
14	.16	1.1	3.3	.14	34	2.2	1.2	.35	.02	.01	.14	.71
15	.24	1.1	1.3	.21	103	2.8	1.5	.29	.05	.01	.31	.69
16	.14	1.2	139	.10	143	9.3	.63	.28	.03	.01	.18	.50
17	.03	1.2	e31	.11	53	8.8	.61	.32	.03	.01	.52	.14
18	.35	1.0	e5.8	.27	21	4.1	.33	.43	.02	.04	.63	.14
19	.87	.97	e2.3	5.9	11	3.5	.61	.47	.02	.03	.29	.61
20	.22	.88	e1.2	6.1	7.8	3.8	.63	.52	.02	.03	.10	.43
21	.06	.83	e.62	e1.7	5.6	5.4	.97	5.0	.01	.03	.52	.33
22	.05	.87	e.50	e.62	4.7	5.0	.74	24	.01	.02	.55	.42
23	.05	1.3	e.39	.92	3.7	3.8	.68	3.6	.02	.03	.64	.52
24	.15	1.3	e.23	1.4	4.5	4.2	1.0	1.2	.02	.07	.68	.40
25	.68	2.2	e.18	1.5	71	3.0	1.0	.58	.01	.06	.59	.13
26	.14	2.1	e.14	1.3	20	1.1	1.1	.15	.01	.26	.67	.26
27	.40	1.7	e.08	1.0	11	1.4	.93	.48	.02	.03	.25	.16
28	.86	1.2	e.08	1.2	8.1	1.5	.90	.17	.05	.13	.37	.22
29	.80	1.2	e.07	1.2	---	1.5	.55	.02	.02	.08	.31	.57
30	.87	1.5	e.06	23	---	1.7	.75	.02	.02	.03	.37	.33
31	.76	---	e.05	7.6	---	2.7	---	.07	---	.13	.61	---
TOTAL	11.19	31.01	200.80	55.34	550.84	310.7	72.03	52.64	1.61	1.34	9.96	14.01
MEAN	.36	1.03	6.48	1.79	19.7	10.0	2.40	1.70	.054	.043	.32	.47
MAX	.87	2.2	139	23	143	128	13	24	.27	.26	.68	1.0
MIN	.03	.02	.05	.03	.48	1.1	.33	.02	.01	.01	.03	.11

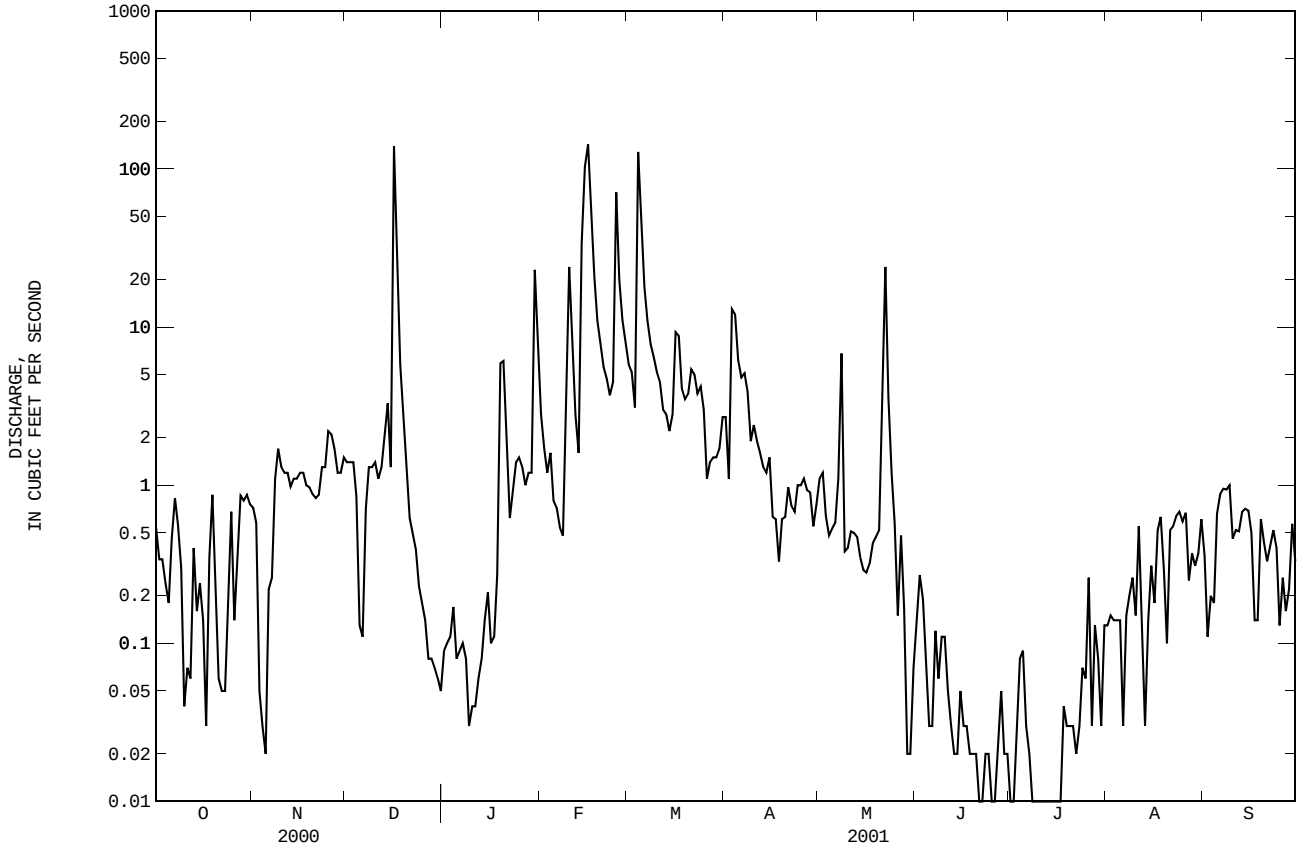
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2001, BY WATER YEAR (WY)

MEAN	1.57	2.60	6.05	17.0	18.0	29.6	17.9	16.3	9.60	.93	1.38	.66
MAX	4.92	9.13	16.3	29.2	27.7	101	42.2	47.2	35.0	3.02	9.21	1.69
(WY)	1996	1994	1997	1996	2000	1997	1998	1995	1997	1992	1995	1992
MIN	.098	.68	.83	1.79	10.2	10.0	2.40	1.34	.054	.044	.057	.12
(WY)	1998	1995	1999	2001	1996	2001	2001	2000	2001	2001	1998	1998

03298550 LONG LICK AT CLERMONT, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1992 - 2001	
ANNUAL TOTAL	2660.87		1311.47			
ANNUAL MEAN	7.27		3.59		10.3	
HIGHEST ANNUAL MEAN					19.1	1997
LOWEST ANNUAL MEAN					3.59	2001
HIGHEST DAILY MEAN	323	Feb 18	143	Feb 16	680	Mar 1 1997
LOWEST DAILY MEAN	.01	Jul 11	.01	Jun 21	.01	May 30 1999
ANNUAL SEVEN-DAY MINIMUM	.03	Jul 14	.01	Jul 8	.01	Aug 20 1999
MAXIMUM PEAK FLOW			323	Mar 4	2790	Mar 1 1997
MAXIMUM PEAK STAGE			4.09	Mar 4	11.38	Mar 1 1997
10 PERCENT EXCEEDS	7.7		5.3		21	
50 PERCENT EXCEEDS	.97		.53		1.3	
90 PERCENT EXCEEDS	.06		.03		.10	

e Estimated



03300400 BEECH FORK AT MAUD, KY

LOCATION.--Lat 37°49'58", long 85°17'46", Nelson County, Hydrologic Unit 05140103, on right bank on downstream side of bridge on State Highway 55, 100 ft upstream from Nealy Run, 0.8 mi north of Maud, 1.7 mi downstream from Chaplin River, and at mile 48.1.

DRAINAGE AREA.--436 mi^2.

PERIOD OF RECORD.--August 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 530.00 ft above NGVD of 1929.

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

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 17	1300	*15,300	*19.75	Feb 17	0730	8310	16.37

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	6.3	39	e210	615	484	259	38	74	8.8	162	3.1
2	31	5.4	35	e200	451	411	525	34	65	8.9	99	2.6
3	21	5.1	34	e190	368	360	565	31	60	11	66	2.2
4	16	4.2	31	e180	319	2180	1400	27	79	14	600	2.3
5	12	4.0	28	e170	287	5650	813	24	112	11	337	2.3
6	9.4	4.7	26	e160	261	1830	548	22	103	9.0	210	2.0
7	7.0	5.5	25	e150	236	912	446	20	297	9.5	121	1.7
8	5.7	7.1	25	127	213	650	374	33	681	9.4	70	1.6
9	4.6	e119	24	118	200	516	320	66	455	8.3	43	1.5
10	3.9	e442	25	115	509	423	283	75	243	7.1	28	1.6
11	3.3	268	27	113	877	359	254	74	158	6.2	52	1.5
12	2.4	148	32	105	560	317	225	57	114	5.2	248	1.5
13	2.0	92	42	98	417	298	199	45	85	4.8	466	1.3
14	2.2	64	774	97	464	283	177	41	66	4.2	242	1.2
15	2.5	47	942	102	4800	268	165	39	52	4.1	127	1.2
16	2.4	37	4050	118	6160	264	156	32	44	3.7	75	1.1
17	2.6	33	e13300	128	6860	256	146	26	34	3.6	47	1.1
18	2.6	30	3640	131	2400	250	136	23	28	4.8	31	1.2
19	2.5	26	873	442	1070	239	122	466	22	28	24	1.0
20	1.5	23	e500	1920	741	238	112	1390	19	66	17	1.1
21	1.5	20	e350	e1100	563	1090	106	954	17	638	12	1.0
22	2.0	16	e300	e540	454	1270	100	2440	18	167	9.2	1.0
23	2.0	14	e270	e400	393	781	93	1300	15	79	6.1	1.0
24	1.9	13	e240	e380	349	564	87	536	14	54	4.4	1.0
25	6.8	21	e220	e360	1470	449	78	415	13	36	3.9	1.0
26	33	42	e210	e340	2110	371	67	285	12	482	3.2	e.90
27	21	66	e200	e320	918	321	59	205	10	741	3.5	e.80
28	12	59	e190	e310	613	287	53	163	9.5	237	3.6	e.70
29	7.9	55	e190	302	---	263	46	131	10	203	3.4	e.60
30	6.7	47	e200	630	---	246	41	104	9.1	303	3.1	e.50
31	8.1	---	e210	885	---	234	---	84	---	241	3.1	---
TOTAL	281.5	1724.3	27052	10441	34678	22064	7955	9180	2918.6	3408.6	3120.5	41.60
MEAN	9.08	57.5	873	337	1238	712	265	296	97.3	110	101	1.39
MAX	44	442	13300	1920	6860	5650	1400	2440	681	741	600	3.1
MIN	1.5	4.0	24	97	200	234	41	20	9.1	3.6	3.1	.50
CFSM	.02	.13	2.00	.77	2.84	1.63	.61	.68	.22	.25	.23	.00
IN.	.02	.15	2.31	.89	2.96	1.88	.68	.78	.25	.29	.27	.00

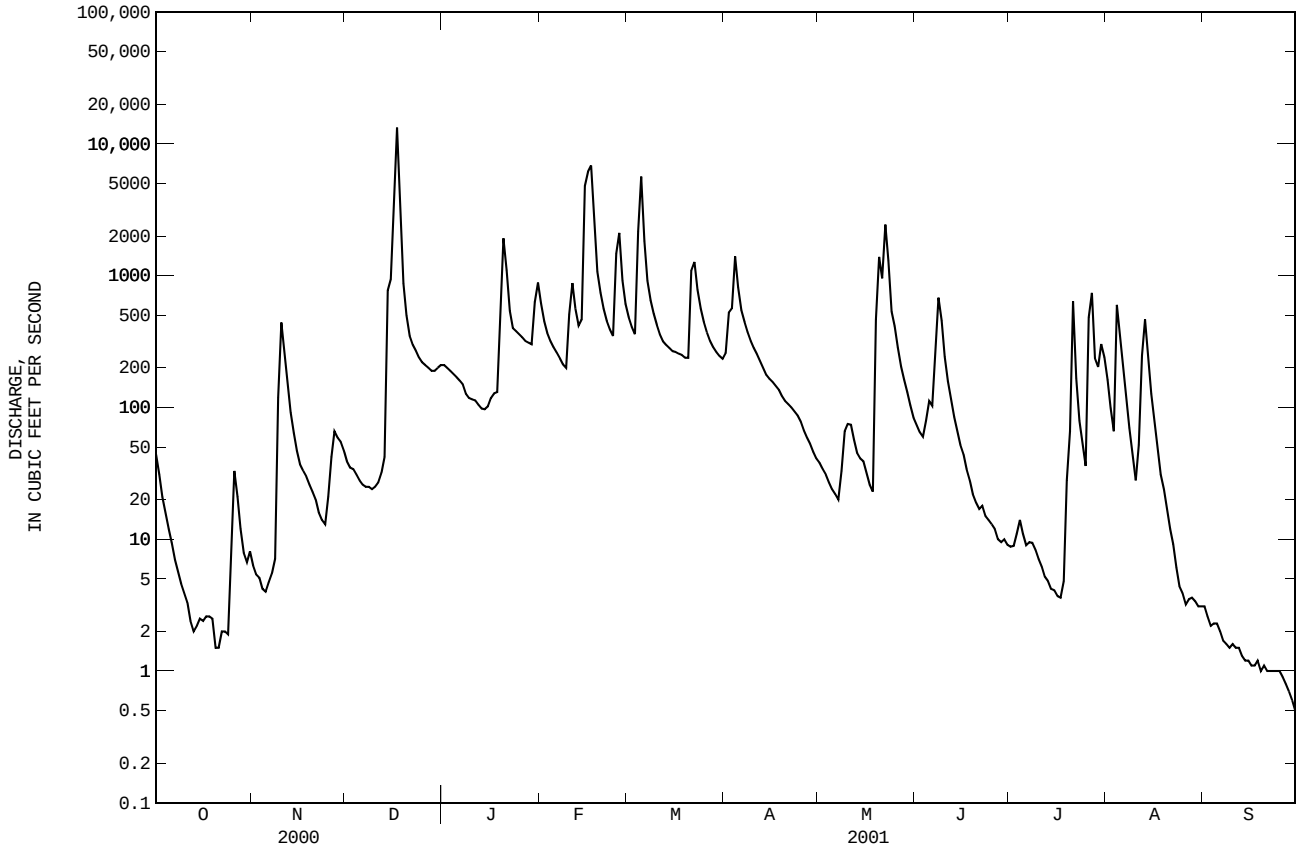
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2001, BY WATER YEAR (WY)

MEAN	154	471	989	951	1176	1214	728	646	489	202	159	224
MAX	1042	1699	3691	2461	5071	4663	2022	2359	2499	764	939	2284
(WY)	1976	1989	1979	1974	1989	1997	1979	1995	1997	1998	1978	1979
MIN	.011	.059	37.2	16.2	203	134	103	43.6	3.32	2.45	.87	.018
(WY)	1988	2000	2000	1981	1980	1983	1986	1976	1988	1975	1986	1999

03300400 BEECH FORK AT MAUD, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1973 - 2001	
ANNUAL TOTAL	121420.74		122865.10			
ANNUAL MEAN	332		337		614	
HIGHEST ANNUAL MEAN					1243	1979
LOWEST ANNUAL MEAN					256	2000
HIGHEST DAILY MEAN	13300	Dec 17	13300	Dec 17	39800	Mar 2 1997
LOWEST DAILY MEAN	.78	Jul 25	.50	Sep 30	.00	Oct 8 1983
ANNUAL SEVEN-DAY MINIMUM	.91	Jul 23	.79	Sep 24	.00	Oct 23 1987
MAXIMUM PEAK FLOW			15300	Dec 17	41500	Mar 2 1997
MAXIMUM PEAK STAGE			19.75	Dec 17	27.60	Mar 2 1997
ANNUAL RUNOFF (CFSM)	.76		.77		1.41	
ANNUAL RUNOFF (INCHES)	10.36		10.48		19.14	
10 PERCENT EXCEEDS	552		633		1300	
50 PERCENT EXCEEDS	41		74		162	
90 PERCENT EXCEEDS	2.4		2.4		3.9	

e Estimated



03301000 BEECH FORK AT BARDSTOWN, KY

LOCATION.--Lat 37°47'49", long 85°28'51", Nelson County, Hydrologic Unit 05140103, near center of span on downstream side of bridge on U.S. Highway 31E, 0.1 mile downstream from Rowan Creek, 1 mile southwest of Bardstown, and mile 20.7.

DRAINAGE AREA.--669 mi^2.

PERIOD OF RECORD.--October 1939 to September 1974; converted to a crest-stage partial-record station. Monthly discharge only for October, November 1939, published in WSP 1305. October 1997 to September 1999 and January 2001 to September 2001.

REVISIONS.--WSP 1705: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 439.3 ft above mean sea level.

REMARKS.--Records good except for periods of estimated record which are fair. At times during periods of low flow, City of Bardstown diverts entire flow above station for municipal water supply. Some of this water is returned to stream by sewer outfall 300 ft above gage.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	e200	1050	907	390	64	126	36	222	6.2
2	---	---	---	e190	772	771	611	52	118	21	158	6.2
3	---	---	---	e180	588	653	1480	47	133	23	111	6.3
4	---	---	---	e170	490	3160	1890	40	134	188	124	5.8
5	---	---	---	e160	417	8100	1530	35	139	370	627	5.7
6	---	---	---	e150	359	4030	1020	31	230	100	299	5.8
7	---	---	---	e140	316	1760	800	38	469	42	198	5.4
8	---	---	---	e130	278	1250	652	154	464	20	127	5.3
9	---	---	---	e120	261	988	536	170	804	11	84	5.4
10	---	---	---	e110	560	803	450	117	360	8.4	55	5.2
11	---	---	---	e110	1160	669	394	104	217	6.9	64	5.1
12	---	---	---	e120	957	572	341	101	153	5.6	222	5.0
13	---	---	---	e110	675	545	292	82	117	4.8	301	4.7
14	---	---	---	125	884	484	259	63	93	4.8	472	4.7
15	---	---	---	132	5910	442	241	54	74	4.7	226	4.8
16	---	---	---	135	9010	510	234	49	70	4.8	134	4.5
17	---	---	---	138	10500	460	208	52	57	4.7	88	4.4
18	---	---	---	145	5700	405	192	55	40	4.7	59	4.3
19	---	---	---	498	2060	380	178	416	29	4.8	40	4.1
20	---	---	---	2240	1410	381	165	1330	19	5.0	25	4.1
21	---	---	---	1970	1080	980	155	1060	17	277	17	4.1
22	---	---	---	1150	883	1900	145	2800	15	317	12	3.8
23	---	---	---	e760	750	1310	135	2000	14	132	9.2	3.8
24	---	---	---	e640	643	973	129	989	13	72	8.3	3.9
25	---	---	---	e540	1940	766	117	642	11	39	7.4	3.8
26	---	---	---	e480	3180	626	107	459	10	310	6.5	3.6
27	---	---	---	e440	1790	525	97	318	9.5	1110	7.3	3.6
28	---	---	---	e420	1160	447	89	247	34	475	7.0	3.5
29	---	---	---	e400	---	401	79	196	464	315	6.6	3.5
30	---	---	---	882	---	366	71	156	93	280	6.5	3.5
31	---	---	---	1340	---	342	---	129	---	326	6.6	---
TOTAL	---	---	---	14325	54783	35906	12987	12050	4526.5	4523.2	3730.4	140.1
MEAN	---	---	---	462	1957	1158	433	389	151	146	120	4.67
MAX	---	---	---	2240	10500	8100	1890	2800	804	1110	627	6.3
MIN	---	---	---	110	261	342	71	31	9.5	4.7	6.5	3.5
CFSM	---	---	---	.69	2.92	1.73	.65	.58	.23	.22	.18	.01
IN.	---	---	---	.80	3.05	2.00	.72	.67	.25	.25	.21	.01

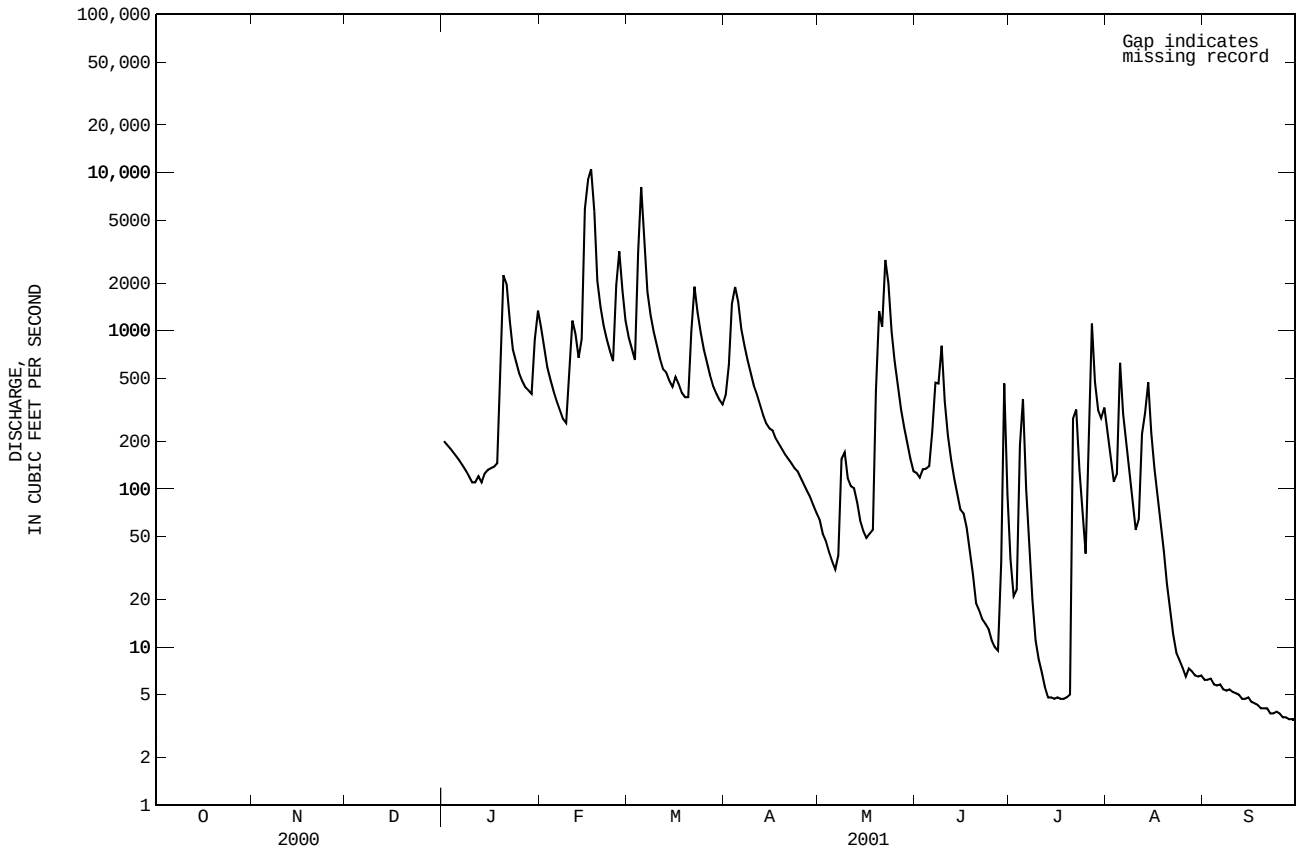
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	103	511	1079	1621	1836	1965	1362	837	567	467	194	159
MAX	1973	2682	3631	7384	5269	6277	6321	3372	2565	2946	1115	2206
(WY)	1963	1958	1952	1950	1956	1964	1972	1967	1998	1958	1974	1974
MIN	.27	.70	1.40	42.7	123	153	145	46.1	22.2	1.36	3.44	.39
(WY)	1954	1964	1944	1944	1954	1941	1963	1941	1948	1954	1999	1953

03301000 BEECH FORK AT BARDSTOWN, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL MEAN					899	
HIGHEST ANNUAL MEAN					1733	1950
LOWEST ANNUAL MEAN					245	1941
HIGHEST DAILY MEAN	18000	Mar 20	10500	Feb 17	32200	Mar 5 1964
LOWEST DAILY MEAN	.77	Jul 11	3.5	Sep 28	.00	Sep 29 1948
ANNUAL SEVEN-DAY MINIMUM	2.7	Jun 10	3.6	Sep 24	.03	Sep 28 1948
MAXIMUM PEAK FLOW			11000	Feb 17	33900	Mar 5 1964
MAXIMUM PEAK STAGE			23.88	Feb 17	43.50	Mar 5 1964
ANNUAL RUNOFF (CFSM)					1.34	
ANNUAL RUNOFF (INCHES)					18.26	
10 PERCENT EXCEEDS	1030		1160		2000	
50 PERCENT EXCEEDS	92		155		194	
90 PERCENT EXCEEDS	7.9		5.0		5.5	

e Estimated



03301500 ROLLING FORK NEAR BOSTON, KY

LOCATION.--Lat 37°46'02", long 85°42'14", Nelson County, Hydrologic Unit 05140103, on downstream side of bridge on U.S. Hwy 62 and State Hwy 61, 0.4 mi downstream from Beech Fork, 2.3 mi southwest of Boston, and at mile 19.8.

DRAINAGE AREA.--1,299 mi^2.

PERIOD OF RECORD.--May 1938 to current year.

REVISED RECORDS.--WSP 1705: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 400.42 ft above sea level. See WDR KY-90-1 for history of changes prior to Sept. 30, 1971. Datum of Auxilary gage (Rolling Fork at Lebanon Junction) 385.06 ft above sea level.

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

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in January 1937 reached a stage of 55.2 ft, former site, from floodmarks (backwater from Ohio River).

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 16,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 19	0100	*16,800	*36.09	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	169	30	145	e294	1840	1700	702	156	e260	114	452	27
2	129	27	131	e279	1410	1440	873	146	e265	90	350	24
3	102	25	127	e270	1120	1250	2080	133	e275	75	259	21
4	83	23	124	261	949	2920	4690	122	e290	299	203	27
5	67	32	117	256	833	9770	4650	114	330	661	435	35
6	54	25	113	249	737	9810	2310	107	453	e860	534	26
7	44	19	108	e245	656	4040	1710	114	813	e820	409	22
8	41	22	104	e242	587	2280	1410	375	987	e635	283	20
9	36	38	104	e241	535	1790	1190	690	943	e425	211	19
10	32	231	104	e240	880	1480	1020	419	675	e230	160	22
11	29	711	109	e240	1430	1260	906	345	450	e155	138	22
12	26	571	123	239	1640	1100	791	266	329	e99	203	23
13	24	366	137	e238	1230	1020	689	222	e275	55	417	20
14	23	261	307	e237	1170	967	609	183	e240	42	590	17
15	20	192	1540	e236	6470	972	574	153	e207	35	434	15
16	19	153	5350	e250	12400	1140	554	137	e175	29	270	14
17	17	128	10500	e270	15000	1160	505	122	e150	28	192	14
18	16	110	15100	290	14100	1050	452	147	e122	28	144	17
19	16	95	e10200	514	8210	954	408	288	104	27	118	18
20	16	85	e3130	2250	3220	884	374	1020	93	31	99	18
21	16	79	1410	2560	2300	1140	350	1470	78	74	82	19
22	16	73	966	2100	1710	2680	329	2420	111	385	69	20
23	15	66	722	1500	1440	2360	308	2750	87	264	59	18
24	15	61	e580	1290	1260	1780	291	1880	73	148	52	17
25	15	74	e519	1200	2270	1440	267	1240	64	100	43	16
26	16	124	e460	1110	4460	1200	241	1090	57	473	40	15
27	19	166	e420	1050	3770	1020	225	806	52	1220	33	15
28	21	179	e387	950	2190	896	207	489	48	803	31	15
29	21	182	e359	854	---	808	189	379	312	456	31	15
30	35	162	e332	1220	---	745	169	e312	247	410	27	15
31	33	---	e312	1870	---	698	---	e270	---	352	35	---
TOTAL	1185	4310	54140	23045	93817	61754	29073	18365	8565	9423	6403	586
MEAN	38.2	144	1746	743	3351	1992	969	592	286	304	207	19.5
MAX	169	711	15100	2560	15000	9810	4690	2750	987	1220	590	35
MIN	15	19	104	236	535	698	169	107	48	27	27	14
CFSM	.03	.11	1.34	.57	2.58	1.53	.75	.46	.22	.23	.16	.02
IN.	.03	.12	1.55	.66	2.69	1.77	.83	.53	.25	.27	.18	.02

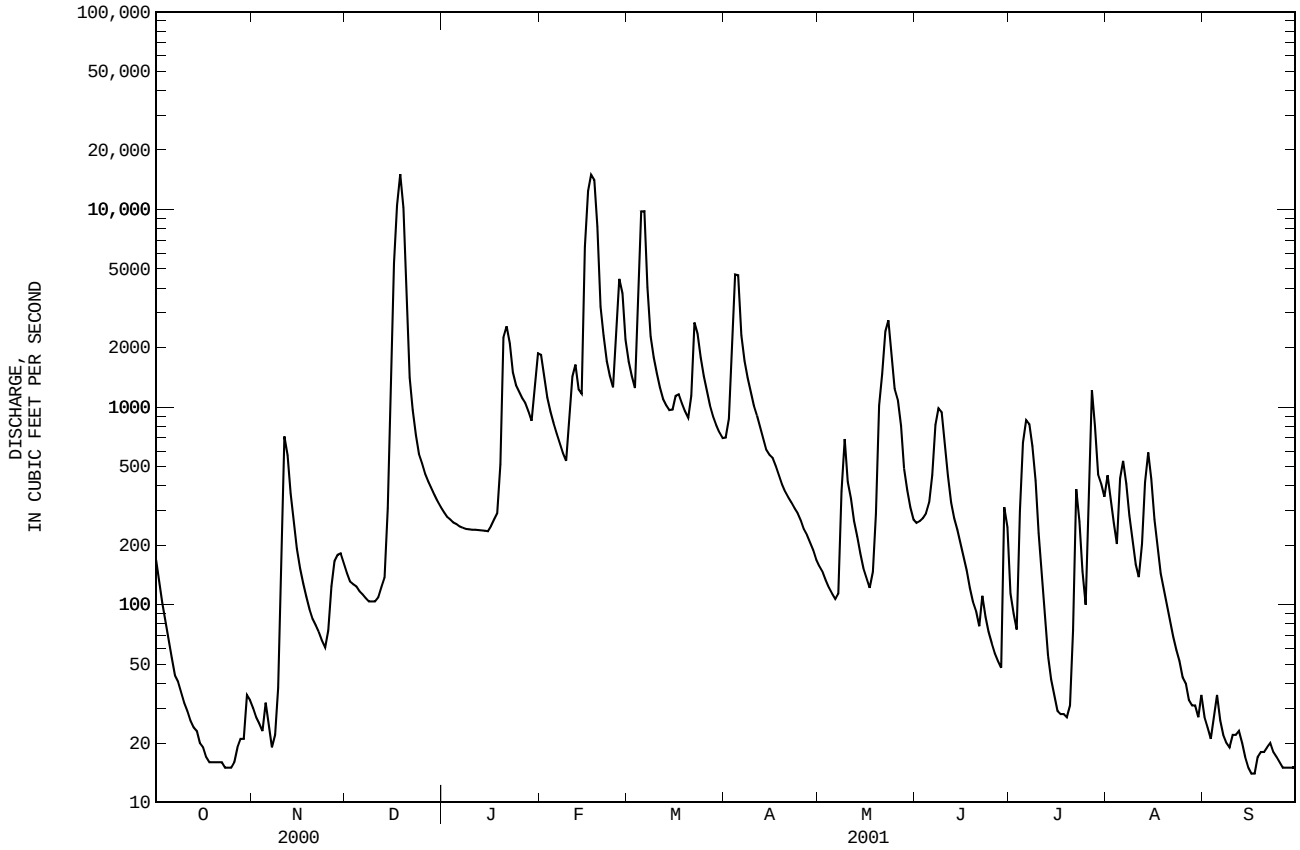
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2001, BY WATER YEAR (WY)

MEAN	296	1009	2345	2984	3791	3843	2749	1857	1130	734	407	439
MAX	2778	5310	11050	13420	16320	13540	11350	11810	6865	5339	2806	8265
(WY)	1976	1958	1979	1950	1989	1997	1972	1983	1997	1958	1977	1979
MIN	.57	4.32	5.84	77.0	288	344	353	150	24.4	6.78	12.9	1.89
(WY)	1954	1944	1944	1981	1954	1941	1986	1941	1988	1954	1999	1953

03301500 ROLLING FORK NEAR BOSTON, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939 - 2001	
ANNUAL TOTAL	377495		310666			
ANNUAL MEAN	1031		851		1789	
HIGHEST ANNUAL MEAN					4268	1979
LOWEST ANNUAL MEAN					473	1941
HIGHEST DAILY MEAN	19600	Feb 20	15100	Dec 18	68400	Mar 4 1997
LOWEST DAILY MEAN	15	Oct 23	14	Sep 16	.40	Oct 20 1939
ANNUAL SEVEN-DAY MINIMUM	16	Oct 19	15	Sep 24	.40	Oct 3 1953
MAXIMUM PEAK FLOW			16800	Dec 19	69800	Mar 3 1997
MAXIMUM PEAK STAGE			36.09	Dec 19	53.22	Mar 3 1997
INSTANTANEOUS LOW FLOW					.40	Oct 20 1939
ANNUAL RUNOFF (CFSM)	.79		.66		1.38	
ANNUAL RUNOFF (INCHES)	10.81		8.90		18.71	
10 PERCENT EXCEEDS	2420		1780		4720	
50 PERCENT EXCEEDS	192		256		493	
90 PERCENT EXCEEDS	27		21		26	

e Estimated



03301575 WILSON CREEK AT HARRISON FORK ROAD NEAR DEATSVILLE, KY

LOCATION.--Lat 37°52'10", long 85°35'58", Nelson County, Hydrologic Unit 05140103, Bernheim State Forest, at Harrison Fork Road ford, 300 ft upstream from Harrison Fork, 2.9 mi southwest of Deatsville, 5.4 mi southeast of Clermont, and at mile 13.6.

DRAINAGE AREA.--5.7 mi^2.

PERIOD OF RECORD.--January 1997 to September 2001(discontinued).

GAGE.--Water-stage recorder.

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

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)

No peak greater than base discharge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.02	.82	e.70	3.3	5.3	2.5	1.4	17	.07	.48	.10
2	.14	.02	.82	e.84	2.8	5.0	2.2	1.3	2.3	.06	.35	.08
3	.11	.03	.94	e1.0	2.6	4.3	7.9	1.3	1.3	.04	.36	.14
4	.09	.03	.95	e1.2	2.4	57	6.0	1.3	.94	.07	.49	.12
5	.07	.03	.91	e.58	2.3	23	4.1	1.2	.72	.11	.37	.10
6	.09	.23	.83	e.66	2.1	11	3.4	1.0	1.8	.07	.29	.16
7	.08	.86	.83	e.72	2.0	7.8	3.0	1.4	2.0	.03	.23	.11
8	.08	.98	.90	e.37	1.9	6.1	2.8	4.1	1.5	.01	.42	.08
9	.07	3.5	.92	e.23	3.8	4.9	2.6	1.7	.92	.00	1.4	.10
10	.05	2.9	1.0	e.36	8.2	4.1	2.5	1.3	.65	.00	.70	.15
11	.04	1.3	1.1	e.54	4.3	3.6	2.4	1.4	.50	.00	.67	.09
12	.04	1.0	1.2	e.78	3.5	3.3	2.2	1.2	.39	.00	.61	.08
13	.04	.86	1.3	1.1	3.1	3.4	1.8	.83	.31	.00	.42	.07
14	.04	.72	7.0	1.3	10	3.0	1.7	.73	.25	.00	.28	.06
15	.03	.61	3.5	1.5	21	3.2	1.9	.68	.24	.00	.20	.05
16	.03	.54	59	1.3	28	7.7	1.7	.55	.30	.00	.15	.06
17	.03	.50	18	1.2	15	5.2	1.5	.67	.19	.02	.14	.06
18	.03	.43	e7.0	1.3	8.4	3.9	1.4	.77	.14	.05	.11	.06
19	.02	.40	e3.6	5.7	6.6	3.3	1.4	1.4	.10	.04	.11	.22
20	.03	.42	e2.4	4.8	5.5	3.4	1.4	.94	.10	.05	.09	.48
21	.04	.42	e1.7	e3.9	4.5	4.0	1.4	9.4	.10	.05	.08	.45
22	.04	.40	e1.3	e3.3	4.2	3.5	1.3	11	.12	.13	.07	.28
23	.04	.36	e1.0	e3.0	3.7	3.0	1.3	3.0	.11	.08	.07	.19
24	.03	.42	e.80	2.7	3.4	2.8	1.4	2.0	.10	.07	.07	.18
25	.03	3.1	e.68	e2.5	16	2.4	1.2	1.3	.08	.05	.07	.12
26	.04	2.7	e.56	e2.3	7.4	2.3	1.2	1.0	.06	2.4	.13	.09
27	.04	1.5	e.49	e2.1	7.9	2.1	1.4	1.2	.05	1.8	.53	.08
28	.04	1.2	e.43	e2.0	6.4	2.1	1.4	.95	.05	1.2	.57	.07
29	.03	1.0	e.38	e1.8	---	2.2	1.4	.72	.06	1.8	.32	.07
30	.03	.92	e.34	6.6	---	2.2	1.4	.60	.06	1.1	.21	.06
31	.02	---	e.49	4.1	---	2.3	---	.70	---	.67	.14	---
MEAN	.054	.91	3.91	1.95	6.80	6.37	2.26	1.84	1.08	.32	.33	.13
MAX	.18	3.5	59	6.6	28	57	7.9	11	17	2.4	1.4	.48
MIN	.02	.02	.34	.23	1.9	2.1	1.2	.55	.05	.00	.07	.05

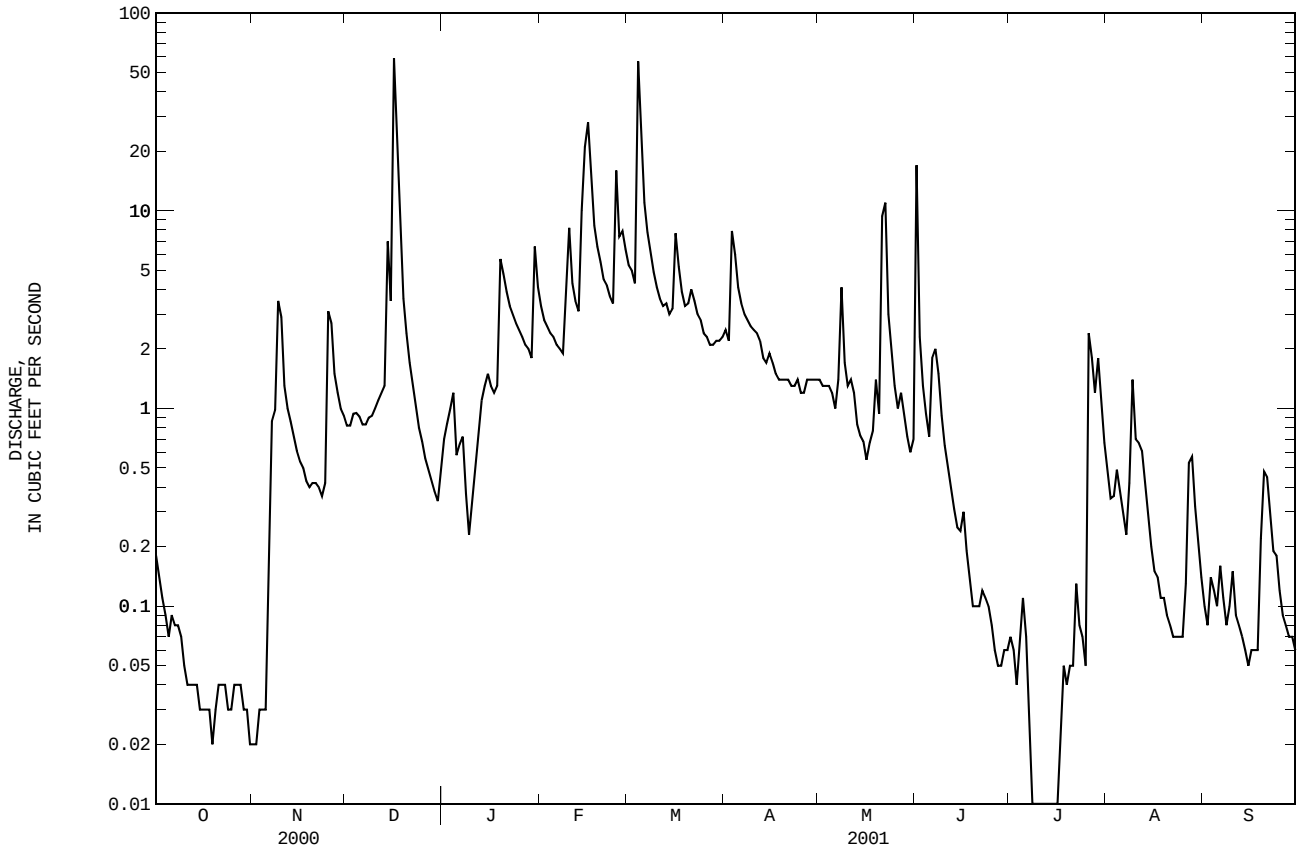
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	.074	.51	2.41	2.41	7.58	7.60	5.43	2.22	3.38	.38	.29	.13
MAX	.094	.91	3.91	2.86	9.49	8.83	7.52	3.26	8.58	.44	.54	.25
(WY)	2000	2001	2001	2000	2000	2000	2000	1999	1999	1999	2000	2000
MIN	.054	.12	.92	1.95	6.39	6.37	2.26	1.55	.47	.32	.004	.004
(WY)	2001	2000	2000	2001	1999	2001	2001	2000	2000	2001	1999	1999

03301575 WILSON CREEK AT HARRISON FORK ROAD NEAR DEATSVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL MEAN	3.04		2.14		2.43	
HIGHEST ANNUAL MEAN					2.72	2000
LOWEST ANNUAL MEAN					2.14	2001
HIGHEST DAILY MEAN	97	Feb 18	59	Dec 16	97	Feb 18 2000
LOWEST DAILY MEAN	.00	Jun 14	.00	Jul 9	.00	Jul 31 1999
ANNUAL SEVEN-DAY MINIMUM	.01	Sep 17	.00	Jul 9	.00	Aug 11 1999
MAXIMUM PEAK FLOW			129	Mar 4	440	Jan 23 1999
MAXIMUM PEAK STAGE			3.80	Mar 4	7.23	Jan 23 1999
10 PERCENT EXCEEDS	6.6		4.3		6.7	
50 PERCENT EXCEEDS	.89		.82		.92	
90 PERCENT EXCEEDS	.03		.04		.02	

e Estimated



03301700 MILL CREEK NEAR FORT KNOX, KY

LOCATION.--Lat 37°53'00", long 85°54'52", Hardin County, Hydrologic Unit 05140104, on wooden bridge on Poorman Road, 2.2 miles southeast of Fort Knox and at mile 8.0.

DRAINAGE AREA.--38.2 mi^2 .

PERIOD OF RECORD.--May 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 440 ft above NGVD of 1929 (from topographic map).

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	5.7	12	e11	39	59	26	11	10	5.3	13	4.4
2	8.8	5.8	12	e11	32	52	24	11	8.9	4.7	10	4.2
3	8.1	5.8	13	e10	27	44	122	10	7.5	4.3	8.8	6.1
4	7.5	5.9	13	e10	24	383	94	9.6	7.2	4.6	19	13
5	7.0	5.7	12	e9.6	22	253	66	8.4	6.9	9.0	10	5.4
6	7.3	6.4	11	e9.2	19	131	55	8.8	6.8	4.9	7.2	4.7
7	6.2	7.8	10	e8.8	17	93	46	14	21	4.2	6.3	4.5
8	6.2	9.1	11	e8.6	16	73	40	66	48	4.4	5.7	8.6
9	6.3	e39	9.8	e8.3	21	58	35	22	17	4.2	5.8	8.8
10	6.1	e38	11	e8.0	91	48	32	14	10	4.1	6.2	45
11	6.0	18	11	e7.8	47	42	29	11	8.0	4.0	64	11
12	6.0	13	12	7.6	38	37	26	10	6.8	3.6	45	6.7
13	6.0	11	14	e7.5	32	37	23	8.1	6.0	3.8	13	5.4
14	5.7	9.6	80	e7.3	121	31	21	7.4	5.2	3.5	8.2	4.8
15	5.8	8.8	49	e7.2	419	31	22	7.3	6.1	3.6	6.3	4.6
16	5.8	8.2	1050	e7.1	564	37	20	6.9	11	3.5	5.8	4.5
17	5.9	7.6	349	e7.0	328	34	18	6.6	6.5	3.5	5.2	4.5
18	5.9	7.2	142	8.7	152	30	16	6.8	5.3	4.3	5.2	4.5
19	5.9	6.9	80	55	108	27	16	45	4.8	4.1	9.3	29
20	6.2	6.6	50	64	82	28	16	17	4.7	81	6.6	26
21	6.3	6.3	e36	e44	63	36	15	20	4.7	23	5.1	9.3
22	6.8	6.3	e30	e34	54	33	15	60	5.5	8.2	4.8	6.8
23	6.8	6.8	e26	e29	46	30	14	28	5.0	6.1	4.5	5.8
24	6.5	6.2	e22	e26	40	29	16	19	4.7	6.1	4.5	6.5
25	6.1	92	e20	e24	377	26	14	15	4.4	5.2	4.5	6.0
26	6.3	61	e18	e22	149	24	13	11	5.7	331	6.0	5.4
27	6.4	31	e17	e20	98	22	13	14	15	151	6.2	5.1
28	5.9	21	e16	19	74	21	12	11	6.5	51	4.8	4.8
29	6.1	17	e14	21	---	21	11	8.9	8.1	70	4.5	4.8
30	6.0	14	e13	87	---	22	11	7.8	7.6	32	4.2	4.7
31	5.8	---	e12	55	---	24	---	7.5	---	19	4.5	---
TOTAL	201.4	487.7	2175.8	654.7	3100	1816	881	503.1	274.9	867.2	314.2	264.9
MEAN	6.50	16.3	70.2	21.1	111	58.6	29.4	16.2	9.16	28.0	10.1	8.83
MAX	9.7	92	1050	87	564	383	122	66	48	331	64	45
MIN	5.7	5.7	9.8	7.0	16	21	11	6.6	4.4	3.5	4.2	4.2

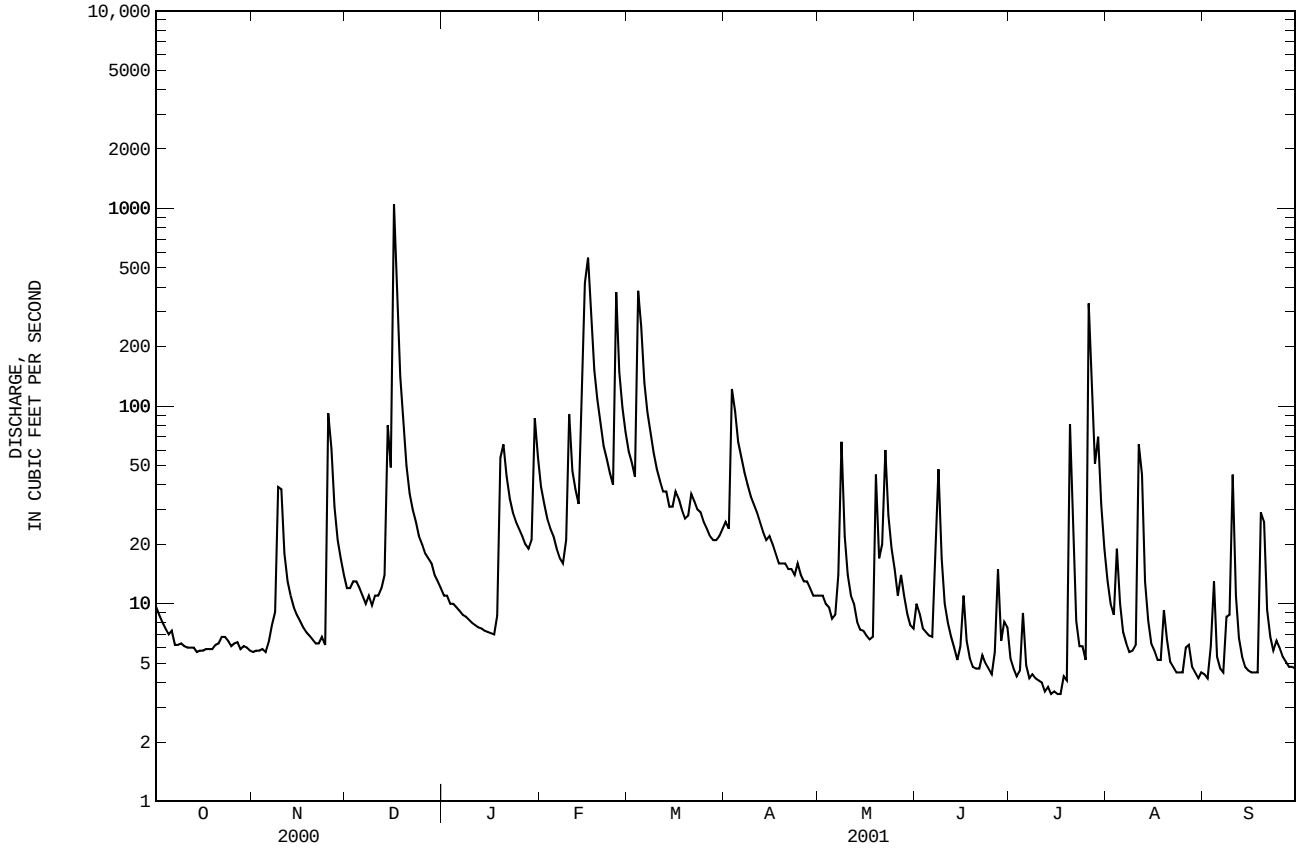
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	9.82	10.4	46.4	77.2	101	72.2	54.9	41.8	12.0	16.1	13.0	9.22
MAX	13.4	16.3	70.2	119	131	86.0	74.2	66.0	15.6	28.0	25.7	15.8
(WY)	1999	2001	2001	1999	2000	1999	1999	1999	2000	2001	2000	2000
MIN	6.50	4.67	26.4	21.1	60.9	58.6	29.4	16.2	9.16	4.56	3.28	2.99
(WY)	2001	2000	1999	2001	1999	2001	2001	2001	2001	1999	1999	1999

03301700 MILL CREEK NEAR FORT KNOX, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	17149.3		11540.9			
ANNUAL MEAN	46.9		31.6		38.4	
HIGHEST ANNUAL MEAN					43.8	2000
LOWEST ANNUAL MEAN					31.6	2001
HIGHEST DAILY MEAN	1080	Feb 18	1050	Dec 16	1080	Feb 18 2000
LOWEST DAILY MEAN	4.2	Jan 1	3.5	Jul 14	2.4	Sep 11 1999
ANNUAL SEVEN-DAY MINIMUM	5.4	Jul 21	3.6	Jul 11	2.8	Aug 29 1999
MAXIMUM PEAK FLOW			3050	Jul 26	6140	Jan 4 2000
MAXIMUM PEAK STAGE			7.86	Jul 26	10.29	Jan 4 2000
10 PERCENT EXCEEDS	82		60		78	
50 PERCENT EXCEEDS	13		11		12	
90 PERCENT EXCEEDS	6.0		4.8		3.8	

e Estimated



03301900 FERN CREEK AT OLD BARDSTOWN ROAD AT LOUISVILLE, KY

LOCATION.--Lat 38°10'32", long 85°36'55", Jefferson County, Hydrologic Unit 05140102, on right upstream wingwall, at bridge on Old Bardstown Road, at Louisville, and at mile 3.2.

DRAINAGE AREA.--3.5 mi^2.

PERIOD OF RECORD.--February 1991 to October 1995, (medium and high flows only), September 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage 550.74 ft., NGVD of 1929.

REMARKS.--Records good except those for estimated periods which are poor. Flow partially requlated by sewage treatment plant upstream.

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jul 20	1355	*439	*3.13	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	e1.3	2.2	1.3	1.9	3.0	3.2	e1.5	2.9	.91	1.1	1.6
2	2.5	e1.3	2.4	1.2	1.4	2.7	2.4	e1.4	2.1	.84	1.1	1.1
3	2.4	e1.3	2.6	1.2	1.3	2.3	5.0	e1.4	1.8	.98	2.6	2.3
4	2.1	e1.3	2.3	1.2	1.2	17	3.2	e1.3	5.6	.89	1.3	1.2
5	4.4	3.3	2.2	1.3	1.1	9.3	2.8	e1.3	2.6	.78	1.1	1.0
6	5.3	4.8	2.0	1.3	.96	6.5	2.6	e1.5	2.2	.75	1.0	.94
7	2.9	2.5	1.9	1.2	.85	5.3	2.7	25	3.2	.78	.99	2.7
8	e2.3	3.6	1.8	1.1	.87	4.3	2.9	14	2.2	1.2	.96	3.9
9	e2.1	17	1.6	.98	3.5	3.5	2.6	4.3	1.8	1.3	.98	5.0
10	e1.9	5.1	1.9	.92	2.4	3.0	2.6	3.0	1.6	.86	1.0	4.8
11	e1.8	2.9	2.6	.95	1.3	2.6	2.5	4.8	1.4	.78	3.9	1.8
12	e1.7	2.4	2.2	1.0	1.2	2.4	2.3	8.6	1.3	.93	1.6	1.3
13	e1.6	2.1	4.7	1.0	1.1	2.7	1.9	3.7	1.2	.76	1.1	1.3
14	e1.6	1.8	8.0	1.0	2.9	2.0	2.0	2.8	1.2	.78	1.0	1.2
15	e1.5	1.8	4.5	1.0	25	2.2	2.4	2.3	3.5	.74	.97	1.2
16	e1.7	1.7	77	.83	20	3.1	2.1	2.1	2.0	.77	.94	1.2
17	e1.7	1.5	19	.79	12	2.2	2.0	1.9	1.5	.89	.95	1.1
18	e1.6	1.6	11	.93	7.1	1.9	1.9	2.1	1.2	2.2	.97	1.1
19	e1.5	1.6	7.8	3.0	5.6	1.7	1.9	3.7	1.2	.99	1.3	3.0
20	e1.4	1.5	6.0	2.7	4.2	2.4	2.1	2.0	1.1	23	.94	1.4
21	e1.5	1.4	4.7	2.1	3.0	2.4	2.2	5.7	1.2	2.9	.88	1.2
22	e1.5	1.4	3.5	1.7	2.7	2.1	2.0	7.7	1.1	3.7	.87	1.2
23	e1.4	1.6	3.2	1.6	2.2	2.0	2.0	3.9	1.1	2.6	1.6	1.1
24	e1.4	1.4	2.8	1.5	2.0	1.9	2.3	3.5	1.0	2.0	.94	2.4
25	e1.3	13	2.4	1.3	18	1.8	2.0	2.6	.96	1.6	.95	1.2
26	e1.3	5.9	2.2	1.2	5.9	1.6	e1.8	2.3	2.0	2.2	5.1	1.1
27	e1.3	3.8	2.1	1.3	4.6	1.5	e1.8	6.6	1.1	1.6	1.9	.99
28	e1.3	3.0	1.9	1.1	3.6	1.5	e1.6	3.0	1.0	1.5	1.2	1.0
29	e1.2	2.7	1.8	2.5	---	1.5	e1.4	2.3	.98	1.6	1.1	1.1
30	e1.2	2.4	1.5	4.1	---	2.4	e1.5	1.9	.93	1.3	.98	1.1
31	e1.2	---	1.4	2.6	---	2.4	---	2.0	---	1.2	1.4	---
TOTAL	59.3	97.0	191.2	45.90	137.88	101.2	69.7	130.2	52.97	63.33	42.72	51.53
MEAN	1.91	3.23	6.17	1.48	4.92	3.26	2.32	4.20	1.77	2.04	1.38	1.72
MAX	5.3	17	77	4.1	25	17	5.0	25	5.6	23	5.1	5.0
MIN	1.2	1.3	1.4	.79	.85	1.5	1.4	1.3	.93	.74	.87	.94
CFSM	.55	.92	1.76	.42	1.41	.93	.66	1.20	.50	.58	.39	.49
IN.	.63	1.03	2.03	.49	1.47	1.08	.74	1.38	.56	.67	.45	.55

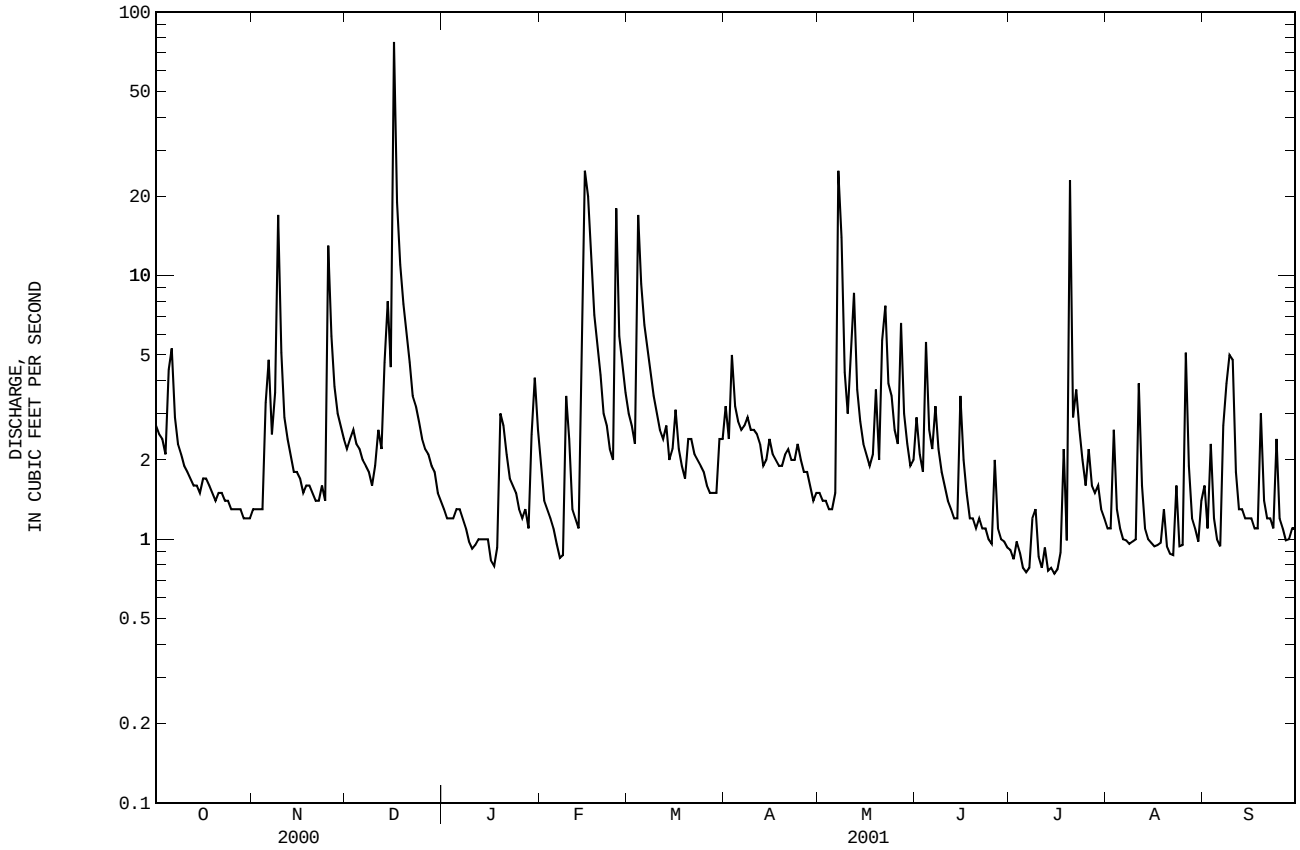
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	1.71	2.47	5.00	7.73	8.39	7.40	6.58	4.59	5.13	2.87	1.86	1.76
MAX	1.91	3.23	6.17	11.3	13.6	9.50	11.9	8.47	8.09	5.49	2.86	3.63
(WY)	2001	2001	2001	1999	2000	1999	1998	1998	1998	1998	1998	2000
MIN	1.18	1.74	3.37	1.48	4.92	3.26	2.32	2.31	1.77	1.59	.75	.80
(WY)	1998	2000	1999	2001	2001	2001	2001	2000	2001	1999	1999	1999

03301900 FERN CREEK AT OLD BARDSTOWN ROAD AT LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001	
ANNUAL TOTAL	1864.55		1042.93			
ANNUAL MEAN	5.09		2.86		4.60	
HIGHEST ANNUAL MEAN					6.16	1998
LOWEST ANNUAL MEAN					2.86	2001
HIGHEST DAILY MEAN	163	Feb 18	77	Dec 16	163	Feb 18 2000
LOWEST DAILY MEAN	.97	Jun 13	.74	Jul 15	.40	Oct 6 1997
ANNUAL SEVEN-DAY MINIMUM	1.1	Jun 7	.80	Jul 10	.61	Oct 3 1997
MAXIMUM PEAK FLOW			439	Jul 20	933	Jun 28 2000
MAXIMUM PEAK STAGE			3.13	Jul 20	4.16	Jun 28 2000
ANNUAL RUNOFF (CFSM)	1.46		.82		1.32	
ANNUAL RUNOFF (INCHES)	19.82		11.08		17.87	
10 PERCENT EXCEEDS	9.6		4.7		9.9	
50 PERCENT EXCEEDS	2.4		1.8		2.3	
90 PERCENT EXCEEDS	1.3		.98		.96	

e Estimated



03301940 NORTHERN DITCH AT OKOLONA, KY

LOCATION.--Lat 38°09'01", long 85°41'37", Jefferson County, Hydrologic Unit 05140102, at bridge on Preston Highway, 0.1 mi above Spring Ditch, and at mile 5.1.

DRAINAGE AREA.--11.1 mi^2.

PERIOD OF RECORD.--July 1992 to October 1995, September 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage is 447.32 ft above NGVD of 1929.

REMARKS.--Records good.

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 350 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	1115	652	7.95	Jul 20	1500	*761	*8.62

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	1.7	4.4	4.4	10	12	8.2	2.9	6.7	2.1	2.0	4.5
2	3.6	1.6	4.2	4.5	8.7	9.7	6.1	2.7	5.0	2.0	2.0	2.1
3	3.2	1.7	4.9	6.4	7.5	10	14	2.6	4.2	2.0	5.8	2.1
4	2.8	1.7	4.8	4.0	7.2	49	8.8	2.6	10	2.0	4.3	3.1
5	5.3	1.6	4.3	4.2	6.8	34	7.1	2.6	6.4	2.0	2.6	1.8
6	15	2.9	4.0	4.4	6.3	24	6.5	2.9	5.0	1.7	2.3	1.5
7	4.2	5.3	3.9	4.4	5.9	20	6.1	52	4.9	1.6	2.2	4.7
8	3.3	3.1	3.8	4.4	e6.2	17	5.6	51	5.3	1.6	2.0	22
9	3.0	46	3.3	4.0	e18	13	5.8	15	3.9	3.3	2.0	21
10	2.8	19	3.8	3.8	16	11	5.8	9.6	3.5	2.4	2.4	32
11	2.6	7.3	6.1	3.8	9.5	9.7	5.9	16	3.4	1.8	3.1	4.2
12	2.4	5.4	5.3	3.8	8.5	12	5.3	28	3.1	1.5	5.1	2.9
13	2.3	5.0	8.7	3.7	8.0	12	4.8	11	2.9	1.5	2.3	2.3
14	2.3	4.3	30	3.9	14	5.0	4.5	7.7	2.7	1.3	1.8	1.9
15	2.2	3.8	15	4.1	70	7.3	5.2	6.5	9.1	1.3	1.7	1.7
16	2.4	3.5	259	3.8	64	10	4.8	5.7	7.9	1.3	1.6	1.6
17	2.4	3.3	55	3.5	43	7.9	4.4	4.8	3.7	1.3	1.5	1.6
18	2.3	3.2	30	3.7	30	6.6	4.2	5.6	3.0	6.6	1.4	1.6
19	2.2	2.9	23	12	24	6.1	4.3	8.2	2.6	2.6	2.1	4.2
20	1.9	2.8	16	13	18	6.8	4.9	5.2	2.6	100	1.8	3.3
21	1.9	3.3	13	9.6	14	8.6	4.7	16	2.8	14	1.5	2.0
22	2.0	2.6	10	8.2	13	6.9	4.4	21	2.6	6.5	1.2	1.8
23	2.0	2.7	11	7.7	11	6.0	4.4	10	2.5	7.1	1.9	1.8
24	1.9	2.7	7.6	7.8	12	5.5	4.5	8.9	2.3	5.4	2.3	4.5
25	1.8	36	7.9	6.8	53	5.1	3.9	6.7	2.3	3.2	1.6	2.5
26	1.8	18	7.2	6.5	25	4.8	3.6	5.9	2.2	4.9	11	1.9
27	1.8	9.7	5.9	6.4	20	4.5	3.5	17	4.3	3.8	11	1.7
28	1.7	6.9	5.4	5.6	17	4.3	3.1	7.4	2.6	3.2	2.9	1.3
29	1.7	5.8	5.2	9.1	---	4.5	2.8	5.6	2.6	3.4	2.2	1.4
30	1.6	5.0	5.9	21	---	5.5	2.9	4.7	2.2	2.9	1.9	1.2
31	1.6	---	4.7	13	---	7.0	---	4.3	---	2.4	2.1	---
TOTAL	89.8	218.8	573.3	201.5	546.6	345.8	160.1	350.1	122.3	196.7	89.6	140.2
MEAN	2.90	7.29	18.5	6.50	19.5	11.2	5.34	11.3	4.08	6.35	2.89	4.67
MAX	15	46	259	21	70	49	14	52	10	100	11	32
MIN	1.6	1.6	3.3	3.5	5.9	4.3	2.8	2.6	2.2	1.3	1.2	1.2

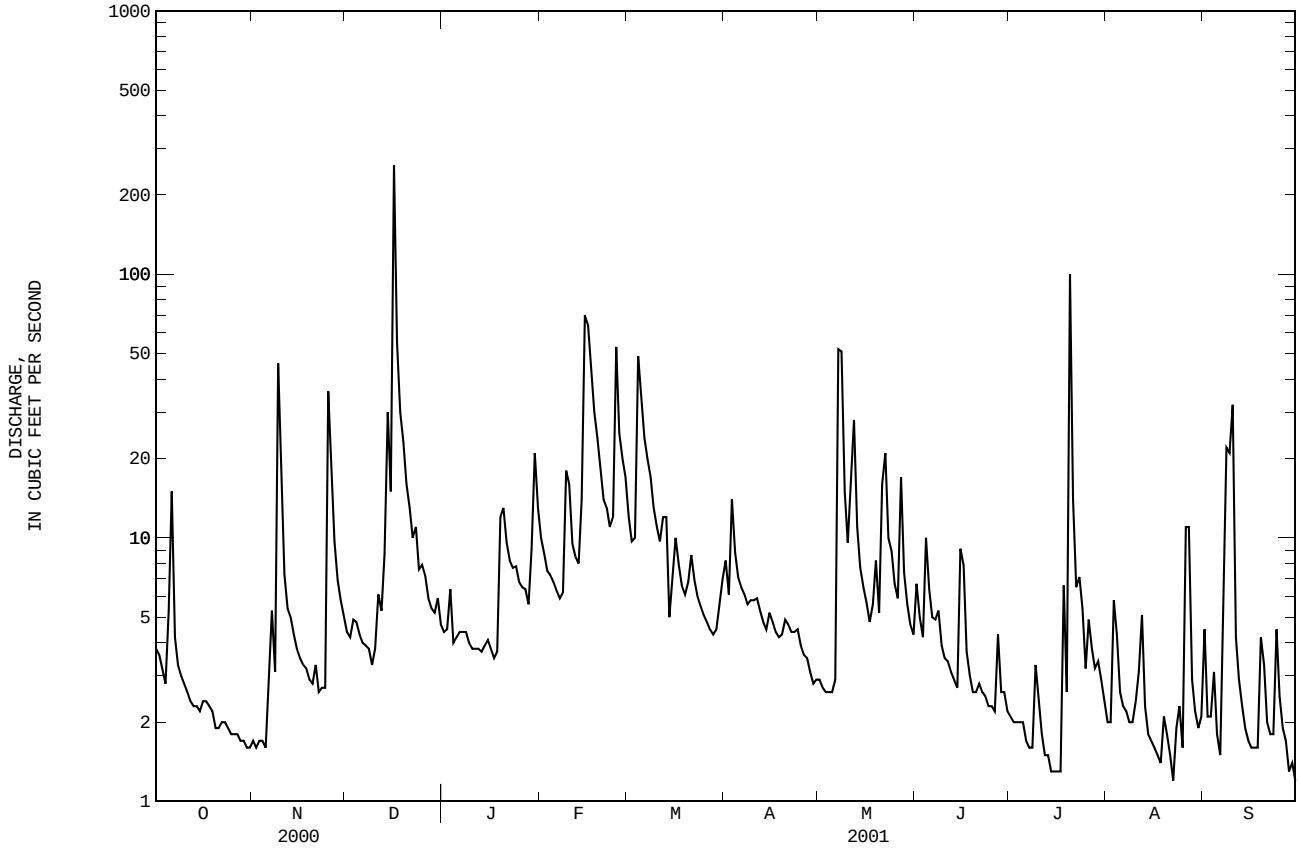
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2001, BY WATER YEAR (WY)

MEAN	3.61	5.26	14.0	23.4	23.3	15.5	14.9	21.0	15.3	8.25	6.76	4.37
MAX	4.99	7.29	21.3	35.8	31.2	26.4	35.6	58.8	30.2	18.9	17.3	8.90
(WY)	1999	2001	1994	2000	1998	1998	1998	1995	1999	1998	1995	1995
MIN	2.47	3.20	6.39	6.50	12.6	11.1	5.34	4.49	4.08	3.82	.70	.61
(WY)	1998	2000	1999	2001	1999	1999	2001	2000	2001	2000	1999	1999

03301940 NORTHERN DITCH AT OKOLONA, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1992 - 2001	
ANNUAL TOTAL	4501.29		3034.8			
ANNUAL MEAN	12.3		8.31		12.8	
HIGHEST ANNUAL MEAN					18.5	1998
LOWEST ANNUAL MEAN					8.31	2001
HIGHEST DAILY MEAN	444	Feb 18	259	Dec 16	608	May 18 1995
LOWEST DAILY MEAN	.90	Jul 27	1.2	Aug 22	.00	Sep 12 1997
ANNUAL SEVEN-DAY MINIMUM	1.2	Jul 21	1.4	Jul 11	.00	Sep 12 1997
MAXIMUM PEAK FLOW			761	Jul 20	1590	Jun 28 1999
MAXIMUM PEAK STAGE			8.62	Jul 20	13.19	Jun 28 1999
10 PERCENT EXCEEDS	22		16		29	
50 PERCENT EXCEEDS	4.4		4.4		6.6	
90 PERCENT EXCEEDS	1.9		1.8		1.9	

e Estimated



03302000 POND CREEK NEAR LOUISVILLE, KY

LOCATION.--Lat 38°07'11", long 85°47'45", Jefferson County, Hydrologic Unit 05140102, on upstream side of bridge on Manslick Rd, right bank, 0.4 mi south of Third Street Rd, 0.6 mi downstream from Bee Lick Creek, 1.5 mi downstream from confluence of Northern and Southern Ditches, 2.4 mi south of Louisville city limits, and at mile 15.4.

DRAINAGE AREA.--64.0 mi^2.

PERIOD OF RECORD.--August 1944 to current year.

REVISED RECORDS.--WSP 1705: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 430.38 ft above NGVD of 1929. See WDR KY-90-1 for history of changes prior to Nov. 16, 1962.

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

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in January 1937 reached a stage of about 23 ft present datum, backwater from Ohio River, from information by local residents.

PEAKS ABOVE BASE.--Peak discharges above base of 1,300 ft^3/s and maximum*.

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	1315	3000	17.52	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	9.5	14	e15	45	50	54	7.3	33	e9.0	e4.2	55
2	13	9.6	14	e14	33	44	29	7.1	19	e5.0	e3.5	11
3	13	9.6	18	e13	26	39	111	6.4	16	e9.2	e7.0	10
4	12	9.4	18	e13	e24	502	59	5.9	51	e22	e72	11
5	24	9.3	15	e12	e22	235	37	5.9	27	e8.2	e13	7.2
6	85	19	14	e12	e21	106	29	6.0	18	e5.0	e8.2	6.0
7	18	30	13	e11	20	76	24	201	41	e3.8	e7.2	42
8	13	20	13	e11	19	60	21	574	46	e3.6	6.8	216
9	12	179	12	e11	66	47	19	73	e21	e17	7.7	132
10	12	77	16	e10	133	39	18	45	e15	e13	13	371
11	10	23	36	e10	50	35	19	101	e12	e6.6	37	44
12	10	16	35	e10	38	33	15	374	e10	e4.5	23	22
13	9.2	16	39	e9.8	34	50	13	64	e8.0	e4.0	8.7	14
14	8.9	16	161	e9.7	88	e32	12	41	e6.8	e3.7	7.4	10
15	9.2	13	54	e9.5	585	e30	15	35	e20	e2.8	6.3	8.5
16	11	10	1620	e9.3	514	e55	13	26	e65	e2.1	5.9	7.4
17	11	9.8	489	e9.1	274	e45	11	20	e20	e1.5	5.0	7.4
18	12	9.2	142	e8.9	125	e33	11	27	e12	e30	5.5	9.9
19	10	8.8	85	95	93	e28	11	93	e8.0	e16	13	23
20	9.7	8.4	63	73	72	e29	14	30	e6.5	e88	6.2	23
21	9.8	8.4	52	49	53	e52	12	102	e8.0	e82	5.2	11
22	10	7.9	40	36	51	31	10	147	e9.0	e70	4.4	11
23	9.8	8.1	32	e31	48	25	9.6	52	e7.0	e39	4.5	6.9
24	10	8.2	e28	e28	41	22	19	49	e13	e17	9.9	73
25	10	205	e24	e25	506	19	9.9	30	e7.2	e15	6.4	17
26	10	73	e22	e22	122	18	8.8	22	e5.8	e30	71	9.2
27	10	37	e20	e20	82	16	8.1	100	e5.4	e26	81	7.8
28	9.9	25	e19	e19	64	16	7.8	33	e6.5	e10	14	8.2
29	10	23	e18	36	---	17	7.4	23	e6.0	e9.3	9.2	6.5
30	11	17	e17	120	---	27	7.2	18	e35	e8.5	6.8	6.1
31	10	---	e13	62	---	41	---	16	---	e5.4	9.7	---
TOTAL	427.5	915.2	3156	814.3	3249	1852	634.8	2334.6	558.2	567.2	482.7	1187.1
MEAN	13.8	30.5	102	26.3	116	59.7	21.2	75.3	18.6	18.3	15.6	39.6
MAX	85	205	1620	120	585	502	111	574	65	88	81	371
MIN	8.9	7.9	12	8.9	19	16	7.2	5.9	5.4	1.5	3.5	6.0
CFSM	.22	.48	1.59	.41	1.81	.93	.33	1.18	.29	.29	.24	.62
IN.	.25	.53	1.83	.47	1.89	1.08	.37	1.36	.32	.33	.28	.69

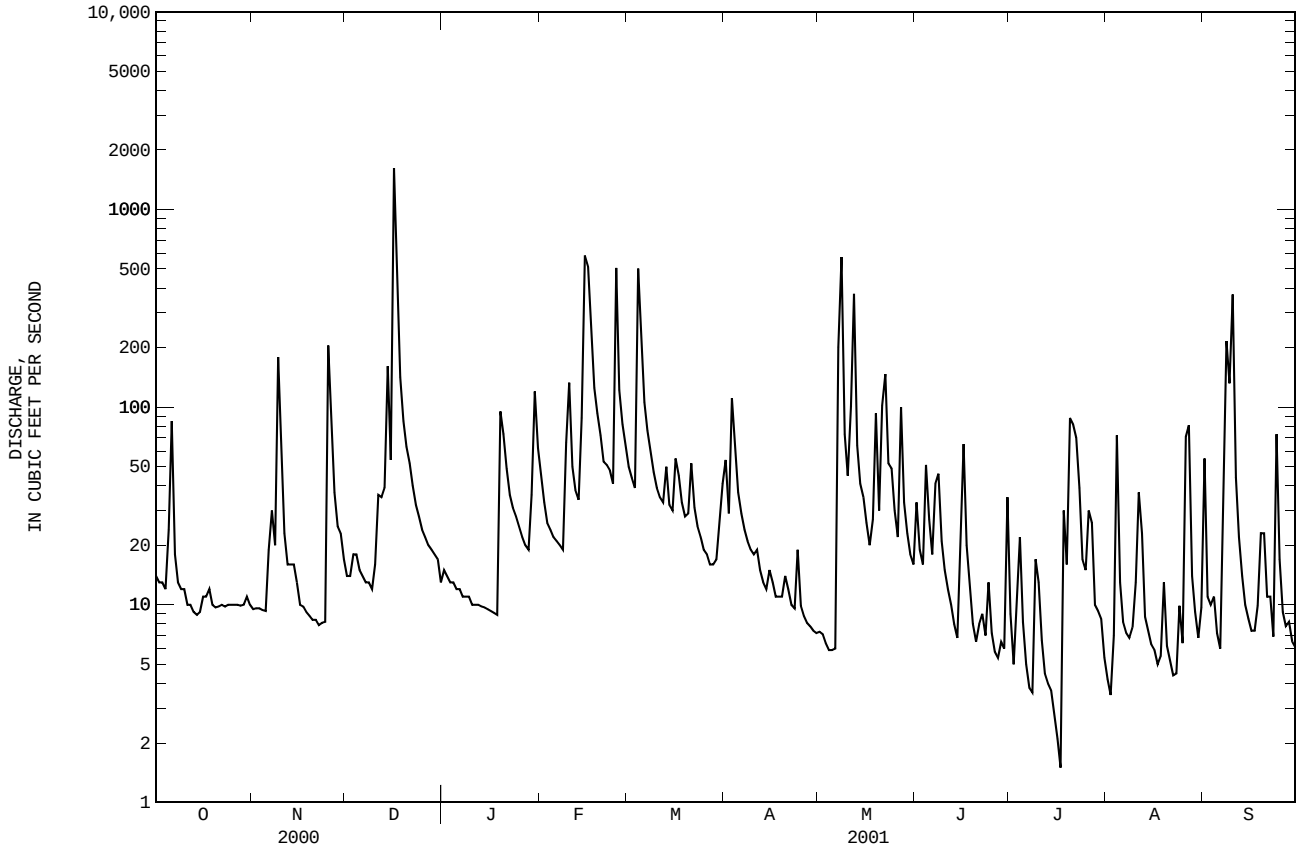
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2001, BY WATER YEAR (WY)

MEAN	27.5	57.1	96.9	132	157	186	132	104	69.9	46.9	34.1	32.6
MAX	117	256	310	614	454	814	551	505	328	282	186	399
(WY)	1976	1974	1979	1950	1989	1997	1970	1983	1997	1973	1992	1979
MIN	1.76	2.60	4.48	8.52	10.1	11.4	21.2	10.6	4.54	2.96	.78	1.15
(WY)	1947	1945	1954	1977	1954	1954	2001	1954	1954	1952	1945	1945

03302000 POND CREEK NEAR LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1944 - 2001	
ANNUAL TOTAL	27475.9		16178.6			
ANNUAL MEAN	75.1		44.3		89.7	
HIGHEST ANNUAL MEAN					159	1950
LOWEST ANNUAL MEAN					11.4	1954
HIGHEST DAILY MEAN	2770	Jan 4	1620	Dec 16	7200	Mar 2 1997
LOWEST DAILY MEAN	6.0	Jun 13	1.5	Jul 17	.10	Sep 3 1945
ANNUAL SEVEN-DAY MINIMUM	6.7	Jun 8	3.6	Jul 11	.19	Sep 17 1945
MAXIMUM PEAK FLOW			3000	Dec 16	8020	Mar 9 1964
MAXIMUM PEAK STAGE			17.52	Dec 16	25.74	Mar 2 1997
INSTANTANEOUS LOW FLOW					.10	Sep 3 1945
ANNUAL RUNOFF (CFSM)	1.17		.69		1.40	
ANNUAL RUNOFF (INCHES)	15.97		9.40		19.04	
10 PERCENT EXCEEDS	131		82		186	
50 PERCENT EXCEEDS	18		16		26	
90 PERCENT EXCEEDS	8.6		6.8		5.8	

e Estimated



03302030 POND CREEK AT PENDELTON ROAD NEAR LOUISVILLE, KY

LOCATION.--Lat 38°03'15", long 85°52'18", Jefferson County, Hydrologic Unit 05140102, at bridge on Pendleton Road near Louisville, 1.3 mi above Brier Creek and at mile 7.1.

DRAINAGE AREA.--80.3 mi^2.

PERIOD OF RECORD.--December 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage.

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

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)

No peak greater than base discharge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	e29	15	e38	62	67	68	19	34	9.0	5.3	42
2	15	e28	16	e36	51	59	51	20	26	6.0	4.4	13
3	16	e28	18	e35	42	54	109	19	20	12	8.7	7.0
4	13	e27	22	e34	39	619	85	20	41	26	96	10
5	16	e27	20	e33	e38	387	57	20	39	8.5	13	7.0
6	109	e50	19	e32	e37	124	48	20	24	5.8	7.0	5.7
7	26	70	19	e31	e35	94	42	160	51	4.7	6.2	13
8	15	38	19	e30	36	78	36	1000	57	4.7	5.4	244
9	13	186	19	e30	43	67	33	92	25	20	5.5	86
10	14	157	20	e29	167	58	31	63	17	14	13	625
11	14	44	29	e29	68	53	31	62	13	7.0	19	47
12	14	32	37	e28	54	49	27	554	11	5.0	37	24
13	13	29	19	e28	48	67	24	80	9.0	4.5	8.3	16
14	20	33	203	e27	67	49	24	53	7.8	4.5	5.8	12
15	24	32	43	e27	730	46	20	47	28	3.5	4.9	10
16	28	30	1990	e27	691	71	14	40	86	2.7	4.3	8.5
17	33	e28	957	e26	417	61	13	34	17	1.7	4.9	8.2
18	37	e27	164	e26	137	47	15	32	12	37	3.7	10
19	33	e26	109	91	106	42	16	96	8.7	17	8.3	15
20	e30	e24	e88	e82	96	42	19	43	7.7	112	7.3	28
21	e28	e23	e77	68	70	70	22	88	9.5	106	3.7	12
22	e32	e22	e69	57	63	53	20	145	11	102	3.0	11
23	e30	e22	e61	51	61	45	21	62	8.3	63	3.6	8.3
24	e28	41	e56	e47	53	41	30	53	15	19	7.5	63
25	e33	257	e52	e44	666	36	26	40	7.5	17	7.4	23
26	e31	85	e50	42	143	34	23	33	6.3	32	23	11
27	e29	30	e48	e41	96	34	22	94	6.1	29	108	8.7
28	e27	21	e46	e40	79	38	22	44	8.7	11	17	8.9
29	e30	19	e44	e39	---	38	21	32	7.8	11	9.3	8.8
30	e35	17	e42	131	---	40	20	24	46	9.9	7.2	7.4
31	e33	---	e40	84	---	67	---	20	---	6.5	6.7	---
TOTAL	835	1482	4411	1363	4195	2630	990	3109	660.4	712.0	464.4	1393.5
MEAN	26.9	49.4	142	44.0	150	84.8	33.0	100	22.0	23.0	15.0	46.5
MAX	109	257	1990	131	730	619	109	1000	86	112	108	625
MIN	13	17	15	26	35	34	13	19	6.1	1.7	3.0	5.7

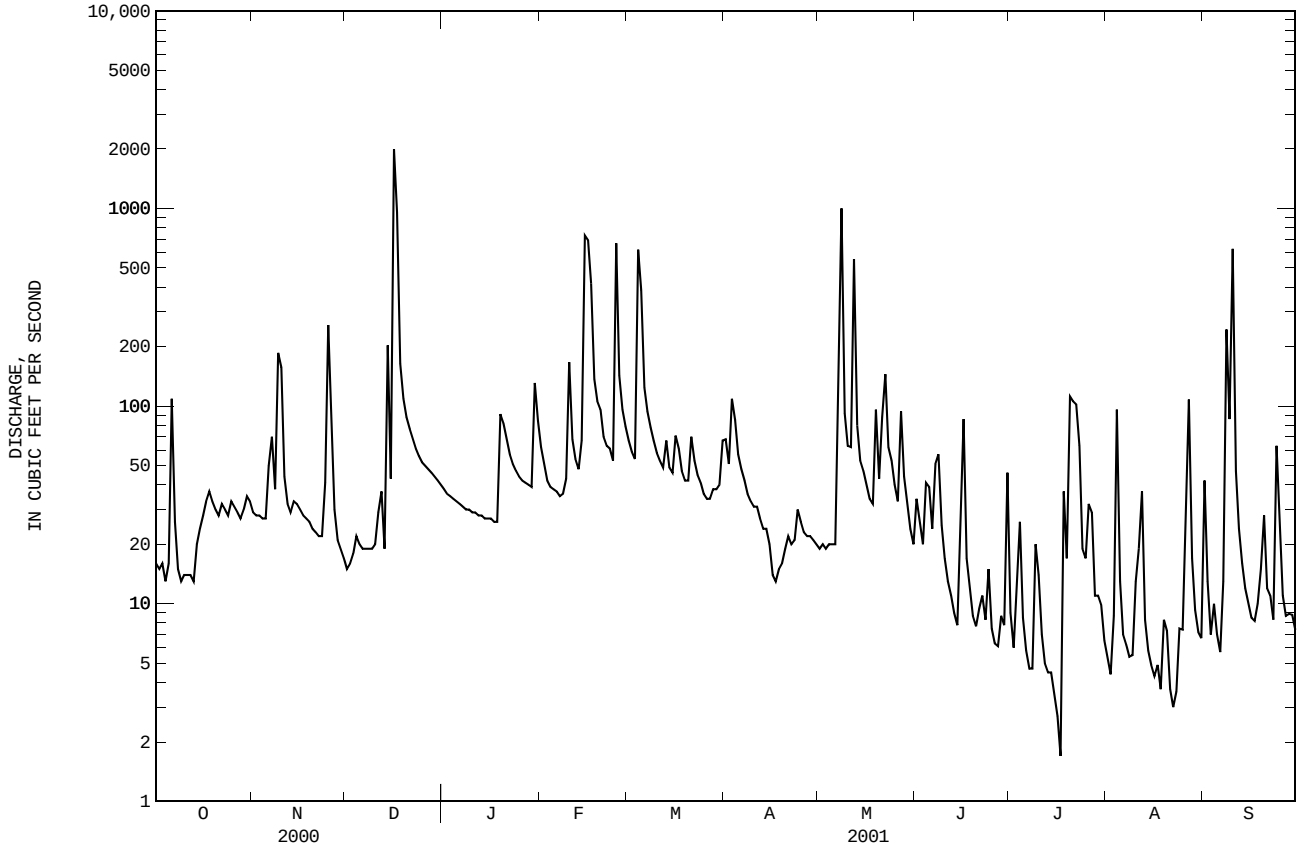
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	28.5	35.3	121	285	189	134	70.5	63.3	86.9	36.1	18.7	43.9
MAX	30.0	49.4	142	440	285	165	93.2	100	187	44.0	26.1	61.6
(WY)	2000	2001	2001	1999	2000	1999	2000	2001	1999	1999	2000	2000
MIN	26.9	21.3	100	44.0	130	84.8	33.0	23.4	22.0	23.0	14.9	23.8
(WY)	2001	2000	2000	2001	1999	2001	2001	2000	2001	2001	1999	1999

03302030 POND CREEK AT PENDELTON ROAD NEAR LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	40175.1		22245.3			
ANNUAL MEAN	110		60.9		82.6	
HIGHEST ANNUAL MEAN					104	2000
LOWEST ANNUAL MEAN					60.9	2001
HIGHEST DAILY MEAN	6220	Jan 4	1990	Dec 16	6220	Jan 4 2000
LOWEST DAILY MEAN	7.1	Jun 12	1.7	Jul 17	1.7	Jul 17 2001
ANNUAL SEVEN-DAY MINIMUM	8.4	Jun 8	4.1	Jul 11	4.1	Jul 11 2001
MAXIMUM PEAK FLOW			3370	Dec 16	10500	Jan 4 2000
MAXIMUM PEAK STAGE			17.05	Dec 16	19.75	Jan 4 2000
10 PERCENT EXCEEDS	156		95		137	
50 PERCENT EXCEEDS	28		30		29	
90 PERCENT EXCEEDS	11		7.5		8.9	

e Estimated



03302050 BRIER CREEK AT PENDLETON ROAD NEAR LOUISVILLE, KY

LOCATION.--Lat 38°02'52", long 85°51'26", Jefferson County, Hydrologic Unit 05140102, at bridge on Pendleton Road, 0.4 mi below Headley Hollow, 10 miles south of Louisville, and at mile 1.64

DRAINAGE AREA.--4.01 mi^2.

PERIOD OF RECORD.--January 1999 to current year.

GAGE.--Water-stage recorder and crest-stage gage.

REMARKS.--Records good except those estimated and those above 100 ft/s, which are poor.

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.29	.26	.34	e.78	3.1	4.0	2.5	.55	.27	.11	.08	.18
2	.27	.25	.33	e.74	2.6	3.5	2.3	.51	.23	.10	.09	.17
3	.26	.25	.34	e.70	2.2	3.0	4.3	.49	.25	.15	.09	.18
4	.24	.23	.31	e.68	2.1	25	4.6	.44	.29	.10	.09	.17
5	.23	.22	.31	e.66	2.0	17	4.2	.43	.25	.09	.09	.16
6	.25	.26	.28	e.63	1.8	8.5	4.0	.41	.23	.09	.09	.15
7	.22	.26	.28	e.60	1.6	6.2	3.5	22	1.2	.09	.09	.38
8	.22	.27	.28	e.58	1.5	4.9	3.1	20	1.0	.09	.09	1.5
9	.21	.54	.28	e.57	2.4	3.9	2.8	3.1	.42	.10	.09	4.3
10	.20	.56	.30	e.56	4.4	3.3	2.5	1.7	.33	.09	.09	3.2
11	.20	.75	.35	e.54	3.5	2.9	2.3	1.2	.28	.09	.09	.36
12	.20	.68	.38	e.53	3.0	2.6	2.0	2.3	.24	.09	.08	.21
13	.18	.68	.55	e.52	2.7	2.8	1.7	1.2	.21	.09	.08	.14
14	.19	.65	1.6	e.51	4.3	2.4	1.5	.88	.19	.09	.09	.11
15	.18	.61	1.1	e.50	27	2.4	1.5	.69	.19	.08	.09	.10
16	.20	.60	62	e.49	34	2.9	1.4	.55	.24	.08	.09	.09
17	.20	.55	13	e.48	18	2.7	1.3	.44	.17	.08	.09	.08
18	.20	.51	5.3	e.47	8.4	2.4	1.2	.38	.15	.08	.09	.09
19	.20	.51	3.6	2.2	6.1	2.3	1.1	.36	.15	.08	.09	.09
20	.20	.50	2.6	2.5	4.6	2.4	1.1	.31	.16	.08	.09	.08
21	.21	.47	2.2	2.3	3.6	3.1	1.1	.42	.15	.08	.09	.07
22	.23	.46	1.7	2.2	3.1	2.8	1.0	.56	.15	.08	.08	.07
23	.23	.47	1.5	e2.1	2.7	2.6	1.0	.37	.15	.08	.08	.07
24	.25	.47	e1.3	e2.0	2.5	2.5	1.0	.35	.13	.07	.08	.07
25	.27	1.6	e1.2	e1.9	29	2.2	.93	.30	.14	.07	.08	.06
26	.28	.88	e1.1	e1.8	9.5	2.0	.84	.28	.14	.09	.19	.05
27	.28	.66	e1.0	e1.7	6.5	1.8	.73	.44	.15	.08	.21	.06
28	.28	.52	e1.0	e1.6	4.9	1.8	.65	.33	.14	.08	.18	.05
29	.27	.43	e.94	e1.6	---	1.8	.60	.27	.12	.09	.19	.06
30	.27	.38	e.88	4.7	---	1.9	.58	.24	.12	.08	.19	.07
31	.26	---	e.82	3.9	---	2.4	---	.23	---	.09	.20	---
TOTAL	7.17	15.48	107.17	41.04	197.1	130.0	57.33	61.73	7.84	2.74	3.34	12.37
MEAN	.23	.52	3.46	1.32	7.04	4.19	1.91	1.99	.26	.088	.11	.41
MAX	.29	1.6	62	4.7	34	25	4.6	22	1.2	.15	.21	4.3
MIN	.18	.22	.28	.47	1.5	1.8	.58	.23	.12	.07	.08	.05

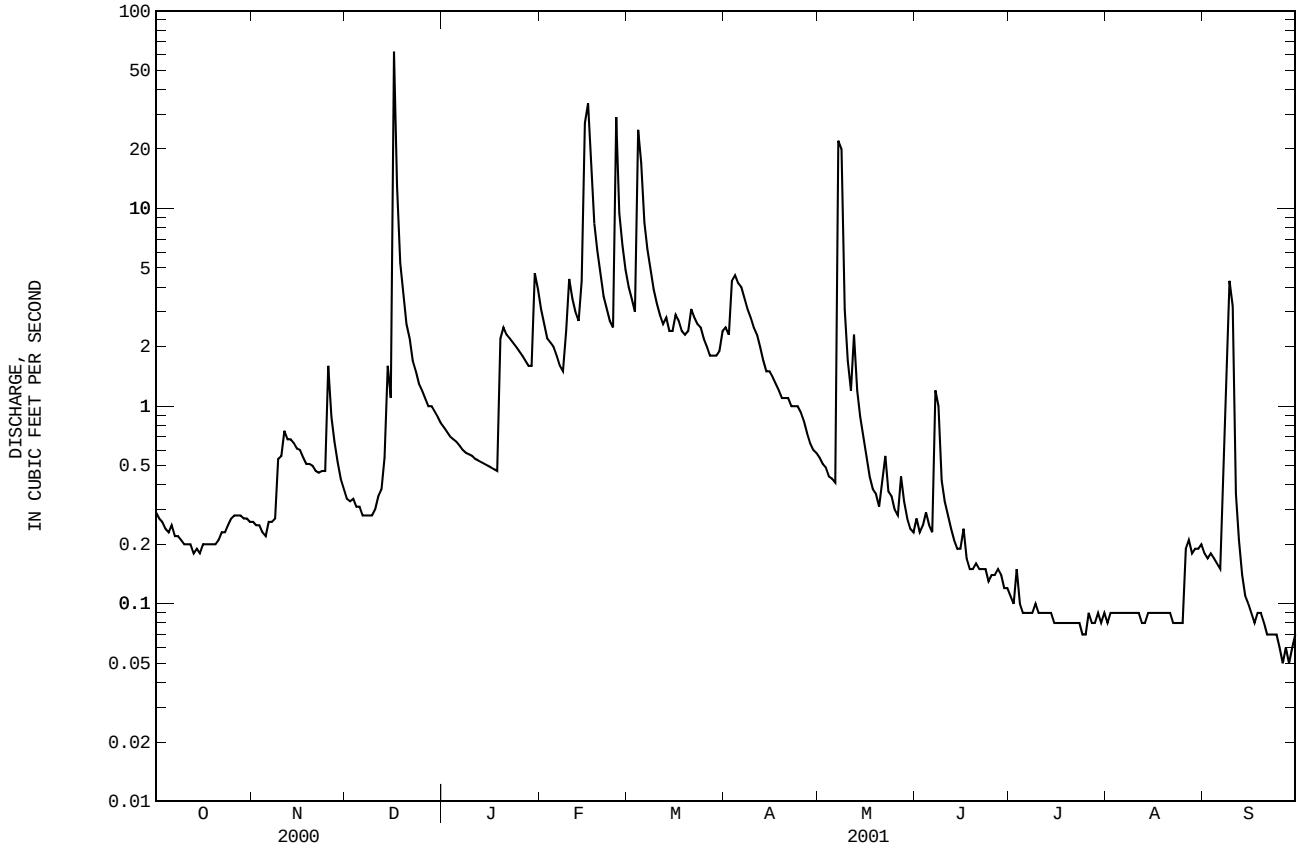
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	.12	.26	2.07	12.0	14.9	8.18	4.31	2.14	1.97	.19	.078	.22
MAX	.23	.52	3.46	23.2	30.7	10.7	7.02	3.00	4.95	.38	.11	.41
(WY)	2001	2001	2001	2000	2000	2000	2000	1999	1999	1999	2001	2001
MIN	.000	.000	.68	1.32	6.46	4.19	1.91	1.42	.26	.088	.026	.000
(WY)	2000	2000	2000	2001	1999	2001	2001	2000	2001	2001	1999	1999

03302050 BRIER CREEK AT PENDLETON ROAD NEAR LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	2361.22		643.31			
ANNUAL MEAN	6.45		1.76		3.96	
HIGHEST ANNUAL MEAN					6.15	2000
LOWEST ANNUAL MEAN					1.76	2001
HIGHEST DAILY MEAN	685	Feb 18	62	Dec 16	685	Feb 18 2000
LOWEST DAILY MEAN	.04	Aug 14	.05	Sep 26	.00	Aug 21 1999
ANNUAL SEVEN-DAY MINIMUM	.04	Aug 14	.06	Sep 23	.00	Aug 21 1999
MAXIMUM PEAK FLOW			188	May 7	2410	Jun 28 1999
MAXIMUM PEAK STAGE			3.14	May 7	7.61	Feb 18 2000
10 PERCENT EXCEEDS	5.8		3.4		5.4	
50 PERCENT EXCEEDS	.47		.43		.41	
90 PERCENT EXCEEDS	.06		.09		.00	

e Estimated



03302110 OTTER CREEK AT OTTER CREEK PARK NEAR ROCK HAVEN, KY

LOCATION.--Lat 37°56'37", long 86°01'47", Meade County, Hydrologic Unit 05140104, at downstream side of bridge on Highway 1638, 1.4 mi east of Rock Haven, and at mile 3.3.

DRAINAGE AREA.--99.2 mi^2.

PERIOD OF RECORD.--January 1999 to current year.

GAGE.--Water-stage recorder.

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

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	1135	*3,980	*6.82	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	12	20	e24	e88	155	54	e11	40	19	27	21
2	25	11	21	e23	e74	139	51	e10	35	15	24	17
3	21	12	20	e21	e64	119	177	e9.4	31	14	23	16
4	21	11	20	e19	e54	594	149	e9.0	29	15	32	23
5	19	11	20	e23	e47	579	107	e8.8	29	24	26	16
6	23	11	18	e27	e41	318	94	27	28	17	20	17
7	19	17	18	e25	e35	229	82	79	53	18	18	21
8	17	15	19	e28	e29	184	73	251	247	20	19	41
9	18	37	17	e24	e80	152	66	81	75	18	18	44
10	17	44	18	e20	e200	127	63	55	47	18	19	153
11	17	28	17	e21	e110	111	60	47	37	17	75	42
12	15	22	21	e24	e70	99	e48	54	33	14	85	31
13	15	18	21	e26	e62	98	e37	40	29	13	35	24
14	14	17	62	e28	e240	82	e29	37	25	13	24	18
15	14	17	51	e31	e900	79	e24	35	26	12	22	18
16	13	16	1750	e29	e520	86	e20	33	35	11	19	16
17	15	15	774	e27	e360	77	e18	31	25	12	16	16
18	13	14	e260	e26	e240	67	e15	32	21	14	17	16
19	14	13	e160	e76	e190	63	e18	63	20	14	23	22
20	12	12	e110	e43	e140	63	e21	48	18	36	18	28
21	13	9.5	e83	e48	e120	70	e18	50	17	23	16	23
22	13	11	e68	e35	e90	65	e16	72	18	16	13	e17
23	13	12	e59	e25	e76	61	e15	57	17	13	14	e13
24	12	13	e49	e20	e64	58	e29	47	17	16	14	e130
25	12	66	e43	e17	e760	54	e20	42	16	14	14	e50
26	12	59	e36	e16	e350	51	e16	39	18	171	17	e17
27	12	40	e32	e15	237	50	e14	42	32	159	25	e14
28	13	30	e31	e14	185	48	e12	38	20	54	17	e15
29	12	26	e29	e60	---	50	e11	34	19	64	16	e12
30	10	22	e27	e120	---	51	e11	32	27	44	15	e11
31	10	---	e25	e100	---	53	---	33	---	33	17	---
MEAN	15.5	21.4	126	33.4	194	130	45.6	46.7	36.1	30.4	23.8	30.1
MAX	27	66	1750	120	900	594	177	251	247	171	85	153
MIN	10	9.5	17	14	29	48	11	8.8	16	11	13	11

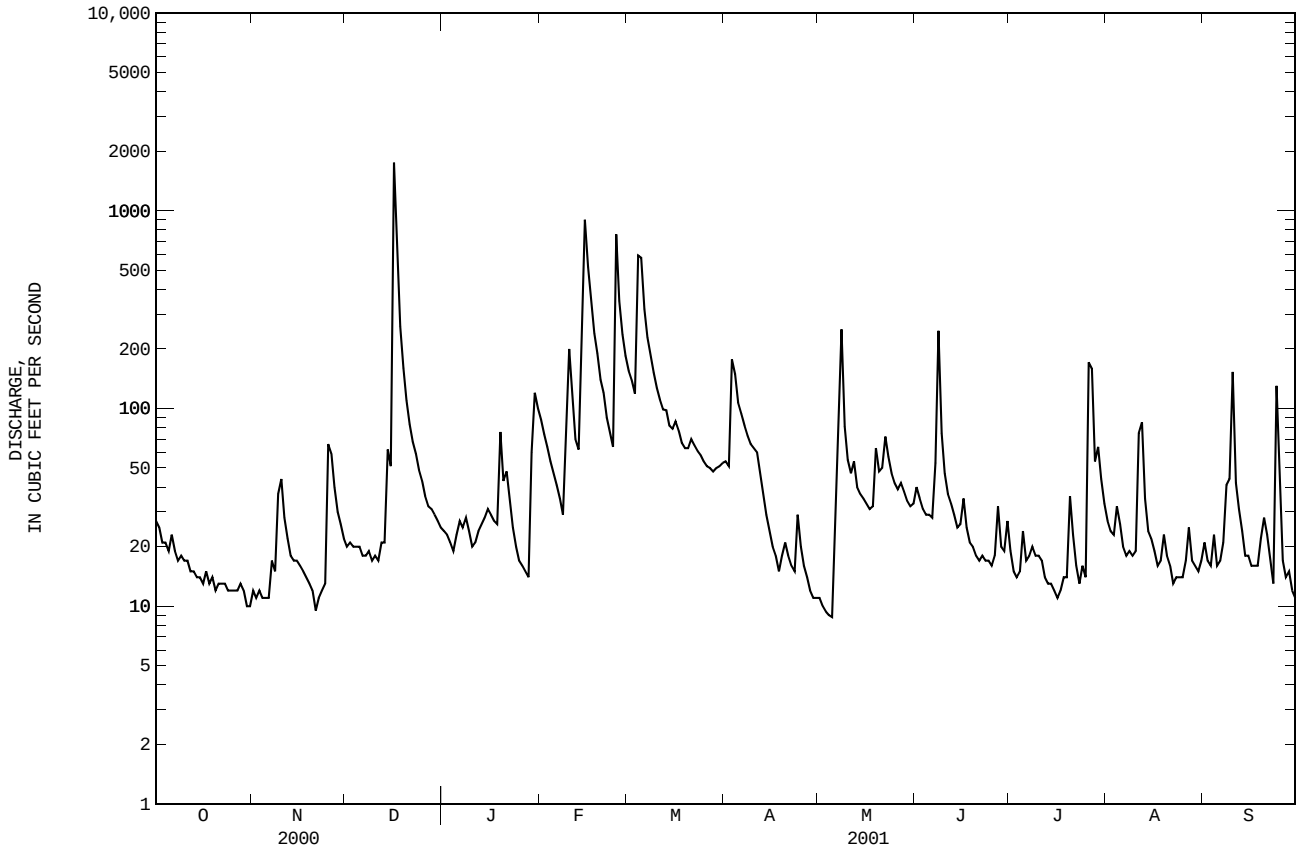
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	17.4	16.6	92.2	188	215	161	103	105	50.7	31.0	28.4	23.1
MAX	19.3	21.4	126	324	282	195	144	185	71.3	41.1	50.4	33.5
(WY)	2000	2001	2001	1999	2000	1999	1999	1999	2000	2000	2000	2000
MIN	15.5	11.9	58.6	33.4	168	130	45.6	46.7	36.1	21.5	10.9	5.82
(WY)	2001	2000	2000	2001	1999	2001	2001	2001	2001	1999	1999	1999

03302110 OTTER CREEK AT OTTER CREEK PARK NEAR ROCK HAVEN, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL MEAN	100		60.3		77.3	
HIGHEST ANNUAL MEAN					94.2	2000
LOWEST ANNUAL MEAN					60.3	2001
HIGHEST DAILY MEAN	2540	Jan 4	1750	Dec 16	2760	Jan 23 1999
LOWEST DAILY MEAN	9.5	Nov 21	8.8	May 5	4.9	Sep 6 1999
ANNUAL SEVEN-DAY MINIMUM	11	Oct 30	10	Apr 29	5.4	Sep 10 1999
MAXIMUM PEAK FLOW			3980	Dec 16	8810	Jan 4 2000
MAXIMUM PEAK STAGE			6.82	Dec 16	8.24	Jan 4 2000
10 PERCENT EXCEEDS	202		114		188	
50 PERCENT EXCEEDS	32		25		31	
90 PERCENT EXCEEDS	16		13		11	

e Estimated



03303280 OHIO RIVER AT CANNELTON DAM, KY

LOCATION.--Lat 37°53'58", long 86°42'20", Hancock County, Hydrologic Unit 05140201, at Cannelton Dam, 0.7 mi upstream from Indian Creek, 3.3 mi upstream from Lead Creek, and at mile 720.8.

DRAINAGE AREA.--97,000 mi^2, approximately.

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorders. Datum of headwater gage 0.4 mi upstream is 374.0 ft Ohio River datum. Datum of tailwater gage 0.4 mi downstream is 26.0 ft lower.

REMARKS.--Records good except those below 20,000 ft^3/s, which are poor.. Daily discharge computed from head, gate openings, and lockages. Flow regulated by Ohio River system of locks, dams, and reservoirs upstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63000	31400	66800	53200	166000	e113000	92900	69700	132000	35200	217000	54100
2	52600	22400	60700	49800	211000	e95000	117000	56500	108000	31200	224000	69400
3	47300	19700	62000	38800	233000	e87000	132000	56000	111000	51800	183000	42000
4	38000	22600	63400	33400	235000	e80000	140000	60600	126000	56500	141000	36100
5	40700	30800	49700	45800	197000	e116000	134000	44900	137000	42500	113000	37300
6	53700	32300	45100	37600	156000	167000	122000	34400	150000	53900	71500	40100
7	55000	18700	40200	46100	133000	179000	118000	52000	171000	63100	69400	32100
8	59200	23700	32600	41500	114000	169000	125000	58300	195000	57600	62900	29900
9	64600	31700	39800	41700	101000	149000	136000	43100	191000	82900	57500	30000
10	63200	41600	41400	35500	102000	125000	149000	30700	200000	127000	44000	50100
11	46200	63400	34400	41400	116000	108000	158000	43500	198000	138000	38800	35800
12	61600	50200	46600	41500	125000	100000	167000	36700	160000	117000	e53000	30300
13	56300	47800	63100	27400	136000	90700	204000	51800	112000	75200	e67000	26900
14	48100	50500	67300	37400	151000	98400	242000	31100	89800	70100	e60000	28100
15	38000	55300	85000	42100	169000	128000	255000	50500	82900	41700	e64000	22900
16	36100	47500	147000	25000	190000	146000	244000	39100	e68600	35800	55600	19300
17	34800	39300	257000	35300	231000	159000	202000	62700	e60100	35200	47400	20500
18	34000	47600	291000	42500	268000	170000	164000	110000	e55300	60200	39100	20100
19	37300	37100	289000	54800	371000	180000	155000	166000	e64000	137000	39300	11600
20	35800	26800	282000	78200	402000	182000	156000	237000	52900	106000	36500	31500
21	36000	36800	277000	115000	407000	180000	157000	284000	39200	50200	21200	31000
22	41300	31200	256000	157000	37500	177000	153000	292000	47800	49000	25200	19800
23	43600	21200	210000	176000	240000	196000	145000	280000	58700	49400	23800	31500
24	22400	37900	162000	157000	183000	207000	142000	276000	61200	56700	36600	44300
25	25600	44300	130000	118000	158000	221000	144000	287000	61200	48300	19600	28800
26	29500	46100	97900	96400	e139000	218000	131000	280000	66000	44400	41900	13900
27	30100	36900	77100	88700	e118000	185000	115000	271000	68500	83800	35900	37600
28	30100	22700	54900	86200	e125000	160000	106000	271000	47300	107000	25100	42100
29	29300	56200	58700	70300	---	134000	86900	244000	36600	133000	56700	31500
30	16900	56300	58800	71200	---	113000	76100	205000	36100	141000	47800	28100
31	27900	---	48400	116000	---	95500	---	167000	---	174000	25000	---
TOTAL	1298200	1130000	3494900	2100800	5214500	4528600	4468900	4191600	2987200	2354700	2042800	976700
MEAN	41880	37670	112700	67770	186200	146100	149000	135200	99570	75960	65900	32560
MAX	64600	63400	291000	176000	407000	221000	255000	292000	200000	174000	224000	69400
MIN	16900	18700	32600	25000	37500	80000	76100	30700	36100	31200	19600	11600

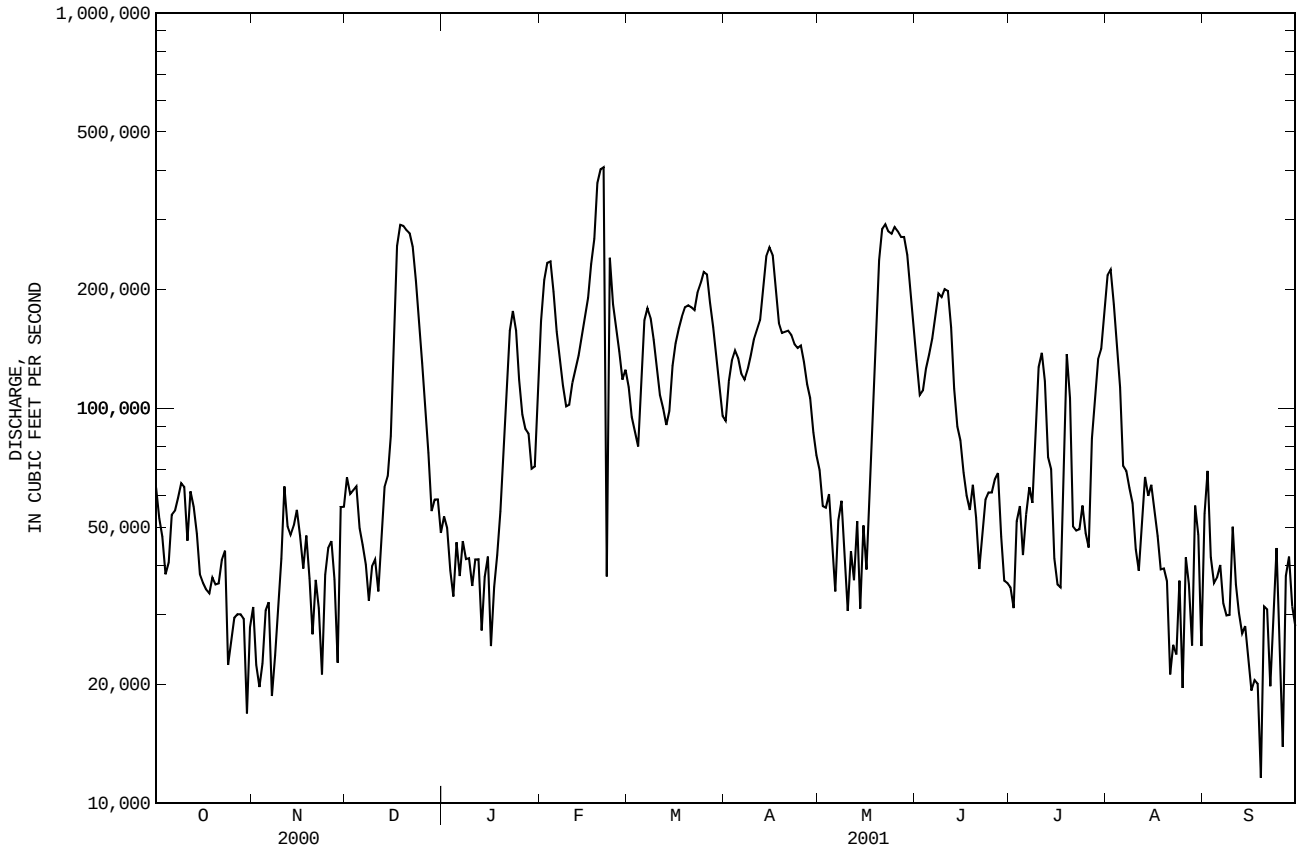
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2001, BY WATER YEAR (WY)

MEAN	55800	89140	152600	164700	205200	234000	200900	158800	105100	67490	53780	42410
MAX	155800	222400	334000	368700	358600	443300	360400	415100	235400	125500	148200	186600
(WY)	1980	1986	1979	1991	1994	1997	1994	1996	1981	1998	1980	1979
MIN	13980	24350	47120	36500	94740	125500	72990	46020	16490	18760	13130	11630
(WY)	1992	1999	1999	1977	1992	1983	1986	1976	1988	1988	1988	1999

03303280 OHIO RIVER AT CANNELTON DAM, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1976 - 2001	
ANNUAL TOTAL	38521600		34788900			
ANNUAL MEAN	105300		95310		127100	
HIGHEST ANNUAL MEAN					188900	1979
LOWEST ANNUAL MEAN					72150	1988
HIGHEST DAILY MEAN	566000	Feb 22	407000	Feb 21	735000	Mar 8 1997
LOWEST DAILY MEAN	16900	Oct 30	11600	Sep 19	3180	Aug 28 1995
ANNUAL SEVEN-DAY MINIMUM	24300	Oct 29	21300	Sep 13	7650	Jul 12 1988
MAXIMUM PEAK FLOW			412000	Feb 21	736000	Mar 8 1997
MAXIMUM PEAK STAGE			34.35	Feb 21	52.42	Mar 8 1997
10 PERCENT EXCEEDS	239000		203000		281000	
50 PERCENT EXCEEDS	66000		61600		90200	
90 PERCENT EXCEEDS	31500		30100		22900	

e Estimated



03303280 OHIO RIVER AT CANNELTON DAM, KY--Continued

(National stream-quality accounting network station)

WATER-QUALITY RECORDS

LOCATION.--Samples are collected 2.0 mi^2 upstream from discharge station.

PERIOD OF RECORD.--Water years 1975 to 1986 and 1996 to current water year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE.--October 1974 to September 1986 (discontinued).
WATER TEMPERATURES.--October 1974 to September 1986 (discontinued).

REMARKS.-- Flow regulated by Ohio River system of locks, dams, and reservoirs.

COOPERATION.--Records of conductance and temperature collected on right bank at Cannelton Dam and furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE.--Maximum daily recorded, 691 microsiemens, Nov. 14, 1978; minimum daily recorded, 176 microsiemens, Dec. 15, 1978
WATER TEMPERATURES.--Maximum daily recorded, 30.0°C, July 23, 24, 1977, Aug. 5, 1982, several days in July and August, 1983; minimum daily recorded, 0.0°C, on several days during most winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY (NTU) (00076)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)
OCT												
30...	1230	ENVIRONMENTAL	15200	5.0	9.2	.105	.084	758	7.5	7.5	7.8	415
NOV												
28...	1230	ENVIRONMENTAL	19100	2.0	4.8	.073	.054	755	9.8	7.5	7.7	422
JAN												
10...	1240	ENVIRONMENTAL	41800	13	15	.092	.068	762	13.9	7.9	7.6	240
10...	1248	FIELD BLANK	--	--	--	--	--	--	--	--	--	--
FEB												
07...	1145	ENVIRONMENTAL	134000	56	86	.070	.055	758	13.6	7.8	7.8	238
MAR												
06...	1330	ENVIRONMENTAL	172000	50	69	.066	.049	757	13.7	7.8	7.7	230
06...	1340	REPLICATE	--	50	72	.066	.050	--	--	--	7.7	--
20...	1200	ENVIRONMENTAL	185000	38	45	.058	.043	755	12.6	8.0	7.9	250
APR												
11...	1150	ENVIRONMENTAL	161000	28	33	.050	.037	747	11.3	7.8	7.8	268
11...	1158	FIELD BLANK	--	--	33	.002	.002	--	--	--	7.8	--
25...	1210	ENVIRONMENTAL	144000	38	54	.081	.060	759	8.9	7.6	7.8	363
25...	1220	REPLICATE	--	45	63	--	--	--	--	--	7.9	--
MAY												
08...	1150	ENVIRONMENTAL	53200	4.6	8.9	.068	.050	759	9.6	7.8	7.6	360
22...	1310	ENVIRONMENTAL	285000	180	220	--	--	749	6.3	7.5	7.9	412
22...	1318	FIELD BLANK	--	--	--	--	--	--	--	--	--	--
JUN												
05...	1130	ENVIRONMENTAL	138000	--	35	.107	.078	752	7.4	7.5	7.9	306
05...	1138	FIELD BLANK	--	--	--	--	--	--	--	--	--	--
29...	1220	ENVIRONMENTAL	35900	--	7.8	.087	.063	755	6.4	7.6	7.9	387
29...	1228	FIELD BLANK	--	--	--	--	<.004	--	--	--	--	--
JUL												
26...	1240	ENVIRONMENTAL	38800	--	6.2	.079	.057	753	6.2	7.6	7.1	454
26...	1250	REPLICATE	--	--	6.2	.081	.059	--	--	--	7.0	--
AUG												
29...	1150	ENVIRONMENTAL	72400	--	9.9	.086	.063	754	6.4	7.7	7.9	339
SEP												
10...	1300	ENVIRONMENTAL	44600	--	14	.090	.064	753	--	7.5	7.6	329

03303280 OHIO RIVER AT CANNELTON DAM, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
OCT													
30...	26.1	18.7	160	43.4	13.1	3.66	29.7	90	76	93	34.5	.3	5.6
NOV													
28...	7.2	9.8	180	48.7	15.2	4.09	34.2	105	92	112	41.5	.3	4.1
JAN													
10...	1.2	.8	140	39.3	10.8	3.27	20.9	86	59	72	30.3	.2	4.8
10...	--	--	--	.01	<.001	--	<.025	--	--	--	--	--	<.02
FEB													
07...	8.8	3.6	120	34.4	9.40	2.58	23.1	72	53	65	33.7	.2	5.0
MAR													
06...	.7	6.6	130	35.7	9.03	2.21	15.0	78	72	88	22.5	E.1	5.1
06...	--	--	120	34.9	8.86	2.15	14.8	78	--	--	23.3	E.1	5.1
20...	8.9	7.5	120	32.9	9.58	2.17	17.6	70	65	80	23.1	.2	4.8
APR													
11...	23.9	13.4	130	35.3	9.51	1.93	18.5	69	54	66	28.7	E.1	3.9
11...	--	--	130	35.3	9.51	1.93	18.5	69	--	--	28.7	E.1	3.9
25...	22.8	16.6	140	37.3	10.4	2.63	16.3	73	67	81	24.7	E.1	5.3
25...	--	--	140	37.1	10.4	2.65	16.3	73	--	--	24.7	E.1	5.2
MAY													
08...	23.9	20.1	130	35.6	10.4	2.37	18.2	70	64	79	27.2	.2	4.5
22...	19.4	21.4	150	40.8	12.3	2.76	20.3	85	74	90	28.0	.2	2.9
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
05...	23.8	18.8	130	34.1	10.2	2.51	11.2	76	64	78	16.8	E.1	6.3
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	27.8	26.2	150	41.0	12.6	2.80	18.0	92	82	100	21.0	.2	5.7
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
26...	28.6	28.5	140	37.8	11.8	2.58	23.0	84	69	84	24.1	.2	4.0
26...	--	--	140	37.8	11.8	2.65	23.2	84	--	--	24.1	.2	4.0
AUG													
29...	32.4	27.6	120	32.0	8.99	2.80	14.7	79	60	73	19.0	E.2	5.0
SEP													
10...	23.1	28.0	130	34.4	10.4	3.55	17.7	82	57	69	22.7	.2	5.1

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
OCT													
30...	79.5	282	.045	.36	.45	1.53	.052	.069	.065	.099	--	--	3.3
NOV													
28...	92.2	326	.109	.41	.39	1.53	.032	.077	.076	.091	.6	<.1	2.9
JAN													
10...	56.9	237	.146	.41	.43	1.59	.010	.049	.043	.085	.5	<.1	3.5
10...	--	--	<.002	--	--	<.005	<.001	--	<.007	--	--	--	--
FEB													
07...	57.0	227	.164	.36	.75	1.44	.016	.038	.026	.180	4.6	<.1	2.9
MAR													
06...	44.7	202	.062	.31	.69	1.47	.013	.035	.027	.166	3.0	<.1	2.5
06...	44.5	200	.063	.31	.52	1.48	.013	.035	.027	.163	2.9	.3	2.5
20...	57.1	205	.048	.23	.48	1.17	.016	.023	.018	.126	2.4	<.1	2.2
APR													
11...	57.3	216	<.040	.23	.87	1.15	.013	.021	.015	.090	2.0	<.1	2.0
11...	57.3	216	<.041	.23	.87	1.15	.013	.021	.015	.090	.2	<.1	.34
25...	59.9	233	E.026	.23	.46	1.39	.022	.032	.025	.121	1.4	<.1	2.7
25...	60.0	235	--	--	--	--	--	--	--	--	--	--	--
MAY													
08...	56.2	226	<.041	.23	.26	1.33	.017	.023	.012	.042	.6	--	2.5
22...	63.6	234	<.040	.25	1.4	1.79	.011	.043	.033	.546	13	1.2	2.8
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
05...	42.6	216	<.040	.37	.49	2.13	.035	.042	.035	.105	1.5	<.1	3.7
05...	--	--	.006	--	--	<.005	<.001	--	<.007	--	--	--	--
29...	58.5	243	E.021	.36	.33	1.60	.054	.086	.052	.065	.5	<.1	3.5
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
26...	70.4	250	<.040	.21	.22	1.07	.039	.043	.035	.055	.5	<.1	2.8
26...	70.3	250	<.040	.21	.23	1.05	.039	.043	.035	.054	.5	--	2.8
AUG													
29...	47.8	192	.041	.31	.34	.903	.054	.059	.048	.077	.5	<.1	3.1
SEP													
10...	55.4	211	<.040	.30	.29	.982	E.005	.055	.045	.077	.6	<.1	3.3

03303280 OHIO RIVER AT CANNELTON DAM, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	PHEO-PHYTIN A, PHYTO-PHYTON (UG/L) (62360)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)
OCT													
30...	--	1.4	1.4	--	--	E1.1	78	--	--	--	--	<10	--
NOV													
28...	.6	1.6	1.7	--	--	<2.0	88	--	--	--	--	<10	--
JAN													
10...	.5	.8	.3	--	--	.7	52	--	--	--	--	20	--
10...	--	--	--	<.3	<.20	--	<2	<.30	<.2	<.20	<.2	<3	<.30
FEB													
07...	4.6	3.8	1.6	--	--	.4	47	--	--	--	--	10	--
MAR													
06...	2.9	2.0	1.4	--	--	.4	27	--	--	--	--	10	--
06...	2.6	3.3	1.6	--	--	.4	26	--	--	--	--	10	--
20...	2.3	7.8	3.1	--	--	.3	31	--	--	--	--	20	--
APR													
11...	1.9	13	9.6	--	--	.4	35	--	--	--	--	M	--
11...	.2	--	--	--	--	.4	35	--	--	--	--	M	--
25...	1.3	4.5	2.6	--	--	.6	41	--	--	--	--	M	--
25...	--	--	--	--	--	.6	43	--	--	--	--	M	--
MAY													
08...	E.6	7.7	10.2	--	--	.6	39	--	--	--	--	<10	--
22...	12	20	8.3	--	--	.7	47	--	--	--	--	<10	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
05...	1.5	1.1	.8	--	--	.6	36	--	--	--	--	M	--
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	.5	1.3	2.1	--	--	.8	50	--	--	--	--	<10	--
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
26...	.5	2.2	3.4	--	--	.8	57	--	--	--	--	<10	--
26...	.5	2.1	3.1	--	--	.8	56	--	--	--	--	<10	--
AUG													
29...	.4	1.7	--	--	--	.8	56	--	--	--	--	<10	--
SEP													
10...	.6	1.9	--	--	--	1.0	59	--	--	--	--	<10	--

DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)
OCT													
30...	7.9	--	--	--	<2.4	--	293	<8.0	--	<.002	E.007	<.002	<.005
NOV													
28...	9.1	--	--	--	<2.4	--	352	<8.0	--	<.002	<.004	<.002	<.005
JAN													
10...	4.9	--	--	--	.5	--	257	1.9	--	<.002	.005	<.002	<.005
10...	--	<.1	<.2	<.50	--	<.2	<.10	--	6	--	--	--	--
FEB													
07...	4.8	--	--	--	.4	--	214	.7	--	<.002	<.004	<.002	<.005
MAR													
06...	3.0	--	--	--	E.3	--	180	.4	--	<.002	<.004	<.002	<.005
06...	2.8	--	--	--	.4	--	178	.4	--	<.002	<.004	<.002	<.005
20...	4.3	--	--	--	E.3	--	202	.5	--	<.002	<.004	.010	<.005
APR													
11...	4.9	--	--	--	.3	--	208	.5	--	<.002	<.004	<.002	<.005
11...	4.9	--	--	--	.3	--	208	.5	--	<.002	<.004	<.002	<.005
25...	4.8	--	--	--	.4	--	258	.9	--	<.002	.038	<.004	<.005
25...	5.1	--	--	--	.5	--	274	1.0	--	--	--	--	--
MAY													
08...	4.2	--	--	--	.5	--	243	.4	--	<.002	.053	<.002	<.005
22...	6.0	--	--	--	.4	--	281	.7	--	<.002	.348	.033	<.005
22...	--	--	--	--	--	--	--	--	--	<.002	E.003	<.002	<.005
JUN													
05...	3.0	--	--	--	.3	--	223	.4	--	<.002	.348	.010	<.005
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	5.4	--	--	--	.5	--	280	.6	--	<.002	.101	.006	<.005
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
26...	6.7	--	--	--	.5	--	266	.8	--	<.002	.012	<.002	<.005
26...	6.6	--	--	--	.6	--	270	.8	--	<.002	.013	<.002	<.005
AUG													
29...	4.0	--	--	--	.4	--	204	.8	--	<.002	<.006	<.002	<.005
SEP													
10...	5.6	--	--	--	.4	--	224	1.0	--	<.002	.009	<.008	<.005

03303280 OHIO RIVER AT CANNELTON DAM, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
OCT													
30...	.127	<.010	<.002	<.041	--	<.005	E.016	<.003	E.029	.006	<.005	<.021	<.020
NOV													
28...	.114	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.030	.005	<.005	<.021	<.002
JAN													
10...	.079	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.022	<.005	<.005	<.021	<.002
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
07...	.045	<.010	<.002	E.054	<.020	<.005	<.018	<.003	E.010	<.005	<.005	<.021	<.002
MAR													
06...	.021	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.011	<.005	<.005	<.021	<.002
06...	.020	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.011	<.005	<.005	<.021	<.002
20...	.026	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.007	<.005	<.005	<.021	<.002
APR													
11...	.019	<.010	<.002	E.004	<.020	<.005	<.018	<.003	E.007	E.002	<.005	<.021	<.002
11...	.019	<.010	<.002	E.004	<.020	<.005	<.018	<.003	E.007	E.002	<.005	<.021	<.002
25...	.204	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.016	E.004	<.005	<.021	<.002
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
08...	.154	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.010	.006	<.005	<.021	<.002
22...	2.17	<.010	<.002	<.050	<.200	<.007	E.011	<.003	<.006	.010	<.005	<.021	<.002
22...	E.004	<.010	<.002	<.041	E.307	<.005	<.018	<.003	<.006	<.005	<.005	<.021	<.005
JUN													
05...	2.36	<.010	<.002	E.002	<.020	<.005	<.018	<.003	E.218	<.005	<.005	<.021	<.002
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	.710	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.037	.006	<.005	<.021	<.002
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
26...	.184	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.026	E.005	<.005	<.021	<.002
26...	.189	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.028	E.004	<.005	<.021	<.002
AUG													
29...	.077	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.016	.005	<.005	<.021	<.002
SEP													
10...	.122	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.019	.008	<.005	<.021	<.002

DATE	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)
OCT													
30...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.049	<.006	<.002	<.007	<.003
NOV													
28...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.025	<.006	<.002	<.007	<.003
JAN													
10...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.025	<.006	<.002	<.007	<.003
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
07...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.038	<.006	<.002	<.007	<.003
MAR													
06...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.008	<.006	<.002	<.007	<.003
06...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.008	<.006	<.002	<.007	<.003
20...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.015	<.006	<.002	<.007	<.003
APR													
11...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.006	<.006	<.002	<.007	<.003
11...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.006	<.006	<.002	<.007	<.003
25...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.080	.033	<.002	<.007	<.003
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
08...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.100	.008	<.002	<.007	<.003
22...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.510	.032	<.002	<.007	<.003
22...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.003	<.006	<.002	<.007	<.003
JUN													
05...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.552	.026	<.010	<.007	<.003
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.173	<.006	<.002	<.007	<.003
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
26...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.038	<.006	<.002	<.007	<.003
26...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.039	<.006	<.002	<.007	<.003
AUG													
29...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.024	<.006	<.002	<.007	<.003
SEP													
10...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.028	<.006	<.002	<.007	<.003

03303280 OHIO RIVER AT CANNELTON DAM, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
OCT													
30...	<.007	<.002	<.010	<.006	<.011	E.016	<.004	<.010	<.011	<.023	.025	<.016	<.034
NOV													
28...	<.007	<.002	<.010	<.006	<.011	E.013	<.004	<.010	<.011	<.023	.013	<.016	<.034
JAN													
10...	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	.012	<.016	<.034
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
07...	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034
MAR													
06...	<.007	<.002	<.010	<.006	<.011	<.003	<.004	<.010	<.011	<.023	<.004	<.016	<.034
06...	<.007	<.002	<.010	<.006	<.011	E.003	<.004	<.010	<.011	<.023	E.004	<.016	<.034
20...	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034
APR													
11...	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	E.006	E.005	<.034
11...	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	E.006	E.005	<.034
25...	<.007	<.002	<.010	<.006	<.011	E.006	<.004	<.010	<.011	<.023	.041	<.016	<.034
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
08...	<.007	<.004	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	.021	<.016	<.034
22...	<.007	<.002	<.010	<.006	<.011	E.013	<.004	<.010	<.011	<.023	.341	<.016	<.034
22...	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034
JUN													
05...	<.007	<.002	<.010	<.006	<.011	E.011	<.004	<.010	<.011	<.023	.360	E.006	<.034
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	<.007	<.002	<.010	<.006	<.011	.043	<.004	<.010	<.011	<.023	.116	<.016	<.034
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
26...	<.007	<.002	<.010	<.006	<.011	.017	<.004	<.010	<.011	<.023	.042	E.009	<.034
26...	<.007	<.002	<.010	<.006	<.011	.016	<.004	<.010	<.011	<.023	.041	E.020	<.034
AUG													
29...	<.007	<.002	<.010	<.006	<.011	.018	<.004	<.010	<.011	<.023	.018	E.010	<.034
SEP													
10...	<.007	<.002	<.010	<.006	<.011	.024	<.004	<.010	<.011	<.023	.021	E.009	<.034

DATE	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT					
30...	<.017	<.005	<.002	96	9
NOV					
28...	<.017	<.005	<.002	97	5
JAN					
10...	<.017	<.005	<.002	98	8
10...	--	--	--	--	--
FEB					
07...	<.017	<.005	<.002	99	107
MAR					
06...	<.017	<.005	<.002	99	99
06...	<.017	<.005	<.002	--	--
20...	<.017	<.005	<.002	97	80
APR					
11...	<.017	<.005	<.002	98	47
11...	<.017	<.005	<.002	--	--
25...	<.017	<.005	<.002	99	80
25...	--	--	--	--	--
MAY					
08...	<.017	<.005	<.002	96	7
22...	<.017	<.005	<.002	91	508
22...	<.017	<.005	<.002	--	--
JUN					
05...	<.017	<.005	<.002	99	49
05...	--	--	--	--	--
29...	<.017	<.005	<.002	91	9
29...	--	--	--	--	--
JUL					
26...	<.017	<.005	<.002	99	7
26...	<.017	<.005	<.002	--	--
AUG					
29...	<.017	<.005	<.002	99	11
SEP					
10...	<.017	<.005	<.002	100	11

E Estimated
M Presence of material verified but not quantified

03306000 GREEN RIVER NEAR CAMPBELLSVILLE, KY

LOCATION.--Lat 37°14'25", long 85°20'50", Taylor County, Hydrologic Unit 05110001, on right bank on downstream side of pier of bridge on State Highway 55, 0.6 mi downstream from Green River Dam, 0.8 mi upstream from Pinch Creek, 6.9 mi south of Campbellsville, and at mile 305.1.

DRAINAGE AREA.--669 mi^2 (1,733 sq km).

WATER-QUALITY RECORDS

INSTRUMENTATION.--Temperature recorder.

REMARKS.--Records fair.

COOPERATION.--Nature Conservency.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 31.0°C, August. 3-5, 1964; minimum, 0.0°C, on many days during 1963-66.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 26.2°C, July 25, minimum, 3.0°C, Jan. 22.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.5	20.0	20.7	18.6	17.8	18.1	11.1	10.9	11.0	5.5	3.8	4.5
2	21.8	20.2	20.9	18.5	17.7	18.1	10.9	10.4	10.7	5.8	5.4	5.7
3	21.9	20.3	21.0	18.5	17.9	18.2	10.4	10.2	10.3	5.6	5.3	5.4
4	22.1	20.5	21.1	18.0	17.4	17.8	10.2	9.9	10.0	5.6	5.4	5.5
5	22.0	20.7	21.2	17.8	16.9	17.2	9.9	9.6	9.8	5.5	5.2	5.3
6	21.3	20.1	20.9	17.4	16.9	17.1	9.6	9.4	9.5	5.3	5.0	5.2
7	20.1	18.9	19.3	17.8	17.2	17.4	9.5	9.1	9.3	5.1	4.8	4.9
8	19.1	17.9	18.5	17.6	17.1	17.4	9.3	8.8	9.1	4.9	4.5	4.8
9	18.9	17.4	18.0	17.5	16.4	17.1	9.2	8.5	8.8	4.7	4.3	4.6
10	18.9	17.0	17.8	16.6	16.4	16.5	9.1	8.8	9.0	4.6	4.5	4.5
11	19.0	17.0	17.8	16.7	16.1	16.4	9.1	8.5	9.0	4.5	4.2	4.4
12	19.2	17.0	17.8	16.3	15.9	16.1	8.5	7.9	8.1	4.3	4.0	4.1
13	18.9	16.9	17.8	15.9	15.5	15.8	8.6	7.8	8.1	4.1	3.1	3.7
14	19.0	17.1	17.9	15.7	15.2	15.4	8.9	8.5	8.7	4.5	3.8	4.2
15	19.0	17.3	18.0	15.4	14.9	15.1	8.7	7.7	8.1	4.6	4.4	4.5
16	19.0	17.8	18.3	14.9	14.7	14.8	8.4	7.7	8.0	4.5	4.3	4.4
17	18.8	18.4	18.6	14.7	14.1	14.4	8.0	7.3	7.5	4.4	4.2	4.3
18	19.1	18.1	18.5	14.1	13.7	13.9	7.3	7.1	7.1	4.4	4.3	4.3
19	18.9	17.2	17.9	13.9	13.4	13.6	7.1	6.6	6.9	4.4	3.4	3.9
20	18.7	17.2	17.9	13.4	13.2	13.3	6.6	6.4	6.5	3.4	3.3	3.4
21	18.4	17.8	18.1	13.2	12.8	13.0	6.4	6.0	6.3	3.4	3.2	3.3
22	19.1	18.1	18.5	12.8	12.5	12.7	6.0	5.6	5.8	3.4	3.0	3.3
23	19.2	18.4	18.7	12.6	12.4	12.5	5.6	5.5	5.5	3.5	3.2	3.4
24	19.0	18.2	18.6	12.4	12.3	12.3	5.5	5.3	5.4	3.5	3.3	3.4
25	19.1	18.2	18.6	12.3	11.9	12.1	5.3	4.9	5.0	3.5	3.3	3.4
26	19.0	17.9	18.4	11.9	11.8	11.8	4.9	4.8	4.8	4.0	3.3	3.5
27	19.0	18.0	18.5	11.8	11.6	11.7	4.8	4.7	4.8	4.2	3.8	4.0
28	19.4	18.2	18.7	11.6	11.5	11.5	4.8	4.5	4.6	3.9	3.6	3.7
29	18.9	18.1	18.4	11.5	11.2	11.4	4.6	4.3	4.5	3.9	3.4	3.6
30	18.4	16.9	17.7	11.3	11.1	11.2	4.4	4.1	4.2	3.9	3.8	3.8
31	18.5	17.6	18.0	---	---	---	4.2	3.9	4.0	3.8	3.8	3.8
MONTH	22.1	16.9	18.8	18.6	11.1	14.8	11.1	3.9	7.4	5.8	3.0	4.2

03306000 GREEN RIVER NEAR CAMPBELLSVILLE, KY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.0	3.8	3.8	7.2	7.1	7.2	10.1	9.2	9.6	15.8	14.6	15.1
2	4.0	3.7	3.8	7.4	7.1	7.2	10.0	9.4	9.6	16.3	15.0	15.5
3	4.0	3.6	3.7	8.0	7.2	7.6	9.9	9.6	9.7	17.1	15.5	16.1
4	3.9	3.6	3.7	8.1	7.9	8.1	10.5	9.9	10.1	17.5	16.0	16.7
5	4.0	3.7	3.8	7.9	7.6	7.7	10.5	10.3	10.4	17.7	16.3	16.9
6	4.2	3.7	3.9	7.6	7.4	7.5	11.0	10.5	10.6	17.8	16.7	17.2
7	4.3	3.9	4.0	7.6	7.4	7.5	11.4	10.8	11.0	17.7	16.9	17.1
8	4.5	3.9	4.2	7.6	7.4	7.5	12.0	11.1	11.4	17.8	16.8	17.1
9	4.7	4.2	4.5	8.0	7.4	7.7	12.6	11.7	12.0	18.6	17.1	17.7
10	4.6	4.3	4.5	7.9	7.7	7.8	12.6	12.2	12.4	18.5	17.2	17.9
11	4.5	4.1	4.3	8.3	7.5	7.8	12.7	12.2	12.5	18.4	17.4	17.9
12	4.5	4.4	4.4	8.6	8.3	8.4	12.3	12.0	12.2	18.2	12.0	15.6
13	4.6	4.4	4.5	8.8	8.6	8.7	13.6	12.2	12.9	15.6	11.5	13.3
14	5.1	4.4	4.6	8.9	8.4	8.7	13.7	13.0	13.3	16.2	13.2	15.1
15	4.8	4.7	4.7	9.0	8.8	8.9	13.5	12.2	13.0	16.6	16.1	16.3
16	5.3	4.8	5.0	9.0	7.9	8.6	13.1	12.1	12.7	16.8	16.3	16.5
17	5.3	4.8	5.0	8.2	7.9	8.1	12.8	12.0	12.4	17.6	16.3	16.8
18	5.3	4.8	5.0	9.1	8.1	8.5	12.6	11.9	12.2	18.2	17.4	17.7
19	5.0	4.8	4.9	9.4	8.6	9.0	12.4	11.9	12.1	18.3	17.6	17.9
20	5.1	4.9	5.0	9.4	9.0	9.2	12.2	11.9	12.1	19.0	18.3	18.6
21	5.4	5.1	5.3	9.0	8.7	8.8	12.7	12.1	12.3	18.8	18.0	18.4
22	5.5	5.4	5.5	9.4	8.6	9.0	13.5	12.7	13.2	18.0	16.6	17.5
23	5.7	5.5	5.5	9.8	8.8	9.3	13.7	12.8	13.3	16.6	11.8	14.3
24	5.9	5.7	5.8	9.8	9.1	9.4	14.3	13.1	13.6	13.5	11.7	12.7
25	6.5	5.9	6.2	9.4	8.3	8.9	14.5	13.7	14.0	15.2	11.6	12.9
26	7.0	6.5	6.7	9.3	8.1	8.7	14.2	13.5	13.9	16.7	15.2	16.2
27	7.1	6.9	7.1	9.1	8.1	8.6	14.5	13.8	14.0	17.4	16.6	17.0
28	7.2	7.0	7.1	9.2	8.1	8.7	15.6	14.0	14.8	17.9	17.3	17.6
29	---	---	---	9.3	8.9	9.1	15.4	14.9	15.1	18.5	17.6	18.0
30	---	---	---	9.4	8.9	9.2	15.6	14.6	14.9	18.6	18.0	18.3
31	---	---	---	9.5	9.4	9.4	---	---	---	18.7	18.3	18.5
MONTH	7.2	3.6	4.9	9.8	7.1	8.4	15.6	9.2	12.4	19.0	11.5	16.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.7	18.3	18.5	23.7	22.7	23.1	23.9	23.5	23.7	25.3	24.4	24.7
2	18.5	17.8	18.0	24.0	23.0	23.4	23.9	23.5	23.7	25.2	24.3	24.8
3	18.5	17.9	18.1	24.4	23.2	23.7	24.5	23.6	23.9	24.9	24.5	24.6
4	18.3	18.2	18.2	24.0	23.2	23.6	24.9	13.2	21.3	25.2	24.2	24.6
5	18.4	11.8	14.9	23.6	22.9	23.2	14.5	12.9	13.8	25.6	24.4	24.9
6	12.3	11.8	12.0	24.2	22.9	23.5	14.8	14.5	14.7	25.8	24.7	25.2
7	14.0	11.6	12.5	23.8	23.0	23.5	14.6	13.3	14.0	25.4	24.7	25.0
8	14.3	12.9	13.7	24.6	23.5	23.9	22.2	13.0	16.5	25.5	24.5	24.9
9	12.9	12.0	12.5	24.6	23.9	24.1	23.1	22.2	22.7	25.3	24.6	24.9
10	12.4	12.0	12.2	24.7	21.9	23.7	23.9	22.7	23.4	25.2	24.1	24.6
11	18.3	11.8	14.5	25.2	23.7	24.4	24.6	23.6	24.0	25.2	23.7	24.4
12	18.9	17.5	18.2	25.0	23.9	24.4	25.0	24.4	24.6	25.2	23.7	24.4
13	18.5	17.0	17.6	25.0	23.8	24.4	25.5	24.7	25.1	25.0	23.7	24.3
14	20.3	18.2	19.2	24.9	23.4	24.2	25.7	25.0	25.3	24.5	23.5	23.9
15	20.2	19.6	19.9	24.9	23.5	24.2	25.7	24.7	25.4	23.9	22.7	23.2
16	21.0	19.9	20.3	24.9	23.8	24.3	24.7	23.9	24.2	23.7	22.4	23.0
17	21.1	19.8	20.4	24.7	23.9	24.3	24.6	24.1	24.3	23.4	22.4	22.9
18	21.2	20.4	20.8	24.4	23.9	24.1	24.7	23.9	24.2	23.3	22.5	22.9
19	21.5	20.6	21.0	24.6	23.9	24.2	24.8	24.0	24.3	23.1	22.5	22.7
20	22.1	21.4	21.7	24.7	24.4	24.5	24.6	23.5	24.0	22.9	22.1	22.5
21	22.1	21.8	21.9	25.2	24.3	24.7	24.8	23.6	24.1	22.8	21.7	22.2
22	22.0	21.7	21.9	25.3	24.7	25.0	24.9	23.8	24.3	22.9	21.8	22.3
23	22.0	20.9	21.4	25.8	24.9	25.2	25.2	24.3	24.6	23.1	21.8	22.3
24	22.8	21.8	22.2	26.1	25.0	25.5	25.2	24.5	24.8	22.7	21.5	22.0
25	23.2	22.1	22.6	26.2	25.4	25.7	25.6	24.6	25.0	21.5	20.6	20.9
26	23.0	22.3	22.6	25.6	25.0	25.2	25.6	24.7	25.1	21.1	19.8	20.4
27	23.0	22.2	22.6	25.8	25.0	25.4	25.2	24.7	24.9	21.2	19.8	20.4
28	23.1	22.4	22.7	25.8	25.2	25.5	25.4	24.6	24.9	20.9	19.8	20.4
29	23.2	22.4	22.8	25.4	24.9	25.1	25.6	24.6	25.0	20.7	19.6	20.1
30	23.7	22.6	23.0	25.2	23.5	24.3	25.5	24.5	25.0	20.6	19.4	20.0
31	---	---	---	24.0	23.4	23.7	25.1	24.6	24.7	---	---	---
MONTH	23.7	11.6	18.9	26.2	21.9	24.3	25.7	12.9	23.1	25.8	19.4	23.1
YEAR	26.2	3.0	14.8									

03306500 GREEN RIVER AT GREENSBURG, KY

LOCATION.--Lat 37°15'12", long 85°03'11", Green County, Hydrologic Unit 05110001, at bridge on State Highway 61 and 70, 300 ft upstream from Clover Lick Creek, 0.25 mi south of Greensburg, 2.6 mi upstream from Russell Creek, and at mile 279.7.

DRAINAGE AREA.--736 mi^2.

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--Water-temperature: December 22, 1999 to September 30, 2000.

GAGE.--Water-temperature recorder.

REMARKS.-Records good.

COOPERATION.--Green County.

EXTREMES FOR PERIOD OF DAILY RECORD.--Maximum water-temperature, 31.2°C , July 25, 2001; minimum water-temperature, 5.1°C , many days in winter months.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	20.5	18.0	19.1	16.3	15.0	15.7	10.1	9.5	9.8	2.4	1.6	2.0
2	21.4	18.8	19.9	16.9	15.3	16.1	10.1	9.2	9.8	2.3	1.1	1.8
3	22.4	19.9	21.0	18.0	16.8	17.4	9.2	8.7	9.0	1.1	.0	.5
4	22.8	20.4	21.5	17.6	15.9	16.8	9.0	8.6	8.8	1.7	.5	1.0
5	23.2	20.9	21.9	15.9	13.9	14.8	9.0	8.4	8.8	2.6	1.1	1.8
6	22.3	19.7	21.4	13.9	12.9	13.4	8.4	7.1	7.5	2.9	1.6	2.2
7	19.7	16.0	17.7	15.4	13.5	14.5	7.4	6.7	7.1	3.3	2.0	2.6
8	16.0	13.9	14.7	16.1	15.1	15.5	7.6	6.7	7.1	3.2	2.7	3.0
9	14.0	12.2	13.1	17.3	15.8	16.6	6.8	5.7	6.2	2.7	1.7	2.2
10	13.5	11.2	12.2	15.8	12.9	14.2	7.5	6.1	6.7	2.0	.8	1.4
11	13.4	11.0	12.1	12.9	12.3	12.6	9.0	7.5	8.1	1.5	.6	1.1
12	13.7	11.1	12.3	12.9	11.6	12.3	8.3	5.8	6.9	2.8	1.5	2.1
13	14.2	11.5	12.8	12.9	12.3	12.6	5.8	4.8	5.1	3.2	2.0	2.5
14	14.6	12.2	13.3	12.3	11.0	11.6	5.1	4.9	5.0	3.9	2.9	3.4
15	15.8	13.2	14.4	11.0	10.1	10.6	6.1	5.0	5.5	5.3	3.9	4.5
16	17.0	14.9	15.9	10.7	10.2	10.5	10.4	6.1	8.1	4.8	4.1	4.5
17	17.6	16.6	17.1	10.6	9.4	10.0	10.4	5.2	7.7	4.6	3.7	4.2
18	18.6	16.8	17.5	9.4	8.5	8.8	5.6	4.3	4.8	4.7	4.4	4.5
19	17.6	15.4	16.4	9.0	8.1	8.6	6.0	5.5	5.7	4.7	4.6	4.7
20	17.2	14.8	15.9	9.2	8.4	8.8	5.7	5.3	5.5	4.6	3.3	4.0
21	16.8	16.0	16.5	9.7	7.7	8.5	6.0	5.4	5.6	3.3	2.3	2.7
22	18.2	16.5	17.2	11.4	9.7	10.7	5.4	4.3	4.7	3.4	2.5	2.9
23	19.6	17.5	18.3	11.5	10.7	11.2	5.1	3.8	4.4	3.7	2.5	3.1
24	19.7	18.0	18.8	11.9	11.1	11.5	5.2	4.5	5.0	3.9	3.2	3.6
25	20.4	18.5	19.2	11.9	11.7	11.8	4.5	3.7	4.0	3.6	2.7	3.2
26	20.1	18.2	19.1	11.8	11.1	11.4	3.8	3.3	3.6	3.2	2.3	2.8
27	19.8	18.1	19.0	11.1	10.5	10.9	4.2	3.6	3.9	3.9	3.2	3.5
28	19.9	18.1	18.8	11.1	10.1	10.6	4.1	3.3	3.8	3.3	2.5	2.9
29	18.2	16.3	17.2	11.1	10.6	10.8	3.3	2.2	2.8	4.9	2.8	3.6
30	16.4	14.5	15.4	10.7	9.6	10.1	2.2	1.4	1.8	6.9	4.9	5.7
31	16.2	14.6	15.5	---	---	---	2.0	1.3	1.7	6.7	4.4	5.4
MONTH	23.2	11.0	16.9	18.0	7.7	12.3	10.4	1.3	6.0	6.9	.0	3.0

03306500 GREEN RIVER AT GREENSBURG, KY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.6	4.0	4.3	7.9	6.8	7.3	12.1	9.2	10.6	20.9	18.1	19.4
2	4.1	2.9	3.6	7.7	7.2	7.5	11.8	10.2	10.9	23.2	18.6	20.7
3	3.2	2.1	2.8	8.0	6.8	7.4	12.1	10.7	11.3	24.0	19.6	21.7
4	3.7	2.9	3.3	8.2	7.8	8.1	14.4	11.4	12.8	25.8	20.5	22.9
5	4.0	3.5	3.7	7.8	6.7	7.2	14.8	13.2	14.0	26.2	21.2	23.6
6	5.1	3.1	4.1	7.1	5.8	6.5	18.1	14.2	16.0	26.9	22.0	24.2
7	6.5	4.8	5.6	7.7	6.1	7.0	19.8	17.1	18.3	24.0	21.6	23.1
8	7.1	5.1	6.2	7.8	6.2	7.1	21.6	18.0	19.8	23.1	21.0	21.9
9	8.7	6.9	7.7	7.7	6.1	7.0	22.5	19.6	21.1	24.1	20.6	22.2
10	8.3	5.5	6.8	7.8	6.1	7.0	22.8	20.4	21.7	24.3	20.9	22.5
11	5.5	3.8	4.4	8.2	6.8	7.6	22.8	20.9	21.9	23.8	20.8	22.5
12	5.4	4.3	4.9	8.6	7.5	8.0	23.0	20.8	21.9	25.0	21.6	22.9
13	6.2	5.4	5.8	11.0	8.1	9.5	22.1	20.0	21.1	23.4	19.9	21.6
14	7.8	6.0	6.5	11.4	9.1	10.4	20.9	17.8	19.0	22.1	17.6	18.9
15	8.3	7.8	8.1	10.8	10.2	10.6	17.8	15.5	16.2	21.5	16.9	19.2
16	8.3	7.7	8.0	11.0	10.0	10.4	15.8	13.9	14.9	23.2	19.6	21.4
17	7.7	6.0	6.8	10.1	6.7	8.1	14.8	11.9	13.0	25.3	22.0	23.5
18	6.0	4.8	5.6	8.7	6.3	7.4	12.6	10.1	11.4	26.3	23.6	24.9
19	5.9	4.5	5.2	9.8	6.9	8.4	14.0	10.6	12.3	25.4	24.0	24.6
20	6.0	5.0	5.5	9.6	7.8	8.7	13.9	13.2	13.5	25.2	23.1	24.1
21	6.2	5.6	5.9	8.2	7.3	7.7	15.1	13.5	14.2	24.8	23.2	23.9
22	5.9	5.5	5.6	10.2	7.1	8.7	17.7	14.4	15.9	23.5	20.3	21.5
23	6.1	5.5	5.8	11.9	8.1	10.0	18.8	16.2	17.5	20.3	17.9	19.4
24	7.2	5.7	6.3	11.2	9.2	10.2	18.7	17.0	17.9	17.9	13.3	14.1
25	8.7	7.2	8.0	10.6	7.8	9.0	17.6	15.1	16.2	14.7	14.2	14.4
26	8.3	6.4	7.3	10.0	6.9	8.3	16.8	13.9	15.4	17.7	13.9	15.6
27	7.5	6.5	7.0	10.2	6.4	8.1	17.8	14.6	16.2	19.2	16.6	17.8
28	7.8	7.0	7.4	10.5	6.6	8.5	18.7	16.2	17.4	21.5	18.1	19.6
29	---	---	---	11.0	9.2	10.0	18.6	15.9	17.3	23.0	19.4	21.1
30	---	---	---	10.9	9.2	10.0	19.6	16.5	18.1	22.8	20.5	21.8
31	---	---	---	10.6	9.9	10.2	---	---	---	22.3	20.7	21.5
MONTH	8.7	2.1	5.8	11.9	5.8	8.4	23.0	9.2	16.3	26.9	13.3	21.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.6	19.9	20.8	27.0	24.2	25.6	29.0	27.2	28.1	26.8	24.3	25.3
2	19.9	18.2	19.1	26.9	25.1	26.0	28.6	26.9	27.8	26.5	22.9	25.0
3	20.0	17.8	19.0	28.4	24.6	26.4	28.0	26.4	27.1	26.0	24.3	25.2
4	19.9	18.2	19.2	27.3	23.2	25.8	27.7	25.6	26.5	26.8	24.3	25.4
5	21.3	19.1	20.0	25.8	23.2	24.4	27.2	17.7	25.3	27.4	24.1	25.5
6	21.0	16.1	19.0	27.0	23.8	25.3	17.7	16.2	16.7	28.9	23.1	25.9
7	16.1	15.0	15.7	26.2	24.1	25.2	17.0	16.2	16.6	29.0	25.3	26.6
8	16.2	13.9	15.2	28.8	25.1	26.9	17.7	16.8	17.2	28.7	24.9	26.4
9	16.0	14.4	15.2	29.1	27.0	27.9	19.4	16.5	17.8	28.1	25.0	26.2
10	16.3	15.1	15.5	30.2	27.2	28.5	24.8	19.4	22.4	27.1	23.9	25.5
11	19.0	15.3	16.9	30.6	27.6	29.1	25.8	24.5	25.1	25.5	21.7	23.7
12	20.2	17.0	18.6	29.0	26.3	27.3	27.2	24.9	25.9	26.7	20.2	23.1
13	24.8	19.8	22.2	27.4	24.4	25.9	28.1	25.5	26.7	27.1	21.3	23.5
14	27.9	23.6	25.6	27.4	23.7	25.6	28.1	25.9	27.0	23.2	19.8	21.1
15	27.4	25.2	26.3	27.5	23.8	25.7	28.0	25.5	26.8	24.3	17.5	20.1
16	26.4	24.7	25.5	27.9	24.3	26.1	27.2	25.8	26.6	23.9	17.7	19.9
17	26.1	23.4	24.7	28.4	25.4	26.9	27.7	25.3	26.5	22.6	18.2	20.3
18	26.0	23.5	24.7	27.6	26.1	26.9	27.1	25.0	25.9	22.4	19.3	20.9
19	26.2	23.5	24.8	28.7	26.4	27.5	27.1	24.7	25.6	21.6	21.0	21.3
20	27.0	24.2	25.4	28.6	27.4	27.9	26.7	23.7	25.1	22.7	20.5	21.5
21	26.8	24.5	25.7	29.1	26.4	27.6	26.6	23.2	24.9	22.8	20.4	21.5
22	26.0	23.6	24.7	29.9	27.1	28.4	27.5	23.8	25.5	23.7	20.9	22.0
23	24.5	22.2	23.3	30.5	27.8	29.1	28.7	25.7	27.0	24.1	20.8	22.2
24	25.2	22.2	23.6	30.9	27.9	29.4	27.7	26.6	27.1	22.1	19.8	21.3
25	25.7	22.7	24.1	31.2	28.6	29.8	29.5	25.9	27.4	19.8	17.3	18.6
26	25.5	23.2	24.4	29.9	28.0	28.8	29.7	26.3	27.6	18.5	15.9	17.0
27	25.7	23.2	24.4	28.1	26.6	27.3	27.7	25.7	26.9	18.5	15.5	16.8
28	25.8	23.8	24.7	27.9	26.5	27.0	27.8	25.0	26.2	18.6	15.8	17.0
29	25.5	23.6	24.6	28.3	26.3	27.1	27.8	24.9	26.1	18.1	15.6	16.7
30	26.7	23.8	25.1	29.6	26.4	27.9	28.0	24.4	26.4	18.3	15.4	16.6
31	---	---	---	29.7	27.1	28.4	26.5	25.2	25.8	---	---	---
MONTH	27.9	13.9	21.9	31.2	23.2	27.2	29.7	16.2	25.1	29.0	15.4	22.1
YEAR	31.2	.0	15.6									

03307000 RUSSELL CREEK NEAR COLUMBIA, KY

WATER DISCHARGE RECORDS

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

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

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

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

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

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)

No peak greater than base discharge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	e10	17	e40	191	319	260	55	49	29	42	6.0
2	7.9	e11	16	e38	150	275	331	54	87	28	30	7.7
3	7.4	e11	17	e36	124	238	1050	53	76	26	29	8.9
4	7.2	e10	19	e34	110	285	925	51	2330	36	529	10
5	6.3	e10	20	e34	104	476	571	49	1010	125	187	13
6	7.0	e12	20	e33	95	359	419	47	457	133	84	21
7	8.2	16	20	e33	87	277	321	45	274	84	53	15
8	11	19	19	e33	79	234	251	51	193	47	38	11
9	14	150	18	e32	77	203	204	101	137	36	30	7.6
10	11	209	18	e32	265	173	173	74	102	33	25	6.7
11	8.5	65	19	e31	250	154	150	55	82	34	24	6.7
12	7.5	37	21	e31	176	142	129	57	70	28	28	6.8
13	7.3	28	23	e30	148	162	128	69	61	24	31	6.2
14	8.1	23	172	e30	300	158	133	59	55	21	25	5.5
15	7.9	20	140	e30	1850	151	116	44	51	19	19	5.0
16	7.5	18	e700	e29	2030	246	125	38	59	17	16	4.5
17	8.7	17	e1600	e28	2400	244	101	35	60	16	14	4.3
18	8.4	17	e800	e28	911	197	87	32	45	16	13	4.2
19	e8.2	16	e400	1140	634	167	82	57	42	17	13	8.2
20	e8.0	15	239	1130	487	281	78	e100	37	37	12	33
21	e8.4	13	175	615	383	875	77	e200	35	61	11	37
22	e8.6	12	128	421	491	544	74	e400	34	46	9.8	27
23	e8.8	12	100	326	550	393	69	e200	38	28	8.6	17
24	e8.6	12	e88	281	420	307	65	e120	38	22	7.3	14
25	e9.0	19	e74	e200	872	246	63	83	32	27	6.7	15
26	e10	27	e64	e160	747	202	59	78	30	104	6.4	18
27	e14	29	e58	e140	530	171	57	56	29	93	6.4	18
28	e12	24	e52	e120	406	149	57	44	43	51	6.4	16
29	e9.6	21	e46	e110	---	140	57	38	43	51	6.4	14
30	e8.8	18	e44	e100	---	136	56	35	31	88	6.0	12
31	e9.4	---	e42	272	---	140	---	32	---	66	5.9	---
TOTAL	275.9	901	5169	5597	14867	8044	6268	2412	5630	1443	1322.9	379.3
MEAN	8.90	30.0	167	181	531	259	209	77.8	188	46.5	42.7	12.6
MAX	14	209	1600	1140	2400	875	1050	400	2330	133	529	37
MIN	6.3	10	16	28	77	136	56	32	29	16	5.9	4.2
CFSM	.05	.17	.96	1.04	3.07	1.50	1.21	.45	1.08	.27	.25	.07
IN.	.06	.19	1.11	1.20	3.20	1.73	1.35	.52	1.21	.31	.28	.08

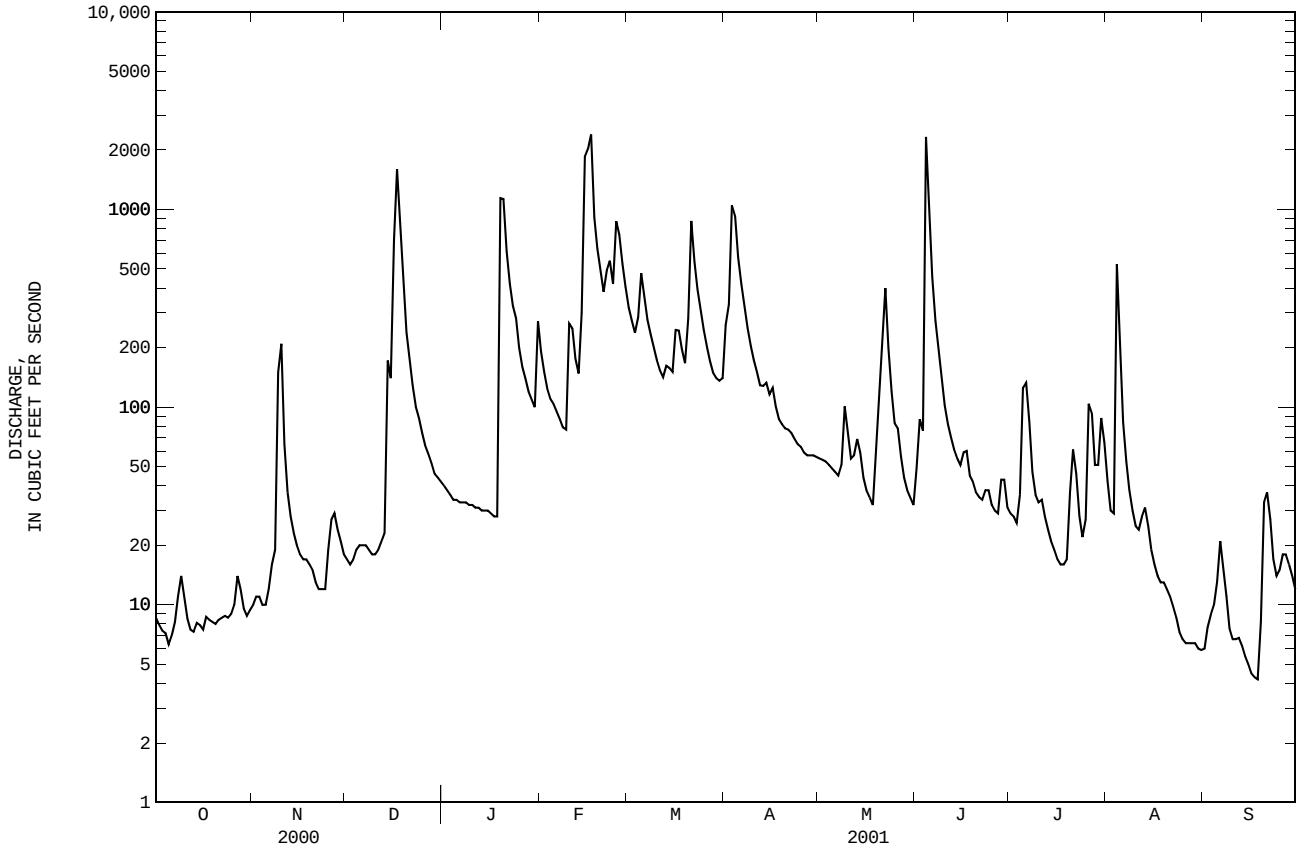
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	71.1	202	401	476	577	580	388	271	198	125	86.1	107
MAX	636	1047	2540	1779	1588	1787	856	1464	800	751	502	1114
(WY)	1976	1952	1979	1950	1989	1975	1972	1983	1950	1967	1967	1979
MIN	1.38	8.92	18.6	26.5	61.1	91.0	70.1	39.8	14.6	10.0	4.25	2.09
(WY)	1954	1954	1954	1981	1941	1941	1986	1941	1988	1944	1991	1953

03307000 RUSSELL CREEK NEAR COLUMBIA, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL TOTAL	48177.5		52309.1			
ANNUAL MEAN	132		143		289	
HIGHEST ANNUAL MEAN					651	1979
LOWEST ANNUAL MEAN					118	1941
HIGHEST DAILY MEAN	6400	Mar 20	2400	Feb 17	25000	Dec 9 1978
LOWEST DAILY MEAN	3.5	Sep 22	4.2	Sep 18	.40	Sep 25 1952
ANNUAL SEVEN-DAY MINIMUM	5.0	Sep 18	5.2	Sep 12	.47	Oct 19 1953
MAXIMUM PEAK FLOW			4050	Jun 4	40600	Sep 1 1982
MAXIMUM PEAK STAGE			12.27	Jun 4	26.12	Sep 1 1982
INSTANTANEOUS LOW FLOW					5.7	Sep 2 1993
ANNUAL RUNOFF (CFSM)	.76		.83		1.67	
ANNUAL RUNOFF (INCHES)	10.36		11.25		22.69	
10 PERCENT EXCEEDS	266		342		624	
50 PERCENT EXCEEDS	46		43		100	
90 PERCENT EXCEEDS	9.0		8.5		15	

e Estimated



03307000 RUSSELL CREEK NEAR COLUMBIA, KY--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--December 22, 1999 to September 30, 2000.

GAGE.--Water-temperature recorder.

REMARKS.-Records fair.

COOPERATION.--Nature Conservancy and Green County.

EXTREMES FOR CURRENT YEAR.--Maximum water-temperature, 30.0°C , July 25, minimum water-temperature, 0.0°C, Jan. 9, 10.

EXTREMES FOR PERIOD OF DAILY RECORD.--Maximun water-temperature, 30.0°C , July 14, 2000, July 25, 2001; minimum water-temperature 30.0°C, Jan. 27, 28, 2000, Jan. 9, 10, 2001.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	20.4	12.2	16.1	16.8	13.4	14.8	4.4	2.2	3.6	.4	.2	.3
2	22.5	13.9	17.9	18.0	13.9	15.7	4.3	2.4	3.8	.3	.2	.2
3	24.6	15.1	19.2	17.7	15.5	16.4	3.1	1.4	2.3	.3	.2	.2
4	24.7	14.9	19.1	15.7	13.5	15.0	2.9	1.5	2.3	.4	.2	.3
5	26.8	15.1	20.5	13.9	10.6	12.6	3.4	1.9	2.5	.6	.2	.3
6	19.3	11.4	16.3	12.2	10.1	11.3	2.0	1.3	1.7	.6	.2	.3
7	14.0	6.2	10.8	15.9	12.2	13.9	3.0	1.3	2.2	.7	.1	.3
8	12.5	10.5	11.4	15.5	14.3	14.8	3.7	2.2	2.9	.6	.3	.4
9	11.4	9.2	10.3	16.2	14.9	15.5	3.0	1.4	2.3	.9	.0	.4
10	11.6	8.3	9.8	14.9	11.9	13.4	4.8	2.6	3.8	.4	.0	.2
11	12.3	7.9	9.7	12.2	10.5	11.5	7.1	4.7	5.6	.2	.1	.2
12	15.1	6.3	10.0	11.2	9.3	10.2	5.7	2.3	3.7	1.1	.2	.6
13	16.1	4.8	9.7	10.3	8.8	9.9	3.3	1.8	2.4	1.7	.3	.9
14	15.9	7.4	11.4	8.8	7.3	7.9	3.9	3.2	3.6	2.3	.8	1.5
15	17.7	10.2	13.3	7.7	6.2	7.0	4.8	3.5	4.0	4.0	2.3	3.1
16	18.6	11.7	15.0	7.2	6.5	6.8	5.9	4.8	5.6	3.7	2.5	3.0
17	18.5	15.1	16.5	7.0	5.0	5.8	---	---	---	3.8	2.3	3.1
18	18.0	12.7	15.5	5.0	3.2	4.3	---	---	---	4.1	3.4	3.8
19	16.0	10.9	13.7	5.3	3.4	4.4	3.3	2.2	3.1	5.0	4.0	4.6
20	17.6	12.0	14.4	4.5	2.6	3.9	2.2	1.5	1.8	5.0	4.1	4.6
21	17.8	13.9	15.6	2.7	.8	1.8	1.8	1.2	1.5	4.1	2.5	3.1
22	19.9	15.3	16.8	1.5	.2	.8	1.2	.3	.5	3.1	2.1	2.6
23	19.8	16.3	17.5	3.9	.5	2.0	.4	.3	.4	3.3	1.9	2.7
24	19.9	16.5	17.8	5.3	2.2	4.0	1.0	.3	.5	4.3	2.8	3.5
25	19.7	16.7	18.0	7.3	5.3	6.3	.5	.3	.4	3.9	2.8	3.3
26	19.4	16.5	17.7	7.3	6.7	6.9	.5	.3	.4	2.8	1.9	2.2
27	18.8	16.3	17.5	7.0	5.6	6.3	.6	.4	.4	2.9	2.1	2.4
28	18.9	16.6	17.5	6.5	4.5	5.6	.6	.3	.4	2.5	1.5	2.0
29	16.8	14.1	15.6	7.0	5.5	6.2	.4	.2	.3	4.1	1.9	2.9
30	15.3	12.4	13.7	6.0	4.1	5.1	.3	.2	.3	7.1	4.1	5.7
31	16.0	12.8	14.1	---	---	---	.4	.3	.3	7.2	6.6	6.9
MONTH	26.8	4.8	14.9	18.0	.2	8.7	---	---	---	7.2	.0	2.1

03307000 RUSSELL CREEK NEAR COLUMBIA, KY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.6	5.4	6.2	8.7	7.1	8.0	11.1	8.7	9.9	21.3	17.5	19.4
2	5.4	3.3	4.6	9.3	8.0	8.6	10.7	9.4	10.0	22.2	17.6	19.7
3	3.6	2.1	2.8	9.6	8.1	8.9	11.2	9.7	10.4	23.0	18.2	20.4
4	3.4	2.1	2.7	9.4	8.3	9.0	13.3	10.8	11.9	24.0	18.8	21.2
5	3.5	2.5	2.9	8.3	6.1	7.3	14.3	12.8	13.5	23.9	19.0	21.4
6	4.8	2.4	3.5	6.1	4.8	5.5	16.8	14.1	15.3	24.3	20.4	22.0
7	6.8	4.4	5.5	7.0	4.7	5.8	18.7	16.3	17.4	22.0	19.9	21.0
8	8.2	5.3	6.7	7.6	5.2	6.4	20.5	17.3	18.8	21.3	19.3	20.1
9	10.5	7.8	9.1	7.8	5.7	6.7	21.5	18.7	20.1	21.7	19.2	20.3
10	9.6	6.8	8.1	8.0	5.4	6.7	21.5	19.6	20.6	22.1	18.8	20.3
11	6.8	5.1	5.7	8.9	5.9	7.4	21.5	19.8	20.7	21.5	18.8	20.2
12	6.3	5.2	5.7	8.7	7.5	8.2	22.0	19.9	20.8	22.6	19.8	20.8
13	7.8	6.3	7.0	11.0	8.5	9.7	21.9	19.5	20.5	22.0	18.0	19.8
14	10.5	7.8	8.9	11.4	9.2	10.3	20.2	18.4	19.4	20.9	17.4	19.0
15	10.8	10.3	10.6	10.6	10.0	10.3	18.9	17.0	18.1	23.4	17.5	20.2
16	10.8	9.3	10.3	10.2	9.6	10.0	17.7	15.6	16.5	24.5	19.7	22.0
17	9.3	7.1	8.0	9.6	7.7	8.6	15.7	12.0	13.7	25.1	21.3	23.0
18	7.1	5.9	6.3	9.4	6.8	8.0	13.8	10.3	11.9	26.1	21.8	23.8
19	7.2	5.5	6.4	9.5	7.0	8.4	14.6	10.4	12.3	23.7	21.5	22.7
20	8.3	6.8	7.4	9.3	7.2	8.4	13.5	12.7	13.1	23.1	21.3	22.3
21	9.3	8.2	8.6	7.5	6.3	6.9	16.1	13.4	14.5	---	---	---
22	8.3	6.4	7.3	9.0	6.8	8.0	19.1	14.9	16.7	---	---	---
23	6.9	5.7	6.3	10.6	8.0	9.4	20.5	17.1	18.7	---	---	---
24	9.6	6.8	7.9	10.5	8.8	9.6	20.4	17.0	18.6	18.1	17.3	17.6
25	12.3	9.6	11.1	9.6	7.3	8.4	18.8	14.5	16.5	19.2	16.4	17.6
26	11.7	10.0	10.6	8.7	6.3	7.5	19.0	13.1	15.8	19.5	16.6	18.0
27	10.0	8.4	8.9	8.7	5.8	7.2	19.9	13.7	16.5	20.3	17.5	18.8
28	9.0	7.8	8.4	8.8	5.9	7.5	20.6	15.4	17.6	21.2	17.3	19.1
29	---	---	---	9.4	8.2	8.7	20.7	14.4	17.3	23.0	17.8	20.1
30	---	---	---	9.7	8.1	9.0	21.7	15.5	18.4	22.3	18.5	20.4
31	---	---	---	9.9	9.2	9.5	---	---	---	21.3	18.8	20.1
MONTH	12.3	2.1	7.1	11.4	4.7	8.2	22.0	8.7	16.2	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20.7	18.5	20.0	26.1	22.4	24.0	29.2	25.3	27.1	26.0	22.9	24.3
2	19.1	17.6	18.2	25.4	23.5	24.3	29.4	26.0	27.6	25.2	22.2	23.8
3	19.3	16.8	18.1	27.8	22.7	25.0	27.7	25.9	26.5	24.5	23.0	23.7
4	18.3	16.6	17.5	26.4	23.9	24.9	26.1	24.2	25.0	26.7	22.3	24.3
5	18.8	17.3	18.0	25.6	23.3	24.2	26.3	24.0	25.1	27.2	22.7	24.8
6	20.5	18.3	19.3	25.8	22.6	24.0	28.1	25.1	26.3	26.4	22.8	24.7
7	21.3	20.0	20.5	24.8	22.5	23.7	28.7	25.4	26.9	27.2	23.8	25.5
8	23.0	20.5	21.5	27.9	23.6	25.6	29.1	25.8	27.3	27.7	23.8	25.6
9	23.5	20.5	21.9	27.7	25.2	26.2	28.4	26.2	27.3	28.3	23.6	25.7
10	23.7	20.3	21.8	29.4	25.5	27.0	27.6	25.9	26.6	25.1	21.8	23.5
11	24.4	20.5	22.3	28.8	25.7	26.9	26.9	25.4	25.9	24.9	19.5	21.9
12	26.0	21.6	23.6	25.8	23.5	24.6	27.8	24.6	26.0	25.7	18.7	21.9
13	27.2	22.7	24.7	25.7	21.9	23.7	28.5	24.8	26.3	26.1	20.3	22.7
14	28.2	23.9	25.8	25.7	20.8	23.3	27.8	24.1	25.8	22.0	19.0	20.7
15	27.2	24.5	25.4	26.1	20.9	23.5	27.0	23.3	25.2	22.1	16.2	19.0
16	27.6	23.8	25.3	26.6	21.7	24.3	26.4	23.6	25.1	22.9	15.9	18.7
17	27.9	23.0	25.1	27.9	23.7	25.8	27.4	23.4	25.0	24.5	16.9	20.0
18	27.9	22.8	25.0	26.2	24.2	25.2	26.6	23.1	24.5	25.0	17.4	20.8
19	28.0	23.1	25.3	27.6	24.5	26.2	28.0	23.4	24.5	20.5	19.2	19.7
20	27.7	24.1	25.7	26.7	24.9	25.7	25.1	20.7	23.1	21.2	18.3	19.6
21	26.8	24.2	25.4	27.0	24.0	25.5	27.1	20.1	23.0	21.2	18.0	19.6
22	25.1	21.6	23.5	28.2	25.0	26.5	28.3	21.6	24.4	22.0	18.4	20.0
23	24.3	20.1	22.1	29.5	25.7	27.3	29.4	24.2	26.4	22.8	17.4	20.0
24	25.4	21.0	22.9	29.9	25.9	27.8	26.6	24.4	25.5	20.3	16.9	18.7
25	25.0	20.9	22.9	30.0	26.9	28.1	28.1	24.2	25.8	16.9	13.8	15.3
26	23.9	21.1	22.7	27.8	25.9	26.8	29.7	24.2	26.5	16.1	11.8	13.8
27	25.3	21.0	23.1	26.3	25.5	25.9	26.5	24.4	25.3	16.5	11.9	14.1
28	24.6	22.5	23.4	26.5	25.1	25.7	27.2	23.3	24.9	17.1	12.0	14.4
29	25.2	22.0	23.6	27.4	24.8	25.9	28.0	23.7	25.4	17.3	11.8	14.4
30	25.3	22.8	23.8	28.3	25.4	26.6	27.8	23.7	25.4	19.1	12.0	14.8
31	---	---	---	29.1	25.6	27.0	24.9	23.4	24.1	---	---	---
MONTH	28.2	16.6	22.6	30.0	20.8	25.5	29.7	20.1	25.6	28.3	11.8	20.5
YEAR	30.0	.0	14.6									

03308500 GREEN RIVER AT MUNFORDVILLE, KY

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

DRAINAGE AREA.--1,673 mi^2, of which about 180 mi^2 does not contribute directly to surface runoff.

WATER DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 451.70 ft above NGVD of 1929. See WRD-KY-90-1 for history of changes prior to Nov. 29, 1940.

REMARKS.-Records good. Flow regulated by Green River Lake beginning February 1969 (station 03305990).

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

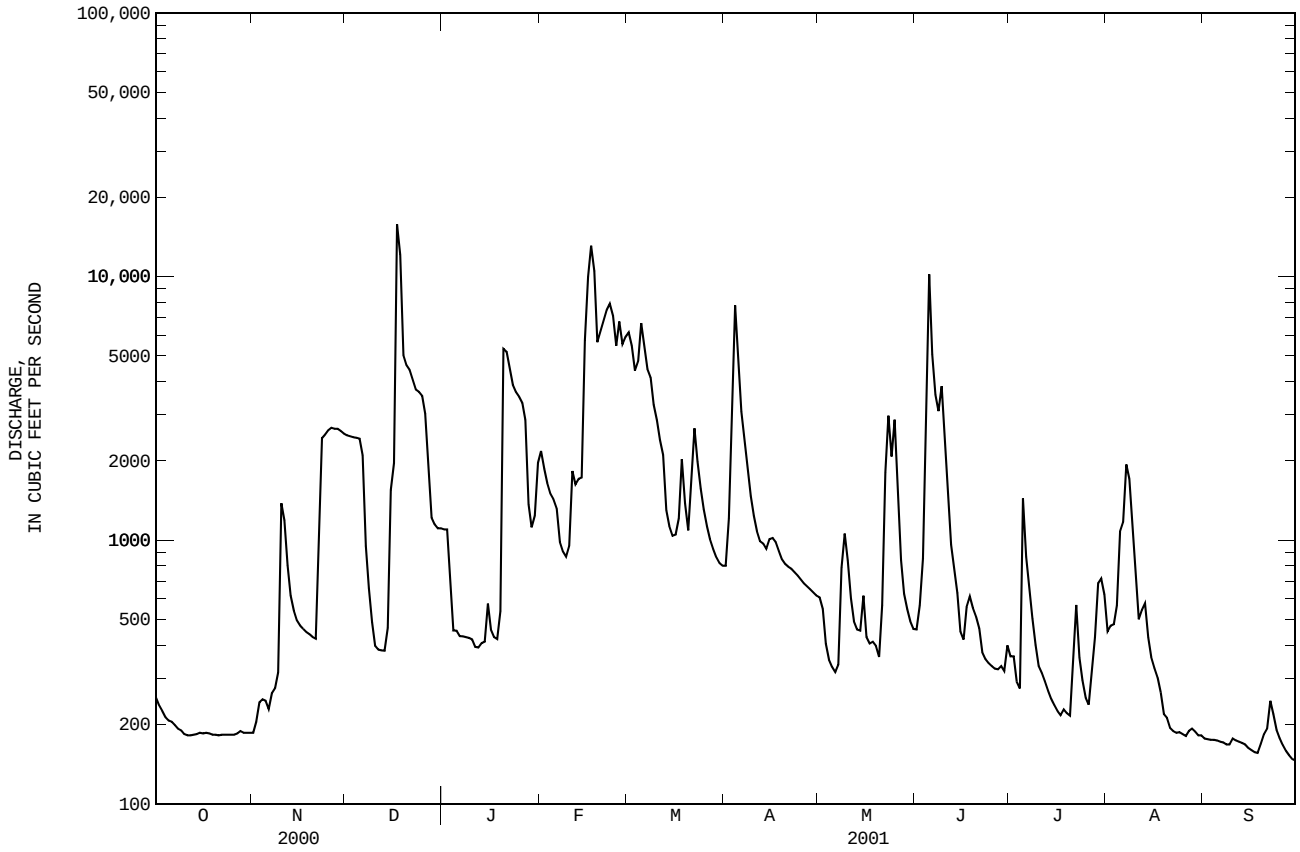
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	253	186	2500	1100	2180	6140	800	608	459	363	451	177
2	236	205	2480	1100	1870	5480	1210	549	566	363	474	176
3	225	243	2460	709	1650	4400	3120	405	853	291	480	175
4	213	249	2450	455	1500	4780	7780	352	2710	274	565	175
5	207	246	2430	454	1430	6660	4860	331	10200	1440	1080	174
6	205	229	2100	433	1320	5390	3080	316	5070	866	1170	172
7	199	263	952	432	984	4470	2330	337	3560	667	1940	171
8	193	275	658	429	906	4150	1850	786	3090	506	1710	168
9	190	315	489	426	866	3270	1470	1060	3840	400	1020	168
10	184	1380	398	420	949	2860	1240	839	2410	334	684	177
11	182	1190	385	394	1830	2410	1080	602	1450	314	501	174
12	182	803	382	392	1630	2110	992	492	960	292	544	172
13	183	617	381	407	1710	1300	971	458	787	269	576	170
14	184	541	465	412	1730	1130	927	454	630	251	428	168
15	186	497	1550	575	5740	1040	1010	616	451	237	360	163
16	185	475	1960	458	10000	1050	1020	430	420	225	327	160
17	186	461	15800	429	13100	1210	985	406	558	217	301	157
18	185	449	12100	422	10500	2030	909	412	612	228	265	156
19	183	440	5040	538	5640	1380	847	398	554	221	219	169
20	183	430	4620	5330	6200	1090	813	361	513	216	212	184
21	182	423	4430	5190	6800	1590	794	567	463	357	194	193
22	183	864	4070	4450	7480	2660	779	1810	376	568	189	246
23	183	2440	3730	3890	7890	1990	756	2970	354	359	186	219
24	183	2520	3660	3650	7110	1570	735	2080	342	294	187	191
25	183	2610	3530	3510	5470	1310	710	2870	333	253	184	178
26	183	2670	3020	3320	6760	1130	686	1450	326	238	181	167
27	185	2650	1890	2860	5550	1010	668	842	324	321	189	159
28	189	2650	1220	1370	5910	927	652	627	333	428	193	153
29	186	2600	1150	1120	---	861	634	547	319	687	188	148
30	186	2540	1110	1240	---	820	617	493	399	716	182	146
31	186	---	1110	1970	---	800	---	461	---	622	182	---
TOTAL	5973	31461	88520	47885	124705	77018	44325	24929	43262	12817	15362	5206
MEAN	193	1049	2855	1545	4454	2484	1478	804	1442	413	496	174
MAX	253	2670	15800	5330	13100	6660	7780	2970	10200	1440	1940	246
MIN	182	186	381	392	866	800	617	316	319	216	181	146

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2001, BY WATER YEAR (WY)

MEAN	1261	2370	4002	4616	5494	4971	3601	3183	2340	1067	861	1197
MAX	5337	5187	12800	12130	13610	12040	8632	13250	7209	3132	3642	6104
(WY)	1976	1978	1979	1974	1989	1975	1994	1983	1997	1973	1977	1979
MIN	193	210	545	255	1952	1066	552	487	214	280	202	152
(WY)	2001	1972	1981	1981	1992	1983	1986	1988	1988	1993	1993	1999

03308500 GREEN RIVER AT MUNFORDVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1970 - 2001	
ANNUAL TOTAL	535276		521463			
ANNUAL MEAN	1463		1429		2900	
HIGHEST ANNUAL MEAN					5285	1979
LOWEST ANNUAL MEAN					1233	2000
HIGHEST DAILY MEAN	17900	Mar 21	15800	Dec 17	62800	May 8 1984
LOWEST DAILY MEAN	182	Oct 11	146	Sep 30	139	Sep 11 1999
ANNUAL SEVEN-DAY MINIMUM	183	Oct 19	163	Sep 24	142	Sep 9 1999
MAXIMUM PEAK FLOW			17300	Dec 17	76800	Mar 1 1962
MAXIMUM PEAK STAGE			23.45	Dec 17	57.72	Mar 1 1962
INSTANTANEOUS LOW FLOW					157	Jul 8 1988
10 PERCENT EXCEEDS	3750		3860		6990	
50 PERCENT EXCEEDS	627		568		1420	
90 PERCENT EXCEEDS	230		183		277	



03308500 GREEN RIVER AT MUNFORDVILLE, KY--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--WATER-TEMPERATURE; Water years 1950-77, 1980, 1983-90, August 1992 to September 1994, December 22, 1999 to September 30, 2000.

GAGE.--Water-temperature recorder.

REMARKS.-Records fair.

COOPERATION.--Nature Conservancy.

EXTREMES FOR PERIOD OF DAILY RECORD.--Maximum daily, 29°C, July 13-17, 1980; minimum daily 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--Maximum water_temperature 27.4°C , Aug. 23; minimum water_temperature 1.7°C , Jan. 11.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.4	13.9	16.1	18.6	12.9	15.2	9.4	8.8	9.0	3.5	3.3	3.4
2	20.3	15.2	17.6	18.4	13.2	15.7	8.8	8.4	8.6	3.3	3.0	3.2
3	21.1	16.2	18.5	16.7	15.5	16.3	8.4	7.8	8.1	3.1	1.8	2.3
4	21.9	16.7	19.0	16.0	13.4	14.7	7.8	7.4	7.6	2.1	1.8	1.9
5	21.8	17.5	19.5	13.4	10.6	12.0	7.4	7.2	7.2	2.0	1.9	1.9
6	20.0	13.4	17.1	12.3	8.4	10.7	7.2	6.4	6.9	2.3	1.9	2.0
7	13.4	9.0	10.7	14.8	12.3	13.8	6.4	5.9	6.1	2.5	2.1	2.2
8	10.0	6.4	8.3	14.5	14.0	14.2	6.1	5.8	6.1	2.9	2.5	2.8
9	10.4	5.2	8.0	---	---	e14.9	5.8	4.8	5.1	2.8	2.4	2.5
10	11.7	4.7	8.2	---	---	e12.5	5.9	5.0	5.3	2.4	2.1	2.2
11	12.0	5.7	9.0	12.0	11.5	11.7	7.3	5.9	6.6	2.1	1.7	1.8
12	13.0	6.5	9.8	11.6	10.7	11.0	6.8	3.9	4.9	2.4	1.8	2.0
13	13.9	7.2	10.5	10.9	10.4	10.9	4.2	3.6	3.9	2.8	2.4	2.6
14	14.4	8.4	11.5	10.4	8.5	9.3	4.7	3.9	4.2	3.5	2.8	3.0
15	15.9	10.8	13.2	8.5	7.7	7.9	4.7	4.4	4.5	4.2	3.5	4.0
16	16.7	13.3	15.2	8.2	7.7	7.9	8.0	4.6	5.5	4.3	4.0	4.2
17	16.7	15.3	16.0	8.2	6.4	7.3	9.3	8.0	9.0	4.0	3.8	3.9
18	16.8	13.4	15.4	6.4	5.3	5.6	8.4	6.1	7.2	4.5	4.0	4.2
19	15.5	10.1	13.1	5.6	5.0	5.3	6.1	4.4	5.2	4.9	4.5	4.6
20	16.3	10.5	13.4	5.8	5.4	5.7	4.4	4.2	4.3	4.8	4.5	4.7
21	15.2	14.0	14.7	5.4	4.3	4.6	4.3	4.1	4.2	4.8	3.8	4.4
22	16.2	14.3	15.4	4.6	3.8	4.2	4.2	3.4	3.8	3.8	3.0	3.3
23	18.4	15.0	16.5	5.6	4.6	5.1	3.4	2.6	2.9	3.3	2.8	3.1
24	20.2	15.0	17.2	6.9	5.6	6.3	3.7	3.1	3.5	3.8	3.2	3.5
25	20.5	15.0	17.6	8.2	6.9	7.5	3.7	3.1	3.4	3.8	3.6	3.7
26	20.2	14.6	17.3	9.2	8.2	8.7	3.2	2.8	3.0	3.6	3.0	3.1
27	20.0	14.7	17.0	9.7	9.2	9.5	4.0	3.1	3.6	3.3	2.9	3.0
28	20.2	15.9	17.6	9.7	9.5	9.6	4.5	4.0	4.2	3.8	3.3	3.6
29	16.6	11.5	14.2	9.7	9.5	9.5	4.5	4.2	4.4	4.1	3.6	3.9
30	15.7	9.1	12.7	9.7	9.4	9.5	4.6	3.8	4.1	5.1	4.1	4.7
31	17.9	12.3	14.6	---	---	---	3.9	3.5	3.7	5.9	5.1	5.5
MONTH	21.9	4.7	14.4	18.6	3.8	9.9	9.4	2.6	5.4	5.9	1.7	3.3

03308500 GREEN RIVER AT MUNFORDVILLE, KY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.1	5.9	6.0	8.2	7.8	8.0	9.1	8.5	8.8	15.7	14.3	15.0
2	6.0	4.6	5.3	8.4	7.8	8.1	9.4	8.6	9.0	16.6	15.4	15.8
3	4.6	4.1	4.3	8.6	8.2	8.4	11.9	9.4	10.4	17.3	15.8	16.5
4	4.6	4.4	4.5	8.9	8.4	8.6	12.3	11.5	11.8	17.8	16.3	17.1
5	4.7	4.5	4.6	8.9	8.5	8.8	13.6	12.3	13.0	18.5	16.3	17.3
6	4.9	4.7	4.7	8.5	7.5	8.0	13.9	13.6	13.8	19.5	17.8	18.6
7	5.6	4.9	5.2	7.6	7.1	7.4	14.0	13.7	13.8	19.2	18.5	18.8
8	6.3	5.6	5.9	8.1	7.4	7.7	14.7	14.0	14.3	18.8	18.5	18.7
9	7.4	6.3	6.8	8.4	7.8	8.1	15.8	14.7	15.2	18.7	18.2	18.3
10	7.6	6.7	7.1	8.0	7.6	7.7	16.7	15.8	16.2	18.3	17.8	18.0
11	7.0	6.3	6.5	7.9	7.6	7.8	17.4	16.7	17.0	18.2	17.6	17.9
12	6.7	6.3	6.5	8.3	7.9	8.1	17.8	17.4	17.6	18.4	17.6	18.2
13	7.0	6.7	6.9	9.0	8.3	8.6	17.9	17.5	17.8	17.6	15.7	16.3
14	7.4	7.0	7.2	9.1	8.7	8.9	17.5	16.1	16.5	16.2	15.2	15.7
15	10.8	7.4	9.3	9.5	9.1	9.3	16.7	16.5	16.6	17.6	16.2	16.8
16	11.0	10.8	10.9	9.8	9.5	9.7	16.5	14.4	15.2	19.2	17.5	18.1
17	10.9	8.9	9.9	9.8	8.9	9.3	14.4	11.3	12.6	20.0	18.9	19.3
18	8.9	7.6	8.3	8.9	8.3	8.5	11.3	9.6	10.2	20.8	19.9	20.2
19	7.6	7.3	7.5	8.4	8.0	8.2	10.2	9.0	9.6	20.8	20.1	20.4
20	7.3	6.8	7.0	8.7	8.4	8.6	11.6	10.2	11.0	20.7	19.8	20.2
21	7.3	6.8	7.0	8.7	8.3	8.4	12.7	11.6	12.2	20.6	20.2	20.5
22	7.0	6.2	6.5	8.7	8.5	8.6	13.9	12.7	13.3	20.5	19.3	19.7
23	6.2	6.0	6.1	8.8	8.5	8.7	15.0	13.9	14.5	19.8	18.6	19.1
24	7.2	6.1	6.5	9.0	8.8	8.9	15.3	14.0	14.6	18.6	17.7	17.9
25	9.7	7.2	8.2	8.9	8.0	8.3	14.0	12.3	12.8	---	---	e16.9
26	10.8	9.7	10.5	8.0	6.9	7.3	12.5	11.3	11.9	16.2	15.6	15.8
27	10.5	8.9	9.8	7.1	6.0	6.3	13.1	11.8	12.3	16.5	16.0	16.1
28	8.9	8.1	8.4	6.4	5.6	5.9	13.9	13.1	13.5	16.6	15.9	16.2
29	---	---	---	7.8	6.4	7.1	13.8	12.6	13.1	16.7	15.8	16.3
30	---	---	---	8.5	7.8	8.1	14.3	13.0	13.5	17.2	16.0	16.5
31	---	---	---	9.1	8.5	8.8	---	---	---	18.0	16.9	17.2
MONTH	11.0	4.1	7.0	9.8	5.6	8.2	17.9	8.5	13.4	20.8	14.3	17.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.2	16.3	17.5	21.5	20.6	21.1	24.2	23.1	23.7	24.4	21.5	22.6
2	17.3	15.3	16.1	21.6	20.4	21.0	24.6	23.9	24.2	23.4	19.8	21.8
3	17.3	16.4	16.7	22.8	20.6	21.6	24.7	24.4	24.5	24.1	21.7	22.5
4	18.2	16.6	17.1	22.7	22.0	22.3	25.9	23.8	24.3	24.6	21.7	23.1
5	18.1	17.1	17.5	23.0	22.2	22.6	25.7	24.9	25.2	25.5	20.9	23.4
6	19.0	18.1	18.5	22.6	21.3	21.8	24.9	24.6	24.7	26.8	21.0	23.7
7	20.3	19.0	19.6	21.3	20.3	20.6	24.9	24.6	24.8	26.3	22.8	24.4
8	19.8	19.1	19.3	22.8	21.0	21.8	24.6	23.4	23.8	26.6	23.1	24.6
9	19.8	17.3	18.2	23.3	22.8	23.0	23.4	22.9	23.1	25.4	22.5	24.0
10	18.3	18.1	18.1	24.1	22.8	23.4	23.2	22.8	22.9	23.4	18.6	20.6
11	18.2	18.1	18.1	24.1	22.7	23.4	23.1	22.7	22.9	22.6	16.0	19.1
12	18.6	18.1	18.4	22.7	20.2	20.9	23.1	22.3	22.8	22.7	16.1	19.4
13	19.6	18.6	19.1	20.7	19.3	19.9	23.1	22.3	22.6	23.5	17.6	20.3
14	20.9	19.6	20.2	20.4	18.2	19.3	22.6	21.6	22.1	20.4	17.2	19.2
15	22.0	20.9	21.4	21.5	17.1	19.5	22.4	20.7	21.6	19.6	15.1	17.2
16	21.6	20.9	21.1	23.7	17.6	20.9	22.9	21.0	22.0	19.5	13.6	16.5
17	21.2	20.5	20.8	25.5	20.7	23.1	22.8	20.8	21.5	20.4	15.0	17.6
18	21.2	20.6	20.8	24.7	21.1	22.8	22.2	20.5	21.3	21.0	17.5	19.1
19	21.2	20.6	20.9	26.6	22.7	24.5	23.2	19.4	21.4	19.9	18.8	19.5
20	21.7	21.2	21.4	25.5	23.1	24.2	22.6	16.9	19.9	19.9	17.0	18.5
21	21.9	21.6	21.7	26.1	21.9	23.9	22.9	15.4	19.5	21.3	16.0	18.4
22	21.7	19.7	20.6	24.8	23.9	24.2	26.0	18.2	21.8	19.4	18.1	18.8
23	19.7	18.7	19.2	24.6	23.7	24.2	27.4	22.8	24.7	19.8	17.2	18.6
24	19.7	18.9	19.3	25.0	23.1	24.1	25.0	23.4	24.1	19.0	14.8	17.4
25	20.0	18.7	19.3	25.7	23.2	24.5	26.8	22.6	24.5	15.0	11.2	13.2
26	20.2	19.2	19.7	24.6	23.4	24.1	27.1	22.5	24.3	15.1	7.8	11.8
27	20.7	19.3	19.9	23.7	22.9	23.4	24.6	22.0	23.1	17.3	9.3	13.2
28	20.8	19.7	20.2	24.7	23.3	23.8	25.6	21.8	23.4	16.5	10.5	13.8
29	21.2	20.0	20.6	24.7	24.2	24.4	26.4	21.7	23.4	17.1	10.6	13.9
30	21.3	20.8	21.0	24.3	23.3	23.9	25.4	21.2	23.2	17.8	10.6	13.9
31	---	---	---	24.3	23.7	24.0	23.2	21.9	22.7	---	---	---
MONTH	22.0	15.3	19.4	26.6	17.1	22.7	27.4	15.4	23.0	26.8	7.8	19.0
YEAR	27.4	1.7	13.6									

e Estimated

03310300 NOLIN RIVER AT WHITE MILLS, KY

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

DRAINAGE AREA.--357 mi^2, of which about 120 mi^2 does not contribute directly to surface runoff.

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

GAGE.--Water-stage recorder. Datum of gage is 583.08 ft above NGVD of 1929. Prior to Jan. 8, 1960, nonrecording gage at same site and datum.

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

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	2200	2870	11.10	Feb 17	0800	*3290	*12.29

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	48	83	e170	361	718	253	e120	197	108	118	48
2	60	47	83	e160	318	653	267	e115	294	147	103	46
3	57	47	81	e150	298	600	734	e110	285	117	92	46
4	54	47	78	e150	284	772	1240	e105	281	109	91	45
5	53	46	79	e145	272	1970	772	e100	369	e530	97	47
6	53	49	75	e140	246	1300	630	e110	327	e380	84	47
7	53	54	72	e140	227	970	e560	e140	522	172	75	45
8	52	69	72	e135	221	810	e520	e170	601	138	69	42
9	51	152	72	e130	262	707	e470	e200	400	120	65	43
10	50	179	71	e130	371	623	e430	e180	312	109	66	51
11	50	134	74	e125	389	564	e400	e160	269	98	81	73
12	50	103	76	e120	318	517	e370	e150	240	92	165	56
13	49	89	88	e120	280	523	e340	e140	216	87	99	47
14	49	79	150	e120	369	472	e320	e125	196	82	76	42
15	47	70	214	e115	2010	425	e300	e120	182	77	67	42
16	47	67	2220	e115	2380	490	e280	110	188	71	63	39
17	46	65	2110	e110	3020	510	e260	107	177	70	59	35
18	46	64	1000	e120	1850	435	e240	134	154	68	57	38
19	44	61	728	204	1390	398	e230	115	143	69	58	40
20	45	59	557	310	1160	382	e220	185	135	68	54	47
21	47	57	e460	285	951	392	e200	179	132	137	49	62
22	48	55	e380	260	825	399	e190	e740	188	126	48	51
23	47	56	e330	250	755	366	e180	e460	191	97	50	44
24	47	61	e290	255	658	342	e170	e350	159	84	49	42
25	49	112	e270	252	1260	319	e160	e300	135	82	48	40
26	51	140	e250	246	1380	296	e150	e260	122	e680	46	39
27	50	121	e230	243	947	283	e140	e230	117	e440	51	38
28	47	122	e210	233	816	268	e130	215	111	216	58	37
29	47	106	e200	219	---	262	e130	194	108	307	51	37
30	45	89	e190	301	---	259	e125	179	105	192	52	36
31	48	---	e180	417	---	257	---	168	---	142	50	---
TOTAL	1544	2448	10973	5870	23618	17282	10411	5971	6856	5215	2191	1345
MEAN	49.8	81.6	354	189	844	557	347	193	229	168	70.7	44.8
MAX	62	179	2220	417	3020	1970	1240	740	601	680	165	73
MIN	44	46	71	110	221	257	125	100	105	68	46	35
CFSM	.21	.34	1.49	.80	3.56	2.35	1.46	.81	.96	.71	.30	.19
IN.	.24	.38	1.72	.92	3.71	2.71	1.63	.94	1.08	.82	.34	.21

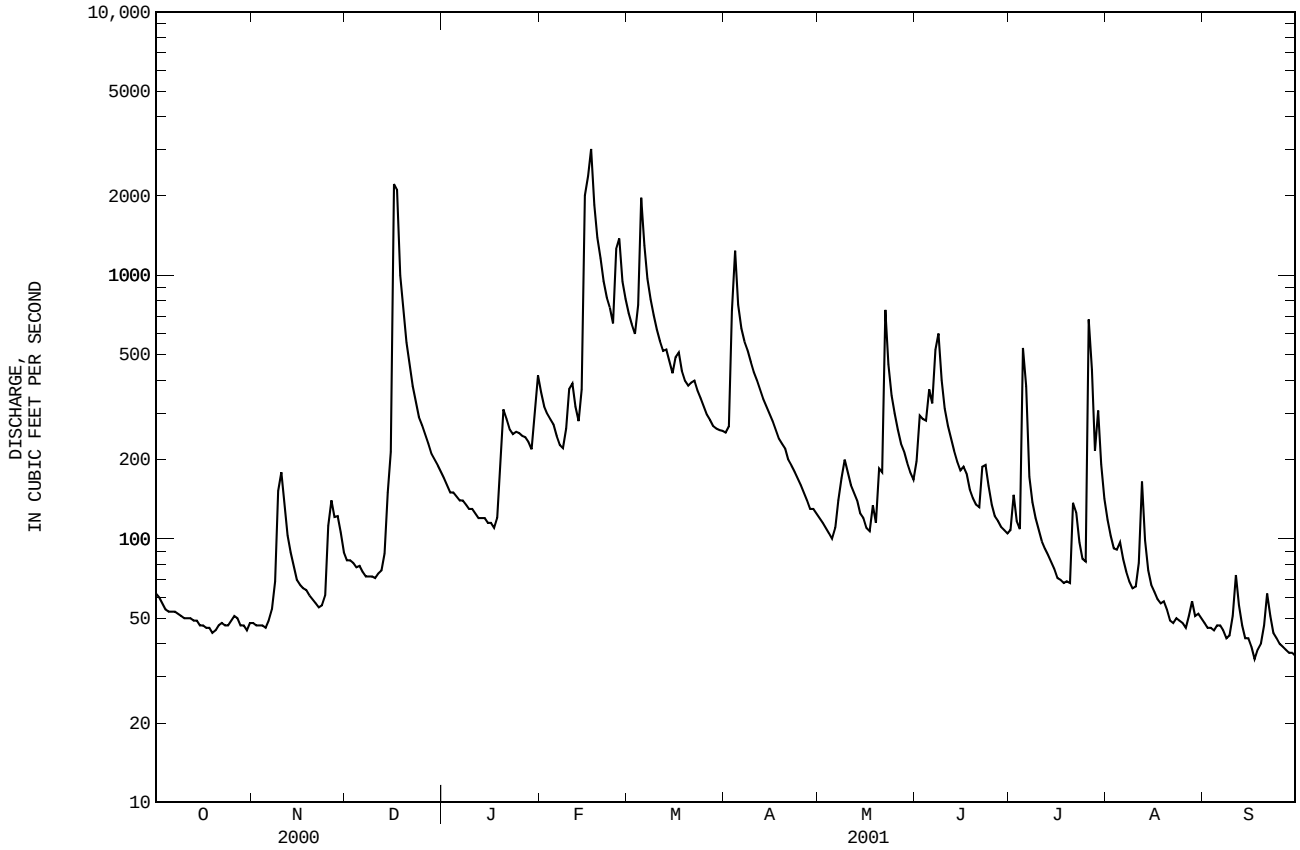
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2001, BY WATER YEAR (WY)

MEAN	148	274	604	666	874	981	748	570	344	240	171	189
MAX	692	1206	2356	1603	3807	3353	2447	2715	1630	972	966	2258
(WY)	1978	1989	1979	1974	1989	1997	1972	1983	1997	1967	1967	1979
MIN	37.0	44.3	44.7	55.5	156	228	200	131	71.9	83.2	48.6	35.6
(WY)	1970	2000	1964	1981	1964	1983	1986	1976	1988	1994	1999	1999

03310300 NOLIN RIVER AT WHITE MILLS, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1960 - 2001	
ANNUAL TOTAL	126571		93724			
ANNUAL MEAN	346		257		482	
HIGHEST ANNUAL MEAN					971	1979
LOWEST ANNUAL MEAN					217	1999
HIGHEST DAILY MEAN	4850	Feb 19	3020	Feb 17	20000	Mar 2 1997
LOWEST DAILY MEAN	44	Oct 19	35	Sep 17	27	Oct 23 1998
ANNUAL SEVEN-DAY MINIMUM	46	Oct 15	38	Sep 24	31	Oct 17 1998
MAXIMUM PEAK FLOW			3290	Feb 17	24500	Mar 2 1997
MAXIMUM PEAK STAGE			12.29	Feb 17	36.46	Mar 2 1997
INSTANTANEOUS LOW FLOW					31	Oct 1 1959
ANNUAL RUNOFF (CFSM)	1.46		1.08		2.03	
ANNUAL RUNOFF (INCHES)	19.87		14.71		27.64	
10 PERCENT EXCEEDS	908		562		1050	
50 PERCENT EXCEEDS	147		135		234	
90 PERCENT EXCEEDS	54		47		59	

e Estimated



03311000 NOLIN RIVER AT KYROCK, KY

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

DRAINAGE AREA.--703 mi^2, of which about 223 mi^2 does not contribute directly to surface runoff. Area at site used Oct. 1, 1960, to Sept. 30, 1973, 707 mi^2.

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

GAGE.--Water-stage recorder and outflow gate dials. Datum of gage is 400 ft above NGVD of 1929. See WDR KY-90-1 for history of changes prior to Sept. 30, 1973.

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

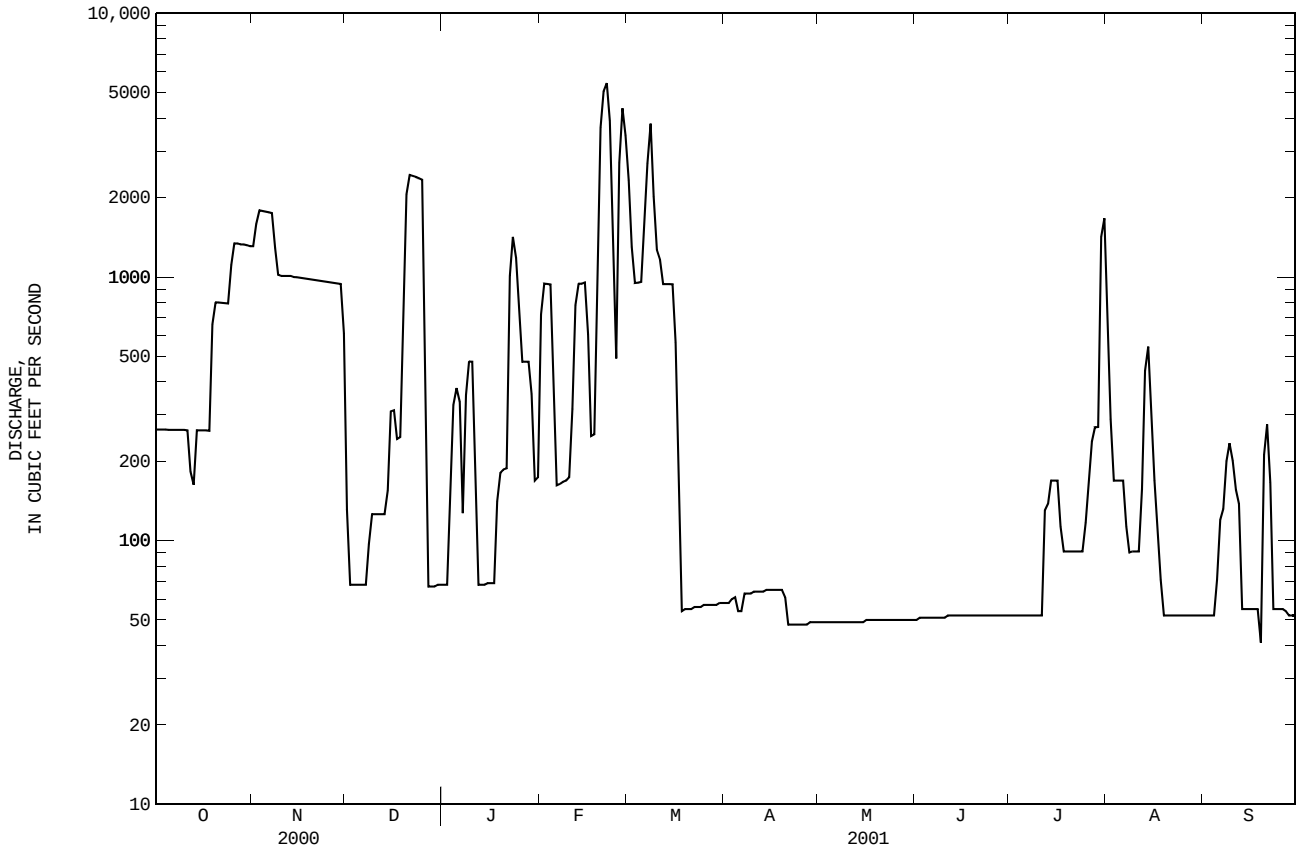
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	264	1310	131	68	722	2330	58	49	50	52	741	52
2	264	1590	68	68	944	1300	58	49	51	52	289	52
3	264	1790	68	137	941	950	60	49	51	52	169	52
4	264	1780	68	327	938	952	61	49	51	52	169	52
5	263	1770	68	379	427	959	54	49	51	52	169	71
6	263	1760	68	336	162	1540	54	49	51	52	169	120
7	263	1750	68	127	164	2700	63	49	51	52	113	132
8	263	1290	97	357	167	3820	63	49	51	52	90	200
9	263	1020	126	478	169	2020	63	49	51	52	91	234
10	263	1010	126	477	174	1270	64	49	51	52	91	201
11	262	1010	126	206	316	1170	64	49	52	52	91	156
12	183	1010	126	68	782	940	64	49	52	130	157	138
13	163	1010	126	68	944	940	64	49	52	138	441	55
14	262	1000	155	68	943	940	65	49	52	169	544	55
15	262	998	309	69	954	939	65	49	52	169	291	55
16	262	994	312	69	606	565	65	50	52	169	169	55
17	262	990	243	69	249	164	65	50	52	113	114	55
18	261	986	247	141	253	54	65	50	52	91	71	55
19	661	982	911	181	1410	55	65	50	52	91	52	41
20	802	978	2060	186	3690	55	61	50	52	91	52	212
21	800	974	2440	188	5060	55	48	50	52	91	52	276
22	798	969	2420	1010	5440	56	48	50	52	91	52	166
23	796	965	2400	1420	3910	56	48	50	52	91	52	55
24	794	961	2370	1180	1450	56	48	50	52	91	52	55
25	1110	958	2340	767	491	57	48	50	52	117	52	55
26	1340	954	811	477	2710	57	48	50	52	169	52	55
27	1340	950	67	477	4370	57	48	50	52	238	52	54
28	1330	946	67	477	3450	57	49	50	52	269	52	52
29	1330	942	67	360	---	57	49	50	52	270	52	52
30	1320	612	68	169	---	58	49	50	52	1420	52	52
31	1310	---	68	174	---	58	---	50	---	1670	52	---
TOTAL	18282	34259	18621	10578	41836	24287	1724	1535	1549	6250	4645	2915
MEAN	590	1142	601	341	1494	783	57.5	49.5	51.6	202	150	97.2
MAX	1340	1790	2440	1420	5440	3820	65	50	52	1670	741	276
MIN	163	612	67	68	162	54	48	49	50	52	52	41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

MEAN	902	1312	1205	1488	1613	1203	844	1027	824	497	289	490
MAX	4959	3393	4491	4852	4541	5533	4777	4161	4437	2009	1335	2266
(WY)	1980	1973	1978	1979	1985	1989	1975	1984	1983	1967	1967	1982
MIN	.000	452	1.50	122	91.4	203	.63	.39	.000	.000	.000	.000
(WY)	1976	1964	1985	1981	1992	1983	1966	1964	1964	1964	1964	1975

03311000 NOLIN RIVER AT KYROCK, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1964 - 2001	
ANNUAL TOTAL	198858		166481			
ANNUAL MEAN	543		456		971	
HIGHEST ANNUAL MEAN					1880	1989
LOWEST ANNUAL MEAN					456	2001
HIGHEST DAILY MEAN	3660	Feb 26	5440	Feb 22	10300	May 28 1983
LOWEST DAILY MEAN	49	Apr 4	41	Sep 19	.00	May 2 1964
ANNUAL SEVEN-DAY MINIMUM	50	Apr 4	48	Apr 21	.00	May 2 1964
MAXIMUM PEAK FLOW					22700	Jan 30 1932
MAXIMUM PEAK STAGE			28.87	Feb 20	59.27	Mar 2 1962
10 PERCENT EXCEEDS	1150		1300		2450	
50 PERCENT EXCEEDS	266		113		470	
90 PERCENT EXCEEDS	90		50		52	



03311500 GREEN RIVER AT LOCK 6 AT BROWNSVILLE, KY

LOCATION.--Lat 37°12'25", long 85°15'40", Edmonson County, Hydrologic Unit 05110001, on right bank 200 ft upstream from Lock and Dam 6, 0.8 mi downstream from Indian Creek, 1.0 mi northeast of Brownsville, 1.8 mi downstream from Nolin River, and at mile 181.7.

DRAINAGE AREA.--2,762 mi^2, of which about 600 mi^2 does not contribute directly to surface runoff.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1999 to current year.

INSTRUMENTATION.--Temperature recorder since December 1999.

REMARKS.-Specific conductance and temperature measurements made in conjuction with discharge measurements published in the miscellaneous water-quality section.

COOPERATION.--U.S. Army Corp of Engineers and Nature Conservancy.

EXTREMES FOR CURRENT PERIOD.--Maximum water-temperature, 23.3 C, Aug. 24, 2001; minimum water-temperature 2.0 C, Jan. 3, 4, 2001.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.7	16.6	16.7	12.5	12.4	12.4	---	---	---	2.3	2.2	2.2
2	16.6	16.5	16.6	12.4	12.2	12.3	---	---	---	2.2	2.1	2.2
3	16.5	16.4	16.5	12.3	12.1	12.2	---	---	---	2.2	2.0	2.1
4	16.4	16.3	16.4	12.1	12.0	12.1	---	---	---	2.1	2.0	2.0
5	16.3	16.2	16.3	12.0	11.9	11.9	5.3	5.2	5.2	2.4	2.1	2.2
6	---	---	---	11.9	11.8	11.8	5.2	4.1	4.9	2.4	2.3	2.3
7	---	---	---	12.1	11.7	11.9	5.7	3.9	4.3	2.4	2.3	2.4
8	---	---	---	11.9	11.5	11.7	5.6	3.9	4.5	2.8	2.4	2.5
9	---	---	---	12.4	11.6	11.9	4.0	3.8	3.8	2.6	2.4	2.5
10	---	---	---	12.1	11.2	11.5	3.9	3.8	3.8	2.4	2.3	2.4
11	---	---	---	11.2	11.0	11.2	4.2	3.8	3.9	2.3	2.3	2.3
12	---	---	---	11.0	10.8	10.9	4.0	3.7	3.9	2.3	2.3	2.3
13	---	---	---	10.9	10.6	10.7	3.7	3.5	3.6	2.4	2.3	2.3
14	---	---	---	10.6	10.3	10.5	3.5	3.5	3.5	2.5	2.4	2.4
15	---	---	---	10.3	10.0	10.1	3.8	3.5	3.6	2.6	2.5	2.5
16	---	---	---	10.0	9.9	9.9	4.2	3.8	3.9	2.7	2.6	2.7
17	14.2	14.1	14.1	9.9	9.5	9.7	4.1	3.8	4.0	2.7	2.6	2.6
18	14.1	14.0	14.1	9.5	9.1	9.3	3.8	3.5	3.6	2.7	2.6	2.6
19	14.0	13.9	13.9	9.1	8.9	9.0	3.5	3.4	3.5	2.9	2.7	2.7
20	13.9	13.7	13.8	8.9	8.7	8.8	3.4	3.2	3.3	2.9	2.8	2.8
21	13.8	13.7	13.7	8.8	8.3	8.6	3.2	3.1	3.2	2.9	2.6	2.8
22	13.7	13.6	13.6	8.3	7.9	8.1	3.1	2.9	3.0	2.9	2.6	2.7
23	13.6	13.5	13.5	7.9	7.8	7.9	2.9	2.8	2.8	2.6	2.5	2.5
24	13.5	13.3	13.4	7.9	7.6	7.8	2.8	2.8	2.8	2.6	2.5	2.5
25	13.4	13.2	13.3	9.0	7.6	8.3	2.8	2.7	2.7	4.4	2.5	2.6
26	13.2	13.1	13.1	9.6	8.8	9.1	2.7	2.7	2.7	5.1	2.4	3.1
27	13.1	12.9	13.0	8.9	6.8	7.2	2.7	2.7	2.7	6.4	2.4	4.4
28	12.9	12.8	12.9	6.8	6.5	6.7	2.7	2.7	2.7	8.7	2.4	3.4
29	12.8	12.7	12.7	6.5	6.2	6.4	2.7	2.6	2.6	2.4	2.4	2.4
30	12.7	12.6	12.6	6.5	6.1	6.3	2.6	2.4	2.5	3.0	2.4	2.6
31	12.6	12.4	12.5	---	---	---	2.4	2.3	2.3	2.9	2.6	2.7
MONTH	16.7	12.4	14.1	12.5	6.1	9.9	5.7	2.3	3.5	8.7	2.0	2.6

03311500 GREEN RIVER AT LOCK 6 AT BROWNSVILLE, KY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.9	2.8	2.9	4.5	4.4	4.4	8.1	8.0	8.0	13.6	13.4	13.5
2	2.9	2.7	2.8	4.6	4.5	4.6	8.4	8.1	8.2	13.8	13.5	13.6
3	2.7	2.5	2.6	4.7	4.6	4.7	9.3	8.4	8.9	14.0	13.6	13.8
4	2.5	2.5	2.5	4.9	4.7	4.8	9.4	9.2	9.3	14.1	13.9	14.0
5	2.5	2.5	2.5	4.9	4.8	4.9	9.5	9.2	9.4	14.2	14.0	14.1
6	2.6	2.5	2.5	4.9	4.8	4.8	12.7	9.4	9.9	14.4	14.1	14.2
7	2.7	2.6	2.6	4.9	4.7	4.8	13.5	9.2	9.9	14.7	14.3	14.4
8	2.9	2.7	2.8	4.9	4.8	4.8	9.5	9.2	9.4	14.9	14.5	14.7
9	3.1	2.9	3.0	4.9	4.9	4.9	9.7	9.5	9.6	15.0	14.8	14.9
10	3.1	3.1	3.1	5.0	4.8	4.9	10.0	9.6	9.8	14.9	14.8	14.8
11	3.2	3.1	3.1	5.1	4.9	5.0	10.2	10.0	10.1	14.9	14.7	14.8
12	3.3	3.1	3.2	5.3	5.1	5.1	10.4	10.2	10.3	14.8	14.7	14.8
13	3.4	3.2	3.3	5.3	5.1	5.3	10.6	10.3	10.5	14.9	14.8	14.8
14	3.6	3.4	3.4	5.4	5.3	5.3	10.7	10.6	10.6	15.0	14.9	14.9
15	3.8	3.6	3.7	5.6	5.4	5.5	10.9	10.7	10.8	14.9	14.9	14.9
16	3.9	3.8	3.8	5.8	5.6	5.7	11.1	10.9	11.0	15.0	14.9	14.9
17	5.8	3.9	5.4	5.9	5.7	5.8	11.2	11.0	11.1	15.0	14.9	14.9
18	5.8	4.8	5.4	6.1	5.9	6.0	11.2	11.1	11.2	15.0	14.9	15.0
19	5.8	5.5	5.7	6.2	6.0	6.1	11.4	11.2	11.3	15.0	15.0	15.0
20	6.4	5.2	5.9	6.4	6.2	6.3	11.5	11.4	11.5	15.0	14.9	15.0
21	7.0	3.9	5.1	6.5	6.4	6.4	11.8	11.5	11.7	15.1	15.0	15.1
22	5.4	3.9	4.1	6.7	6.5	6.6	12.0	11.8	11.9	15.2	15.0	15.1
23	4.0	3.8	3.9	6.8	6.7	6.7	12.2	12.0	12.0	15.2	15.1	15.1
24	4.0	3.9	4.0	7.0	6.8	6.9	12.4	12.1	12.3	15.1	15.1	15.1
25	4.2	4.0	4.1	7.0	6.9	7.0	12.5	12.3	12.4	15.2	15.1	15.1
26	4.4	4.2	4.3	7.1	7.0	7.0	12.7	12.5	12.6	15.2	15.1	15.1
27	4.4	4.4	4.4	7.1	7.0	7.1	12.8	12.7	12.8	15.1	15.1	15.1
28	4.5	4.4	4.5	7.3	7.0	7.1	13.0	12.8	12.9	15.2	15.1	15.1
29	---	---	---	7.4	7.3	7.4	13.2	13.0	13.1	15.2	15.1	15.1
30	---	---	---	7.7	7.4	7.6	13.4	13.1	13.3	15.4	15.2	15.3
31	---	---	---	8.0	7.7	7.8	---	---	---	15.4	15.3	15.4
MONTH	7.0	2.5	3.7	8.0	4.4	5.8	13.5	8.0	10.9	15.4	13.4	14.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.5	15.4	15.4	16.1	16.0	16.0	17.2	17.0	17.1	---	---	---
2	15.4	15.4	15.4	16.0	16.0	16.0	17.3	17.1	17.1	---	---	---
3	15.5	15.4	15.4	16.1	16.0	16.0	17.2	17.1	17.2	---	---	---
4	16.3	15.4	15.6	16.1	16.0	16.0	17.2	17.1	17.2	---	---	---
5	18.3	15.3	16.0	16.1	16.0	16.0	17.5	17.1	17.2	---	---	---
6	15.8	15.5	15.6	16.2	16.0	16.0	17.9	17.2	17.4	---	---	---
7	15.8	15.6	15.7	16.4	16.0	16.1	17.8	17.3	17.3	16.8	14.7	15.9
8	15.8	15.7	15.7	16.2	16.1	16.1	17.3	17.3	17.3	14.8	14.5	14.6
9	15.7	15.7	15.7	16.1	16.1	16.1	17.9	17.3	17.5	14.6	14.4	14.5
10	15.8	15.6	15.6	16.2	16.1	16.1	19.0	17.3	17.9	15.7	14.4	14.8
11	15.8	15.6	15.6	16.1	16.1	16.1	18.1	17.3	17.6	15.8	14.3	15.0
12	15.8	15.6	15.7	16.1	16.0	16.0	18.0	17.2	17.5	14.6	14.2	14.3
13	15.8	15.6	15.7	16.0	16.0	16.0	19.3	17.3	17.7	14.4	14.0	14.1
14	15.7	15.6	15.7	16.1	16.0	16.0	17.4	17.3	17.4	14.1	13.9	14.0
15	15.7	15.6	15.7	16.1	16.0	16.0	17.4	17.2	17.4	13.9	13.8	13.9
16	15.9	15.7	15.8	16.1	16.0	16.0	17.3	17.2	17.2	13.9	13.8	13.8
17	15.8	15.8	15.8	16.1	16.0	16.1	17.2	17.0	17.1	14.3	13.7	13.9
18	15.8	15.8	15.8	16.8	16.1	16.2	17.0	16.9	16.9	14.7	13.6	14.1
19	15.8	15.8	15.8	16.3	16.1	16.2	16.9	16.7	16.8	13.9	13.5	13.7
20	16.0	15.8	15.8	16.2	16.1	16.2	16.8	16.5	16.7	---	---	---
21	15.9	15.8	15.9	16.2	16.1	16.2	16.6	16.4	16.5	14.1	13.2	13.7
22	15.9	15.8	15.9	16.3	16.2	16.2	16.5	16.3	16.4	13.3	13.2	13.2
23	15.9	15.9	15.9	16.3	16.2	16.2	16.3	16.2	16.3	13.9	13.2	13.3
24	15.9	15.8	15.8	16.5	16.2	16.2	23.3	16.2	17.9	13.6	13.2	13.3
25	15.8	15.8	15.8	16.3	16.2	16.2	17.2	16.0	16.3	13.6	13.2	13.3
26	15.9	15.8	15.8	17.5	16.8	16.9	16.1	15.8	15.9	13.6	13.2	13.3
27	15.9	15.8	15.9	17.5	17.0	17.1	---	---	---	13.5	13.2	13.3
28	15.9	15.9	15.9	17.4	17.0	17.0	17.7	16.2	16.7	13.3	13.2	13.3
29	16.0	15.9	15.9	17.7	17.0	17.2	17.6	16.4	16.9	13.3	13.2	13.2
30	16.1	15.9	16.0	17.1	17.0	17.0	---	---	---	13.3	13.2	13.2
31	---	---	---	17.0	17.0	17.0	---	---	---	---	---	---
MONTH	18.3	15.3	15.7	17.7	16.0	16.3	23.3	15.8	17.1	16.8	13.2	13.9
YEAR	23.3	2.0	10.6									

03312765 BEAVER CREEK AT HWY 31 E NEAR GLASGOW, KY

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

DRAINAGE AREA.--49.6 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 651.43 ft above NGVD of 1929.

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

COOPERATION.--City of Glasgow.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	2400	*2,250	*11.15	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e9.7	e8.0	e23	e23	59	106	55	17	27	21	11	5.6
2	e9.2	e8.1	e24	e22	51	96	58	17	32	15	9.9	4.8
3	e8.6	e8.2	e24	e21	46	85	140	16	26	13	9.8	4.7
4	e8.0	e8.2	e25	e20	44	159	160	16	219	12	84	5.0
5	e7.8	e8.4	e27	e19	42	226	107	15	198	19	37	4.6
6	e7.7	e9.2	e26	e18	39	149	87	15	94	50	23	4.2
7	e7.8	e12	e26	e18	37	118	73	16	70	23	17	3.9
8	e9.0	34	e25	e17	34	104	61	30	53	16	14	3.8
9	e12	90	e25	e17	34	88	53	29	43	14	12	3.7
10	e9.8	70	e24	e16	71	73	48	22	36	13	11	6.0
11	e7.8	29	e27	e16	66	65	43	19	32	12	20	5.9
12	e7.6	22	e30	e16	56	59	39	27	28	11	16	4.2
13	e7.4	19	48	e15	50	61	37	22	25	10	11	3.9
14	e7.8	e14	123	e15	80	57	35	19	23	9.6	9.5	3.8
15	e7.4	e14	67	e15	464	53	34	17	22	9.3	8.8	3.6
16	e7.2	e14	646	e14	526	58	33	16	29	8.9	8.2	3.6
17	e7.8	e13	1160	e14	661	52	29	15	22	8.6	7.9	3.6
18	e7.2	e14	353	e14	326	48	27	14	19	8.8	7.5	3.5
19	e6.8	e13	187	118	199	46	26	14	17	9.3	7.0	4.5
20	e7.0	e11	107	208	142	52	25	19	16	8.6	6.9	12
21	e7.4	e11	84	121	117	96	24	106	15	12	6.5	6.6
22	e7.6	e10	65	93	138	82	23	303	16	9.9	6.3	4.4
23	e7.6	e10	54	83	137	71	22	144	15	8.4	6.1	3.8
24	e7.4	e18	46	80	118	64	23	78	14	7.9	15	4.3
25	e8.0	41	40	71	267	57	21	54	13	8.0	11	5.6
26	e8.6	51	36	63	241	51	20	43	13	11	6.6	4.4
27	e7.8	40	e33	59	153	48	19	36	15	13	6.4	3.9
28	e7.4	e34	e30	50	123	45	19	31	13	15	5.8	3.5
29	e7.5	e29	e28	47	---	44	18	27	13	25	5.3	3.5
30	e7.2	e26	e26	72	---	43	17	24	13	23	4.9	3.4
31	e8.0	---	e25	75	---	42	---	22	---	15	5.0	---
TOTAL	248.1	689.1	3464	1450	4321	2398	1376	1243	1171	440.3	410.4	138.3
MEAN	8.00	23.0	112	46.8	154	77.4	45.9	40.1	39.0	14.2	13.2	4.61
MAX	12	90	1160	208	661	226	160	303	219	50	84	12
MIN	6.8	8.0	23	14	34	42	17	14	13	7.9	4.9	3.4
CFSM	.16	.46	2.25	.94	3.11	1.56	.92	.81	.79	.29	.27	.09
IN.	.19	.52	2.60	1.09	3.24	1.80	1.03	.93	.88	.33	.31	.10

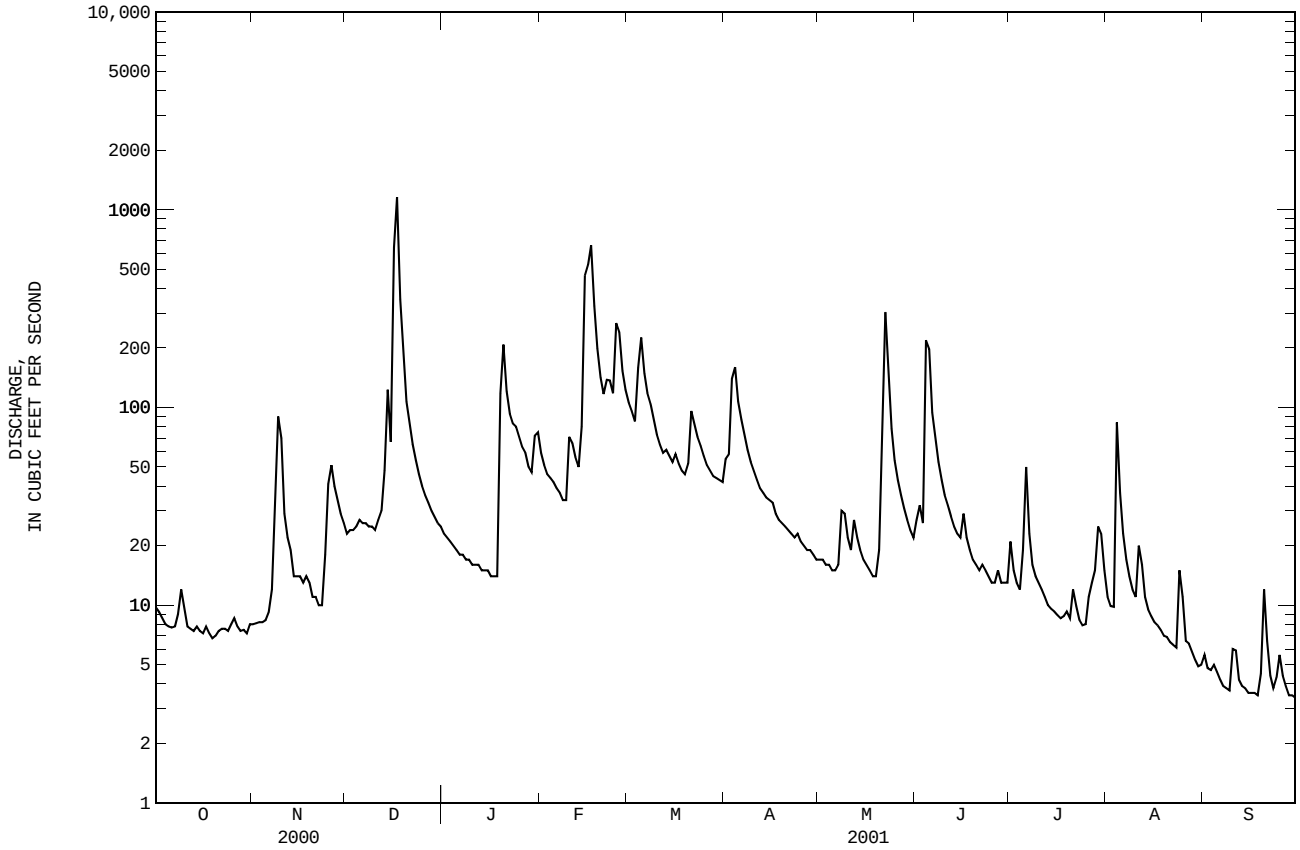
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2001, BY WATER YEAR (WY)

MEAN	14.3	40.6	92.5	136	166	223	116	87.2	96.1	27.5	15.4	16.8
MAX	39.6	169	246	307	489	477	307	381	250	79.5	39.2	67.7
(WY)	1997	1997	1997	1999	1994	1997	1994	1995	1997	1998	1994	1996
MIN	5.32	7.73	8.43	10.2	47.7	73.7	44.8	38.8	19.9	7.41	4.30	3.71
(WY)	2000	2000	2000	2000	2000	2000	1999	1994	1993	1993	1999	1993

03312765 BEAVER CREEK AT HWY 31 E NEAR GLASGOW, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1992 - 2001	
ANNUAL TOTAL	13896.3		17349.2			
ANNUAL MEAN	38.0		47.5		85.5	
HIGHEST ANNUAL MEAN					142	1994
LOWEST ANNUAL MEAN					27.7	2000
HIGHEST DAILY MEAN	1160	Dec 17	1160	Dec 17	2930	Mar 9 1994
LOWEST DAILY MEAN	4.0	Aug 17	3.4	Sep 30	1.5	Oct 7 1999
ANNUAL SEVEN-DAY MINIMUM	4.5	Jan 10	3.7	Sep 12	1.8	Oct 1 1999
MAXIMUM PEAK FLOW			2250	Dec 16	6620	Jun 18 1992
MAXIMUM PEAK STAGE			11.15	Dec 16	15.10	Jun 18 1992
ANNUAL RUNOFF (CFSM)	.77		.96		1.72	
ANNUAL RUNOFF (INCHES)	10.42		13.01		23.43	
10 PERCENT EXCEEDS	70		105		188	
50 PERCENT EXCEEDS	14		21		29	
90 PERCENT EXCEEDS	6.6		6.6		6.0	

e Estimated



03313700 WEST FORK DRAKES CREEK NEAR FRANKLIN, KY

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

DRAINAGE AREA.--110 mi^2, of which about 19 mi^2 does not contribute directly to surface runoff.

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

GAGE.--Water-stage recorder and broad-crested weir. Datum of gage is 581.54 ft above NGVD of 1929. Prior to Oct. 1, 1981, at site 0.8 mi upstream at datum 8.05 ft lower.

REMARKS.--Records good except for those estimated, which are fair. Subsequent to Apr. 24, 1976, records of daily discharge less than about 300 ft^3/s does not include approximately 3 ft^3/s which is diverted by city of Franklin for municipal supply.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)

No peaks greater than base discharge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.2	e2.8	22	e23	153	209	98	33	51	62	23	18
2	e1.1	e3.0	20	e21	123	182	90	33	105	48	18	12
3	e1.2	e3.2	19	e19	102	159	96	34	80	35	35	8.4
4	e1.3	e3.4	16	e18	92	191	105	30	73	33	237	7.8
5	e1.5	e3.6	14	e18	84	334	94	28	66	36	120	7.5
6	e3.0	e4.4	12	e17	75	263	89	25	63	32	74	5.9
7	e4.0	e5.0	11	e17	67	214	85	26	61	28	51	6.9
8	e3.4	e9.0	10	e16	61	185	79	71	65	23	40	6.5
9	e3.0	e110	9.2	e16	60	162	76	86	60	20	46	10
10	e2.6	124	9.0	17	115	140	72	113	51	20	45	14
11	e2.3	67	9.6	18	124	125	67	76	43	14	36	13
12	e2.0	46	9.2	19	106	115	62	122	37	11	34	11
13	e1.9	37	12	20	96	113	70	104	33	9.0	28	7.6
14	e1.8	31	51	21	195	101	79	78	28	7.1	22	e6.0
15	e1.8	25	73	21	1450	99	83	63	29	5.6	18	e5.6
16	e1.7	23	737	21	1500	125	111	58	55	5.2	15	e5.2
17	e1.6	20	850	20	1470	123	95	49	56	3.7	13	e5.0
18	e1.5	17	307	23	758	107	82	44	39	6.0	11	e4.8
19	e1.5	20	187	223	466	99	73	44	28	14	15	e5.0
20	e1.6	17	126	386	341	108	69	42	18	19	11	e5.8
21	e1.8	12	94	236	262	258	63	51	14	13	8.4	6.2
22	e2.0	8.0	74	175	321	250	57	92	17	9.5	6.9	5.6
23	e2.4	6.0	59	145	323	209	54	114	18	7.5	6.7	e5.2
24	e2.6	6.1	49	129	261	178	58	87	15	6.4	6.3	e4.8
25	e2.8	26	42	112	606	152	51	71	12	15	4.7	e5.4
26	e2.9	63	e36	98	464	133	46	59	9.4	43	3.6	e5.0
27	e3.0	55	e32	90	332	119	43	51	7.8	33	6.1	e4.8
28	e3.0	41	e30	75	255	108	40	46	7.2	46	4.9	e4.6
29	e3.1	33	e28	73	---	104	37	42	8.0	68	4.0	e4.4
30	e3.2	27	e26	204	---	102	35	38	66	50	15	e4.2
31	e3.0	---	e24	204	---	98	---	38	---	33	27	---
TOTAL	69.8	848.5	2998.0	2495	10262	4865	2159	1848	1215.4	756.0	985.6	216.2
MEAN	2.25	28.3	96.7	80.5	366	157	72.0	59.6	40.5	24.4	31.8	7.21
MAX	4.0	124	850	386	1500	334	111	122	105	68	237	18
MIN	1.1	2.8	9.0	16	60	98	35	25	7.2	3.7	3.6	4.2
CFSM	.02	.31	1.06	.88	4.03	1.72	.79	.66	.45	.27	.35	.08
IN.	.03	.35	1.23	1.02	4.20	1.99	.88	.76	.50	.31	.40	.09

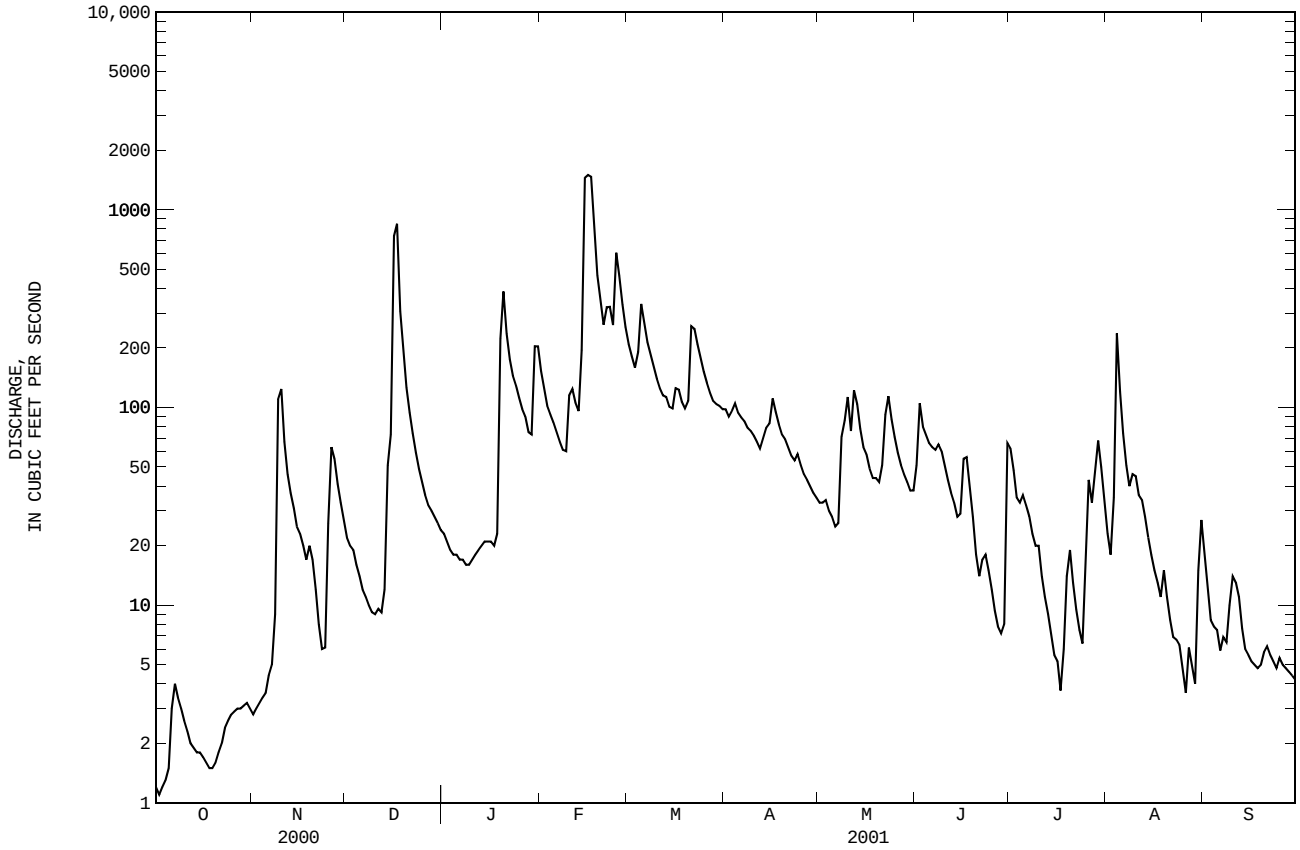
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2001, BY WATER YEAR (WY)

MEAN	41.6	126	281	294	359	379	249	211	157	64.4	33.4	56.9
MAX	219	474	971	867	1356	1412	568	982	795	251	142	677
(WY)	1976	1980	1979	1974	1989	1975	1979	1983	1998	1989	1971	1979
MIN	1.87	6.95	11.8	10.4	138	113	38.3	22.8	18.8	5.47	2.80	2.01
(WY)	1988	2000	1981	1981	1980	1998	1986	1988	1985	1985	1986	2000

03313700 WEST FORK DRAKES CREEK NEAR FRANKLIN, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1968 - 2001	
ANNUAL TOTAL	26084.46		28718.5			
ANNUAL MEAN	71.3		78.7		187	
HIGHEST ANNUAL MEAN					351	1989
LOWEST ANNUAL MEAN					63.5	2000
HIGHEST DAILY MEAN	1580	Feb 14	1500	Feb 16	12800	Mar 12 1975
LOWEST DAILY MEAN	.96	Sep 21	1.1	Oct 2	.00	Sep 19 1985
ANNUAL SEVEN-DAY MINIMUM	1.2	Sep 17	1.6	Oct 14	.00	Aug 13 1988
MAXIMUM PEAK FLOW			2460	Feb 17	27300	Mar 12 1975
MAXIMUM PEAK STAGE			9.37	Feb 17	23.20	Mar 12 1975
ANNUAL RUNOFF (CFSM)	.78		.86		2.05	
ANNUAL RUNOFF (INCHES)	10.66		11.74		27.90	
10 PERCENT EXCEEDS	168		176		418	
50 PERCENT EXCEEDS	22		33		68	
90 PERCENT EXCEEDS	1.8		3.7		8.0	

e Estimated



03316500 GREEN RIVER AT PARADISE, KY

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

DRAINAGE AREA.--6,183 mi^2, of which about 1,380 mi^2 does not contribute directly to surface runoff.

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

GAGE.--Water-stage recorder. Datum of gage is 363.19 ft above NGVD of 1929 (levels by Tennessee Valley Authority). See WDR KY-81-1 for history of changes prior to October 31, 1979. Auxiliary water-stage recorder on U.S. Highway 62 bridge at Rockport, 4.4 mi downstream.

REMARKS.--Records fair except for those estimated, which are poor. Flow regulated by Green River Lake beginning February 1969, Nolin River Lake beginning March 1963, and Barren River Lake beginning March 1964.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1370	3330	3720	4760	6470	19900	2750	1360	1520	1170	3740	1120
2	1210	3330	3300	4490	6610	18100	2760	1310	2220	1500	2620	976
3	1090	3440	3000	3760	6480	15800	8310	1270	1940	1350	1840	863
4	1040	3880	2830	2900	6130	14700	14500	1230	2240	1200	1440	778
5	1060	4190	2790	2380	5890	17500	15200	1140	5770	1070	1250	717
6	1360	4260	2700	2110	5430	19000	13600	1030	10100	989	1180	651
7	1330	4310	2520	1810	4480	18500	10100	1020	10400	1150	1310	586
8	1280	4390	2230	1690	3510	17200	7340	1970	7190	1250	1480	668
9	1220	4420	1730	1630	3000	16300	5460	2690	5340	1230	1760	912
10	1150	4430	1360	1660	3610	14200	4420	2780	4530	1070	2400	2340
11	1140	4650	1150	1720	4180	11900	3730	2390	3930	932	2350	2260
12	1130	4940	1100	1700	4690	10700	3300	2050	3000	833	2140	1510
13	1130	4830	988	1510	5080	10000	3010	1760	2290	736	1990	946
14	1090	4500	1160	1390	6260	9580	2740	1520	1780	696	1760	701
15	1090	4150	1350	1500	13800	8910	2680	1360	1510	649	1580	576
16	1110	3960	5290	1580	23300	8580	2700	1250	1580	587	1360	501
17	1190	4290	e12900	1630	31900	8660	2730	1170	1440	538	1100	420
18	1380	4550	e19500	1670	33900	7750	2590	1110	1330	674	887	369
19	1480	4610	20800	2060	31600	6530	2380	1040	1270	1360	807	419
20	1650	4660	15400	3100	25200	5490	2190	1020	1280	1370	703	492
21	2060	4580	12300	5780	21700	4670	2070	1270	1210	1090	595	553
22	2270	4490	11100	8450	22000	4440	1960	1970	1160	886	525	656
23	2320	4420	10500	8600	22900	5100	1870	2850	1090	816	503	739
24	2330	4760	10200	8550	21800	5390	1980	3990	989	835	794	1140
25	2320	5690	9820	8700	21900	4770	1920	3960	900	837	1420	948
26	2380	5650	9540	8740	22600	4090	1820	3500	829	2120	1390	727
27	2780	5150	8500	8160	22000	3510	1700	3170	771	3500	2260	615
28	3190	4750	6940	7200	21500	3080	1590	2450	790	4110	3340	569
29	3350	4380	5880	6080	---	2810	1520	1870	853	4440	2610	502
30	3370	4090	5300	5900	---	2690	1430	1500	930	4390	1910	452
31	3370	---	5010	6270	---	2630	---	1300	---	4130	1360	---
TOTAL	54240	133080	200908	127480	407920	302480	130350	58300	80182	47508	50404	24706
MEAN	1750	4436	6481	4112	14570	9757	4345	1881	2673	1533	1626	824
MAX	3370	5690	20800	8740	33900	19900	15200	3990	10400	4440	3740	2340
MIN	1040	3330	988	1390	3000	2630	1430	1020	771	538	503	369

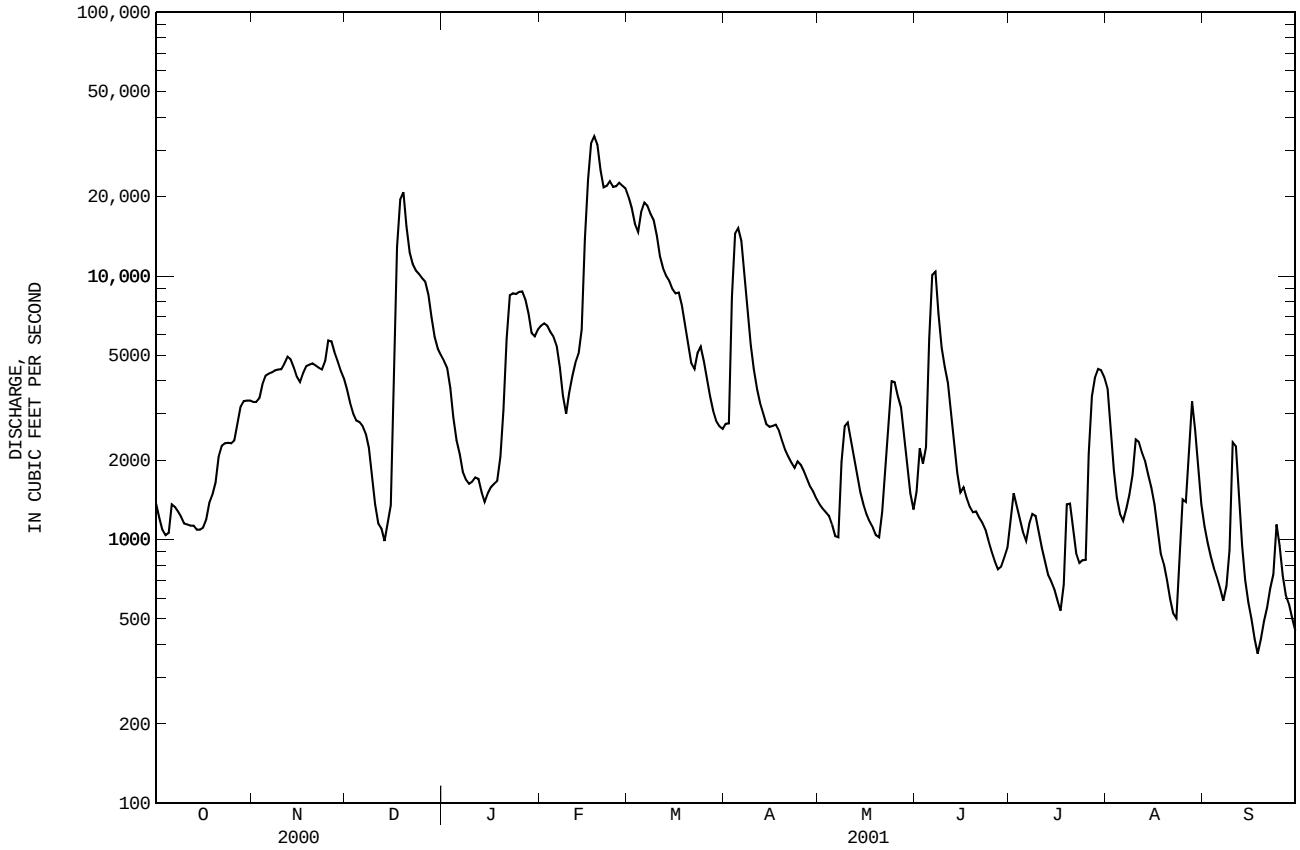
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2001, BY WATER YEAR (WY)

MEAN	4793	7815	12770	15780	15910	17340	13140	9865	7690	3871	2676	3470
MAX	16950	19310	42250	36020	26410	41520	34210	25950	20190	8811	8743	22540
(WY)	1980	1980	1979	1974	1994	1997	1979	1995	1981	1973	1971	1979
MIN	1750	2548	2103	954	6083	6150	4345	1881	1523	1270	524	512
(WY)	2001	2000	1981	1981	1977	1981	2001	2001	1999	2000	1999	1999

03316500 GREEN RIVER AT PARADISE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1970 - 2001	
ANNUAL TOTAL	1771692		1617558			
ANNUAL MEAN	4841		4432		9607	
HIGHEST ANNUAL MEAN					18460	1979
LOWEST ANNUAL MEAN					4432	2001
HIGHEST DAILY MEAN	27700	Feb 20	33900	Feb 18	83800	Mar 7 1997
LOWEST DAILY MEAN	533	Jul 28	369	Sep 18	277	Sep 13 1995
ANNUAL SEVEN-DAY MINIMUM	682	Jul 22	476	Sep 15	320	Sep 8 1995
MAXIMUM PEAK FLOW			34200	Feb 18	107000	Mar 5 1962
MAXIMUM PEAK STAGE			19.62	Feb 18	40.46	Mar 5 1962
INSTANTANEOUS LOW FLOW					250	Oct 23 1940
10 PERCENT EXCEEDS	11800		10400		22300	
50 PERCENT EXCEEDS	3370		2340		5700	
90 PERCENT EXCEEDS	1090		831		1300	

e Estimated



03320000 GREEN RIVER AT LOCK 2, AT CALHOUN, KY

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

DRAINAGE AREA.--7,566 mi^2, of which about 1,540 mi^2 does not contribute directly to surface runoff.

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

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

GAGE.--Water-stage recorder. Datum of gage is 353.95 ft above NGVD of 1929. Auxiliary water-stage recorder at Livermore, 8.0 mi upstream at datum 360.11 ft above NGVD of 1929. See WDR KY-88-1 for history of changes prior to Sept. 30, 1958.

REMARKS.--Records good except for discharges below 2000 ft^3/s, which are fair. Flow regulated by Green River Lake beginning February 1969, Nolin Lake beginning March 1963, Barren River Lake beginning March 1964, and Rough River Lake, October 1959.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

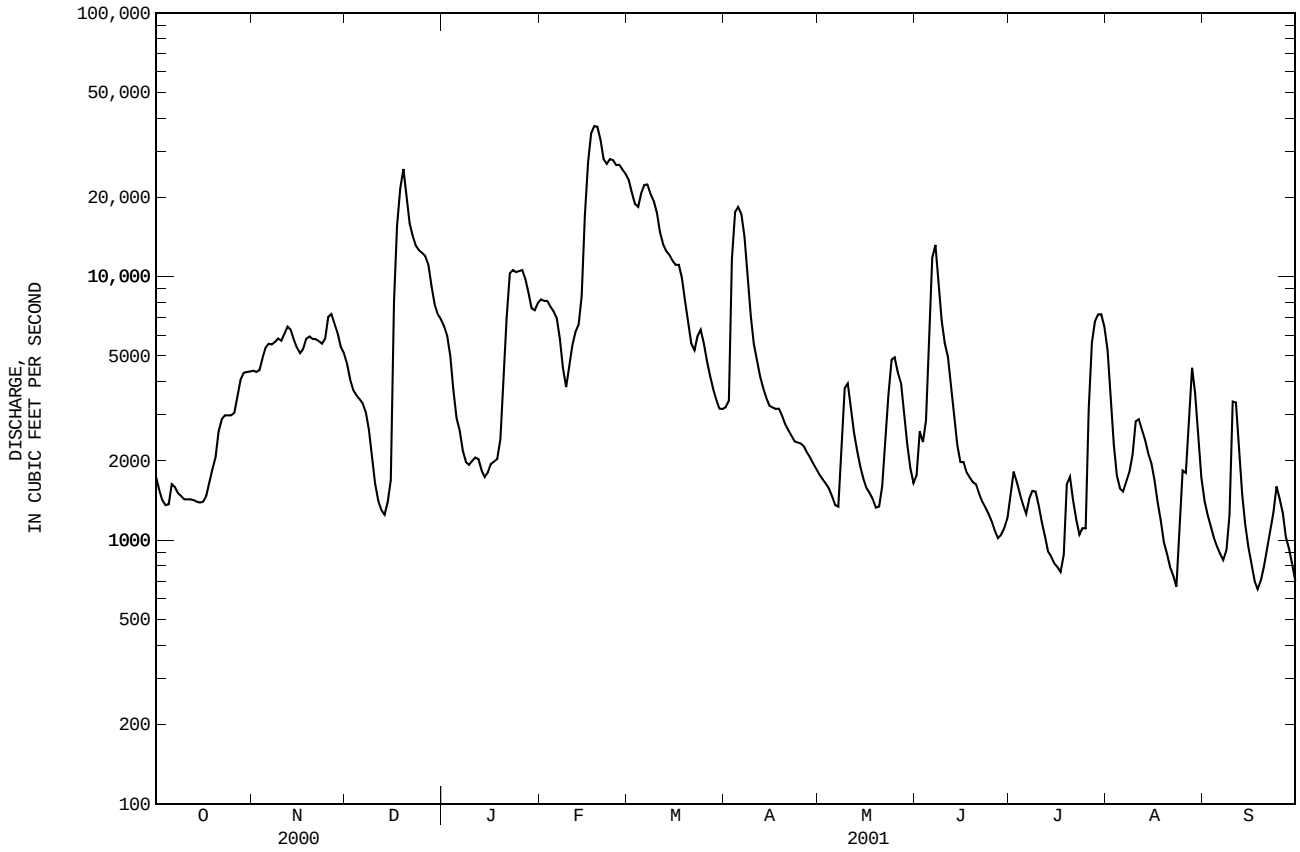
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1740	4400	4690	6500	8190	23300	3200	1770	1760	1460	5250	1410
2	1550	4350	4080	5990	8090	20900	3380	1700	2590	1820	3420	1250
3	1420	4420	3710	4990	8090	18900	11700	1640	2360	1670	2300	1130
4	1360	4900	3550	3720	7690	18400	17600	1570	2850	1500	1760	1020
5	1370	5380	3430	2910	7400	20700	18400	1470	6830	1370	1570	948
6	1630	5560	3310	2600	6980	22300	17300	1360	11800	1260	1530	888
7	1590	5530	3060	2190	5790	22400	14100	1340	13200	1440	1670	841
8	1510	5660	2630	1980	4500	20600	9820	2430	9270	1540	1810	917
9	1470	5830	2090	1930	3810	19400	7100	3780	6810	1530	2110	1250
10	1430	5710	1640	2000	4570	17500	5550	3940	5610	1360	2830	3360
11	1430	6060	1410	2060	5500	14800	4800	3190	4970	1170	2880	3330
12	1430	6460	1300	2030	6160	13300	4190	2560	3870	1040	2630	2200
13	1420	6300	1250	1840	6580	12500	3780	2180	2940	907	2410	1500
14	1400	5780	1400	1740	8450	12100	3480	1910	2290	869	2140	1150
15	1390	5390	1690	1810	17100	11500	3240	1710	1980	817	1970	942
16	1400	5120	8010	1950	27200	11100	3190	1580	1980	791	1690	812
17	1470	5330	15600	1990	34900	11100	3150	1510	1810	758	1390	701
18	1660	5820	21600	2030	37300	9930	3160	1430	1730	880	1190	652
19	1860	5930	25600	2420	37100	8090	2980	1330	1660	1630	981	704
20	2070	5810	20400	3720	33000	6760	2760	1340	1630	1740	890	799
21	2590	5790	15900	6990	27900	5580	2620	1600	1500	1420	790	933
22	2880	5700	14300	10300	26800	5270	2490	2400	1400	1200	736	1100
23	2980	5570	13100	10600	27900	5940	2370	3550	1330	1050	667	1270
24	2980	5830	12600	10400	27700	6280	2350	4840	1260	1110	1090	1600
25	2980	7040	12300	10500	26500	5600	2330	4940	1180	1110	1840	1440
26	3040	7220	12000	10600	26600	4790	2270	4330	1090	3150	1800	1270
27	3550	6660	11100	9810	25500	4220	2150	3950	1020	5630	2750	1030
28	4060	6100	9160	8670	24600	3750	2060	3090	1050	6770	4510	928
29	4320	5430	7870	7590	---	3410	1950	2310	1110	7200	3610	809
30	4350	5130	7200	7460	---	3160	1860	1880	1210	7210	2490	703
31	4370	---	6900	7950	---	3150	---	1650	---	6450	1730	---
TOTAL	68700	170210	252880	157270	491900	366730	165330	74280	100090	67852	64434	36887
MEAN	2216	5674	8157	5073	17570	11830	5511	2396	3336	2189	2079	1230
MAX	4370	7220	25600	10600	37300	23300	18400	4940	13200	7210	5250	3360
MIN	1360	4350	1250	1740	3810	3150	1860	1330	1020	758	667	652

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2001, BY WATER YEAR (WY)

MEAN	5290	10090	16000	18590	22020	20020	15250	12870	8727	4598	2829	4000
MAX	19100	22770	46530	41100	52100	53330	42430	50460	23850	12260	8763	27360
(WY)	1980	1980	1979	1974	1989	1997	1979	1983	1981	1989	1971	1979
MIN	1875	2737	2496	1223	7116	7479	2260	1706	541	1235	362	354
(WY)	2000	2000	1981	1981	1977	1981	1986	1988	1988	2000	1999	1999

03320000 GREEN RIVER AT LOCK 2, AT CALHOUN, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1970 - 2001	
ANNUAL TOTAL	2165655		2016563			
ANNUAL MEAN	5917		5525		11640	
HIGHEST ANNUAL MEAN					22070	1979
LOWEST ANNUAL MEAN					5345	2000
HIGHEST DAILY MEAN	30700	Feb 20	37300	Feb 18	85200	Mar 7 1997
LOWEST DAILY MEAN	557	Jul 28	652	Sep 18	162	Sep 6 1999
ANNUAL SEVEN-DAY MINIMUM	624	Jul 22	792	Sep 15	186	Sep 5 1999
MAXIMUM PEAK FLOW			38000	Feb 19	208000	Jan 27 1937
MAXIMUM PEAK STAGE			19.43	Feb 19	42.40	Jan 30 1937
INSTANTANEOUS LOW FLOW					107	Sep 14 1999
10 PERCENT EXCEEDS	14400		13200		29500	
50 PERCENT EXCEEDS	4200		2980		6980	
90 PERCENT EXCEEDS	1250		1110		1390	



03320500 POND RIVER NEAR APEX, KY

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

DRAINAGE AREA.--194 mi^2.

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

REVISED RECORDS.--WSP 1083: 1942-46. WSP 1555: 1945-46(P), drainage area, WRD KY-93: 1989-91(P), WRD KY-97: 1989-96(P).

GAGE.--Water-stage recorder. Datum of gage is 384.53 ft above NGVD of 1929. Prior to Aug. 21, 1942, nonrecording gage at same site. Prior to Oct. 1, 1974, at datum 6.11 ft higher.

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

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)

No peaks greater than base discharge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	e1.4	10	e21	181	e293	60	26	26	11	e2.4	e2.8
2	2.3	e1.1	8.4	e20	118	180	62	25	26	10	e2.2	e2.7
3	1.9	e1.0	7.8	e19	86	132	448	24	25	10	e2.0	e2.6
4	1.5	e1.0	7.4	18	70	264	588	26	26	9.7	e1.7	e2.4
5	1.3	e1.1	7.0	18	63	e611	337	28	26	8.7	e1.6	e2.3
6	e1.9	1.0	6.6	18	57	e422	193	24	e26	7.7	e1.3	e2.4
7	e2.4	1.3	6.2	19	52	e246	141	93	e54	7.1	e1.2	e2.1
8	e2.0	2.3	5.8	20	46	e167	119	986	48	7.6	e1.1	e1.9
9	1.4	7.7	5.6	19	43	130	103	310	31	8.8	e1.0	e3.6
10	1.7	16	5.6	18	93	105	95	133	17	8.0	e2.0	8.4
11	1.7	23	5.7	17	119	90	86	97	12	7.0	e3.8	26
12	1.6	21	6.0	17	101	83	76	74	11	6.4	e3.0	17
13	1.4	14	6.4	17	83	111	67	61	9.8	5.9	e2.7	9.2
14	1.3	9.2	11	19	243	143	61	49	9.1	5.3	e2.2	6.6
15	1.2	7.0	23	21	1500	136	61	41	8.5	4.5	e1.9	5.3
16	1.1	6.0	e1070	22	e2100	147	63	36	8.3	3.9	e1.6	4.2
17	1.1	5.4	e1940	21	e2150	171	61	32	9.4	e3.6	e1.4	3.3
18	.92	4.9	e1200	20	e1500	150	54	29	14	e3.9	e1.4	2.8
19	e.88	5.1	e634	54	e960	122	49	27	12	4.0	e1.6	3.3
20	e.82	6.0	e297	e131	e650	104	45	27	9.6	4.1	e2.0	3.5
21	e.78	6.9	135	e123	e440	100	43	33	8.1	e3.5	e1.9	4.8
22	e.74	7.5	82	93	e404	97	41	97	7.3	e3.1	e1.7	4.8
23	e.72	7.7	65	77	e648	88	38	103	6.5	e3.0	e1.5	4.0
24	e.68	8.6	48	68	e474	79	40	86	6.1	e2.9	e1.3	4.1
25	e.64	19	e42	60	e1020	70	41	70	5.6	e4.5	e1.3	3.6
26	e.62	56	e36	52	e1000	61	43	56	5.5	e3.6	e1.5	3.4
27	e.60	56	e32	46	e640	54	50	46	6.1	e3.0	e2.2	3.1
28	e.70	35	e28	40	e450	49	44	38	11	e3.1	e4.0	e2.5
29	e1.0	22	e26	40	---	47	36	33	11	e2.9	5.0	e2.4
30	e2.0	15	e24	237	---	47	30	29	12	e2.7	e3.5	e2.3
31	e1.6	---	e23	303	---	53	---	26	---	e2.5	e3.1	---
TOTAL	41.50	369.2	5804.5	1668	15291	4552	3175	2765	487.9	172.0	65.1	147.4
MEAN	1.34	12.3	187	53.8	546	147	106	89.2	16.3	5.55	2.10	4.91
MAX	3.0	56	1940	303	2150	611	588	986	54	11	5.0	26
MIN	.60	1.0	5.6	17	43	47	30	24	5.5	2.5	1.0	1.9
CFSM	.01	.06	.97	.28	2.81	.76	.55	.46	.08	.03	.01	.03
IN.	.01	.07	1.11	.32	2.93	.87	.61	.53	.09	.03	.01	.03

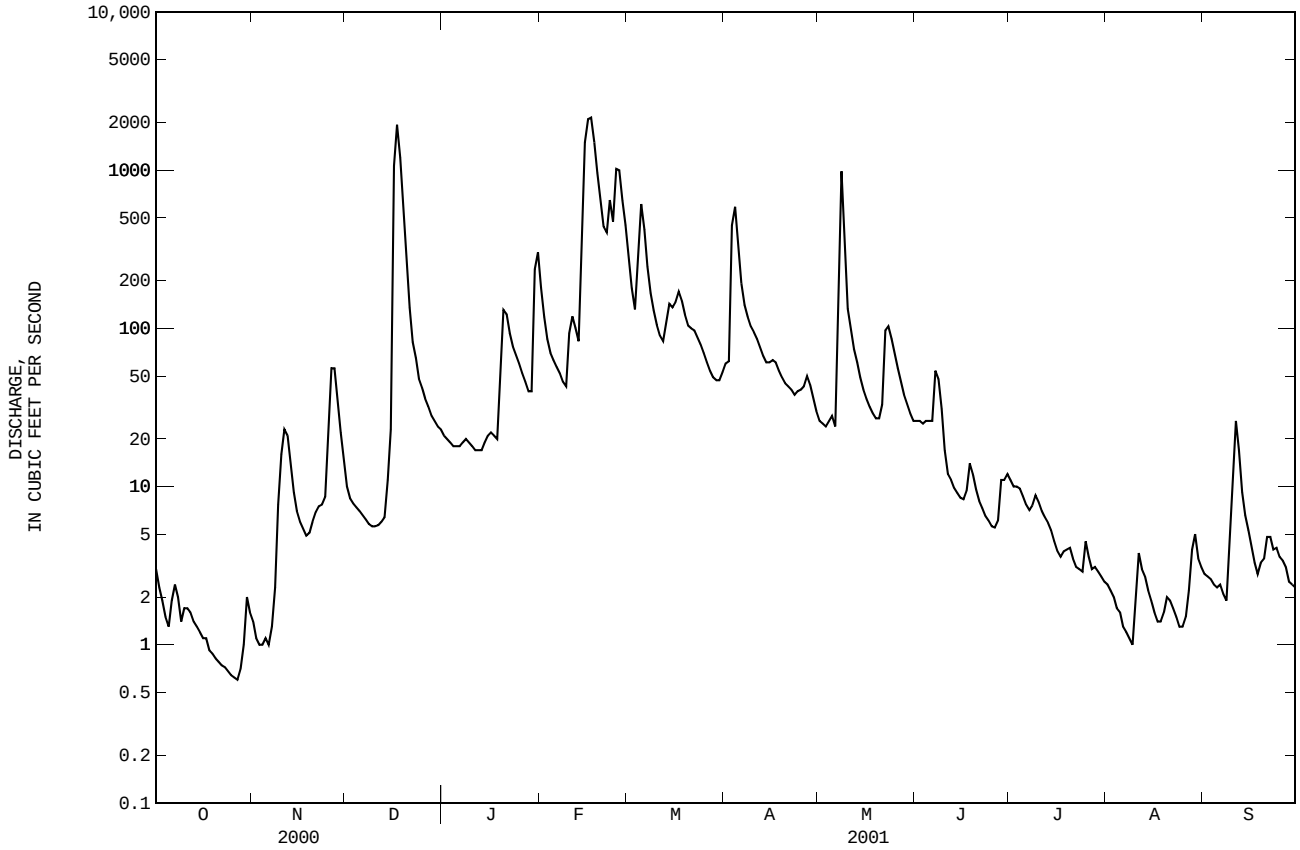
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2001, BY WATER YEAR (WY)

MEAN	21.6	166	387	451	618	603	428	316	118	58.8	30.3	56.0
MAX	208	1430	2167	2024	3988	2519	1822	2607	900	440	239	988
(WY)	1986	1958	1979	1950	1989	1997	1979	1984	1969	1989	1984	1979
MIN	.000	.000	.000	3.56	42.6	35.2	39.2	6.46	1.37	.44	.19	.000
(WY)	1954	1954	1964	1981	1941	1941	1986	1941	1964	1964	1993	1953

03320500 POND RIVER NEAR APEX, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1941 - 2001	
ANNUAL TOTAL	57377.00		34538.60			
ANNUAL MEAN	157		94.6		269	
HIGHEST ANNUAL MEAN					643	1979
LOWEST ANNUAL MEAN					59.8	1941
HIGHEST DAILY MEAN	2600	Feb 19	2150	Feb 17	28400	Feb 15 1989
LOWEST DAILY MEAN	.60	Oct 27	.60	Oct 27	.00	Oct 21 1940
ANNUAL SEVEN-DAY MINIMUM	.67	Oct 22	.67	Oct 22	.00	Oct 21 1940
MAXIMUM PEAK FLOW			2430	Feb 16	35700	May 7 1984
MAXIMUM PEAK STAGE			16.22	Feb 16	26.81	Nov 19 1957
ANNUAL RUNOFF (CFSM)	.81		.49		1.39	
ANNUAL RUNOFF (INCHES)	11.00		6.62		18.86	
10 PERCENT EXCEEDS	508		169		710	
50 PERCENT EXCEEDS	23		17		45	
90 PERCENT EXCEEDS	1.8		1.5		.70	

e Estimated



03321060 POND RIVER NEAR MADISONVILLE, KY

LOCATION.--Lat 37°19'02", long 87°22'09", Hopkins County, Hydrologic Unit 05110006, on left bank 3 ft downstream from bridge on State Highway 70, 4.2 mi downstream from Flat Creek, 5.0 mi upstream from Earle Creek, 6.3 mi east of Madisonville, and at mile 25.9.

DRAINAGE AREA.--469 mi^2.

PERIOD OF RECORD.--July 1991 to September 1996 discharge records. October 1996 to current year, gage height only.

GAGE.--Water-stage recorder. Datum of gage is 361.80 ft above NGVD of 1929.

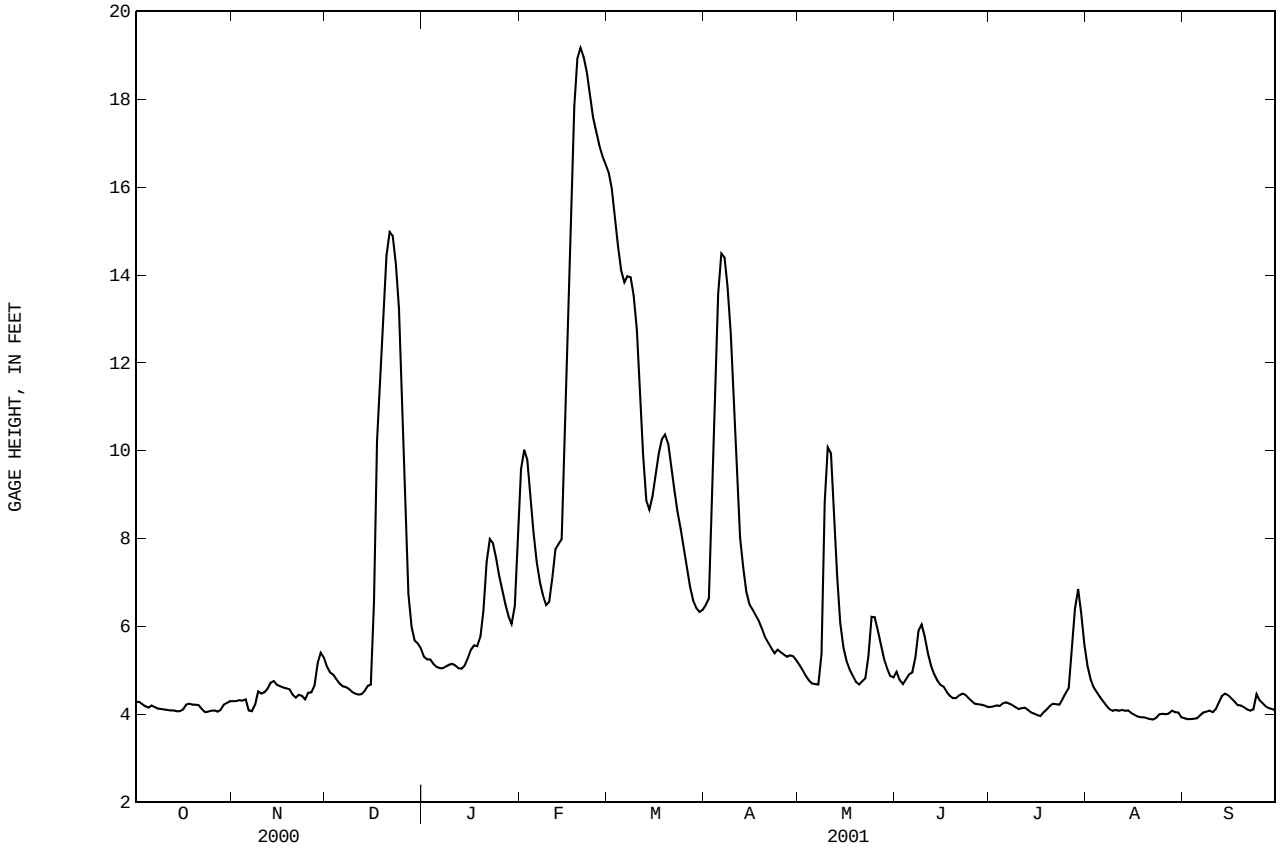
REMARKS.--Records good.

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

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.28	4.30	5.09	5.31	9.58	16.33	6.48	5.12	4.97	4.17	5.09	3.91
2	4.28	4.30	4.95	5.25	10.02	15.97	6.63	5.00	4.78	4.18	4.80	3.89
3	4.23	4.32	4.90	5.25	9.80	15.31	9.62	4.87	4.69	4.20	4.61	3.89
4	4.18	4.31	4.80	5.15	9.00	14.63	12.06	4.77	4.80	4.19	4.50	3.90
5	4.15	4.34	4.70	5.08	8.14	14.10	13.57	4.70	4.91	4.25	4.39	3.91
6	4.20	4.09	4.64	5.05	7.47	13.83	14.49	4.69	4.95	4.27	4.30	3.98
7	4.16	4.07	4.62	5.05	7.01	13.97	14.40	4.68	5.30	4.24	4.20	4.04
8	4.13	4.22	4.58	5.09	6.71	13.95	13.72	5.37	5.90	4.21	4.12	4.06
9	4.12	4.52	4.51	5.13	6.49	13.53	12.66	8.83	6.04	4.16	4.08	4.08
10	4.11	4.47	4.47	5.15	6.56	12.75	11.06	10.08	5.77	4.12	4.10	4.05
11	4.10	4.50	4.45	5.11	7.12	11.48	9.25	9.94	5.39	4.14	4.08	4.12
12	4.09	4.58	4.46	5.05	7.76	9.90	8.03	8.68	5.10	4.15	4.10	4.27
13	4.09	4.72	4.53	5.04	7.88	8.87	7.33	7.13	4.92	4.10	4.08	4.42
14	4.07	4.76	4.65	5.11	7.99	8.66	6.79	6.08	4.77	4.04	4.09	4.47
15	4.07	4.67	4.67	5.28	10.40	8.97	6.50	5.52	4.67	4.01	4.03	4.43
16	4.11	4.64	6.56	5.47	12.86	9.44	6.38	5.22	4.63	3.98	3.99	4.36
17	4.22	4.61	10.23	5.57	15.78	9.94	6.25	5.02	4.51	3.96	3.95	4.29
18	4.24	4.59	11.89	5.55	17.85	10.26	6.12	4.87	4.42	4.05	3.93	4.21
19	4.22	4.57	13.28	5.76	18.92	10.37	5.95	4.74	4.37	4.11	3.93	4.20
20	4.22	4.45	14.44	6.36	19.17	10.16	5.75	4.68	4.37	4.19	3.91	4.16
21	4.21	4.38	14.98	7.47	18.97	9.67	5.63	4.75	4.43	4.24	3.89	4.11
22	4.12	4.44	14.89	7.99	18.62	9.09	5.50	4.82	4.47	4.23	3.88	4.08
23	4.05	4.42	14.24	7.90	18.11	8.61	5.39	5.32	4.44	4.22	3.92	4.11
24	4.06	4.34	13.24	7.56	17.59	8.21	5.47	6.22	4.37	4.34	4.00	4.46
25	4.08	4.49	11.49	7.16	17.27	7.76	5.41	6.21	4.30	4.48	4.01	4.32
26	4.09	4.50	8.75	6.82	16.96	7.31	5.36	5.91	4.24	4.60	4.00	4.25
27	4.06	4.65	6.74	6.51	16.71	6.91	5.31	5.57	4.23	5.45	4.02	4.18
28	4.10	5.16	5.99	6.23	16.53	6.59	5.34	5.26	4.22	6.40	4.08	4.14
29	4.22	5.40	5.68	6.06	---	6.42	5.32	5.04	4.20	6.85	4.05	4.12
30	4.26	5.29	5.61	6.46	---	6.33	5.23	4.87	4.17	6.30	4.04	4.09
31	4.30	---	5.50	8.20	---	6.38	---	4.84	---	5.58	3.93	---
MEAN	4.16	4.54	7.53	5.94	12.40	10.51	7.90	5.77	4.74	4.50	4.13	4.15
MAX	4.30	5.40	14.98	8.20	19.17	16.33	14.49	10.08	6.04	6.85	5.09	4.47
MIN	4.05	4.07	4.45	5.04	6.49	6.33	5.23	4.68	4.17	3.96	3.88	3.89

03321060 POND RIVER NEAR MADISONVILLE, KY--Continued



03378500 WABASH RIVER AT NEW HARMONY, IN

(National stream-quality accounting network station)

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

DRAINAGE AREA.--29,234 mi^2.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES.--October 1974 to 1986, 1997 to current water year.
SEDIMENT DISCHARGE.--Partial record station--October 1974 to 1985.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE.--October 1974 to September 1980.
WATER TEMPERATURES.--October 1974 to September 1980.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE.--Maximum daily recorded, 805 microsiemens, Feb. 15, 1977; minimum daily recorded, 200 microsiemens, Mar. 3, 1979.
WATER TEMPERATURES.--Maximum daily recorded, 32.0°C, June 28, 1978, July 14-18, 1980; minimum daily recorded, freezing point on many days during the winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY (NTU) (00076)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)
NOV												
28...	1210	ENVIRONMENTAL	27100	65	90	.184	.138	758	10.2	7.5	7.8	566
JAN												
09...	1310	ENVIRONMENTAL	13900	9.2	13	.071	.052	762	12.0	7.7	8.0	692
09...	1320	REPLICATE	--	9.6	13	.071	.052	--	--	--	8.0	--
29...	1220	ENVIRONMENTAL	14900	8.5	13	.071	.053	747	12.0	7.7	8.0	692
FEB												
20...	1210	ENVIRONMENTAL	63000	65	92	.142	.107	757	11.7	7.4	7.8	525
20...	1218	FIELD BLANK	--	--	--	--	--	--	--	--	--	--
MAR												
12...	1210	ENVIRONMENTAL	24500	32	40	.086	.063	745	11.4	7.7	8.0	649
12...	1218	FIELD BLANK	--	--	--	--	--	--	--	--	--	--
27...	1310	ENVIRONMENTAL	17100	31	31	.068	.050	761	11.7	8.1	8.3	525
27...	1318	FIELD BLANK	--	--	--	--	--	--	--	--	6.8	--
APR												
03...	1240	ENVIRONMENTAL	13900	30	40	.065	.048	751	15.9	7.9	8.2	623
17...	1220	ENVIRONMENTAL	40000	140	200	.141	.105	759	7.6	7.5	8.0	550
17...	1230	REPLICATE	--	160	200	.141	.105	--	--	--	7.9	--
MAY												
01...	1220	ENVIRONMENTAL	13900	38	51	.102	.075	755	13.1	8.3	7.9	606
22...	1240	ENVIRONMENTAL	20700	140	160	.147	.109	749	6.1	7.5	7.8	528
JUN												
26...	1308	FIELD BLANK	--	--	--	--	<.004	--	--	--	--	--
26...	1310	ENVIRONMENTAL	19600	--	45	.004	<.004	758	9.5	8.0	8.1	556
JUL												
10...	1210	ENVIRONMENTAL	35500	--	<.1	.132	.099	749	5.0	7.4	7.9	444
AUG												
01...	1310	ENVIRONMENTAL	19500	--	120	.159	.120	759	6.7	7.6	8.3	437
01...	1318	FIELD BLANK	--	--	--	--	--	--	--	--	8.5	--
21...	1200	ENVIRONMENTAL	6430	--	26	.078	.057	755	9.8	8.2	8.2	581
21...	1210	REPLICATE	--	--	26	--	--	--	--	--	--	--
SEP												
04...	1140	ENVIRONMENTAL	8400	--	22	.133	.097	752	11.9	8.6	8.6	587

03378500 WABASH RIVER AT NEW HARMONY, IN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
NOV													
28...	10.5	5.6	230	59.2	19.1	6.84	16.7	155	156	190	--	31.7	.2
JAN													
09...	3.0	2.0	280	73.4	22.9	3.07	22.3	208	200	244	--	35.7	.2
09...	--	--	280	74.1	23.1	2.99	22.5	208	200	244	--	35.7	.2
29...	11.5	2.3	280	72.2	23.0	2.85	22.0	207	198	242	--	40.2	.2
FEB													
20...	14.0	4.0	210	57.1	17.3	3.73	12.3	142	137	167	--	28.0	.2
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
12...	14.5	7.7	270	72.0	21.7	2.81	14.9	197	179	218	--	28.4	.2
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	10.5	4.0	260	63.5	25.1	2.23	20.1	169	163	199	--	35.4	.2
27...	--	--	--	E.01	<.008	.01	M	--	--	--	--	<.01	<.01
APR													
03...	16.0	12.0	250	57.4	25.9	2.37	21.3	167	142	174	--	36.1	.2
17...	11.5	16.0	220	57.8	18.9	3.63	15.0	154	136	166	--	29.4	.2
17...	--	--	220	57.4	18.8	3.57	14.9	154	--	--	--	29.7	.2
MAY													
01...	26.5	20.5	260	64.2	24.5	2.80	20.2	186	174	195	8	36.7	.2
22...	23.0	22.5	210	52.6	18.8	4.18	18.8	142	137	167	--	29.4	.2
JUN													
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	29.5	26.0	250	65.3	21.3	3.09	15.4	178	174	194	9	28.9	.2
JUL													
10...	35.0	27.0	180	45.2	15.9	3.55	15.3	122	110	135	--	23.3	.2
AUG													
01...	35.0	30.0	180	44.9	15.4	4.64	14.5	132	129	158	--	23.0	.2
01...	--	--	--	E.01	<.008	<.01	<.1	--	--	--	--	M	<.01
21...	27.5	26.5	210	42.6	25.0	3.32	30.7	158	152	173	6	45.9	.2
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
04...	31.0	27.5	240	59.3	21.1	4.58	27.1	161	168	183	11	40.4	.3

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)
NOV													
28...	7.9	58.7	315	E.025	.63	1.5	2.87	.012	<.060	E.005	.486	2.8	<.1
JAN													
09...	7.5	68.4	386	.085	.39	.49	3.26	.013	.073	.067	.115	.9	<.1
09...	7.5	68.1	386	.087	.37	.49	3.27	.013	.071	.068	.114	.8	<.1
29...	7.1	65.1	406	.071	.40	.48	4.03	.012	.080	.074	.125	.7	<.1
FEB													
20...	7.4	42.1	291	.071	.60	1.1	6.24	.024	.100	.092	.288	3.8	<.1
20...	--	--	--	--	--	--	--	--	--	--	--	<.1	<.1
MAR													
12...	6.7	57.1	366	<.041	.26	.72	4.83	.013	.060	.055	.160	1.6	<.1
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	<.1	67.9	339	<.041	.26	1.5	3.14	.009	.007	<.007	.133	6.5	<.1
27...	<.1	<.01	--	.002	--	--	<.005	<.001	--	<.007	--	--	--
APR													
03...	E.1	70.7	344	<.041	.27	1.6	2.56	.009	.007	<.007	.140	5.4	<.1
17...	4.4	45.5	301	<.041	.44	1.4	5.26	.083	.077	.071	.405	5.5	<.1
17...	4.4	45.6	296	<.041	.47	1.5	5.30	.084	.079	.072	.422	3.2	<.1
MAY													
01...	<.1	62.5	377	<.041	.36	1.5	3.13	<.006	.008	<.007	.191	5.5	<.1
22...	3.9	61.0	310	.049	.59	1.8	3.39	.215	.059	.040	.339	9.1	.1
JUN													
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	4.3	49.5	327	.048	.31	1.5	4.13	.023	.049	.038	.132	.4	<.1
JUL													
10...	5.3	50.8	261	<.040	.32	1.6	2.05	.038	.062	.055	.469	13	.3
AUG													
01...	4.2	46.5	242	<.040	.43	1.5	1.32	.026	.097	.088	.319	9.1	.3
01...	<.1	<.01	--	.003	--	--	.006	<.001	--	<.007	--	--	--
21...	.1	70.8	338	<.040	.31	1.3	<.050	<.006	.011	<.007	.137	9.0	<.1
21...	--	--	--	<.040	.31	1.3	<.050	<.006	.015	<.007	.141	--	--
SEP													
04...	2.8	66.3	336	<.040	.40	1.1	.733	.015	.024	.034	.191	6.8	<.1

03378500 WABASH RIVER AT NEW HARMONY, IN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	PHEO-PHYTIN A, PHYTO-PHYTON (UG/L) (62360)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
NOV													
28...	6.6	2.8	4.4	3.3	4	.17	<2.0	71	E.04	<.8	.31	2.8	30
JAN													
09...	2.7	.9	1.0	1.7	--	--	1.0	85	--	--	--	--	20
09...	2.7	.8	1.0	1.9	--	--	1.1	92	--	--	--	--	<10
29...	2.7	.7	E1.6	E2.5	--	--	.9	87	--	--	--	--	M
FEB													
20...	4.7	3.8	5.2	2.8	--	--	.8	40	--	--	--	--	10
20...	.24	<.1	--	--	--	--	--	--	--	--	--	--	--
MAR													
12...	2.9	1.6	6.8	11.7	--	--	.9	66	--	--	--	--	<10
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	2.8	6.5	42	83.8	--	--	.6	85	--	--	--	--	<10
27...	--	--	--	--	--	--	<.2	<7	--	--	--	--	<10
APR													
03...	2.8	5.4	57	119	--	--	.4	102	--	--	--	--	M
17...	4.1	5.5	23	18.7	--	--	1.1	57	--	--	--	--	<10
17...	4.2	3.2	11	6.6	--	--	1.0	56	--	--	--	--	M
MAY													
01...	3.6	5.5	50	102	--	--	.8	81	--	--	--	--	<10
22...	4.7	8.9	56	33.4	--	--	1.1	93	--	--	--	--	<10
JUN													
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	3.6	6.5	--	--	--	--	1.2	77	--	--	--	--	<10
JUL													
10...	4.4	12	--	--	--	--	1.1	72	--	--	--	--	<10
AUG													
01...	4.6	8.8	--	--	--	--	1.5	83	--	--	--	--	<10
01...	--	--	--	--	--	--	<.2	<7	--	--	--	--	<10
21...	3.2	9.0	--	--	--	--	1.1	184	--	--	--	--	<10
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
04...	4.6	6.7	--	--	--	--	1.9	137	--	--	--	--	<10

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)
NOV													
28...	E.06	4.0	6.6	2.6	2.13	<2.4	<1.0	195	<8.0	3	<.002	.032	<.002
JAN													
09...	--	3.1	--	--	--	.9	--	232	1.6	--	<.002	.005	<.002
09...	--	3.4	--	--	--	.9	--	235	1.5	--	<.002	.005	<.002
29...	--	3.3	--	--	--	.9	--	272	.7	--	<.002	.007	E.003
FEB													
20...	--	1.7	--	--	--	1.1	--	162	1.6	--	<.002	.013	.004
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
12...	--	2.5	--	--	--	1.0	--	203	1.2	--	<.002	<.004	<.002
12...	--	--	--	--	--	--	--	--	--	--	<.002	<.009	<.004
27...	--	3.3	--	--	--	1.0	--	229	1.5	--	<.002	<.004	<.002
27...	--	<.3	--	--	--	<.3	--	E.04	E.1	--	--	--	--
APR													
03...	--	3.9	--	--	--	.7	--	250	.9	--	<.002	.005	<.002
17...	--	2.4	--	--	--	.8	--	197	1.6	--	<.002	.105	.014
17...	--	2.4	--	--	--	.7	--	199	1.1	--	<.002	.111	.013
MAY													
01...	--	3.6	--	--	--	.7	--	249	1.1	--	<.002	.026	.005
22...	--	3.9	--	--	--	.7	--	181	1.1	--	<.002	1.88	.308
JUN													
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	2.4	--	--	--	.6	--	210	1.6	--	<.002	.096	.015
JUL													
10...	--	2.2	--	--	--	.7	--	139	1.3	--	<.002	.082	.005
AUG													
01...	--	2.2	--	--	--	.5	--	149	1.9	--	<.002	.051	.012
01...	--	<.3	--	--	--	<.3	--	<.08	<.2	--	--	--	--
21...	--	3.9	--	--	--	1.0	--	200	.8	--	<.002	<.010	<.002
21...	--	--	--	--	--	--	--	--	--	--	<.002	<.004	<.002
SEP													
04...	--	4.0	--	--	--	.7	--	280	2.0	--	<.002	.080	<.002

03378500 WABASH RIVER AT NEW HARMONY, IN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)
NOV													
28...	<.005	.438	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.070	<.005	<.005	<.021
JAN													
09...	<.005	.093	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.039	<.005	<.005	<.021
09...	<.005	.102	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.050	<.005	<.005	<.021
29...	<.005	.085	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.042	<.005	<.005	<.021
FEB													
20...	<.005	.108	<.010	<.002	<.041	<.020	<.005	E.005	<.003	E.047	<.005	<.005	<.021
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
12...	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.021
12...	<.005	.084	<.010	<.002	E.012	<.020	<.005	<.018	<.003	E.043	<.005	<.005	<.021
27...	<.005	.069	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.023	<.005	<.005	<.021
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	<.005	.242	<.010	<.002	<.041	<.020	<.005	E.006	<.003	E.026	<.005	<.005	<.021
17...	<.005	1.23	<.010	<.002	<.041	<.020	<.005	E.017	<.003	E.075	.009	<.005	<.021
17...	<.005	1.23	<.010	<.002	<.041	<.020	<.005	E.017	<.003	E.085	.009	<.005	<.021
MAY													
01...	<.005	.394	<.010	<.002	<.041	<.020	<.005	E.009	<.003	E.040	.005	<.005	<.021
22...	<.005	16.1	<.010	<.002	E.009	<.020	E.004	E.013	<.003	E.809	.009	<.005	<.021
JUN													
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.005	1.36	<.010	<.002	<.041	<.020	<.005	E.012	<.003	E.388	E.004	<.005	<.021
JUL													
10...	<.005	.655	<.010	<.002	E.010	<.020	<.005	<.018	<.003	E.134	.013	<.005	<.021
AUG													
01...	<.005	.423	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.102	.007	<.005	<.021
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	<.005	.346	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.065	<.005	<.005	<.021
21...	<.005	.340	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.061	<.005	<.005	<.021
SEP													
04...	<.005	.445	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.135	E.005	<.005	<.021

DATE	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
NOV													
28...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.126	.154	<.002	<.007
JAN													
09...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.033	<.006	<.002	<.007
09...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.037	<.006	<.002	<.007
29...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.049	<.006	<.002	<.007
FEB													
20...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.110	.010	<.002	<.007
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
12...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007
12...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.080	<.006	<.002	<.007
27...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.051	<.006	<.002	<.007
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.055	<.006	<.002	<.007
17...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.662	.085	<.002	<.007
17...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.673	.090	<.002	<.007
MAY													
01...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.128	.015	<.002	<.007
22...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	3.64	.073	<.002	<.007
JUN													
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.386	.009	<.002	<.007
JUL													
10...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.257	<.006	<.002	<.007
AUG													
01...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.177	<.006	<.002	<.007
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.062	<.006	<.002	<.007
21...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.063	<.006	<.002	<.007
SEP													
04...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.251	.009	<.002	<.007

03378500 WABASH RIVER AT NEW HARMONY, IN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
NOV													
28...	<.003	<.007	<.002	<.010	<.006	<.011	E.008	<.004	<.010	<.011	<.023	1.13	<.016
JAN													
09...	<.003	<.007	<.002	<.010	<.006	<.011	E.006	<.004	<.010	<.011	<.023	.044	<.016
09...	<.003	<.007	<.002	<.010	<.006	<.011	E.006	<.004	<.010	<.011	<.023	.047	<.016
29...	<.003	<.007	<.002	<.010	<.006	<.011	E.006	<.004	<.010	<.011	<.023	.071	E.006
FEB													
20...	<.003	<.007	<.002	<.010	<.006	<.011	E.005	<.004	<.010	<.011	<.023	.144	<.016
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
12...	<.003	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016
12...	<.003	<.007	<.002	<.010	<.006	<.011	E.005	<.004	<.010	<.011	<.023	.091	E.006
27...	<.003	<.007	<.002	<.010	<.006	<.011	E.005	<.004	<.010	<.011	<.023	.038	<.016
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	<.003	<.007	<.002	<.010	<.006	<.011	E.005	<.004	<.010	<.011	<.023	.123	E.006
17...	<.003	<.007	<.002	<.010	<.006	<.011	E.013	<.004	<.010	<.011	<.023	.220	E.008
17...	<.003	<.007	<.002	<.010	<.006	<.011	E.015	<.004	<.010	<.011	<.023	.230	E.007
MAY													
01...	<.003	<.007	<.002	<.010	<.006	<.011	E.008	<.004	<.010	<.011	<.023	.072	E.007
22...	<.003	<.007	<.002	<.010	<.006	<.011	.040	<.004	<.010	<.011	<.023	1.30	E.006
JUN													
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.003	<.007	<.002	<.010	<.006	<.011	.049	<.004	<.010	<.011	<.023	.136	E.008
JUL													
10...	<.003	<.007	<.002	<.010	<.006	<.011	.047	<.004	<.010	<.011	<.023	.091	E.006
AUG													
01...	<.003	<.007	<.002	<.010	<.006	<.011	.042	<.004	<.010	<.011	<.023	.059	E.008
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	<.003	<.007	<.002	<.010	<.006	<.011	.030	<.004	<.010	<.011	<.023	.032	<.016
21...	<.003	<.007	<.002	<.010	<.006	<.011	.029	<.004	<.010	<.011	<.023	.032	<.016
SEP													
04...	<.003	<.007	<.002	<.010	<.006	<.011	.063	<.004	<.010	<.011	<.023	.049	E.007

DATE	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV						
28...	<.034	<.017	<.005	<.002	95	171
JAN						
09...	<.034	<.017	<.005	<.002	97	18
09...	<.034	<.017	<.005	<.002	--	--
29...	<.034	<.017	<.005	<.002	97	24
FEB						
20...	<.034	<.017	<.005	<.002	91	152
20...	--	--	--	--	--	--
MAR						
12...	<.034	<.017	<.005	<.002	97	75
12...	<.034	<.017	<.005	<.002	--	--
27...	<.034	<.017	<.005	<.002	98	78
27...	--	--	--	--	--	--
APR						
03...	<.034	<.017	<.005	<.002	99	74
17...	<.034	<.017	<.005	<.002	98	349
17...	<.034	<.017	<.005	<.002	--	--
MAY						
01...	<.034	<.017	<.005	<.002	99	101
22...	<.034	<.017	<.005	<.002	99	281
JUN						
26...	--	--	--	--	--	--
26...	<.034	<.017	<.005	<.002	98	168
JUL						
10...	<.034	<.017	<.005	<.002	99	448
AUG						
01...	<.034	<.017	<.005	<.002	99	212
01...	--	--	--	--	--	--
21...	<.034	<.017	<.005	<.002	--	--
21...	<.034	<.017	<.005	<.002	--	--
SEP						
04...	<.034	<.017	<.005	<.002	--	--

E Estimated
M Presence of material verified but not quantified

03383000 TRADEWATER RIVER AT OLNEY, KY

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

DRAINAGE AREA.--255 mi^2, of which about 9 mi^2 does not contribute directly to surface runoff.

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

GAGE.--Water-stage recorder. Datum of gage is 362.80 ft above NGVD of 1929. Prior to July 31, 1942, nonrecording gage at same site and datum.

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 January 1937 reached a stage of 19.27 ft, from floodmarks, discharge, 17,000 ft^3/s, by slope-area measurement from U.S. Army Corps of Engineers.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 18	0100	*2,350	*13.80	No other peaks above base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.4	e2.6	43	47	292	362	125	33	9.0	2.9	7.2	47
2	e3.3	e2.7	34	40	189	278	133	26	11	3.9	2.8	56
3	e3.2	e2.8	30	36	147	229	609	21	17	.73	1.0	41
4	e3.1	e3.0	27	33	127	506	1030	18	22	.37	.35	30
5	e12	e3.8	21	34	118	978	830	15	62	.44	.18	23
6	26	e5.0	18	36	112	749	458	13	64	.38	.16	18
7	45	e8.9	17	41	104	452	289	11	120	.22	.10	17
8	26	e34	16	45	95	301	224	11	117	.18	.07	20
9	11	69	17	43	93	239	189	15	83	.18	.06	41
10	4.6	90	15	37	147	200	165	24	60	.18	.05	45
11	3.5	57	18	33	172	178	157	40	39	.21	.08	45
12	e3.0	33	31	32	163	167	151	33	24	.16	33	98
13	e2.9	e20	47	33	145	235	138	21	15	.12	14	58
14	e2.9	e15	71	38	367	274	119	15	8.5	.11	3.6	31
15	e3.1	e10	108	46	1590	250	111	11	4.8	.10	1.7	18
16	e3.0	e7.4	807	48	2000	278	114	8.5	2.8	1.7	.70	11
17	e2.9	e5.7	1650	46	2270	435	109	6.2	2.1	1.6	.22	7.6
18	e2.8	e4.3	e1500	43	e2200	407	98	4.8	1.4	.10	.11	5.6
19	e2.7	e3.6	e1400	55	e1900	290	87	3.6	1.2	.05	.12	6.8
20	e2.6	e3.2	e980	95	e1500	228	79	3.0	17	.12	.08	7.8
21	e4.0	e2.8	335	135	e1200	202	73	20	128	.53	.09	15
22	e2.9	e2.6	e130	125	e980	188	67	28	101	.39	.14	14
23	e1.9	e2.5	e100	106	e900	171	64	21	39	.27	.14	18
24	e1.4	e4.5	e80	94	e720	155	71	21	13	2.9	8.4	106
25	e1.1	31	e76	87	931	141	75	26	4.8	44	6.2	93
26	e1.0	120	e72	80	e1200	128	67	30	3.4	57	4.2	48
27	e1.0	131	65	74	e940	117	61	23	3.1	111	4.6	27
28	e1.4	118	62	67	e580	109	53	17	3.5	189	5.8	16
29	e2.0	85	59	73	---	103	44	12	2.5	66	5.5	9.8
30	e3.0	59	54	156	---	102	37	9.1	1.4	35	4.9	6.9
31	e2.5	---	51	321	---	113	---	8.9	---	16	14	---
TOTAL	189.2	937.4	7934	2179	21182	8565	5827	549.1	980.5	535.84	119.55	980.5
MEAN	6.10	31.2	256	70.3	756	276	194	17.7	32.7	17.3	3.86	32.7
MAX	45	131	1650	321	2270	978	1030	40	128	189	33	106
MIN	1.0	2.5	15	32	93	102	37	3.0	1.2	.05	.05	5.6
CFSM	.02	.13	1.04	.29	3.08	1.12	.79	.07	.13	.07	.02	.13
IN.	.03	.14	1.20	.33	3.20	1.30	.88	.08	.15	.08	.02	.15

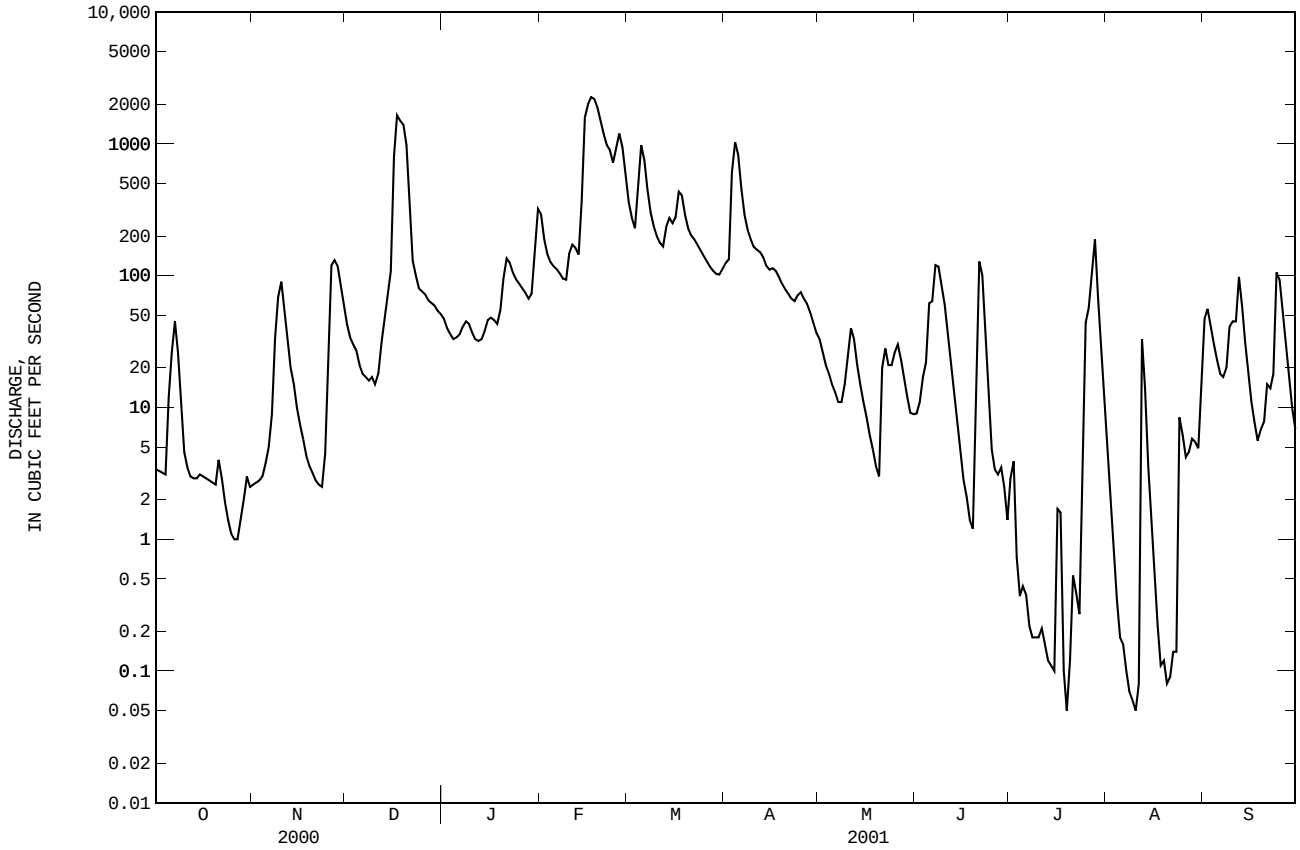
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2001, BY WATER YEAR (WY)

MEAN	28.1	200	432	559	728	765	585	388	150	89.5	35.5	48.5
MAX	324	2178	1963	2268	3529	2360	1851	1878	949	946	275	798
(WY)	1997	1958	1979	1950	1989	1997	1979	1983	1969	1989	1985	1950
MIN	.000	.000	.96	4.85	19.2	61.9	53.7	7.09	1.18	.003	.000	.000
(WY)	1941	1954	1964	1964	1964	1941	1986	1941	1944	1952	1952	1953

03383000 TRADEWATER RIVER AT OLNEY, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1941 - 2001	
ANNUAL TOTAL	81013.38		49979.09			
ANNUAL MEAN	221		137		328	
HIGHEST ANNUAL MEAN					701	1989
LOWEST ANNUAL MEAN					61.6	1941
HIGHEST DAILY MEAN	2670	Jan 4	2270	Feb 17	14000	Feb 16 1989
LOWEST DAILY MEAN	.98	Sep 23	.05	Jul 19	.00	Oct 1 1940
ANNUAL SEVEN-DAY MINIMUM	1.4	Oct 23	.10	Aug 5	.00	Oct 1 1940
MAXIMUM PEAK FLOW			2350	Feb 18	14600	Feb 16 1989
MAXIMUM PEAK STAGE			13.80	Feb 18	18.85	Feb 16 1989
ANNUAL RUNOFF (CFSM)	.90		.56		1.33	
ANNUAL RUNOFF (INCHES)	12.25		7.56		18.12	
10 PERCENT EXCEEDS	688		289		1110	
50 PERCENT EXCEEDS	49		32		61	
90 PERCENT EXCEEDS	2.9		1.0		1.1	

e Estimated



03399800 OHIO RIVER AT SMITHLAND DAM, SMITHLAND, KY

LOCATION.--Lat 37°09'30", long 88°25'34", Livingston County, Hydrologic Unit 05140203, at Smithland Dam, 1.1 mi upstream from Cumberland Island, 1.8 mi northwest of Smithland, and at mile 919.0

DRAINAGE AREA.--144,000 mi^2, approximately.

PERIOD OF RECORD.--October 1993 to current year.

GAGE.--Gate opening, and water-stage recorders. Datum of headwater gage is 311.94 ft above NGVD of 1929. Datum of tailwater gage 0.8 mi downstream is 289.98 ft above NGVD of 1929.

REMARKS.--Records fair. Daily discharge computed from tailwater elevation, head, gate openings, and lockages. Flow regulated by Ohio River system of locks, dams, and reservoirs upstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124000	36400	84100	77800	162000	355000	114000	81400	216000	48400	189000	48300
2	80500	31500	92300	69500	208000	323000	110000	78900	164000	47800	223000	71200
3	71700	29600	84900	77500	258000	e300000	167000	65700	133000	43900	238000	64800
4	65500	34700	72000	53100	283000	e290000	188000	64200	134000	57400	216000	38300
5	55200	36900	78300	52800	300000	e250000	200000	66300	147000	59100	167000	31100
6	53300	40900	64600	56800	284000	e240000	187000	50200	164000	57600	127000	47500
7	74300	41100	54700	53800	236000	251000	165000	42500	188000	50500	71600	32300
8	87300	35900	47400	57000	197000	261000	159000	58700	214000	75500	78300	42000
9	105000	30800	42900	56800	167000	246000	155000	65100	242000	95200	57300	42700
10	117000	53100	47300	56400	162000	217000	155000	50300	248000	115000	60000	49200
11	108000	73600	53300	49200	169000	183000	167000	37100	252000	142000	45700	41300
12	98800	80000	59800	44400	176000	157000	179000	55300	257000	165000	64400	55300
13	99700	64900	87700	49700	192000	144000	186000	54800	231000	144000	74100	35400
14	101000	85300	94400	46600	211000	136000	215000	53900	170000	114000	74900	33300
15	98800	95500	106000	46900	240000	139000	255000	34500	127000	91900	65500	33000
16	69000	80900	142000	55200	286000	161000	281000	47100	110000	67800	68500	24700
17	61500	61100	237000	65500	352000	183000	290000	52400	91200	49500	59500	28800
18	55900	75100	302000	60200	402000	193000	270000	87300	84900	69300	50800	24200
19	50900	84200	328000	82800	430000	204000	226000	125000	73600	90200	35300	25100
20	49800	46300	339000	102000	451000	210000	189000	172000	84300	126000	42500	33100
21	52300	44600	330000	119000	466000	213000	187000	227000	77500	104000	24900	30500
22	57200	56700	318000	159000	484000	210000	184000	281000	61200	71000	36600	40300
23	48700	53500	e300000	185000	488000	208000	176000	314000	73600	52200	23500	27600
24	46900	51100	e270000	205000	481000	218000	174000	329000	77800	60200	41600	45400
25	37000	58100	e230000	191000	467000	232000	164000	328000	77600	57800	23200	33900
26	36000	65800	188000	155000	438000	243000	158000	328000	76600	79600	42100	29800
27	45400	58300	142000	124000	404000	243000	151000	335000	74300	86400	45300	24900
28	51100	57100	110000	111000	377000	225000	130000	344000	84500	105000	40500	53100
29	48600	79000	82200	109000	---	188000	116000	339000	61900	115000	43600	47300
30	36800	88700	78000	98200	---	148000	95300	311000	47800	166000	56900	28600
31	27700	---	78200	116000	---	135000	---	271000	---	170000	44200	---
TOTAL	2114900	1730700	4544100	2786200	8771000	6706000	5393300	4749700	4043800	2777300	2430800	1163000
MEAN	68220	57690	146600	89880	313200	216300	179800	153200	134800	89590	78410	38770
MAX	124000	95500	339000	205000	488000	355000	290000	344000	257000	170000	238000	71200
MIN	27700	29600	42900	44400	162000	135000	95300	34500	47800	43900	23200	24200

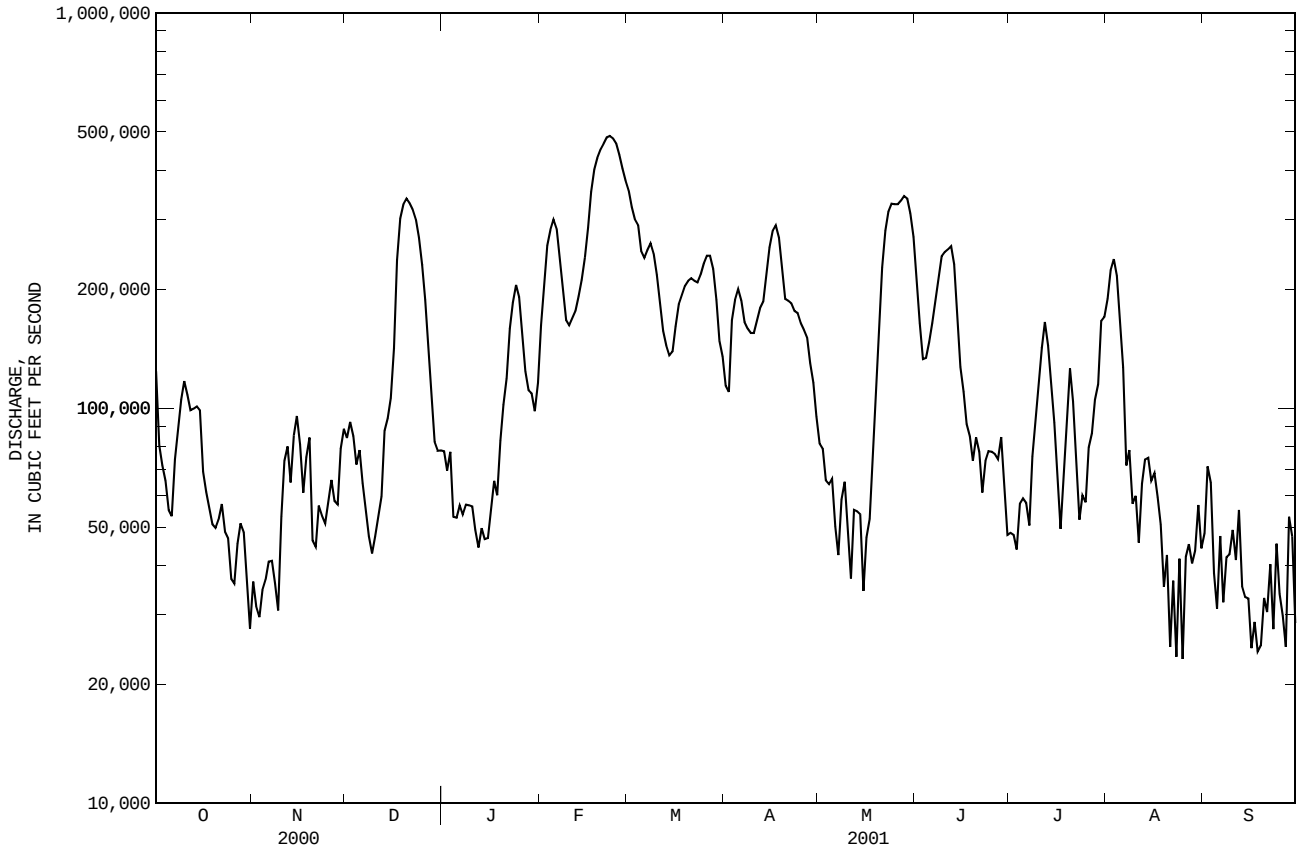
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2001, BY WATER YEAR (WY)

MEAN	56300	106100	178000	200100	316400	366400	295300	295300	227700	103100	78860	43060
MAX	107500	226400	379200	254400	536200	700900	594100	562200	376000	203600	88600	86710
(WY)	1997	1994	1997	1998	1994	1997	1994	1996	1997	1998	1996	1996
MIN	24530	39700	86960	89880	213000	216300	150000	112600	71710	67010	54160	22380
(WY)	2000	2000	2000	2001	1995	2000	1995	2000	1994	1994	1997	1995

03399800 OHIO RIVER AT SMITHLAND DAM, SMITHLAND, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1994 - 2001	
ANNUAL TOTAL	48008000		47210800			
ANNUAL MEAN	131200		129300		188200	
HIGHEST ANNUAL MEAN					247000	1994
LOWEST ANNUAL MEAN					120900	2000
HIGHEST DAILY MEAN	481000	Feb 27	488000	Feb 23	831000	Mar 12 1997
LOWEST DAILY MEAN	25100	Jan 31	23200	Aug 25	6870	Oct 13 1997
ANNUAL SEVEN-DAY MINIMUM	32000	Jan 30	28500	Sep 15	16700	Oct 27 1999
MAXIMUM PEAK FLOW			489000	Feb 23	832000	Mar 12 1997
MAXIMUM PEAK STAGE			37.22	Feb 23	51.44	Mar 12 1997
10 PERCENT EXCEEDS	301000		281000		448000	
50 PERCENT EXCEEDS	94400		84900		125000	
90 PERCENT EXCEEDS	38600		40400		32900	

e Estimated



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

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE.--October 1979 to current water year.
pH.--October 1979 to current water year.
WATER TEMPERATURES.--October 1979 to current water year.
DISSOLVED OXYGEN.--October 1979 to current water year.

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

REMARKS.--Four submersible pumps are located on Martins Fork Dam, at four different elevations referenced to sea level. Pump 1 is located near the bottom of the lake, at an elevation of 1,272 ft; pump 2 is at an elevation of 1,285 ft; pump 3 at an elevation of 1,298 ft, and pump 4 at an elevation of 1,308 ft, occassional operation. Each lake level is sampled once every four hours, or six times per day. A maximum and minimum value for pH and a maximum, minimum, and mean value for temperature, specific conductance, and dissolved oxygen are determined for each level. The monitor was shut down Nov. 18 to Mar. 18.

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

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	193	191	192	174	173	173	---	---	---	---	---	---
2	193	190	192	175	173	174	---	---	---	---	---	---
3	196	191	194	177	176	176	---	---	---	---	---	---
4	197	192	194	178	177	177	---	---	---	---	---	---
5	193	191	192	179	176	177	---	---	---	---	---	---
6	194	190	192	179	172	177	---	---	---	---	---	---
7	194	192	193	172	172	172	---	---	---	---	---	---
8	201	192	195	172	171	172	---	---	---	---	---	---
9	199	193	196	172	171	171	---	---	---	---	---	---
10	195	165	189	174	171	172	---	---	---	---	---	---
11	166	164	165	176	170	172	---	---	---	---	---	---
12	167	164	166	172	171	172	---	---	---	---	---	---
13	168	167	167	172	172	172	---	---	---	---	---	---
14	170	168	169	173	172	172	---	---	---	---	---	---
15	171	170	170	175	173	174	---	---	---	---	---	---
16	173	171	172	176	174	175	---	---	---	---	---	---
17	173	172	173	174	173	173	---	---	---	---	---	---
18	175	173	174	---	---	---	---	---	---	---	---	---
19	176	175	175	---	---	---	---	---	---	---	---	---
20	178	176	176	---	---	---	---	---	---	---	---	---
21	180	175	177	---	---	---	---	---	---	---	---	---
22	176	176	176	---	---	---	---	---	---	---	---	---
23	177	176	177	---	---	---	---	---	---	---	---	---
24	178	177	178	---	---	---	---	---	---	---	---	---
25	179	178	179	---	---	---	---	---	---	---	---	---
26	179	179	179	---	---	---	---	---	---	---	---	---
27	181	179	180	---	---	---	---	---	---	---	---	---
28	184	177	181	---	---	---	---	---	---	---	---	---
29	179	177	178	---	---	---	---	---	---	---	---	---
30	180	178	179	---	---	---	---	---	---	---	---	---
31	181	173	176	---	---	---	---	---	---	---	---	---
MONTH	201	164	181	179	170	174	---	---	---	---	---	---

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

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	116	115	116	116	115	116
2	---	---	---	---	---	---	120	120	120	116	116	116
3	---	---	---	---	---	---	125	117	122	117	116	117
4	---	---	---	---	---	---	128	122	125	117	117	117
5	---	---	---	---	---	---	126	118	122	118	117	118
6	---	---	---	---	---	---	130	118	125	118	118	118
7	---	---	---	---	---	---	127	122	125	119	118	119
8	---	---	---	---	---	---	125	122	124	120	119	119
9	---	---	---	---	---	---	124	121	123	120	119	120
10	---	---	---	---	---	---	124	121	123	121	120	121
11	---	---	---	---	---	---	125	124	124	121	121	121
12	---	---	---	---	---	---	125	124	125	122	121	122
13	---	---	---	---	---	---	125	124	125	123	121	122
14	---	---	---	---	---	---	126	125	125	122	122	122
15	---	---	---	---	---	---	126	125	126	123	123	123
16	---	---	---	---	---	---	126	124	125	124	123	124
17	---	---	---	---	---	---	125	123	124	124	123	124
18	---	---	---	---	---	---	124	122	124	125	125	125
19	---	---	---	107	106	106	125	122	123	126	125	126
20	---	---	---	129	114	121	122	119	121	126	126	126
21	---	---	---	115	109	111	122	121	122	127	126	126
22	---	---	---	116	110	113	120	118	120	127	126	126
23	---	---	---	121	107	110	118	116	118	127	125	126
24	---	---	---	126	110	116	117	116	116	127	125	126
25	---	---	---	123	113	116	116	114	115	130	128	129
26	---	---	---	118	111	114	114	114	114	129	128	129
27	---	---	---	122	119	121	114	114	114	129	128	129
28	---	---	---	118	114	115	114	114	114	129	128	129
29	---	---	---	122	117	120	115	114	114	131	130	130
30	---	---	---	119	117	118	115	115	115	133	131	132
31	---	---	---	123	116	118	---	---	---	134	133	134
MONTH	---	---	---	129	106	115	130	114	121	134	115	124

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	136	134	135	157	155	156	174	173	174	119	114	117
2	137	136	136	157	156	156	175	174	175	128	115	119
3	138	137	138	158	156	157	176	174	175	124	117	120
4	141	139	140	159	158	158	174	173	174	120	115	118
5	142	141	141	159	159	159	174	173	173	123	117	119
6	144	143	144	160	159	160	174	173	173	126	119	121
7	145	145	145	161	159	160	175	174	174	127	124	125
8	145	144	145	161	160	160	175	174	175	127	126	126
9	145	144	144	161	161	161	176	174	175	128	125	126
10	145	144	144	162	160	160	176	175	176	128	125	127
11	144	144	144	163	161	162	177	176	176	129	126	127
12	144	143	144	164	162	163	176	173	175	129	127	128
13	144	143	143	165	163	164	174	170	172	128	126	127
14	143	143	143	166	164	165	167	117	146	130	125	126
15	144	143	143	167	165	166	120	112	114	129	126	128
16	144	143	144	167	166	166	116	113	114	129	126	128
17	144	144	144	168	165	166	118	114	116	130	128	129
18	145	144	145	167	166	166	118	114	116	131	129	130
19	146	145	146	166	165	165	114	111	112	130	128	129
20	146	146	146	168	165	167	117	111	114	130	128	129
21	148	146	148	171	168	169	116	110	113	133	130	131
22	149	148	148	169	169	169	116	108	111	134	133	133
23	150	149	149	169	165	167	116	108	111	136	133	134
24	151	150	151	172	165	168	117	111	114	137	136	137
25	152	150	151	171	169	170	114	107	111	142	136	140
26	152	151	152	170	170	170	118	108	115	137	133	134
27	154	152	153	173	172	173	118	111	115	136	131	133
28	155	154	155	173	172	172	121	114	118	135	132	133
29	155	154	155	174	172	173	119	115	117	135	133	134
30	155	155	155	173	172	173	123	115	119	135	134	134
31	---	---	---	174	172	173	123	117	119	---	---	---
MONTH	155	134	146	174	155	165	177	107	141	142	114	128
YEAR	201	106	144									

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

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	167	165	166	174	173	173	---	---	---	---	---	---
2	168	167	167	174	173	174	---	---	---	---	---	---
3	170	167	168	176	174	176	---	---	---	---	---	---
4	172	169	170	177	176	176	---	---	---	---	---	---
5	172	170	171	177	176	177	---	---	---	---	---	---
6	170	169	170	179	172	177	---	---	---	---	---	---
7	170	169	169	172	172	172	---	---	---	---	---	---
8	168	167	168	172	171	171	---	---	---	---	---	---
9	168	166	167	172	168	170	---	---	---	---	---	---
10	166	165	166	173	168	170	---	---	---	---	---	---
11	167	166	167	175	170	172	---	---	---	---	---	---
12	168	167	168	172	172	172	---	---	---	---	---	---
13	169	168	169	172	172	172	---	---	---	---	---	---
14	170	169	169	173	172	172	---	---	---	---	---	---
15	172	170	171	175	173	174	---	---	---	---	---	---
16	172	170	171	175	174	175	---	---	---	---	---	---
17	171	170	171	174	174	174	---	---	---	---	---	---
18	172	171	171	---	---	---	---	---	---	---	---	---
19	173	171	172	---	---	---	---	---	---	---	---	---
20	174	173	173	---	---	---	---	---	---	---	---	---
21	176	173	175	---	---	---	---	---	---	---	---	---
22	174	173	173	---	---	---	---	---	---	---	---	---
23	174	172	173	---	---	---	---	---	---	---	---	---
24	174	173	174	---	---	---	---	---	---	---	---	---
25	175	174	174	---	---	---	---	---	---	---	---	---
26	175	174	175	---	---	---	---	---	---	---	---	---
27	175	174	175	---	---	---	---	---	---	---	---	---
28	180	173	177	---	---	---	---	---	---	---	---	---
29	174	172	173	---	---	---	---	---	---	---	---	---
30	174	171	172	---	---	---	---	---	---	---	---	---
31	173	172	172	---	---	---	---	---	---	---	---	---
MONTH	180	165	171	179	168	173	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	117	116	116	117	116	116
2	---	---	---	---	---	---	119	117	118	116	115	116
3	---	---	---	---	---	---	120	118	119	117	116	116
4	---	---	---	---	---	---	122	120	121	117	116	116
5	---	---	---	---	---	---	120	114	117	117	116	117
6	---	---	---	---	---	---	121	117	118	117	117	117
7	---	---	---	---	---	---	125	119	121	118	117	117
8	---	---	---	---	---	---	124	119	121	117	117	117
9	---	---	---	---	---	---	122	117	120	118	117	117
10	---	---	---	---	---	---	123	118	120	119	118	118
11	---	---	---	---	---	---	123	120	122	119	118	118
12	---	---	---	---	---	---	123	120	122	119	118	118
13	---	---	---	---	---	---	123	121	122	120	119	120
14	---	---	---	---	---	---	124	122	122	120	119	119
15	---	---	---	---	---	---	124	122	123	120	120	120
16	---	---	---	---	---	---	124	122	123	120	120	120
17	---	---	---	---	---	---	124	120	122	121	120	120
18	---	---	---	---	---	---	122	115	117	121	120	120
19	---	---	---	107	105	106	119	114	115	122	121	121
20	---	---	---	119	110	113	120	115	118	122	121	122
21	---	---	---	108	107	108	120	115	119	122	121	122
22	---	---	---	112	107	109	119	118	118	122	121	122
23	---	---	---	117	106	109	119	118	118	124	122	123
24	---	---	---	115	109	111	118	117	117	129	124	126
25	---	---	---	115	111	112	117	115	116	145	130	140
26	---	---	---	113	111	112	117	115	116	135	123	130
27	---	---	---	119	115	117	116	115	115	135	128	131
28	---	---	---	116	114	115	116	115	116	142	132	138
29	---	---	---	117	116	116	116	115	115	147	140	144
30	---	---	---	116	114	115	116	115	116	147	143	146
31	---	---	---	118	117	118	---	---	---	151	143	147
MONTH	---	---	---	119	105	112	125	114	119	151	115	124

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

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	150	143	146	146	146	146	161	159	160	96	95	95
2	152	144	147	146	146	146	162	158	160	99	95	96
3	148	142	145	147	146	146	163	159	161	98	94	96
4	149	144	146	147	146	146	162	160	162	98	96	97
5	152	145	147	147	146	147	163	162	162	102	96	98
6	152	146	149	148	146	147	163	159	162	99	97	98
7	149	147	148	148	147	148	166	162	164	101	98	100
8	148	145	146	149	147	148	165	159	163	103	101	102
9	151	145	147	150	148	149	165	156	161	104	102	103
10	147	143	145	149	148	148	165	157	161	108	104	106
11	147	144	146	151	148	149	164	155	160	108	107	108
12	148	143	146	152	148	150	164	160	162	108	105	106
13	146	144	145	153	148	150	163	112	151	106	104	105
14	146	142	144	152	150	150	108	89	96	110	106	108
15	149	143	146	153	150	151	90	83	87	109	106	108
16	146	141	144	155	153	153	88	84	85	112	108	110
17	146	145	145	155	154	154	86	82	84	115	111	112
18	147	144	146	156	154	155	87	83	84	119	113	115
19	147	144	146	157	156	157	90	83	86	119	115	117
20	146	143	145	157	156	156	93	84	87	119	117	118
21	146	144	145	157	153	155	91	85	88	121	118	120
22	146	144	145	157	155	156	90	87	88	124	122	123
23	146	145	145	157	155	156	92	87	89	125	122	124
24	146	145	145	160	157	158	104	87	92	131	127	129
25	146	145	145	159	158	159	90	89	90	141	131	135
26	147	145	146	162	159	160	92	89	90	138	131	134
27	146	145	146	161	159	160	99	91	94	139	134	136
28	146	146	146	160	157	159	99	92	95	144	132	136
29	147	146	146	161	159	160	100	94	96	138	132	135
30	146	145	146	161	159	160	101	94	96	143	133	139
31	---	---	---	161	159	160	101	95	97	---	---	---
MONTH	152	141	146	162	146	153	166	82	120	144	94	114
YEAR	180	82	137									

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	167	165	166	175	173	174	---	---	---	---	---	---
2	168	165	167	175	174	174	---	---	---	---	---	---
3	167	167	167	176	174	175	---	---	---	---	---	---
4	170	167	169	177	176	176	---	---	---	---	---	---
5	170	170	170	178	176	177	---	---	---	---	---	---
6	169	168	169	180	178	179	---	---	---	---	---	---
7	169	168	168	173	171	172	---	---	---	---	---	---
8	170	169	169	172	172	172	---	---	---	---	---	---
9	170	167	169	172	171	172	---	---	---	---	---	---
10	167	166	167	173	171	172	---	---	---	---	---	---
11	167	167	167	175	170	172	---	---	---	---	---	---
12	169	167	168	173	172	172	---	---	---	---	---	---
13	169	169	169	172	172	172	---	---	---	---	---	---
14	170	169	169	173	172	173	---	---	---	---	---	---
15	170	169	170	174	174	174	---	---	---	---	---	---
16	171	169	170	175	175	175	---	---	---	---	---	---
17	172	169	170	174	174	174	---	---	---	---	---	---
18	171	169	170	---	---	---	---	---	---	---	---	---
19	170	169	170	---	---	---	---	---	---	---	---	---
20	172	170	171	---	---	---	---	---	---	---	---	---
21	174	169	172	---	---	---	---	---	---	---	---	---
22	173	172	172	---	---	---	---	---	---	---	---	---
23	172	170	170	---	---	---	---	---	---	---	---	---
24	171	170	170	---	---	---	---	---	---	---	---	---
25	172	171	172	---	---	---	---	---	---	---	---	---
26	174	171	172	---	---	---	---	---	---	---	---	---
27	173	171	172	---	---	---	---	---	---	---	---	---
28	177	168	172	---	---	---	---	---	---	---	---	---
29	170	169	170	---	---	---	---	---	---	---	---	---
30	172	170	171	---	---	---	---	---	---	---	---	---
31	173	172	173	---	---	---	---	---	---	---	---	---
MONTH	177	165	170	180	170	174	---	---	---	---	---	---

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

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	117	116	116	123	119	121
2	---	---	---	---	---	---	117	116	117	123	120	121
3	---	---	---	---	---	---	117	116	117	123	120	122
4	---	---	---	---	---	---	118	116	117	123	119	121
5	---	---	---	---	---	---	120	116	118	123	120	122
6	---	---	---	---	---	---	120	119	119	122	121	121
7	---	---	---	---	---	---	121	119	120	124	122	123
8	---	---	---	---	---	---	122	120	121	124	122	123
9	---	---	---	---	---	---	121	118	120	124	122	123
10	---	---	---	---	---	---	121	119	120	123	122	123
11	---	---	---	---	---	---	123	119	120	124	121	122
12	---	---	---	---	---	---	120	120	120	124	123	123
13	---	---	---	---	---	---	121	119	120	124	122	124
14	---	---	---	---	---	---	120	117	119	124	123	123
15	---	---	---	---	---	---	122	117	118	126	123	124
16	---	---	---	---	---	---	118	109	114	131	124	127
17	---	---	---	---	---	---	117	117	117	128	126	127
18	---	---	---	---	---	---	116	114	115	128	125	126
19	---	---	---	106	106	106	115	111	114	130	127	128
20	---	---	---	109	106	107	117	115	116	130	128	129
21	---	---	---	108	107	108	115	115	115	131	126	129
22	---	---	---	108	107	107	116	116	116	131	125	130
23	---	---	---	108	106	107	119	117	118	132	130	131
24	---	---	---	110	109	109	120	119	119	135	127	130
25	---	---	---	110	109	110	119	117	118	141	130	134
26	---	---	---	112	110	111	117	116	116	149	135	140
27	---	---	---	114	111	112	117	116	116	151	136	142
28	---	---	---	116	114	114	118	116	117	150	136	141
29	---	---	---	114	113	114	118	116	116	151	139	146
30	---	---	---	114	113	113	126	117	119	148	137	141
31	---	---	---	115	114	115	---	---	---	145	137	140
MONTH	---	---	---	116	106	110	126	109	118	151	119	128

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	149	136	143	149	147	148	171	162	166	156	150	154
2	149	138	140	148	148	148	171	158	164	154	143	150
3	151	139	142	148	147	148	165	163	164	151	144	149
4	144	140	142	151	148	149	166	159	163	153	147	151
5	153	142	147	155	148	151	165	162	163	154	147	152
6	155	141	146	155	149	152	169	162	165	154	139	150
7	153	141	146	150	149	150	166	159	164	153	151	152
8	149	145	146	154	150	153	166	160	164	154	144	152
9	154	141	148	152	150	151	165	159	162	155	144	152
10	152	145	148	155	149	151	165	162	164	155	146	151
11	149	145	147	153	150	151	167	162	165	152	149	151
12	148	144	146	153	150	152	165	164	164	153	150	151
13	148	142	146	154	150	152	164	153	158	153	149	151
14	148	145	146	152	151	151	150	139	145	154	146	151
15	146	142	145	152	151	152	150	138	142	150	145	147
16	145	143	144	154	153	153	158	127	145	148	146	146
17	145	143	144	154	153	154	152	136	144	148	145	147
18	145	142	144	155	155	155	150	141	145	148	147	148
19	146	144	145	156	155	155	160	142	151	151	148	149
20	148	146	146	156	154	155	158	134	145	149	145	147
21	148	143	146	155	151	153	158	141	152	149	144	147
22	150	146	148	154	152	153	156	145	150	149	148	148
23	150	146	148	154	153	153	157	128	146	149	148	148
24	148	146	147	159	154	156	156	140	151	148	146	147
25	147	145	146	159	157	158	156	142	150	144	141	142
26	147	146	146	157	157	157	156	121	146	146	143	144
27	148	147	147	161	156	158	158	135	149	150	141	147
28	148	147	147	160	156	158	158	131	149	149	146	148
29	149	147	148	155	154	155	155	148	152	148	147	147
30	149	147	148	170	157	164	157	147	155	147	146	147
31	---	---	---	166	160	164	157	149	153	---	---	---
MONTH	155	136	146	170	147	154	171	121	155	156	139	149
YEAR	180	106	146									

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

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	166	164	165	---	---	---	---	---	---	---	---	---
2	166	165	166	---	---	---	---	---	---	---	---	---
3	166	165	166	---	---	---	---	---	---	---	---	---
4	167	165	166	---	---	---	---	---	---	---	---	---
5	168	163	167	---	---	---	---	---	---	---	---	---
6	168	167	167	---	---	---	---	---	---	---	---	---
7	169	168	169	---	---	---	---	---	---	---	---	---
8	173	169	170	---	---	---	---	---	---	---	---	---
9	173	167	169	---	---	---	---	---	---	---	---	---
10	167	167	167	---	---	---	---	---	---	---	---	---
11	168	167	167	---	---	---	---	---	---	---	---	---
12	170	168	169	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	173	163	167	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	127	126	126
19	---	---	---	---	---	---	---	---	---	127	127	127
20	---	---	---	---	---	---	---	---	---	128	128	128
21	---	---	---	---	---	---	---	---	---	128	127	128
22	---	---	---	---	---	---	---	---	---	127	125	126
23	---	---	---	---	---	---	---	---	---	127	126	126
24	---	---	---	---	---	---	---	---	---	128	127	127
25	---	---	---	---	---	---	---	---	---	133	129	130
26	---	---	---	---	---	---	---	---	---	135	133	134
27	---	---	---	---	---	---	---	---	---	140	136	138
28	---	---	---	---	---	---	---	---	---	137	137	137
29	---	---	---	---	---	---	---	---	---	138	137	138
30	---	---	---	---	---	---	---	---	---	138	137	138
31	---	---	---	---	---	---	---	---	---	138	138	138
MONTH	---	---	---	---	---	---	---	---	---	140	125	132

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

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	138	137	138	148	148	148	155	154	155	158	157	157
2	139	138	139	148	148	148	155	154	154	157	155	156
3	140	139	139	149	148	148	154	154	154	157	155	156
4	141	140	141	149	148	149	157	156	156	155	154	154
5	141	140	141	149	149	149	160	156	158	157	155	156
6	142	140	141	150	149	149	160	159	159	158	156	157
7	141	140	140	151	150	150	159	158	158	158	157	157
8	141	140	140	152	150	151	158	157	158	158	158	158
9	141	140	140	152	150	151	158	157	157	158	157	158
10	142	140	141	151	150	150	157	156	156	158	157	158
11	142	141	141	151	149	150	156	156	156	156	154	155
12	142	141	142	151	150	151	157	156	156	156	154	155
13	143	141	142	151	151	151	157	156	156	156	154	155
14	143	142	142	152	152	152	162	158	160	155	153	154
15	143	142	143	153	152	152	162	160	161	151	147	149
16	144	143	143	154	153	154	163	162	163	151	147	149
17	144	143	144	154	154	154	165	163	164	151	149	150
18	145	144	144	155	154	154	163	161	162	152	149	150
19	146	144	145	155	154	154	162	160	161	151	150	151
20	145	145	145	154	154	154	162	161	162	150	146	148
21	146	145	145	154	152	153	160	159	160	150	147	149
22	145	144	145	153	151	152	160	159	159	151	150	150
23	147	145	146	154	152	153	160	158	159	151	150	150
24	147	147	147	159	154	157	159	158	159	150	146	147
25	147	147	147	160	156	158	159	159	159	145	142	143
26	148	147	147	156	156	156	160	159	159	147	144	145
27	148	146	147	157	156	156	160	159	159	149	147	149
28	148	148	148	156	156	156	160	159	159	149	148	149
29	148	148	148	156	155	156	160	158	159	148	148	148
30	148	148	148	155	154	154	160	158	159	148	147	147
31	---	---	---	155	155	155	159	157	158	---	---	---
MONTH	148	137	143	160	148	152	165	154	159	158	142	152
YEAR	173	125	151									

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.9	6.9	7.2	7.1	---	---	---	---	---	---	---	---
2	6.9	6.9	7.2	7.1	---	---	---	---	---	---	---	---
3	6.9	6.9	7.1	7.1	---	---	---	---	---	---	---	---
4	6.9	6.9	7.1	7.0	---	---	---	---	---	---	---	---
5	6.9	6.9	7.2	7.0	---	---	---	---	---	---	---	---
6	6.9	6.9	7.2	7.1	---	---	---	---	---	---	---	---
7	6.9	6.8	7.2	7.1	---	---	---	---	---	---	---	---
8	6.9	6.9	7.2	7.2	---	---	---	---	---	---	---	---
9	6.9	6.9	7.2	7.2	---	---	---	---	---	---	---	---
10	6.9	6.8	7.2	7.1	---	---	---	---	---	---	---	---
11	7.0	6.9	7.3	7.2	---	---	---	---	---	---	---	---
12	7.0	6.9	7.3	7.2	---	---	---	---	---	---	---	---
13	7.0	7.0	7.3	7.3	---	---	---	---	---	---	---	---
14	7.0	6.9	7.3	7.3	---	---	---	---	---	---	---	---
15	7.0	7.0	7.3	7.3	---	---	---	---	---	---	---	---
16	7.0	7.0	7.3	7.3	---	---	---	---	---	---	---	---
17	7.0	6.9	7.3	7.3	---	---	---	---	---	---	---	---
18	6.9	6.9	---	---	---	---	---	---	---	---	---	---
19	6.9	6.8	---	---	---	---	---	---	---	---	7.1	7.1
20	6.8	6.8	---	---	---	---	---	---	---	---	7.1	7.0
21	6.8	6.8	---	---	---	---	---	---	---	---	7.1	7.0
22	6.8	6.8	---	---	---	---	---	---	---	---	7.1	7.0
23	6.8	6.8	---	---	---	---	---	---	---	---	7.1	7.0
24	6.8	6.8	---	---	---	---	---	---	---	---	7.1	7.1
25	6.8	6.8	---	---	---	---	---	---	---	---	7.1	7.1
26	6.8	6.8	---	---	---	---	---	---	---	---	7.2	7.1
27	6.8	6.8	---	---	---	---	---	---	---	---	7.2	7.2
28	6.8	6.8	---	---	---	---	---	---	---	---	7.3	7.2
29	6.8	6.8	---	---	---	---	---	---	---	---	7.2	7.2
30	6.8	6.8	---	---	---	---	---	---	---	---	7.2	7.2
31	7.1	6.8	---	---	---	---	---	---	---	---	7.2	7.1
MONTH	7.1	6.8	7.3	7.0	---	---	---	---	---	---	7.3	7.0

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

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.1	7.1	6.6	6.6	6.7	6.6	6.8	6.8	7.0	7.0	6.8	6.8
2	7.1	7.1	6.6	6.6	6.6	6.6	6.8	6.8	7.0	7.0	6.9	6.8
3	7.1	7.1	6.6	6.5	6.6	6.6	6.8	6.8	7.0	7.0	6.9	6.8
4	7.1	7.1	6.6	6.5	6.6	6.6	6.8	6.8	7.0	7.0	6.8	6.8
5	7.2	7.1	6.6	6.5	6.6	6.6	6.9	6.8	7.0	7.0	6.8	6.8
6	7.2	7.1	6.5	6.5	6.7	6.6	6.9	6.9	7.0	7.0	6.9	6.8
7	7.2	7.1	6.5	6.5	6.7	6.6	6.9	6.9	7.0	7.0	7.0	6.9
8	7.2	7.1	6.5	6.5	6.7	6.7	6.9	6.9	7.0	7.0	6.9	6.9
9	7.2	7.1	7.0	6.6	6.7	6.7	6.9	6.9	7.0	7.0	6.9	6.9
10	7.2	7.0	6.9	6.5	6.7	6.7	6.9	6.9	6.9	6.9	6.9	6.9
11	7.0	7.0	6.5	6.5	6.7	6.7	6.9	6.8	7.0	6.9	6.9	6.9
12	7.0	6.9	6.5	6.5	6.7	6.7	6.9	6.9	7.0	6.9	6.9	6.9
13	7.0	6.9	6.5	6.5	6.7	6.7	6.9	6.8	7.0	7.0	6.9	6.9
14	6.9	6.9	6.5	6.5	6.7	6.7	6.9	6.9	6.9	6.7	6.9	6.8
15	6.9	6.9	6.5	6.5	6.7	6.7	6.9	6.9	6.8	6.7	6.8	6.7
16	7.0	6.9	6.5	6.5	6.7	6.7	6.9	6.9	6.8	6.7	6.8	6.7
17	7.0	6.9	6.5	6.5	6.7	6.7	6.9	6.9	6.7	6.7	6.8	6.8
18	7.0	6.9	6.5	6.5	6.7	6.7	6.9	6.9	6.7	6.7	6.8	6.8
19	6.9	6.9	6.5	6.5	6.7	6.6	6.9	6.8	6.7	6.7	6.8	6.8
20	7.0	6.8	6.5	6.5	6.6	6.6	6.9	6.8	6.7	6.7	6.9	6.8
21	6.8	6.7	6.5	6.5	6.6	6.6	6.9	6.9	6.8	6.7	6.9	6.9
22	6.7	6.7	6.5	6.5	6.6	6.6	6.9	6.9	6.8	6.7	6.9	6.8
23	6.7	6.7	6.6	6.5	6.7	6.6	7.0	6.9	6.7	6.7	6.8	6.8
24	6.7	6.7	6.8	6.6	6.7	6.6	6.9	6.9	6.7	6.7	6.8	6.8
25	6.7	6.7	6.6	6.6	6.7	6.6	6.9	6.9	6.7	6.7	6.8	6.8
26	6.7	6.7	6.6	6.5	6.6	6.6	6.9	6.9	6.8	6.8	6.8	6.8
27	6.7	6.7	6.6	6.6	6.7	6.6	7.0	6.9	6.8	6.8	6.8	6.8
28	6.7	6.7	6.7	6.6	6.7	6.6	7.0	6.9	6.8	6.8	6.8	6.8
29	6.7	6.6	6.7	6.6	6.7	6.7	7.0	7.0	6.8	6.8	6.8	6.8
30	6.6	6.6	6.7	6.7	6.8	6.7	7.0	6.9	6.9	6.8	6.8	6.8
31	---	---	6.7	6.7	---	---	7.0	6.9	6.9	6.8	---	---
MONTH	7.2	6.6	7.0	6.5	6.8	6.6	7.0	6.8	7.0	6.7	7.0	6.7
YEAR	7.3	6.5										

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.8	6.7	7.2	7.1	---	---	---	---	---	---	---	---
2	6.8	6.7	7.2	7.1	---	---	---	---	---	---	---	---
3	6.8	6.8	7.2	7.2	---	---	---	---	---	---	---	---
4	6.8	6.8	7.1	7.1	---	---	---	---	---	---	---	---
5	6.8	6.7	7.2	7.1	---	---	---	---	---	---	---	---
6	6.8	6.7	7.2	7.2	---	---	---	---	---	---	---	---
7	6.7	6.7	7.2	7.2	---	---	---	---	---	---	---	---
8	6.8	6.8	7.2	7.2	---	---	---	---	---	---	---	---
9	6.8	6.8	7.3	7.2	---	---	---	---	---	---	---	---
10	6.8	6.8	7.3	7.2	---	---	---	---	---	---	---	---
11	7.0	7.0	7.3	7.2	---	---	---	---	---	---	---	---
12	7.1	7.0	7.3	7.2	---	---	---	---	---	---	---	---
13	7.1	7.0	7.3	7.3	---	---	---	---	---	---	---	---
14	7.1	7.0	7.3	7.3	---	---	---	---	---	---	---	---
15	7.0	7.0	7.3	7.3	---	---	---	---	---	---	---	---
16	7.0	7.0	7.3	7.3	---	---	---	---	---	---	---	---
17	7.0	7.0	7.3	7.3	---	---	---	---	---	---	---	---
18	7.0	7.0	---	---	---	---	---	---	---	---	---	---
19	7.0	7.0	---	---	---	---	---	---	---	---	7.1	7.1
20	7.0	6.9	---	---	---	---	---	---	---	---	7.1	7.1
21	7.0	6.9	---	---	---	---	---	---	---	---	7.1	7.1
22	7.0	6.9	---	---	---	---	---	---	---	---	7.1	7.0
23	7.0	6.9	---	---	---	---	---	---	---	---	7.2	7.1
24	7.0	6.9	---	---	---	---	---	---	---	---	7.2	7.1
25	7.0	6.9	---	---	---	---	---	---	---	---	7.2	7.1
26	6.9	6.9	---	---	---	---	---	---	---	---	7.2	7.1
27	7.0	6.9	---	---	---	---	---	---	---	---	7.2	7.2
28	7.0	6.9	---	---	---	---	---	---	---	---	7.3	7.2
29	7.0	6.9	---	---	---	---	---	---	---	---	7.3	7.2
30	7.1	6.9	---	---	---	---	---	---	---	---	7.3	7.2
31	7.1	7.0	---	---	---	---	---	---	---	---	7.2	7.2
MONTH	7.1	6.7	7.3	7.1	---	---	---	---	---	---	7.3	7.0

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

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.3	7.2	6.9	6.7	6.7	6.7	6.8	6.7	6.9	6.8	6.6	6.5
2	7.3	7.2	6.8	6.6	6.8	6.7	6.7	6.7	6.9	6.8	6.6	6.5
3	7.2	7.1	6.7	6.7	6.7	6.7	6.7	6.7	6.9	6.9	6.6	6.4
4	7.2	7.1	6.8	6.6	6.7	6.7	6.8	6.7	6.9	6.9	6.5	6.4
5	7.2	7.1	6.7	6.6	6.8	6.7	6.7	6.7	7.0	6.9	6.5	6.4
6	7.3	7.2	6.7	6.6	6.8	6.7	6.8	6.7	7.0	6.8	6.5	6.5
7	7.3	7.2	6.7	6.6	6.8	6.7	6.7	6.7	6.9	6.9	6.5	6.5
8	7.2	7.2	6.7	6.6	6.8	6.7	6.8	6.7	7.0	6.9	6.6	6.5
9	7.2	7.2	7.0	6.7	6.8	6.7	6.8	6.7	7.0	6.9	6.6	6.5
10	7.3	7.0	6.9	6.6	6.8	6.7	6.8	6.7	6.9	6.8	6.5	6.5
11	7.1	7.0	6.8	6.6	6.7	6.7	6.8	6.7	6.9	6.8	6.6	6.6
12	7.1	7.0	6.7	6.6	6.7	6.7	6.8	6.7	6.9	6.9	6.6	6.6
13	7.1	7.0	6.8	6.6	6.7	6.7	6.8	6.7	6.9	6.8	6.6	6.6
14	7.1	7.0	6.7	6.6	6.8	6.7	6.8	6.8	6.9	6.8	6.6	6.6
15	7.0	7.0	6.7	6.6	6.8	6.7	6.8	6.8	6.8	6.8	6.6	6.5
16	7.0	6.9	6.7	6.6	6.8	6.7	6.8	6.8	6.8	6.8	6.6	6.5
17	7.1	7.0	6.7	6.6	6.7	6.7	6.8	6.8	6.8	6.7	6.7	6.6
18	7.0	7.0	6.6	6.5	6.8	6.7	6.8	6.8	6.8	6.7	6.7	6.6
19	7.1	7.0	6.7	6.5	6.7	6.7	6.9	6.8	6.8	6.7	6.8	6.7
20	7.2	6.9	6.7	6.5	6.7	6.6	6.8	6.8	6.8	6.7	6.8	6.6
21	7.1	6.8	6.7	6.5	6.7	6.6	6.8	6.8	6.7	6.7	6.8	6.7
22	6.9	6.8	6.6	6.5	6.7	6.6	6.8	6.8	6.7	6.7	6.8	6.7
23	6.9	6.8	6.9	6.5	6.7	6.6	6.9	6.8	6.7	6.6	6.8	6.8
24	6.9	6.8	7.0	6.7	6.7	6.6	6.9	6.8	6.6	6.6	6.8	6.6
25	6.8	6.8	6.8	6.7	6.8	6.7	6.9	6.8	6.6	6.6	6.8	6.8
26	6.9	6.8	6.8	6.7	6.8	6.7	6.8	6.8	6.6	6.6	6.8	6.8
27	6.8	6.8	6.8	6.8	6.8	6.7	6.9	6.8	6.7	6.6	6.8	6.8
28	6.9	6.8	6.8	6.8	6.8	6.7	6.8	6.8	6.7	6.6	6.9	6.8
29	6.8	6.7	6.8	6.8	6.8	6.7	6.9	6.8	6.7	6.6	6.9	6.8
30	6.9	6.6	6.8	6.8	6.7	6.7	6.9	6.8	6.7	6.6	6.9	6.8
31	---	---	6.8	6.7	---	---	6.9	6.8	6.7	6.5	---	---
MONTH	7.3	6.6	7.0	6.5	6.8	6.6	6.9	6.7	7.0	6.5	6.9	6.4
YEAR	7.3	6.4										

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.0	7.0	7.2	7.1	---	---	---	---	---	---	---	---
2	7.1	7.0	7.2	7.2	---	---	---	---	---	---	---	---
3	7.1	7.1	7.2	7.2	---	---	---	---	---	---	---	---
4	7.1	7.1	7.2	7.1	---	---	---	---	---	---	---	---
5	7.1	7.0	7.2	7.1	---	---	---	---	---	---	---	---
6	6.9	6.9	7.2	7.2	---	---	---	---	---	---	---	---
7	6.9	6.9	7.2	7.2	---	---	---	---	---	---	---	---
8	6.9	6.9	7.2	7.2	---	---	---	---	---	---	---	---
9	6.9	6.9	7.2	7.2	---	---	---	---	---	---	---	---
10	7.0	6.9	7.2	7.2	---	---	---	---	---	---	---	---
11	7.1	7.0	7.3	7.2	---	---	---	---	---	---	---	---
12	7.1	7.0	7.3	7.2	---	---	---	---	---	---	---	---
13	7.1	7.1	7.3	7.3	---	---	---	---	---	---	---	---
14	7.1	7.1	7.3	7.3	---	---	---	---	---	---	---	---
15	7.1	7.1	7.3	7.3	---	---	---	---	---	---	---	---
16	7.1	7.1	7.3	7.3	---	---	---	---	---	---	---	---
17	7.2	7.1	7.3	7.3	---	---	---	---	---	---	---	---
18	7.1	7.1	---	---	---	---	---	---	---	---	---	---
19	7.2	7.2	---	---	---	---	---	---	---	---	7.1	7.1
20	7.2	7.2	---	---	---	---	---	---	---	---	7.1	7.1
21	7.2	7.1	---	---	---	---	---	---	---	---	7.1	7.1
22	7.1	7.0	---	---	---	---	---	---	---	---	7.1	7.1
23	7.2	7.1	---	---	---	---	---	---	---	---	7.2	7.1
24	7.3	7.2	---	---	---	---	---	---	---	---	7.2	7.1
25	7.2	7.1	---	---	---	---	---	---	---	---	7.2	7.1
26	7.2	7.1	---	---	---	---	---	---	---	---	7.2	7.2
27	7.2	7.1	---	---	---	---	---	---	---	---	7.3	7.2
28	7.2	7.1	---	---	---	---	---	---	---	---	7.3	7.2
29	7.2	7.2	---	---	---	---	---	---	---	---	7.3	7.3
30	7.2	7.1	---	---	---	---	---	---	---	---	7.3	7.3
31	7.1	7.1	---	---	---	---	---	---	---	---	7.3	7.3
MONTH	7.3	6.9	7.3	7.1	---	---	---	---	---	---	7.3	7.1

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

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.3	7.2	7.2	7.1	7.2	7.1	7.1	7.0	7.1	7.0	7.5	7.2
2	7.3	7.2	7.2	7.1	7.2	7.1	7.1	7.0	7.2	7.1	7.4	7.2
3	7.3	7.3	7.1	7.1	7.1	7.0	7.1	7.0	7.2	7.1	7.4	7.3
4	7.3	7.2	7.1	7.0	7.1	7.1	7.1	7.0	7.2	6.9	7.5	7.4
5	7.3	7.3	7.1	7.0	7.1	6.9	7.1	7.0	7.0	6.9	7.5	7.4
6	7.3	7.3	7.1	7.0	7.2	6.9	7.2	7.1	7.3	6.9	7.5	7.3
7	7.3	7.3	7.1	7.0	7.1	7.0	7.2	7.1	7.3	7.2	7.5	7.4
8	7.4	7.3	7.0	7.0	7.3	7.1	7.2	7.1	7.3	7.2	7.5	7.4
9	7.3	7.3	7.0	6.9	7.3	7.2	7.1	7.1	7.3	7.1	7.5	7.4
10	7.3	7.2	7.1	7.0	7.2	7.2	7.1	7.1	7.3	7.2	7.5	7.4
11	7.3	7.2	7.1	7.0	7.2	7.2	7.1	7.1	7.2	7.1	7.4	7.4
12	7.3	7.2	7.0	7.0	7.2	7.2	7.1	7.1	7.2	7.1	7.4	7.3
13	7.3	7.2	7.0	6.9	7.2	7.2	7.2	7.1	7.2	7.1	7.3	7.3
14	7.3	7.2	7.0	7.0	7.2	7.2	7.2	7.1	7.1	6.9	7.3	6.9
15	7.3	7.1	7.0	7.0	7.3	7.2	7.1	7.0	7.1	6.9	7.0	6.9
16	7.3	7.1	7.0	7.0	7.3	7.3	7.1	7.0	7.2	6.8	7.0	6.9
17	7.3	7.1	7.1	7.0	7.3	7.3	7.0	6.9	7.1	6.8	7.0	6.9
18	7.3	7.1	7.0	7.0	7.3	7.2	7.0	6.9	7.0	6.9	7.0	6.9
19	7.2	7.1	7.0	7.0	7.2	7.2	7.0	7.0	7.4	6.9	7.0	6.9
20	7.3	7.1	7.2	7.0	7.1	7.1	7.1	7.0	7.3	6.9	7.0	6.9
21	7.3	7.2	7.1	7.1	7.1	7.0	7.1	7.0	7.3	7.1	7.1	6.9
22	7.3	7.1	7.1	7.0	7.2	7.2	7.1	7.0	7.3	7.1	7.0	7.0
23	7.2	7.1	7.2	7.1	7.1	7.1	7.0	6.9	7.3	6.9	7.0	7.0
24	7.2	7.0	7.2	6.9	7.1	7.1	7.0	7.0	7.3	7.0	7.0	6.9
25	7.2	7.1	7.1	7.0	7.1	7.1	7.1	7.0	7.3	7.2	6.9	6.8
26	7.2	7.1	7.2	6.9	7.1	7.1	7.1	7.1	7.5	7.0	6.9	6.8
27	7.2	7.1	7.1	7.0	7.2	7.2	7.2	7.1	7.5	7.2	7.0	6.8
28	7.2	7.1	7.1	7.0	7.2	7.1	7.2	7.2	7.5	7.1	7.0	6.9
29	7.2	7.1	7.1	7.0	7.2	7.1	7.2	7.2	7.6	7.3	6.9	6.9
30	7.2	7.1	7.1	7.0	7.1	7.0	7.2	7.0	7.5	7.4	7.0	7.0
31	---	---	7.2	7.1	---	---	7.2	7.0	7.4	7.4	---	---
MONTH	7.4	7.0	7.2	6.9	7.3	6.9	7.2	6.9	7.6	6.8	7.5	6.8
YEAR	7.6	6.8										

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.2	7.2	---	---	---	---	---	---	---	---	---	---
2	7.2	7.1	---	---	---	---	---	---	---	---	---	---
3	7.2	7.1	---	---	---	---	---	---	---	---	---	---
4	7.2	7.2	---	---	---	---	---	---	---	---	---	---
5	7.2	7.2	---	---	---	---	---	---	---	---	---	---
6	7.2	7.1	---	---	---	---	---	---	---	---	---	---
7	7.0	6.9	---	---	---	---	---	---	---	---	---	---
8	7.0	6.9	---	---	---	---	---	---	---	---	---	---
9	7.0	6.9	---	---	---	---	---	---	---	---	---	---
10	7.0	6.9	---	---	---	---	---	---	---	---	---	---
11	7.1	7.0	---	---	---	---	---	---	---	---	---	---
12	7.1	7.1	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	7.2	6.9	---	---	---	---	---	---	---	---	---	---

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

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	7.3	7.2	7.1	7.1	7.3	7.2	7.7	7.5
2	---	---	---	---	7.3	7.2	7.2	7.1	7.3	7.2	7.7	7.6
3	---	---	---	---	7.3	7.2	7.2	7.1	7.3	7.3	7.6	7.6
4	---	---	---	---	7.2	7.2	7.2	7.2	7.3	7.1	7.7	7.6
5	---	---	---	---	7.2	7.2	7.2	7.1	7.1	7.0	7.7	7.6
6	---	---	---	---	7.3	7.2	7.3	7.2	7.4	7.0	7.7	7.6
7	---	---	---	---	7.3	7.2	7.3	7.3	7.4	7.4	7.7	7.7
8	---	---	---	---	7.4	7.3	7.3	7.2	7.5	7.4	7.7	7.7
9	---	---	---	---	7.3	7.3	7.2	7.2	7.5	7.4	7.7	7.7
10	---	---	---	---	7.3	7.2	7.2	7.2	7.5	7.4	7.7	7.7
11	---	---	---	---	7.3	7.2	7.3	7.2	7.5	7.4	7.7	7.6
12	---	---	---	---	7.4	7.3	7.2	7.2	7.6	7.4	7.6	7.5
13	---	---	---	---	7.4	7.3	7.3	7.3	7.6	7.5	7.5	7.4
14	---	---	---	---	7.3	7.3	7.3	7.2	7.6	7.4	7.5	7.2
15	---	---	---	---	7.3	7.3	7.2	7.2	7.5	7.5	7.2	7.0
16	---	---	---	---	7.3	7.2	7.3	7.2	7.6	7.5	7.2	7.0
17	---	---	---	---	7.3	7.3	7.2	7.1	7.6	7.5	7.1	7.0
18	---	---	7.1	7.0	7.3	7.2	7.1	7.1	7.7	7.5	7.2	7.0
19	---	---	7.1	7.0	7.2	7.2	7.2	7.1	7.6	7.5	7.1	7.1
20	---	---	7.2	7.0	7.2	7.2	7.2	7.1	7.6	7.4	7.1	7.0
21	---	---	7.2	7.1	7.2	7.2	7.3	7.2	7.5	7.4	7.2	7.0
22	---	---	7.1	7.1	7.2	7.2	7.2	7.1	7.5	7.4	7.2	7.2
23	---	---	7.2	7.1	7.2	7.2	7.2	7.1	7.5	7.4	7.2	7.1
24	---	---	7.2	7.2	7.2	7.2	7.1	7.0	7.5	7.4	7.2	7.1
25	---	---	7.2	7.1	7.2	7.2	7.2	7.1	7.6	7.5	7.0	6.8
26	---	---	7.2	7.1	7.2	7.2	7.2	7.2	7.7	7.6	7.0	6.9
27	---	---	7.2	7.2	7.3	7.2	7.3	7.2	7.7	7.6	7.1	6.9
28	---	---	7.2	7.2	7.3	7.2	7.3	7.2	7.7	7.6	7.1	7.0
29	---	---	7.2	7.2	7.2	7.2	7.3	7.2	7.7	7.6	7.1	7.0
30	---	---	7.3	7.2	7.2	7.1	7.3	7.1	7.7	7.7	7.1	7.0
31	---	---	7.2	7.2	---	---	7.3	7.2	7.7	7.6	---	---
MONTH	---	---	7.3	7.0	7.4	7.1	7.3	7.0	7.7	7.0	7.7	6.8
YEAR	7.7	6.8										

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	18.3	18.2	18.3	18.4	18.3	18.4	---	---	---	---	---	---
2	18.3	17.8	18.0	18.3	18.2	18.3	---	---	---	---	---	---
3	17.9	17.8	17.8	18.2	18.0	18.1	---	---	---	---	---	---
4	17.9	17.8	17.9	18.0	17.8	17.9	---	---	---	---	---	---
5	17.9	17.8	17.9	17.8	17.4	17.6	---	---	---	---	---	---
6	17.8	17.7	17.8	18.7	16.8	17.3	---	---	---	---	---	---
7	17.8	17.5	17.6	18.6	18.5	18.6	---	---	---	---	---	---
8	17.5	16.2	17.3	18.6	18.6	18.6	---	---	---	---	---	---
9	17.9	16.8	17.5	18.6	18.6	18.6	---	---	---	---	---	---
10	18.4	17.9	18.0	18.7	18.6	18.6	---	---	---	---	---	---
11	18.4	18.2	18.3	18.5	18.1	18.3	---	---	---	---	---	---
12	18.2	18.1	18.2	18.1	17.9	18.0	---	---	---	---	---	---
13	18.0	17.8	17.9	18.0	17.7	17.9	---	---	---	---	---	---
14	17.8	17.8	17.8	17.7	17.5	17.6	---	---	---	---	---	---
15	17.8	17.8	17.8	17.4	17.2	17.3	---	---	---	---	---	---
16	17.8	17.7	17.8	17.1	16.9	17.0	---	---	---	---	---	---
17	17.7	17.7	17.7	16.9	16.8	16.9	---	---	---	---	---	---
18	17.8	17.7	17.7	---	---	---	---	---	---	---	---	---
19	17.9	17.7	17.8	---	---	---	---	---	---	---	---	---
20	17.8	17.5	17.7	---	---	---	---	---	---	---	---	---
21	18.1	17.0	17.5	---	---	---	---	---	---	---	---	---
22	18.2	18.1	18.2	---	---	---	---	---	---	---	---	---
23	18.2	18.1	18.1	---	---	---	---	---	---	---	---	---
24	18.1	18.1	18.1	---	---	---	---	---	---	---	---	---
25	18.1	18.0	18.0	---	---	---	---	---	---	---	---	---
26	18.2	17.9	18.1	---	---	---	---	---	---	---	---	---
27	18.2	18.0	18.1	---	---	---	---	---	---	---	---	---
28	18.9	17.0	17.9	---	---	---	---	---	---	---	---	---
29	18.7	18.6	18.6	---	---	---	---	---	---	---	---	---
30	18.6	18.6	18.6	---	---	---	---	---	---	---	---	---
31	18.6	18.5	18.6	---	---	---	---	---	---	---	---	---
MONTH	18.9	16.2	18.0	18.7	16.8	17.9	---	---	---	---	---	---

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	11.4	11.4	11.4	14.5	14.4	14.5
2	---	---	---	---	---	---	11.7	11.6	11.6	14.6	14.5	14.6
3	---	---	---	---	---	---	11.9	11.0	11.5	14.6	14.5	14.6
4	---	---	---	---	---	---	11.4	11.1	11.2	14.7	14.6	14.6
5	---	---	---	---	---	---	11.6	11.5	11.5	14.7	14.6	14.7
6	---	---	---	---	---	---	11.8	11.4	11.7	14.7	14.6	14.7
7	---	---	---	---	---	---	12.1	11.8	11.9	14.8	14.7	14.7
8	---	---	---	---	---	---	12.3	12.0	12.1	14.8	14.7	14.8
9	---	---	---	---	---	---	12.7	12.1	12.3	14.8	14.8	14.8
10	---	---	---	---	---	---	12.9	12.4	12.6	14.8	14.8	14.8
11	---	---	---	---	---	---	12.5	12.4	12.5	14.9	14.8	14.8
12	---	---	---	---	---	---	12.7	12.5	12.6	14.9	14.4	14.6
13	---	---	---	---	---	---	12.8	12.7	12.7	14.8	14.3	14.5
14	---	---	---	---	---	---	12.8	12.7	12.7	14.9	14.7	14.8
15	---	---	---	---	---	---	12.8	12.7	12.8	14.8	14.7	14.8
16	---	---	---	---	---	---	13.5	12.8	13.1	14.9	14.8	14.9
17	---	---	---	---	---	---	13.9	13.3	13.5	14.9	14.8	14.9
18	---	---	---	---	---	---	14.0	13.7	13.8	14.8	14.7	14.7
19	---	---	---	11.4	11.3	11.3	14.3	13.9	14.1	15.6	15.4	15.5
20	---	---	---	11.3	11.2	11.3	14.6	13.8	14.2	15.6	15.5	15.6
21	---	---	---	11.4	11.3	11.4	13.9	13.8	13.8	15.7	15.6	15.6
22	---	---	---	11.4	11.3	11.4	13.9	13.8	13.8	15.7	15.7	15.7
23	---	---	---	12.1	11.3	11.5	13.9	13.8	13.9	16.5	15.7	16.1
24	---	---	---	11.8	11.3	11.5	14.1	13.9	14.0	18.1	16.7	17.0
25	---	---	---	11.6	11.4	11.5	14.1	14.0	14.1	17.6	16.9	17.3
26	---	---	---	12.0	11.6	11.7	14.2	14.1	14.2	16.9	16.7	16.8
27	---	---	---	11.7	11.5	11.6	14.2	14.2	14.2	17.2	16.9	17.0
28	---	---	---	12.2	11.4	11.7	14.3	14.2	14.2	17.3	17.1	17.2
29	---	---	---	11.7	11.4	11.5	14.4	14.3	14.3	17.6	17.4	17.5
30	---	---	---	11.8	11.5	11.6	14.5	14.3	14.4	17.6	17.5	17.6
31	---	---	---	11.5	11.4	11.5	---	---	---	17.6	17.5	17.6
MONTH	---	---	---	12.2	11.2	11.5	14.6	11.0	13.0	18.1	14.3	15.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.6	17.5	17.6	20.1	20.0	20.0	19.8	19.5	19.6	21.1	21.0	21.0
2	17.6	17.6	17.6	20.2	20.1	20.1	19.7	19.6	19.6	21.1	21.0	21.0
3	17.7	16.8	17.3	20.3	20.1	20.2	19.7	19.6	19.6	21.1	21.0	21.1
4	17.8	17.7	17.7	20.2	20.2	20.2	19.8	19.7	19.8	21.1	21.1	21.1
5	18.0	17.7	17.8	20.2	20.2	20.2	20.2	19.8	20.0	21.2	21.0	21.1
6	18.2	18.0	18.1	20.4	20.2	20.3	20.1	19.8	19.9	21.2	21.1	21.2
7	18.5	18.2	18.3	20.5	20.4	20.4	20.0	19.9	20.0	21.1	21.1	21.1
8	18.6	18.4	18.6	20.6	20.5	20.5	20.0	19.9	20.0	21.2	21.1	21.2
9	18.7	18.6	18.6	20.7	20.6	20.6	20.0	20.0	20.0	21.2	21.1	21.2
10	18.8	18.6	18.7	20.9	20.7	20.8	20.1	20.0	20.1	21.2	21.1	21.2
11	18.8	18.8	18.8	20.9	20.8	20.8	20.2	20.1	20.2	21.3	21.2	21.2
12	18.9	18.8	18.9	21.0	20.9	20.9	20.3	20.2	20.2	21.2	21.1	21.2
13	19.4	18.9	19.1	21.0	21.0	21.0	20.4	20.2	20.3	21.2	21.1	21.2
14	19.2	19.0	19.1	21.1	21.0	21.0	21.5	20.5	21.1	21.3	21.2	21.2
15	19.5	19.1	19.2	21.2	21.1	21.1	21.5	21.3	21.4	21.2	21.2	21.2
16	19.3	19.2	19.3	21.2	21.1	21.2	21.3	21.1	21.2	21.3	21.2	21.2
17	19.4	19.3	19.4	21.6	21.2	21.3	21.1	21.1	21.1	21.2	21.1	21.2
18	19.5	19.4	19.5	21.1	21.0	21.0	21.1	21.0	21.0	21.2	21.2	21.2
19	19.5	19.4	19.4	21.5	21.0	21.2	21.1	21.0	21.0	21.2	21.2	21.2
20	19.5	19.4	19.5	21.6	21.3	21.5	21.1	21.0	21.0	21.3	21.2	21.2
21	19.5	19.5	19.5	21.0	20.6	20.8	21.0	20.8	20.9	21.4	21.2	21.2
22	19.5	19.5	19.5	20.5	20.1	20.2	21.0	20.8	20.9	21.3	21.2	21.3
23	19.6	19.5	19.6	20.0	19.7	19.8	21.0	20.9	21.0	21.4	21.2	21.3
24	19.7	19.6	19.6	19.7	19.4	19.6	21.0	20.9	20.9	21.4	21.3	21.3
25	19.7	19.6	19.7	19.9	19.5	19.7	21.0	20.9	21.0	21.4	21.3	21.3
26	19.8	19.7	19.7	19.8	19.5	19.6	21.0	20.9	20.9	21.3	21.1	21.2
27	19.9	19.8	19.8	19.5	19.5	19.5	21.0	21.0	21.0	21.1	21.0	21.0
28	20.0	19.8	19.9	19.5	19.5	19.5	21.0	20.9	21.0	21.0	20.8	20.9
29	20.0	19.9	19.9	19.6	19.4	19.5	21.1	21.0	21.0	20.8	20.8	20.8
30	20.0	19.9	20.0	19.6	19.5	19.6	21.1	21.0	21.0	20.9	20.8	20.8
31	---	---	---	19.7	19.6	19.6	21.1	21.0	21.0	---	---	---
MONTH	20.0	16.8	19.0	21.6	19.4	20.4	21.5	19.5	20.6	21.4	20.8	21.1
YEAR	21.6	11.0	17.9									

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.0	20.8	20.9	18.8	18.6	18.7	---	---	---	---	---	---
2	20.9	20.6	20.8	18.6	18.5	18.6	---	---	---	---	---	---
3	20.7	20.5	20.6	18.5	18.3	18.4	---	---	---	---	---	---
4	20.7	20.5	20.6	18.3	18.1	18.2	---	---	---	---	---	---
5	20.6	20.3	20.5	18.0	17.8	17.8	---	---	---	---	---	---
6	20.5	20.2	20.4	19.0	17.0	17.5	---	---	---	---	---	---
7	20.4	20.0	20.3	19.0	18.9	18.9	---	---	---	---	---	---
8	20.1	19.5	19.7	19.0	18.9	18.9	---	---	---	---	---	---
9	19.7	19.1	19.5	19.2	18.9	19.0	---	---	---	---	---	---
10	19.4	19.1	19.2	19.2	18.9	19.0	---	---	---	---	---	---
11	18.9	18.6	18.8	18.8	18.4	18.6	---	---	---	---	---	---
12	18.6	18.5	18.5	18.4	18.3	18.4	---	---	---	---	---	---
13	18.5	18.4	18.4	18.3	18.1	18.2	---	---	---	---	---	---
14	18.3	18.2	18.2	18.0	17.8	17.9	---	---	---	---	---	---
15	18.2	18.1	18.2	17.8	17.5	17.6	---	---	---	---	---	---
16	18.2	18.1	18.1	17.4	17.2	17.3	---	---	---	---	---	---
17	18.1	18.0	18.0	17.2	17.2	17.2	---	---	---	---	---	---
18	18.1	18.0	18.1	---	---	---	---	---	---	---	---	---
19	18.2	18.0	18.1	---	---	---	---	---	---	---	---	---
20	18.2	18.0	18.1	---	---	---	---	---	---	---	---	---
21	18.5	17.4	17.8	---	---	---	---	---	---	---	---	---
22	18.6	18.4	18.5	---	---	---	---	---	---	---	---	---
23	18.6	18.4	18.5	---	---	---	---	---	---	---	---	---
24	18.5	18.4	18.5	---	---	---	---	---	---	---	---	---
25	18.5	18.4	18.4	---	---	---	---	---	---	---	---	---
26	18.6	18.3	18.4	---	---	---	---	---	---	---	---	---
27	18.6	18.5	18.5	---	---	---	---	---	---	---	---	---
28	19.3	17.4	18.2	---	---	---	---	---	---	---	---	---
29	19.3	19.0	19.2	---	---	---	---	---	---	---	---	---
30	19.1	19.0	19.1	---	---	---	---	---	---	---	---	---
31	19.0	18.8	18.9	---	---	---	---	---	---	---	---	---
MONTH	21.0	17.4	19.0	19.2	17.0	18.2	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	12.9	11.8	12.5	15.8	15.1	15.3
2	---	---	---	---	---	---	12.9	12.1	12.5	15.4	15.1	15.3
3	---	---	---	---	---	---	12.3	11.4	12.0	15.4	15.2	15.3
4	---	---	---	---	---	---	11.6	11.3	11.5	15.7	15.3	15.4
5	---	---	---	---	---	---	12.1	11.8	12.0	15.7	15.3	15.5
6	---	---	---	---	---	---	13.3	11.8	12.5	15.6	15.4	15.5
7	---	---	---	---	---	---	13.1	12.6	12.7	15.6	15.3	15.4
8	---	---	---	---	---	---	13.4	12.4	12.9	15.6	15.4	15.5
9	---	---	---	---	---	---	14.1	12.7	13.4	15.6	15.5	15.6
10	---	---	---	---	---	---	14.5	13.1	13.8	15.8	15.5	15.6
11	---	---	---	---	---	---	13.8	13.1	13.4	16.1	15.6	15.8
12	---	---	---	---	---	---	14.3	13.2	13.6	15.8	15.5	15.6
13	---	---	---	---	---	---	13.9	13.3	13.6	16.2	15.2	15.5
14	---	---	---	---	---	---	14.3	13.3	13.7	16.0	15.5	15.7
15	---	---	---	---	---	---	14.2	13.2	13.6	15.9	15.5	15.7
16	---	---	---	---	---	---	14.2	13.4	13.8	16.0	15.7	15.9
17	---	---	---	---	---	---	15.6	14.3	14.9	15.9	15.4	15.7
18	---	---	---	---	---	---	15.6	14.5	15.2	15.8	15.1	15.4
19	---	---	---	11.8	11.6	11.7	16.2	14.9	15.6	16.6	15.5	16.2
20	---	---	---	11.6	11.4	11.5	16.2	14.7	15.4	16.8	16.0	16.3
21	---	---	---	11.7	11.6	11.7	16.3	14.5	15.0	16.9	16.2	16.5
22	---	---	---	11.6	11.5	11.6	15.2	14.5	14.8	16.7	16.3	16.5
23	---	---	---	12.9	11.6	12.0	15.2	14.6	14.8	17.9	16.5	17.1
24	---	---	---	12.7	11.6	12.1	15.4	14.7	14.9	19.6	17.9	18.4
25	---	---	---	12.0	11.7	11.8	14.9	14.7	14.8	19.7	18.6	19.4
26	---	---	---	12.5	11.9	12.2	15.2	14.8	14.9	19.1	18.3	18.7
27	---	---	---	12.0	11.7	11.9	15.1	14.9	15.0	19.1	18.6	18.9
28	---	---	---	12.8	11.6	12.1	15.3	14.8	15.1	19.2	18.7	18.9
29	---	---	---	12.1	11.8	11.9	15.2	14.9	15.1	19.3	18.9	19.1
30	---	---	---	13.1	11.9	12.4	15.5	14.9	15.2	19.2	19.0	19.1
31	---	---	---	12.1	11.7	11.9	---	---	---	19.3	18.9	19.2
MONTH	---	---	---	13.1	11.4	11.9	16.3	11.3	13.9	19.7	15.1	16.6

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.4	18.9	19.0	21.4	21.0	21.1	23.1	21.9	22.4	22.6	22.3	22.4
2	19.5	19.0	19.2	21.2	20.9	21.1	23.2	21.5	22.5	22.7	22.3	22.5
3	19.1	18.3	18.8	21.2	21.0	21.1	22.9	21.7	22.5	22.7	22.3	22.5
4	19.3	19.0	19.1	21.4	21.0	21.2	22.7	22.2	22.4	22.6	22.4	22.5
5	19.4	18.9	19.1	21.2	21.1	21.2	22.7	22.4	22.6	22.9	22.3	22.6
6	19.6	19.1	19.4	21.5	21.1	21.3	23.5	22.0	22.8	22.8	22.3	22.5
7	19.6	19.3	19.5	21.4	21.3	21.4	23.2	22.1	22.7	22.8	22.5	22.7
8	19.7	19.5	19.6	21.6	21.4	21.5	23.2	22.3	22.8	22.8	22.2	22.4
9	19.8	19.6	19.7	21.7	21.5	21.6	23.4	22.2	22.9	22.8	22.5	22.6
10	19.9	19.7	19.8	21.8	21.6	21.6	23.3	22.3	22.9	23.0	22.5	22.8
11	19.9	19.8	19.8	22.0	21.5	21.7	23.5	22.4	23.0	22.9	22.5	22.6
12	20.0	19.9	20.0	21.9	21.6	21.7	23.2	22.5	23.0	22.9	22.5	22.6
13	20.5	19.9	20.1	22.0	21.6	21.8	23.5	22.5	22.9	22.8	22.6	22.7
14	20.3	20.1	20.2	22.0	21.7	21.9	23.0	22.5	22.7	23.2	22.4	22.8
15	20.4	20.2	20.3	22.0	21.8	21.9	22.8	22.3	22.6	22.9	22.7	22.8
16	20.5	20.1	20.3	22.1	21.8	21.9	22.5	22.2	22.3	23.1	22.4	22.8
17	20.5	20.3	20.4	22.0	21.8	21.9	22.4	22.0	22.2	23.1	22.5	22.8
18	20.7	20.4	20.5	22.0	21.5	21.7	22.3	22.0	22.2	23.4	22.6	22.9
19	20.8	20.4	20.5	21.7	21.4	21.6	22.4	22.0	22.2	23.2	22.6	23.0
20	20.7	20.2	20.5	22.0	21.6	21.8	22.6	22.1	22.3	23.6	22.7	23.0
21	20.8	20.5	20.6	22.3	21.8	22.0	22.5	21.9	22.2	23.2	22.5	23.0
22	20.8	20.3	20.6	21.9	21.7	21.8	22.3	22.1	22.2	23.2	22.8	23.0
23	20.8	20.5	20.6	22.0	21.7	21.8	22.5	22.1	22.3	23.1	22.7	22.9
24	20.8	20.6	20.7	21.8	21.5	21.7	23.0	22.1	22.4	23.3	22.6	23.0
25	21.0	20.6	20.8	21.8	21.4	21.6	22.5	22.1	22.2	22.9	22.2	22.6
26	21.0	20.6	20.8	21.7	21.6	21.6	22.4	22.1	22.3	22.4	22.0	22.1
27	20.9	20.8	20.9	21.9	21.4	21.7	22.8	22.2	22.4	22.2	21.8	21.9
28	21.0	20.8	20.9	22.4	21.2	21.8	22.8	22.2	22.4	22.1	21.5	21.8
29	21.1	20.9	21.0	22.0	21.4	21.7	22.7	22.4	22.5	21.9	21.5	21.7
30	21.1	20.9	21.0	22.0	21.4	21.8	22.8	22.2	22.5	21.9	21.5	21.7
31	---	---	---	22.4	21.8	22.0	22.7	22.2	22.4	---	---	---
MONTH	21.1	18.3	20.1	22.4	20.9	21.6	23.5	21.5	22.5	23.6	21.5	22.6
YEAR	23.6	11.3	19.0									

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.3	21.2	21.2	19.1	18.9	19.0	---	---	---	---	---	---
2	21.2	21.0	21.1	18.9	18.5	18.7	---	---	---	---	---	---
3	21.3	20.9	21.0	18.5	18.3	18.4	---	---	---	---	---	---
4	21.1	21.0	21.0	18.3	18.1	18.2	---	---	---	---	---	---
5	21.1	20.8	20.9	18.1	17.5	17.8	---	---	---	---	---	---
6	21.0	20.7	20.9	17.5	16.8	17.2	---	---	---	---	---	---
7	20.8	20.2	20.6	18.9	18.7	18.8	---	---	---	---	---	---
8	20.1	19.5	19.8	18.9	18.8	18.8	---	---	---	---	---	---
9	19.9	18.9	19.5	18.9	18.9	18.9	---	---	---	---	---	---
10	19.7	19.2	19.4	18.9	18.8	18.8	---	---	---	---	---	---
11	19.5	18.8	19.0	18.8	18.4	18.6	---	---	---	---	---	---
12	18.8	18.6	18.7	18.4	18.2	18.3	---	---	---	---	---	---
13	18.7	18.5	18.6	18.3	18.0	18.1	---	---	---	---	---	---
14	18.5	18.4	18.5	18.0	17.8	17.9	---	---	---	---	---	---
15	19.0	18.4	18.6	17.7	17.4	17.5	---	---	---	---	---	---
16	18.4	18.4	18.4	17.3	17.2	17.2	---	---	---	---	---	---
17	19.0	18.3	18.6	17.1	17.1	17.1	---	---	---	---	---	---
18	18.4	18.3	18.4	---	---	---	---	---	---	---	---	---
19	18.6	18.4	18.5	---	---	---	---	---	---	---	---	---
20	18.9	18.3	18.5	---	---	---	---	---	---	---	---	---
21	19.2	17.8	18.3	---	---	---	---	---	---	---	---	---
22	19.0	18.8	18.9	---	---	---	---	---	---	---	---	---
23	19.0	18.9	19.0	---	---	---	---	---	---	---	---	---
24	19.0	18.9	19.0	---	---	---	---	---	---	---	---	---
25	19.0	18.8	18.9	---	---	---	---	---	---	---	---	---
26	19.7	18.8	19.0	---	---	---	---	---	---	---	---	---
27	19.3	18.9	19.1	---	---	---	---	---	---	---	---	---
28	20.1	17.6	19.0	---	---	---	---	---	---	---	---	---
29	20.0	19.5	19.7	---	---	---	---	---	---	---	---	---
30	19.8	19.3	19.5	---	---	---	---	---	---	---	---	---
31	19.6	19.1	19.3	---	---	---	---	---	---	---	---	---
MONTH	21.3	17.6	19.4	19.1	16.8	18.2	---	---	---	---	---	---

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	13.2	12.9	13.0	18.5	17.6	18.2
2	---	---	---	---	---	---	13.7	12.6	13.2	18.4	18.0	18.3
3	---	---	---	---	---	---	13.6	13.1	13.3	18.8	18.0	18.4
4	---	---	---	---	---	---	14.0	12.9	13.4	19.1	18.4	18.7
5	---	---	---	---	---	---	15.4	13.2	14.2	19.3	18.0	18.7
6	---	---	---	---	---	---	16.2	15.4	15.6	19.0	18.8	18.9
7	---	---	---	---	---	---	16.6	15.6	16.1	19.6	18.7	19.1
8	---	---	---	---	---	---	17.8	16.0	16.7	19.5	18.6	19.0
9	---	---	---	---	---	---	18.5	16.4	17.5	19.3	18.5	18.8
10	---	---	---	---	---	---	19.3	17.2	18.4	19.5	18.9	19.1
11	---	---	---	---	---	---	19.7	18.2	19.0	20.8	18.5	19.6
12	---	---	---	---	---	---	19.7	19.3	19.5	19.9	19.1	19.4
13	---	---	---	---	---	---	19.3	18.3	18.7	19.9	18.7	19.5
14	---	---	---	---	---	---	19.5	17.6	18.4	19.9	19.6	19.7
15	---	---	---	---	---	---	18.9	17.8	18.3	21.0	19.1	20.0
16	---	---	---	---	---	---	18.3	17.1	17.6	20.3	19.4	19.8
17	---	---	---	---	---	---	18.0	16.8	17.4	20.5	19.8	20.1
18	---	---	---	---	---	---	17.1	16.4	16.8	22.4	18.9	20.6
19	---	---	---	---	---	---	17.0	16.0	16.5	21.6	20.3	20.8
20	---	---	---	12.7	11.9	12.1	16.7	16.0	16.3	21.2	20.6	21.0
21	---	---	---	12.0	11.8	11.9	16.8	16.2	16.4	22.8	19.5	21.2
22	---	---	---	12.8	11.8	12.2	17.9	16.1	16.9	22.3	20.8	21.2
23	---	---	---	13.3	11.8	12.4	18.5	16.0	17.4	21.3	20.6	20.9
24	---	---	---	13.0	12.1	12.6	17.2	16.1	16.8	21.5	19.6	20.6
25	---	---	---	13.2	12.3	12.8	17.6	16.9	17.1	21.3	20.7	21.0
26	---	---	---	12.9	12.4	12.7	17.6	17.3	17.4	21.2	20.0	20.8
27	---	---	---	13.1	12.3	12.6	17.7	17.4	17.6	21.0	20.4	20.8
28	---	---	---	13.3	11.9	12.5	17.9	17.1	17.5	21.1	20.5	20.8
29	---	---	---	13.0	12.9	13.0	18.4	17.4	18.0	20.9	20.5	20.7
30	---	---	---	13.7	12.9	13.2	19.4	16.9	18.2	20.9	20.6	20.8
31	---	---	---	13.4	13.3	13.3	---	---	---	21.2	20.9	21.0
MONTH	---	---	---	13.7	11.8	12.6	19.7	12.6	16.8	22.8	17.6	19.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.4	20.7	21.0	23.5	23.1	23.2	26.3	26.0	26.1	26.3	25.9	26.0
2	21.1	20.7	21.0	23.4	23.3	23.3	26.7	26.0	26.4	25.9	25.5	25.7
3	20.9	20.5	20.8	23.8	23.4	23.6	26.5	26.4	26.5	25.7	25.6	25.7
4	21.4	20.7	21.0	24.1	23.4	23.7	26.6	26.2	26.4	25.7	25.6	25.6
5	20.9	20.5	20.7	23.8	23.4	23.6	26.4	25.9	26.3	25.6	25.5	25.6
6	21.5	20.5	20.9	23.8	23.2	23.5	27.0	26.0	26.5	26.0	25.3	25.6
7	21.4	20.7	21.0	23.5	23.3	23.4	27.1	26.6	26.8	25.9	25.6	25.8
8	21.1	20.9	21.0	23.5	23.2	23.3	27.1	26.5	26.8	26.2	25.5	25.7
9	21.7	20.8	21.2	23.4	23.4	23.4	27.3	26.5	27.0	26.2	25.7	26.0
10	21.4	21.0	21.2	23.4	23.3	23.4	27.3	27.0	27.2	26.1	25.7	25.9
11	21.5	21.2	21.4	23.7	23.4	23.5	27.4	26.8	27.1	25.7	25.5	25.6
12	21.8	21.3	21.6	23.7	23.6	23.6	27.2	26.6	26.8	25.5	25.1	25.4
13	22.3	21.6	21.8	23.8	23.7	23.7	26.5	25.2	25.7	25.5	25.4	25.4
14	22.0	21.5	21.8	23.8	23.7	23.8	25.4	24.9	25.2	25.4	25.1	25.3
15	22.7	21.9	22.1	23.8	23.8	23.8	25.7	25.0	25.4	25.0	24.7	24.8
16	22.8	22.2	22.5	23.9	23.8	23.8	26.1	24.7	25.5	24.7	24.5	24.6
17	23.0	22.3	22.5	24.2	23.8	23.9	25.9	24.9	25.4	24.5	24.3	24.4
18	23.2	22.5	22.9	23.8	23.7	23.8	25.7	25.2	25.4	24.3	24.2	24.2
19	23.3	22.7	23.0	23.5	23.4	23.4	26.8	25.2	25.8	24.2	24.1	24.2
20	23.4	22.9	23.2	23.7	23.2	23.4	26.2	25.0	25.6	24.0	23.9	24.0
21	23.7	22.6	23.2	24.6	23.9	24.2	26.0	25.5	25.8	23.9	23.7	23.8
22	23.4	23.0	23.2	25.1	24.6	24.8	26.0	25.6	25.7	23.8	23.8	23.8
23	23.5	23.0	23.3	25.9	25.2	25.5	25.9	25.0	25.6	23.8	23.7	23.7
24	23.5	23.3	23.4	26.1	25.7	25.9	25.7	25.2	25.5	23.8	23.7	23.8
25	23.4	23.2	23.3	26.4	25.9	26.2	25.9	25.4	25.6	23.5	23.2	23.3
26	23.3	23.1	23.2	27.2	26.5	26.9	26.3	24.6	25.7	23.0	22.7	22.8
27	23.2	23.1	23.2	27.0	26.5	26.7	27.2	25.5	26.0	22.6	22.5	22.5
28	23.3	22.9	23.2	26.9	26.5	26.7	27.0	25.1	25.9	22.4	22.3	22.3
29	23.5	23.2	23.3	26.7	26.5	26.6	26.4	25.7	26.0	22.3	22.1	22.2
30	23.4	23.1	23.3	26.3	25.9	26.0	26.9	25.7	26.4	22.1	22.0	22.0
31	---	---	---	26.4	25.8	26.1	26.7	26.1	26.3	---	---	---
MONTH	23.7	20.5	22.2	27.2	23.1	24.4	27.4	24.6	26.1	26.3	22.0	24.5
YEAR	27.4	11.8	21.2									

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22.6	21.3	21.9	---	---	---	---	---	---	---	---	---
2	22.4	21.4	22.0	---	---	---	---	---	---	---	---	---
3	23.0	21.3	22.1	---	---	---	---	---	---	---	---	---
4	23.0	21.8	22.3	---	---	---	---	---	---	---	---	---
5	22.7	22.0	22.3	---	---	---	---	---	---	---	---	---
6	21.9	21.2	21.5	---	---	---	---	---	---	---	---	---
7	20.9	20.2	20.6	---	---	---	---	---	---	---	---	---
8	20.0	18.6	19.7	---	---	---	---	---	---	---	---	---
9	20.0	18.5	19.5	---	---	---	---	---	---	---	---	---
10	19.9	19.4	19.6	---	---	---	---	---	---	---	---	---
11	20.0	18.9	19.6	---	---	---	---	---	---	---	---	---
12	20.8	18.6	19.4	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	23.0	18.5	20.9	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	24.0	22.5	23.0
19	---	---	---	---	---	---	---	---	---	23.7	22.5	23.0
20	---	---	---	---	---	---	---	---	---	23.4	22.8	23.1
21	---	---	---	---	---	---	---	---	---	23.2	23.0	23.1
22	---	---	---	---	---	---	---	---	---	22.9	22.6	22.7
23	---	---	---	---	---	---	---	---	---	22.4	22.0	22.2
24	---	---	---	---	---	---	---	---	---	22.0	21.6	21.8
25	---	---	---	---	---	---	---	---	---	21.6	21.2	21.4
26	---	---	---	---	---	---	---	---	---	21.9	21.2	21.5
27	---	---	---	---	---	---	---	---	---	21.5	20.9	21.2
28	---	---	---	---	---	---	---	---	---	21.3	21.0	21.1
29	---	---	---	---	---	---	---	---	---	22.5	21.1	21.6
30	---	---	---	---	---	---	---	---	---	22.5	21.0	21.5
31	---	---	---	---	---	---	---	---	---	21.7	21.4	21.5
MONTH	---	---	---	---	---	---	---	---	---	24.0	20.9	22.1

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.5	21.4	21.5	24.3	23.8	24.1	28.2	27.3	27.7	26.9	26.2	26.4
2	21.3	21.2	21.2	24.3	23.8	24.0	28.9	27.5	28.1	26.9	25.9	26.4
3	21.9	20.3	21.1	25.0	23.7	24.2	28.2	27.4	27.7	26.5	26.0	26.2
4	22.0	21.4	21.7	24.6	24.3	24.4	27.8	27.0	27.2	26.8	25.8	26.2
5	22.7	21.5	22.0	24.2	24.1	24.1	28.3	26.9	27.5	27.9	26.0	26.6
6	23.5	21.7	22.6	24.1	23.7	24.0	29.4	27.5	28.2	27.6	26.1	26.9
7	23.1	22.7	22.8	24.0	23.6	23.7	29.3	27.7	28.5	27.6	26.5	27.0
8	22.7	22.2	22.5	24.0	23.7	23.8	29.7	27.7	28.6	27.5	26.3	26.9
9	23.3	22.2	22.6	24.0	23.6	23.7	29.5	28.3	28.9	27.5	26.3	26.9
10	23.9	22.3	23.0	24.2	23.8	24.0	28.9	28.4	28.7	26.9	26.3	26.4
11	23.8	22.7	23.3	24.2	23.8	24.0	28.8	28.0	28.4	26.8	25.7	26.1
12	24.2	23.0	23.6	24.4	23.9	24.1	28.4	28.0	28.2	27.4	25.4	26.3
13	24.5	23.6	23.9	24.4	23.9	24.1	28.0	27.8	27.9	27.1	25.9	26.5
14	25.1	23.5	24.1	24.2	23.9	24.0	27.8	27.3	27.6	26.4	25.3	25.8
15	24.8	23.9	24.4	24.5	24.0	24.2	28.7	27.2	27.9	26.0	24.8	25.4
16	24.6	23.9	24.3	24.5	24.0	24.3	28.3	27.5	28.0	25.9	24.6	25.2
17	24.7	23.5	24.0	24.6	24.1	24.3	28.2	27.6	27.8	25.5	24.5	25.0
18	24.9	23.6	24.2	24.3	24.0	24.2	27.3	26.8	27.0	25.7	24.4	25.0
19	25.1	23.9	24.4	24.0	23.6	23.8	27.3	26.5	26.8	24.9	24.2	24.4
20	25.0	24.0	24.5	24.3	23.7	24.0	27.1	26.4	26.8	24.8	24.1	24.4
21	24.9	23.9	24.4	25.3	24.3	24.8	27.6	25.9	26.6	25.1	23.9	24.4
22	24.5	24.0	24.2	26.0	25.1	25.4	27.8	26.1	26.8	25.0	24.2	24.6
23	24.2	23.7	23.9	26.6	25.9	26.2	28.0	26.1	27.1	25.2	23.9	24.6
24	24.0	23.5	23.8	27.1	26.5	26.8	27.4	26.2	26.8	24.6	23.8	24.1
25	23.8	23.5	23.6	27.6	26.8	27.1	28.1	26.3	27.1	23.6	23.3	23.5
26	23.7	23.3	23.5	27.7	27.5	27.6	28.0	26.9	27.3	23.9	23.0	23.3
27	24.1	23.4	23.7	27.7	27.1	27.4	27.5	26.6	27.1	23.6	22.6	23.1
28	24.5	23.4	23.9	27.3	26.9	27.0	27.4	26.8	27.1	23.2	22.4	22.7
29	24.4	23.8	24.1	26.9	26.7	26.8	28.0	26.6	27.2	23.2	22.2	22.6
30	24.4	23.8	24.0	26.8	26.5	26.7	27.3	26.8	27.1	23.0	22.1	22.4
31	---	---	---	28.5	26.7	27.4	27.0	26.5	26.7	---	---	---
MONTH	25.1	20.3	23.4	28.5	23.6	25.0	29.7	25.9	27.6	27.9	22.1	25.2
YEAR	29.7	18.5	24.6									

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	.7	.4	.6	6.6	5.9	6.3	---	---	---	---	---	---
2	.5	.4	.4	6.5	5.4	5.9	---	---	---	---	---	---
3	.5	.4	.4	6.1	5.8	6.0	---	---	---	---	---	---
4	.5	.4	.4	5.8	4.5	5.2	---	---	---	---	---	---
5	.6	.5	.5	6.7	4.9	6.1	---	---	---	---	---	---
6	.6	.5	.6	6.5	5.9	6.3	---	---	---	---	---	---
7	.6	.5	.6	6.1	5.7	6.0	---	---	---	---	---	---
8	.6	.6	.6	6.2	5.7	5.9	---	---	---	---	---	---
9	.6	.5	.6	6.1	5.8	6.0	---	---	---	---	---	---
10	3.2	.6	1.0	6.4	5.8	6.1	---	---	---	---	---	---
11	4.7	3.9	4.3	7.0	6.8	6.9	---	---	---	---	---	---
12	5.0	3.5	4.4	7.2	6.8	7.0	---	---	---	---	---	---
13	4.9	4.3	4.7	7.3	7.2	7.2	---	---	---	---	---	---
14	4.7	3.9	4.3	7.6	7.2	7.4	---	---	---	---	---	---
15	4.8	4.3	4.6	7.7	7.5	7.6	---	---	---	---	---	---
16	4.8	4.1	4.4	7.8	7.4	7.6	---	---	---	---	---	---
17	4.4	3.1	3.7	8.0	7.8	7.9	---	---	---	---	---	---
18	4.1	3.3	3.5	---	---	---	---	---	---	---	---	---
19	3.1	2.9	3.0	---	---	---	---	---	---	---	---	---
20	2.8	2.3	2.6	---	---	---	---	---	---	---	---	---
21	3.1	2.3	2.6	---	---	---	---	---	---	---	---	---
22	2.4	2.1	2.3	---	---	---	---	---	---	---	---	---
23	2.1	1.8	1.9	---	---	---	---	---	---	---	---	---
24	2.0	1.3	1.6	---	---	---	---	---	---	---	---	---
25	1.6	1.1	1.4	---	---	---	---	---	---	---	---	---
26	1.5	1.1	1.3	---	---	---	---	---	---	---	---	---
27	1.1	.9	1.0	---	---	---	---	---	---	---	---	---
28	1.3	.9	1.1	---	---	---	---	---	---	---	---	---
29	1.4	.9	1.0	---	---	---	---	---	---	---	---	---
30	1.1	1.0	1.0	---	---	---	---	---	---	---	---	---
31	5.9	.9	3.7	---	---	---	---	---	---	---	---	---
MONTH	5.9	.4	2.1	8.0	4.5	6.6	---	---	---	---	---	---

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	10.6	10.0	10.3	6.9	6.4	6.6
2	---	---	---	---	---	---	10.9	10.4	10.7	6.4	5.8	6.0
3	---	---	---	---	---	---	10.8	9.4	10.2	5.6	5.3	5.5
4	---	---	---	---	---	---	11.1	10.2	10.8	5.5	5.1	5.2
5	---	---	---	---	---	---	11.3	10.9	11.1	5.3	4.9	5.1
6	---	---	---	---	---	---	11.4	11.3	11.3	5.2	5.0	5.1
7	---	---	---	---	---	---	11.4	10.0	10.4	5.2	4.8	5.0
8	---	---	---	---	---	---	11.0	10.6	10.8	4.9	4.7	4.8
9	---	---	---	---	---	---	11.5	10.9	11.2	4.9	4.5	4.6
10	---	---	---	---	---	---	11.5	9.4	10.8	4.7	4.2	4.5
11	---	---	---	---	---	---	9.9	9.6	9.8	4.6	4.2	4.4
12	---	---	---	---	---	---	10.3	9.9	10.1	5.0	4.2	4.6
13	---	---	---	---	---	---	10.6	10.2	10.4	4.8	4.6	4.6
14	---	---	---	---	---	---	10.5	10.4	10.4	4.9	4.6	4.8
15	---	---	---	---	---	---	10.4	10.3	10.4	4.7	4.5	4.6
16	---	---	---	---	---	---	10.4	8.9	9.4	4.6	4.3	4.5
17	---	---	---	---	---	---	9.6	9.1	9.3	4.7	4.3	4.5
18	---	---	---	---	---	---	9.5	9.1	9.3	4.1	3.8	4.0
19	---	---	---	11.4	10.5	10.9	9.9	9.6	9.8	3.9	3.4	3.6
20	---	---	---	11.5	11.2	11.3	9.9	9.5	9.8	3.7	3.4	3.6
21	---	---	---	11.8	11.4	11.6	9.6	9.1	9.3	3.4	3.0	3.3
22	---	---	---	12.0	10.4	11.2	9.2	8.8	9.0	3.3	3.2	3.2
23	---	---	---	12.1	11.2	11.5	8.9	8.7	8.8	5.3	2.9	4.2
24	---	---	---	12.1	9.7	11.6	8.7	7.9	8.4	7.7	4.8	5.9
25	---	---	---	11.5	9.9	10.9	8.6	8.4	8.5	5.6	4.3	5.1
26	---	---	---	11.5	11.3	11.4	8.5	8.3	8.4	4.3	3.4	3.7
27	---	---	---	11.9	11.5	11.8	8.3	7.9	8.0	4.0	3.5	3.8
28	---	---	---	11.7	9.9	10.8	7.9	7.4	7.6	4.0	3.7	3.8
29	---	---	---	11.3	10.8	11.0	7.3	7.1	7.2	3.8	3.6	3.7
30	---	---	---	11.3	10.9	11.1	7.3	6.8	7.0	3.9	3.5	3.7
31	---	---	---	10.2	9.1	9.7	---	---	---	3.3	3.1	3.2
MONTH	---	---	---	12.1	9.1	11.1	11.5	6.8	9.6	7.7	2.9	4.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	2.9	2.5	2.7	.7	.6	.6	.6	.5	.6	1.1	1.0	1.0
2	2.6	2.2	2.5	.6	.6	.6	.6	.5	.5	1.1	1.1	1.1
3	3.2	2.4	2.8	.6	.5	.6	.5	.5	.5	1.1	1.0	1.0
4	2.5	2.2	2.3	.5	.4	.4	---	---	---	1.1	1.0	1.0
5	2.6	2.1	2.4	.5	.4	.5	---	---	---	.9	.9	.9
6	3.0	2.3	2.7	.4	.4	.4	.5	.5	.5	1.0	.9	.9
7	2.9	2.4	2.7	.4	.4	.4	.6	.6	.6	1.0	1.0	1.0
8	2.8	2.6	2.7	.4	.4	.4	.6	.5	.6	1.0	1.0	1.0
9	2.5	2.1	2.3	.5	.4	.5	.6	.5	.5	1.1	1.0	1.1
10	2.3	2.0	2.1	.5	.5	.5	.5	.5	.5	1.2	1.1	1.2
11	2.0	1.8	2.0	.5	.5	.5	---	---	---	---	---	---
12	2.0	1.7	1.8	.5	.5	.5	---	---	---	1.1	1.0	1.1
13	1.7	1.5	1.6	.5	.5	.5	---	---	---	1.1	1.0	1.0
14	1.5	1.3	1.5	.6	.5	.5	---	---	---	1.1	1.0	1.0
15	1.4	1.2	1.3	.8	.6	.7	---	---	---	.9	.9	.9
16	1.3	1.1	1.2	.6	.5	.5	---	---	---	.9	.9	.9
17	1.3	1.0	1.2	---	---	---	---	---	---	1.0	.8	.9
18	1.1	.8	1.0	---	---	---	---	---	---	1.0	.9	1.0
19	.8	.6	.7	---	---	---	---	---	---	1.1	1.0	1.0
20	.6	.5	.6	.7	.5	.6	---	---	---	1.0	1.0	1.0
21	.7	.5	.6	.6	.4	.5	---	---	---	1.0	.9	1.0
22	.6	.6	.6	.6	.5	.5	---	---	---	1.0	.9	1.0
23	1.0	.6	.7	.7	.5	.6	.9	.8	.9	.9	.8	.8
24	1.0	.8	.9	.6	.6	.6	.9	.9	.9	.8	.8	.8
25	.7	.7	.7	---	---	---	1.0	.9	1.0	.9	.8	.8
26	.6	.6	.6	.6	.6	.6	1.0	.9	.9	1.4	.8	1.1
27	.7	.6	.6	.6	.6	.6	.9	.9	.9	1.7	.8	1.3
28	.7	.6	.6	.7	.6	.6	1.0	.9	.9	1.8	1.2	1.5
29	.6	.6	.6	.6	.6	.6	1.0	.9	1.0	2.5	1.4	1.8
30	.6	.6	.6	.7	.6	.6	1.1	1.0	1.0	2.4	1.7	2.0
31	---	---	---	.7	.6	.6	1.1	1.0	1.1	---	---	---
MONTH	3.2	.5	1.5	.8	.4	.5	1.1	.5	.8	2.5	.8	1.1
YEAR	12.1	.4	3.8									

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	.9	.8	.9	6.7	6.4	6.5	---	---	---	---	---	---
2	1.1	1.0	1.0	6.6	6.4	6.5	---	---	---	---	---	---
3	1.3	1.2	1.2	6.4	6.2	6.4	---	---	---	---	---	---
4	1.5	1.3	1.4	6.6	5.9	6.2	---	---	---	---	---	---
5	1.6	1.5	1.6	6.8	6.5	6.7	---	---	---	---	---	---
6	2.8	1.7	2.1	6.7	5.9	6.5	---	---	---	---	---	---
7	2.5	1.6	2.1	6.2	6.1	6.2	---	---	---	---	---	---
8	4.3	3.4	3.9	6.3	6.0	6.1	---	---	---	---	---	---
9	4.3	3.6	4.0	7.5	6.0	6.4	---	---	---	---	---	---
10	4.7	4.2	4.4	7.2	6.3	6.8	---	---	---	---	---	---
11	5.2	5.0	5.1	7.1	6.8	6.9	---	---	---	---	---	---
12	5.4	5.0	5.2	7.3	6.9	7.1	---	---	---	---	---	---
13	5.4	5.3	5.4	7.5	7.1	7.3	---	---	---	---	---	---
14	5.7	5.0	5.4	7.7	7.3	7.5	---	---	---	---	---	---
15	5.4	5.0	5.3	7.8	7.5	7.6	---	---	---	---	---	---
16	5.7	5.1	5.3	7.8	7.4	7.7	---	---	---	---	---	---
17	5.6	5.4	5.5	8.0	7.8	7.9	---	---	---	---	---	---
18	5.4	5.2	5.3	---	---	---	---	---	---	---	---	---
19	5.6	5.1	5.3	---	---	---	---	---	---	---	---	---
20	5.6	4.8	5.2	---	---	---	---	---	---	---	---	---
21	5.8	4.3	4.8	---	---	---	---	---	---	---	---	---
22	4.8	4.1	4.6	---	---	---	---	---	---	---	---	---
23	5.1	4.6	4.9	---	---	---	---	---	---	---	---	---
24	4.9	4.6	4.8	---	---	---	---	---	---	---	---	---
25	5.0	4.6	4.8	---	---	---	---	---	---	---	---	---
26	4.7	4.5	4.6	---	---	---	---	---	---	---	---	---
27	4.6	4.0	4.3	---	---	---	---	---	---	---	---	---
28	4.6	3.6	4.1	---	---	---	---	---	---	---	---	---
29	5.3	3.5	4.5	---	---	---	---	---	---	---	---	---
30	6.4	3.5	5.5	---	---	---	---	---	---	---	---	---
31	6.5	5.6	6.1	---	---	---	---	---	---	---	---	---
MONTH	6.5	.8	4.1	8.0	5.9	6.8	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	10.3	9.9	10.0	8.9	8.0	8.3
2	---	---	---	---	---	---	10.5	10.2	10.4	8.2	7.5	7.8
3	---	---	---	---	---	---	10.6	9.5	10.1	7.6	7.2	7.4
4	---	---	---	---	---	---	10.8	10.0	10.5	8.0	6.7	7.1
5	---	---	---	---	---	---	11.1	10.7	10.9	7.7	6.5	7.2
6	---	---	---	---	---	---	11.2	10.9	11.0	7.2	6.5	6.7
7	---	---	---	---	---	---	11.2	10.0	10.5	7.2	6.3	6.7
8	---	---	---	---	---	---	10.8	10.5	10.7	7.1	6.3	6.8
9	---	---	---	---	---	---	11.3	10.6	10.9	6.9	6.4	6.6
10	---	---	---	---	---	---	11.2	9.6	10.9	7.5	6.0	6.7
11	---	---	---	---	---	---	9.9	9.7	9.8	7.9	6.3	6.8
12	---	---	---	---	---	---	10.2	9.9	10.0	7.3	6.1	6.7
13	---	---	---	---	---	---	10.4	10.2	10.4	8.0	5.8	6.9
14	---	---	---	---	---	---	10.5	10.3	10.4	7.2	6.1	6.8
15	---	---	---	---	---	---	10.4	10.2	10.3	6.8	6.0	6.4
16	---	---	---	---	---	---	10.3	9.2	9.6	6.7	6.2	6.5
17	---	---	---	---	---	---	9.7	9.4	9.6	7.2	6.1	6.5
18	---	---	---	---	---	---	9.9	9.6	9.8	7.2	6.2	6.7
19	---	---	---	11.5	10.7	11.0	10.1	9.9	10.0	7.6	5.5	6.1
20	---	---	---	11.4	11.2	11.3	10.4	9.7	10.0	7.8	4.8	5.7
21	---	---	---	11.8	11.4	11.5	10.0	9.3	9.6	7.6	5.4	6.1
22	---	---	---	11.9	10.4	11.2	9.3	9.1	9.2	6.3	5.2	5.8
23	---	---	---	11.8	10.9	11.3	9.3	8.9	9.1	9.1	5.3	7.0
24	---	---	---	11.8	9.7	11.4	9.0	8.8	8.9	9.0	6.8	8.2
25	---	---	---	11.4	10.0	10.9	9.1	8.8	8.9	7.5	6.8	7.2
26	---	---	---	11.4	11.1	11.2	9.1	8.8	8.9	7.0	6.3	6.6
27	---	---	---	11.7	11.4	11.6	8.9	8.5	8.7	6.7	6.2	6.4
28	---	---	---	11.6	9.8	10.7	8.8	8.3	8.6	6.6	6.0	6.2
29	---	---	---	11.1	10.7	10.9	8.6	8.3	8.4	6.4	5.5	6.1
30	---	---	---	11.0	10.8	10.9	8.8	8.0	8.3	6.2	5.9	6.1
31	---	---	---	10.1	9.1	9.7	---	---	---	5.9	5.6	5.7
MONTH	---	---	---	11.9	9.1	11.0	11.3	8.0	9.8	9.1	4.8	6.7

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	5.8	4.7	5.2	3.5	1.1	1.8	.6	.5	.5	1.6	1.1	1.2
2	5.8	4.9	5.2	1.6	.8	1.3	.6	.5	.6	1.4	1.1	1.2
3	5.7	4.7	5.1	1.6	.6	1.1	.5	.4	.5	1.3	1.0	1.0
4	5.3	4.6	4.9	2.3	.7	1.1	.6	.4	.5	1.0	.9	1.0
5	5.4	4.5	5.0	1.2	.7	.9	.5	.4	.4	1.0	.9	1.0
6	5.8	4.9	5.4	1.8	.7	1.2	.5	.4	.5	.9	.9	.9
7	5.5	4.8	5.3	.8	.7	.7	.5	.4	.4	.9	.8	.8
8	5.5	5.0	5.2	1.5	.7	.9	.5	.5	.5	.9	.9	.9
9	5.5	4.8	5.1	1.0	.6	.7	.5	.3	.4	.9	.9	.9
10	5.2	4.7	5.0	.9	.7	.8	.4	.4	.4	.9	.9	.9
11	4.8	4.5	4.6	.8	.6	.7	---	---	---	1.0	1.0	1.0
12	4.8	4.5	4.7	.8	.5	.6	---	---	---	1.1	1.0	1.0
13	5.0	4.5	4.7	.6	.5	.6	---	---	---	1.0	.9	.9
14	5.3	4.5	4.8	.5	.5	.5	---	---	---	1.0	1.0	1.0
15	5.3	4.3	4.7	.5	.5	.5	---	---	---	.9	.8	.9
16	4.9	3.9	4.6	.4	.4	.4	---	---	---	.9	.8	.8
17	4.7	4.1	4.5	.4	.4	.4	---	---	---	.9	.8	.8
18	5.0	4.0	4.4	1.3	.6	.8	---	---	---	.8	.8	.8
19	4.3	3.6	4.0	1.3	.8	1.0	---	---	---	.9	.8	.9
20	3.6	1.8	2.8	.8	.5	.6	---	---	---	.9	.8	.9
21	3.5	2.0	2.7	.6	.5	.5	---	---	---	.9	.9	.9
22	2.9	1.6	2.4	.6	.5	.6	---	---	---	1.0	.9	.9
23	3.0	1.5	2.2	.6	.5	.5	3.5	3.2	3.3	.9	.8	.9
24	2.7	1.8	2.1	.6	.5	.5	3.3	2.7	3.1	1.0	.8	.8
25	2.8	1.4	2.2	.6	.5	.6	3.5	2.7	3.0	.8	.8	.8
26	2.5	1.2	1.9	.7	.5	.6	3.0	2.6	2.8	.8	.8	.8
27	2.2	1.5	1.9	.5	.5	.5	2.6	2.2	2.4	.9	.8	.8
28	2.0	1.4	1.7	.6	.5	.6	2.4	1.9	2.2	3.0	.9	2.1
29	2.2	1.8	2.0	.6	.5	.6	2.3	1.9	2.1	3.0	1.6	2.0
30	2.1	1.1	1.6	.6	.5	.6	2.3	1.7	2.0	4.7	1.9	3.6
31	---	---	---	.6	.6	.6	2.1	1.4	1.6	---	---	---
MONTH	5.8	1.1	3.9	3.5	.4	.7	3.5	.3	1.4	4.7	.8	1.1
YEAR	11.9	.3	4.7									

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.2	6.0	6.1	6.7	6.3	6.5	---	---	---	---	---	---
2	6.2	6.2	6.2	6.6	6.1	6.4	---	---	---	---	---	---
3	6.2	6.2	6.2	6.3	5.9	6.2	---	---	---	---	---	---
4	6.6	6.2	6.4	6.2	5.9	6.1	---	---	---	---	---	---
5	6.5	6.3	6.4	6.6	6.3	6.4	---	---	---	---	---	---
6	6.0	5.7	5.8	6.2	6.0	6.2	---	---	---	---	---	---
7	5.9	5.1	5.4	5.7	5.3	5.6	---	---	---	---	---	---
8	5.8	4.7	5.2	5.8	5.5	5.6	---	---	---	---	---	---
9	5.4	4.7	5.1	5.9	5.6	5.8	---	---	---	---	---	---
10	6.3	5.1	5.5	6.5	5.9	6.2	---	---	---	---	---	---
11	6.7	5.8	6.1	6.8	6.5	6.6	---	---	---	---	---	---
12	6.3	5.9	6.1	7.0	6.6	6.8	---	---	---	---	---	---
13	6.4	6.3	6.4	7.1	6.9	7.0	---	---	---	---	---	---
14	6.8	6.6	6.7	7.4	7.0	7.1	---	---	---	---	---	---
15	7.4	6.8	6.9	7.6	7.3	7.4	---	---	---	---	---	---
16	7.4	6.5	6.9	7.5	7.2	7.3	---	---	---	---	---	---
17	8.1	6.5	7.3	7.6	7.5	7.5	---	---	---	---	---	---
18	7.5	6.6	6.9	---	---	---	---	---	---	---	---	---
19	8.0	7.8	7.9	---	---	---	---	---	---	---	---	---
20	8.1	7.2	7.7	---	---	---	---	---	---	---	---	---
21	8.0	6.1	7.3	---	---	---	---	---	---	---	---	---
22	6.2	5.3	5.7	---	---	---	---	---	---	---	---	---
23	8.0	6.8	7.3	---	---	---	---	---	---	---	---	---
24	8.3	7.6	7.9	---	---	---	---	---	---	---	---	---
25	8.2	6.5	7.6	---	---	---	---	---	---	---	---	---
26	8.5	5.8	7.4	---	---	---	---	---	---	---	---	---
27	8.4	6.3	7.6	---	---	---	---	---	---	---	---	---
28	9.3	4.5	7.9	---	---	---	---	---	---	---	---	---
29	8.1	7.8	7.9	---	---	---	---	---	---	---	---	---
30	7.9	6.7	7.2	---	---	---	---	---	---	---	---	---
31	6.8	5.9	6.3	---	---	---	---	---	---	---	---	---
MONTH	9.3	4.5	6.7	7.6	5.3	6.5	---	---	---	---	---	---

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	10.4	9.9	10.1	9.8	9.1	9.4
2	---	---	---	---	---	---	10.5	10.0	10.3	9.4	8.9	9.2
3	---	---	---	---	---	---	10.4	10.0	10.2	9.1	8.8	9.0
4	---	---	---	---	---	---	10.9	10.5	10.6	9.2	8.6	8.9
5	---	---	---	---	---	---	10.8	10.3	10.6	9.3	8.8	9.0
6	---	---	---	---	---	---	10.4	10.3	10.4	9.3	8.9	9.1
7	---	---	---	---	---	---	10.4	9.7	10.0	9.2	8.7	9.0
8	---	---	---	---	---	---	10.1	9.9	10.0	9.0	8.6	8.8
9	---	---	---	---	---	---	10.1	9.9	10.0	9.3	8.6	8.9
10	---	---	---	---	---	---	10.5	9.1	10.0	9.5	8.8	9.1
11	---	---	---	---	---	---	9.2	8.9	9.1	9.2	8.6	8.9
12	---	---	---	---	---	---	9.3	8.9	9.1	9.2	8.9	9.0
13	---	---	---	---	---	---	9.8	9.3	9.5	9.1	8.8	9.0
14	---	---	---	---	---	---	10.0	9.4	9.7	9.1	8.8	8.9
15	---	---	---	---	---	---	10.0	9.5	9.7	9.3	8.8	9.1
16	---	---	---	---	---	---	9.7	8.8	9.3	9.3	8.7	9.0
17	---	---	---	---	---	---	9.6	9.1	9.3	9.5	8.9	9.2
18	---	---	---	---	---	---	10.2	9.3	9.8	9.8	8.7	9.0
19	---	---	---	---	---	---	10.5	9.9	10.2	10.0	8.7	9.3
20	---	---	---	11.5	11.2	11.4	10.8	10.1	10.4	10.1	8.9	9.4
21	---	---	---	11.5	11.0	11.3	10.7	9.9	10.2	9.6	8.2	8.9
22	---	---	---	11.9	10.5	11.2	10.1	9.8	9.9	9.6	7.9	9.0
23	---	---	---	11.6	10.9	11.2	10.0	9.4	9.7	9.8	8.8	9.2
24	---	---	---	11.7	11.5	11.6	9.7	9.1	9.5	9.5	7.9	8.8
25	---	---	---	11.1	10.0	10.7	9.7	9.6	9.7	8.6	8.0	8.3
26	---	---	---	11.4	11.0	11.1	9.6	9.4	9.6	8.5	7.7	8.1
27	---	---	---	11.6	11.3	11.4	9.6	9.3	9.4	8.6	7.6	8.2
28	---	---	---	11.6	9.6	10.8	9.6	9.1	9.4	8.7	7.8	8.3
29	---	---	---	10.9	10.5	10.8	9.6	9.1	9.3	8.6	7.6	8.1
30	---	---	---	10.8	10.5	10.6	9.8	9.0	9.3	8.8	8.6	8.7
31	---	---	---	10.8	9.2	9.9	---	---	---	9.0	8.7	8.9
MONTH	---	---	---	11.9	9.2	11.0	10.9	8.8	9.8	10.1	7.6	8.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.8	8.0	8.6	9.2	8.2	8.6	8.2	7.4	7.8	7.5	6.6	7.0
2	8.8	7.6	8.5	9.2	8.0	8.5	8.9	7.3	8.4	7.4	6.5	6.9
3	8.9	7.7	8.4	8.9	8.2	8.5	8.1	7.5	7.8	7.2	6.8	7.0
4	8.8	8.3	8.5	9.0	8.1	8.4	---	---	---	7.3	7.0	7.2
5	8.9	7.2	8.0	8.9	8.0	8.4	---	---	---	7.3	6.9	7.1
6	9.4	6.8	8.0	9.3	8.0	8.5	8.4	7.4	7.7	8.3	5.6	7.1
7	8.9	7.8	8.4	8.8	8.4	8.5	8.8	8.0	8.5	8.2	6.9	7.6
8	9.1	8.4	8.6	8.8	8.3	8.6	9.0	8.0	8.6	8.2	7.1	7.7
9	8.9	8.3	8.6	8.6	8.1	8.4	9.0	8.1	8.5	7.6	6.9	7.2
10	9.4	8.2	8.7	8.6	8.0	8.2	9.1	7.8	8.4	---	---	---
11	9.1	8.5	8.8	7.8	7.6	7.8	---	---	---	---	---	---
12	9.2	8.7	8.9	8.0	7.6	7.8	---	---	---	7.0	6.5	6.8
13	9.4	8.6	8.9	8.1	7.6	7.8	---	---	---	6.9	6.6	6.8
14	9.4	8.7	9.0	7.6	7.3	7.4	---	---	---	6.8	4.1	5.9
15	9.3	8.4	8.9	7.0	6.6	6.8	---	---	---	5.3	4.6	4.9
16	9.5	8.8	9.2	6.6	6.3	6.4	---	---	---	5.2	4.5	4.9
17	9.1	8.8	9.0	6.3	5.9	6.1	---	---	---	5.4	4.4	5.1
18	8.7	8.0	8.4	6.5	5.9	6.2	---	---	---	4.9	4.4	4.6
19	8.7	8.1	8.4	7.1	6.6	6.9	---	---	---	4.5	4.4	4.4
20	8.6	8.1	8.4	7.4	6.9	7.1	---	---	---	5.5	4.3	4.8
21	9.1	8.1	8.6	7.9	7.1	7.5	---	---	---	5.7	4.5	5.2
22	9.2	8.2	8.8	7.5	7.1	7.3	---	---	---	5.5	5.0	5.2
23	8.8	7.3	8.2	7.4	7.0	7.2	7.4	6.9	7.1	5.9	4.9	5.4
24	7.6	7.2	7.4	---	---	---	7.1	5.9	6.7	6.5	5.0	5.4
25	7.9	7.2	7.4	---	---	---	7.5	6.8	7.2	4.9	3.8	4.5
26	7.8	7.3	7.5	7.8	7.5	7.7	7.7	4.9	7.0	4.4	3.4	3.9
27	7.8	7.4	7.6	8.3	7.4	7.9	7.5	6.0	7.0	6.0	4.8	5.2
28	8.4	7.5	7.8	8.8	8.1	8.4	7.6	6.0	7.0	5.8	4.3	5.2
29	8.2	7.8	7.9	8.7	8.0	8.2	8.6	7.3	7.7	5.4	5.0	5.2
30	8.6	7.9	8.2	8.7	5.4	7.1	8.0	7.5	7.9	5.6	5.3	5.5
31	---	---	---	8.3	6.2	7.4	7.2	6.8	7.0	---	---	---
MONTH	9.5	6.8	8.4	9.3	5.4	7.7	9.1	4.9	7.7	8.3	3.4	5.8
YEAR	11.9	3.4	8.0									

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.0	6.7	6.9	---	---	---	---	---	---	---	---	---
2	6.7	6.6	6.6	---	---	---	---	---	---	---	---	---
3	6.6	6.6	6.6	---	---	---	---	---	---	---	---	---
4	7.4	6.6	7.0	---	---	---	---	---	---	---	---	---
5	7.0	6.6	6.8	---	---	---	---	---	---	---	---	---
6	6.9	6.6	6.7	---	---	---	---	---	---	---	---	---
7	5.8	5.3	5.6	---	---	---	---	---	---	---	---	---
8	5.7	5.0	5.4	---	---	---	---	---	---	---	---	---
9	5.6	5.0	5.2	---	---	---	---	---	---	---	---	---
10	6.1	5.0	5.6	---	---	---	---	---	---	---	---	---
11	6.4	5.5	5.8	---	---	---	---	---	---	---	---	---
12	6.4	5.5	5.9	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	7.4	5.0	6.2	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	8.7	8.1	8.5
19	---	---	---	---	---	---	---	---	---	8.5	8.2	8.3
20	---	---	---	---	---	---	---	---	---	8.5	7.9	8.2
21	---	---	---	---	---	---	---	---	---	8.4	7.9	8.2
22	---	---	---	---	---	---	---	---	---	8.1	7.9	8.0
23	---	---	---	---	---	---	---	---	---	8.4	7.9	8.2
24	---	---	---	---	---	---	---	---	---	8.4	8.1	8.2
25	---	---	---	---	---	---	---	---	---	8.6	8.1	8.4
26	---	---	---	---	---	---	---	---	---	8.6	8.0	8.4
27	---	---	---	---	---	---	---	---	---	8.8	8.2	8.5
28	---	---	---	---	---	---	---	---	---	9.0	8.5	8.7
29	---	---	---	---	---	---	---	---	---	9.0	8.5	8.7
30	---	---	---	---	---	---	---	---	---	9.1	8.8	9.0
31	---	---	---	---	---	---	---	---	---	9.2	9.0	9.1
MONTH	---	---	---	---	---	---	---	---	---	9.2	7.9	8.5

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.9	8.6	8.8	8.5	7.8	8.1	9.4	8.9	9.1	7.7	7.1	7.4
2	9.1	8.7	8.8	8.5	8.0	8.2	8.9	8.3	8.5	7.6	7.2	7.4
3	9.2	8.9	9.0	8.8	8.2	8.5	8.1	7.8	7.9	7.8	7.3	7.5
4	8.8	8.4	8.6	8.7	8.3	8.4	---	---	---	8.1	7.3	7.6
5	8.6	8.1	8.3	8.5	8.1	8.3	---	---	---	7.9	7.3	7.5
6	8.8	8.0	8.4	9.1	8.3	8.7	8.4	8.2	8.3	7.7	7.4	7.6
7	8.5	7.9	8.2	9.1	8.8	8.9	9.1	8.5	8.8	8.0	7.5	7.7
8	9.6	8.4	8.8	8.8	8.7	8.8	9.5	9.0	9.3	7.8	7.6	7.7
9	8.8	8.4	8.6	9.0	8.6	8.8	8.6	8.3	8.5	7.8	7.2	7.6
10	8.6	7.7	8.3	8.6	8.3	8.5	8.2	8.0	8.2	7.1	6.8	6.9
11	8.6	7.7	8.2	8.7	7.8	8.2	---	---	---	---	---	---
12	8.6	7.5	8.0	8.6	8.1	8.3	---	---	---	7.3	6.8	7.1
13	9.3	7.4	7.9	8.4	8.2	8.3	---	---	---	7.4	6.9	7.2
14	7.8	7.3	7.6	8.1	7.9	8.0	---	---	---	7.9	6.2	7.4
15	7.6	7.0	7.3	8.0	7.8	7.9	---	---	---	6.5	5.0	5.8
16	8.4	7.0	7.4	8.1	7.7	7.9	---	---	---	6.6	5.3	6.0
17	7.9	7.5	7.7	7.9	7.5	7.8	---	---	---	6.5	5.4	6.0
18	7.6	7.1	7.4	7.5	7.2	7.4	---	---	---	6.2	5.4	5.7
19	7.2	6.8	7.0	7.7	7.5	7.6	---	---	---	5.4	5.0	5.2
20	7.5	6.7	7.0	7.7	7.2	7.6	---	---	---	6.1	5.4	5.7
21	7.5	7.2	7.3	8.0	7.5	7.7	---	---	---	6.7	5.4	6.1
22	7.5	6.9	7.2	8.3	7.3	7.6	---	---	---	7.3	6.4	6.9
23	7.9	7.3	7.6	8.1	7.4	7.7	7.2	7.1	7.1	7.1	5.8	6.6
24	7.6	7.3	7.5	---	---	---	7.8	6.9	7.3	7.2	6.3	6.7
25	7.8	7.5	7.7	---	---	---	7.9	7.1	7.5	5.7	4.5	5.1
26	8.1	7.5	7.7	8.5	8.0	8.2	7.5	7.3	7.4	6.3	3.9	5.1
27	9.0	7.5	8.0	8.3	7.8	8.0	7.6	7.4	7.4	6.8	4.9	6.0
28	8.1	7.7	7.9	8.8	8.1	8.4	7.7	7.3	7.5	6.7	5.4	6.0
29	7.9	7.7	7.8	9.0	8.3	8.6	7.9	7.4	7.6	6.6	5.8	6.1
30	8.1	7.8	7.9	9.2	8.5	8.7	8.0	7.6	7.9	6.7	6.0	6.3
31	---	---	---	9.4	8.9	9.1	7.8	7.2	7.6	---	---	---
MONTH	9.6	6.7	7.9	9.4	7.2	8.2	9.5	6.9	8.0	8.1	3.9	6.6
YEAR	9.6	3.9	7.6									

03400800 MARTINS FORK NEAR SMITH, KY

LOCATION.--Lat 36°45'08", long 83°15'27", Harlan County, Hydrologic Unit 05130101, on left bank 150 ft downstream from State Highway 987 bridge, 0.3 mi downstream from Martins Fork Dam, 0.7 mi downstream from Crane Creek, 1.0 mi north of Smith, and at mile 15.3.

DRAINAGE AREA.--55.8 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1968-71, and annual maximums, water years 1968-70. April 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,259.00 ft above NGVD of 1929. July 25, 1967 to Apr. 9, 1971, crest-stage gage at site 30 ft downstream at same datum, and Apr. 10, 1971 to Sept. 30, 1977, water-stage recorder at site 0.8 mi downstream at same datum.

REMARKS.--Records fair except for those estimated, which are poor. Flow regulated by Martins Fork Dam (station 03400798) beginning November 1978.

COOPERATION.--U.S. Army Corps of Engineers, Nashville District and Kentucky Division of Water.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	e24	24	24	59	393	10	12	30	12	131	15
2	12	e24	24	21	73	279	10	13	15	12	130	15
3	17	e24	24	17	96	205	11	13	15	12	80	15
4	20	e24	16	17	96	203	101	13	15	13	21	15
5	21	e24	9.6	17	76	201	190	13	40	13	21	15
6	e21	e24	9.6	17	40	148	161	13	80	13	21	15
7	e21	e24	9.6	17	39	98	127	13	100	13	21	15
8	e21	79	9.6	17	39	98	128	13	73	14	21	15
9	e21	94	9.6	17	39	65	127	14	48	16	21	15
10	e21	94	9.6	17	40	45	88	13	48	17	21	15
11	e21	94	9.6	17	40	45	25	13	48	e16	20	16
12	44	93	9.6	17	50	45	25	13	48	e14	21	16
13	63	91	10	17	61	101	20	13	48	e13	279	17
14	63	50	11	17	62	139	13	13	47	e12	469	17
15	63	26	65	17	105	140	13	13	47	e12	267	17
16	63	25	100	17	238	142	64	13	47	e12	74	17
17	64	25	100	17	321	142	124	13	47	e12	60	17
18	43	25	144	17	332	142	124	13	29	e12	46	17
19	24	25	175	123	333	143	124	13	12	e13	45	17
20	24	25	175	263	414	144	78	13	12	23	45	18
21	e24	25	104	267	451	144	12	14	12	25	37	18
22	e24	25	63	357	444	181	12	21	13	24	22	18
23	e24	25	72	412	440	175	12	190	13	e23	14	18
24	e24	25	72	396	433	142	12	324	12	e22	15	19
25	e24	25	70	288	425	142	12	249	12	26	14	18
26	e24	25	70	161	423	142	12	118	12	27	14	18
27	e24	25	70	116	415	162	12	117	12	28	14	28
28	e24	25	44	115	405	192	12	116	12	27	e15	42
29	e24	24	24	113	---	191	12	103	12	30	e15	42
30	e24	24	24	93	---	187	12	61	12	87	e15	41
31	e24	---	24	59	---	74	---	41	---	133	e15	---
TOTAL	923	1162	1581.8	3080	5989	4650	1683	1614	971	726	2004	581
MEAN	29.8	38.7	51.0	99.4	214	150	56.1	52.1	32.4	23.4	64.6	19.4
MAX	64	94	175	412	451	393	190	324	100	133	469	42
MIN	12	24	9.6	17	39	45	10	12	12	12	14	15

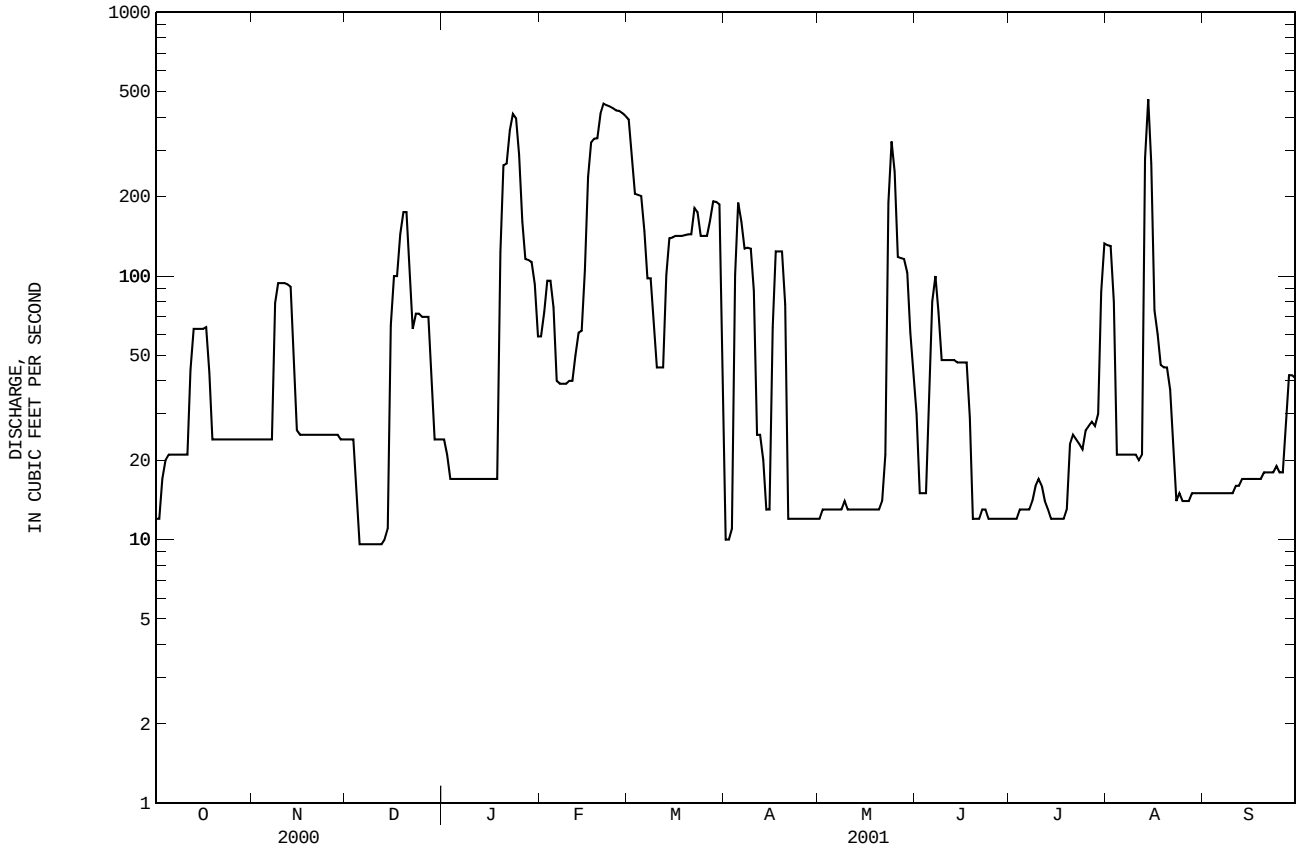
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2001, BY WATER YEAR (WY)

MEAN	50.2	99.0	141	173	203	193	126	124	64.0	24.8	31.0	24.8
MAX	181	226	452	357	481	360	428	322	267	75.3	117	117
(WY)	1990	1997	1992	1982	1994	1994	1998	1983	1989	1990	1996	1989
MIN	11.0	28.9	16.4	10.1	66.9	33.5	12.4	36.7	12.5	9.34	9.43	9.49
(WY)	1998	1981	1981	1981	1999	1988	1986	1987	1988	1988	1988	1984

03400800 MARTINS FORK NEAR SMITH, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1980 - 2001	
ANNUAL TOTAL	24516.6		24964.8			
ANNUAL MEAN	67.0		68.4		104	
HIGHEST ANNUAL MEAN					173	1994
LOWEST ANNUAL MEAN					58.0	1988
HIGHEST DAILY MEAN	462	Apr 5	469	Aug 14	1510	Apr 20 1998
LOWEST DAILY MEAN	9.1	Jun 10	9.6	Dec 5	5.4	Aug 31 1996
ANNUAL SEVEN-DAY MINIMUM	9.6	Dec 5	9.6	Dec 5	6.7	Jul 16 1980
MAXIMUM PEAK FLOW			486	Aug 13	9000	Apr 4 1977
MAXIMUM PEAK STAGE			10.83	Aug 13	24.24	Apr 4 1977
INSTANTANEOUS LOW FLOW					.10	Oct 30 1978
10 PERCENT EXCEEDS	165		175		289	
50 PERCENT EXCEEDS	34		24		46	
90 PERCENT EXCEEDS	12		12		11	

e Estimated



03400800 MARTINS FORK NEAR SMITH, KY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE.--October 1971 to current water year.
pH.--December 1979 to current water year.
WATER TEMPERATURES.--October 1971 to current water year.
DISSOLVED OXYGEN.--December 1979 to current water year.

INSTRUMENTATION.--Water-quality monitor since October 1971.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE.--(water years 1972-77, 1980 to current water year); Maximum recorded, 561 microsiemens, Feb. 12, 1972; minimum recorded, 49 microsiemens, Feb. 26, 1985.
pH.--Maximum recorded, 8.2 units, July 2, 1980; minimum recorded, 5.9 units, Jan. 6, 7, 1996, Sep. 20, 1998.
WATER TEMPERATURES.--Maximum recorded, 32.5°C, Aug. 6, 1982; minimum recorded, 0.0°C, on many days during the winter months.
DISSOLVED OXYGEN.--Maximum recorded, 15.6 mg/L, Jan. 20, 21, 1985; minimum recorded, 4.6 mg/L, Aug. 10, 1994.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE.--Maximum recorded, 185 microsiemens, Jan. 19; minimum recorded, 89 microsiemens, Feb. 25.
pH.--Maximum recorded, 7.7 units, Nov. 1, 14, 15, 18, 19, 22, 23, Dec. 11-14; minimum recorded, 6.5 units, July 7-15 and Sept. 21-23.
WATER TEMPERATURES.--Maximum recorded, 27.7°C, July 24, Aug. 9; minimum recorded, 2.9°C, Jan. 1.
DISSOLVED OXYGEN.--Maximum recorded, 13.4 mg/L, Jan. 10; minimum recorded, 6.0 mg/L, Sept. 19.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	175	172	173	177	171	174	176	168	173	158	154	155
2	174	172	173	176	171	174	177	175	175	164	158	163
3	173	167	170	175	173	174	179	176	176	162	159	161
4	173	170	172	176	174	175	176	174	176	163	161	162
5	172	171	172	175	174	175	176	175	175	164	161	162
6	173	169	172	175	173	174	176	175	175	163	161	162
7	173	168	171	175	175	175	176	175	175	163	161	162
8	173	172	172	175	173	174	176	175	175	163	161	162
9	173	170	172	174	172	173	176	175	175	162	159	160
10	173	171	172	174	173	174	176	175	175	159	158	159
11	173	172	173	177	171	173	177	176	177	159	157	158
12	175	172	173	173	172	173	176	174	174	159	157	158
13	174	172	173	173	172	173	174	168	173	158	157	158
14	175	172	173	175	173	174	178	170	175	161	158	159
15	175	173	174	174	173	174	176	173	174	163	160	162
16	176	171	173	175	173	174	180	174	178	164	161	162
17	175	170	173	175	168	173	175	164	166	162	161	161
18	175	171	174	175	167	171	165	147	159	177	162	165
19	173	169	172	176	169	172	151	147	149	185	149	165
20	173	170	172	176	169	173	155	151	154	155	130	146
21	174	172	173	176	169	171	155	152	154	140	126	132
22	174	171	173	176	169	173	153	150	151	126	115	119
23	174	170	173	176	170	173	151	150	150	133	110	123
24	174	172	173	176	169	173	150	150	150	134	101	121
25	176	171	173	173	167	171	151	150	151	142	105	121
26	177	172	174	173	166	170	152	151	151	141	124	130
27	177	172	175	172	169	170	153	152	152	129	125	127
28	177	173	174	172	168	170	159	153	156	131	129	129
29	179	172	175	172	167	170	159	155	157	134	131	132
30	179	172	175	172	168	170	155	153	154	136	131	134
31	178	172	174	---	---	---	154	153	154	135	132	134
MONTH	179	167	173	177	166	173	180	147	165	185	101	149

03400800 MARTINS FORK NEAR SMITH, KY--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	135	132	133	112	97	103	124	113	119	117	114	115
2	135	132	134	115	104	108	123	114	120	124	115	118
3	135	134	134	115	104	109	127	119	125	118	114	117
4	135	133	134	113	100	106	129	120	125	119	110	114
5	134	131	133	122	101	108	121	117	119	120	116	118
6	133	129	131	108	101	105	126	118	122	117	113	115
7	133	130	132	108	102	104	126	120	123	123	113	120
8	134	129	132	111	102	106	125	121	123	124	123	123
9	133	126	131	107	99	103	124	120	122	124	122	123
10	132	124	128	108	99	103	126	120	123	123	120	122
11	132	124	127	107	99	103	127	126	126	128	118	122
12	136	125	130	108	99	104	127	125	126	127	126	127
13	136	127	130	109	99	105	130	126	128	126	123	125
14	136	126	131	108	107	107	130	129	129	125	122	124
15	132	123	128	110	108	109	130	128	129	133	122	130
16	137	127	131	110	107	109	129	125	127	129	126	127
17	140	115	124	112	106	110	125	116	123	126	123	124
18	137	117	122	116	109	112	123	112	117	125	122	124
19	135	104	118	116	103	108	123	113	117	126	123	125
20	123	104	111	118	108	114	124	113	117	126	124	125
21	126	106	118	113	104	108	125	118	122	128	122	124
22	115	100	106	111	104	107	123	115	118	131	120	127
23	125	107	114	120	103	108	122	114	117	128	123	126
24	112	95	106	118	105	112	121	112	116	135	123	127
25	111	89	100	117	107	112	121	118	120	139	128	135
26	113	97	108	116	105	111	118	112	116	138	131	135
27	120	96	104	120	114	116	120	112	115	139	134	136
28	122	101	109	120	110	115	120	112	116	142	130	136
29	---	---	---	121	113	117	119	114	117	145	136	141
30	---	---	---	118	112	115	122	114	118	146	140	143
31	---	---	---	123	114	118	---	---	---	146	139	142
MONTH	140	89	123	123	97	109	130	112	121	146	110	126

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	146	136	142	147	141	144	167	156	162	124	121	122
2	143	140	142	148	145	147	167	154	160	122	120	121
3	144	138	141	148	145	147	178	164	166	123	120	122
4	144	137	142	148	141	147	165	162	164	123	122	123
5	147	139	142	149	146	147	166	164	165	124	122	123
6	149	141	146	148	146	147	166	164	165	125	122	123
7	149	142	146	148	146	148	166	163	165	124	122	123
8	149	142	146	148	144	147	166	162	164	125	122	124
9	148	143	146	148	146	147	165	163	164	125	122	124
10	149	142	145	147	145	146	166	164	165	126	124	125
11	148	145	147	147	145	146	168	165	166	126	124	125
12	149	141	144	147	145	147	167	165	166	126	119	124
13	150	146	148	148	147	148	169	138	158	125	117	120
14	146	143	145	149	148	149	140	127	133	122	118	121
15	150	142	146	151	148	150	133	126	128	125	117	120
16	151	142	145	152	149	150	136	126	131	123	120	121
17	151	145	149	152	151	152	131	126	129	122	120	121
18	152	146	150	154	151	153	132	130	131	124	120	122
19	147	138	144	156	146	153	140	128	133	133	122	128
20	141	137	140	157	155	156	132	128	131	133	127	130
21	144	138	141	159	156	158	136	117	128	131	119	128
22	145	136	142	158	157	157	119	115	117	132	119	127
23	145	141	143	158	155	157	118	114	117	135	127	130
24	149	140	144	157	156	157	121	114	118	138	118	133
25	149	147	148	157	155	156	123	113	118	140	130	134
26	149	145	148	156	155	156	121	116	118	142	133	137
27	149	142	147	158	155	156	120	115	118	145	135	142
28	149	146	148	158	155	158	124	119	122	145	137	143
29	147	144	146	163	155	160	123	119	122	146	138	143
30	146	142	145	162	156	160	124	118	122	147	140	142
31	---	---	---	162	153	157	124	120	122	---	---	---
MONTH	152	136	145	163	141	152	178	113	141	147	117	127
YEAR	185	89	142									

03400800 MARTINS FORK NEAR SMITH, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.2	7.0	7.7	7.6	7.4	7.3	7.2	7.1	7.1	7.0	7.0	6.9
2	7.3	7.0	7.6	7.5	7.5	7.3	7.2	7.1	7.1	6.9	7.0	6.9
3	7.4	7.0	7.6	7.5	7.4	7.2	7.2	7.1	7.1	6.9	7.1	6.9
4	7.3	7.1	7.6	7.3	7.4	7.3	7.1	7.0	7.1	6.9	7.0	6.9
5	7.3	7.1	7.6	7.3	7.5	7.3	7.1	6.9	7.1	6.9	7.1	6.9
6	7.3	7.1	7.6	7.3	7.5	7.4	7.1	6.9	7.1	6.9	7.1	6.9
7	7.4	7.3	7.6	7.2	7.5	7.4	7.0	6.8	7.2	6.9	7.0	6.8
8	7.5	7.3	7.5	7.2	7.6	7.5	7.0	6.8	7.2	6.9	7.1	6.8
9	7.5	7.4	7.4	7.1	7.6	7.4	7.1	7.0	7.1	7.0	7.2	7.1
10	7.5	7.5	7.5	7.5	7.6	7.3	7.1	6.9	7.1	7.0	7.2	7.0
11	7.5	7.2	7.6	7.4	7.7	7.4	7.1	6.8	7.1	7.0	7.2	7.0
12	7.5	7.1	7.5	7.1	7.7	7.4	7.1	6.8	7.1	7.0	7.2	7.0
13	7.4	7.1	7.6	7.2	7.7	7.4	7.1	6.8	7.1	7.0	7.2	7.1
14	7.4	7.1	7.7	7.5	7.7	7.5	7.1	6.8	7.1	6.9	7.1	7.1
15	7.4	7.0	7.7	7.6	7.6	7.4	7.1	6.9	7.1	6.9	7.1	7.0
16	7.4	7.2	7.6	7.3	7.6	7.4	7.1	7.0	7.2	7.0	7.2	6.9
17	7.4	7.2	7.6	7.3	7.5	7.3	7.1	7.0	7.1	7.0	7.2	7.0
18	7.4	7.2	7.7	7.6	7.4	7.3	7.0	6.9	7.0	6.9	7.1	7.0
19	7.4	7.3	7.7	7.5	7.4	7.2	7.1	6.9	7.0	6.9	7.1	6.9
20	7.4	7.0	7.6	7.5	7.3	7.0	6.9	6.8	7.0	6.9	7.1	7.0
21	7.4	7.0	7.6	7.5	7.1	7.0	6.9	6.8	7.0	6.9	7.1	7.0
22	7.3	7.1	7.7	7.6	7.1	6.8	6.9	6.8	7.0	6.9	7.1	7.0
23	7.5	7.1	7.7	7.5	7.1	6.8	6.9	6.7	7.0	6.9	7.1	7.0
24	7.5	7.1	7.6	7.3	7.2	7.1	6.9	6.8	7.0	6.9	7.1	7.0
25	7.5	7.2	7.6	7.2	7.3	7.1	6.9	6.8	7.0	6.9	7.1	7.0
26	7.5	7.1	7.5	7.3	7.3	7.0	6.9	6.8	6.9	6.9	7.1	7.1
27	7.5	7.1	7.6	7.4	7.3	7.0	6.9	6.8	6.9	6.8	7.2	7.1
28	7.4	7.1	7.6	7.4	7.3	7.0	6.9	6.8	7.0	6.9	7.3	7.1
29	7.5	7.1	7.5	7.3	7.3	7.1	7.1	6.8	---	---	7.3	7.1
30	7.6	7.3	7.5	7.4	7.3	7.1	7.1	6.9	---	---	7.3	7.1
31	7.6	7.5	---	---	7.3	7.2	7.1	7.1	---	---	7.2	7.1
MONTH	7.6	7.0	7.7	7.1	7.7	6.8	7.2	6.7	7.2	6.8	7.3	6.8

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.2	7.0	7.0	6.8	7.3	7.1	7.0	6.7	7.2	7.0	7.1	6.9
2	7.2	7.1	7.0	6.7	7.3	7.0	6.9	6.7	7.2	7.1	7.1	6.8
3	7.2	7.1	7.0	6.7	7.3	7.0	6.8	6.7	7.2	7.0	7.1	6.8
4	7.3	7.2	7.0	6.6	7.2	7.0	6.7	6.6	7.1	6.9	7.1	6.8
5	7.2	7.2	7.0	6.6	7.2	7.1	6.8	6.6	7.1	7.0	7.1	6.8
6	7.2	7.2	7.0	6.6	7.2	7.1	6.8	6.7	7.0	6.9	7.1	6.9
7	7.4	7.2	6.9	6.6	7.2	7.1	6.7	6.5	6.9	6.8	7.1	6.9
8	7.4	7.3	6.9	6.6	7.3	7.1	6.7	6.5	6.9	6.7	7.1	6.9
9	7.4	7.3	7.0	6.7	7.3	7.2	6.6	6.5	6.9	6.8	7.1	6.9
10	7.4	7.3	7.0	6.7	7.3	7.0	6.6	6.5	6.8	6.7	7.1	6.8
11	7.4	7.3	7.0	6.6	7.3	7.0	6.7	6.5	6.8	6.7	7.0	6.8
12	7.4	7.3	7.0	6.6	7.3	7.1	6.7	6.5	6.8	6.7	7.1	6.8
13	7.4	7.2	7.0	6.6	7.3	7.1	6.7	6.5	6.9	6.7	7.1	7.0
14	7.4	7.2	7.0	6.6	7.3	7.1	6.7	6.5	7.0	6.8	7.1	6.9
15	7.3	7.2	7.0	6.8	7.3	7.1	6.7	6.5	7.0	6.9	7.1	6.9
16	7.3	7.2	7.0	6.7	7.3	7.1	6.8	6.6	---	---	7.1	6.9
17	7.3	7.2	7.0	6.6	7.3	7.1	6.7	6.7	---	---	7.0	6.8
18	7.2	7.1	7.0	6.6	7.3	7.1	6.7	6.6	---	---	7.0	6.8
19	7.2	7.1	7.0	6.6	7.2	7.1	6.7	6.6	---	---	6.9	6.8
20	7.3	7.1	7.1	6.7	7.2	7.1	6.8	6.7	---	---	7.0	6.7
21	7.2	7.1	7.1	6.7	7.2	7.0	6.9	6.7	---	---	7.0	6.5
22	7.2	7.0	7.0	6.6	7.2	7.0	6.9	6.8	---	---	7.0	6.5
23	7.2	7.0	7.2	6.9	7.2	7.0	7.0	6.8	7.1	7.1	7.0	6.5
24	7.2	7.0	7.2	6.9	7.2	6.9	7.0	6.9	7.2	7.0	7.0	6.6
25	7.1	7.0	7.3	6.9	7.1	6.8	7.0	6.8	7.2	7.0	7.1	6.9
26	7.1	6.9	7.3	7.0	7.1	6.8	7.0	6.7	7.2	7.1	7.2	7.0
27	7.1	6.9	7.3	7.0	7.0	7.0	6.8	6.7	7.1	7.0	7.3	7.2
28	7.1	6.9	7.3	7.1	7.0	7.0	6.9	6.7	7.1	6.9	7.3	7.1
29	7.0	6.9	7.3	7.1	7.0	6.8	6.9	6.8	7.1	7.0	7.4	7.2
30	7.1	6.9	7.3	7.0	7.0	6.8	7.0	6.8	7.1	7.0	7.4	7.2
31	---	---	7.3	7.1	---	---	7.0	6.9	7.1	7.0	---	---
MONTH	7.4	6.9	7.3	6.6	7.3	6.8	7.0	6.5	7.2	6.7	7.4	6.5
YEAR	7.7	6.5										

03400800 MARTINS FORK NEAR SMITH, KY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	23.4	20.2	21.3	18.1	16.3	17.1	9.1	8.1	8.4	3.7	2.9	3.2
2	23.3	20.2	21.4	17.9	16.3	17.0	8.6	7.8	8.1	4.0	3.1	3.5
3	22.7	20.4	21.4	17.8	16.5	17.0	8.2	7.5	7.9	4.3	3.0	3.5
4	22.6	20.8	21.5	17.1	16.4	16.7	8.4	7.4	7.7	4.4	3.4	3.8
5	23.0	20.3	21.3	17.3	15.5	16.3	7.9	6.9	7.5	4.8	3.6	4.1
6	20.8	19.8	20.4	17.1	15.4	16.1	7.7	6.6	7.0	5.2	3.9	4.3
7	20.4	18.7	19.6	16.7	16.2	16.3	7.9	6.7	7.1	5.2	3.8	4.4
8	19.6	18.3	18.9	16.6	16.2	16.4	7.9	6.4	7.0	4.5	4.1	4.4
9	18.9	17.5	18.3	16.5	16.3	16.4	7.9	6.5	7.0	4.6	3.7	4.0
10	19.0	17.1	17.9	16.1	15.9	16.1	7.6	6.7	7.2	5.2	3.4	4.1
11	18.5	16.8	17.4	16.0	15.0	15.7	8.4	7.2	7.6	4.8	3.6	4.2
12	18.0	16.5	17.1	15.3	14.9	15.1	8.1	6.2	6.9	5.3	4.4	4.7
13	18.0	16.8	17.2	15.1	14.8	14.9	7.6	6.0	6.8	5.7	4.2	4.7
14	17.8	16.6	17.1	14.8	13.6	14.3	7.9	6.8	7.3	5.3	4.2	4.7
15	17.6	16.6	17.0	14.4	13.1	13.7	6.8	6.4	6.6	6.3	4.9	5.3
16	17.7	16.6	17.1	13.4	13.0	13.2	6.8	6.5	6.6	5.8	4.6	5.0
17	17.8	16.9	17.2	13.3	12.1	12.9	7.2	6.1	6.8	5.8	4.4	4.9
18	17.9	16.5	17.2	12.4	11.8	12.0	6.2	5.8	6.1	5.2	4.9	5.1
19	19.0	16.4	17.4	12.0	11.1	11.6	6.0	5.3	5.7	5.7	5.0	5.3
20	19.0	17.0	17.8	11.6	10.5	11.1	5.3	5.1	5.2	5.1	5.0	5.0
21	19.0	17.4	18.1	10.5	9.5	10.1	5.1	4.5	4.8	5.1	4.9	5.0
22	18.8	17.7	18.1	10.0	9.0	9.4	4.5	3.8	4.0	5.1	4.9	5.0
23	19.2	17.7	18.2	10.1	8.8	9.3	4.2	3.7	3.8	5.0	4.8	4.9
24	19.1	17.7	18.2	9.8	8.9	9.3	4.0	3.5	3.7	4.9	4.7	4.8
25	19.4	17.8	18.4	9.2	8.8	9.0	4.0	3.5	3.7	4.7	4.4	4.6
26	19.4	17.8	18.3	9.3	8.9	9.1	4.0	3.7	3.8	4.6	3.8	4.2
27	19.3	17.8	18.3	9.6	8.7	9.0	3.8	3.6	3.7	4.1	3.8	3.9
28	19.3	17.7	18.3	9.6	8.6	8.9	4.2	3.6	3.8	4.3	3.8	4.0
29	19.2	17.1	18.0	9.7	8.6	9.0	4.3	3.5	3.8	4.6	4.1	4.3
30	18.7	16.8	17.5	9.4	8.3	8.9	3.8	3.3	3.5	5.2	4.4	4.8
31	18.5	16.4	17.2	---	---	---	3.6	3.1	3.3	5.6	5.1	5.3
MONTH	23.4	16.4	18.5	18.1	8.3	13.1	9.1	3.1	5.9	6.3	2.9	4.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	5.9	5.3	5.5	9.5	8.7	9.0	11.3	9.3	10.0	15.9	14.0	14.5
2	5.9	5.2	5.6	9.1	8.6	8.9	11.6	8.8	10.1	17.7	13.9	15.3
3	5.5	4.9	5.2	9.0	8.6	8.8	10.7	9.7	10.1	17.3	14.0	15.2
4	5.7	5.2	5.4	10.8	8.7	9.5	11.7	9.6	9.9	18.1	14.4	15.7
5	5.4	5.1	5.3	9.7	8.8	9.3	10.2	9.7	10.0	18.1	14.6	15.8
6	6.1	4.8	5.4	9.4	8.4	8.8	11.2	9.8	10.4	17.9	14.5	15.6
7	6.1	5.1	5.5	8.5	8.1	8.3	11.3	10.3	10.7	15.1	14.6	14.8
8	6.6	5.2	5.8	8.3	7.5	8.0	12.4	10.4	11.0	14.9	14.4	14.6
9	7.0	5.9	6.5	8.8	7.3	8.1	12.4	10.6	11.4	18.0	14.5	15.6
10	7.0	6.1	6.6	8.5	7.0	7.6	13.5	11.1	12.1	18.1	14.5	15.9
11	6.9	5.8	6.3	8.8	7.1	7.9	13.5	11.4	12.2	18.2	14.6	15.9
12	6.6	6.3	6.5	9.3	8.1	8.6	12.9	11.7	12.1	17.3	14.8	15.7
13	6.7	6.4	6.6	10.3	8.9	9.7	13.9	11.8	12.5	18.3	14.1	15.7
14	7.4	6.4	6.9	10.0	9.3	9.7	14.5	11.5	12.6	18.4	14.1	15.8
15	7.8	7.4	7.5	9.4	9.0	9.1	12.9	11.5	12.1	18.6	14.6	16.2
16	7.8	7.0	7.3	10.5	8.9	9.7	13.7	11.2	12.0	18.8	15.1	16.6
17	7.9	6.8	7.5	10.2	9.4	9.8	13.3	12.2	12.7	18.1	15.3	16.4
18	7.8	7.6	7.7	9.6	8.9	9.2	14.0	12.5	13.2	19.2	15.1	16.7
19	8.1	7.5	7.8	9.6	8.8	9.1	14.5	12.9	13.6	18.8	14.9	16.3
20	8.1	7.7	7.9	9.2	8.9	9.0	15.2	12.9	14.1	17.0	15.2	16.0
21	8.0	7.2	7.6	9.2	8.8	9.1	16.3	13.1	14.3	18.0	15.2	16.2
22	7.7	7.2	7.6	9.6	8.9	9.2	16.9	12.8	14.5	16.5	14.8	15.8
23	7.8	7.5	7.6	10.5	8.9	9.5	17.6	13.2	14.9	16.9	14.7	15.8
24	8.6	7.6	8.1	10.3	8.9	9.5	15.1	13.3	13.9	19.0	16.5	17.4
25	9.6	8.2	8.9	9.7	9.0	9.3	16.5	12.5	14.2	19.5	17.9	18.5
26	9.2	8.4	8.6	10.1	9.3	9.7	16.6	12.3	14.2	19.2	18.2	18.6
27	9.2	8.3	8.7	9.8	9.0	9.4	16.9	12.5	14.5	19.1	18.4	18.7
28	8.9	8.2	8.7	10.6	8.9	9.6	17.3	13.1	14.8	19.8	18.7	19.1
29	---	---	---	10.2	9.2	9.4	17.3	12.6	14.7	19.9	18.9	19.3
30	---	---	---	10.4	9.3	9.6	17.2	13.3	14.9	20.8	18.5	19.4
31	---	---	---	10.4	9.3	9.8	---	---	---	19.7	18.5	19.1
MONTH	9.6	4.8	7.0	10.8	7.0	9.1	17.6	8.8	12.6	20.8	13.9	16.5

03400800 MARTINS FORK NEAR SMITH, KY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.5	18.1	18.9	23.4	20.3	21.5	27.0	25.9	26.3	25.6	24.1	24.6
2	19.6	17.8	18.5	23.4	20.2	21.4	27.1	26.2	26.5	26.1	23.7	24.6
3	21.5	17.7	19.0	24.2	20.2	21.7	26.8	24.8	26.1	25.0	23.9	24.3
4	21.3	18.1	19.2	24.4	20.4	22.2	26.1	24.7	25.1	26.6	23.9	24.8
5	20.1	18.9	19.4	23.8	20.4	22.0	27.3	24.7	25.6	26.8	23.9	24.9
6	20.9	19.5	20.1	24.2	20.3	21.6	27.5	24.7	25.6	27.0	23.8	25.0
7	20.5	19.9	20.2	22.6	20.0	21.0	27.5	24.7	25.6	26.3	23.9	24.9
8	21.6	20.2	20.7	24.8	20.4	21.5	27.6	24.7	25.6	26.8	23.6	24.8
9	21.6	20.0	20.6	23.2	20.5	21.3	27.7	24.8	25.7	26.6	23.9	24.9
10	22.0	20.0	20.8	24.5	20.8	22.0	26.9	24.7	25.4	25.1	23.7	24.3
11	22.0	20.3	21.0	24.5	20.8	22.2	27.3	24.8	25.5	26.4	23.4	24.4
12	22.4	20.6	21.3	24.4	20.4	21.9	26.2	24.9	25.3	26.4	23.1	24.3
13	22.6	21.0	21.6	24.2	20.3	21.8	25.7	24.6	25.1	26.3	23.4	24.4
14	23.0	21.1	21.9	24.4	20.0	21.6	25.2	24.9	25.0	24.3	22.5	23.6
15	23.3	21.5	22.2	24.8	20.1	21.8	26.1	24.9	25.3	25.4	22.1	23.3
16	23.0	21.7	22.3	24.7	20.5	21.9	26.8	25.3	25.7	25.2	22.3	23.3
17	24.1	21.8	22.6	24.4	20.6	21.9	26.6	25.0	25.6	25.0	22.5	23.3
18	25.2	22.0	23.1	22.0	21.0	21.5	25.8	25.0	25.3	25.2	22.6	23.5
19	23.9	20.3	22.2	23.6	21.1	21.8	26.8	25.0	25.6	23.5	22.7	23.0
20	23.9	19.8	21.1	24.9	21.3	22.8	26.3	24.9	25.4	24.2	22.6	23.3
21	24.1	20.0	21.4	26.9	23.3	24.5	26.3	23.5	24.9	24.8	22.4	23.2
22	22.1	20.1	20.7	26.3	23.5	24.5	25.9	23.4	24.2	24.1	22.6	23.1
23	23.0	19.7	20.8	27.3	23.8	25.0	26.7	23.2	24.2	25.0	22.5	23.3
24	23.4	19.6	20.9	27.7	23.9	25.2	26.4	23.8	24.6	23.1	21.7	22.4
25	23.0	19.8	20.7	26.4	24.1	24.8	26.7	23.7	24.8	22.6	21.0	21.7
26	22.5	19.7	20.8	25.4	24.5	24.8	26.5	23.9	24.8	23.0	20.6	21.4
27	23.9	20.1	21.4	25.6	24.0	24.7	---	---	---	22.8	20.4	21.2
28	24.3	20.2	21.6	24.9	24.0	24.3	---	---	---	21.9	20.7	21.1
29	24.1	20.3	21.4	25.1	24.1	24.4	26.4	23.7	24.7	21.6	20.4	20.9
30	23.5	20.0	21.5	26.3	23.8	25.1	26.0	23.8	24.5	21.5	20.3	20.7
31	---	---	---	26.6	25.7	26.0	25.0	23.9	24.5	---	---	---
MONTH	25.2	17.7	20.9	27.7	20.0	22.9	27.7	23.2	25.3	27.0	20.3	23.4
YEAR	27.7	2.9	14.9									

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.8	6.8	7.2	9.2	8.7	9.0	12.1	11.7	12.0	12.8	12.4	12.6
2	8.0	7.0	7.5	9.5	8.4	9.0	12.3	11.9	12.1	12.6	12.2	12.4
3	7.9	6.9	7.4	8.9	8.4	8.6	12.5	12.1	12.2	12.7	12.4	12.5
4	7.9	7.2	7.6	9.4	8.6	9.0	12.4	11.7	12.1	12.8	12.4	12.6
5	7.9	7.3	7.7	9.4	8.8	9.0	12.1	11.7	11.9	12.5	12.2	12.4
6	7.9	7.2	7.5	9.2	8.7	8.9	12.3	11.9	12.1	12.8	12.4	12.6
7	8.3	7.4	8.0	9.2	8.5	8.8	12.2	11.8	12.0	13.1	12.7	12.9
8	8.5	7.4	8.1	9.1	8.4	8.7	12.2	11.8	12.0	12.7	12.2	12.5
9	8.3	7.6	8.0	9.1	8.4	8.8	12.4	11.7	12.1	13.3	12.4	12.8
10	8.4	7.7	8.0	9.2	8.7	8.9	12.2	11.6	12.0	13.4	12.6	12.9
11	8.7	7.8	8.4	9.4	8.9	9.1	11.8	11.3	11.6	12.9	12.7	12.8
12	9.1	8.6	8.8	9.4	8.9	9.0	12.5	11.1	11.9	13.1	12.5	12.8
13	8.8	8.0	8.6	9.5	9.0	9.2	12.5	11.3	11.9	12.7	12.3	12.5
14	8.7	8.0	8.4	9.5	8.9	9.1	11.8	11.4	11.5	12.6	12.3	12.5
15	8.7	8.0	8.3	9.4	8.9	9.1	11.9	11.6	11.7	12.4	12.0	12.2
16	8.6	8.0	8.3	9.7	9.4	9.6	11.8	11.3	11.5	12.4	12.0	12.2
17	8.5	8.0	8.3	9.9	9.5	9.7	11.8	11.1	11.4	12.5	12.1	12.3
18	8.4	8.1	8.2	9.8	9.2	9.6	11.8	11.5	11.7	12.5	12.1	12.2
19	8.6	8.2	8.3	10.2	9.5	9.8	11.9	11.6	11.8	12.2	11.4	11.9
20	8.9	8.2	8.6	10.5	9.8	10.2	12.1	11.9	12.0	12.3	12.0	12.1
21	8.6	8.3	8.4	11.1	10.1	10.7	12.3	12.1	12.2	12.4	12.1	12.3
22	8.8	8.4	8.5	11.3	10.7	11.1	13.0	12.3	12.8	12.5	12.2	12.3
23	8.8	8.3	8.5	11.2	10.9	11.0	13.1	12.7	12.9	12.5	12.2	12.4
24	8.7	8.3	8.5	11.5	11.0	11.2	13.1	12.8	12.9	12.8	12.4	12.5
25	8.7	8.3	8.5	11.6	10.9	11.2	13.0	12.7	12.9	12.9	12.3	12.6
26	8.8	8.3	8.5	11.3	10.8	11.1	12.9	12.6	12.7	12.8	12.5	12.6
27	8.8	8.3	8.5	11.6	11.1	11.3	12.7	12.6	12.6	12.9	12.7	12.8
28	8.9	8.3	8.5	11.6	11.2	11.4	12.6	11.9	12.2	12.8	12.4	12.7
29	8.9	8.5	8.7	11.8	11.3	11.5	12.2	11.9	12.0	12.8	12.5	12.7
30	9.0	8.6	8.8	11.9	11.3	11.7	12.5	12.2	12.4	13.0	12.3	12.5
31	9.2	8.7	9.0	---	---	---	12.7	12.5	12.6	13.2	12.4	13.0
MONTH	9.2	6.8	8.2	11.9	8.4	9.8	13.1	11.1	12.1	13.4	11.4	12.5

03400800 MARTINS FORK NEAR SMITH, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.6	12.2	12.4	11.1	10.7	10.9	11.2	10.6	10.8	9.4	8.7	9.1
2	13.2	12.5	12.9	10.9	10.5	10.8	11.0	10.3	10.7	9.6	8.8	9.1
3	12.9	12.4	12.7	10.7	10.4	10.6	11.5	10.3	10.9	9.9	8.8	9.3
4	12.7	12.4	12.6	10.6	10.2	10.4	11.7	11.0	11.4	9.8	9.0	9.3
5	13.3	12.5	12.7	10.6	10.4	10.5	11.7	11.0	11.4	9.9	8.8	9.3
6	12.9	12.5	12.7	10.8	10.5	10.7	11.3	10.7	11.0	9.5	8.7	9.1
7	12.8	12.4	12.6	10.8	10.6	10.7	11.4	10.9	11.2	9.7	9.0	9.3
8	12.7	12.2	12.5	10.9	10.4	10.6	11.4	10.8	11.1	9.8	9.1	9.4
9	12.3	11.6	12.1	10.9	10.4	10.7	11.4	10.7	11.0	9.6	9.0	9.3
10	12.0	11.4	11.7	11.1	10.7	10.9	10.9	10.3	10.7	9.5	8.9	9.2
11	12.1	11.7	11.9	11.2	10.7	10.9	10.9	10.3	10.6	9.5	9.0	9.3
12	12.0	11.7	11.9	11.2	10.6	10.8	10.9	10.3	10.6	10.2	8.9	9.3
13	12.0	11.5	11.8	10.9	10.3	10.6	10.7	10.1	10.4	9.1	8.8	9.0
14	12.0	11.4	11.8	10.7	10.3	10.6	10.7	10.0	10.3	9.2	8.8	9.0
15	11.5	11.2	11.4	10.7	10.5	10.6	10.6	10.0	10.3	9.3	8.8	9.0
16	11.5	11.2	11.4	10.7	10.5	10.6	10.8	10.2	10.4	9.3	8.9	9.1
17	11.6	11.3	11.5	10.8	10.5	10.7	10.6	10.1	10.4	10.0	8.7	9.2
18	11.5	11.3	11.4	11.0	10.7	10.8	10.7	10.2	10.5	9.8	9.1	9.4
19	11.5	11.3	11.4	11.1	10.9	11.0	10.6	10.1	10.4	9.9	9.4	9.6
20	11.4	11.3	11.4	11.1	10.8	11.0	10.5	9.6	10.1	10.0	9.3	9.6
21	11.6	11.3	11.5	11.2	10.7	10.9	10.3	9.6	9.9	9.8	9.1	9.4
22	11.7	11.4	11.5	11.1	10.7	10.8	10.1	9.1	9.8	9.7	9.0	9.3
23	11.6	11.4	11.5	11.2	10.6	10.9	10.0	9.5	9.8	10.2	9.4	9.8
24	11.6	11.1	11.3	11.0	10.7	10.9	10.4	9.5	9.9	10.1	9.4	9.7
25	11.2	10.8	11.0	11.2	10.8	11.0	10.2	9.7	10.0	9.8	9.0	9.4
26	11.2	10.9	11.1	11.3	10.9	11.1	10.0	9.7	9.8	9.9	9.0	9.5
27	11.2	10.8	11.0	11.3	11.1	11.2	9.9	9.5	9.7	9.8	9.1	9.5
28	11.1	10.8	10.9	11.5	10.9	11.2	9.9	9.2	9.6	9.4	8.9	9.1
29	---	---	---	11.4	11.0	11.3	9.9	8.9	9.4	9.3	8.9	9.1
30	---	---	---	11.4	10.9	11.3	9.9	8.9	9.3	9.4	8.9	9.1
31	---	---	---	11.4	10.8	11.1	---	---	---	9.1	8.7	8.9
MONTH	13.3	10.8	11.8	11.5	10.2	10.8	11.7	8.9	10.4	10.2	8.7	9.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.9	8.3	8.7	9.2	7.6	8.3	9.5	8.9	9.2	7.2	6.5	6.8
2	8.7	8.1	8.4	9.1	7.9	8.5	9.1	8.8	8.9	7.5	6.6	6.9
3	8.8	8.1	8.5	9.0	8.2	8.5	9.2	7.9	8.8	7.2	6.4	6.8
4	8.8	8.4	8.6	8.2	7.0	7.5	8.1	7.7	7.9	7.2	6.4	6.7
5	10.5	8.6	9.4	8.5	7.2	7.6	8.0	7.6	7.8	6.9	6.4	6.7
6	10.5	8.8	10.1	8.8	8.2	8.5	7.8	7.4	7.6	7.2	6.3	6.7
7	10.6	9.4	10.2	8.9	7.7	8.3	8.1	7.5	7.7	6.9	6.2	6.5
8	10.6	9.0	9.5	8.2	7.6	7.8	7.9	7.3	7.6	6.9	6.4	6.6
9	10.1	9.5	9.8	8.3	7.6	7.9	7.8	7.2	7.4	7.0	6.4	6.7
10	10.8	9.9	10.2	8.2	7.5	7.8	7.5	7.1	7.3	6.9	6.3	6.5
11	10.4	9.9	10.3	8.4	7.6	7.9	7.4	6.9	7.1	6.9	6.1	6.5
12	10.6	9.8	10.3	8.6	7.8	8.2	7.5	6.9	7.2	7.0	6.2	6.6
13	10.1	9.5	9.8	8.3	7.8	8.0	8.8	6.9	7.8	6.9	6.4	6.6
14	10.1	9.6	9.8	8.4	7.9	8.1	9.3	7.8	8.7	6.9	6.3	6.6
15	10.0	9.6	9.9	8.3	7.9	8.1	8.6	7.6	8.2	6.8	6.3	6.5
16	10.7	9.9	10.3	8.1	7.6	7.9	8.0	7.5	7.7	6.6	6.3	6.4
17	10.8	10.0	10.5	7.8	7.4	7.7	8.0	7.7	7.8	6.5	6.2	6.4
18	10.4	9.5	10.0	7.6	7.1	7.3	---	---	---	6.3	6.1	6.2
19	9.7	8.3	9.2	7.5	7.1	7.2	---	---	---	7.5	6.0	7.0
20	9.8	8.9	9.3	7.5	6.8	7.2	---	---	---	7.6	6.5	6.8
21	9.7	8.1	8.8	7.4	6.8	7.1	---	---	---	---	---	---
22	9.4	8.1	8.6	7.7	6.9	7.3	---	---	---	---	---	---
23	9.4	8.4	8.9	7.7	7.0	7.4	7.5	7.0	7.2	---	---	---
24	9.2	7.4	8.4	8.1	7.3	7.7	7.7	6.9	7.2	7.2	6.7	7.0
25	8.5	7.2	7.7	8.2	7.5	7.8	7.8	6.8	7.2	7.6	6.8	7.3
26	8.3	7.2	7.7	8.3	7.3	7.8	7.7	6.6	7.1	7.8	7.2	7.5
27	8.6	7.2	7.9	8.2	7.4	7.8	7.3	6.7	6.9	8.0	7.3	7.7
28	8.3	7.1	7.6	8.0	7.4	7.7	7.1	6.2	6.7	8.1	7.8	7.9
29	8.6	7.4	7.9	7.8	7.2	7.5	7.0	6.2	6.5	8.1	7.9	8.0
30	9.1	8.0	8.5	8.8	7.1	7.8	6.9	6.3	6.5	8.1	8.0	8.0
31	---	---	---	9.5	8.4	8.8	7.5	6.2	6.8	---	---	---
MONTH	10.8	7.1	9.2	9.5	6.8	7.8	9.5	6.2	7.6	8.1	6.0	6.9
YEAR	13.4	6.0	9.8									

03401000 CUMBERLAND RIVER NEAR HARLAN, KY

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

DRAINAGE AREA.--374 mi^2.

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

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

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

REMARKS.--Records good except for those estimated, which are poor. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning November 1978.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,000 ft^3/s, Feb. 17, gage height, 11.61 ft; minimum discharge, 42 ft^3/s, Oct. 20, gage height, 1.03 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	61	71	e140	358	1010	692	383	360	167	467	265
2	65	61	72	e135	336	891	787	413	416	166	387	260
3	64	64	79	e130	345	724	1550	363	382	152	346	205
4	70	61	77	e120	337	726	1810	409	381	321	1750	179
5	73	63	65	e115	336	871	1370	399	616	561	792	156
6	86	63	56	e108	275	881	1100	360	607	330	494	141
7	86	66	55	e98	250	734	906	1370	656	255	348	129
8	78	77	55	e92	234	672	796	779	625	221	284	121
9	71	e220	54	e90	225	642	721	610	562	572	254	110
10	69	e400	56	e88	343	568	663	505	444	448	233	107
11	68	241	57	e86	315	540	538	439	373	321	280	101
12	67	195	58	e84	296	505	498	421	329	251	754	94
13	91	174	60	e80	309	604	641	373	300	207	1600	93
14	98	160	579	e79	356	668	640	322	277	182	1210	90
15	100	98	435	e78	1190	e900	605	296	483	163	880	86
16	99	91	439	e78	3090	e1700	569	276	330	150	422	84
17	99	96	1260	e77	7170	e1550	e640	284	271	137	349	83
18	99	88	832	e76	2290	e1200	e600	291	238	130	280	80
19	76	83	630	3690	1440	e900	559	251	194	190	258	79
20	62	80	505	3420	1170	732	530	284	183	166	244	177
21	62	77	e420	1420	1100	937	425	301	176	150	219	144
22	62	72	e360	1010	1850	1490	391	2930	349	141	185	103
23	72	74	e290	925	1920	2060	373	2870	504	135	163	89
24	64	76	e250	821	1440	1470	364	1360	297	125	183	672
25	61	83	e200	712	1500	1160	346	1080	230	115	178	530
26	65	84	e190	540	1540	965	327	735	297	161	152	286
27	73	81	e180	447	1320	831	312	622	256	241	147	209
28	83	79	e170	405	1140	774	299	569	209	337	148	187
29	73	80	e160	385	---	736	283	521	190	1040	136	170
30	68	76	e150	448	---	772	261	428	179	1130	159	157
31	64	---	e145	398	---	715	---	346	---	657	201	---
TOTAL	2337	3224	8010	16375	32475	28928	19596	20590	10714	9322	13503	5187
MEAN	75.4	107	258	528	1160	933	653	664	357	301	436	173
MAX	100	400	1260	3690	7170	2060	1810	2930	656	1130	1750	672
MIN	61	61	54	76	225	505	261	251	176	115	136	79
CFSM	.20	.29	.69	1.41	3.10	2.50	1.75	1.78	.95	.80	1.16	.46
IN.	.23	.32	.80	1.63	3.23	2.88	1.95	2.05	1.07	.93	1.34	.52

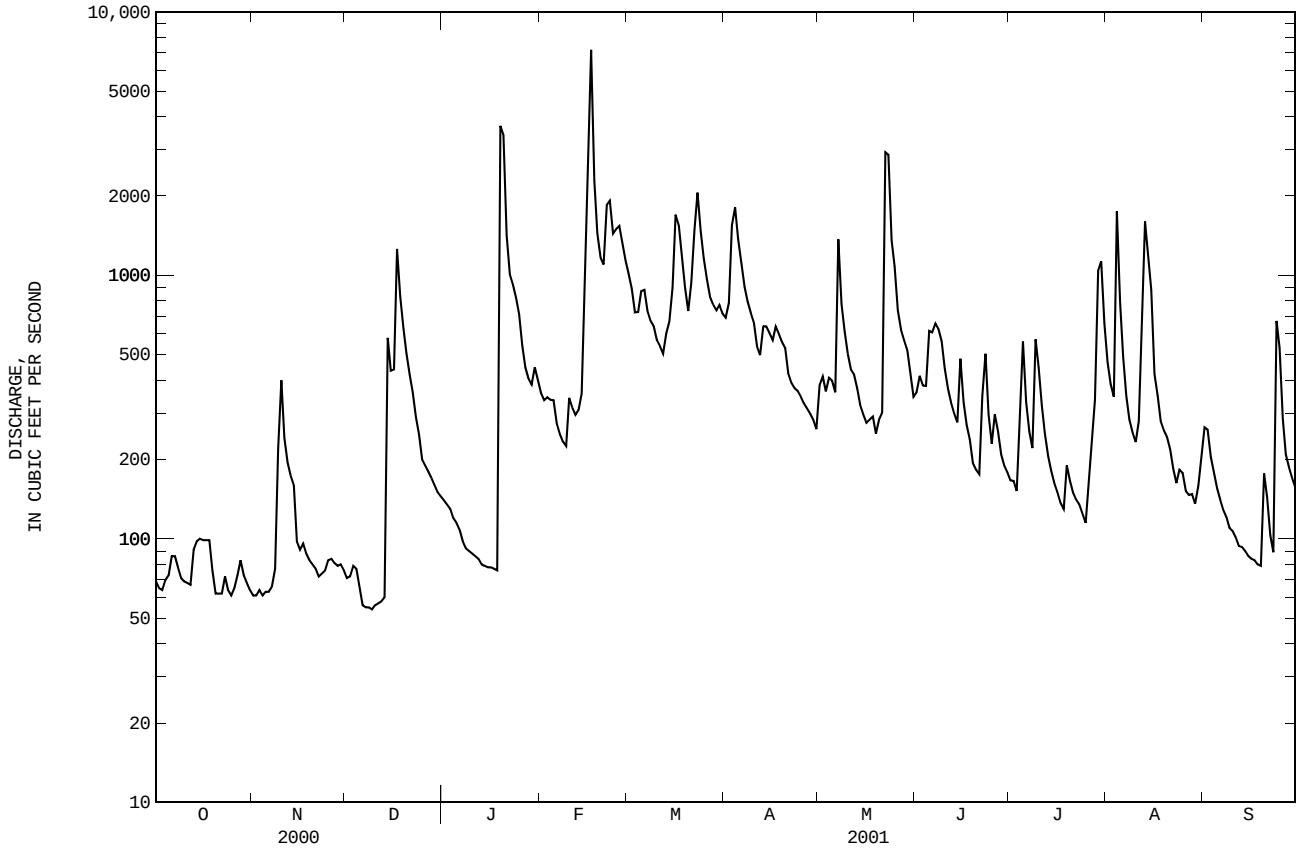
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2001, BY WATER YEAR (WY)

MEAN	190	467	816	996	1278	1295	1019	845	457	241	217	161
MAX	1129	1532	2704	1783	3259	2684	2986	2003	1789	453	534	864
(WY)	1990	1997	1992	1994	1994	1994	1998	1984	1989	1991	1996	1989
MIN	30.0	51.1	88.9	63.5	554	334	211	330	96.1	57.3	52.7	38.3
(WY)	1998	1999	1981	1981	1988	1988	1986	1982	1988	1988	1988	1999

03401000 CUMBERLAND RIVER NEAR HARLAN, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1980 - 2001	
ANNUAL TOTAL	154092		170261			
ANNUAL MEAN	421		466		662	
HIGHEST ANNUAL MEAN					1130	1994
LOWEST ANNUAL MEAN					333	1988
HIGHEST DAILY MEAN	8700	Apr 4	7170	Feb 17	19600	May 7 1984
LOWEST DAILY MEAN	54	Dec 9	54	Dec 9	16	Oct 9 1997
ANNUAL SEVEN-DAY MINIMUM	56	Dec 6	56	Dec 6	17	Oct 4 1997
MAXIMUM PEAK FLOW			11000	Feb 17	64500	Apr 5 1977
MAXIMUM PEAK STAGE			11.61	Feb 17	30.20	Apr 5 1977
INSTANTANEOUS LOW FLOW					3.0	Oct 9 1953
ANNUAL RUNOFF (CFSM)	1.13		1.25		1.77	
ANNUAL RUNOFF (INCHES)	15.33		16.94		24.05	
10 PERCENT EXCEEDS	927		1100		1500	
50 PERCENT EXCEEDS	279		283		360	
90 PERCENT EXCEEDS	72		73		66	

e Estimated



03402000 YELLOW CREEK NEAR MIDDLESBORO, KY

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

DRAINAGE AREA.--60.6 mi^2. See WRD-KY-98-1 for history of changes.

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

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

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

REMARKS.--Flows affected by channelization work above gage during the current year. Records good except for those estimated, which are poor. Occasional regulation from Fern Lake.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 16	2330	*3,290	*12.61	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	4.5	8.6	e13	44	137	80	39	26	16	52	26
2	5.3	4.4	7.7	e13	39	119	70	36	37	14	39	21
3	4.2	4.8	16	e12	34	100	221	33	23	13	42	45
4	4.6	6.1	19	e12	32	119	251	31	62	83	81	33
5	4.0	7.2	12	e12	31	132	185	29	105	62	46	24
6	5.7	7.5	11	e11	e27	103	151	27	55	32	33	19
7	6.6	7.7	13	e11	e27	87	126	29	41	21	26	17
8	7.2	12	11	e11	28	80	106	30	39	18	35	16
9	6.4	76	10	e10	29	74	93	29	31	101	25	16
10	5.5	61	11	e10	69	66	85	27	26	45	28	14
11	5.0	14	11	e9.9	47	64	76	26	23	26	40	13
12	13	9.6	13	e9.8	42	63	71	27	20	20	79	13
13	4.7	8.9	19	e9.7	39	103	225	23	19	17	584	13
14	5.0	8.4	233	e9.6	117	78	221	21	19	15	130	13
15	4.7	7.2	45	e9.5	481	160	203	20	18	14	73	13
16	4.0	7.5	93	e9.4	1320	214	158	20	18	12	49	12
17	4.2	15	341	e9.4	1640	169	129	19	16	11	36	11
18	5.1	11	80	e16	441	136	111	18	14	9.9	30	11
19	6.3	8.4	50	1080	253	108	96	18	13	10	28	12
20	7.1	7.6	32	440	180	93	87	20	13	15	26	54
21	9.2	7.6	26	147	160	136	81	19	13	21	23	16
22	11	7.6	22	94	377	139	73	80	33	53	21	11
23	12	7.3	18	69	303	131	66	42	52	20	19	10
24	17	7.6	e16	55	215	114	60	27	22	15	19	45
25	9.3	11	e16	44	323	92	54	25	17	12	20	29
26	25	12	e15	36	283	78	50	21	15	11	18	14
27	6.5	9.9	e15	34	215	70	46	19	14	63	18	11
28	6.2	9.1	e14	29	169	63	43	30	13	148	16	10
29	6.4	9.2	e14	28	---	68	39	25	13	532	16	10
30	7.7	10	e13	70	---	75	39	20	19	231	19	10
31	6.9	---	e13	54	---	64	---	18	---	84	19	---
TOTAL	230.8	380.1	1218.3	2378.3	6965	3235	3296	848	829	1744.9	1690	562
MEAN	7.45	12.7	39.3	76.7	249	104	110	27.4	27.6	56.3	54.5	18.7
MAX	25	76	341	1080	1640	214	251	80	105	532	584	54
MIN	4.0	4.4	7.7	9.4	27	63	39	18	13	9.9	16	10
CFSM	.12	.21	.65	1.27	4.10	1.72	1.81	.45	.46	.93	.90	.31
IN.	.14	.23	.75	1.46	4.28	1.99	2.02	.52	.51	1.07	1.04	.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2001, BY WATER YEAR (WY)

MEAN	24.4	76.6	160	208	230	252	180	118	65.8	51.2	35.6	19.4
MAX	155	416	609	551	677	610	569	539	298	345	197	109
(WY)	1978	1974	1991	1974	1991	1975	1998	1984	1989	1967	1942	1982
MIN	3.05	5.35	7.34	14.4	14.9	47.6	34.9	17.2	13.8	4.26	6.00	3.02
(WY)	1954	1941	1966	1981	1941	1988	1986	1941	1988	1944	1951	1954

03402000 YELLOW CREEK NEAR MIDDLESBORO, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1941 - 2001	
ANNUAL TOTAL	22281.0		23377.4			
ANNUAL MEAN	60.9		64.0		118	
HIGHEST ANNUAL MEAN					219	1991
LOWEST ANNUAL MEAN					49.5	1941
HIGHEST DAILY MEAN	2770	Apr 4	1640	Feb 17	7000	Apr 4 1977
LOWEST DAILY MEAN	3.6	Sep 27	4.0	Oct 5	1.2	Oct 7 1952
ANNUAL SEVEN-DAY MINIMUM	4.9	Oct 13	4.9	Oct 13	1.6	Sep 17 1955
MAXIMUM PEAK FLOW			3290	Feb 16	11700	Apr 4 1977
MAXIMUM PEAK STAGE			12.61	Feb 16	23.35	Apr 4 1977
INSTANTANEOUS LOW FLOW					.00	Sep 26 1952
ANNUAL RUNOFF (CFSM)	1.00		1.06		1.95	
ANNUAL RUNOFF (INCHES)	13.68		14.35		26.43	
10 PERCENT EXCEEDS	133		136		250	
50 PERCENT EXCEEDS	21		23		45	
90 PERCENT EXCEEDS	6.6		7.7		7.6	

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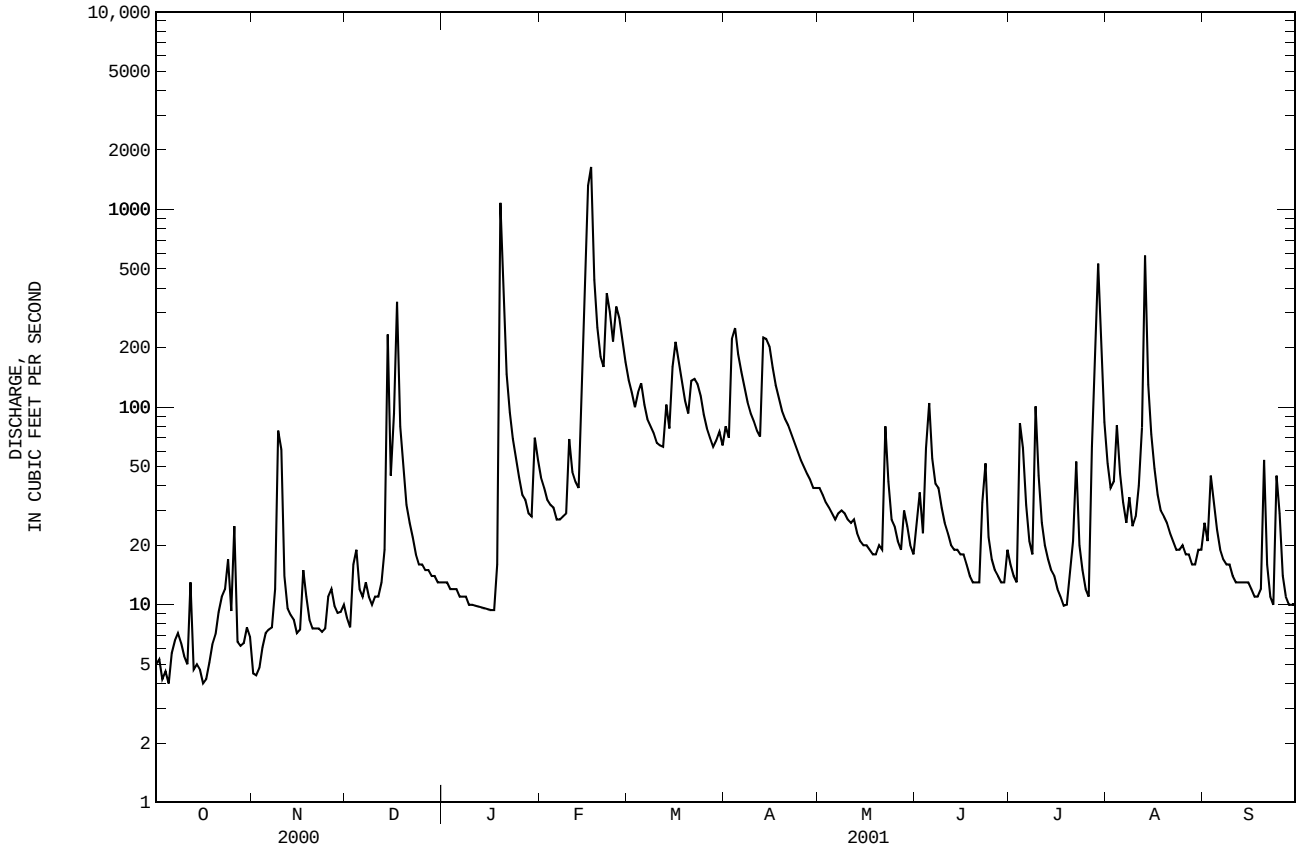

03402900 CUMBERLAND RIVER AT PINE STREET BRIDGE AT PINEVILLE, KY

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

DRAINAGE AREA.--770 mi^2.

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 970.00 ft above NGVD of 1929, Sandy Hook datum.

REMARKS.--Records good except for those estimated, which are fair. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning November 1978.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,400 ft^3/s, Feb. 17, gage height, 28.48 ft; minimum discharge, 93 ft^3/s, Nov. 4, gage height, 6.21 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111	106	127	e185	669	1970	1220	526	492	274	920	293
2	107	104	121	e175	608	1740	1420	723	635	247	676	375
3	106	103	128	e170	566	1460	2520	628	610	240	583	343
4	101	98	141	e160	567	1430	4180	615	685	501	1440	323
5	102	102	142	e155	550	1840	2920	615	1380	1180	1460	266
6	103	103	129	e150	539	1880	2280	597	1340	677	792	230
7	113	107	116	e150	469	1650	1870	1290	1140	498	556	206
8	123	118	112	e150	427	1440	1600	1290	1080	402	457	192
9	113	187	112	e149	406	1310	1420	899	946	657	404	178
10	110	594	115	e148	619	1160	1270	721	739	831	398	168
11	104	478	115	e147	699	1040	1110	625	592	560	366	161
12	104	309	117	e145	633	979	966	570	514	437	701	154
13	109	250	127	e144	598	1110	1390	529	463	362	3430	145
14	108	221	810	e142	702	1220	1720	464	427	294	2050	142
15	131	206	980	e140	3180	1490	1570	417	442	259	1410	138
16	130	165	765	e138	8170	2380	1410	391	545	236	886	133
17	133	151	2520	e137	16200	2220	1260	367	424	215	572	132
18	128	159	1850	e135	6380	1870	1200	377	365	200	491	129
19	127	146	1150	5850	3270	1600	1100	377	319	221	422	129
20	123	133	874	9110	2400	1430	1020	339	271	334	404	205
21	106	129	693	3350	2130	1680	920	406	274	265	362	294
22	96	126	576	1980	3670	2410	777	1360	377	397	319	221
23	101	123	427	1600	4520	3420	727	4750	837	290	274	172
24	103	122	e375	1390	3100	2710	695	2040	601	228	252	224
25	118	128	e325	1210	3210	2150	677	1490	420	210	268	1020
26	112	133	e280	970	3520	1770	638	1100	367	187	267	513
27	120	135	e250	788	2830	1510	612	807	412	466	244	360
28	114	132	e230	680	2340	1340	595	788	347	683	227	281
29	116	129	e200	625	---	1270	573	725	303	1610	218	251
30	118	128	e190	735	---	1310	551	608	299	3080	204	229
31	109	---	e185	786	---	1250	---	515	---	1480	232	---
TOTAL	3499	5125	14282	31794	72972	52039	40211	26949	17646	17521	21285	7607
MEAN	113	171	461	1026	2606	1679	1340	869	588	565	687	254
MAX	133	594	2520	9110	16200	3420	4180	4750	1380	3080	3430	1020
MIN	96	98	112	135	406	979	551	339	271	187	204	129
CFSM	.15	.22	.60	1.33	3.38	2.18	1.74	1.13	.76	.73	.89	.33
IN.	.17	.25	.69	1.54	3.53	2.51	1.94	1.30	.85	.85	1.03	.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2001, BY WATER YEAR (WY)

MEAN	211	698	1752	2234	2442	3112	2320	1577	827	398	439	202
MAX	670	3009	5204	4201	6720	5367	5977	3091	1640	684	923	510
(WY)	1997	1997	1992	1994	1994	1994	1998	1995	1997	1996	1996	1996
MIN	87.4	104	342	640	972	1367	817	796	251	176	107	59.7
(WY)	1999	1999	2000	2000	1999	2000	1995	1993	1999	1993	1995	1999

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

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1992 - 2001	
ANNUAL TOTAL	292789		310930			
ANNUAL MEAN	800		852		1347	
HIGHEST ANNUAL MEAN					2241	1994
LOWEST ANNUAL MEAN					792	2000
HIGHEST DAILY MEAN	19700	Apr 4	16200	Feb 17	30800	Dec 3 1991
LOWEST DAILY MEAN	96	Oct 22	96	Oct 22	48	Sep 20 1999
ANNUAL SEVEN-DAY MINIMUM	103	Nov 1	103	Nov 1	49	Sep 16 1999
MAXIMUM PEAK FLOW			18400	Feb 17	38700	Feb 11 1994
MAXIMUM PEAK STAGE			28.48	Feb 17	43.67	Feb 11 1994
INSTANTANEOUS LOW FLOW					47	Sep 20 1999
ANNUAL RUNOFF (CFSM)	1.04		1.11		1.75	
ANNUAL RUNOFF (INCHES)	14.15		15.02		23.76	
10 PERCENT EXCEEDS	1930		1870		2980	
50 PERCENT EXCEEDS	444		427		639	
90 PERCENT EXCEEDS	115		118		115	

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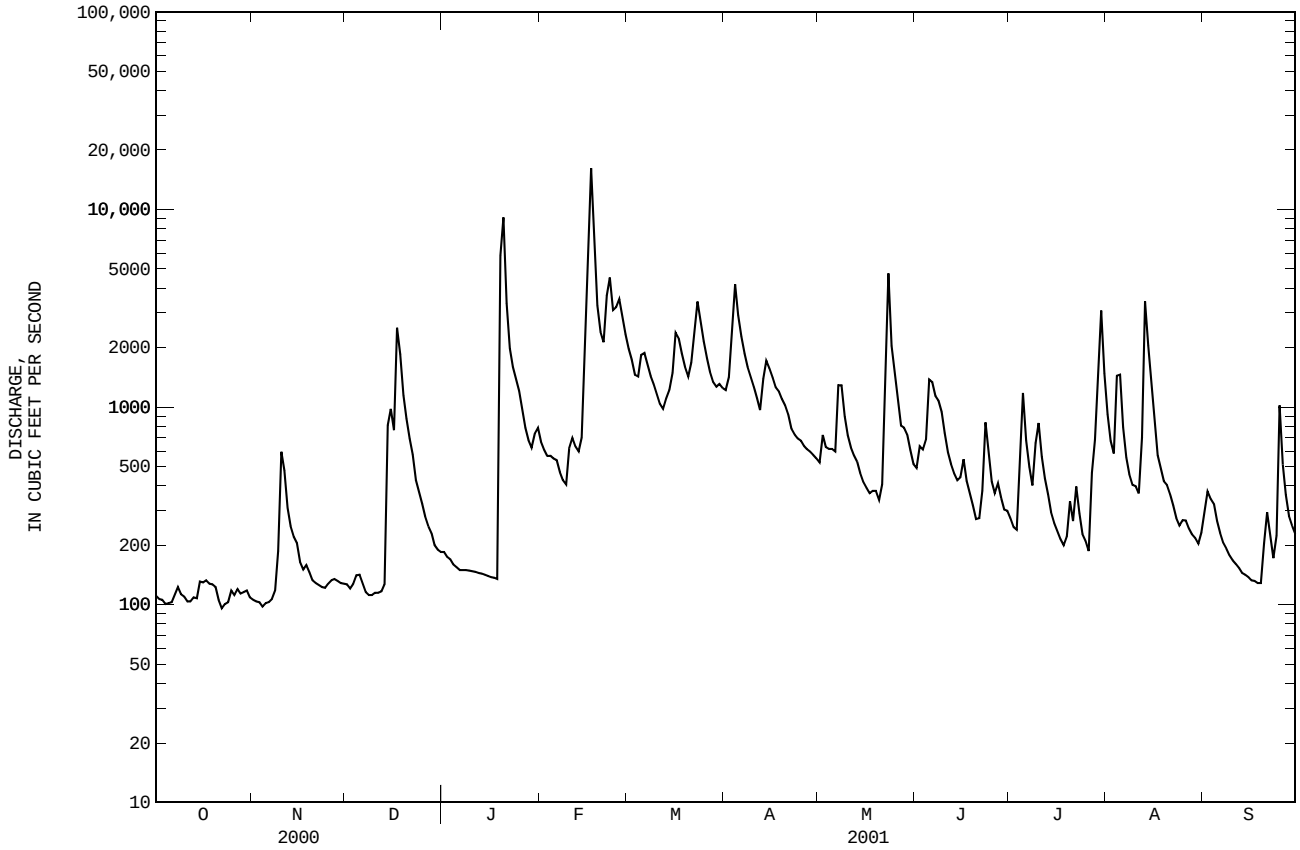


03403500 CUMBERLAND RIVER AT BARBOURVILLE, KY

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

DRAINAGE AREA.-960 mi^2.

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

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

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

REMARKS.--Records fair except for those estimated, which are poor. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning November 1978. Diversions by City of Barbourville for municipal water supply.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,000 ft^3/s, Feb. 17, gage height, 27.32 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	94	119	e215	840	2430	1400	441	526	339	1210	268
2	94	91	118	e205	735	2100	1580	520	696	306	870	316
3	91	87	119	e190	669	1820	2160	619	817	282	749	365
4	88	86	124	e180	635	1700	5010	496	821	451	779	319
5	83	86	131	e175	616	2410	3960	565	1680	2340	2000	288
6	88	88	133	e170	596	2640	2890	530	1830	1330	1010	250
7	96	88	123	e165	513	2270	2330	951	1560	707	705	219
8	108	90	112	e160	448	1890	1950	1790	1490	503	516	200
9	113	111	108	e155	407	1660	1700	1100	1420	1130	436	187
10	107	394	107	e150	645	1470	1500	874	1100	1360	454	179
11	99	514	107	e145	942	1280	1350	710	837	877	402	171
12	94	320	109	e140	856	1170	1140	633	669	605	575	163
13	93	249	125	e135	774	1220	1320	568	552	446	3250	155
14	94	220	777	e130	792	1390	2000	484	482	355	2770	150
15	97	198	1230	e130	2990	1550	1820	411	440	305	1680	149
16	106	179	929	e125	7960	2670	1720	373	608	278	1200	145
17	107	147	3200	e125	18300	2770	1480	340	489	248	760	138
18	107	144	3100	e210	16600	2320	1420	309	403	229	596	135
19	107	142	1470	4250	7850	1980	1290	344	340	223	469	129
20	107	132	1090	14600	3350	1750	1180	324	305	301	428	148
21	100	126	807	8640	2550	1870	1090	312	285	349	393	247
22	86	123	662	2990	3240	2670	913	675	331	341	333	262
23	78	119	514	1970	5660	3530	805	4160	848	381	304	192
24	77	116	392	1710	4190	3390	741	2550	863	278	277	182
25	78	114	e350	1460	3630	2640	703	1730	565	243	268	782
26	92	116	e320	1210	4560	2170	646	1380	496	226	272	701
27	94	119	e300	998	3760	1840	594	999	452	441	269	407
28	98	123	e280	826	2970	1580	545	925	423	694	247	302
29	95	120	e260	716	---	1450	507	922	341	1450	229	260
30	97	117	e240	769	---	1470	461	771	400	3510	221	238
31	99	---	e230	966	---	1450	---	624	---	2140	210	---
TOTAL	2977	4653	17686	44010	97078	62550	46205	27430	22069	22668	23882	7647
MEAN	96.0	155	571	1420	3467	2018	1540	885	736	731	770	255
MAX	113	514	3200	14600	18300	3530	5010	4160	1830	3510	3250	782
MIN	77	86	107	125	407	1170	461	309	285	223	210	129
CFSM	.10	.16	.59	1.48	3.61	2.10	1.60	.92	.77	.76	.80	.27
IN.	.12	.18	.69	1.71	3.76	2.42	1.79	1.06	.86	.88	.93	.30

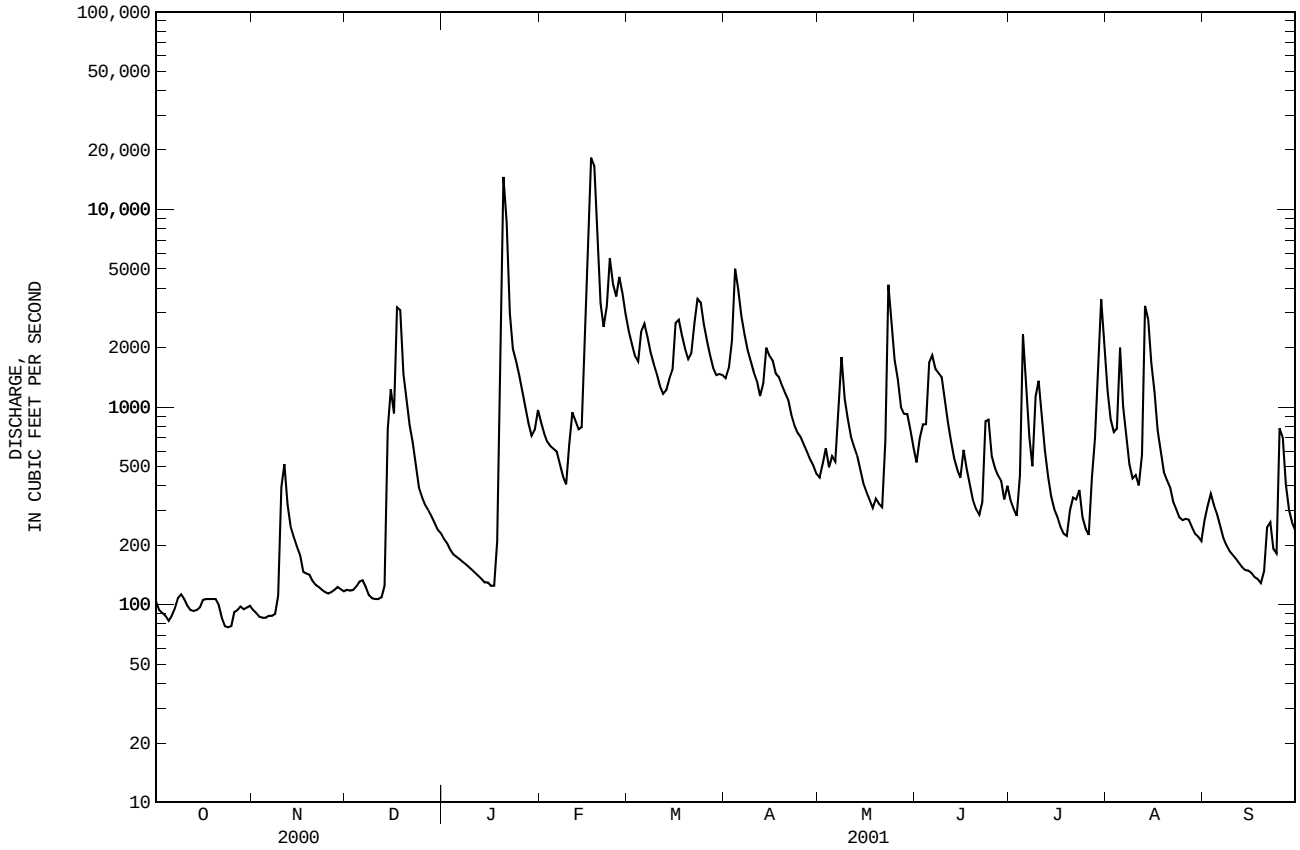
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2001, BY WATER YEAR (WY)

MEAN	447	1197	2084	2520	3056	3253	2598	2064	1195	548	455	396
MAX	3058	3816	5837	5582	5776	6208	8578	6782	5524	1071	1005	1894
(WY)	1990	1997	1992	1982	1991	1997	1998	1984	1989	1989	1996	1989
MIN	87.9	117	193	135	1220	791	549	635	201	141	124	60.5
(WY)	1981	1999	1981	1981	1999	1988	1986	1986	1988	1988	1999	1999

03403500 CUMBERLAND RIVER AT BARBOURVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1980 - 2001	
ANNUAL TOTAL	340906		378855			
ANNUAL MEAN	931		1038		1642	
HIGHEST ANNUAL MEAN					2417	1989
LOWEST ANNUAL MEAN					824	1988
HIGHEST DAILY MEAN	22000	Apr 4	18300	Feb 17	41600	May 8 1984
LOWEST DAILY MEAN	77	Oct 24	77	Oct 24	50	Sep 19 1999
ANNUAL SEVEN-DAY MINIMUM	86	Oct 22	86	Oct 22	53	Sep 16 1999
MAXIMUM PEAK FLOW			21000	Feb 17	56100	Apr 6 1977
MAXIMUM PEAK STAGE			27.32	Feb 17	45.91	Apr 6 1977
INSTANTANEOUS LOW FLOW					.20	Oct 5 1930
ANNUAL RUNOFF (CFSM)	.97		1.08		1.71	
ANNUAL RUNOFF (INCHES)	13.21		14.68		23.24	
10 PERCENT EXCEEDS	2220		2420		3720	
50 PERCENT EXCEEDS	446		469		832	
90 PERCENT EXCEEDS	103		107		124	

e Estimated



03403910 CLEAR FORK AT SAXTON, KY

LOCATION.--Lat 36°38'02",long 84°06'42", Whitley County, Hydrologic Unit 05130101, on State Highway 1804 bridge, at Saxton, 100 ft upstream from CSX Railroad bridge, 150 ft downstream from unnamed stream. 7.2 mi southeast of Williamsburg, and at mile 12.2.

DRAINAGE AREA.--331 mi^2.

PERIOD OF RECORD.--July 1968 to September 1990, October 1995 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 921.83 ft above NGVD of 1929.

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

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 19	2200	5,090	17.71	Jul 29	2400	5,250	18.01
Feb 16	2300	*6,660	*20.47				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	e5.9	14	e28	179	493	294	173	80	111	401	108
2	7.6	e5.4	13	e28	151	419	327	198	100	97	270	115
3	6.2	e5.3	15	e27	131	364	429	142	92	79	338	133
4	5.4	e5.2	17	e26	119	377	749	122	90	81	1030	192
5	5.2	e5.0	18	e26	114	618	657	110	187	252	522	127
6	6.6	e5.1	18	e25	107	630	555	112	157	178	328	99
7	5.9	e4.9	18	e25	101	539	474	270	208	149	236	83
8	5.7	e5.2	18	e24	91	457	406	247	224	105	187	72
9	5.3	e8.4	17	e24	84	398	353	201	187	242	182	63
10	4.7	65	17	e23	143	339	316	166	135	342	684	59
11	e4.8	46	17	e23	213	299	282	147	103	177	339	55
12	e4.7	29	18	e22	190	272	254	142	84	126	444	52
13	e4.7	19	19	e22	173	326	683	124	71	95	1740	47
14	e4.5	20	149	e21	234	319	1140	105	88	77	753	47
15	e4.3	15	150	e21	2540	427	878	94	83	65	349	45
16	e4.3	14	127	e20	4550	866	804	86	78	57	236	43
17	e4.5	14	679	e20	4790	733	636	79	66	52	180	41
18	e5.4	13	332	e40	2170	588	524	72	52	48	143	39
19	e6.3	14	164	2220	1080	484	434	66	46	50	125	40
20	e6.7	14	95	2970	752	459	377	116	41	54	134	94
21	e7.0	12	61	851	595	666	333	88	39	65	111	110
22	e7.2	15	e48	446	853	974	289	237	152	283	92	69
23	e7.0	12	e40	299	1000	911	255	278	593	257	83	55
24	e7.0	11	e37	232	765	721	231	163	252	113	75	59
25	e7.9	12	e35	186	821	567	211	142	166	108	74	94
26	e6.8	14	e34	132	934	456	189	113	182	99	72	77
27	e6.1	15	e33	139	755	380	178	92	137	147	74	59
28	e7.1	16	e32	102	614	326	160	97	174	721	78	51
29	e7.4	16	e31	106	---	304	144	137	124	2130	66	44
30	e6.7	15	e30	142	---	325	134	100	108	2880	117	40
31	e7.1	---	e29	206	---	294	---	82	---	768	156	---
TOTAL	188.2	451.4	2325	8476	24249	15331	12696	4301	4099	10008	9619	2212
MEAN	6.07	15.0	75.0	273	866	495	423	139	137	323	310	73.7
MAX	8.1	65	679	2970	4790	974	1140	278	593	2880	1740	192
MIN	4.3	4.9	13	20	84	272	134	66	39	48	66	39
CFSM	.02	.05	.23	.83	2.62	1.49	1.28	.42	.41	.98	.94	.22
IN.	.02	.05	.26	.95	2.73	1.72	1.43	.48	.46	1.12	1.08	.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2001, BY WATER YEAR (WY)

MEAN	169	434	623	896	915	1016	823	663	397	198	179	126
MAX	1472	1624	1824	2534	1418	3356	2193	2087	1923	659	557	707
(WY)	1990	1974	1973	1974	1990	1975	1998	1984	1989	1971	1985	1989
MIN	6.07	15.0	53.7	41.0	353	300	147	122	31.1	44.0	34.3	16.0
(WY)	2001	2001	1981	1981	1977	1988	1986	1985	1988	1970	1997	2000

03403910 CLEAR FORK AT SAXTON, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1968 - 2001	
ANNUAL TOTAL	88022.9		93955.6			
ANNUAL MEAN	240		257		535	
HIGHEST ANNUAL MEAN					894	1973
LOWEST ANNUAL MEAN					233	1988
HIGHEST DAILY MEAN	9470	Apr 4	4790	Feb 17	19400	May 28 1973
LOWEST DAILY MEAN	4.3	Oct 15	4.3	Oct 15	3.3	Aug 19 1988
ANNUAL SEVEN-DAY MINIMUM	4.5	Oct 11	4.5	Oct 11	4.5	Oct 11 2000
MAXIMUM PEAK FLOW			6660	Feb 16	22800	Apr 5 1977
MAXIMUM PEAK STAGE			20.47	Feb 16	41.51	Apr 5 1977
ANNUAL RUNOFF (CFSM)	.73		.78		1.62	
ANNUAL RUNOFF (INCHES)	9.89		10.56		21.98	
10 PERCENT EXCEEDS	635		644		1140	
50 PERCENT EXCEEDS	64		108		243	
90 PERCENT EXCEEDS	7.5		7.5		34	

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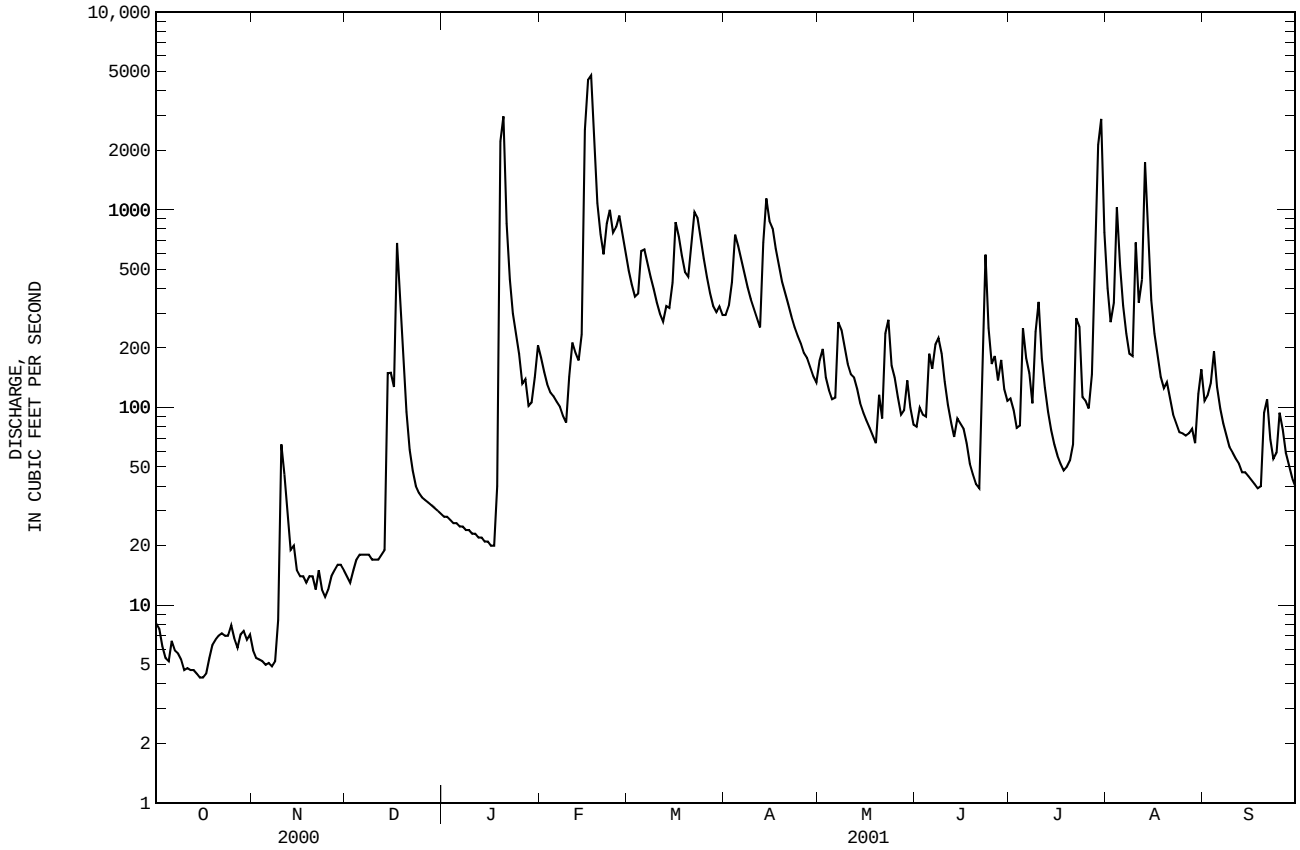


03404000 CUMBERLAND RIVER AT WILLIAMSBURG, KY

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

DRAINAGE AREA.--1,607 mi^2.

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

REVISED RECORDS.--WSP 1436: Drainage area.

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

REMARKS.--Records good except for those estimated, which are poor. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning November 1978.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,600 ft^3/s, Feb. 17, gage height, 21.97 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	134	146	e360	1310	3930	1990	725	751	548	2600	397
2	144	135	142	e340	1140	3250	2030	795	720	504	1580	422
3	130	128	144	e330	1010	2840	2440	782	852	441	1370	489
4	120	123	142	e320	925	2540	4830	822	962	402	2150	632
5	116	121	141	e310	886	3190	6440	722	1240	1340	2100	549
6	112	119	149	e300	865	4080	4860	743	2160	3060	2210	468
7	110	116	158	e290	829	3810	3800	901	2370	1570	1330	403
8	116	126	155	e290	752	3180	3120	1600	2040	884	963	358
9	118	150	142	e280	689	2680	2620	1840	1880	718	770	325
10	129	205	131	e270	755	2330	2290	1300	1700	1860	1230	297
11	127	508	126	e270	1150	2040	2030	1070	1250	1920	1080	285
12	119	630	125	e260	1330	1820	1810	1010	952	1170	1100	268
13	113	426	144	e250	1220	1770	1850	867	786	779	3390	250
14	109	323	428	e240	1200	1920	3200	769	681	598	5850	239
15	109	283	1710	e235	4110	2070	3210	682	645	485	3140	232
16	112	257	1760	e230	11400	3270	2970	602	604	413	2000	221
17	121	240	3020	e225	20600	4250	2580	551	692	366	1490	207
18	137	205	5020	e220	20700	3830	2240	511	594	333	1020	200
19	147	185	3230	3050	17400	3200	2040	475	484	320	813	200
20	140	183	1800	13800	9650	2820	1840	514	428	310	698	236
21	136	175	1280	14300	4420	2980	1690	517	384	381	632	322
22	135	159	997	8480	4210	4010	1530	551	398	520	566	343
23	128	150	759	3490	6680	4860	1320	1850	932	870	496	379
24	115	144	e600	2530	7020	5300	1190	4560	1210	610	454	333
25	104	143	e540	2110	5540	4410	1100	2510	1020	459	414	331
26	103	135	e500	1780	6310	3510	1020	1790	919	424	417	800
27	110	143	e470	1460	6140	2890	939	1400	787	763	395	758
28	122	149	e440	1240	4900	2440	867	1080	683	1160	396	500
29	126	151	e410	1050	---	2150	810	1090	647	2670	382	379
30	133	150	e390	1010	---	2050	756	1030	525	6750	377	307
31	134	---	e370	1200	---	2040	---	865	---	4960	493	---
TOTAL	3842	6096	25569	60520	143141	95460	69412	34524	29296	37588	41906	11130
MEAN	124	203	825	1952	5112	3079	2314	1114	977	1213	1352	371
MAX	167	630	5020	14300	20700	5300	6440	4560	2370	6750	5850	800
MIN	103	116	125	220	689	1770	756	475	384	310	377	200
CFSM	.08	.13	.51	1.21	3.18	1.92	1.44	.69	.61	.75	.84	.23
IN.	.09	.14	.59	1.40	3.31	2.21	1.61	.80	.68	.87	.97	.26

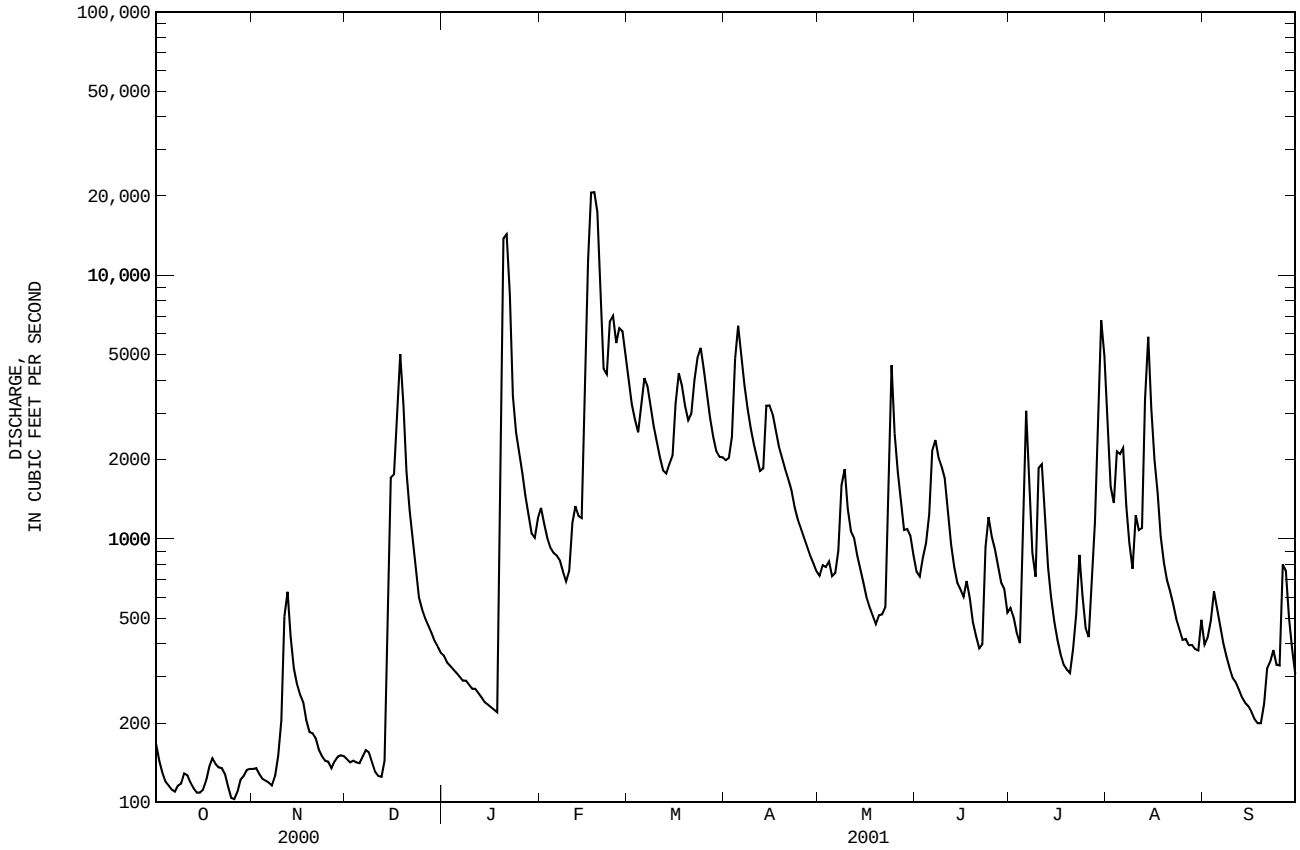
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2001, BY WATER YEAR (WY)

MEAN	621	1628	3184	4017	4966	5201	3921	3125	1807	785	715	593
MAX	4413	4923	9751	8015	12920	10400	11520	9572	8305	1684	1429	3280
(WY)	1990	1997	1992	1994	1994	1994	1998	1984	1989	1989	1985	1989
MIN	107	141	300	203	1803	1193	730	943	277	211	213	86.2
(WY)	1981	1999	1981	1981	1988	1988	1986	1986	1988	1988	1999	1999

03404000 CUMBERLAND RIVER AT WILLIAMSBURG, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1980 - 2001	
ANNUAL TOTAL	496261		558484			
ANNUAL MEAN	1356		1530		2535	
HIGHEST ANNUAL MEAN					4390	1994
LOWEST ANNUAL MEAN					1159	1988
HIGHEST DAILY MEAN	22600	Apr 5	20700	Feb 18	38500	Feb 13 1994
LOWEST DAILY MEAN	103	Oct 26	103	Oct 26	62	Oct 18 1980
ANNUAL SEVEN-DAY MINIMUM	115	Oct 23	115	Oct 23	63	Oct 17 1980
MAXIMUM PEAK FLOW			22600	Feb 17	49700	Jan 31 1957
MAXIMUM PEAK STAGE			21.97	Feb 17	35.03	Apr 7 1977
INSTANTANEOUS LOW FLOW					6.1	Oct 23 1953
ANNUAL RUNOFF (CFSM)	.84		.95		1.58	
ANNUAL RUNOFF (INCHES)	11.49		12.93		21.43	
10 PERCENT EXCEEDS	3410		3500		5840	
50 PERCENT EXCEEDS	640		743		1200	
90 PERCENT EXCEEDS	132		135		191	

e Estimated



03404900 LYNN CAMP CREEK AT CORBIN, KY

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

DRAINAGE AREA.--53.8 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 1,049.00 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records good except for discharges below 2.0 ft^3/s, which are fair and for those estimated, which are poor.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)

No peak greater than base discharge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	.80	3.2	e18	35	82	74	21	14	7.6	21	6.8
2	.96	.86	3.0	e17	31	74	62	40	18	6.8	13	6.4
3	.75	.74	4.5	e17	28	65	238	19	36	5.9	149	10
4	.65	.90	6.6	e16	25	108	207	15	115	168	80	6.3
5	.66	.84	e4.9	e16	24	222	127	14	90	360	39	2.7
6	9.4	1.0	e4.6	e15	24	134	99	15	52	39	23	2.5
7	4.5	1.1	e4.8	e15	23	99	81	35	30	17	15	4.5
8	3.6	5.2	5.1	e14	22	81	69	26	22	12	8.8	7.3
9	2.7	37	5.9	e14	26	69	60	21	16	34	6.0	5.6
10	1.8	62	5.5	e13	105	58	52	17	12	27	16	4.9
11	1.3	17	5.3	e12	61	53	46	16	9.7	11	8.9	1.9
12	1.2	8.9	6.1	e13	50	52	42	31	8.3	7.5	205	1.6
13	1.2	6.4	41	e14	44	73	68	19	7.5	5.7	45	1.2
14	.88	4.9	293	e15	65	56	53	14	8.5	5.1	21	1.3
15	.77	3.6	76	e16	539	134	44	13	9.5	3.4	13	1.0
16	.86	4.0	361	e18	766	149	40	13	15	2.6	12	.89
17	.65	7.7	612	e22	1060	98	32	11	8.4	2.7	9.1	.79
18	.94	6.4	147	e42	287	79	29	9.8	6.0	4.0	9.1	.73
19	.95	4.5	91	923	163	67	26	8.7	4.6	5.0	7.3	1.6
20	.74	3.6	66	797	113	87	25	8.3	4.1	27	5.4	8.7
21	.94	3.3	54	211	103	155	25	48	4.7	26	6.1	2.8
22	.79	3.1	e45	122	255	201	22	69	13	8.6	4.8	3.2
23	.97	2.7	e38	86	191	137	21	32	16	14	4.7	2.1
24	.83	2.7	e33	69	127	104	19	33	9.1	7.6	4.3	6.6
25	.98	5.2	e29	54	294	84	18	32	7.1	4.4	3.0	5.4
26	1.0	5.1	e26	40	220	72	16	19	7.7	3.5	3.3	4.1
27	1.0	4.6	e24	e35	138	62	15	15	11	4.2	3.7	2.4
28	1.1	3.7	e22	32	104	55	14	14	21	38	5.6	1.6
29	.85	3.5	e21	29	---	52	13	14	9.5	276	7.1	1.1
30	.93	3.5	e20	56	---	52	13	12	9.6	154	5.4	1.0
31	.79	---	e19	45	---	56	---	11	---	43	4.3	---
TOTAL	46.09	214.84	2077.5	2806	4923	2870	1650	665.8	595.3	1330.6	758.9	107.01
MEAN	1.49	7.16	67.0	90.5	176	92.6	55.0	21.5	19.8	42.9	24.5	3.57
MAX	9.4	62	612	923	1060	222	238	69	115	360	205	10
MIN	.65	.74	3.0	12	22	52	13	8.3	4.1	2.6	3.0	.73
CFSM	.03	.13	1.25	1.68	3.27	1.72	1.02	.40	.37	.80	.46	.07
IN.	.03	.15	1.44	1.94	3.40	1.98	1.14	.46	.41	.92	.52	.07

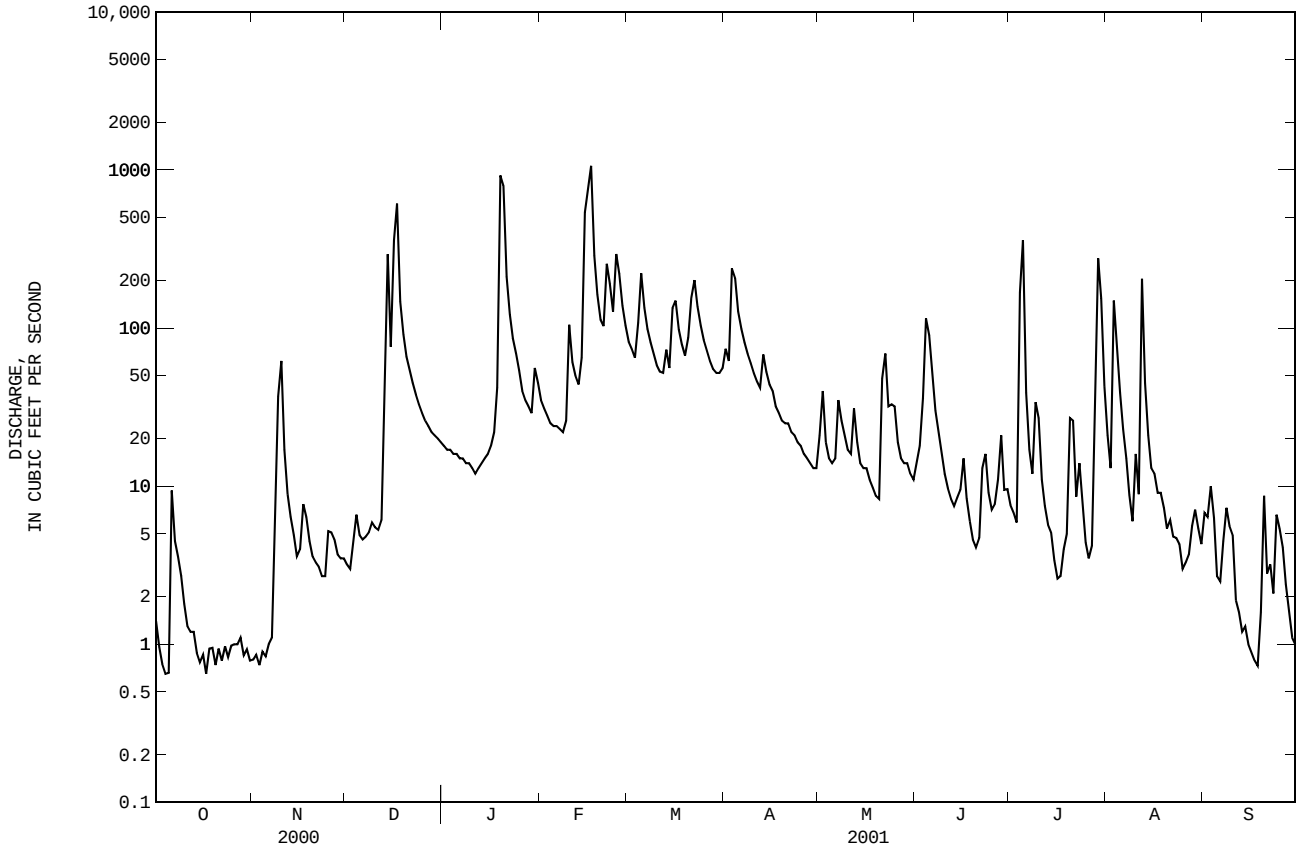
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2001, BY WATER YEAR (WY)

MEAN	28.9	80.7	114	151	153	158	111	90.9	55.7	37.4	26.4	26.3
MAX	133	267	378	372	326	458	413	387	203	110	78.4	100
(WY)	1990	1974	1991	1974	1994	1975	1998	1983	1997	1978	1979	1982
MIN	1.35	5.15	10.4	5.13	56.9	41.9	16.5	9.47	2.38	2.11	2.50	.32
(WY)	1981	1999	1981	1981	1977	1988	1986	1986	1988	1975	1976	1999

03404900 LYNN CAMP CREEK AT CORBIN, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1974 - 2001	
ANNUAL TOTAL	16774.36		18045.04			
ANNUAL MEAN	45.8		49.4		85.8	
HIGHEST ANNUAL MEAN					141	1994
LOWEST ANNUAL MEAN					36.5	1988
HIGHEST DAILY MEAN	743	Apr 4	1060	Feb 17	4530	Apr 17 1998
LOWEST DAILY MEAN	.44	Sep 20	.65	Oct 4	.02	Jun 24 1988
ANNUAL SEVEN-DAY MINIMUM	.70	Sep 18	.83	Oct 14	.02	Jun 24 1988
MAXIMUM PEAK FLOW			1430	Feb 16	9000	Jan 29 1957
MAXIMUM PEAK STAGE			7.24	Feb 16	22.50	Jan 29 1957
INSTANTANEOUS LOW FLOW					.02	Jun 24 1988
ANNUAL RUNOFF (CFSM)	.85		.92		1.60	
ANNUAL RUNOFF (INCHES)	11.60		12.48		21.67	
10 PERCENT EXCEEDS	102		114		192	
50 PERCENT EXCEEDS	22		15		35	
90 PERCENT EXCEEDS	1.0		1.2		3.2	

e Estimated



03406500 ROCKCASTLE RIVER AT BILLOWS, KY

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

DRAINAGE AREA.--604 mi^2.

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

REVISED RECORDS.--WSP 1436: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 802.90 ft above NGVD of 1929. Prior to Nov. 19, 1940, nonrecording gage at same site and datum.

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

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 17	1430	12,800	21.44	Feb 17	1130	*13,300	*21.84

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	24	36	e180	863	1240	610	150	123	67	766	42
2	29	23	34	e170	730	1020	943	211	183	75	492	54
3	25	21	36	e160	626	881	1620	203	268	66	1040	74
4	23	21	35	e150	539	767	3170	185	300	69	4020	61
5	21	21	35	e145	495	936	2080	160	766	166	1440	51
6	21	21	36	e140	451	960	1570	139	670	310	827	44
7	19	21	37	e135	401	821	1260	128	593	177	555	39
8	18	23	37	e130	355	745	1030	121	2280	124	396	34
9	18	e38	38	e125	324	683	860	118	1380	95	314	30
10	18	e110	39	e120	396	606	738	150	736	451	259	29
11	18	243	43	e120	597	540	641	138	475	284	249	28
12	18	170	47	e115	516	496	565	116	349	176	345	25
13	18	109	58	e115	493	552	531	99	274	122	402	24
14	18	82	419	e110	618	738	581	89	218	87	253	23
15	18	65	914	e105	5630	688	503	81	182	67	185	21
16	18	55	1190	e105	7400	953	462	73	456	53	150	21
17	17	49	10500	e100	12000	1060	417	66	528	45	129	20
18	17	44	3680	e130	5130	969	376	59	314	44	107	18
19	19	41	1400	1400	2520	864	345	54	217	47	96	22
20	21	37	902	6340	1740	1040	323	53	167	72	88	29
21	18	35	641	2710	1310	2890	306	99	134	98	80	32
22	20	32	e450	1550	1180	3500	290	151	114	100	74	31
23	21	31	e360	1160	1520	2610	268	385	137	91	69	26
24	35	31	e310	959	1290	1860	251	326	175	76	62	26
25	37	33	e280	830	1890	1420	232	312	134	56	53	25
26	63	33	e260	691	3360	1110	212	358	112	65	48	22
27	49	34	e240	608	2150	898	197	253	91	308	43	22
28	38	37	e220	540	1600	752	184	194	84	430	41	20
29	30	37	e210	466	---	662	171	157	79	2880	38	18
30	26	38	e200	582	---	605	158	127	70	4700	35	16
31	24	---	e190	1030	---	570	---	108	---	1450	33	---
TOTAL	771	1559	22877	21221	56124	33436	20894	4863	11609	12851	12689	927
MEAN	24.9	52.0	738	685	2004	1079	696	157	387	415	409	30.9
MAX	63	243	10500	6340	12000	3500	3170	385	2280	4700	4020	74
MIN	17	21	34	100	324	496	158	53	70	44	33	16
CFSM	.04	.09	1.22	1.13	3.32	1.79	1.15	.26	.64	.69	.68	.05
IN.	.05	.10	1.41	1.31	3.46	2.06	1.29	.30	.71	.79	.78	.06

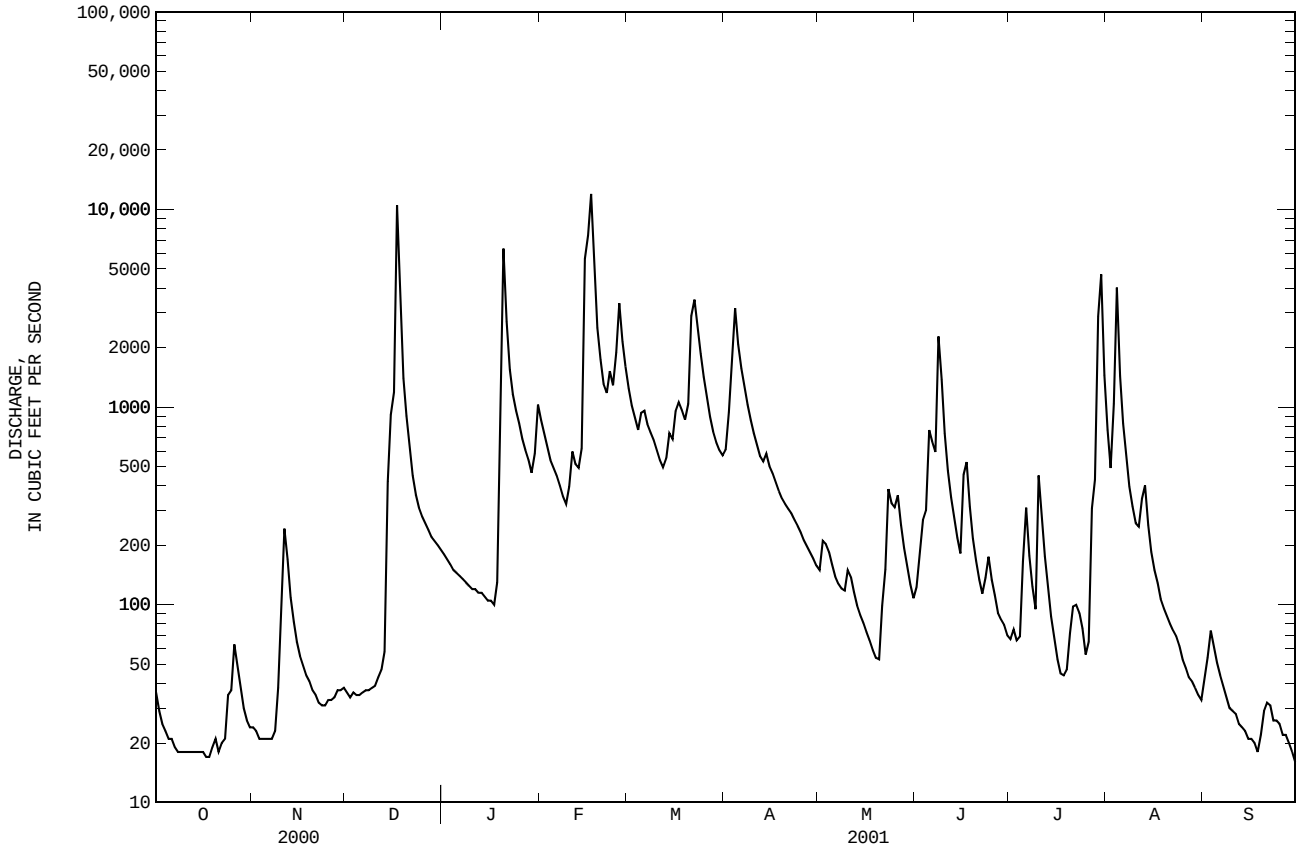
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2001, BY WATER YEAR (WY)

MEAN	193	556	1236	1677	1901	1986	1461	950	568	355	200	149
MAX	2887	2374	5279	5990	5236	5860	4051	4207	2862	1830	1263	1052
(WY)	1990	1987	1991	1937	1956	1975	1972	1983	1947	1941	1977	1974
MIN	3.18	11.5	16.5	56.9	208	507	188	115	37.9	10.8	10.1	4.95
(WY)	1954	1954	1954	1981	1941	1983	1986	1941	1988	1944	1957	1936

03406500 ROCKCASTLE RIVER AT BILLOWS, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1936 - 2001	
ANNUAL TOTAL	191861		199821			
ANNUAL MEAN	524		547		932	
HIGHEST ANNUAL MEAN					1575	1979
LOWEST ANNUAL MEAN					345	1954
HIGHEST DAILY MEAN	10500	Dec 17	12000	Feb 17	46200	Dec 9 1978
LOWEST DAILY MEAN	17	Sep 24	16	Sep 30	.90	Sep 9 1957
ANNUAL SEVEN-DAY MINIMUM	18	Oct 12	18	Oct 12	1.4	Sep 11 1964
MAXIMUM PEAK FLOW			13300	Feb 17	50000	Dec 9 1978
MAXIMUM PEAK STAGE			21.84	Feb 17	47.17	Dec 9 1978
INSTANTANEOUS LOW FLOW					.80	Sep 9 1957
ANNUAL RUNOFF (CFSM)	.87		.91		1.54	
ANNUAL RUNOFF (INCHES)	11.82		12.31		20.96	
10 PERCENT EXCEEDS	1310		1270		2120	
50 PERCENT EXCEEDS	202		151		322	
90 PERCENT EXCEEDS	25		23		24	

e Estimated



03410500 SOUTH FORK CUMBERLAND RIVER NEAR STEARNS, KY

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

DRAINAGE AREA.--954 mi^2.

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

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

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

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

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

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 22,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 20	0100	26,000	22.79	Feb 17	1000	*36,800	*27.47

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	34	103	e230	1310	2140	1020	464	255	491	851	121
2	77	35	99	e220	1090	1770	976	816	234	290	555	136
3	66	35	106	e210	937	1540	1010	830	234	248	481	140
4	60	36	105	e200	826	1470	1280	614	314	203	1080	183
5	54	41	105	e190	758	1880	1360	505	328	200	1400	238
6	47	42	105	e190	700	2310	1270	444	287	187	911	250
7	43	42	101	e180	639	1990	1190	443	309	256	606	192
8	39	55	99	e180	582	1710	1090	668	503	236	445	155
9	36	108	103	e170	542	1500	999	611	640	203	443	129
10	33	183	108	e170	760	1300	920	586	527	199	712	110
11	33	254	112	e160	1500	1140	851	515	389	195	840	96
12	32	295	115	e155	1400	1030	790	469	304	169	839	85
13	31	204	138	e150	1220	1070	1290	423	251	160	1180	76
14	31	162	1200	e150	1290	1120	5160	372	217	131	1320	69
15	31	133	1670	e145	10400	1150	3600	326	196	109	799	63
16	31	116	1970	e145	21000	1960	3800	286	265	92	531	61
17	31	113	7920	e140	30200	2320	2990	258	265	80	414	56
18	33	108	3880	e260	9650	1930	2300	233	209	72	315	51
19	35	102	1820	8630	4950	1630	1820	209	172	98	261	53
20	37	96	1160	16900	3340	1620	1510	194	144	96	220	93
21	37	88	835	5630	2540	2810	1270	182	128	108	189	95
22	35	86	643	3020	2540	3730	1090	203	153	110	167	94
23	34	88	455	2090	4460	3400	949	234	206	100	149	146
24	33	85	e410	1610	3430	2670	843	390	304	101	143	145
25	33	94	e370	1310	3440	2140	755	350	281	116	160	150
26	33	106	e340	1060	4560	1740	675	287	206	123	149	147
27	33	108	e320	907	3420	1450	603	258	165	123	131	179
28	33	100	e300	800	2670	1240	551	254	177	136	121	157
29	38	97	e280	709	---	1110	502	307	335	1410	120	129
30	36	100	e260	807	---	1070	468	294	346	3430	115	106
31	34	---	e240	1280	---	1070	---	273	---	1700	108	---
TOTAL	1241	3146	25472	47998	120154	55010	42932	12298	8344	11172	15755	3705
MEAN	40.0	105	822	1548	4291	1775	1431	397	278	360	508	124
MAX	82	295	7920	16900	30200	3730	5160	830	640	3430	1400	250
MIN	31	34	99	140	542	1030	468	182	128	72	108	51
CFSM	.04	.11	.86	1.62	4.50	1.86	1.50	.42	.29	.38	.53	.13
IN.	.05	.12	.99	1.87	4.69	2.15	1.67	.48	.33	.44	.61	.14

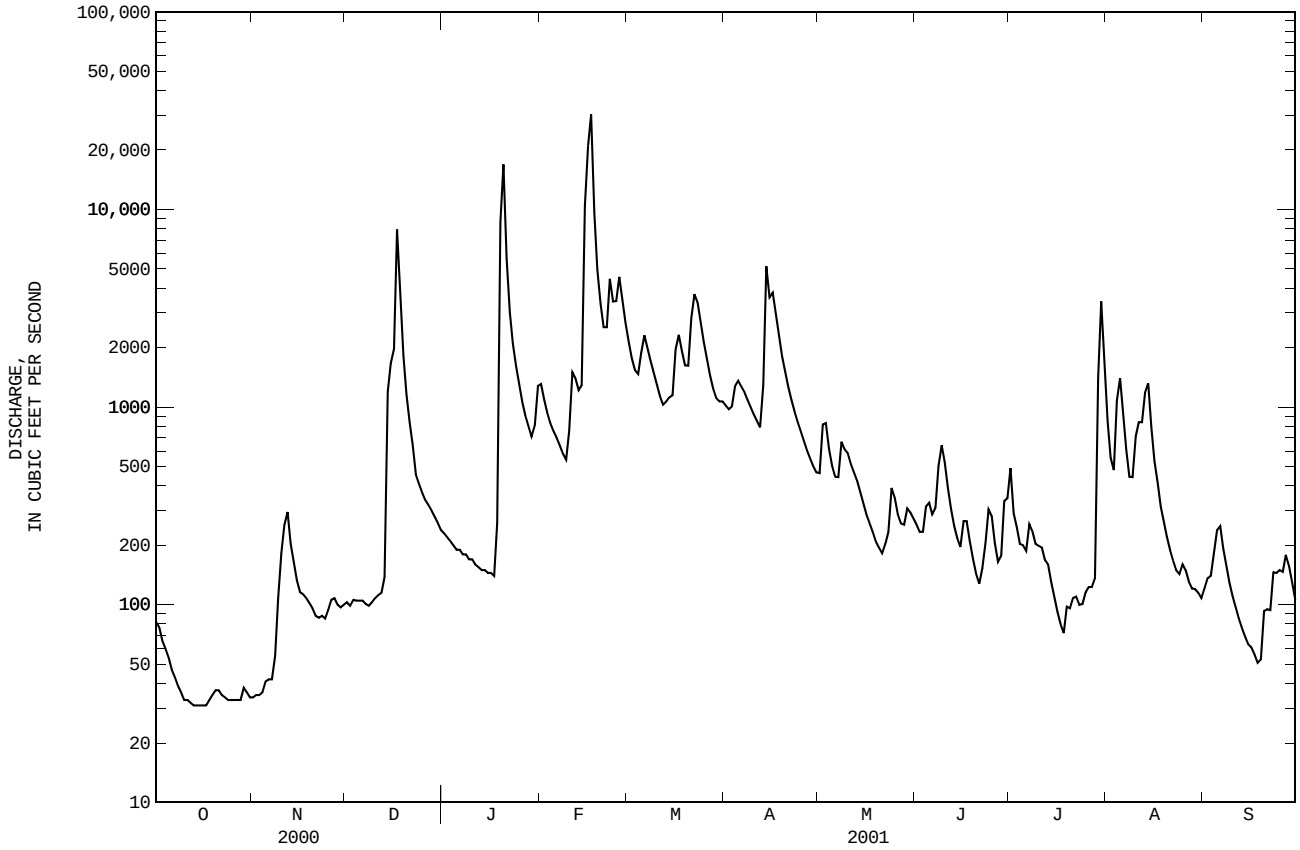
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2001, BY WATER YEAR (WY)

MEAN	379	1218	2577	3307	3507	3631	2551	1718	981	610	408	345
MAX	2553	4556	7388	9615	8747	10580	6038	6555	5152	3772	2997	2983
(WY)	1990	1958	1991	1950	1956	1975	1977	1984	1989	1967	1971	1982
MIN	20.8	30.6	150	145	725	1248	568	224	72.8	34.5	65.4	29.6
(WY)	1954	1954	1964	1981	1968	1985	1986	1948	1988	1944	1951	1953

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

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1943 - 2001	
ANNUAL TOTAL	385137		347227			
ANNUAL MEAN	1052		951		1762	
HIGHEST ANNUAL MEAN					3023	1973
LOWEST ANNUAL MEAN					810	1988
HIGHEST DAILY MEAN	27600	Apr 4	30200	Feb 17	80200	Mar 13 1975
LOWEST DAILY MEAN	30	Sep 20	31	Oct 13	11	Sep 18 1954
ANNUAL SEVEN-DAY MINIMUM	31	Oct 11	31	Oct 11	12	Sep 13 1954
MAXIMUM PEAK FLOW			36800	Feb 17	93200	May 28 1973
MAXIMUM PEAK STAGE			27.47	Feb 17	46.29	May 28 1973
INSTANTANEOUS LOW FLOW					11	Oct 4 1948
ANNUAL RUNOFF (CFSM)	1.10		1.00		1.85	
ANNUAL RUNOFF (INCHES)	15.02		13.54		25.09	
10 PERCENT EXCEEDS	2840		1980		4040	
50 PERCENT EXCEEDS	318		258		705	
90 PERCENT EXCEEDS	42		55		81	

e Estimated



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 mi^2.

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 and crest-stage gage. Datum of gage is 804.72 ft above NGVD of 1929.

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

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

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)

No peak above base discharge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	e1.5	1.7	4.0	16	59	29	9.7	8.9	19	36	5.0
2	1.5	e1.5	1.8	e3.7	14	48	29	9.9	9.9	8.6	22	5.3
3	1.5	e1.5	2.1	e3.6	12	38	85	8.9	8.2	6.4	36	5.4
4	1.5	e1.4	2.1	e3.5	12	36	85	8.3	26	6.1	56	5.4
5	1.5	e1.4	2.1	e3.4	12	84	59	8.0	18	8.5	27	5.1
6	e1.5	e1.4	2.0	e3.4	11	58	50	11	12	14	18	4.6
7	e1.5	e1.5	1.9	e3.3	10	46	43	20	22	8.2	15	4.5
8	e1.5	e1.6	1.9	e3.3	9.9	39	37	12	19	6.2	14	4.4
9	e1.5	e2.0	1.8	e3.3	10	33	32	9.7	13	5.7	15	4.3
10	e1.5	3.7	1.8	e3.3	96	27	29	8.7	10	5.3	13	4.6
11	e1.6	3.3	1.8	e3.3	43	24	25	8.0	8.7	4.7	29	4.4
12	e1.5	2.9	1.9	e3.2	29	22	23	7.5	7.7	4.2	26	4.4
13	e1.5	2.9	4.6	e3.2	24	38	60	6.9	6.8	3.9	15	4.4
14	e1.5	2.8	57	e3.2	38	34	56	6.5	6.2	3.6	12	4.3
15	e1.5	2.7	13	e3.2	584	59	44	6.3	5.8	3.5	11	4.2
16	e1.5	2.8	251	e3.2	617	82	38	6.1	5.4	3.3	9.5	4.2
17	e1.4	2.4	174	e3.1	352	58	31	5.8	4.9	3.2	8.9	4.2
18	e1.4	1.9	54	e3.1	189	48	26	5.5	4.5	3.1	8.1	4.2
19	e1.4	1.8	24	394	119	41	24	5.6	4.3	3.2	7.6	5.6
20	e1.5	1.8	14	209	85	95	21	5.6	3.9	3.3	7.2	8.1
21	e1.5	1.7	11	80	63	205	19	7.0	3.9	3.2	6.7	7.4
22	e1.5	1.7	9.1	47	126	169	16	59	4.9	2.8	6.4	5.5
23	e1.5	1.7	7.4	33	108	116	15	32	4.2	2.7	6.1	4.7
24	e1.4	1.7	6.8	26	80	88	14	14	3.8	2.6	5.8	6.5
25	e1.4	2.4	6.1	21	220	67	13	12	3.5	2.8	5.7	6.8
26	e1.5	2.5	5.7	17	142	53	12	10	7.1	3.2	5.3	5.8
27	e1.6	2.3	5.4	15	102	43	11	8.6	15	65	5.0	4.6
28	e1.6	2.0	5.1	13	77	36	11	8.1	6.5	121	4.9	4.2
29	e1.5	1.9	4.7	12	---	32	10	7.1	18	513	4.7	3.7
30	e1.5	1.8	4.4	22	---	29	9.7	6.4	31	249	4.6	3.6
31	e1.5	---	4.1	23	---	28	---	6.2	---	73	4.9	---
TOTAL	46.3	62.5	684.3	972.3	3200.9	1835	956.7	340.4	303.1	1162.3	446.4	149.4
MEAN	1.49	2.08	22.1	31.4	114	59.2	31.9	11.0	10.1	37.5	14.4	4.98
MAX	1.6	3.7	251	394	617	205	85	59	31	513	56	8.1
MIN	1.4	1.4	1.7	3.1	9.9	22	9.7	5.5	3.5	2.6	4.6	3.6
CFSM	.03	.05	.51	.72	2.63	1.36	.73	.25	.23	.86	.33	.11
IN.	.04	.05	.59	.83	2.74	1.57	.82	.29	.26	1.00	.38	.13

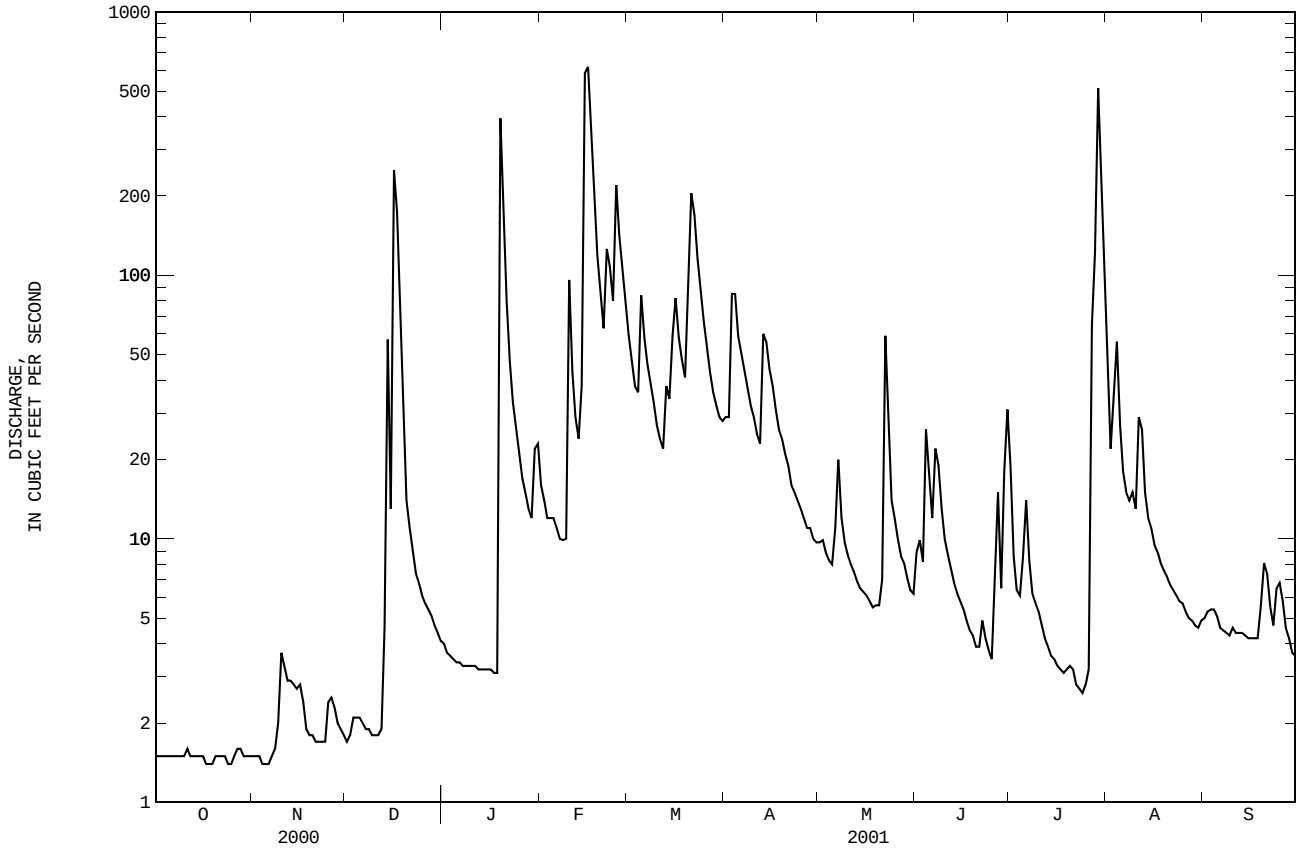
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2001, BY WATER YEAR (WY)

MEAN	18.7	24.5	73.8	92.9	110	124	78.1	43.2	39.7	11.2	8.13	5.61
MAX	164	78.6	306	155	206	299	242	114	151	37.5	25.9	27.6
(WY)	1990	1997	1991	1994	1998	1997	1998	1995	1998	2001	1996	1992
MIN	1.49	2.08	8.31	26.7	47.8	47.9	21.4	11.0	7.98	3.89	1.91	1.77
(WY)	2000	2001	1998	2000	2000	2000	1995	2001	1991	1990	1990	2000

03413200 BEAVER CREEK NEAR MONTICELLO, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1990 - 2001	
ANNUAL TOTAL	9372.1		10159.6			
ANNUAL MEAN	25.6		27.8		52.2	
HIGHEST ANNUAL MEAN					74.5	1998
LOWEST ANNUAL MEAN					24.7	2000
HIGHEST DAILY MEAN	260	Mar 20	617	Feb 16	1890	Oct 17 1989
LOWEST DAILY MEAN	1.4	Sep 29	1.4	Oct 17	1.2	Sep 6 1995
ANNUAL SEVEN-DAY MINIMUM	1.5	Oct 13	1.5	Oct 13	1.2	Oct 23 1999
MAXIMUM PEAK FLOW			1230	Feb 16	3140	Apr 17 1998
MAXIMUM PEAK STAGE			5.78	Feb 16	8.67	Apr 17 1998
INSTANTANEOUS LOW FLOW					.50	Oct 2 1968
ANNUAL RUNOFF (CFSM)	.59		.64		1.20	
ANNUAL RUNOFF (INCHES)	8.03		8.71		16.35	
10 PERCENT EXCEEDS	70		59		118	
50 PERCENT EXCEEDS	10		6.8		16	
90 PERCENT EXCEEDS	1.5		1.6		2.3	

e Estimated



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 mi^2, of which about 94 mi^2 does not contribute directly to surface runoff.

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

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

GAGE.--Water-stage recorder. Datum of gage is 391.45 ft above 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.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)

No peak greater than base discharge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e33	e23	51	61	204	627	150	65	78	77	32	34
2	e30	e21	45	57	168	562	150	66	87	85	28	32
3	e26	e22	42	54	148	501	170	60	78	51	27	33
4	e26	e23	38	52	135	481	294	58	86	47	25	30
5	27	e28	35	51	128	622	296	55	114	46	22	27
6	37	e29	34	49	124	567	251	51	95	53	19	30
7	55	e32	34	47	116	495	224	57	86	50	18	26
8	53	66	33	46	108	446	201	162	89	45	17	24
9	33	74	31	42	106	408	182	264	79	43	17	24
10	e26	167	32	42	106	373	169	163	70	41	24	38
11	e24	93	32	40	125	338	157	119	62	38	77	110
12	e23	64	32	42	121	320	148	98	58	34	115	72
13	e22	52	34	40	113	341	139	85	60	31	100	50
14	e22	44	39	40	168	388	133	75	59	28	71	40
15	e23	e33	54	38	1220	359	129	70	60	26	67	35
16	e22	e29	490	37	1900	348	133	69	56	25	52	30
17	e21	e28	e1060	37	2380	344	123	64	58	26	40	26
18	e21	e27	e432	40	1310	317	110	60	52	27	35	24
19	e20	e27	295	53	951	292	103	61	48	30	37	32
20	21	e26	231	111	776	277	100	63	48	37	35	80
21	37	e26	188	138	669	261	99	89	48	31	47	77
22	e27	26	157	127	763	247	96	218	59	28	31	53
23	e24	26	136	114	893	230	93	251	104	29	26	41
24	e23	29	120	109	713	211	93	192	65	25	26	42
25	e22	51	106	102	1110	195	101	154	50	25	24	55
26	e21	159	96	95	1220	179	89	124	45	32	26	54
27	e20	106	90	90	861	169	82	106	47	32	46	41
28	e21	78	83	85	720	158	78	95	57	38	56	36
29	e27	64	77	84	---	153	72	85	57	34	51	33
30	39	56	72	132	---	152	67	78	57	28	35	27
31	32	---	66	259	---	150	---	78	---	28	31	---
TOTAL	858	1529	4265	2314	17356	10511	4232	3235	2012	1170	1257	1256
MEAN	27.7	51.0	138	74.6	620	339	141	104	67.1	37.7	40.5	41.9
MAX	55	167	1060	259	2380	627	296	264	114	85	115	110
MIN	20	21	31	37	106	150	67	51	45	25	17	24
CFSM	.11	.21	.56	.31	2.54	1.39	.58	.43	.27	.15	.17	.17
IN.	.13	.23	.65	.35	2.65	1.60	.65	.49	.31	.18	.19	.19

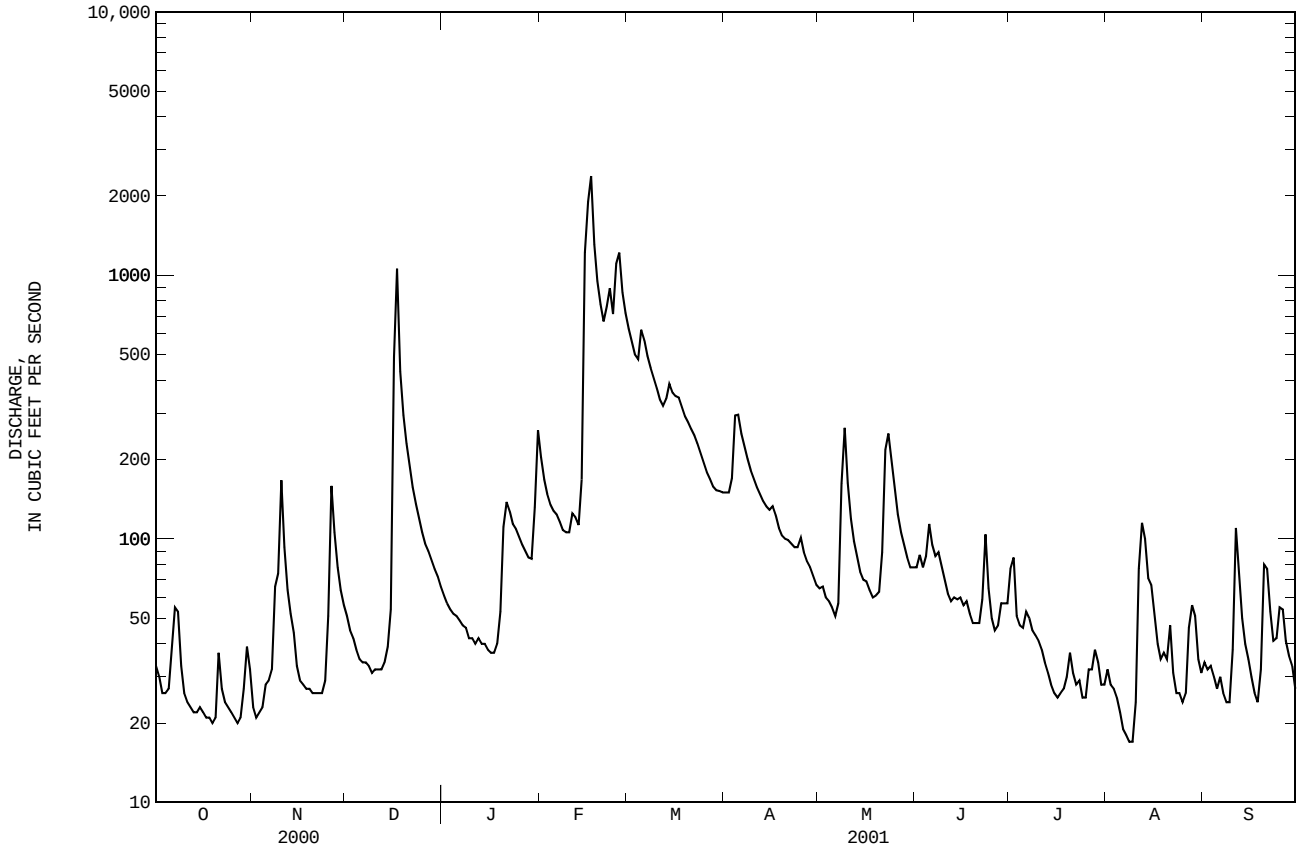
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	63.8	202	444	550	686	761	543	422	224	147	92.1	93.6
MAX	504	1677	1985	2168	2130	3653	1924	1875	1498	790	381	925
(WY)	1997	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL TOTAL	91345		49995			
ANNUAL MEAN	250		137		351	
HIGHEST ANNUAL MEAN					757	1997
LOWEST ANNUAL MEAN					58.9	1941
HIGHEST DAILY MEAN	5640	May 25	2380	Feb 17	24300	Mar 2 1997
LOWEST DAILY MEAN	20	Sep 20	17	Aug 8	3.6	Oct 3 1941
ANNUAL SEVEN-DAY MINIMUM	21	Sep 17	20	Aug 4	7.0	Oct 24 1940
MAXIMUM PEAK FLOW			2820	Feb 17	37600	Mar 1 1997
MAXIMUM PEAK STAGE			9.59	Feb 17	26.44	Mar 1 1997
INSTANTANEOUS LOW FLOW					1.0	Oct 3 1941
ANNUAL RUNOFF (CFSM)	1.02		.56		1.44	
ANNUAL RUNOFF (INCHES)	13.93		7.62		19.54	
10 PERCENT EXCEEDS	568		295		820	
50 PERCENT EXCEEDS	78		58		136	
90 PERCENT EXCEEDS	26		26		28	

e Estimated



03438220 CUMBERLAND RIVER NEAR GRAND RIVERS, KY

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to 1086, September 1995 to September 1996, November 1998 to current year.

INSTRUMENTATION.--Water-quality monitor since September 1995.

REMARKS.--Flow regulated by Barkley Dam and reservoirs above station. Periods of missing record were due to instrument malfunctions. Supersaturation of oxygen may occur due to local hydraulic conditions. Some records available from U.S. Army Corps of Engineers, Nashville District.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 948 microsiemens, 13, 1996; minimum, 163 microsiemens, July 24, 2001.
pH: Maximum, 9.7 units, , June 20, 1996; minimum, 6.0 units, Sept. 12, 1995.
WATER TEMPERATURES: Maximum, 32.4°C, July 30, 1999; minimum, 0.5°C, Feb. 6, 1995.
DISSOLVED OXYGEN: Maximum, 20.6 mg/L, Jan. 13, 2001; minimum 1.8 mg/L, August 11, 14, 2001.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 289 microsiemens, Feb. 17; minimum 163 microsiemens, July 24.
pH: Maximum, 8.8 units,several days; minimum, 6.9 units, Aug. 12.
WATER TEMPERATURES: Maximum, 30.9°C, Aug. 5, 6; minimum, 1.3°C, Jan. 2, 3.
DISSOLVED OXYGEN: Maximum, 20.6 mg/L, Jan. 13; minimum, 1.9 mg/L, Aug. 11, 14.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	222	212	216	---	---	---	212	204	207	253	246	249
2	222	216	220	228	205	212	210	203	205	254	238	250
3	222	203	216	236	218	229	224	210	219	251	229	237
4	205	194	200	238	216	228	221	214	217	251	239	245
5	204	185	196	223	213	219	231	212	221	267	248	260
6	213	190	203	243	217	229	226	210	219	268	260	266
7	200	190	193	228	212	220	216	210	214	263	249	257
8	208	200	204	244	219	229	235	212	226	249	231	242
9	214	202	208	235	204	216	233	221	228	232	226	229
10	215	193	203	235	217	227	225	216	221	230	216	226
11	201	191	196	229	208	216	224	212	219	223	208	216
12	224	195	213	219	202	211	230	219	225	234	220	227
13	232	224	228	221	210	216	227	218	222	233	219	228
14	232	213	221	214	205	209	238	218	227	232	218	226
15	227	217	220	209	201	205	240	227	235	236	226	231
16	227	211	219	215	198	202	254	228	245	234	227	230
17	218	202	211	216	205	211	257	253	256	230	227	228
18	209	200	205	214	203	208	269	254	261	228	223	226
19	207	197	202	214	201	207	270	258	266	229	211	220
20	220	197	208	232	209	217	266	254	261	226	211	218
21	212	201	207	213	201	206	260	241	252	235	221	229
22	219	203	210	206	201	203	254	234	241	239	226	232
23	219	210	215	206	200	204	243	229	235	239	230	234
24	220	196	207	207	200	203	251	228	237	236	214	229
25	201	195	199	218	202	211	247	232	241	230	214	223
26	205	198	201	224	211	218	248	223	239	226	207	218
27	205	201	204	230	219	224	243	218	231	220	202	210
28	---	---	---	226	213	219	239	217	228	206	193	197
29	---	---	---	231	220	225	240	204	218	205	190	198
30	---	---	---	224	207	214	239	224	233	---	---	---
31	---	---	---	---	---	---	246	234	240	---	---	---
MONTH	232	185	208	244	198	215	270	203	232	268	190	230

03438220 CUMBERLAND RIVER NEAR GRAND RIVERS, KY--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	243	226	236	256	224	243	238	220	232	234	218	227
2	242	222	231	248	225	236	241	221	231	225	201	213
3	242	224	232	256	232	246	241	218	231	213	193	203
4	233	210	217	256	222	238	234	211	222	203	193	198
5	246	214	231	230	216	223	243	234	241	211	197	203
6	231	216	225	231	211	220	244	241	242	201	195	198
7	238	213	224	244	216	228	242	238	241	210	188	201
8	230	217	224	242	214	228	240	226	232	214	199	206
9	242	217	232	255	221	237	241	232	238	227	203	216
10	256	232	249	247	212	230	242	228	240	215	198	209
11	267	250	259	261	228	248	238	221	230	209	196	203
12	271	240	258	261	232	252	241	220	229	218	194	205
13	268	216	237	265	234	251	245	237	242	208	181	195
14	244	215	231	263	229	248	247	220	238	203	186	196
15	281	240	262	247	211	229	245	229	241	193	174	184
16	288	275	284	235	207	220	240	220	232	205	179	191
17	289	279	286	237	202	223	246	206	229	206	181	196
18	279	249	263	252	222	239	248	211	227	204	185	193
19	250	232	239	253	207	223	244	216	232	206	193	200
20	232	227	230	235	195	214	244	214	233	206	191	197
21	231	224	229	241	210	225	234	204	226	208	190	197
22	232	224	229	253	221	238	227	191	206	217	194	205
23	241	227	235	255	234	246	237	209	227	224	200	211
24	248	235	243	253	220	237	234	213	225	238	222	228
25	250	238	246	245	214	233	224	207	219	243	238	241
26	260	248	254	242	214	231	223	202	211	244	235	242
27	264	258	261	243	217	228	233	223	228	246	238	244
28	264	252	260	236	200	219	235	231	233	247	242	245
29	---	---	---	238	200	220	236	232	234	243	235	238
30	---	---	---	244	226	236	238	231	235	244	207	231
31	---	---	---	234	207	217	---	---	---	237	176	203
MONTH	289	210	243	265	195	232	248	191	231	247	174	210

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	200	170	181	220	207	215	217	184	197	232	210	222
2	220	172	192	222	195	210	222	187	205	231	212	225
3	239	201	225	209	185	199	224	206	216	237	217	228
4	201	178	187	228	185	206	235	203	222	225	201	212
5	182	173	177	227	212	217	227	204	215	217	195	204
6	217	178	191	232	215	224	230	208	221	215	194	203
7	223	188	201	231	183	217	237	198	219	216	198	207
8	231	195	208	215	183	201	231	198	212	215	202	209
9	209	180	194	210	195	201	226	200	213	227	205	217
10	207	182	192	---	---	---	221	203	210	234	212	221
11	202	176	188	---	---	---	---	---	---	229	215	221
12	183	172	177	---	---	---	---	---	---	224	211	216
13	178	167	174	236	189	220	228	195	207	228	211	218
14	183	169	175	238	195	227	---	---	---	229	211	219
15	194	167	172	227	193	215	---	---	---	232	215	223
16	196	167	181	226	209	217	225	202	216	230	222	226
17	206	187	199	231	194	214	219	200	210	230	216	224
18	207	187	198	224	194	207	219	206	213	244	203	213
19	207	180	195	---	---	---	250	211	235	210	195	205
20	188	177	183	---	---	---	262	227	244	218	199	212
21	194	176	189	---	---	---	274	249	262	213	196	202
22	213	182	199	---	---	---	273	249	261	215	190	202
23	199	184	193	230	223	227	256	248	252	209	190	196
24	197	182	190	229	163	217	274	256	266	219	202	211
25	202	191	198	225	204	216	282	210	260	216	183	194
26	209	186	199	221	205	214	231	209	219	193	181	184
27	207	188	198	231	214	222	231	209	217	217	192	206
28	208	195	203	237	223	230	230	197	215	216	200	209
29	213	195	205	242	235	237	209	197	205	219	203	212
30	214	199	209	239	219	232	211	202	206	223	210	216
31	---	---	---	226	184	209	224	202	210	---	---	---
MONTH	239	167	192	242	163	216	282	184	223	244	181	212
YEAR	289	163	221									

03438220 CUMBERLAND RIVER NEAR GRAND RIVERS, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.2	7.7	8.0	---	---	---	8.2	8.1	8.1	7.7	7.6	7.7
2	8.2	7.7	7.9	8.1	7.8	---	8.1	8.0	8.0	7.9	7.7	7.8
3	8.1	7.7	7.8	8.1	7.8	7.9	8.3	8.1	8.2	7.9	7.7	7.8
4	8.0	7.6	7.8	7.9	7.8	7.9	8.3	7.9	8.2	7.9	7.8	7.8
5	7.8	7.4	7.7	8.1	7.7	7.9	8.3	8.1	8.2	7.9	7.9	7.9
6	7.5	7.4	7.5	8.1	7.9	7.9	8.3	8.2	8.2	8.1	7.9	8.0
7	7.5	7.4	7.4	7.9	7.8	7.8	8.5	8.1	8.3	8.0	7.9	8.0
8	7.6	7.4	7.5	7.8	7.7	7.7	8.4	8.2	8.3	8.2	8.0	8.0
9	7.6	7.5	7.6	7.8	7.7	7.7	8.5	8.4	8.4	8.3	8.1	8.2
10	7.8	7.5	7.6	7.9	7.8	7.8	8.5	8.4	8.4	8.5	8.2	8.3
11	7.6	7.4	7.5	7.9	7.8	7.8	8.6	8.3	8.4	8.4	8.3	8.4
12	8.1	7.4	7.7	7.9	7.8	7.8	8.4	8.3	8.4	8.4	8.3	8.4
13	8.1	7.8	7.9	7.9	7.8	7.8	8.5	8.3	8.4	8.6	8.3	8.5
14	8.0	7.7	7.9	7.9	7.8	7.9	8.4	8.3	8.4	8.6	8.4	8.5
15	7.7	7.5	7.6	8.0	7.8	7.9	8.6	8.4	8.5	8.5	8.4	8.5
16	7.7	7.5	7.6	7.9	7.8	7.9	8.6	8.4	8.5	8.6	8.4	8.5
17	7.6	7.5	7.6	8.0	7.9	7.9	8.7	8.6	8.6	8.7	8.5	8.6
18	7.7	7.4	7.5	8.0	7.9	7.9	8.7	8.1	8.5	8.7	8.6	8.7
19	8.0	7.4	7.6	8.0	7.9	7.9	8.4	8.1	8.1	8.7	8.6	8.6
20	8.0	7.5	7.7	8.1	8.0	8.0	8.3	8.0	8.1	8.8	8.6	8.6
21	7.9	7.6	7.7	8.1	7.9	8.0	8.0	7.9	7.9	8.7	8.6	8.6
22	8.1	7.5	7.8	8.0	7.9	8.0	8.0	7.9	7.9	8.6	8.5	8.6
23	8.1	7.7	7.9	8.0	7.9	8.0	8.0	7.8	7.9	8.6	8.4	8.5
24	8.1	7.7	7.9	8.0	7.9	8.0	7.9	7.7	7.8	8.6	8.3	8.5
25	7.8	7.6	7.7	8.1	8.0	8.0	7.8	7.7	7.8	8.6	8.3	8.4
26	7.8	7.5	7.6	8.1	8.0	8.0	7.8	7.7	7.8	8.5	8.2	8.4
27	7.7	7.5	---	8.2	8.0	8.1	7.8	7.6	7.7	8.5	8.0	8.2
28	---	---	---	8.2	8.1	8.1	7.7	7.6	7.6	8.2	8.0	8.1
29	---	---	---	8.2	8.1	8.1	7.7	7.6	7.6	8.1	8.0	---
30	8.3	8.0	---	8.2	8.1	8.1	7.7	7.6	7.7	---	---	---
31	---	---	---	---	---	---	7.7	7.6	7.6	---	---	---
MONTH	8.3	7.4	7.7	8.2	7.7	7.9	8.7	7.6	8.1	8.8	7.6	8.3

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

03438220 CUMBERLAND RIVER NEAR GRAND RIVERS, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.3	7.1	7.1	8.1	7.5	7.8	8.4	7.7	8.1	8.3	7.5	7.7
2	7.2	7.0	7.1	8.2	7.6	7.8	8.1	7.3	7.7	8.5	7.6	7.9
3	7.4	7.2	7.3	8.1	7.8	8.0	7.9	7.4	7.6	8.4	7.6	7.9
4	7.3	7.1	7.2	7.9	7.6	7.8	7.9	7.4	7.6	8.1	7.6	7.8
5	7.2	7.0	7.1	8.1	7.6	7.9	7.9	7.5	7.6	8.5	7.5	7.8
6	7.5	7.1	7.2	8.7	7.8	8.2	7.6	7.2	7.4	8.4	7.4	7.8
7	7.8	7.4	7.6	8.6	8.1	8.4	7.5	7.1	7.2	8.2	7.6	7.8
8	7.8	7.5	7.6	8.5	7.7	7.9	7.3	7.0	7.2	7.9	7.5	7.7
9	7.9	7.6	7.7	8.2	7.6	7.8	7.3	7.0	7.2	8.2	7.6	7.8
10	8.0	7.5	7.8	8.1	7.6	7.8	7.2	7.1	7.1	8.5	7.7	8.0
11	8.1	7.6	7.9	8.5	7.6	8.0	7.1	7.0	7.0	8.4	7.8	8.1
12	8.1	7.7	7.9	8.3	7.7	8.0	7.0	6.9	7.0	8.4	7.7	8.1
13	8.4	7.8	8.1	8.5	7.7	8.0	7.1	7.0	7.1	8.5	7.8	8.2
14	8.7	7.9	8.2	8.5	8.0	8.2	7.1	7.0	7.1	8.5	7.7	8.2
15	8.3	7.8	8.1	8.8	8.1	8.4	7.5	7.0	7.3	8.4	7.9	8.1
16	8.7	7.8	8.2	8.8	8.3	8.6	7.2	7.0	7.1	8.4	8.0	8.2
17	8.3	7.9	8.1	8.7	8.1	8.5	7.5	7.1	7.3	8.5	8.0	8.3
18	8.5	7.9	8.2	8.2	7.9	---	8.0	7.5	7.7	8.2	7.9	8.0
19	8.6	8.0	8.4	---	---	---	8.4	7.7	8.0	7.9	7.7	7.8
20	8.3	8.0	8.1	---	---	---	8.4	7.7	8.2	8.3	7.9	8.1
21	8.4	7.7	8.1	---	---	---	8.2	7.8	8.0	8.3	7.8	8.0
22	8.4	7.7	7.9	---	---	---	8.2	7.6	7.9	8.3	7.8	8.1
23	8.2	7.8	8.0	8.5	7.7	---	8.0	7.5	7.7	8.3	7.7	8.0
24	8.7	7.8	8.3	8.5	7.6	7.9	8.0	7.6	7.8	8.2	7.9	8.0
25	8.6	8.1	8.4	8.4	7.6	7.9	8.1	7.5	7.9	8.2	7.7	7.9
26	8.6	8.1	8.4	8.4	7.7	7.9	8.1	7.6	7.9	7.9	7.5	7.7
27	8.6	8.1	8.4	8.4	7.7	8.0	8.1	7.8	7.9	8.2	7.7	8.0
28	8.3	7.8	8.0	8.4	7.8	8.2	8.3	7.6	8.0	8.1	7.7	7.9
29	8.3	7.7	8.0	7.9	7.6	7.7	8.2	7.5	7.9	8.2	7.8	8.0
30	8.0	7.6	7.8	8.5	7.6	8.1	8.1	7.6	7.8	8.1	7.8	8.0
31	---	---	---	8.5	7.9	8.2	7.9	7.4	7.6	---	---	---
MONTH	8.7	7.0	7.9	8.8	7.5	8.0	8.4	6.9	7.6	8.5	7.4	8.0
YEAR	8.8	6.9	8.0									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22.5	21.5	22.2	---	---	---	9.5	8.7	9.2	1.9	1.7	1.8
2	22.5	22.0	22.2	20.0	19.8	19.9	9.2	8.6	9.0	1.8	1.3	1.6
3	23.0	22.0	22.3	19.9	19.7	19.7	8.6	7.8	8.1	1.8	1.3	1.6
4	23.5	22.5	22.9	19.7	19.2	19.4	7.8	7.6	7.7	1.9	1.5	1.7
5	23.0	23.0	23.0	19.2	18.2	18.8	7.9	7.6	7.8	1.9	1.8	1.9
6	23.0	21.9	22.4	18.2	17.4	17.8	7.6	7.1	7.3	2.2	1.9	2.0
7	21.9	20.3	21.0	18.3	18.0	18.2	7.4	6.6	7.0	2.3	2.1	2.2
8	20.3	18.9	19.5	18.1	17.5	17.8	7.1	6.7	6.9	2.5	2.3	2.4
9	18.9	18.0	18.3	17.6	17.0	17.3	6.7	6.3	6.5	2.4	2.2	2.3
10	18.6	17.9	18.2	17.0	15.4	16.0	6.8	6.4	6.7	2.4	2.1	2.3
11	18.8	17.9	18.2	15.7	14.9	15.4	7.8	6.8	7.2	2.3	2.1	2.3
12	18.7	17.9	18.2	15.5	15.0	15.3	7.1	6.1	6.6	2.6	2.2	2.4
13	18.6	18.1	18.3	15.5	14.8	15.2	6.2	4.7	5.3	2.9	2.6	2.7
14	18.6	18.0	18.3	15.1	14.3	14.6	5.5	5.2	5.4	3.3	2.9	3.1
15	18.3	18.0	18.2	14.4	13.7	14.1	5.2	4.3	4.7	3.7	3.1	3.4
16	18.6	18.0	18.3	14.1	13.4	13.8	5.1	4.5	4.8	3.9	3.5	3.7
17	18.6	18.4	18.5	13.6	11.8	12.9	4.9	3.2	4.3	3.9	3.7	3.8
18	18.7	18.2	18.4	12.4	11.8	12.1	5.6	2.9	3.8	4.1	3.8	3.9
19	18.9	18.4	18.5	12.1	11.4	11.7	5.7	2.9	4.6	4.1	3.7	3.9
20	18.8	18.3	18.5	11.4	10.4	11.1	3.8	3.0	3.5	3.8	3.4	3.7
21	19.0	18.4	18.7	10.9	10.1	10.4	3.9	3.2	3.7	4.5	3.3	3.9
22	19.0	18.6	18.8	10.3	9.1	10.0	3.7	2.6	3.3	4.9	4.0	4.4
23	19.5	18.9	19.1	10.2	9.6	10.0	3.4	2.7	3.1	5.3	4.4	4.8
24	19.6	19.1	19.3	10.2	9.8	10.0	3.4	2.6	3.1	5.8	4.8	5.3
25	19.6	19.3	19.4	9.9	9.3	9.6	3.0	2.2	2.4	5.1	4.3	4.7
26	20.0	19.5	19.7	9.6	9.4	9.5	2.9	1.9	2.3	5.0	4.2	4.6
27	20.0	19.5	19.9	9.5	9.2	9.3	3.0	2.1	2.5	5.1	4.4	4.8
28	---	---	---	9.7	8.9	9.4	3.0	2.1	2.7	4.8	4.4	4.6
29	---	---	---	9.4	9.1	9.3	3.2	2.1	2.9	5.1	4.2	4.6
30	19.5	19.2	19.3	9.6	8.9	9.3	2.6	1.9	2.2	---	---	---
31	19.4	19.3	19.4	---	---	---	1.9	1.6	1.7	---	---	---
MONTH	23.5	17.9	19.6	20.0	8.9	13.7	9.5	1.6	5.0	5.8	1.3	3.3

03438220 CUMBERLAND RIVER NEAR GRAND RIVERS, KY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	5.8	5.2	5.4	10.1	9.1	9.6	11.0	10.6	10.8	21.1	19.9	20.5
2	5.5	5.2	5.4	10.1	9.8	10.0	11.6	10.9	11.3	21.8	20.4	21.0
3	5.4	4.3	5.0	10.0	9.8	9.9	11.9	11.5	11.7	22.1	20.6	21.3
4	5.7	5.1	5.5	10.0	9.7	9.8	12.9	11.8	12.3	22.3	21.0	21.6
5	6.1	5.7	5.9	9.8	9.2	9.6	14.1	12.8	13.4	23.0	21.7	22.4
6	6.7	5.7	6.1	9.5	8.6	9.1	14.2	13.4	13.9	23.1	22.1	22.6
7	6.9	6.2	6.5	9.5	8.2	8.9	15.7	13.8	14.9	22.6	22.2	22.4
8	7.2	6.6	6.9	9.7	8.7	9.1	16.2	14.9	15.6	23.1	22.1	22.6
9	8.3	7.0	7.6	9.4	8.4	9.0	16.9	16.0	16.4	23.5	22.9	23.2
10	7.3	7.1	7.2	9.7	8.7	9.2	17.9	16.5	17.1	23.7	23.2	23.5
11	7.2	6.7	6.9	9.8	9.1	9.4	18.7	17.2	18.0	23.7	22.8	23.2
12	7.2	6.3	6.8	10.5	9.6	10.0	18.4	17.8	18.1	23.4	23.0	23.1
13	7.1	6.9	7.0	10.5	9.9	10.2	19.4	18.0	18.7	23.6	23.1	23.3
14	7.7	6.9	7.4	11.3	10.4	10.8	19.5	18.9	19.2	23.7	23.3	23.5
15	8.4	7.5	8.0	11.2	10.8	11.0	19.5	18.8	19.1	23.7	23.1	23.4
16	8.4	7.9	8.3	11.2	10.7	10.9	19.7	18.3	18.8	23.5	23.1	23.3
17	8.3	7.5	7.9	10.8	9.8	10.4	18.3	17.1	17.5	24.1	23.4	23.6
18	8.6	7.5	8.1	10.8	9.2	10.1	17.6	16.3	17.0	24.2	24.0	24.1
19	8.9	7.9	8.4	10.7	9.8	10.4	17.6	16.7	17.2	24.6	24.1	24.3
20	9.0	8.6	8.8	10.6	10.1	10.4	17.4	16.8	16.9	25.1	24.3	24.7
21	8.8	8.4	8.6	10.8	9.8	10.4	17.4	16.9	17.1	25.1	24.3	24.8
22	8.4	8.0	8.1	10.6	10.2	10.4	18.4	17.2	17.7	24.3	23.8	24.1
23	8.1	7.9	8.0	11.4	10.1	10.7	18.6	17.8	18.2	23.8	23.6	23.7
24	9.3	7.8	8.4	11.5	10.8	11.1	18.3	17.5	17.8	23.7	23.3	23.5
25	9.9	9.0	9.4	11.4	10.4	10.9	18.5	17.9	18.1	23.4	23.0	23.2
26	10.3	9.1	9.7	11.4	10.2	10.8	18.9	17.8	18.3	23.0	22.6	22.8
27	10.0	9.4	9.6	11.4	10.2	10.8	19.1	18.4	18.6	22.6	22.4	22.5
28	9.9	8.9	9.4	11.1	10.3	10.7	20.5	18.6	19.3	23.0	22.4	22.6
29	---	---	---	11.1	10.5	10.7	21.0	19.8	20.3	23.0	22.7	22.9
30	---	---	---	10.8	10.6	10.7	21.3	19.9	20.6	23.7	23.0	23.3
31	---	---	---	11.2	10.6	10.9	---	---	---	23.2	22.6	23.0
MONTH	10.3	4.3	7.5	11.5	8.2	10.2	21.3	10.6	16.8	25.1	19.9	23.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.1	22.6	22.8	27.7	27.1	27.4	30.6	30.1	30.3	28.7	28.1	28.3
2	22.7	22.3	22.5	28.0	27.2	27.5	30.7	29.8	30.3	28.5	28.0	28.2
3	22.8	22.1	22.5	28.1	27.6	27.8	30.7	30.0	30.3	28.5	27.9	28.1
4	22.9	21.8	22.3	28.0	27.6	27.8	30.8	30.2	30.4	28.6	28.0	28.3
5	23.5	22.6	23.0	28.9	27.8	28.3	30.9	30.4	30.6	29.2	28.1	28.5
6	23.4	23.1	23.2	29.4	28.3	28.6	30.9	30.2	30.6	29.0	28.2	28.5
7	23.9	23.3	23.6	29.4	28.6	28.9	30.7	30.1	30.4	28.5	27.9	28.2
8	24.4	23.8	24.0	29.6	28.4	28.8	30.8	30.3	30.5	27.9	27.3	27.7
9	24.8	23.9	24.2	29.2	28.7	28.9	30.8	30.1	30.4	27.9	27.5	27.7
10	25.1	24.2	24.6	29.7	28.8	29.2	30.4	29.9	30.2	27.5	26.8	27.1
11	25.8	24.6	25.1	30.2	29.2	29.6	30.5	30.0	30.2	27.2	26.5	26.9
12	25.9	25.2	25.5	30.0	28.8	29.2	30.8	29.9	30.2	27.2	26.6	26.9
13	26.8	25.5	26.1	28.8	28.1	28.5	30.5	29.9	30.2	27.3	26.6	26.9
14	27.5	26.1	26.7	28.6	28.1	28.3	30.2	29.6	29.9	27.2	26.0	26.5
15	27.1	26.5	26.9	28.6	28.3	28.4	29.9	29.2	29.6	26.0	25.3	25.5
16	28.6	26.6	27.3	29.0	28.4	28.6	29.7	29.0	29.2	25.4	24.8	25.1
17	28.1	27.5	27.8	28.7	28.2	28.5	29.4	28.8	29.1	25.4	24.9	25.2
18	28.8	27.8	28.3	28.3	28.0	28.1	29.3	28.7	29.0	25.6	24.9	25.2
19	29.0	28.0	28.4	---	---	---	29.0	28.6	28.8	25.2	24.8	25.0
20	28.1	27.8	27.9	---	---	---	29.1	28.2	28.6	25.0	24.6	24.8
21	28.0	27.4	27.8	---	---	---	28.7	28.4	28.6	24.9	24.3	24.6
22	27.5	27.1	27.3	---	---	---	29.0	28.1	28.6	25.3	24.4	24.8
23	27.3	27.0	27.2	29.6	28.6	29.2	29.0	28.5	28.8	25.4	24.6	24.9
24	27.6	27.0	27.3	29.6	27.8	28.9	29.1	28.4	28.7	24.7	23.4	24.2
25	27.8	27.4	27.6	29.6	28.8	29.1	29.5	28.9	29.1	23.4	23.0	23.3
26	27.8	27.4	27.6	29.5	29.1	29.2	29.5	28.9	29.2	23.1	22.7	22.9
27	27.6	27.1	27.3	29.5	29.1	29.2	29.3	28.8	29.0	22.7	22.2	22.4
28	27.3	26.8	27.0	29.5	29.2	29.3	29.6	28.9	29.2	22.4	22.0	22.2
29	27.7	26.9	27.2	29.3	29.1	29.2	29.6	28.9	29.3	22.1	21.4	21.6
30	27.8	27.1	27.3	30.0	29.2	29.6	29.3	28.8	29.0	21.6	21.1	21.4
31	---	---	---	30.5	29.8	30.1	28.8	28.3	28.5	---	---	---
MONTH	29.0	21.8	25.9	30.5	27.1	28.7	30.9	28.1	29.6	29.2	21.1	25.7
YEAR	30.9	1.3	17.4									

03438220 CUMBERLAND RIVER NEAR GRAND RIVERS, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.9	9.0	9.8	---	---	---	12.0	11.5	11.7	15.1	14.8	14.9
2	9.9	8.4	9.1	2.6	2.0	2.4	11.7	11.5	11.6	15.6	15.0	15.3
3	9.7	8.2	8.6	3.7	2.1	2.9	12.6	11.7	12.1	15.9	15.2	15.5
4	9.8	8.9	9.2	4.4	3.3	3.9	13.2	12.0	12.5	15.9	15.5	15.7
5	9.5	8.1	9.1	5.7	4.3	5.0	12.9	12.7	12.8	16.3	15.8	16.0
6	8.5	7.5	8.0	6.5	5.7	6.2	13.3	12.5	12.9	16.7	16.0	16.3
7	8.9	8.3	8.6	7.1	6.4	6.7	13.5	12.2	12.7	16.6	16.4	16.5
8	9.1	8.6	8.9	8.0	7.1	7.6	12.9	12.0	12.3	17.3	16.5	16.9
9	9.5	9.0	9.2	8.9	8.0	8.4	13.1	12.4	12.7	17.9	17.0	17.4
10	10.3	9.0	9.4	9.4	8.2	9.0	12.8	12.4	12.6	19.1	17.2	18.1
11	10.0	8.9	9.2	9.9	9.2	9.5	12.9	12.1	12.5	18.9	17.8	18.3
12	10.8	8.6	9.5	10.3	9.5	9.8	12.7	12.0	12.2	19.1	18.0	18.5
13	10.6	9.1	9.8	10.5	9.6	9.9	12.6	11.9	12.2	20.6	18.2	19.2
14	10.4	9.1	9.9	10.6	10.0	10.4	12.3	11.7	11.9	19.4	18.3	18.7
15	9.2	8.2	8.7	11.1	10.4	10.6	12.1	11.5	11.7	18.7	17.9	18.2
16	9.3	8.3	8.7	10.9	10.4	10.6	12.1	11.3	11.7	18.6	17.9	18.2
17	8.9	8.2	8.6	11.2	10.5	10.7	11.7	11.2	11.4	19.4	18.3	18.8
18	9.1	7.9	8.3	11.7	10.8	11.1	11.6	10.8	11.1	19.8	18.7	19.3
19	9.5	7.7	8.2	11.8	10.8	11.1	12.4	10.9	11.5	19.7	18.4	18.8
20	7.9	6.8	7.4	11.6	10.9	11.3	12.5	11.9	12.2	18.5	17.7	18.1
21	8.0	6.3	7.1	11.8	11.3	11.5	12.7	12.1	12.3	19.0	17.7	18.2
22	7.6	6.0	6.6	11.8	11.4	11.5	12.9	12.4	12.6	18.6	17.2	17.8
23	7.0	5.5	6.3	11.7	11.3	11.5	13.0	12.6	12.8	18.0	16.9	17.4
24	6.1	5.1	5.7	11.6	11.2	11.3	13.2	12.7	13.0	17.8	16.1	17.0
25	5.2	4.0	4.7	12.0	11.4	11.7	13.5	12.9	13.2	17.6	16.0	16.6
26	4.2	3.3	3.7	11.6	11.4	11.5	13.7	13.3	13.5	16.5	14.9	15.8
27	3.3	2.9	3.1	12.1	11.4	11.8	13.9	13.5	13.7	15.5	14.2	14.8
28	---	---	---	12.0	11.6	11.7	14.2	13.6	13.9	14.6	13.8	14.0
29	---	---	---	12.4	11.6	11.8	14.3	13.9	14.1	13.9	13.2	13.4
30	3.2	2.9	3.0	12.0	11.6	11.8	14.6	14.2	14.4	---	---	---
31	---	---	---	---	---	---	14.8	14.6	14.7	---	---	---
MONTH	10.9	2.9	7.8	12.4	2.0	9.4	14.8	10.8	12.6	20.6	13.2	17.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	13.3	12.7	12.9	11.2	11.0	11.1	13.5	12.6	13.2	9.9	8.2	9.0
2	13.1	12.6	12.8	11.1	10.8	10.9	14.1	13.1	13.5	9.9	8.6	9.2
3	13.6	12.7	13.0	10.9	10.7	10.8	13.6	12.5	13.1	9.5	8.3	8.8
4	13.3	12.4	12.7	11.1	10.8	11.0	13.4	12.2	12.7	9.2	7.9	8.7
5	12.9	12.4	12.6	11.5	11.1	11.2	14.2	13.2	13.7	9.6	8.5	8.9
6	12.9	12.2	12.5	11.7	11.2	11.4	13.7	12.5	13.0	10.4	8.7	9.5
7	12.8	12.2	12.4	11.9	11.5	11.6	12.9	12.4	12.6	9.4	8.1	8.7
8	12.7	12.2	12.4	11.9	11.4	11.6	13.1	12.0	12.5	9.2	8.1	8.7
9	12.7	11.8	12.1	12.3	11.5	11.8	12.7	12.1	12.4	9.2	8.5	8.8
10	12.3	11.7	12.0	12.2	11.5	11.8	12.7	12.0	12.2	9.8	8.9	9.3
11	12.6	11.8	12.1	12.2	11.6	11.9	12.3	11.4	12.0	9.6	8.1	8.9
12	13.2	11.7	12.3	12.6	11.6	12.0	11.6	9.3	10.9	9.0	7.9	8.6
13	12.0	11.5	11.8	12.6	11.6	12.0	11.0	9.9	10.5	9.9	8.8	9.3
14	11.9	11.3	11.6	13.0	12.0	12.4	10.7	10.1	10.4	9.7	8.9	9.2
15	11.5	11.1	11.2	12.6	11.8	12.2	10.4	10.0	10.2	9.8	8.7	9.3
16	11.1	10.7	10.9	12.0	11.5	11.7	10.8	9.6	10.2	9.4	8.6	9.0
17	11.5	10.9	11.2	12.1	11.3	11.6	10.3	9.1	9.6	9.8	8.2	8.9
18	11.3	10.6	10.9	13.0	11.6	12.2	10.7	9.3	9.9	9.6	8.6	9.2
19	10.9	10.6	10.7	13.3	11.7	12.2	10.6	9.4	10.0	9.2	8.2	8.6
20	10.8	10.7	10.8	12.7	11.4	11.9	10.2	9.4	9.8	8.9	8.2	8.5
21	11.1	10.8	11.0	13.2	11.5	12.1	10.2	9.3	9.6	9.1	7.6	8.5
22	11.1	11.0	11.1	14.1	12.0	12.8	10.5	8.9	9.6	8.6	6.9	7.8
23	11.3	11.0	11.1	14.9	12.6	13.6	10.4	8.9	9.8	9.0	8.0	8.4
24	11.5	11.3	11.4	14.5	12.1	13.2	9.8	8.6	9.0	8.4	8.0	8.2
25	11.5	11.3	11.4	14.4	12.4	13.3	10.4	9.0	9.5	8.5	8.0	8.2
26	11.4	11.2	11.3	14.6	12.5	13.5	10.5	8.9	9.6	9.2	8.2	8.6
27	11.4	11.2	11.3	14.6	12.9	13.8	10.1	9.2	9.6	8.8	8.2	8.4
28	11.9	11.2	11.4	16.4	12.5	13.9	11.9	9.1	10.1	9.1	8.2	8.6
29	---	---	---	15.6	12.4	14.0	11.3	10.0	10.6	8.9	8.3	8.6
30	---	---	---	15.2	13.4	14.4	10.9	9.2	10.1	9.8	8.4	8.9
31	---	---	---	13.8	12.4	12.9	---	---	---	8.8	6.2	8.3
MONTH	13.6	10.6	11.7	16.4	10.7	12.3	14.2	8.6	11.0	10.4	6.2	8.8

03438220 CUMBERLAND RIVER NEAR GRAND RIVERS, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.0	7.2	7.7	6.1	4.1	5.3	12.6	9.8	11.5	6.4	5.4	5.9
2	7.9	7.3	7.6	7.3	3.8	5.7	11.6	6.2	9.3	6.8	6.0	6.4
3	8.1	7.5	7.9	7.6	5.9	6.8	10.1	6.4	8.0	7.0	6.4	6.6
4	8.2	7.5	7.8	7.4	4.1	5.8	9.6	4.0	6.9	7.8	6.6	7.2
5	8.2	7.5	7.8	8.0	5.5	7.2	9.9	5.5	8.0	8.0	7.3	7.6
6	8.3	8.0	8.1	9.1	6.9	7.7	10.1	8.2	9.1	8.3	7.5	7.9
7	8.9	8.1	8.5	8.7	7.0	7.8	11.2	6.4	8.7	8.0	7.1	7.6
8	8.8	8.2	8.4	8.2	4.8	6.2	10.8	8.0	9.7	7.5	6.6	7.1
9	9.0	8.3	8.6	7.3	5.2	6.2	8.1	4.3	6.3	6.9	6.3	6.6
10	9.5	8.5	8.9	8.1	6.4	7.1	6.8	2.7	4.5	7.7	5.6	6.4
11	9.4	8.3	8.9	9.3	6.6	7.6	5.3	1.9	3.1	9.3	5.7	7.4
12	9.3	8.3	8.8	8.5	5.8	7.1	4.6	3.1	4.1	10.3	6.3	8.0
13	9.3	8.1	8.7	8.2	6.1	6.9	5.2	4.5	4.9	10.6	6.6	8.6
14	9.4	7.2	8.1	8.9	6.7	7.5	5.3	1.9	4.0	10.4	6.4	8.3
15	8.1	6.4	7.4	10.0	7.7	8.7	6.5	2.7	4.8	9.4	7.6	8.3
16	9.8	6.9	7.8	10.5	8.4	9.4	9.9	4.5	6.1	10.1	7.7	9.0
17	8.2	7.1	7.5	9.2	7.0	7.8	9.5	5.7	7.1	10.6	7.2	9.1
18	9.3	7.2	8.4	7.3	6.1	6.9	7.9	3.2	5.1	8.9	6.8	7.5
19	9.3	7.3	8.4	---	---	---	8.1	3.9	6.3	7.2	5.9	6.5
20	7.9	7.2	7.4	---	---	---	9.2	4.0	7.4	8.7	6.8	7.6
21	8.1	6.2	7.4	---	---	---	8.2	7.4	7.8	8.5	6.6	7.4
22	8.5	5.3	6.5	---	---	---	7.5	6.8	7.1	9.4	6.6	7.9
23	8.5	7.3	7.9	8.7	5.7	7.3	8.3	6.7	7.0	9.4	7.5	8.2
24	10.1	7.5	8.8	11.6	6.1	8.5	7.1	6.5	6.7	8.6	7.7	8.0
25	9.6	7.9	8.7	11.6	9.1	10.0	6.7	6.3	6.5	8.7	7.7	8.2
26	9.6	7.9	8.8	11.4	8.9	10.0	6.6	6.1	6.4	8.2	7.0	7.5
27	9.4	7.7	8.6	11.7	8.2	9.6	6.6	6.1	6.4	8.2	7.4	7.7
28	7.7	5.5	6.4	11.5	8.2	10.2	6.6	6.0	6.2	7.4	6.5	6.9
29	7.7	4.7	6.2	8.9	7.3	8.2	6.5	6.1	6.3	6.6	5.5	6.0
30	7.3	5.2	6.5	12.5	7.0	10.1	6.5	6.0	6.2	5.7	5.4	5.6
31	---	---	---	12.9	9.7	11.5	6.1	5.6	5.9	---	---	---
MONTH	10.1	4.7	7.9	12.9	3.8	7.9	12.6	1.9	6.7	10.6	5.4	7.4
YEAR	20.6	1.9	10.1									

03609750 TENNESSEE RIVER AT HIGHWAY 60 NEAR PADUCAH, KY

(National stream-quality accounting network and radiochemical network station)

LOCATION.--Lat 37°02'16", long 88°31'46", McCracken County, Hydrologic unit 06040006, at auxiliary gaging station at bridge on U.S. Highway 60, 16.3 mi downstream from gaging station, 2.4 mi east of Paducah, and at mile 5.3.

DRAINAGE AREA.--40,330 mi^2; 40,200 mi^2 at gaging station.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950, 1952, 1967-72, 1974-86, 1997 to current water year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE.--November 1973 to September 1981.
WATER TEMPERATURES.--November 1973 to September 1981.

REMARKS.--Records of daily discharge published 1941 to 1989 for gaging station near Paducah (station 03609500) 16.3 mi upstream. Flow is completely regulated. Barkley-Kentucky Canal (station 03438190) diverts water from or to Lake Barkley in the Cumberland River Basin.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY (NTU) (00076)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)
NOV												
29...	1220	ENVIRONMENTAL	29900	2.5	8.0	.048	.036	762	10.4	7.6	7.5	197
29...	1228	FIELD BLANK	--	--	--	--	--	--	--	--	--	--
DEC												
19...	1220	ENVIRONMENTAL	110000	4.2	5.3	.048	.033	762	16.9	7.7	7.8	218
JAN												
30...	1240	ENVIRONMENTAL	61600	16	17	.068	.052	743	12.0	7.7	7.8	188
30...	1248	FIELD BLANK	--	--	--	--	--	--	--	--	--	--
FEB												
22...	1210	ENVIRONMENTAL	203000	39	46	.090	.068	761	15.3	7.1	7.5	147
MAR												
29...	1250	ENVIRONMENTAL	43500	5.4	10	.059	.044	757	11.1	7.5	8.0	183
29...	1300	REPLICATE	--	5.1	7.4	.059	.045	--	--	--	8.0	--
APR												
19...	1250	ENVIRONMENTAL	54000	4.6	8.9	.057	.042	761	9.4	8.2	8.1	179
19...	1258	FIELD BLANK	--	--	--	--	--	--	--	--	--	--
MAY												
24...	1250	ENVIRONMENTAL	18200	4.1	12	.061	.044	751	8.6	7.9	7.9	154
24...	1258	FIELD BLANK	--	--	--	.004	<.004	--	--	--	--	--
JUN												
28...	1230	ENVIRONMENTAL	15200	--	4.2	.059	.042	762	7.3	7.4	7.5	176
28...	1240	REPLICATE	--	--	6.2	--	--	--	--	--	7.7	--
JUL												
12...	1120	ENVIRONMENTAL	47000	--	<.1	.063	.046	757	5.0	7.0	7.8	166
SEP												
06...	1230	ENVIRONMENTAL	35200	--	5.2	.060	.043	758	5.7	7.3	8.0	174

DATE	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
NOV													
29...	11.5	10.0	70	19.6	5.11	2.07	12.1	62	54	66	12.4	E.1	5.7
29...	--	--	0	.01	.032	--	<.025	--	--	--	--	--	<.02
DEC													
19...	-5.2	4.0	75	21.8	5.03	1.96	11.2	67	54	66	11.7	E.1	4.3
JAN													
30...	3.0	4.5	73	22.9	3.81	1.94	8.4	67	62	76	8.7	E.1	3.2
30...	--	--	--	E.01	<.008	<.01	<.1	--	--	--	--	--	<.1
FEB													
22...	3.5	8.5	57	18.4	2.63	1.74	4.7	50	43	53	5.7	E.1	3.6
MAR													
29...	15.5	10.5	69	21.8	3.48	1.52	7.0	60	52	64	8.1	E.1	2.7
29...	--	--	70	22.0	3.51	1.45	7.0	60	--	--	7.7	<.2	2.8
APR													
19...	21.5	16.5	68	21.4	3.49	1.59	6.6	59	54	66	7.8	E.1	.2
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
24...	20.5	23.5	59	18.4	3.18	1.59	6.2	53	48	59	7.6	E.1	2.3
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
28...	32.5	27.5	63	19.6	3.48	1.68	8.4	54	50	61	10.4	E.1	1.7
28...	--	--	62	19.1	3.42	1.67	7.9	54	52	64	10.7	E.1	1.6
JUL													
12...	24.5	28.0	59	18.2	3.33	1.84	7.7	54	53	64	8.9	E.1	1.9
SEP													
06...	33.0	28.0	60	17.4	4.03	1.99	9.1	56	52	64	9.4	E.1	3.4

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
NOV													
29...	17.7	114	E.039	.22	.28	.224	.011	.055	.053	.066	.7	<.1	2.1
29...	--	--	<.002	--	--	<.005	.001	--	E.005	--	--	--	--
DEC													
19...	19.2	128	E.034	.20	.26	.259	.008	.043	.035	.066	1.4	<.1	1.9
JAN													
30...	14.6	126	E.022	.23	.41	.595	<.006	.045	.039	.101	1.1	<.1	2.4
30...	--	--	<.002	--	--	.005	<.001	--	<.007	--	--	--	--
FEB													
22...	10.9	87	.048	.27	.41	.637	E.005	.056	.047	.193	1.2	<.1	2.8
MAR													
29...	13.4	104	E.028	.20	.24	.632	.008	.028	.021	.051	.4	<.1	2.1
29...	13.4	103	E.022	.20	.27	.632	.008	.028	.021	.051	.4	<.1	2.1
APR													
19...	12.7	97	.045	.23	.38	.412	.008	.016	.011	.041	.5	<.1	2.1
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
24...	11.0	85	E.033	.26	.41	.055	E.004	.011	<.007	.035	1.1	<.1	2.5
24...	--	--	--	--	--	--	--	--	--	--	.2	<.1	.39
JUN													
28...	11.9	95	.044	.18	.38	.125	.014	.015	E.005	.052	1.1	<.1	3.2
28...	11.9	96	.045	.19	.35	.121	.012	.016	<.007	.030	--	--	--
JUL													
12...	10.5	94	.083	.29	.35	.100	.013	.017	.010	.042	1.5	<.1	3.4
SEP													
06...	12.4	97	<.040	.21	.32	.124	<.006	.044	.042	.068	1.1	<.1	2.6

DATE	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	PHEO-PHYTIN A, PHYTO-PHYTON (UG/L) (62360)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)
NOV													
29...	.7	1.0	1.3	7	.19	<2.0	32	<.04	<.8	.12	1.5	10	<.08
29...	--	--	--	M	<.20	--	<2	<.30	<.2	<.20	<.2	M	<.30
DEC													
19...	1.4	4.2	7.5	3	.25	.9	32	<.04	<.8	.12	1.2	<10	<.08
JAN													
30...	1.1	6.5	9.2	--	--	.6	27	--	--	--	--	10	--
30...	--	--	--	--	--	<.2	<7	--	--	--	--	<10	--
FEB													
22...	1.1	4.2	1.9	6	.07	.4	20	<.04	<.8	.10	1.1	30	E.04
MAR													
29...	.4	3.5	3.0	--	--	.4	14	--	--	--	--	10	--
29...	.4	--	--	--	--	.4	14	--	--	--	--	20	--
APR													
19...	.5	6.8	4.8	--	--	.4	17	--	--	--	--	10	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
24...	1.1	6.9	10.6	--	--	.6	19	--	--	--	--	M	--
24...	.2	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
28...	1.1	--	--	--	--	.8	19	--	--	--	--	<10	--
28...	--	--	--	--	--	.8	20	--	--	--	--	<10	--
JUL													
12...	1.5	--	--	--	--	1.0	21	--	--	--	--	<10	--
SEP													
06...	1.1	--	--	--	--	1.5	29	--	--	--	--	<10	--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)
NOV													
29...	<3.9	4.4	1.8	.73	<2.4	<1.0	72.5	<8.0	9	<.002	<.004	<.002	<.005
29...	--	<.1	<.2	<.50	--	<.2	<.10	--	<.5	--	--	--	--
DEC													
19...	2.1	5.2	1.7	.52	.3	<1.0	83.7	.9	9	<.002	<.004	<.002	<.005
JAN													
30...	1.2	--	--	--	E.2	--	60.9	.6	--	<.002	<.004	<.002	<.005
30...	<.3	--	--	--	<.3	--	E.04	<.2	--	--	--	--	--
FEB													
22...	.8	1.3	.6	.35	E.2	<1.0	51.4	.8	4	<.002	<.004	<.002	<.005
MAR													
29...	1.0	--	--	--	E.2	--	62.4	.8	--	<.002	<.004	<.002	<.005
29...	1.0	--	--	--	<.3	--	63.2	.8	--	<.002	<.004	<.002	<.005
APR													
19...	.9	--	--	--	<.3	--	62.1	.5	--	<.002	<.004	<.002	<.005
19...	--	--	--	--	--	--	--	--	--	<.002	<.004	<.002	<.005
MAY													
24...	1.0	--	--	--	<.3	--	59.5	.5	--	<.002	<.004	<.002	<.005
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
28...	.9	--	--	--	<.3	--	66.0	.7	--	<.002	<.004	<.002	<.005
28...	.9	--	--	--	<.3	--	65.6	.7	--	<.002	<.004	<.002	<.005
JUL													
12...	1.1	--	--	--	E.2	--	61.4	.7	--	<.002	<.004	<.002	<.005
SEP													
06...	1.0	--	--	--	E.2	--	65.9	.9	--	<.002	.007	<.002	<.005

DATE	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
NOV													
29...	.023	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.008	<.005	<.005	<.021	<.002
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
19...	.026	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.011	<.005	<.005	<.021	<.002
JAN													
30...	.025	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.010	<.005	<.005	<.021	<.002
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
22...	.014	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.006	<.005	<.005	<.021	<.002
MAR													
29...	.015	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.005	<.005	<.005	<.021	<.002
29...	.014	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.006	<.005	<.005	<.021	<.002
APR													
19...	.026	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.008	<.005	<.005	<.021	<.002
19...	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.021	<.002
MAY													
24...	.141	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.012	<.005	<.005	<.021	<.002
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
28...	.209	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.031	<.005	<.005	<.021	<.002
28...	.216	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.011	<.005	<.005	<.021	<.002
JUL													
12...	.206	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.008	<.005	<.005	<.021	<.002
SEP													
06...	.086	<.010	<.002	<.041	<.020	<.005	E.009	<.003	E.017	E.002	<.005	<.021	<.002

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)
NOV													
29...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.002	<.006	<.002	<.007	<.003
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
19...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.003	<.006	<.002	<.007	<.003
JAN													
30...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.007	<.006	<.002	<.007	<.003
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
22...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.004	<.006	<.002	<.007	<.003
MAR													
29...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.003	<.006	<.002	<.007	<.003
29...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.003	<.006	<.002	<.007	<.003
APR													
19...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.003	<.006	<.002	<.007	<.003
19...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003
MAY													
24...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.018	<.006	<.002	<.007	<.003
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
28...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.022	<.006	<.002	<.007	<.003
28...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.022	<.006	<.002	<.007	<.003
JUL													
12...	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.017	<.006	<.002	<.007	<.003
SEP													
06...	<.009	<.005	<.003	<.004	E.007	<.027	<.050	<.006	E.009	<.006	<.002	<.007	<.003

DATE	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
NOV													
29...	<.007	<.002	<.010	<.006	<.011	E.006	<.004	<.010	<.011	<.023	E.007	E.015	<.034
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
19...	<.007	<.002	<.010	<.006	<.011	E.004	<.004	<.010	<.011	<.023	E.009	.018	<.034
JAN													
30...	<.007	<.002	<.010	<.006	<.011	E.004	<.004	<.010	<.011	<.023	.025	E.015	<.034
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
22...	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	.021	E.012	<.034
MAR													
29...	<.007	<.002	<.010	<.006	<.011	E.003	<.004	<.010	<.011	<.023	.017	E.012	<.034
29...	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	.015	E.011	<.034
APR													
19...	<.007	<.002	<.010	<.006	<.011	E.004	<.004	<.010	<.011	<.023	.024	E.012	<.034
19...	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034
MAY													
24...	<.007	<.002	<.010	<.006	<.011	E.004	<.004	<.010	<.011	<.023	.054	E.014	<.034
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
28...	<.007	<.002	<.010	<.006	<.011	E.004	<.004	<.010	<.011	<.023	.042	E.015	<.034
28...	<.007	<.002	<.010	<.006	<.011	E.005	<.004	<.010	<.011	<.023	.039	E.013	<.034
JUL													
12...	<.007	<.002	<.010	<.006	<.011	E.005	<.004	<.010	<.011	<.023	.029	E.012	<.034
SEP													
06...	<.007	<.002	<.010	<.006	<.011	E.011	<.005	<.010	<.011	<.023	.011	.020	<.034

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV					
29...	<.017	<.005	<.002	98	4
29...	--	--	--	--	--
DEC					
19...	<.017	<.005	<.002	83	11
JAN					
30...	<.017	<.005	<.002	98	28
30...	--	--	--	--	--
FEB					
22...	<.017	<.005	<.002	100	40
MAR					
29...	<.017	<.005	<.002	99	5
29...	<.017	<.005	<.002	--	--
APR					
19...	<.017	<.005	<.002	100	9
19...	<.017	<.005	<.002	--	--
MAY					
24...	<.017	<.005	<.002	97	7
24...	--	--	--	--	--
JUN					
28...	<.017	<.005	<.002	97	8
28...	<.017	<.005	<.002	--	--
JUL					
12...	<.017	<.005	<.002	97	7
SEP					
06...	<.017	<.005	<.002	--	--

E Estimated
M Presence of material verified but not quantified

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 mi^2.

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

GAGE.--Water-stage recorder 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.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 15	2400	*5,350	14.32	Jul 24	2300	4,520	13.86
Apr 4	2300	4,040	13.54				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	8.8	13	20	39	90	62	21	15	24	36	15
2	7.3	9.2	12	20	32	78	49	21	13	13	29	12
3	7.5	11	12	19	29	68	108	20	14	11	25	18
4	7.6	9.9	12	20	28	353	1590	19	18	9.2	42	74
5	7.6	9.1	12	20	28	265	902	18	13	12	22	16
6	21	13	12	20	27	123	240	18	12	18	19	14
7	10	26	13	20	27	85	155	24	12	9.8	18	92
8	7.0	16	13	20	27	70	106	45	12	8.2	18	73
9	6.0	69	12	19	29	60	82	17	11	8.2	17	519
10	6.6	16	12	18	77	53	66	13	10	14	370	299
11	6.7	12	13	18	49	49	56	12	10	10	114	49
12	6.6	9.8	19	20	36	71	80	11	10	8.8	39	29
13	6.4	13	e14	19	35	304	62	10	9.8	8.1	25	23
14	6.1	11	e17	20	568	147	49	9.9	9.8	8.3	19	20
15	5.9	9.8	e19	21	3520	100	177	9.9	9.4	8.9	17	17
16	6.2	9.8	1690	21	3140	123	124	16	9.1	9.2	16	15
17	6.9	9.7	473	20	1720	89	58	16	8.5	7.9	15	15
18	7.5	9.0	102	21	326	66	45	15	8.4	61	14	20
19	7.1	9.0	61	53	206	56	41	20	8.8	265	104	122
20	7.0	7.9	43	38	153	51	37	18	8.6	33	22	47
21	7.3	8.6	36	28	116	48	35	43	9.6	105	16	23
22	6.3	8.6	31	25	639	44	32	99	14	19	14	20
23	5.9	8.6	28	25	263	43	52	27	9.0	18	13	16
24	11	8.1	26	24	167	41	61	36	8.0	1700	13	21
25	10	122	24	24	849	37	36	19	8.3	1010	12	16
26	7.9	38	23	23	274	36	30	15	15	282	12	15
27	8.7	20	24	23	160	35	28	14	121	210	12	14
28	7.2	16	23	22	114	34	26	14	61	80	12	13
29	7.8	13	23	26	---	36	23	14	68	94	12	12
30	7.3	12	22	107	---	61	22	13	59	168	12	12
31	8.0	---	20	65	---	72	---	14	---	51	27	---
TOTAL	241.8	543.9	2854	839	12678	2788	4434	661.8	595.3	4284.6	1136	1651
MEAN	7.80	18.1	92.1	27.1	453	89.9	148	21.3	19.8	138	36.6	55.0
MAX	21	122	1690	107	3520	353	1590	99	121	1700	370	519
MIN	5.9	7.9	12	18	27	34	22	9.9	8.0	7.9	12	12
CFSM	.06	.14	.69	.20	3.38	.67	1.10	.16	.15	1.03	.27	.41
IN.	.07	.15	.79	.23	3.52	.77	1.23	.18	.17	1.19	.32	.46

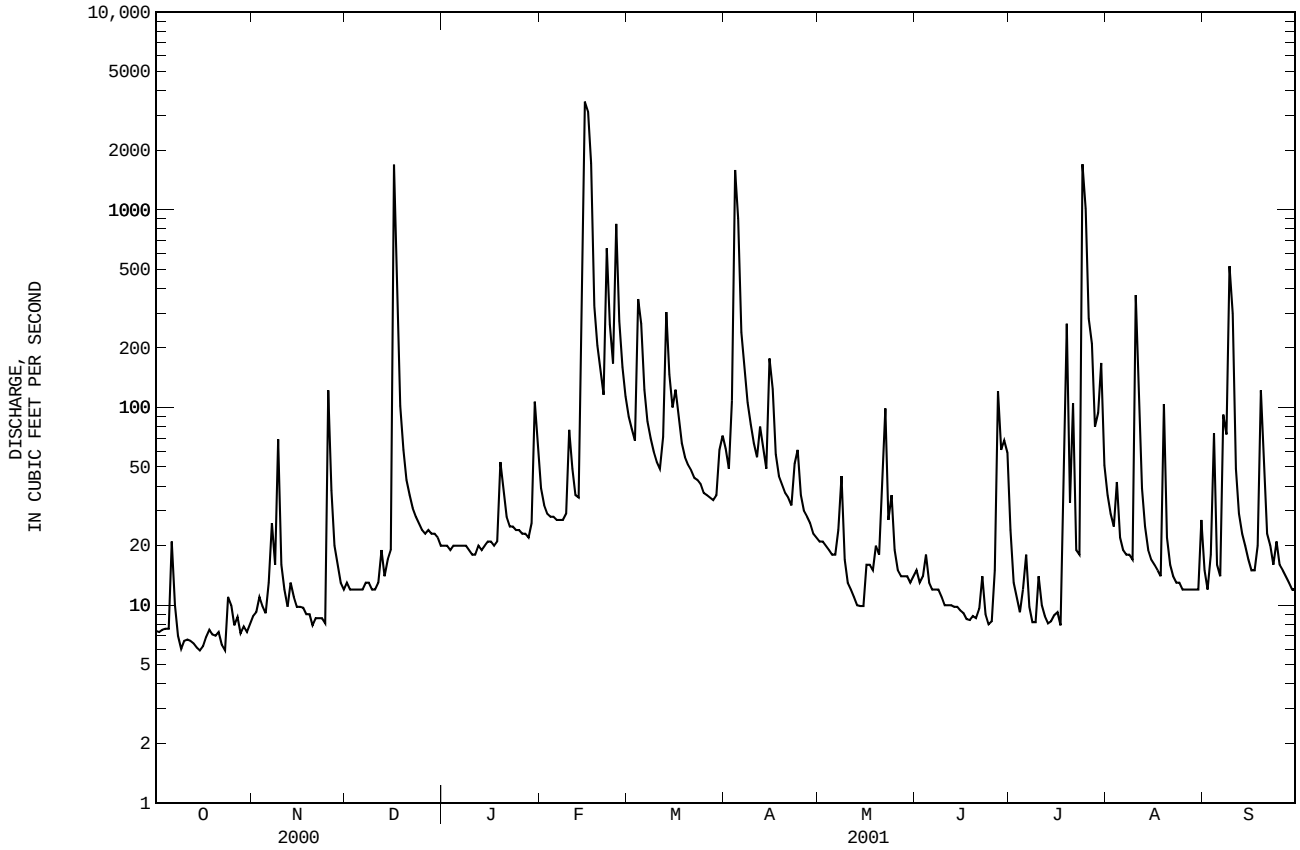
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2001, BY WATER YEAR (WY)

MEAN	43.3	144	301	214	411	275	228	228	123	71.2	44.1	26.5
MAX	205	684	1065	583	1693	1336	623	925	667	264	377	141
(WY)	1986	1989	1983	1999	1989	1997	1983	1983	1998	1989	1995	1996
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1983 - 2001	
ANNUAL TOTAL	54808.8		32707.4			
ANNUAL MEAN	150		89.6		175	
HIGHEST ANNUAL MEAN					367	1989
LOWEST ANNUAL MEAN					69.8	1987
HIGHEST DAILY MEAN	7060	May 25	3520	Feb 15	14000	Mar 2 1997
LOWEST DAILY MEAN	4.5	Sep 21	5.9	Oct 15	1.6	Aug 29 1983
ANNUAL SEVEN-DAY MINIMUM	5.0	Sep 16	6.3	Oct 9	1.7	Aug 31 1983
MAXIMUM PEAK FLOW			5350	Feb 15	23300	Mar 2 1997
MAXIMUM PEAK STAGE			14.32	Feb 15	18.35	Mar 2 1997
ANNUAL RUNOFF (CFSM)	1.12		.67		1.30	
ANNUAL RUNOFF (INCHES)	15.22		9.08		17.69	
10 PERCENT EXCEEDS	148		122		300	
50 PERCENT EXCEEDS	21		20		30	
90 PERCENT EXCEEDS	7.1		8.5		5.5	

e Estimated



03611260 MASSAC CREEK NEAR PADUCAH, KY

LOCATION.--Lat 37°02'29", long 88°42'39", McCracken County, Hyrologic Unit 05140206, on left upstream wingwall of bridge n 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 mi^2.

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

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

GAGE.--Water-stage recorder. Datum of gage is 345.53 ft above NGVD of 1929.

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

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)

No peak greater than base discharge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.54	.71	1.6	e1.5	4.6	8.5	2.2	2.0	8.9	3.7	.82	3.6
2	.62	.73	1.7	e1.5	3.7	7.7	6.8	1.9	4.5	1.0	.79	.88
3	.73	.81	1.7	e1.6	3.1	6.6	16	1.9	3.8	.84	.84	.76
4	.78	.83	1.8	e1.7	3.2	146	151	1.7	4.4	.84	.78	.71
5	1.8	.84	1.7	e1.8	3.0	21	35	1.6	1.7	.84	.77	.73
6	4.2	4.8	1.6	e2.0	2.8	10	16	1.7	e102	.83	.77	.81
7	.62	2.5	1.8	e2.5	2.4	6.5	12	2.0	e18	.83	.78	7.3
8	.61	4.3	1.7	2.7	2.2	4.6	8.7	1.9	8.9	.80	.85	11
9	.70	9.2	1.6	2.1	6.5	3.4	7.0	1.4	6.1	.84	.84	2.4
10	.72	1.2	2.1	2.1	9.3	2.8	5.6	1.4	4.7	.80	1.7	.96
11	.74	.77	5.1	2.2	4.3	2.3	4.4	1.6	3.7	.78	.84	.74
12	.64	.74	4.8	2.3	3.6	7.0	4.1	1.2	3.3	.84	.80	.71
13	.64	2.4	6.2	2.4	3.8	36	3.1	1.1	2.8	.78	.76	.73
14	.73	1.1	18	3.4	138	7.5	2.7	.99	2.2	.77	.76	.72
15	.88	.66	7.0	3.3	171	33	5.6	.91	1.9	.74	.72	.75
16	.92	.65	218	2.8	216	87	2.9	.91	1.7	.70	.74	.74
17	.96	.61	e20	2.6	42	14	1.8	.92	1.5	.71	.74	.78
18	.94	.56	e10	3.0	19	7.7	1.8	.92	1.4	.76	.72	.85
19	.89	.66	e6.0	6.6	14	5.0	1.6	1.2	1.2	4.0	18	17
20	.87	.69	e4.0	4.0	11	3.8	1.4	1.0	1.2	7.2	.81	1.2
21	.84	.61	e3.0	3.1	10	2.9	1.2	7.1	2.7	1.9	.70	.80
22	.87	.60	e2.6	2.9	90	2.1	1.1	3.8	5.6	.82	.78	.72
23	.76	.59	e2.4	2.9	20	1.7	3.7	1.2	1.6	1.0	.91	5.7
24	.84	9.1	e2.2	2.8	24	1.5	3.1	2.7	1.2	4.2	.82	9.1
25	.87	56	e2.0	2.2	118	1.0	2.7	1.2	1.3	1.2	e.71	1.4
26	.87	9.3	e2.0	2.3	17	.89	3.3	.92	1.2	45	e.71	.90
27	1.0	3.6	e1.8	2.2	13	.79	3.2	.85	8.3	6.5	e.71	.84
28	.80	2.4	e1.8	2.0	9.9	.77	3.0	.81	4.0	4.6	.70	e.82
29	.88	1.8	e1.6	16	---	.83	2.5	.77	1.2	4.1	.71	e.80
30	.80	1.6	e1.6	18	---	1.5	2.2	.82	1.5	1.7	2.4	e.78
31	.82	---	e1.6	7.8	---	1.3	---	6.5	---	.97	24	---
TOTAL	28.88	120.36	339.0	114.3	965.4	435.68	315.7	54.92	212.5	100.59	66.98	75.23
MEAN	.93	4.01	10.9	3.69	34.5	14.1	10.5	1.77	7.08	3.24	2.16	2.51
MAX	4.2	56	218	18	216	146	151	7.1	102	45	24	17
MIN	.54	.56	1.6	1.5	2.2	.77	1.1	.77	1.2	.70	.70	.71
CFSM	.06	.27	.75	.25	2.36	.96	.72	.12	.49	.22	.15	.17
IN.	.07	.31	.86	.29	2.46	1.11	.80	.14	.54	.26	.17	.19

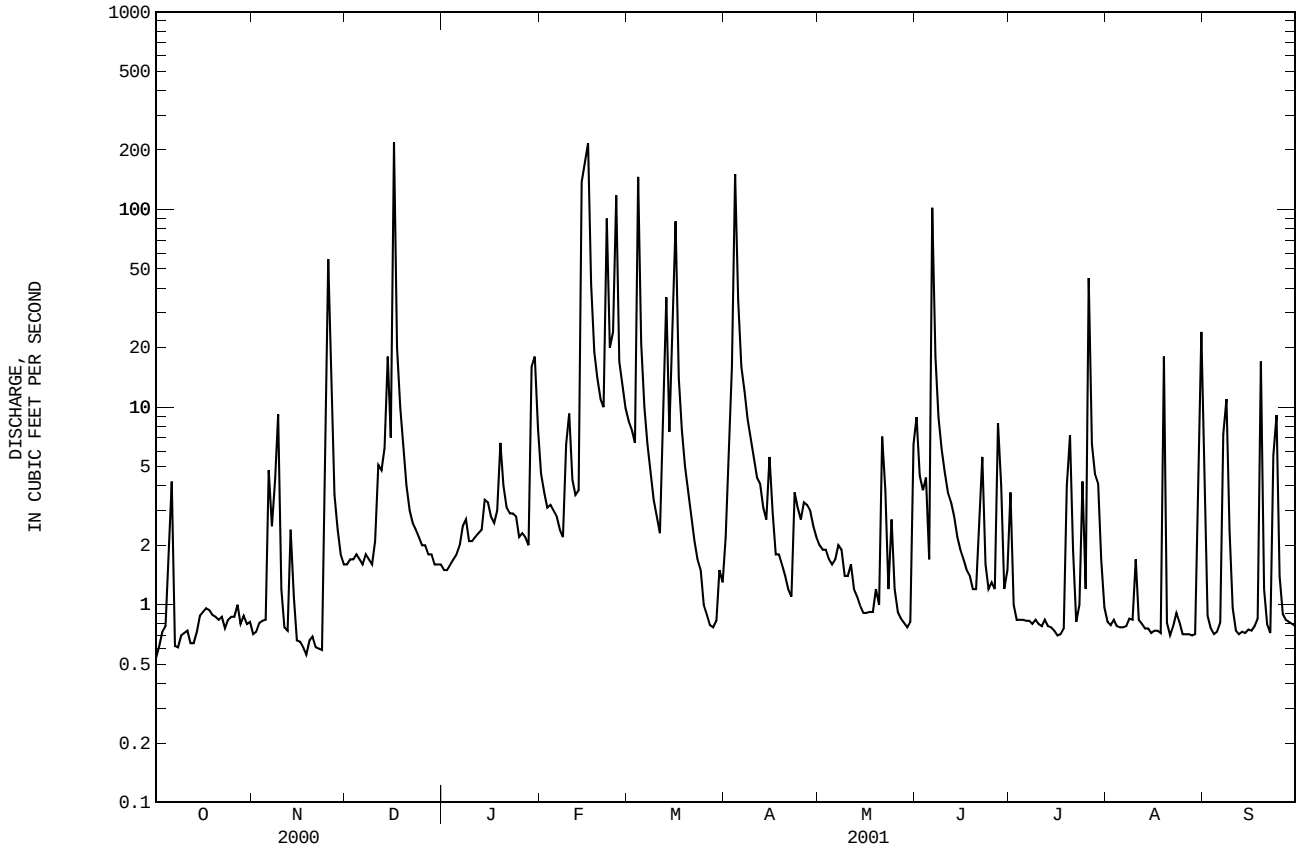
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2001, BY WATER YEAR (WY)

MEAN	3.08	14.1	26.1	22.6	35.5	30.4	30.4	17.1	9.58	8.48	2.98	4.07
MAX	19.4	70.8	105	65.8	160	109	121	58.8	53.8	37.3	13.9	50.1
(WY)	1986	1997	1983	2000	1989	1997	1973	1983	1998	1983	1982	1985
MIN	.25	.37	.71	.58	4.19	8.36	2.14	1.17	.32	.37	.30	.23
(WY)	1982	1972	1977	1977	1996	1987	1986	1992	1972	1974	1980	1976

03611260 MASSAC CREEK NEAR PADUCAH, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1972 - 2001	
ANNUAL TOTAL	5010.76		2829.54			
ANNUAL MEAN	13.7		7.75		16.9	
HIGHEST ANNUAL MEAN					37.9	1979
LOWEST ANNUAL MEAN					6.54	1987
HIGHEST DAILY MEAN	1910	Jan 3	218	Dec 16	1910	Jan 3 2000
LOWEST DAILY MEAN	.54	Oct 1	.54	Oct 1	.09	Nov 13 1971
ANNUAL SEVEN-DAY MINIMUM	.60	Sep 14	.62	Nov 17	.10	Nov 10 1971
MAXIMUM PEAK FLOW			638	Jun 6	5990	Sep 5 1985
MAXIMUM PEAK STAGE			7.21	Jun 6	15.86	Sep 5 1985
INSTANTANEOUS LOW FLOW					.06	Nov 14 1971
ANNUAL RUNOFF (CFSM)	.94		.53		1.16	
ANNUAL RUNOFF (INCHES)	12.77		7.21		15.75	
10 PERCENT EXCEEDS	9.1		11		26	
50 PERCENT EXCEEDS	2.1		1.8		2.2	
90 PERCENT EXCEEDS	.65		.73		.45	

e Estimated



03611500 OHIO RIVER AT METROPOLIS, IL

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

DRAINAGE AREA.--203,000 mi^2, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 276.27 ft above 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 discharges below 100,000 ft^3/s and for period of estimated record, which are poor. Flow regulated by many dams and reservoirs. Maximum daily discharge includes overflow through Bay Creek and Cache River Valleys.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167000	71600	148000	137000	247000	519000	157000	133000	e261000	e100000	261000	105000
2	125000	77900	140000	135000	280000	451000	177000	138000	e180000	e90000	286000	135000
3	136000	68200	135000	140000	320000	416000	197000	114000	e150000	e80000	312000	130000
4	147000	57800	129000	122000	310000	411000	216000	116000	180000	e70000	284000	129000
5	126000	61900	126000	96300	346000	347000	229000	103000	228000	e60000	201000	118000
6	116000	78200	116000	87800	371000	344000	226000	e100000	259000	74100	171000	120000
7	113000	85600	94100	88100	331000	359000	209000	e105000	302000	83700	e150000	129000
8	125000	79500	77000	88900	254000	377000	196000	111000	308000	153000	e140000	132000
9	153000	80400	74700	90900	218000	369000	192000	104000	311000	173000	138000	137000
10	164000	117000	73400	91200	198000	312000	190000	e100000	331000	177000	127000	140000
11	162000	144000	83100	87600	199000	242000	201000	e98000	309000	216000	107000	133000
12	149000	159000	91700	74400	220000	217000	215000	108000	296000	249000	109000	139000
13	150000	157000	126000	73400	248000	201000	224000	102000	276000	240000	158000	128000
14	147000	173000	138000	82000	254000	210000	267000	93400	239000	e200000	163000	121000
15	144000	182000	141000	82900	311000	222000	320000	e90000	238000	e140000	174000	112000
16	128000	154000	186000	89300	429000	247000	366000	92700	191000	e120000	171000	94600
17	135000	126000	254000	92300	561000	269000	408000	101000	e160000	e110000	169000	73000
18	120000	142000	376000	97100	639000	292000	402000	136000	e150000	e100000	153000	74000
19	112000	133000	497000	e150000	677000	294000	363000	197000	e130000	128000	134000	83400
20	89200	135000	529000	209000	707000	323000	302000	226000	e120000	152000	136000	80500
21	84200	131000	541000	217000	732000	341000	237000	285000	120000	148000	127000	85100
22	85400	128000	504000	276000	758000	341000	219000	321000	e110000	e130000	121000	102000
23	88200	101000	482000	374000	777000	346000	238000	361000	e110000	e110000	123000	87600
24	102000	83100	450000	408000	762000	356000	237000	381000	e100000	e100000	128000	105000
25	86400	76100	367000	401000	741000	365000	211000	374000	112000	103000	117000	92800
26	84500	83800	289000	359000	683000	373000	204000	e368000	148000	131000	111000	96300
27	99300	123000	233000	255000	616000	372000	191000	e376000	140000	153000	124000	88400
28	87900	125000	195000	232000	569000	346000	167000	e386000	134000	146000	113000	121000
29	82100	130000	161000	226000	---	316000	153000	386000	e120000	148000	115000	118000
30	78400	155000	127000	213000	---	264000	146000	384000	e110000	223000	133000	92700
31	74800	---	134000	214000	---	204000	---	342000	---	251000	126000	---
TOTAL	3661400	3419100	7018000	5290200	12758000	10046000	7060000	6332100	5823000	4358800	4882000	3302400
MEAN	118100	114000	226400	170700	455600	324100	235300	204300	194100	140600	157500	110100
MAX	167000	182000	541000	408000	777000	519000	408000	386000	331000	251000	312000	140000
MIN	74800	57800	73400	73400	198000	201000	146000	90000	100000	60000	107000	73000

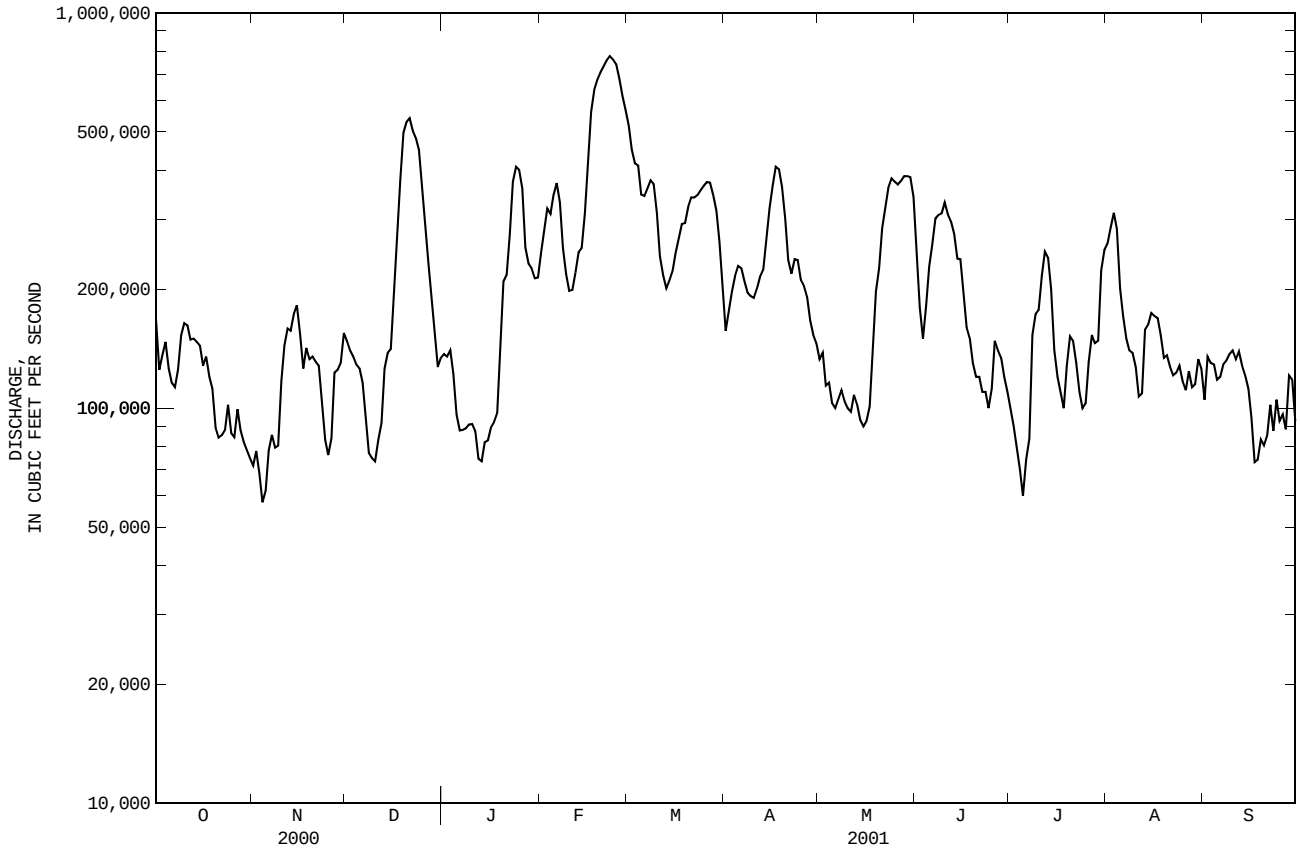
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2001, BY WATER YEAR (WY)

MEAN	102900	163400	286900	394700	469000	522600	454400	335200	220100	154000	122400	99450
MAX	335600	450300	717500	1022000	1217000	1039000	896400	917800	596400	441200	331100	383500
(WY)	1980	1986	1973	1937	1937	1997	1994	1983	1997	1928	1958	1979
MIN	22710	33400	48610	71650	77380	154700	129900	75180	53840	23350	25390	29330
(WY)	1931	1931	1931	1940	1934	1941	1986	1941	1936	1930	1930	1930

03611500 OHIO RIVER AT METROPOLIS, IL--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1928 - 2001	
ANNUAL TOTAL	72427100		73951000			
ANNUAL MEAN	197900		202600		275400	
HIGHEST ANNUAL MEAN					436600	1979
LOWEST ANNUAL MEAN					120300	1931
HIGHEST DAILY MEAN	729000	Feb 27	777000	Feb 23	1850000	Feb 1 1937
LOWEST DAILY MEAN	50000	Jul 27	57800	Nov 4	15000	Jul 20 1930
ANNUAL SEVEN-DAY MINIMUM	70100	Oct 31	70100	Oct 31	16600	Jul 20 1930
MAXIMUM PEAK FLOW			781000	Feb 23	1850000	Feb 1 1937
MAXIMUM PEAK STAGE			45.68	Feb 23	66.60	Feb 2 1937
10 PERCENT EXCEEDS	425000		373000		634000	
50 PERCENT EXCEEDS	144000		148000		189000	
90 PERCENT EXCEEDS	78000		86100		68300	

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 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 366.06 ft above NGVD of 1929 (levels by U.S. Department of Energy).

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

COOPERATION.--Kentucky Cabinet for Health Services.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jul 26	0730	*1090	*6.80	No other peaks above base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.26	e.29	.41	e.30	1.4	2.0	1.6	.26	2.2	.19	.24	.62
2	.27	e.29	.43	e.32	1.2	1.7	1.2	.26	.66	.21	.20	.24
3	.28	e.28	.44	e.30	1.0	1.5	2.5	.23	.49	.25	.19	.23
4	.33	e.30	.45	e.28	.98	66	68	.24	1.2	.31	.19	.24
5	.94	e.50	.47	e.26	.98	11	13	.27	.35	.35	.19	.24
6	2.1	1.2	.47	e.28	.97	3.9	5.3	.28	.85	.37	.18	.27
7	.29	.79	.47	e.28	.85	2.3	2.8	.34	.62	.39	.19	.50
8	.25	12	.48	e.27	.85	1.7	1.7	.33	.21	.42	.20	3.7
9	.31	11	.49	e.27	3.6	1.3	1.1	.30	.17	.48	.23	.38
10	.35	.29	.54	e.26	4.0	.96	.72	.27	.17	.51	2.6	.32
11	.34	.16	.67	e.26	1.7	.79	.48	.40	.16	.49	.24	.28
12	.35	.16	.67	e.26	1.4	2.9	.30	.51	.16	.55	.26	.30
13	.33	.27	1.4	e.25	1.4	13	.21	.36	.17	.51	.41	.31
14	.32	.24	4.6	e.26	110	3.3	.19	.33	.15	.55	.22	e.28
15	.33	.19	2.0	e.28	50	5.8	.71	.24	.18	.59	.23	e.26
16	.37	.21	124	e.30	64	26	.29	.24	.16	.62	.23	e.28
17	e.40	.21	e16	e.40	10	4.8	.16	.21	.16	.67	.24	e.30
18	e.38	.22	e8.0	e.80	2.9	2.4	.14	.21	.16	.76	.28	.36
19	e.36	.24	e4.0	2.0	1.6	1.8	.12	.21	.17	3.0	2.1	3.3
20	e.34	.24	e3.0	1.4	.83	1.4	.24	.21	.20	2.0	.34	.24
21	e.38	.24	e2.0	1.0	3.2	1.0	.48	21	.68	.96	.32	.19
22	e.38	.25	e1.6	.90	74	.84	.46	.77	.27	4.9	e.28	.25
23	e.36	.24	e1.4	.87	13	.76	.57	.32	.18	1.5	e.26	28
24	e.34	2.9	e1.0	.87	16	.58	.36	.26	.17	.58	e.32	4.9
25	e.32	27	e.80	.78	55	.47	.34	.21	.17	.51	e.46	.55
26	e.32	1.9	e.66	.81	7.8	.43	.33	.20	.17	185	e.44	.32
27	e.31	.59	e.54	.85	3.9	.38	.28	.19	.18	8.4	e.42	.23
28	e.31	.41	e.44	.85	2.6	.41	.21	.18	.18	2.2	e.40	.25
29	e.30	.35	e.36	3.5	---	.43	.18	.17	.18	2.3	e.42	.29
30	e.30	.40	e.32	5.7	---	1.2	.25	.18	.21	.52	.56	.32
31	e.30	---	e.30	2.3	---	1.2	---	.69	---	.27	9.8	---
TOTAL	12.52	63.36	178.41	27.46	435.16	162.25	104.22	29.87	10.98	220.36	22.64	47.95
MEAN	.40	2.11	5.76	.89	15.5	5.23	3.47	.96	.37	7.11	.73	1.60
MAX	2.1	27	124	5.7	110	66	68	21	2.2	185	9.8	28
MIN	.25	.16	.30	.25	.83	.38	.12	.17	.15	.19	.18	.19
CFSM	.06	.32	.88	.14	2.37	.80	.53	.15	.06	1.09	.11	.24
IN.	.07	.36	1.01	.16	2.47	.92	.59	.17	.06	1.25	.13	.27

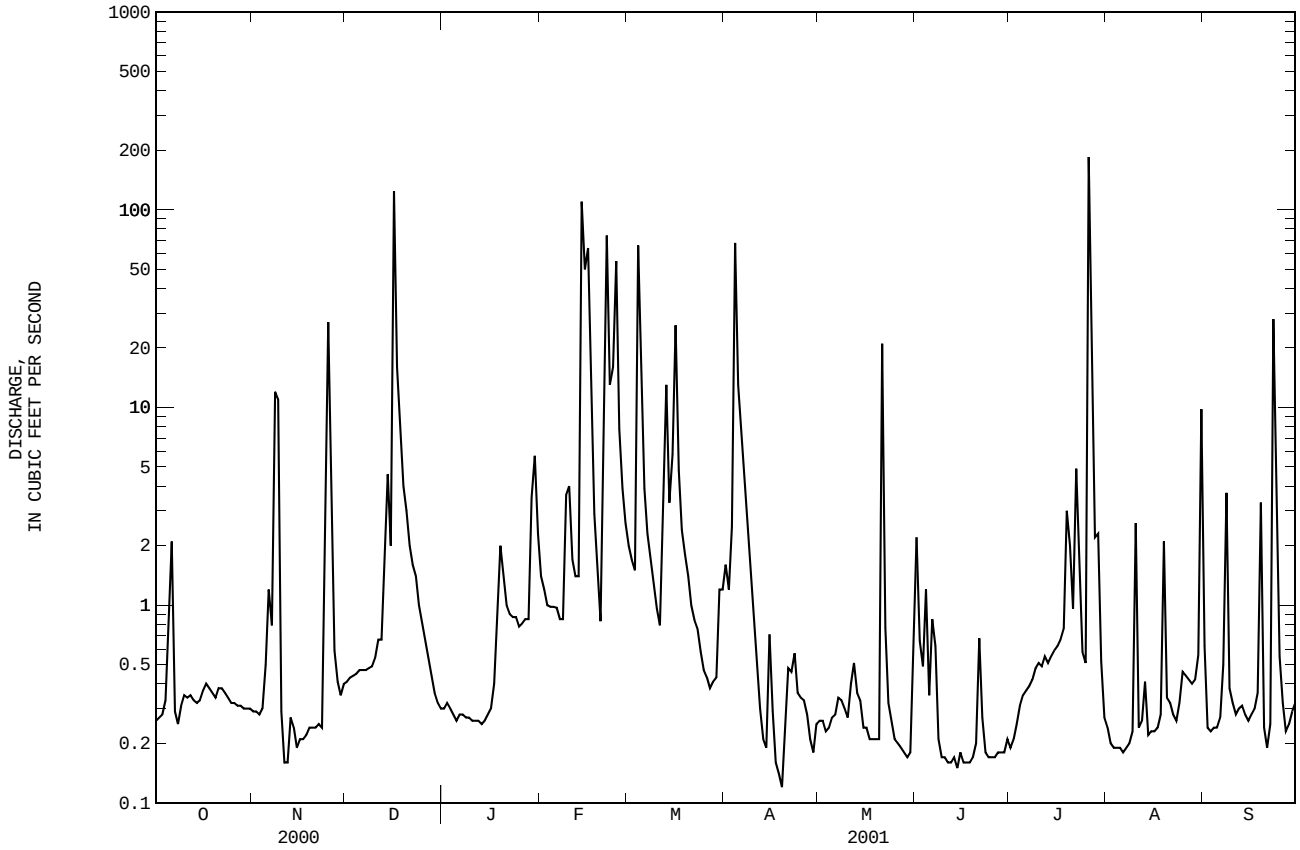
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2001, BY WATER YEAR (WY)

MEAN	1.10	4.39	8.50	9.99	10.9	9.93	8.08	7.13	4.47	3.08	1.63	.72
MAX	3.48	22.8	37.2	24.4	15.6	34.9	16.6	16.5	16.6	7.59	8.31	2.11
(WY)	1999	1997	1991	1999	1991	1997	1994	1995	1998	1998	1998	1993
MIN	.21	.21	.50	.89	.60	3.26	3.47	.56	.17	.089	.12	.15
(WY)	1998	2000	1998	2001	1996	1995	2001	1994	1994	1993	1993	1998

03611800 BAYOU CREEK NEAR HEATH, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1991 - 2001	
ANNUAL TOTAL	1771.83		1315.18			
ANNUAL MEAN	4.84		3.60		5.87	
HIGHEST ANNUAL MEAN					10.0	1997
LOWEST ANNUAL MEAN					3.60	2001
HIGHEST DAILY MEAN	529	Jan 3	185	Jul 26	710	Mar 1 1997
LOWEST DAILY MEAN	.08	Jul 28	.12	Apr 19	.05	Sep 7 1991
ANNUAL SEVEN-DAY MINIMUM	.12	Jul 22	.16	Jun 11	.06	Jul 2 1993
MAXIMUM PEAK FLOW			1090	Jul 26	1870	Mar 1 1997
MAXIMUM PEAK STAGE			6.80	Jul 26	9.90	Mar 1 1997
ANNUAL RUNOFF (CFSM)	.74		.55		.90	
ANNUAL RUNOFF (INCHES)	10.06		7.47		12.19	
10 PERCENT EXCEEDS	3.5		3.9		5.2	
50 PERCENT EXCEEDS	.38		.39		.42	
90 PERCENT EXCEEDS	.19		.19		.15	

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 mi^2.

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

GAGE.--Water-stage recorder. 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.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jul 26	0830	*1380	11.21	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	5.6	6.5	7.1	6.8	11	10	6.9	9.2	8.4	15	12
2	5.1	5.4	7.0	7.4	6.6	10	11	6.9	7.5	7.5	15	9.0
3	4.8	5.6	7.5	8.0	6.4	9.7	16	5.8	8.6	8.4	15	7.4
4	5.0	5.9	7.5	7.7	6.2	152	116	4.3	9.9	7.4	13	8.6
5	10	5.9	6.9	7.2	6.1	26	31	4.3	7.7	7.2	14	7.2
6	12	14	5.9	7.3	6.1	15	16	4.4	10	8.8	14	8.3
7	4.4	7.8	5.3	7.4	6.1	13	12	6.0	8.7	8.3	13	11
8	4.0	40	6.0	7.4	5.7	11	9.4	6.5	7.9	7.2	13	17
9	4.2	51	6.3	7.1	9.1	10	8.6	6.7	7.7	7.1	13	8.1
10	4.4	6.1	7.2	6.3	9.7	9.9	8.2	6.3	7.6	7.4	48	6.7
11	4.4	4.7	8.8	5.9	6.2	9.6	9.0	6.5	6.5	8.6	14	8.5
12	4.1	4.4	8.4	5.8	5.7	14	7.8	6.0	7.1	10	36	6.9
13	4.0	6.5	13	5.8	6.1	22	7.5	5.4	7.3	9.4	21	6.5
14	3.9	4.7	17	5.9	213	14	7.1	5.4	7.3	8.6	13	6.7
15	3.9	4.5	11	5.7	139	15	10	5.5	7.4	8.8	12	6.1
16	4.0	4.2	261	5.6	169	39	7.7	6.3	7.0	10	11	4.7
17	4.4	4.6	e32	5.8	39	16	6.7	6.3	7.6	8.9	11	6.4
18	6.1	4.4	e16	6.2	17	12	7.1	4.2	8.0	9.6	12	6.2
19	4.9	4.3	10	8.4	14	11	7.3	4.4	8.7	18	44	14
20	4.1	4.5	10	7.6	11	10	6.8	5.7	9.0	17	11	6.3
21	5.2	5.3	8.9	7.1	13	8.7	5.7	90	24	10	9.8	6.1
22	5.5	5.6	8.7	7.1	152	7.8	4.9	7.9	9.2	60	9.3	6.1
23	5.5	4.9	7.8	6.9	25	7.6	6.5	4.9	8.8	16	8.6	43
24	4.1	12	7.1	6.8	25	7.3	5.5	5.8	8.4	10	8.9	23
25	4.8	67	7.0	6.5	122	8.6	4.7	5.6	7.9	9.3	9.1	7.0
26	3.5	9.1	6.9	5.5	21	7.1	4.5	5.5	9.4	443	12	4.5
27	3.8	6.0	7.0	5.6	15	7.3	4.8	6.8	8.6	43	8.2	4.7
28	3.7	7.8	6.9	5.3	13	7.0	6.9	6.9	7.9	23	9.1	5.4
29	3.5	7.3	6.9	10	---	6.7	6.9	6.0	7.9	22	9.1	5.9
30	3.8	7.1	7.0	13	---	9.8	7.0	7.5	8.3	15	8.1	5.3
31	4.4	---	7.1	8.2	---	10	---	14	---	13	50	---
TOTAL	151.1	326.2	534.6	217.6	1074.8	518.1	372.6	274.7	261.1	850.9	500.2	278.6
MEAN	4.87	10.9	17.2	7.02	38.4	16.7	12.4	8.86	8.70	27.4	16.1	9.29
MAX	12	67	261	13	213	152	116	90	24	443	50	43
MIN	3.5	4.2	5.3	5.3	5.7	6.7	4.5	4.2	6.5	7.1	8.1	4.5
CFSM	.33	.73	1.16	.47	2.58	1.12	.83	.59	.58	1.84	1.08	.62
IN.	.38	.81	1.33	.54	2.68	1.29	.93	.69	.65	2.12	1.25	.70

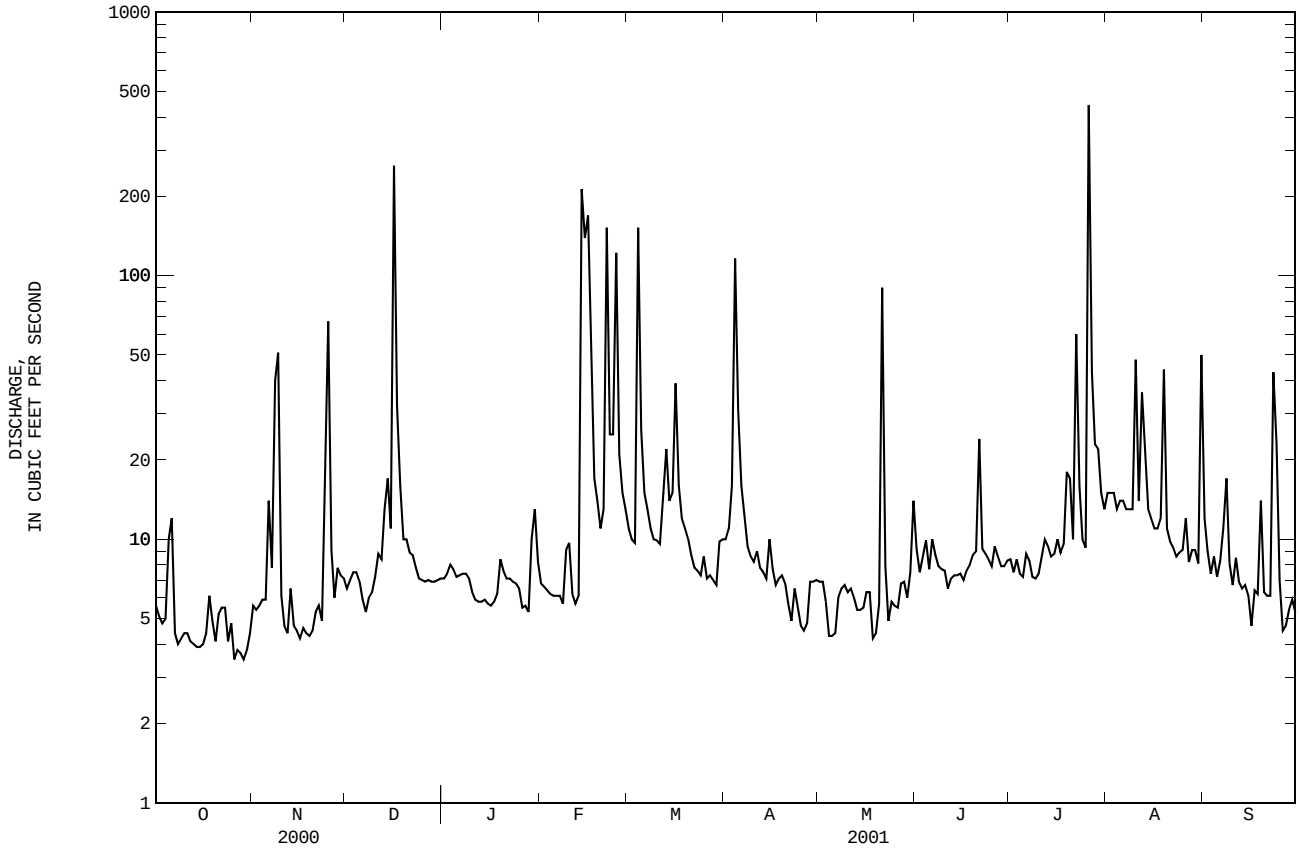
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2001, BY WATER YEAR (WY)

MEAN	8.80	16.3	23.0	27.4	29.7	28.7	26.3	21.9	17.9	14.3	11.5	8.39
MAX	20.0	56.7	60.7	55.8	38.4	77.5	41.0	38.4	32.4	27.4	21.4	13.0
(WY)	1997	1997	1991	1999	2001	1997	1994	1996	1998	2001	1998	2000
MIN	4.87	4.32	6.66	7.02	6.13	15.0	12.4	8.86	7.56	6.37	6.51	5.11
(WY)	2001	2000	1996	2001	1996	1995	2001	2001	1991	1994	1993	1997

03611850 BAYOU CREEK NEAR GRAHAMVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1991 - 2001	
ANNUAL TOTAL	6407.5		5360.5			
ANNUAL MEAN	17.5		14.7		19.6	
HIGHEST ANNUAL MEAN					30.9	1997
LOWEST ANNUAL MEAN					14.7	2001
HIGHEST DAILY MEAN	763	Jan 3	443	Jul 26	923	Mar 1 1997
LOWEST DAILY MEAN	2.8	Feb 16	3.5	Oct 26	1.9	Oct 9 1996
ANNUAL SEVEN-DAY MINIMUM	3.4	Feb 1	3.9	Oct 24	2.7	Oct 2 1997
MAXIMUM PEAK FLOW			1380	Jul 26	1750	Mar 1 1997
MAXIMUM PEAK STAGE			11.21	Jul 26	12.60	Mar 1 1997
ANNUAL RUNOFF (CFSM)	1.17		.99		1.32	
ANNUAL RUNOFF (INCHES)	16.00		13.38		17.92	
10 PERCENT EXCEEDS	17		17		24	
50 PERCENT EXCEEDS	9.9		7.5		8.5	
90 PERCENT EXCEEDS	4.4		4.7		4.6	

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 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 324.80 ft above 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.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jul 26	0815	*612	*7.70	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.85	e.95	.99	e.98	1.6	1.7	2.6	1.2	1.9	.90	.37	.95
2	.83	e.94	1.0	e.92	1.4	1.5	2.1	1.1	1.3	.83	.36	.39
3	.86	e.92	1.1	e.94	1.4	1.4	4.1	1.0	1.7	.88	.36	.36
4	.99	e1.0	1.0	e.92	1.4	48	13	.95	2.4	.91	.35	.35
5	2.0	e1.4	1.1	e.87	1.4	10	8.7	1.0	1.1	.92	.35	.35
6	4.9	5.5	2.0	e.86	1.4	3.7	3.7	.99	1.2	.90	.34	.35
7	.99	2.7	2.8	e.84	1.3	2.2	2.3	1.4	.98	.89	.35	.78
8	.94	5.8	2.3	e.82	1.4	1.6	1.7	1.1	.71	.89	.34	8.3
9	.99	8.4	1.0	e.80	3.3	1.4	1.5	.98	.67	1.5	.76	.60
10	1.0	1.3	1.3	e.80	2.9	1.3	1.4	.97	.66	1.7	51	.39
11	1.1	.93	2.7	e.78	1.8	1.2	1.3	1.0	.69	1.5	.90	.36
12	1.0	.88	2.6	e.76	1.6	2.6	1.3	.98	.87	1.6	13	.36
13	e.98	1.5	2.7	e.74	1.7	5.4	1.2	.90	.85	1.5	6.0	.35
14	e.96	.94	e6.0	e.76	68	2.6	1.3	.88	.86	1.6	.69	.35
15	e.94	.88	e3.4	e.80	52	4.0	2.4	.83	.92	1.6	.62	.37
16	e.96	.90	73	e.82	58	16	1.3	.86	.89	1.6	.56	.35
17	e1.0	.95	e20	e.86	17	5.2	1.3	.86	.90	1.7	.59	.36
18	e1.1	.91	e12	.96	5.1	2.8	1.3	.86	.89	1.5	.37	.37
19	e1.0	.99	e7.0	1.7	3.0	3.1	1.3	.87	.90	5.6	14	1.7
20	e.98	1.1	e5.8	1.1	2.2	3.4	1.4	.91	.97	4.9	.50	.38
21	e1.1	1.3	e4.6	1.0	2.1	3.1	1.3	18	5.0	1.2	.39	.35
22	e1.3	1.2	e3.8	1.0	52	2.0	1.2	1.6	1.4	24	.34	.36
23	e1.2	1.2	e3.2	1.0	9.0	1.5	1.6	.92	.82	2.8	.33	1.9
24	e1.1	2.2	e2.6	1.0	7.5	1.5	1.4	1.1	.79	1.0	.39	2.1
25	e1.1	16	e2.2	.96	53	1.4	1.2	.88	.78	.76	.84	.40
26	e1.0	2.1	e1.8	1.2	7.0	1.4	1.2	.89	.79	197	.38	.37
27	e1.0	1.1	e1.6	1.3	3.3	1.4	1.1	.90	.80	6.5	.36	.36
28	e.98	.93	e1.5	1.3	2.1	1.4	1.1	.87	.77	1.4	.36	.37
29	e.98	1.0	e1.4	3.5	---	1.4	1.1	.83	.81	2.0	.37	.39
30	e.96	.95	e1.2	3.9	---	2.4	1.0	.88	.84	.58	.77	.39
31	e.96	---	e1.0	2.1	---	1.7	---	2.6	---	.41	9.8	---
TOTAL	36.05	66.87	174.69	36.29	363.9	138.3	67.4	49.11	34.16	271.07	106.14	24.76
MEAN	1.16	2.23	5.64	1.17	13.0	4.46	2.25	1.58	1.14	8.74	3.42	.83
MAX	4.9	16	73	3.9	68	48	13	18	5.0	197	51	8.3
MIN	.83	.88	.99	.74	1.3	1.2	1.0	.83	.66	.41	.33	.35
CFSM	.20	.39	.97	.20	2.25	.77	.39	.27	.20	1.51	.59	.14
IN.	.23	.43	1.12	.23	2.34	.89	.43	.32	.22	1.74	.68	.16

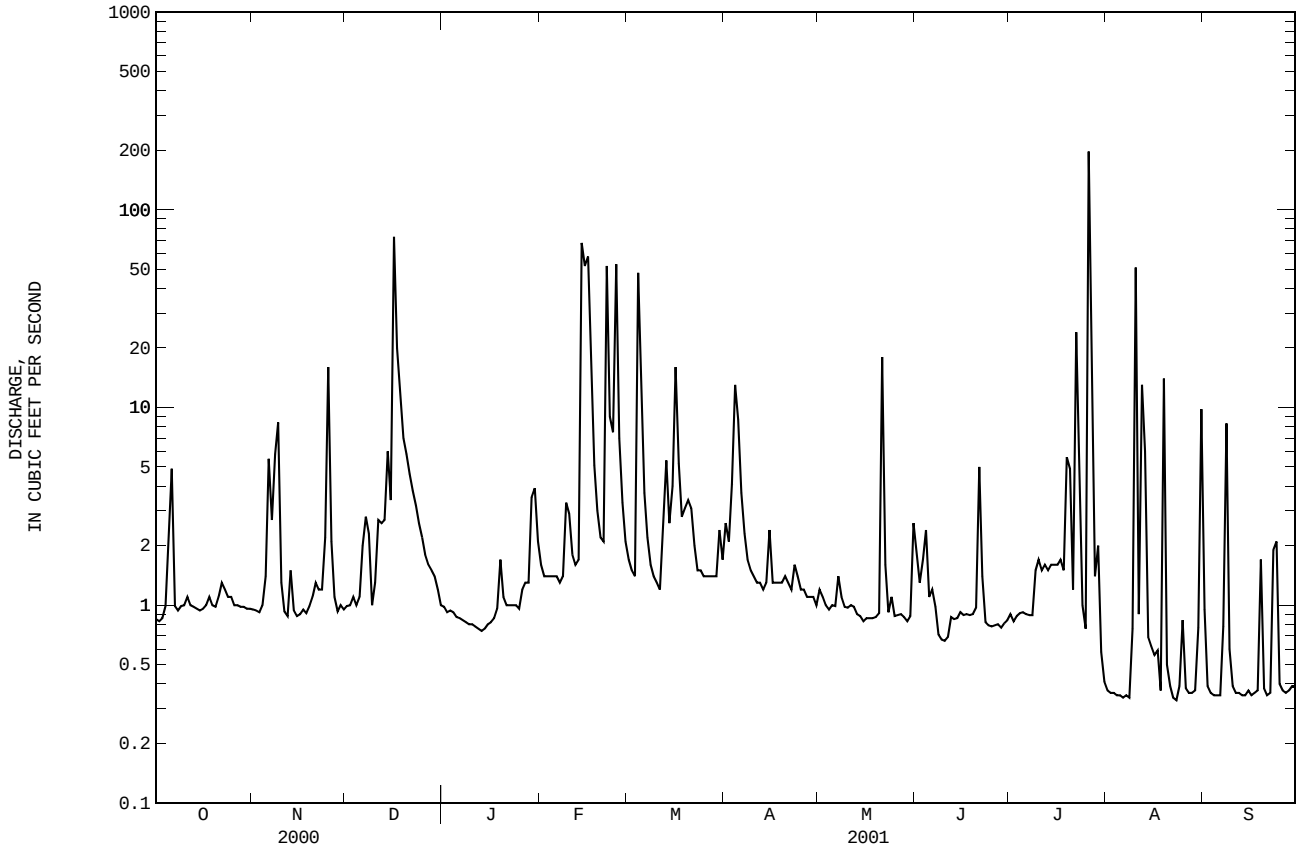
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2001, BY WATER YEAR (WY)

MEAN	2.15	4.79	8.26	9.90	10.0	9.98	8.86	7.26	4.30	3.18	2.17	1.40
MAX	4.25	18.3	33.5	20.4	17.0	32.5	19.2	13.5	12.4	8.74	8.11	2.98
(WY)	1997	1997	1991	1999	1991	1997	1994	1997	1998	2001	1998	1993
MIN	1.16	.71	1.26	1.17	1.02	3.79	2.25	1.48	1.04	.82	.72	.78
(WY)	2001	2000	1996	2001	1996	1995	2001	1994	1994	1991	1996	1998

03611900 LITTLE BAYOU CREEK NEAR GRAHAMVILLE, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1991 - 2001	
ANNUAL TOTAL	1875.65		1368.74			
ANNUAL MEAN	5.12		3.75		6.07	
HIGHEST ANNUAL MEAN					10.1	1997
LOWEST ANNUAL MEAN					3.75	2001
HIGHEST DAILY MEAN	385	Jan 3	197	Jul 26	506	Mar 1 1997
LOWEST DAILY MEAN	.50	Jan 27	.33	Aug 23	.02	May 25 1995
ANNUAL SEVEN-DAY MINIMUM	.59	Jan 22	.35	Aug 2	.35	Aug 2 2001
MAXIMUM PEAK FLOW			612	Jul 26	1300	Mar 1 1997
MAXIMUM PEAK STAGE			7.70	Jul 26	11.26	Mar 1 1997
ANNUAL RUNOFF (CFSM)	.89		.65		1.05	
ANNUAL RUNOFF (INCHES)	12.07		8.81		14.26	
10 PERCENT EXCEEDS	5.9		5.3		8.1	
50 PERCENT EXCEEDS	1.1		1.1		1.2	
90 PERCENT EXCEEDS	.73		.39		.68	

e Estimated



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

(National stream-quality accounting network station)

WATER-QUALITY RECORDS

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

DRAINAGE AREA.--203,100 mi^2, approximately

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE.--October 1954 to September 1970, January 1973 to September 1990.
WATER TEMPERATURES.--October 1954 to September 1970, January 1973 to September 1990.

REMARKS.--Records of daily discharge are published for station at Metropolis, IL (station 03611500). Flow regulated by many 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 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY (NTU) (00076)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)
NOV												
30...	1230	ENVIRONMENTAL	146000	6.2	19	.075	.056	766	11.6	7.8	7.8	461
30...	1238	FIELD BLANK	--	--	--	--	--	--	--	--	--	--
DEC												
20...	1300	ENVIRONMENTAL	530000	87	290	.080	.059	763	12.9	7.6	7.7	375
JAN												
31...	1330	ENVIRONMENTAL	200000	20	27	.070	.053	754	12.8	7.6	7.8	375
31...	1340	REPLICATE	--	22	28	.070	.052	--	--	--	7.7	--
FEB												
21...	1400	ENVIRONMENTAL	695000	81	120	.100	.075	769	12.4	7.2	7.7	311
MAR												
14...	1210	ENVIRONMENTAL	206000	37	48	.079	.059	756	11.7	7.4	7.9	377
14...	1218	FIELD BLANK	--	--	--	--	--	--	--	--	--	--
28...	1220	ENVIRONMENTAL	340000	43	58	.057	.043	762	11.4	7.4	7.9	337
APR												
05...	1250	ENVIRONMENTAL	221000	49	70	.079	.059	761	11.3	7.4	7.9	409
05...	1258	FIELD BLANK	--	--	--	--	--	--	--	--	--	--
18...	1340	ENVIRONMENTAL	382000	50	71	.058	.043	767	9.0	7.9	7.9	335
MAY												
02...	1320	ENVIRONMENTAL	110000	9.4	23	.075	.055	758	10.0	8.0	7.9	332
02...	1330	REPLICATE	--	8.6	25	.076	.056	--	--	--	7.9	--
23...	1350	ENVIRONMENTAL	350000	40	52	.075	.055	752	6.9	7.5	8.0	385
23...	1358	FIELD BLANK	--	--	--	--	--	--	--	--	--	--
JUN												
27...	1240	ENVIRONMENTAL	14000	--	11	.093	.069	763	7.5	7.7	8.0	391
JUL												
11...	1320	ENVIRONMENTAL	215000	--	<.1	.079	.057	753	7.1	7.5	8.0	349
AUG												
02...	1430	ENVIRONMENTAL	269000	--	69	.082	.060	759	5.8	7.4	7.8	362
02...	1438	FIELD BLANK	--	--	--	--	<.004	--	--	--	--	--
22...	1430	ENVIRONMENTAL	106000	--	21	.064	.046	758	8.4	8.0	8.3	259
22...	1440	REPLICATE	--	--	19	--	--	--	--	--	--	--
SEP												
05...	1320	ENVIRONMENTAL	107000	--	14	.072	.052	758	7.5	7.9	8.2	268

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
NOV													
30...	10.5	9.0	170	44.8	13.3	3.42	22.2	110	96	118	--	27.6	.2
30...	--	--	--	M	<.001	--	<.025	--	--	--	--	--	--
DEC													
20...	.1	3.5	130	36.2	10.0	3.28	19.2	88	75	92	--	23.1	.2
JAN													
31...	5.0	4.0	120	34.2	8.43	2.61	15.4	88	84	103	--	21.2	E.1
31...	--	--	120	34.6	8.60	2.59	15.8	90	88	108	--	20.9	E.1
FEB													
21...	7.5	7.0	120	33.6	7.76	2.49	14.3	78	73	89	--	22.3	E.1
MAR													
14...	16.0	8.5	140	40.6	10.3	2.38	12.4	98	86	105	--	18.4	.2
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	16.0	9.0	120	34.0	8.81	1.91	14.6	77	76	93	--	19.6	E.1
APR													
05...	23.5	10.9	140	38.4	11.4	2.30	19.2	80	73	89	--	25.8	E.2
05...	--	--	--	.01	<.001	--	<.025	--	--	--	--	--	--
18...	17.5	15.5	120	33.9	9.43	1.95	14.4	77	66	80	--	20.7	E.1
MAY													
02...	27.0	20.0	120	34.8	9.05	2.22	13.3	86	82	52	24	19.1	E.1
02...	--	--	130	35.2	9.16	2.22	13.3	86	--	--	--	19.4	E.1
23...	23.5	23.0	140	38.2	11.6	2.52	17.2	85	78	95	--	25.2	.2
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
27...	28.5	27.0	160	43.9	12.4	2.63	14.5	107	103	126	--	20.4	E.2
JUL													
11...	33.5	29.0	130	33.2	10.8	2.37	14.9	89	86	105	--	18.9	E.2
AUG													
02...	35.5	30.5	130	33.8	10.1	2.93	18.6	82	81	99	--	21.6	E.2
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	34.0	29.0	89	24.7	6.52	2.24	12.3	71	67	82	--	12.0	E.1
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
05...	32.5	28.5	100	27.4	7.53	2.50	13.0	76	72	87	--	13.8	E.1

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)
NOV													
30...	5.5	59.6	249	<.041	.26	.45	1.45	.030	.062	.058	.086	.9	<.1
30...	<.02	--	--	.003	--	--	<.005	<.001	--	<.007	--	--	--
DEC													
20...	3.9	54.0	223	.103	.37	1.3	1.03	.009	.059	.049	.516	5.8	<.1
JAN													
31...	4.2	39.3	205	.092	.36	.55	1.37	.007	.051	.044	.113	1.1	<.1
31...	4.2	40.1	206	.094	.36	.53	1.38	.007	.050	.043	.115	1.1	<.1
FEB													
21...	4.9	34.5	188	.080	.35	.90	1.75	.014	.051	.043	.317	3.0	<.1
MAR													
14...	5.1	44.2	205	E.032	.22	.50	1.93	.015	.043	.037	.136	1.6	<.1
14...	--	--	--	--	--	--	--	--	--	--	--	<.1	<.1
28...	3.5	45.9	198	<.041	.21	.51	1.13	.014	.023	.016	.137	1.8	<.1
APR													
05...	3.7	60.9	236	<.041	.22	.70	1.22	.015	.019	.015	.147	2.4	<.1
05...	<.02	--	--	.005	--	--	.008	<.001	--	<.007	--	--	--
18...	3.1	47.4	190	<.041	.21	.66	1.09	.020	.027	.023	.180	2.2	<.1
MAY													
02...	3.0	43.1	197	<.041	.21	.40	1.26	<.006	.026	.018	.065	1.2	<.1
02...	3.0	43.1	210	<.041	.25	.38	1.26	.007	.024	.017	.065	1.2	<.1
23...	2.1	54.4	217	<.040	.25	.67	1.28	.027	<.006	.021	.141	3.2	<.1
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
27...	3.5	49.6	234	.045	.22	.39	1.91	.025	.049	.036	.061	1.5	<.1
JUL													
11...	1.9	42.5	195	.087	.36	.48	.862	.028	.028	.022	.082	1.7	<.1
AUG													
02...	3.3	55.3	195	<.040	.24	.66	.792	.014	.046	.039	.177	3.4	<.1
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	2.0	31.6	146	<.040	.22	.55	E.208	E.011	.040	.028	.104	2.8	<.1
22...	--	--	--	<.040	.22	.53	E.212	E.011	.040	.028	.104	--	--
SEP													
05...	3.3	32.1	156	<.040	.23	.44	.324	.030	.048	.037	.102	1.7	<.1

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	PHEO-PHYTIN A, PHYTO-PHYTON (UG/L) (62360)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
NOV													
30...	2.9	.9	3.9	5.2	2	.27	<2.0	73	.05	<.8	.18	2.3	<10
30...	--	--	--	--	M	<.20	--	<2	<.30	<.2	<.20	<.2	<3
DEC													
20...	2.9	5.7	12	3.6	3	.33	.8	55	E.03	<.8	.16	1.6	<10
JAN													
31...	2.6	1.1	5.1	7.9	--	--	.7	47	--	--	--	--	10
31...	2.6	1.1	5.5	9.8	--	--	.7	43	--	--	--	--	M
FEB													
21...	3.4	3.8	7.7	2.8	5	.10	.5	29	E.02	<.8	.13	1.4	20
MAR													
14...	2.7	1.6	5.8	2.8	--	--	.5	44	--	--	--	--	<10
14...	.23	<.1	--	--	--	--	--	--	--	--	--	--	--
28...	2.1	1.8	9.0	8.6	--	--	.4	30	--	--	--	--	M
APR													
05...	2.8	2.4	13	13.8	--	--	.4	49	--	--	--	--	10
05...	--	--	--	--	<.3	<.20	--	<2	<.30	<.2	<.20	<.2	<3
18...	2.1	2.2	10	6.2	--	--	.5	33	--	--	--	--	<10
MAY													
02...	2.7	1.2	10	10	--	--	.5	36	--	--	--	--	<10
02...	2.7	1.2	7.4	10	--	--	.6	35	--	--	--	--	M
23...	2.9	3.1	13	8.3	--	--	.6	51	--	--	--	--	<10
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
27...	3.1	1.5	--	--	6	.19	1.0	49	<.04	<.8	.13	1.8	M
JUL													
11...	3.5	1.6	--	--	--	--	.9	53	--	--	--	--	<10
AUG													
02...	2.7	3.4	--	--	--	--	.9	56	--	--	--	--	<10
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	2.6	2.8	--	--	--	--	1.4	47	--	--	--	--	<10
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
05...	2.8	1.7	--	--	18	.18	1.2	48	<.04	<.8	.12	1.3	20

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)
NOV													
30...	E.06	4.8	3.7	4.0	1.53	<2.4	<1.0	238	<8.0	5	<.002	.008	<.002
30...	<.30	--	<.1	<.2	<.50	--	<.2	<.10	--	8	--	--	--
DEC													
20...	<.08	5.0	3.6	3.3	1.38	.5	<1.0	223	1.4	5	<.002	.013	<.023
JAN													
31...	--	3.0	--	--	--	.4	--	169	.5	--	<.002	.020	<.002
31...	--	2.7	--	--	--	.4	--	169	.5	--	<.002	.019	<.002
FEB													
21...	E.06	2.3	3.9	1.3	1.04	.4	<1.0	139	.9	3	<.002	<.004	<.002
MAR													
14...	--	2.7	--	--	--	.3	--	164	.6	--	<.002	<.004	.006
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	3.2	--	--	--	.4	--	163	.7	--	<.002	<.004	<.002
APR													
05...	--	4.1	--	--	--	E.3	--	190	.4	--	<.002	.005	<.002
05...	<.30	--	<.1	<.2	<.50	--	<.2	<.10	--	<.5	--	--	--
18...	--	3.7	--	--	--	E.2	--	173	.4	--	<.002	.009	<.002
MAY													
02...	--	3.2	--	--	--	E.3	--	193	.7	--	<.002	.024	.005
02...	--	3.1	--	--	--	E.2	--	192	.7	--	<.002	.022	.005
23...	--	4.5	--	--	--	.4	--	223	.6	--	<.002	.136	.010
23...	--	--	--	--	--	--	--	--	--	--	<.002	<.004	<.002
JUN													
27...	<.08	2.9	.6	2.8	.64	.4	<1.0	196	1.2	1	<.002	.078	.005
JUL													
11...	--	3.5	--	--	--	.4	--	187	1.0	--	<.002	.044	.003
AUG													
02...	--	4.3	--	--	--	E.3	--	191	1.2	--	<.002	.018	.005
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	2.1	--	--	--	.5	--	126	1.2	--	<.002	<.004	<.002
22...	--	--	--	--	--	--	--	--	--	--	<.002	<.004	<.002
SEP													
05...	<.08	2.9	4.3	2.3	.36	E.2	<1.0	122	1.1	2	<.002	.006	<.002

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)
NOV													
30...	<.005	.142	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.037	E.003	<.005	<.021
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
20...	<.005	.088	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.028	<.005	<.005	<.021
JAN													
31...	<.005	.052	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.017	<.005	<.005	<.021
31...	<.005	.049	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.018	<.005	<.005	<.021
FEB													
21...	<.005	.039	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.018	<.005	<.005	<.021
MAR													
14...	<.005	.049	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.016	<.005	<.005	<.021
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<.005	.016	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.007	<.005	<.005	<.021
APR													
05...	<.005	.618	<.010	<.002	E.007	<.020	<.005	<.018	<.003	E.015	E.003	<.005	<.021
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	<.005	.171	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.011	E.002	<.005	<.021
MAY													
02...	<.005	.204	<.010	<.002	<.041	<.020	E.003	E.009	<.003	E.017	E.005	<.005	<.021
02...	<.005	.196	<.010	<.002	<.041	<.020	E.003	E.009	<.003	E.018	E.004	<.005	<.021
23...	<.005	1.40	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.105	.007	<.005	<.021
23...	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.021
JUN													
27...	<.005	1.00	<.010	<.002	<.041	<.020	<.005	E.005	<.003	E.252	E.004	<.005	<.021
JUL													
11...	<.005	.542	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.081	E.003	<.005	<.021
AUG													
02...	<.005	.216	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.038	<.005	<.005	<.021
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	<.005	.105	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.013	<.005	<.005	<.021
22...	<.005	.110	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.018	E.003	<.005	<.021
SEP													
05...	<.005	.091	<.010	<.002	<.041	<.020	<.005	E.007	<.003	E.019	E.003	<.005	<.021

DATE	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
NOV													
30...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.037	<.006	<.002	<.007
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
20...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.019	<.006	<.002	<.007
JAN													
31...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.019	<.006	<.002	<.007
31...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.018	<.006	<.002	<.007
FEB													
21...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.021	<.006	<.002	<.007
MAR													
14...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.035	<.006	<.002	<.007
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.008	<.006	<.002	<.007
APR													
05...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.032	<.006	<.002	<.007
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.038	E.005	<.002	<.007
MAY													
02...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.060	.017	<.002	<.007
02...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.058	.017	<.002	<.007
23...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.359	.015	<.002	<.007
23...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007
JUN													
27...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.255	.007	<.002	<.007
JUL													
11...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.121	<.006	<.002	<.007
AUG													
02...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.051	<.006	<.002	<.007
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.012	<.006	<.002	<.007
22...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.012	<.006	<.002	<.007
SEP													
05...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.019	<.006	<.002	<.007

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
NOV													
30...	<.003	<.007	<.002	<.010	<.006	<.011	E.010	<.004	<.010	<.011	<.023	.072	<.016
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
20...	<.003	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	.140	E.009
JAN													
31...	<.003	<.007	<.002	<.010	<.006	<.011	E.004	<.004	<.010	<.011	<.023	.040	E.011
31...	<.003	<.007	<.002	<.010	<.006	<.011	E.004	<.004	<.010	<.011	<.023	.039	E.011
FEB													
21...	<.003	<.007	<.002	<.010	<.006	<.011	E.003	<.004	<.010	<.011	<.023	.062	<.016
MAR													
14...	<.003	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	.036	<.016
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<.003	<.007	<.002	<.010	<.006	<.011	E.004	<.004	<.010	<.011	<.023	E.011	<.016
APR													
05...	<.003	<.007	<.002	<.010	<.006	<.011	E.003	<.004	<.010	<.011	<.023	.085	<.016
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	<.003	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	.039	<.016
MAY													
02...	<.003	<.007	<.002	<.010	<.006	<.011	E.003	<.004	<.010	<.011	<.023	.048	E.009
02...	<.003	<.007	<.002	<.010	<.006	<.011	E.003	<.004	<.010	<.011	<.023	.048	E.008
23...	<.003	<.007	<.002	<.010	<.006	<.011	E.014	<.004	<.010	<.011	<.023	.519	E.006
23...	<.003	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016
JUN													
27...	<.003	<.007	<.002	<.010	<.006	<.011	E.012	<.004	<.010	<.011	<.023	.162	E.010
JUL													
11...	E.001	<.007	<.002	<.010	<.006	<.011	E.015	<.004	<.010	<.011	<.023	.095	E.011
AUG													
02...	<.003	<.007	<.002	<.010	<.006	<.011	.018	<.004	<.010	<.011	<.023	.044	E.009
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	<.003	<.007	<.002	<.010	<.006	<.011	E.011	<.004	<.010	<.011	<.023	.014	<.016
22...	<.003	<.007	<.002	<.010	<.006	<.011	E.011	<.004	<.010	<.011	<.023	.014	<.016
SEP													
05...	<.003	<.007	<.002	<.010	<.006	<.011	.018	<.004	<.010	<.011	<.023	.016	E.016

DATE	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV						
30...	<.034	<.017	<.005	<.002	93	19
30...	--	--	--	--	--	--
DEC						
20...	<.034	<.017	<.005	<.002	90	431
JAN						
31...	<.034	<.017	<.005	<.002	97	37
31...	<.034	<.017	<.005	<.002	--	--
FEB						
21...	<.034	<.017	<.005	<.002	92	217
MAR						
14...	<.034	<.017	<.005	<.002	99	57
14...	--	--	--	--	--	--
28...	<.034	<.017	<.005	<.002	98	87
APR						
05...	<.034	<.017	<.005	<.002	99	97
05...	--	--	--	--	--	--
18...	<.034	<.017	<.005	<.002	98	125
MAY						
02...	<.034	<.017	<.005	<.002	100	18
02...	<.034	<.017	<.005	<.002	--	--
23...	<.034	<.017	<.005	<.002	98	85
23...	<.034	<.017	<.005	<.002	--	--
JUN						
27...	<.034	<.017	<.005	<.002	98	12
JUL						
11...	<.034	<.017	<.005	<.002	98	43
AUG						
02...	<.034	<.017	<.005	<.002	99	102
02...	--	--	--	--	--	--
22...	<.034	<.017	<.005	<.002	99	29
22...	<.034	<.017	<.005	<.002	--	--
SEP						
05...	<.034	<.017	<.005	<.002	--	--

E Estimated
M Presence of material verified but not quantified

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 mi^2.

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 and crest-stage gage. 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.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)

No peak greater than base discharge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

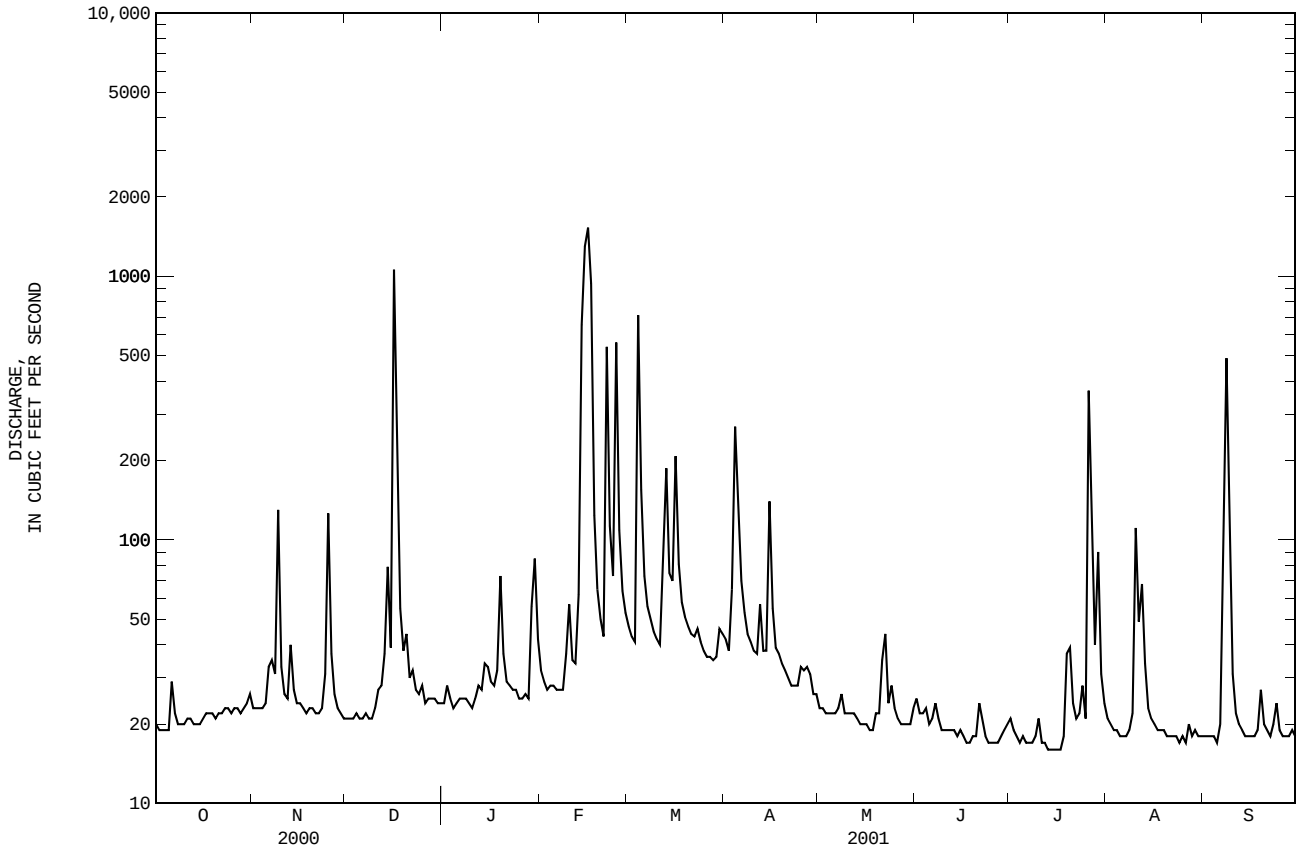
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	23	21	24	32	47	42	23	25	21	21	18
2	19	23	21	28	29	43	38	23	22	19	20	18
3	19	23	21	25	27	41	65	22	22	18	19	18
4	19	23	22	23	28	712	269	22	23	17	19	18
5	19	24	21	24	28	155	123	22	20	18	18	17
6	29	33	21	25	27	73	70	22	21	17	18	20
7	22	35	22	25	27	56	53	23	24	17	18	144
8	20	31	21	25	27	50	44	26	21	17	19	489
9	20	130	21	24	37	45	41	22	19	18	22	93
10	20	33	23	23	57	42	38	22	19	21	111	31
11	21	26	27	25	35	40	37	22	19	17	49	22
12	21	25	28	28	34	77	57	22	19	17	68	20
13	20	40	37	27	62	187	38	21	19	16	34	19
14	20	27	79	34	654	75	38	20	18	16	23	18
15	20	24	39	33	1300	70	140	20	19	16	21	18
16	21	24	1060	29	1530	208	55	20	18	16	20	18
17	22	23	326	28	938	81	39	19	17	16	19	18
18	22	22	55	32	124	58	37	19	17	18	19	19
19	22	23	38	73	65	51	34	22	18	37	19	27
20	21	23	44	37	50	47	32	22	18	39	18	20
21	22	22	30	29	43	44	30	35	24	24	18	19
22	22	22	32	28	540	43	28	44	21	21	18	18
23	23	23	27	27	113	46	28	24	18	22	18	20
24	23	31	26	27	73	41	28	28	17	28	17	24
25	22	126	28	25	561	38	33	23	17	21	18	19
26	23	37	24	25	109	36	32	21	17	368	17	18
27	23	26	25	26	64	36	33	20	17	102	20	18
28	22	23	25	25	53	35	31	20	18	40	18	18
29	23	22	25	56	---	36	26	20	19	90	19	19
30	24	21	24	85	---	46	26	20	20	31	18	18
31	26	---	24	42	---	44	---	23	---	24	18	---
TOTAL	670	988	2237	987	6667	2603	1585	712	586	1162	774	1256
MEAN	21.6	32.9	72.2	31.8	238	84.0	52.8	23.0	19.5	37.5	25.0	41.9
MAX	29	130	1060	85	1530	712	269	44	25	368	111	489
MIN	19	21	21	23	27	35	26	19	17	16	17	17
CFSM	.31	.48	1.05	.46	3.47	1.22	.77	.33	.28	.55	.36	.61
IN.	.36	.53	1.21	.53	3.61	1.41	.86	.39	.32	.63	.42	.68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	32.3	79.5	125	152	185	209	136	104	75.0	58.2	39.8	34.5
MAX	165	520	557	586	672	1138	335	470	419	397	206	268
(WY)	1985	1958	1991	1950	1989	1975	1970	1978	1976	1976	1977	1977
MIN	7.27	9.41	12.1	12.7	16.2	14.2	18.6	12.1	11.7	10.7	9.43	8.74
(WY)	1944	1944	1944	1944	1941	1941	1986	1969	1952	1943	1953	1941

07024000 BAYOU DE CHIEN NEAR CLINTON, KY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL TOTAL	35828		20227			
ANNUAL MEAN	97.9		55.4		102	
HIGHEST ANNUAL MEAN					268	1976
LOWEST ANNUAL MEAN					18.7	1941
HIGHEST DAILY MEAN	3400	May 28	1530	Feb 16	7150	Jan 2 1966
LOWEST DAILY MEAN	16	Aug 16	16	Jul 13	4.0	May 29 1943
ANNUAL SEVEN-DAY MINIMUM	17	Aug 30	16	Jul 11	4.7	Jun 20 1942
MAXIMUM PEAK FLOW			1600	Feb 16	9460	Jan 2 1966
MAXIMUM PEAK STAGE			14.20	Feb 16	16.48	Mar 2 1997
ANNUAL RUNOFF (CFSM)	1.42		.81		1.49	
ANNUAL RUNOFF (INCHES)	19.40		10.95		20.21	
10 PERCENT EXCEEDS	111		70		186	
50 PERCENT EXCEEDS	27		24		24	
90 PERCENT EXCEEDS	19		18		11	



DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

Crest-stage partial-record stations

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

Annual maximum discharge at crest-stage partial-record stations during water year 2001

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		CUMBERLAND RIVER BASIN					
03400500	Poor Fork at Cumberland, Ky.	Lat 36°58’26”, long 82°59’38”, Harlan County, Hydrologic Unit 05130101, at left upstream side of New York Avenue bridge at Cumberland, 250 ft upstream from Cloverlick Creek, 0.6 mi downstream from Looney Creek, and at river mile 718.8.	82.3	1941-92†, 1993-2001	02-16-01	9.03	3,630
03404820	Laurel River at Municipal Dam, near Corbin, Ky.	Lat 36°58’13”, long 84°07’11”, Lauren County, Hydrologic Unit 05130101, on left bank adjacent to State Highway 709, 200 ft upstream from Corbin Municipal Dam, 0.1 mi upstream from Lynn Camp Creek, 2.0 mi northwest of Corbin, and at mile 21.4.	140	1974-92†, 1993-2001	02-16-01	22.88	3,240

†Operated as a continuous-record gaging station.

Discharge Measurements made at miscellaneous sites during water year 2001

Station no.	Station name	Location	Period of record	Date	Discharge (ft^3/s)
		GREEN RIVER BASIN			
03316000	Mud River near Lewisburg, Ky.	Lat 37×°00’15”, Long 86°54’26”, Logan County, Hydrologic Unit 05110003, at upstream side of bridge on State Highway 106, 2.5 mi northeast of Lewisburg, 7.5 mi downstream from Motts Lick Creek, and 14.0 mi upstream from Wolf Lick Creek.	2001	10-12-00 08-16-01	4.10 3.85

364832086313701 DRAKES SPRING NEAR WOODBURN, KENTUCKY

WATER-QUALITY RECORDS

LOCATION.--Lat 36°48°32, long 86°31°37, Simpson County, Hydrologic Unit 05110002

PERIOD OF RECORD.--May to September 2001

REMARKS.--Samples collected every two weeks from May 30, 2001 to September 6, 2001

COOPERATION.--Kentucky Department of Agriculture.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
JUN												
01...	1025	ENVIRONMENTAL	24	5.2	8.6	7.2	384	14.8	132	161	<.040	999
14...	1915	ENVIRONMENTAL	19	1.9	8.8	7.5	376	15.3	134	164	<.040	6.41
28...	1155	ENVIRONMENTAL	8.2	2.2	9.9	7.4	270	15.3	168	204	<.040	5.71
JUL												
11...	1140	ENVIRONMENTAL	20	26	7.9	7.2	354	17.2	145	176	<.040	5.23
26...	1130	ENVIRONMENTAL	17	4.5	8.8	7.3	419	15.9	185	226	<.040	5.41
AUG												
09...	1130	ENVIRONMENTAL	6.0	3.9	8.0	7.3	410	17.0	170	207	E.027	5.08
23...	1150	ENVIRONMENTAL	4.5	2.1	7.6	7.1	434	16.2	192	234	<.040	5.03
SEP												
06...	1120	ENVIRONMENTAL	5.0	2.9	8.5	7.3	469	16.2	--	--	<.040	4.83

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)
JUN													
01...	.034	.048	<.002	<.004	.006	<.005	.801	<.010	<.002	<.041	<.020	<.005	<.018
14...	.035	.043	<.002	E.004	.005	<.005	.349	<.010	<.002	<.041	<.020	<.005	<.018
28...	.043	.050	--	--	--	--	--	--	--	--	--	--	--
JUL													
11...	.087	.139	<.002	<.004	.010	<.005	.183	<.010	<.002	E.017	<.020	<.005	<.018
26...	.052	.067	<.002	<.004	<.002	<.005	.142	<.010	<.002	<.041	<.020	<.005	<.018
AUG													
09...	.078	.095	<.002	.005	<.002	<.005	.130	<.010	<.002	<.041	<.020	<.005	<.018
23...	.053	.064	<.002	<.004	<.004	<.005	.160	<.010	<.002	<.041	<.020	<.005	<.018
SEP													
06...	.058	.070	<.002	<.004	.003	<.005	.108	<.010	<.002	<.041	<.020	<.005	<.018

DATE	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)
JUN													
01...	<.003	E.552	95	<.005	<.005	<.021	<.002	<.009	<.005	<.003	93	<.004	<.035
14...	<.003	E.164	102	<.005	<.005	<.021	<.002	<.009	<.005	<.003	88	<.004	<.035
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
11...	<.003	E.072	110	<.005	<.005	<.021	<.002	<.009	<.005	<.003	94	<.004	<.035
26...	<.003	E.282	114	<.005	<.005	<.021	<.002	<.009	<.005	<.003	100	<.004	<.035
AUG													
09...	<.003	E.212	111	<.005	<.005	<.021	<.002	<.009	<.005	<.003	106	<.004	<.035
23...	<.003	<.006	105	<.005	<.005	<.021	<.002	<.009	<.005	<.003	111	<.004	<.035
SEP													
06...	<.003	<.006	93	<.005	<.005	<.021	<.002	<.009	<.005	<.003	97	<.004	<.035

364832086313701 DRAKES SPRING NEAR WOODBURN, KENTUCKY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
JUN						
01...	<.027	E.007	<.006	.072	<.006	<.002
14...	<.027	<.050	<.006	.020	<.006	<.002
28...	--	--	--	--	--	--
JUL						
11...	<.027	<.050	<.006	.035	<.006	<.002
26...	<.027	<.050	<.006	E.012	<.006	<.002
AUG						
09...	<.027	<.050	<.006	E.013	<.006	<.002
23...	<.027	<.050	<.006	E.008	<.006	<.002
SEP						
06...	<.027	<.050	<.006	E.006	<.006	<.002

365415086435001 CRAWFORD BLUE HOLE SPRING NEAR AUBURN, KENTUCKY

WATER-QUALITY RECORDS

LOCATION.--Lat 36°54°15, long 86°43°50, Logan County, Hydrologic Unit 05110002

PERIOD OF RECORD.--May to September 2001

REMARKS.--Samples collected every two weeks from May 30, 2001 to September 6, 2001

COOPERATION.--Kentucky Department of Agriculture.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)
JUN												
15...	1125	ENVIRONMENTAL	--	7.4	7.4	269	16.0	213	260	<.040	8.09	.063
28...	0820	ENVIRONMENTAL	5.6	7.4	7.4	623	16.6	216	263	<.040	6.52	.095
JUL												
11...	0830	ENVIRONMENTAL	4.7	3.6	7.6	586	21.6	226	274	.124	5.59	.071
26...	1020	ENVIRONMENTAL	30	5.0	7.7	498	22.5	202	244	.080	4.95	.050
AUG												
09...	0830	ENVIRONMENTAL	6.5	4.2	7.8	621	23.4	220	267	.142	4.94	.064
23...	0840	ENVIRONMENTAL	3.1	3.0	7.1	647	21.0	216	262	<.040	5.01	.016
SEP												
06...	0830	ENVIRONMENTAL	5.5	3.0	7.3	563	21.0	166	201	.133	3.89	.151

DATE	PHOSPHORUS TOTAL (MG/L AS P) (00665)	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)
JUN													
15...	.097	<.002	<.004	<.002	<.005	.529	<.010	<.002	<.041	<.020	<.005	<.018	<.003
28...	.111	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
11...	.089	<.002	<.004	<.002	<.005	.278	<.010	<.002	<.041	<.020	<.005	<.018	<.003
26...	.142	<.002	<.004	<.002	<.005	.166	<.010	<.002	<.041	<.020	<.005	<.018	<.003
AUG													
09...	.089	<.002	<.004	<.002	<.005	.150	<.010	<.002	<.041	<.020	<.005	<.018	<.003
23...	.058	<.002	<.004	<.015	<.005	.159	<.010	<.002	<.041	<.020	<.005	<.018	<.003
SEP													
06...	.185	<.002	<.004	<.002	<.005	.130	<.010	<.002	<.041	<.020	<.005	<.018	<.003

DATE	DEETHYLATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	DISULFOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHALFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHOPROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)
JUN													
15...	E.126	99	<.005	<.005	<.021	<.002	<.009	<.005	<.003	85	<.004	<.035	<.027
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
11...	E.301	147	<.005	<.005	<.021	<.002	<.009	<.005	<.003	103	<.004	<.035	<.027
26...	E.186	118	<.005	<.005	<.021	<.002	<.009	<.005	<.003	98	<.004	<.035	<.027
AUG													
09...	E.180	111	<.005	<.005	<.021	<.002	<.009	<.005	<.003	102	<.004	<.035	E.020
23...	<.006	102	<.005	<.005	<.021	<.002	<.009	<.005	<.003	102	<.004	<.035	<.027
SEP													
06...	<.006	100	.005	<.005	<.021	<.002	<.009	<.005	<.003	101	<.004	<.035	E.024

365415086435001 CRAWFORD BLUE HOLE SPRING NEAR AUBURN, KENTUCKY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
JUN					
15...	<.050	<.006	.023	<.006	<.002
28...	--	--	--	--	--
JUL					
11...	<.050	<.006	.018	<.006	<.002
26...	<.050	<.006	.015	<.006	<.002
AUG					
09...	<.050	<.006	.016	<.006	<.002
23...	<.050	<.006	.016	<.006	<.002
SEP					
06...	<.050	<.006	.050	<.006	<.002

365526086382801 FINNEY SPRING NEAR SOUTH UNION, KENTUCKY

WATER-QUALITY RECORDS

LOCATION.--Lat 36°55°26, long 86°38°28, Logan County, Hydrologic Unit 05110002, on State Highway 1466

PERIOD OF RECORD.--May to September 2001

REMARKS.--Samples collected every two weeks from May 30, 2001 to September 6, 2001

COOPERATION.--Kentucky Department of Agriculture.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
JUN												
01...	0855	ENVIRONMENTAL	29	150	7.1	6.8	356	14.9	146	178	.117	999
15...	0915	ENVIRONMENTAL	8.6	3.7	8.6	7.3	484	14.1	453	257	<.040	8.39
28...	1000	ENVIRONMENTAL	8.5	57	8.5	7.1	451	14.5	183	223	<.040	6.68
JUL												
11...	0955	ENVIRONMENTAL	8.6	88	6.0	7.2	317	15.8	131	159	.045	5.12
26...	0835	ENVIRONMENTAL	16	6.6	8.3	7.2	474	14.6	131	159	<.040	6.22
AUG												
09...	1005	ENVIRONMENTAL	3.2	12	7.2	7.2	460	15.1	212	258	E.026	5.99
23...	1020	ENVIRONMENTAL	3.4	3.9	5.6	7.0	501	15.3	246	299	<.040	6.25
SEP												
06...	1005	ENVIRONMENTAL	4.4	7.1	7.5	7.0	410	15.0	--	--	<.040	5.71

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)
JUN													
01...	.105	.273	<.002	<.004	<.002	<.005	7.40	<.010	<.002	E.003	<.020	<.005	<.018
15...	.027	.034	<.002	E.003	<.002	<.005	.398	<.010	<.002	<.041	<.020	<.005	<.018
28...	.175	.211	--	--	--	--	--	--	--	--	--	--	--
JUL													
11...	.179	.282	<.002	<.004	<.002	<.005	.443	<.010	<.002	<.041	<.020	<.005	<.018
26...	.053	.066	<.002	E.004	<.002	<.005	.338	<.010	<.002	<.041	<.020	<.005	<.018
AUG													
09...	.065	.095	<.002	<.004	<.002	<.005	.233	<.010	<.002	<.041	<.020	<.005	<.018
23...	.044	.051	<.002	<.004	<.002	<.005	.223	<.010	<.002	<.041	<.020	<.005	<.018
SEP													
06...	.041	.071	<.002	E.003	.004	<.005	.196	<.010	<.002	<.041	<.020	<.005	<.018

DATE	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)
JUN													
01...	<.003	E.814	103	E.005	<.005	<.021	<.002	<.009	<.005	<.003	93	<.004	<.035
15...	<.003	E.770	101	<.005	<.005	<.021	<.002	<.009	<.005	<.003	89	<.004	<.035
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
11...	<.003	E.344	143	<.005	<.005	<.021	<.002	<.009	<.005	<.003	112	<.004	<.035
26...	<.003	E.115	106	<.005	<.005	<.021	<.002	<.009	<.005	<.003	102	<.004	<.035
AUG													
09...	<.003	E.322	95	<.005	<.005	<.021	<.002	<.009	<.005	<.003	85	<.004	<.035
23...	<.003	<.006	115	<.005	<.005	<.021	<.002	<.009	<.005	<.003	112	<.004	<.035
SEP													
06...	<.003	<.006	99	<.005	<.005	<.021	<.002	<.009	<.005	<.003	103	<.004	<.035

365526086382801 FINNEY SPRING NEAR SOUTH UNION, KENTUCKY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
JUN						
01...	<.027	<.050	<.006	.058	<.006	<.002
15...	<.027	<.050	<.006	.022	E.003	<.002
28...	--	--	--	--	--	--
JUL						
11...	<.027	<.050	<.006	.343	<.006	<.002
26...	<.027	<.050	<.006	.019	<.006	<.002
AUG						
09...	<.027	<.050	<.006	.022	<.006	<.002
23...	<.027	<.050	<.006	.015	<.006	<.002
SEP						
06...	<.027	<.050	<.006	.016	<.006	<.002

365713086282103 LOST RIVER BLUE HOLE SPRING NEAR BOWLING GREEN, KENTUCKY

WATER-QUALITY RECORDS

LOCATION.--Lat 36°57°13, long 86°28°21, Warren County, Hydrologic Unit 05110002 at the Lost River Cave and Valley, 5.1 miles east of Natcher Parkway.

PERIOD OF RECORD.--May to September 2001

REMARKS.--Samples collected every two weeks from May 30, 2001 to September 6, 2001

COOPERATION.--Kentucky Department of Agriculture.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
JUN												
01...	1435	ENVIRONMENTAL	33	23	8.0	6.8	414	14.8	140	170	<.040	999
14...	1310	ENVIRONMENTAL	13	1.7	8.1	7.1	442	14.9	199	242	<.040	5.28
27...	1350	ENVIRONMENTAL	19	2.4	8.1	7.0	488	14.9	208	254	E.025	4.95
JUL												
11...	1325	ENVIRONMENTAL	7.4	1.3	7.8	7.0	470	14.8	205	250	<.040	5.49
25...	1715	ENVIRONMENTAL	7.0	2.8	8.2	6.9	528	15.2	216	263	<.040	4.96
AUG												
09...	1310	ENVIRONMENTAL	14	87	5.6	7.1	484	15.8	218	265	E.026	3.81
22...	1735	ENVIRONMENTAL	11	1.4	6.5	6.6	496	15.8	222	270	E.022	5.29
SEP												
05...	1620	ENVIRONMENTAL	8.2	--	7.5	6.8	513	15.5	224	273	<.040	4.57

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)
JUN													
01...	.049	.085	<.002	.099	<.002	<.005	.612	<.010	<.002	<.041	<.020	.011	<.018
14...	.039	.046	<.002	.044	<.002	<.005	.234	<.010	<.002	<.041	<.020	<.005	<.018
27...	.039	.047	<.002	.070	<.002	<.005	.223	<.010	<.002	<.041	<.020	<.005	<.018
JUL													
11...	.045	.051	<.002	.043	<.002	<.005	.149	<.010	<.002	E.006	<.020	<.005	<.018
25...	.067	.074	<.002	.049	<.002	<.005	.314	<.010	<.002	<.041	<.020	<.005	<.018
AUG													
09...	.044	.117	<.002	.055	<.002	<.005	.251	<.010	<.002	<.041	<.020	<.005	<.018
22...	.049	.058	<.002	.059	<.002	<.005	.167	<.010	<.002	<.041	<.020	<.005	<.018
SEP													
05...	.050	.060	<.002	.061	<.002	<.005	.110	<.010	<.002	E.005	<.020	<.005	<.018

DATE	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)
JUN													
01...	<.003	E.318	105	<.005	<.005	<.021	<.002	<.009	<.005	<.003	99	<.004	<.035
14...	<.003	E.372	102	<.005	<.005	<.021	<.002	<.009	<.005	<.003	90	<.004	<.035
27...	<.003	<.006	110	<.005	<.005	<.021	<.002	<.009	<.005	<.003	109	<.004	<.035
JUL													
11...	<.003	E.245	141	<.005	<.005	<.021	<.002	<.009	<.005	<.003	112	<.004	<.035
25...	<.003	E.156	111	E.002	<.005	<.021	<.002	<.009	<.005	<.003	96	<.004	<.035
AUG													
09...	<.003	E.115	112	<.005	<.005	<.021	<.002	<.009	<.005	<.003	96	<.004	<.035
22...	<.003	<.006	112	<.005	<.005	<.021	<.002	<.009	<.005	<.003	116	<.004	<.035
SEP													
05...	<.003	<.006	96	<.005	<.005	<.021	<.002	<.009	<.005	<.003	99	<.004	<.035

365713086282103 LOST RIVER BLUE HOLE SPRING NEAR BOWLING GREEN, KENTUCKY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
JUN						
01...	<.027	<.050	<.006	.060	<.006	<.002
14...	<.027	<.050	<.006	.035	.006	<.002
27...	<.027	<.050	<.006	.057	.007	<.002
JUL						
11...	<.027	<.050	<.006	.041	.011	<.002
25...	<.027	<.050	<.006	.054	.010	<.002
AUG						
09...	<.027	<.050	<.006	.065	.009	<.002
22...	<.027	<.050	<.006	.073	.010	<.002
SEP						
05...	<.027	<.050	<.006	.062	.010	<.002

371044085542001 HIDDEN RIVER CAVE AT HORSE CAVE, KENTUCKY

WATER-QUALITY RECORDS

LOCATION.--Lat 37°10°44, long 85°54°20, Hart County, Hydrologic Unit 05110002 at Hidden River Cave Musuem in Horse Cave, Kentucky

PERIOD OF RECORD.--May to September 2001

REMARKS.--Samples collected every two weeks from May 30, 2001 to September 6, 2001

COOPERATION.--Kentucky Department of Agriculture.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
MAY												
31...	1745	ENVIRONMENTAL	8.6	3.2	8.7	6.8	507	14.5	197	240	<.040	5.91
JUN												
14...	1640	ENVIRONMENTAL	25	8.1	8.3	7.0	473	14.6	116	141	<.040	5.28
27...	1750	ENVIRONMENTAL	5.5	3.6	9.6	6.9	525	14.6	231	281	<.040	5.71
JUL												
10...	1605	ENVIRONMENTAL	6.3	1.4	9.0	6.9	544	14.6	232	283	<.040	5.16
25...	1505	ENVIRONMENTAL	4.6	5.1	8.7	7.0	506	14.8	229	279	<.040	4.77
AUG												
08...	1530	ENVIRONMENTAL	5.3	5.9	8.4	6.9	507	15.1	224	272	E.032	4.39
22...	1525	ENVIRONMENTAL	5.8	1.4	8.4	6.7	570	14.7	242	294	<.040	4.95
SEP												
05...	1420	ENVIRONMENTAL	3.0	1.1	8.7	6.9	581	14.6	239	291	<.040	4.58

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)
MAY													
31...	.051	.060	<.002	<.004	<.002	<.005	.250	<.010	<.002	<.041	<.020	<.005	<.018
JUN													
14...	.044	.056	<.002	<.004	<.002	<.005	.146	<.010	<.002	<.041	<.020	<.005	<.018
27...	.049	.053	<.002	<.004	<.002	<.005	.125	<.010	<.002	<.041	<.020	<.005	<.018
JUL													
10...	.043	.050	<.002	<.004	<.002	<.005	.070	<.010	<.002	<.041	<.020	<.005	<.018
25...	.071	.081	<.002	<.004	<.002	<.005	.067	<.010	<.002	<.041	<.020	<.005	<.018
AUG													
08...	.078	.092	<.002	<.004	<.002	<.005	.104	<.010	<.002	<.041	<.020	<.005	<.018
22...	.051	.060	<.002	<.004	<.002	<.005	.086	<.010	<.002	<.041	<.020	<.005	<.018
SEP													
05...	.046	.052	<.002	<.004	<.002	<.005	.061	<.010	<.002	<.041	<.020	<.005	<.018

DATE	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)
MAY													
31...	<.003	E.184	93	<.005	<.005	<.021	<.002	<.009	<.005	<.003	90	<.004	<.035
JUN													
14...	<.003	E.052	104	<.005	<.005	<.021	<.002	<.009	<.005	<.003	90	<.004	<.035
27...	<.003	<.006	108	<.005	<.005	<.021	<.002	<.009	<.005	<.003	100	<.004	<.035
JUL													
10...	<.003	E.085	119	<.005	<.005	<.021	<.002	<.009	<.005	<.003	100	<.004	<.035
25...	<.003	E.024	105	<.005	<.005	<.021	<.002	<.009	<.005	<.003	101	<.004	<.035
AUG													
08...	<.003	E.079	115	<.005	<.005	<.021	<.002	<.009	<.005	<.003	102	<.004	<.035
22...	<.003	<.006	102	<.005	E.003	<.021	<.002	<.009	<.005	<.003	102	<.004	<.035
SEP													
05...	<.003	<.006	102	<.005	<.005	<.021	<.002	<.009	<.005	<.003	103	<.004	<.035

371044085542001 HIDDEN RIVER CAVE AT HORSE CAVE, KENTUCKY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
MAY						
31...	<.027	<.050	<.006	.104	<.006	<.002
JUN						
14...	<.027	<.050	<.006	.072	<.006	<.002
27...	<.027	<.050	<.006	.069	<.006	<.002
JUL						
10...	<.027	<.050	<.006	.047	<.006	<.002
25...	<.027	<.050	<.006	.079	<.006	<.002
AUG						
08...	<.027	<.050	<.006	.156	E.005	<.002
22...	<.027	<.050	<.006	.232	<.006	<.002
SEP						
05...	<.027	<.050	<.006	.066	<.006	<.002

371528085545301 GORIN MILLS SPRING NEAR MUNFORDVILLE,KENTUCKY

WATER-QUALITY RECORDS

LOCATION.--Lat 37°15°28, long 85°54°53, Hart County, Hydrologic Unit 05110001.

PERIOD OF RECORD.--May to September 2001

REMARKS.--Samples collected every two weeks from May 30, 2001 to September 6, 2001

COOPERATION.--Kentucky Department of Agriculture.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
MAY												
31...	1415	ENVIRONMENTAL	41	5.1	7.4	6.8	492	14.5	198	241	<.040	5.13
JUN												
14...	1330	ENVIRONMENTAL	50	6.8	7.5	6.9	410	14.7	192	234	<.040	5.10
27...	1525	ENVIRONMENTAL	40	4.7	8.2	6.9	533	14.7	224	273	<.040	4.64
JUL												
10...	1345	ENVIRONMENTAL	35	3.5	6.4	7.0	551	14.5	208	254	<.040	4.66
25...	1255	ENVIRONMENTAL	34	4.2	7.4	6.9	592	14.6	233	284	<.040	4.41
AUG												
08...	1330	ENVIRONMENTAL	29	2.9	7.8	6.9	588	14.8	231	281	E.033	4.19
22...	1350	ENVIRONMENTAL	29	1.8	6.8	6.8	619	15.1	235	287	E.032	4.47
SEP												
05...	1245	ENVIRONMENTAL	25	1.8	7.6	6.9	642	14.6	239	292	<.040	4.40

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)
MAY													
31...	.061	.079	<.002	<.004	<.002	<.005	.447	<.010	<.002	<.041	<.020	<.005	<.018
JUN													
14...	.049	.065	<.002	<.004	<.002	<.005	.145	<.010	<.002	<.041	E.008	<.005	<.018
27...	.046	.053	--	--	--	--	--	--	--	--	--	--	--
JUL													
10...	.053	.067	<.002	<.004	<.002	<.005	.097	<.010	<.002	<.041	<.020	<.005	<.018
25...	.046	.053	<.002	<.004	<.002	<.005	.058	<.010	<.002	<.041	<.020	<.005	<.018
AUG													
08...	.066	.073	<.002	<.004	<.002	<.005	.119	<.010	<.002	<.041	<.020	<.005	<.018
22...	.061	.073	<.002	<.004	<.002	<.005	.091	<.010	<.002	<.041	<.020	<.005	<.018
SEP													
05...	.053	.064	<.002	<.004	<.002	<.005	.053	<.010	<.002	<.041	<.020	<.005	<.018

DATE	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)
MAY													
31...	<.003	E.154	97	<.005	<.005	<.021	<.002	<.009	<.005	<.003	89	<.004	<.035
JUN													
14...	<.003	E.041	105	<.005	<.005	<.021	<.002	<.009	<.005	<.003	87	<.004	<.035
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
10...	<.003	E.023	110	<.005	<.005	<.021	<.002	<.009	<.005	<.003	101	<.004	<.035
25...	<.003	E.020	112	<.005	<.005	<.021	<.002	<.009	<.005	<.003	96	<.004	<.035
AUG													
08...	<.003	E.043	104	<.005	<.005	<.021	<.002	<.009	<.005	<.003	90	<.004	<.035
22...	<.003	<.006	101	<.005	<.005	<.021	<.002	<.009	<.005	<.003	101	<.004	<.035
SEP													
05...	<.003	<.006	100	<.005	<.005	<.021	<.002	<.009	<.005	<.003	101	<.004	<.035

371528085545301 GORIN MILLS SPRING NEAR MUNFORDVILLE,KENTUCKY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
MAY						
31...	<.027	<.050	<.006	.165	E.003	<.002
JUN						
14...	<.027	<.050	<.006	.065	<.006	<.002
27...	--	--	--	--	--	--
JUL						
10...	<.027	<.050	<.006	.047	<.006	<.002
25...	<.027	<.050	<.006	.044	<.006	<.002
AUG						
08...	<.027	<.050	<.006	.110	<.006	<.002
22...	<.027	<.050	<.006	.086	<.006	<.002
SEP						
05...	<.027	<.050	<.006	.077	<.006	<.002

373320086001601 WADDEL SPRING NEAR HARCOURT, KENTUCKY
(also known as: SAINT IGNATIUS SPRING NEAR HARCOURT, KENTUCKY)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°33°20, long 86°00°16, Hardin County, Hydrologic Unit 05110001, 0.4 miles east of Harcourt, Kentucky

PERIOD OF RECORD.--May to September 2001

REMARKS.--Samples collected every two weeks from May 30, 2001 to September 6, 2001

COOPERATION.--Kentucky Department of Agriculture.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
MAY												
31...	0930	ENVIRONMENTAL	14	5.3	8.3	7.0	455	13.7	206	251	<.040	4.79
JUN												
14...	1005	ENVIRONMENTAL	14	2.6	8.7	7.2	432	13.7	198	241	<.040	4.60
27...	0940	ENVIRONMENTAL	10	2.8	8.3	7.1	469	14.1	204	248	<.040	3.89
JUL												
10...	0945	ENVIRONMENTAL	8.8	1.5	8.7	7.1	448	13.9	197	240	<.040	3.63
25...	0910	ENVIRONMENTAL	7.4	5.3	7.9	7.1	502	14.8	206	250	<.040	3.38
AUG												
08...	0950	ENVIRONMENTAL	7.4	2.9	7.1	7.0	453	14.4	245	256	E.023	3.29
22...	1010	ENVIRONMENTAL	7.5	1.9	8.7	6.8	460	14.2	210	256	<.040	3.17
SEP												
05...	0925	ENVIRONMENTAL	5.6	1.6	7.2	6.9	458	14.5	200	244	<.040	2.92

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)
MAY													
31...	.050	.058	<.002	.007	<.002	<.005	.361	<.010	<.002	<.041	<.020	<.005	<.018
JUN													
14...	.046	.054	<.002	.004	<.002	<.005	.202	<.010	<.002	<.041	<.020	<.005	<.018
27...	.044	.049	<.002	E.003	<.002	<.005	.146	<.010	<.002	<.041	<.020	<.005	<.018
JUL													
10...	.037	.042	<.002	<.004	<.002	<.005	.073	<.010	<.002	<.041	<.020	<.005	<.018
25...	.051	.062	<.002	E.004	<.002	<.005	.056	<.010	<.002	<.041	<.020	<.005	<.018
AUG													
08...	.050	.056	<.002	<.004	<.002	<.005	.075	<.010	<.002	<.041	<.020	<.005	<.018
22...	.040	.047	<.002	<.004	<.002	<.005	.057	<.010	<.002	<.041	<.020	<.005	<.018
SEP													
05...	.033	.042	<.002	<.004	<.002	<.005	.046	<.010	<.002	<.041	<.020	<.005	<.018

DATE	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)
MAY													
31...	<.003	E.227	104	<.005	<.005	<.021	<.002	<.009	<.005	<.003	81	<.004	<.035
JUN													
14...	<.003	E.086	103	<.005	<.005	<.021	<.002	<.009	<.005	<.003	92	<.004	<.035
27...	<.003	<.006	103	<.005	<.005	<.021	<.002	<.009	<.005	<.003	103	<.004	<.035
JUL													
10...	<.003	E.119	129	<.005	<.005	<.021	<.002	<.009	<.005	<.003	111	<.004	<.035
25...	<.003	E.031	122	<.005	<.005	<.021	<.002	<.009	<.005	<.003	100	<.004	<.035
AUG													
08...	<.003	E.100	111	<.005	<.005	<.021	<.002	<.009	<.005	<.003	99	<.004	<.035
22...	<.003	<.006	109	<.005	<.005	<.021	<.002	<.009	<.005	<.003	108	<.004	<.035
SEP													
05...	<.003	<.006	101	<.005	<.005	<.021	<.002	<.009	<.005	<.003	102	<.004	<.035

3733200860016 01 WADDEL SPRING NEAR HARCOURT, KENTUCKY--Continued
(also known as: SAINT IGNATIUS SPRING NEAR HARCOURT, KENTUCKY)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
MAY						
31...	<.027	<.050	<.006	E.013	<.006	<.002
JUN						
14...	<.027	<.050	<.006	E.008	<.006	<.002
27...	<.027	<.050	<.006	E.010	<.006	<.002
JUL						
10...	<.027	<.050	<.006	E.005	<.006	<.002
25...	<.027	<.050	<.006	E.005	<.006	<.002
AUG						
08...	<.027	<.050	<.006	.031	<.006	<.002
22...	<.027	<.050	<.006	E.004	<.006	<.002
SEP						
05...	<.027	<.050	<.006	E.003	<.006	<.002

373608085585101 BOILING SPRING AT STAR MILLS, KENTUCKY

WATER-QUALITY RECORDS

LOCATION.--Lat 37°36°08, long 85°58°51, Hardin County, Hydrologic Unit 05110001, on Long Grove Road (State Highway 1375), south of Western Kentucky Parkway.

PERIOD OF RECORD.--May 30, 2001 to September 6, 2001

REMARKS.--Samples collected every two weeks from May 30, 2001 to September 6, 2001

COOPERATION.--Kentucky Department of Agriculture.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
MAY												
31...	1025	ENVIRONMENTAL	5.3	4.9	7.6	6.9	446	12.9	187	228	<.040	6.01
JUN												
14...	1145	ENVIRONMENTAL	5.4	4.4	7.1	7.1	430	13.6	190	231	<.040	5.29
27...	1205	ENVIRONMENTAL	3.5	2.6	6.7	7.1	442	13.3	203	247	<.040	5.49
JUL												
10...	1130	ENVIRONMENTAL	3.0	4.1	7.6	7.0	429	13.6	183	223	<.040	4.67
25...	1025	ENVIRONMENTAL	2.6	2.3	7.4	7.0	403	13.6	195	238	<.040	4.74
AUG												
08...	1120	ENVIRONMENTAL	2.2	3.1	6.5	6.9	430	14.0	180	219	E.030	4.27
22...	1125	ENVIRONMENTAL	2.1	3.8	7.2	6.8	432	14.3	198	241	<.040	4.00
SEP												
05...	1045	ENVIRONMENTAL	1.5	3.0	7.4	6.8	435	14.1	199	243	<.040	3.61

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)
MAY													
31...	.034	.042	<.002	<.004	<.002	<.005	.737	<.010	<.002	<.041	<.020	<.005	<.018
JUN													
14...	.039	.048	<.002	<.004	<.002	<.005	.441	<.010	<.002	<.041	<.020	<.005	<.018
27...	.035	.041	<.002	<.004	<.002	<.005	.287	<.010	<.002	<.041	<.020	<.005	<.018
JUL													
10...	.040	.051	<.002	<.004	<.002	<.005	.298	<.010	<.002	<.041	<.020	<.005	<.018
25...	.040	.049	<.002	<.004	<.002	<.005	.147	<.010	<.002	<.041	<.020	<.005	<.018
AUG													
08...	.043	.048	<.002	<.004	.004	<.005	.048	<.010	<.002	<.041	<.020	<.005	<.018
22...	.048	.060	<.002	<.004	<.002	<.005	.171	<.010	<.002	<.041	<.020	<.005	<.018
SEP													
05...	.041	.051	<.002	<.004	<.002	<.005	.125	<.010	<.002	<.041	<.020	<.005	<.018

DATE	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)
MAY													
31...	<.003	E.456	92	<.005	<.005	<.021	<.002	<.009	<.005	<.003	85	<.004	<.035
JUN													
14...	<.003	E.516	108	<.005	<.005	<.021	<.002	<.009	<.005	<.003	93	<.004	<.035
27...	<.003	<.006	112	<.005	<.005	<.021	<.002	<.009	<.005	<.003	104	<.004	<.035
JUL													
10...	<.003	E.089	122	<.005	<.005	<.021	<.002	<.009	<.005	<.003	103	<.004	<.035
25...	<.003	E.080	103	<.005	<.005	<.021	<.002	<.009	<.005	<.003	96	<.004	<.035
AUG													
08...	<.003	E.015	107	E.003	<.005	<.021	<.002	<.009	<.005	<.003	97	<.004	<.035
22...	<.003	<.006	109	<.005	<.005	<.021	<.002	<.009	<.005	<.003	114	<.004	<.035
SEP													
05...	<.003	<.006	98	<.005	<.005	<.021	<.002	<.009	<.005	<.003	101	<.004	<.035

373608085585101 BOILING SPRING AT STAR MILLS, KENTUCKY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
MAY						
31...	<.027	<.050	<.006	.044	<.006	<.002
JUN						
14...	<.027	<.050	<.006	.043	<.006	<.002
27...	<.027	<.050	<.006	.035	<.006	<.002
JUL						
10...	<.027	<.050	<.006	.025	<.006	<.002
25...	<.027	<.050	<.006	.026	<.006	<.002
AUG						
08...	<.027	<.050	<.006	.081	<.006	<.002
22...	<.027	<.050	<.006	.018	<.006	<.002
SEP						
05...	<.027	<.050	<.006	E.008	<.006	<.002

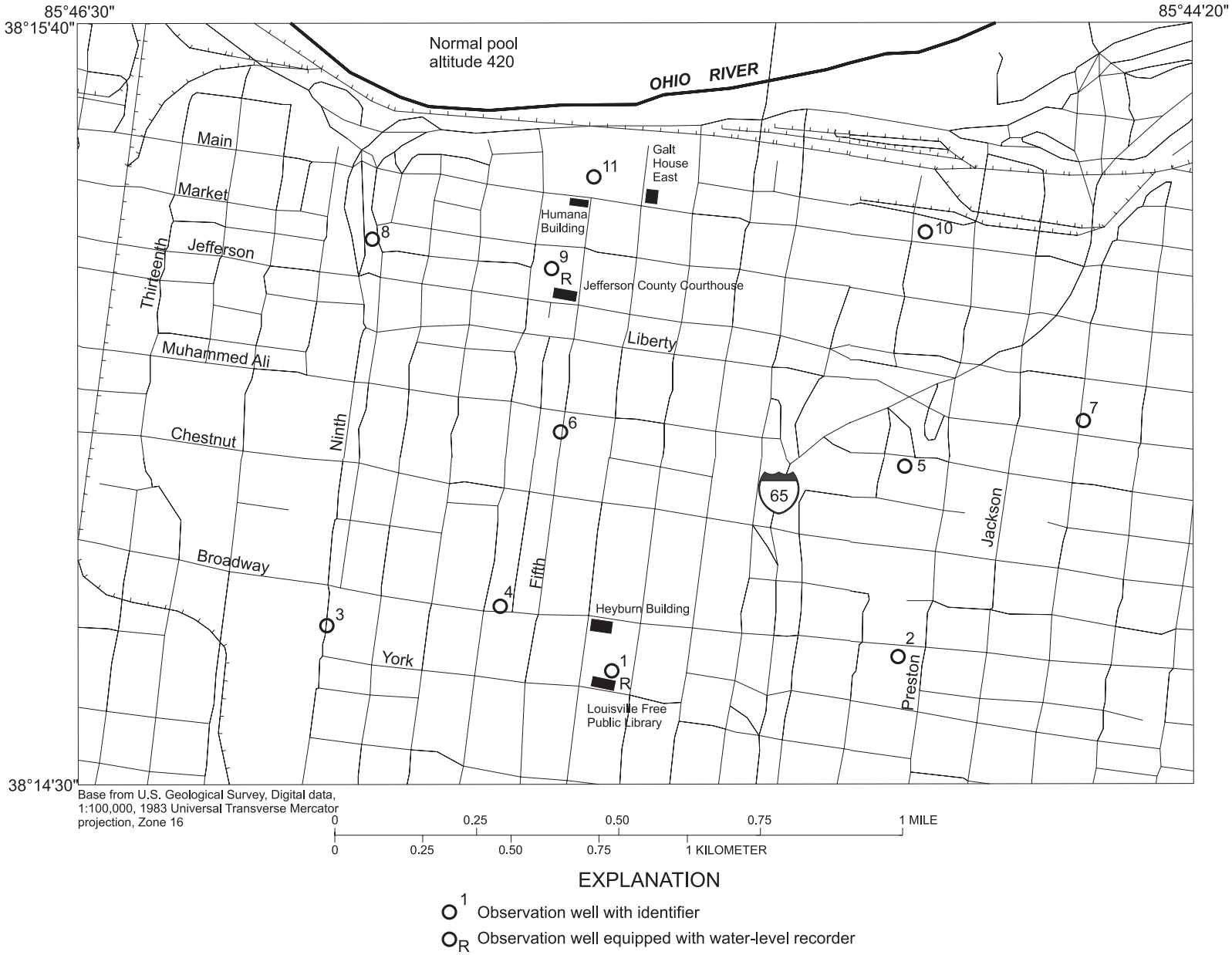


Figure 9. Location of observation wells in downtown Louisville, Kentucky.

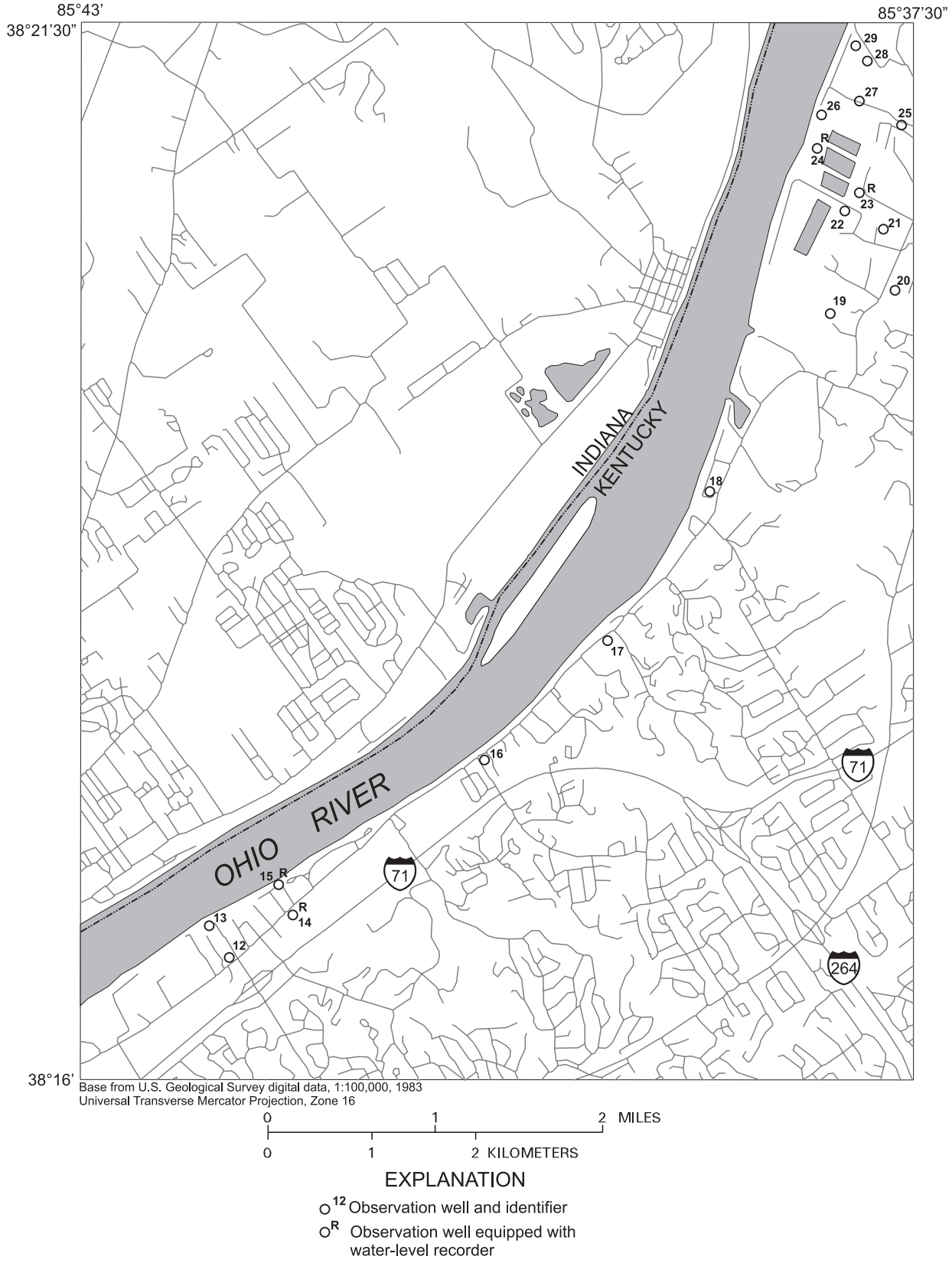


Figure 10. Location of observation wells in northeastern Jefferson County, Kentucky.

GRAVES COUNTY

365210088391301. (Viola well).

LOCATION.--Lat 36°52'10", long 88°39'13", Hydrologic Unit 08010201, County Code 083, Hickory quadrangle, in a cultivated field, 200 ft east of a private road, 1.2 mi northwest of Viola. Owner: J. Whittemore.

AQUIFER.--Sand of Claiborne Group of Eocene age. Aquifer code: 124 CLBR.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in., depth 105 ft, cased to 85 ft, screened 85-105 ft.

INSTRUMENTATION.--Continuous recorder, 60 minute interval.

DATUM.--Elevation of land-surface datum is 405.65 ft above NGVD of 1929. Measuring point: Floor of shelter, 4.03 ft above land-surface datum.

PERIOD OF RECORD.--February 1951 to September 1984 and October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.98 ft below land-surface datum, June 15, 1998: lowest measured, 19.24 ft below land-surface datum, Jan. 10, 1975.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

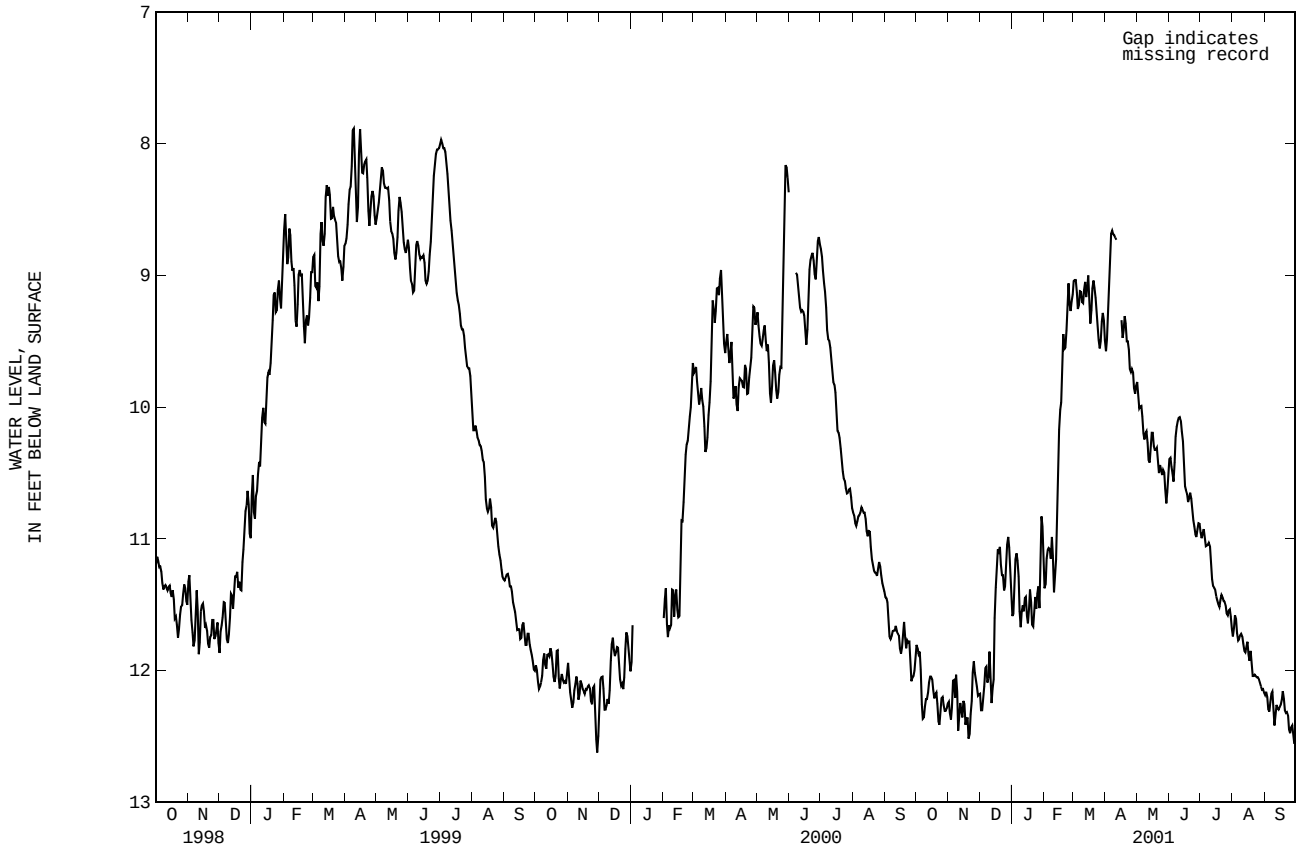
DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.82	12.23	12.11	11.46	11.32	9.08	9.58	9.80	10.48	10.90	11.74	12.20
2	11.79	12.24	12.24	11.71	11.43	9.01	9.57	9.82	10.31	11.00	11.74	12.17
3	11.87	12.40	12.36	11.43	11.26	9.06	9.40	10.00	10.46	10.99	11.61	12.15
4	11.88	12.34	12.24	11.26	11.04	9.01	9.20	10.02	10.44	10.93	11.55	12.25
5	11.83	12.22	12.16	11.05	11.13	9.25	9.03	9.97	10.57	10.92	11.67	12.33
6	12.15	11.93	12.08	11.17	11.01	9.26	8.75	10.01	10.56	11.06	11.76	12.29
7	12.36	12.21	11.88	11.16	11.15	9.19	8.62	10.13	10.28	11.05	11.78	12.19
8	12.37	12.20	12.06	11.41	11.15	9.05	8.70	10.27	10.17	11.05	11.74	12.16
9	12.34	11.86	12.12	11.69	10.82	9.20	8.67	10.22	10.13	11.04	11.72	12.16
10	12.21	12.46	12.00	11.65	11.44	9.20	8.72	10.18	10.09	11.02	11.72	12.43
11	12.22	12.45	11.71	11.46	11.37	9.22	8.71	10.19	10.07	11.09	11.76	12.40
12	12.21	12.25	12.40	11.55	11.20	9.00	8.75	10.35	10.08	11.27	11.83	12.26
13	12.12	12.24	12.09	11.55	11.11	9.10	---	10.45	10.13	11.34	11.87	12.26
14	12.06	12.37	12.19	11.35	10.77	9.23	---	10.39	10.24	11.37	11.85	12.31
15	12.03	12.34	11.94	11.53	10.35	8.96	---	10.25	10.28	11.37	11.78	12.28
16	12.06	12.12	11.26	11.64	9.99	9.04	9.24	10.14	10.57	11.40	11.78	12.27
17	12.07	12.38	11.48	11.64	10.05	9.37	9.44	10.25	10.63	11.47	11.98	12.25
18	12.22	12.44	11.03	11.42	9.88	9.36	9.51	10.34	10.63	11.46	11.87	12.19
19	12.20	12.28	11.13	11.35	9.47	9.17	9.33	10.31	10.69	11.53	11.83	12.12
20	12.16	12.44	11.06	11.61	9.42	9.03	9.29	10.34	10.75	11.50	12.03	12.31
21	12.17	12.59	11.06	11.69	9.70	9.05	9.44	10.28	10.63	11.43	12.05	12.29
22	12.33	12.37	11.33	11.64	9.40	9.14	9.56	10.54	10.67	11.42	12.03	12.35
23	12.44	12.29	11.22	11.48	9.44	9.20	9.44	10.46	10.72	11.46	12.03	12.28
24	12.38	12.17	11.33	11.40	9.04	9.32	9.69	10.42	10.83	11.48	12.05	12.40
25	12.24	11.86	11.45	11.66	9.08	9.45	9.73	10.53	10.89	11.47	12.05	12.49
26	12.18	12.00	11.27	11.17	9.35	9.53	9.74	10.50	10.92	11.54	12.05	12.46
27	12.22	12.03	11.08	11.55	9.19	9.58	9.68	10.45	11.01	11.59	12.08	12.40
28	12.30	12.11	11.01	11.50	9.21	9.42	9.79	10.54	10.96	11.57	12.10	12.43
29	12.31	12.13	10.96	10.95	---	9.28	9.92	10.70	10.89	11.52	12.14	12.54
30	12.30	12.25	11.17	10.71	---	9.29	9.88	10.76	10.87	11.55	12.15	12.57
31	12.27	---	11.37	11.10	---	9.40	---	10.53	---	11.63	12.13	---
MAX	12.44	12.59	12.40	11.71	11.44	9.58	9.92	10.76	11.01	11.63	12.15	12.57
MIN	11.79	11.86	10.96	10.71	9.04	8.96	8.62	9.80	10.07	10.90	11.55	12.12

WTR YR 2001 HIGH 8.62 LOW 12.59

GRAVES COUNTY

365210088391301. Viola well.--Continued.



JEFFERSON COUNTY

381441085452701. (Lib A-2), map number 1.

LOCATION.--Lat 38°14'41", long 85°45'27", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the Louisville Free Public Library, 301 West York Street, on east side of building at base of the TV-radio tower, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in., depth 105 ft, cased and screened.

INSTRUMENTATION.--Continuous recorder, 30 minute interval.

DATUM.--Elevation of land-surface datum is 454.23 ft above NGVD of 1929. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Water-quality sample collected May 8, 1956.

PERIOD OF RECORD.--February 1937 to current year. February 1937 to September 1976 published in hydrograph form and on file at district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 27.51 ft below land-surface datum, June 1, 1997; lowest, 77.82 ft below land-surface datum, Sept. 18, 1955.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

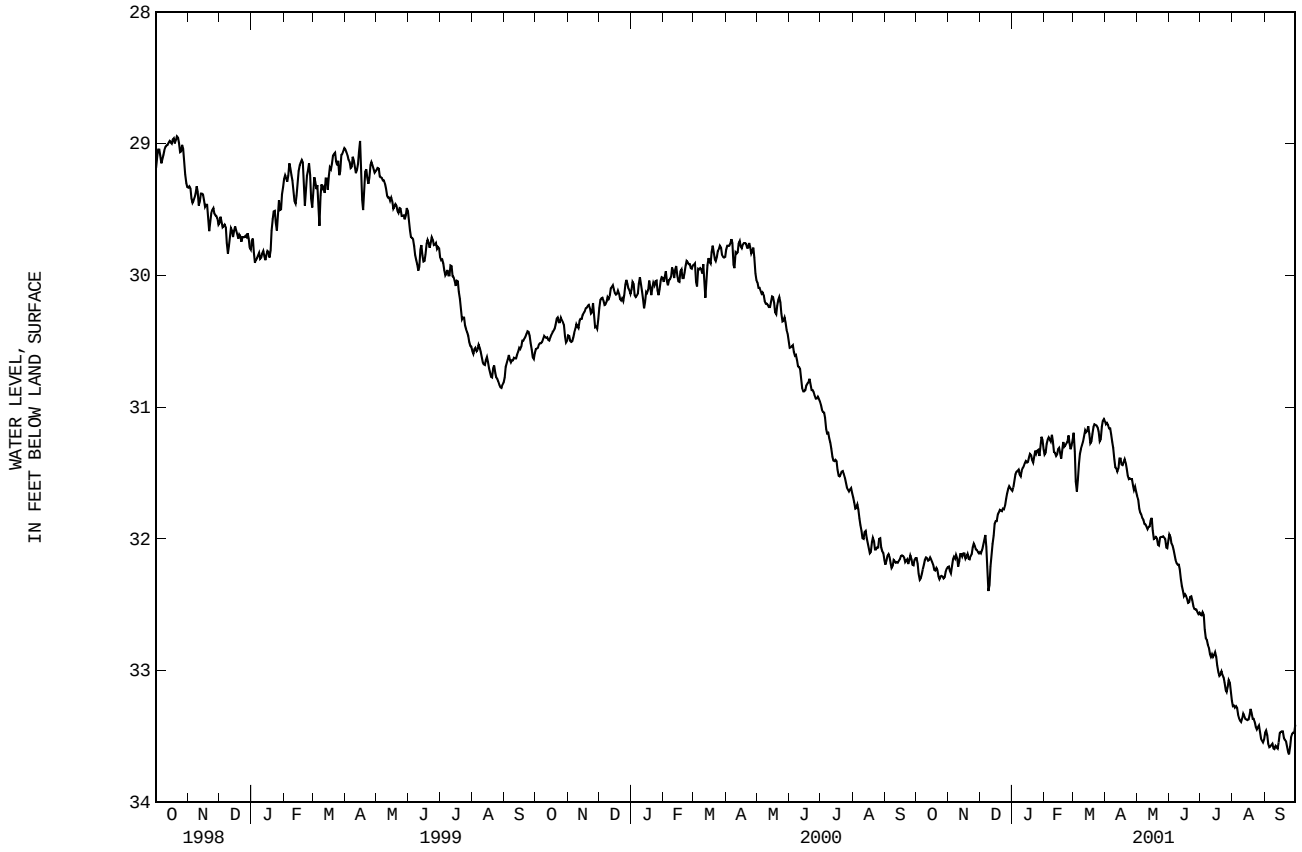
DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.14	32.21	32.09	31.62	31.35	31.21	31.12	31.68	31.99	32.55	33.27	33.49
2	32.15	32.21	32.11	31.65	31.37	31.18	31.14	31.67	31.94	32.60	33.27	33.45
3	32.23	32.27	32.11	31.57	31.32	31.49	31.10	31.73	32.03	32.56	33.26	33.46
4	32.30	32.25	32.06	31.54	31.24	31.64	31.17	31.81	32.04	32.55	33.30	33.52
5	32.32	32.18	32.03	31.48	31.25	31.64	31.15	31.79	32.06	32.60	33.24	33.59
6	32.28	32.13	31.99	31.50	31.21	31.47	31.17	31.84	32.10	32.77	33.32	33.57
7	32.25	32.14	31.95	31.47	31.28	31.39	31.24	31.84	32.15	32.74	33.35	33.58
8	32.21	32.16	32.17	31.48	31.24	31.32	31.29	31.87	32.17	32.79	33.37	33.55
9	32.18	32.08	32.35	31.54	31.18	31.31	31.33	31.90	32.20	32.82	33.39	33.56
10	32.14	32.21	32.44	31.51	31.34	31.27	31.46	31.88	32.19	32.83	33.39	33.62
11	32.14	32.21	32.26	31.46	31.34	31.25	31.45	31.93	32.20	32.92	33.33	33.57
12	32.15	32.13	32.16	31.46	31.35	31.19	31.48	31.92	32.26	32.87	33.32	33.57
13	32.18	32.10	32.07	31.44	31.39	31.16	31.50	31.90	32.35	32.88	33.37	33.59
14	32.14	32.13	32.01	31.41	31.33	31.22	31.43	31.91	32.36	32.91	33.36	33.59
15	32.14	32.14	31.94	31.41	31.31	31.14	31.35	31.81	32.43	32.85	33.38	33.50
16	32.17	32.08	31.83	31.43	31.31	31.15	31.43	31.87	32.44	32.87	33.37	33.45
17	32.18	32.14	31.90	31.40	31.40	31.26	31.44	32.00	32.40	32.92	33.37	33.48
18	32.21	32.16	31.83	31.36	31.38	31.29	31.44	32.00	32.46	33.00	33.31	33.44
19	32.26	32.11	31.80	31.35	31.27	31.23	31.40	31.99	32.45	33.02	33.27	33.48
20	32.22	32.12	31.80	31.38	31.26	31.18	31.39	31.98	32.52	33.06	33.37	33.54
21	32.22	32.18	31.76	31.42	31.34	31.12	31.45	32.01	32.44	33.00	33.36	33.51
22	32.25	32.13	31.81	31.42	31.24	31.14	31.49	32.08	32.44	33.01	33.37	33.56
23	32.32	32.13	31.77	31.34	31.31	31.13	31.55	32.02	32.43	33.05	33.41	33.58
24	32.29	32.10	31.77	31.32	31.22	31.15	31.54	31.96	32.50	33.05	33.44	33.65
25	32.28	32.03	31.78	31.39	31.21	31.16	31.54	32.01	32.52	33.13	33.45	33.62
26	32.28	32.04	31.72	31.27	31.34	31.21	31.55	31.96	32.54	33.16	33.41	33.53
27	32.29	32.06	31.67	31.38	31.30	31.31	31.54	32.00	32.53	33.16	33.42	33.48
28	32.31	32.10	31.64	31.36	31.28	31.18	31.65	31.98	32.54	33.08	33.50	33.48
29	32.27	32.07	31.60	31.25	---	31.12	31.61	32.02	32.57	33.06	33.53	33.46
30	32.23	32.13	31.60	31.20	---	31.09	31.60	32.11	32.57	33.12	33.53	33.48
31	32.22	---	31.63	31.29	---	31.09	---	32.03	---	33.19	33.56	---
MAX	32.32	32.27	32.44	31.65	31.40	31.64	31.65	32.11	32.57	33.19	33.56	33.65
MIN	32.14	32.03	31.60	31.20	31.18	31.09	31.10	31.67	31.94	32.55	33.24	33.44

WTR 2001 HIGH 33.65 LOW 31.09

JEFFERSON COUNTY

381441085452701. (Lib A-2), map number 1.--Continued



JEFFERSON COUNTY

381442085444801. (Metro United Way),map number 2.

LOCATION.--Lat 38°14'42", long 85°44'48", Hydrologic Unit 05140101, County Code 111, Louisville East quadrangle, near the southwest corner of east Broadway and Preston street on west side of Metro United Way Building in window vault next to parking lot in rear.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 1120TSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 10 in., depth, 94 ft, screen unknown.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 461.78 ft above NGVD of 1929. Measuring point: Top of casing 5.99 ft below land-surface datum.

PERIOD OF RECORD.--April 1991 to May 1992 and February 1998 to currnet year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.40 ft below land-surface datum, May 6, 1998: lowest measured, 40.06 ft below land-surface datum, Sept. 27, 2001.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Dec. 07, 2000	39.09	Jul. 05 2001	39.23
Mar. 28, 2001	38.31	Sept. 27, 2001	40.06

381445085460201. (QW well 9th and Broadway),map number 3.

LOCATION.--Lat 38°14'45", long 85°46'02" Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, in median of South 9th street 300 ft south of West Broadway. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer sode: 1120TSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in., depth 77 ft, screened 67-77 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 454.14 ft above NGVD of 1929. Measuring point: Top of casing, 0.34 ft below land-surface datum.

REMARKS.--Deeper of two wells drilled for water quality study 10 feet south of shallow well.

PERIOD OF RECORD.--August 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.95 ft below land-surface datum Feb. 20, 1998: lowest measured, 31.77 ft below land-surface datum Sept. 27, 2001.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Dec. 07, 2000	30.50	Jul. 05, 2001	30.97
Mar. 28, 2001	30.04	Sept. 27, 2001	31.77

381447085454001. (Courier Journal), map number 4.

LOCATION.--Lat 38°14'47", long 85°45'40", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at Courier Journal, Sixth and Broadway Streets in subbasement below building entrance walkway from Armory Street, in Louisville. Owner Gannett.

AQUIFER.--Louisville Limestone and Laurel Dolomite of Middle Silurian age. Aquifer code: 354LVLL.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 12 in., depth 190 ft, eased to 121 ft, open-hole 121-190 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 455.83 ft above NGVD of 1929. Measuring point: Top of metal well cover, 15.87 ft below land-surface datum.

PERIOD OF RECORD.--October 1953 to current year. October 1953 to September 1998 published in hydrograph from an on file in district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 28.49 ft below land-surface datum, June 1, 1997; lowest, 86.85 ft below land-surface datum, Sept. 20, 1955.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Dec. 07, 2000	32.74	Ju1. 05, 2001	33.51
Mar. 28, 2001	31.76	Sept. 27, 2001	34.41

JEFFERSON COUNTY

381501085445601. (QW Well U OF L Medical School), map number 5.

LOCATION.--Lat 38°15'01", long 85°44'56", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, near southeast corner of Floyd Street and Muhammad Ali Blvd, 250 feet east of Floyd Street and 10 ft South of Muhammad Ali Blvd. Owner: University of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 1120TSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in., depth 83.2 ft, screened 73.2 ft to 83.2 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 459.97 ft above NGVD of 1929. Measuring point: Top of casing, 0.25 ft below land-surface datum.

REMARKS.--Deeper of two wells drlled for water-quality study 10 ft east of shallow well.

PERIOD OF RECORD.--September 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.44 ft below land-surface datum, May 4, 1998: lowest measured, 40.28 ft below land-surface datum, Sept. 27, 2001.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Dec. 07, 2000	39.14	Jul. 05, 2001	not measured
Mar. 28, 2001	38.04	Sept. 27, 2001	40.28

381503085453301. (Ky. Towers), map 6.

LOCATION.--Lat 38°15'03", long 85°45'33" Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, in subbasement of Kentucky Towers Apartments, on east side of South Fifth Street, at Fifth and Muhammand Ali Blvd., in Louisville. Owner: Kentucky Towers (formerly Kentucky Hotel).

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer sode: 1120TSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diamete 10 in., depth 104 ft, screened 84-104 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 460.00 ft above NGVD of 1929. Measuring point: Floor of recorder shelter 22.81 ft below land-surface datum.

PERIOD OF RECORD.--September 1948 to current year. November 1973 to September 1976 published in hydrograph form and on file at district office.

EXTREMES FOR PERIOD OF RECORD.--Hightest water level measured, 33.53 ft below land-surface datum, Apr. 24, 1984: lowest measured, 87.74 ft below land-surface datum, Sept. 23, 1955.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Dec. 07, 2000	38.24	Jul. 05, 2001	42.37
Mar. 28, 2001	36.80	Sept. 27, 2001	43.09

381504085443202. Local number (CP7A), map number 7.

LOCATION.--Lat 38°15'04", long 85°44'32", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, at the southwest corner of east Louisville Park, 13.7 ft west of a tennis court fence, 16.5 ft east of curb on south Hancock Street, 58.2 ft north of curb on east Liberty Street, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 1120TSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 84.6 ft, screened 71.1-74.1 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 467.19 ft above NGVD of 1929. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Replaces destroyed well 381504085443201 (CP7), which was 10 ft north.

PERIOD OF RECORD.--July 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.41 ft below land-surface datum, May 6, 1997: lowest measured, 47.90 ft below land-surface datum, Sept. 27, 2001.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Dec. 07, 2000	47.18	Jul. 05, 2001	47.04
Mar. 28, 2001	46.23	Sept. 27, 2001	47.90

JEFFERSON COUNTY

381517085455501. Local number 86-6 (Roy Wilkins Blvd.), map number 8.

LOCATION.--Lat 38°15'17", long 85°45'55", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle,in median of Roy Wilkins Blvd. near Market Street, in Louisville. Owner: City Of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer sode: 1120TSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2.5 in, depth 86.4 ft, screened 82.4-86.4 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 457.59 ft above NGVD of 1929. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Water levels affected by Ohio River stage and pumping from nearby wells.

PERIOD OF RECORD.--October 1986 to May 1991 and February 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.08 ft below land-surface datum Feb. 20, 1998: lowest measured, 38.41 ft below land-surface datum Sept. 26, 27, 29, 30, and Oct. 5, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Dec. 07, 2000	36.38	Jun. 05, 2001	37.21
Jan. 12, 2001	35.55	Sept. 27, 2001	38.15
Mar. 28, 2001	35.25		

JEFFERSON COUNTY

381518085453402. Local number 86-11 (Courthouse Annex), map number 9.

LOCATION.--Lat 38°15'18", long 85°45'34", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at northwest corner behind Courthouse Annex building between 5th and 6th Streets, east of walkway to parking garage. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2.5 in., depth 102 ft, screened 42-44 ft, 61-63 ft, 99-101 ft.

INSTRUMENTATION.--Continuous recorder, 30 minute interval.

DATUM.--Elevation of land-surface datum is 461.63 ft above NGVD of 1929. Measuring point: Top of casing, 3.0 ft above land-surface datum.

REMARKS.--Water levels affected by Ohio River stage and pumping from nearby wells.

PERIOD OF RECORD.--November 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 37.49 ft below land-surface datum, March 8, 1998; lowest, 46.82 ft below land-surface datum, July 27, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44.64	44.02	43.28	41.67	41.37	41.51	41.25	42.59	43.17	44.66	45.98	---
2	44.60	43.99	43.23	41.66	41.43	41.51	41.27	42.67	43.17	44.70	46.01	---
3	44.60	44.00	43.16	41.63	41.54	41.49	41.24	42.76	43.18	44.74	46.02	---
4	44.63	43.99	43.09	41.61	41.63	41.45	41.32	42.85	43.25	44.74	---	---
5	44.68	43.94	42.73	41.55	41.72	41.45	41.32	42.93	43.29	44.83	---	---
6	44.73	43.89	42.72	41.51	41.76	41.41	41.36	43.01	43.36	45.09	---	---
7	44.70	43.85	42.48	41.47	41.79	41.30	41.55	43.07	43.56	45.18	---	---
8	44.63	43.81	42.74	41.45	41.83	41.25	41.72	43.14	43.65	45.25	---	---
9	44.55	43.75	42.70	41.45	41.90	41.23	41.86	43.17	43.70	45.33	---	---
10	44.49	43.82	42.66	41.42	41.92	41.21	41.98	43.19	43.74	45.41	---	---
11	44.43	43.80	42.60	41.36	41.94	41.20	42.08	43.17	43.80	45.50	---	---
12	44.39	43.75	42.62	41.33	41.98	41.18	42.20	43.19	43.88	45.56	---	---
13	44.34	43.70	42.55	41.31	42.00	41.15	42.28	43.15	43.98	45.54	---	45.97
14	44.30	43.67	42.51	41.26	42.00	41.16	42.31	43.11	44.11	45.61	---	45.99
15	44.28	43.42	42.46	41.22	42.03	41.10	42.37	43.08	44.16	45.64	---	45.91
16	44.26	43.52	42.38	41.19	42.04	41.08	42.44	43.13	44.25	45.67	---	45.90
17	44.23	43.54	42.36	41.18	42.10	41.16	42.46	43.23	44.32	45.71	---	45.87
18	44.22	43.54	42.30	41.18	42.15	41.13	42.42	43.31	44.37	45.76	---	45.84
19	44.21	43.52	42.24	41.19	42.14	41.08	42.35	43.39	44.44	45.81	---	45.81
20	44.19	43.50	42.19	41.13	42.11	41.13	42.32	43.45	44.50	45.86	---	45.87
21	44.18	43.35	42.12	41.34	42.11	41.18	42.41	43.48	44.54	45.89	---	45.84
22	44.16	43.06	42.08	41.36	42.07	41.23	42.37	43.50	44.55	45.93	---	45.89
23	44.14	43.38	42.02	41.34	42.03	41.28	42.50	43.47	44.54	45.96	---	45.83
24	44.14	43.38	41.98	41.33	41.88	41.31	42.56	43.42	44.54	45.98	---	45.86
25	44.12	43.40	41.94	41.38	41.78	41.35	42.56	43.37	44.53	46.00	---	45.91
26	44.14	43.42	41.89	41.32	41.72	41.36	42.53	43.38	44.55	45.98	---	45.90
27	44.21	43.42	41.84	41.37	41.66	41.38	42.51	43.27	44.58	45.68	---	45.84
28	44.27	43.38	41.80	41.38	41.58	41.37	42.58	43.20	44.59	45.63	---	45.83
29	44.21	43.38	41.74	41.30	---	41.26	42.56	43.16	44.61	45.61	---	45.76
30	44.14	43.34	41.72	41.24	---	41.24	42.53	43.14	44.63	45.66	---	45.65
31	44.08	---	41.70	41.32	---	41.25	---	43.16	---	45.93	---	---
MAX	44.73	44.02	43.28	41.67	42.15	41.51	42.58	43.50	44.63	46.00	46.02	45.99
MIN	44.08	43.06	41.70	41.13	41.37	41.08	41.24	42.59	43.17	44.66	45.98	45.65

WTR YR 2001 HIGH 41.08 LOW 46.02

JEFFERSON COUNTY

381518085453402. Local number 86-11 (Courthouse Annex), map number 9.--Continued

JEFFERSON COUNTY

381522085445201 (Louisville Scrap Metal), map number 10.

LOCATION.--Lat 38°15'22", long 85°50'26", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, at northeast corner of Floyd and Main Streets behind Louisville Scrap Metal Office. Owner: Louisville Scrap Metal.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 1120TSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 10 in. with 2" PVC casing and screen inserted for measurement access, depth 90.0 ft, screened 85.0-90.0 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 460.04 ft above NGVD of 1929. Measuring point: Top of 2" coupling 1.11 ft above land-surface datum.

PERIOD OF RECORD.--May 1991 to June 1993 and May 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.22 ft below land-surface datum, Mar. 7, 1997: lowest measured, 41.90 ft below land-surface, datum, Sept. 27, 2001.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Dec. 07, 2000	40.56	Jul. 05, 2001	41.38
Mar. 28, 2001	39.48	Sept. 27, 2001	41.90

381527085453001. Local number 86-7 (Belvedere Well), map number 11.

LOCATION.--Lat 38°15'27", long 85°45'30", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at Place Montpelier and Main Street, 3 ft east of east sidewalk. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2.5 in., depth 89.9 ft, screened 85.1-87.1 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel..

DATUM.--Elevation of land-surface datum is 452.43 ft above NGVD of 1929. Measuring point: Top of casing, 3.0 ft above land-surface datum.

REMARKS.-- Water levels affected by Ohio River stage and pumping from nearby wells .

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.92 ft below land-surface datum, Mar. 9, 1997; lowest, 39.64 ft below land-surface datum, Sept. 2-3, 1993, Aug. 31, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Dec. 07, 2000	33.30	Jul. 05, 2001	36.33
Jan.. 12, 2001	31.86	Sept. 27, 2001	36.38
Mar. 28, 2001	32.44		

381638085415801. Local number (WC-4), map number 12.

LOCATION.--Lat 38°16'38", long 85°41'58", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, at the northwest corner of River Road and Zorn Avenue, in Louisville. Owner: Louisville Water Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4 in., depth 104 ft, screened 98-100 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 435.79 ft above NGVD of 1929. Measuring point: Floor of recorder shelter, 4.41 ft above land-surface datum.

REMARKS.-- Water levels affected by Ohio River, which causes level to rise above land-surface and nearby pumpage. Water-quality sample collected July 10, 1979.

PERIOD OF RECORD.--October 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 3.71 ft above land-surface datum, Mar. 13, 1967; lowest, 19.61 ft below land-surface datum, Feb. 13, 1948.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Dec. 07, 2000	15.31	Jun. 25, 2001	14.75
Mar. 26, 2001	14.57	Sept. 27, 2001	15.37

JEFFERSON COUNTY

381648085421201. Local number (WC-5), map number 13.

LOCATION.--Lat 38°16'48", long 85°42'12", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, 200 ft west of Louisville Water Company pump house, 200 ft south of the Ohio River, 0.2 mi northwest of junction of River Road and Zorn Avenue, in Louisville. Owner: Louisville Water Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4 in., depth 98 ft, screened 96-98 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 435.11 ft above NGVD of 1929. Measuring point: Top of pipe flange, 2.21 ft above land-surface datum.

REMARKS.-- Water levels affected by Ohio River, which causes level to rise above land-surface. Water-quality collected Apr. 30, 1948.

PERIOD OF RECORD.--May 1946 to current year. May 1946 to April 1977 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.04 ft above land-surface datum, Jan. 17, 1950: lowest measured, 18.31 ft below land-surface datum, Nov. 6, 1946.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Dec. 07, 2000	14.63	Jun. 25, 2001	13.66
Mar. 26, 2001	13.97	Sept. 27, 2001	14.39

JEFFERSON COUNTY

381653085413302. Local number (WC-9A), map number 14.

LOCATION.--Lat 38°16'53", long 85°41'33", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, 45 ft east of River Road at Wagner Lane, opposite the southwest corner of Cox Park, in Louisville. Owner: Louisville Water Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in., depth 90 ft, screened 76-78 ft, 88-90 ft.

INSTRUMENTATION.--Continuous recorder, 30 minute interval.

DATUM.--Elevation of land-surface datum is 437.65 ft above NGVD of 1929. Measuring point: Top of casing, 3.00 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.40 ft below land-surface datum, May 20, 1996; lowest measured, 19.04 ft below land-surface datum, July 21, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

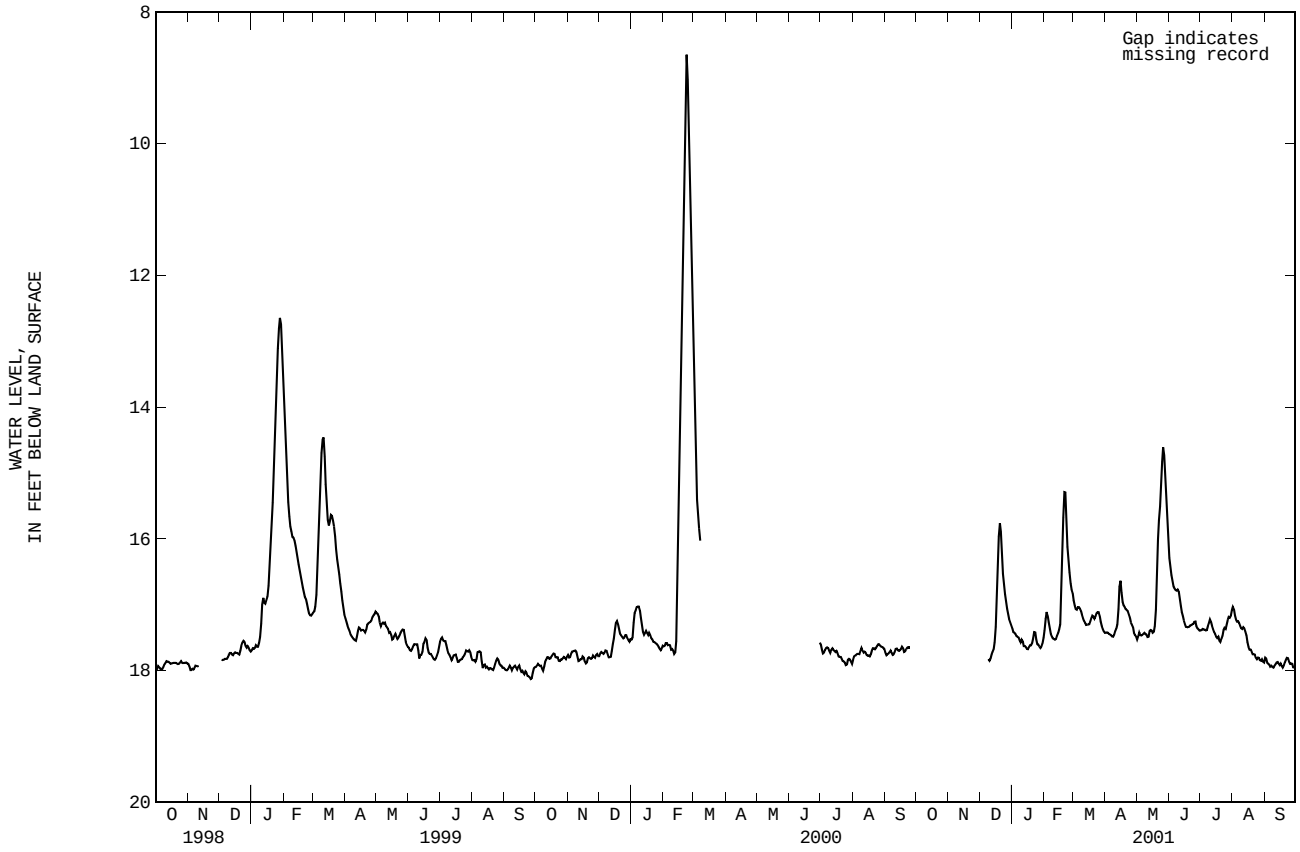
DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	17.33	17.44	16.87	17.42	17.49	16.21	17.40	17.04	17.83
2	---	---	---	17.39	17.33	17.00	17.43	17.57	16.37	17.38	17.02	17.77
3	---	---	---	17.44	17.10	17.03	17.41	17.40	16.49	17.39	17.12	17.86
4	---	---	---	17.41	17.12	17.10	17.44	17.44	16.61	17.34	17.20	17.90
5	---	---	---	17.47	17.22	17.05	17.45	17.48	16.68	17.41	17.25	17.89
6	---	---	---	17.48	17.31	17.02	17.45	17.45	16.76	17.34	17.26	17.92
7	---	---	---	17.49	17.41	17.05	17.47	17.46	16.75	17.44	17.24	17.96
8	---	---	---	17.50	17.47	17.06	17.49	17.42	16.80	17.33	17.31	17.89
9	---	---	17.81	17.57	17.49	17.13	17.48	17.43	16.77	17.32	17.33	18.00
10	---	---	17.84	17.57	17.53	17.17	17.42	17.46	16.77	17.24	17.38	17.91
11	---	---	17.86	17.49	17.51	17.24	17.38	17.44	16.83	17.20	17.35	17.94
12	---	---	17.78	17.62	17.55	17.25	17.34	17.54	16.96	17.31	17.33	17.86
13	---	---	17.73	17.63	17.49	17.30	17.25	17.43	17.08	17.33	17.39	17.89
14	---	---	17.70	17.62	17.45	17.31	16.88	17.36	17.14	17.40	17.42	17.85
15	---	---	17.65	17.66	17.41	17.29	16.57	17.40	17.21	17.43	17.51	17.93
16	---	---	17.49	17.68	17.34	17.31	16.70	17.38	17.27	17.45	17.62	17.90
17	---	---	17.18	17.67	17.25	17.28	16.92	17.47	17.32	17.52	17.66	17.88
18	---	---	16.53	17.61	16.63	17.23	16.99	17.35	17.35	17.49	17.70	17.98
19	---	---	16.11	17.62	15.94	17.17	17.03	17.30	17.33	17.48	17.66	17.93
20	---	---	15.81	17.61	15.41	17.16	17.03	16.85	17.35	17.61	17.75	17.91
21	---	---	15.71	17.56	15.17	17.20	17.10	16.21	17.32	17.52	17.75	17.84
22	---	---	16.07	17.45	15.42	17.22	17.06	15.80	17.31	17.51	17.75	17.83
23	---	---	16.45	17.38	16.00	17.13	17.13	15.63	17.31	17.44	17.76	17.78
24	---	---	16.61	17.46	16.24	17.13	17.16	15.38	17.28	17.32	17.84	17.84
25	---	---	16.78	17.59	16.43	17.09	17.22	14.99	17.30	17.38	17.81	17.88
26	---	---	16.90	17.61	16.59	17.13	17.32	14.66	17.22	17.35	17.79	17.91
27	---	---	17.01	17.60	16.76	17.21	17.28	14.56	17.29	17.26	17.82	17.87
28	---	---	17.11	17.67	16.78	17.30	17.40	14.91	17.36	17.20	17.86	17.92
29	---	---	17.19	17.64	---	17.35	17.45	15.46	17.36	17.17	17.84	17.98
30	---	---	17.25	17.62	---	17.38	17.47	15.74	17.38	17.22	17.81	17.93
31	---	---	17.29	17.56	---	17.43	---	15.97	---	17.12	17.92	---
MAX	---	---	17.86	17.68	17.55	17.43	17.49	17.57	17.38	17.61	17.92	18.00
MIN	---	---	15.71	17.33	15.17	16.87	16.57	14.56	16.21	17.12	17.02	17.77

WTR YEAR 2001 HIGH 14.56 LOW 18.00

JEFFERSON COUNTY

381653085413302. Local number (WC-9A), map number 14.--Continued



JEFFERSON COUNTY

381701085414002. Local number (WC-8A), map number 15.
LOCATION.--Lat 38°17'01", long 85°41'40", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, on the south bank of the Ohio River at the northwest corner of Cox Park, in Louisville. Owner: Louisville Water Company.
AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in., depth 86.8 ft, screened 86.8-90.8 ft.
INSTRUMENTATION.--Continuous recorder, 30 minute interval.
DATUM.--Elevation of land-surface datum is 432.62 ft above NGVD of 1929. Measuring point: Top of casing, 2.65 ft above land-surface datum.
REMARKS.--Replaces well 381702085414001 (WC-8) which was 100 ft north. Water levels affected by Ohio River.
PERIOD OF RECORD.--August 1979 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.74 ft below land-surface datum, Feb. 23, 2000; lowest measured, 14.35 ft below land-surface datum, Oct. 18, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

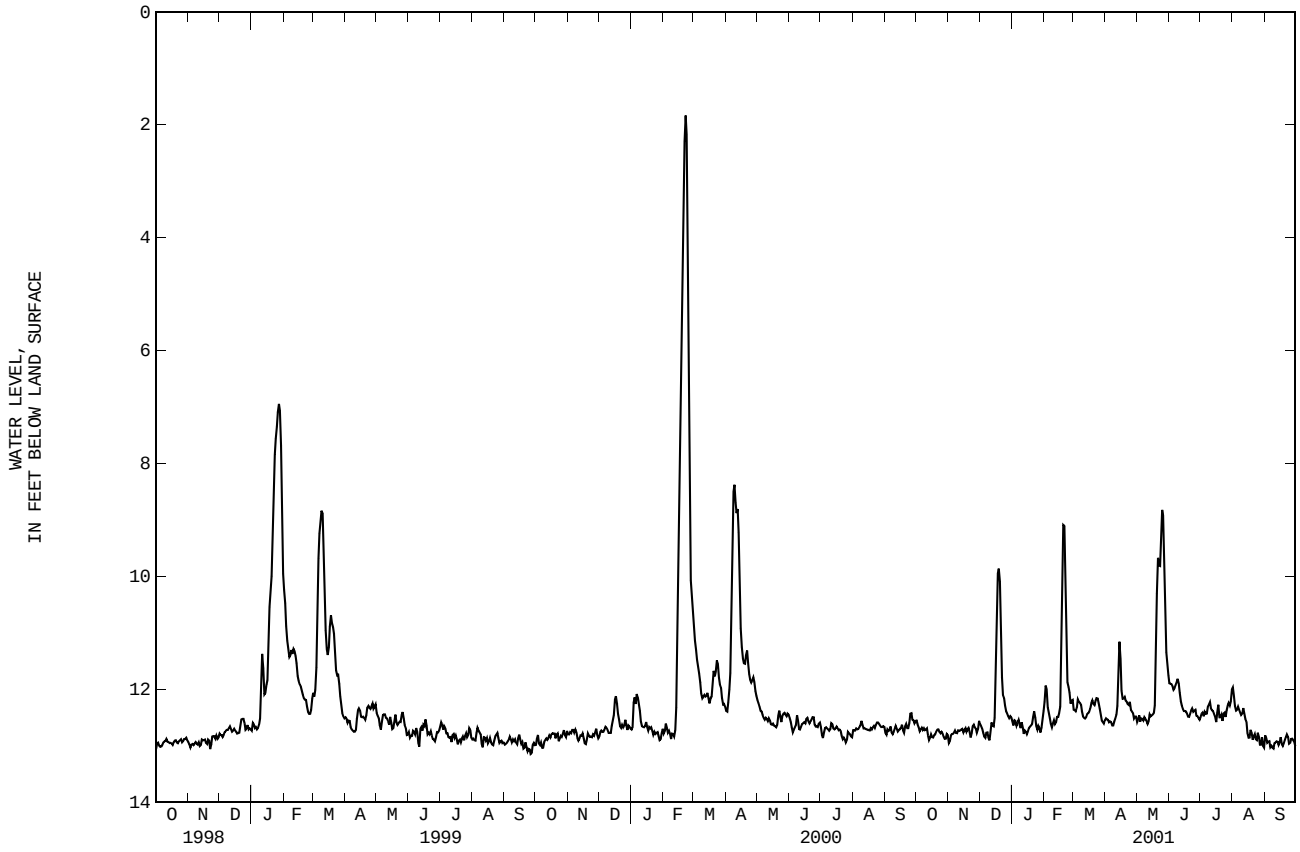
DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.48	12.89	12.59	12.53	12.30	12.30	12.45	12.49	11.87	12.52	11.94	12.84
2	12.62	13.01	12.63	12.60	12.14	12.41	12.57	12.67	11.91	12.47	11.99	12.78
3	12.62	12.82	12.65	12.67	11.72	12.32	12.49	12.39	11.89	12.39	12.26	12.92
4	12.71	12.81	12.73	12.42	12.27	12.45	12.58	12.53	11.92	12.43	12.32	12.97
5	12.77	12.77	12.81	12.70	12.36	12.19	12.58	12.61	11.96	12.52	12.43	12.88
6	12.64	12.80	12.85	12.59	12.45	12.15	12.55	12.42	12.05	12.27	12.29	12.95
7	12.71	12.73	12.86	12.59	12.56	12.28	12.60	12.62	11.90	12.59	12.32	13.10
8	12.72	12.72	12.67	12.49	12.65	12.19	12.67	12.48	11.95	12.26	12.39	12.89
9	12.65	12.82	12.85	12.75	12.69	12.35	12.60	12.50	11.79	12.34	12.43	13.17
10	12.79	12.73	12.85	12.62	12.52	12.43	12.53	12.55	11.83	12.20	12.47	12.92
11	12.63	12.72	12.95	12.54	12.57	12.53	12.51	12.55	11.97	12.25	12.38	12.98
12	12.75	12.75	12.54	12.81	12.65	12.47	12.39	12.67	12.15	12.42	12.28	12.90
13	12.89	12.70	12.63	12.76	12.50	12.56	12.19	12.47	12.27	12.32	12.59	12.94
14	12.90	12.71	12.64	12.69	12.47	12.43	11.29	12.41	12.30	12.44	12.45	12.91
15	12.80	12.68	12.66	12.80	12.50	12.44	11.02	12.54	12.39	12.43	12.69	13.05
16	12.78	12.84	12.35	12.78	12.34	12.40	11.90	12.38	12.37	12.53	12.85	12.81
17	12.91	12.59	11.19	12.71	12.27	12.38	12.14	12.51	12.39	12.62	12.85	12.88
18	12.79	12.78	10.04	12.65	10.31	12.29	12.19	12.33	12.39	12.21	12.85	13.06
19	12.82	12.72	9.85	12.66	9.29	12.18	12.13	12.24	12.47	12.33	12.58	12.94
20	12.77	12.68	9.87	12.61	8.88	12.20	12.13	10.87	12.49	12.65	12.94	12.96
21	12.71	12.68	10.31	12.61	9.33	12.31	12.26	9.73	12.48	12.33	12.84	12.83
22	12.71	12.83	11.45	12.35	10.78	12.24	12.17	9.61	12.39	12.56	12.84	12.85
23	12.70	12.87	12.12	12.43	11.77	12.15	12.35	10.00	12.35	12.55	12.74	12.74
24	12.80	12.66	12.07	12.57	11.97	12.16	12.20	9.63	12.32	12.30	13.02	12.94
25	12.75	12.64	12.23	12.72	11.94	12.16	12.24	8.93	12.47	12.52	12.77	12.98
26	12.75	12.60	12.34	12.70	12.17	12.32	12.48	8.71	12.28	12.45	12.76	12.91
27	12.81	12.74	12.43	12.58	12.33	12.36	12.30	9.13	12.44	12.29	12.91	12.84
28	12.85	12.65	12.41	12.79	12.07	12.52	12.54	10.24	12.49	12.27	13.04	12.90
29	12.89	12.89	12.53	12.73	---	12.58	12.49	11.25	12.46	12.20	12.91	12.89
30	12.85	12.52	12.48	12.62	---	12.57	12.47	11.43	12.55	12.36	12.78	12.97
31	12.72	---	12.46	12.46	---	12.64	---	11.62	---	12.06	13.22	---
MAX	12.91	13.01	12.95	12.81	12.69	12.64	12.67	12.67	12.55	12.65	13.22	13.17
MIN	12.48	12.52	9.85	12.35	8.88	12.15	11.02	8.71	11.79	12.06	11.94	12.74

WTR YEAR 2001 HIGH 8.71 LOW 13.22

JEFFERSON COUNTY

381701085414002. Local number (WC-8A), map number 15.--Continued



JEFFERSON COUNTY

381742085402001. Local number (WC-13), map number 16.

LOCATION.--Lat 38°17'42", long 85°40'20", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, 30 ft east of River Road, 300 ft northeast of junction of River Road and Blankenbaker Lane, in Louisville. Owner: Louisville Water Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4 in., depth 106 ft, screened 104-106 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 438.87 ft above NGVD of 1929. Measuring point: Top of plug, 3.07 ft above land-surface datum.

PERIOD OF RECORD.--June 1946 to current year. June 1946 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.28 ft below land-surface datum, Jan. 18, 1950: lowest measured, 19.75 ft below land-surface datum, Jan. 29, 1954.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Dec. 08, 2000	18.07	Jun. 25, 2001	17.63
Mar. 26, 2001	17.93	Sept. 27, 2001	18.01

381827085392401. Local number 39-18-1,(WC-26), map number 17.

LOCATION.--Lat 38°18'27", long 85°39'24", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, 20 ft east of River Road, opposite River Valley Club in Louisville. Owner: Louisville Water Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in., depth 130 ft, screened 128-130 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 455.94 ft above NGVD of 1929. Measuring point: Top of plug, 4.68 ft above land-surface datum.

PERIOD OF RECORD.--July 1946 to current year. July 1946 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.93 ft below land-surface datum, Jan. 18, 1950: lowest measured, 38.53 ft below land-surface datum, Feb. 3, 1948.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Dec. 08, 2000	34.36	Jun. 25, 2001	33.87
Mar. 26, 2001	33.52	Sept. 27, 2001	34.36

381904085384801. Local number (WC-27), map number 18.

LOCATION.--Lat 38°19'04", long 85°38'48", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, 30 ft west of River Road, 250 ft north of north end of bridge over Goose Creek, in Louisville. Owner: Louisville Water Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4 in., depth 96 ft, screened 94-96 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 438.46 ft above NGVD of 1929. Measuring point: Top of plug, 2.29 ft above land-surface datum.

PERIOD OF RECORD.--August 1946 to current year. August 1946 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.84 ft above land-surface datum, Jan. 17, 1950: lowest measured, 20.97 ft below land-surface datum, Feb. 3, 1948.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Dec. 08, 2000	18.11	Jun. 25, 2001	17.94
Mar. 26 2001	17.35	Sept. 27, 2001	18.21

JEFFERSON COUNTY

381958085380201. (Thompson well), map number 19.

LOCATION.--Lat 38°19'58", long 85°37'52", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, at 6600 Upper River Road, in well house next to drive, near horse barn. Owner: Thompson.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled used water-table well, diameter 6 in., depth 53 ft, screen: unknown.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 461.44 above NGVD of 1929. Measuring point: Top of well seal, 7.00 ft below land-surface datum.

REMARKS.--Water levels affected by pumping.

PERIOD OF RECORD.--March 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 37.62 ft below land-surface datum, Mar. 25, 1999; lowest measured, 42.05 ft below land-surface datum, Sept. 28, 2001.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Dec. 08, 2000	42.02	Jun. 26, 2001	41.25
Mar. 26, 2001	41.11	Sept. 28, 2001	42.05

382007085373801. (Bird Man), map number 20.

LOCATION.--Lat 38°20'07", long 85°37'38", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, at 7105 Upper River Road, in well house next to drive, near main house. Owner: Bird Man.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in., depth 61.5 ft, screen: unknown.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 453.83 ft above NGVD of 1929. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Water levels affected by pumping.

PERIOD OF RECORD.--March 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.23 ft below land-surface datum, Mar. 25, 1999; lowest measured, 33.99 ft below land-surface datum, Sept. 28, 2001.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Dec. 08, 2000	33.98	Jun. 26, 2001	33.16
Mar. 26, 2001	33.30	Sept. 28, 2001	33.99

382026085374301. (Little Dean), map number 21.

LOCATION.--Lat 38°20'26", long 85°37'43", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, at 6203 Mason Road, well is next to drive, 50 ft. northwest of house. Owner: Little Dean.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in., depth 90 ft, screen: unknown.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 460.26 ft above NGVD of 1929. Measuring point: Top of well seal, 1.30 ft above land-surface datum.

REMARKS.--Water levels affected by pumping.

PERIOD OF RECORD.--March 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.28 ft below land-surface datum, Mar. 25, 1999; lowest measured, 34.84 ft below land-surface datum, Sept. 28, 2001.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Dec. 08, 2000	34.74	Jun. 26, 2001	34.77
Mar. 26, 2001	34.81	Sept. 28, 2001	34.84

JEFFERSON COUNTY

382032085375601. (Staples), map number 22.

LOCATION.--Lat 38°20'32", long 85°37'56", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, at 6301 Mayfair Road, in concrete well pit next to drive, 15ft. north of garage. Owner: Staples.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in., depth 73 ft, screen: unknown.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 459.07 ft above NGVD of 1929 . Measuring point: Top of concrete slab above hole in well seal at land-surface datum.

REMARKS.--Water levels affected by pumping.

PERIOD OF RECORD.--March 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.35 ft below land-surface datum, Mar. 25, 1999; lowest measured, 41.58 ft below land-surface datum, Dec. 8, 2000.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Dec. 08, 2000	41.58	Jun. 26, 2001	40.54
Mar. 26, 2001	41.56	Sept. 28, 2001	41.23

JEFFERSON COUNTY

382039085375201. Local number (WP-7), map number 23.
LOCATION.--Lat 38°20'39", long 85°37'52", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, at Louisville Water Company B.E. Payne treatment plant. Owner: Louisville Water Company.
AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in., depth 83.5 ft, screen: unknown.
INSTRUMENTATION.--Continuous recorder, 30 minute interval.
DATUM.--Elevation of land-surface datum is 462.66 ft above NGVD of 1929. Measuring point: Top of casing, 3.80 ft above land-surface datum.
REMARKS.--Water levels affected by pumping.
PERIOD OF RECORD.--December 1997 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.44 ft below land-surface datum, May 12, 1998; lowest measured, 47.39 ft below land-surface datum, Feb. 12, 2001.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

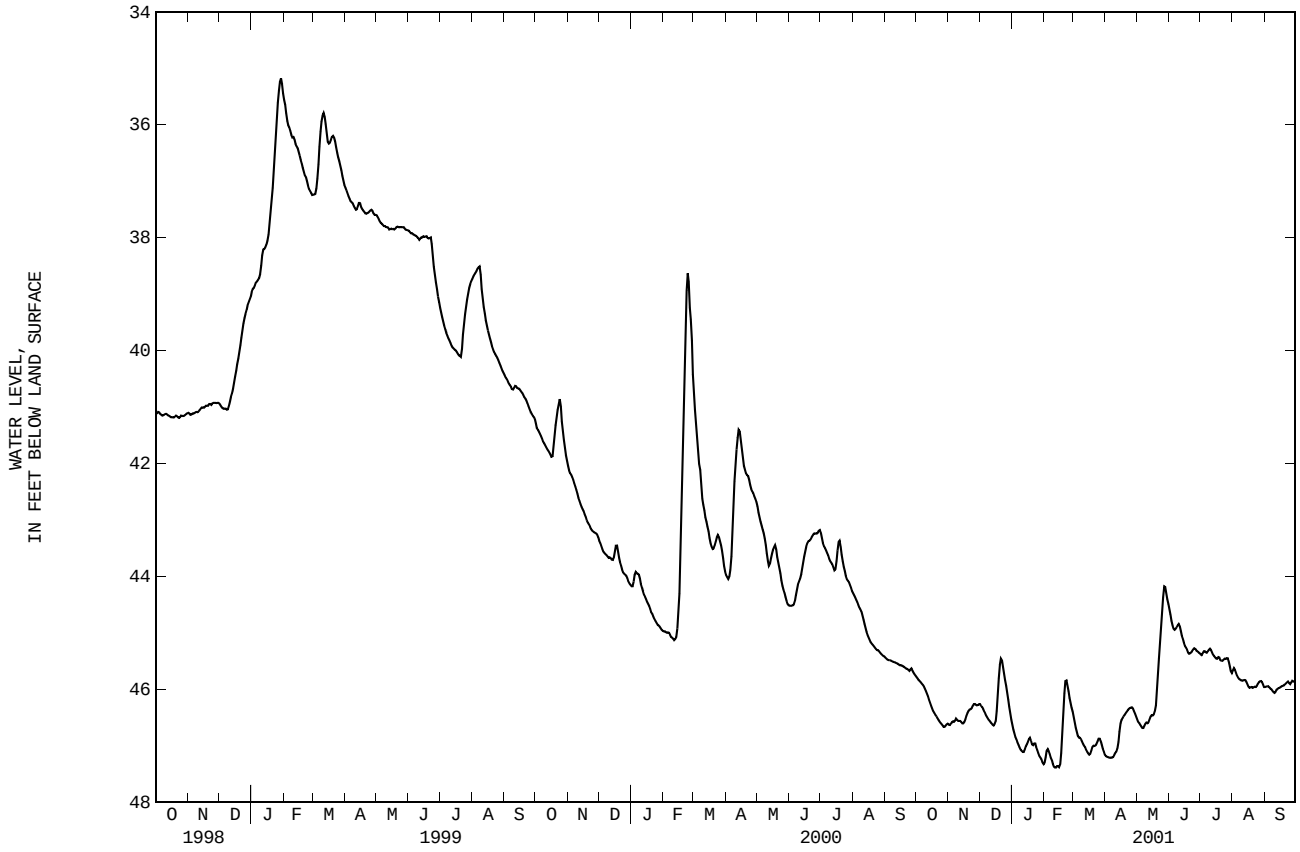
DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45.77	46.61	46.24	46.58	47.32	46.43	47.18	46.49	44.53	45.36	45.71	45.97
2	45.79	46.64	46.28	46.68	47.27	46.54	47.18	46.56	44.62	45.39	45.62	45.94
3	45.82	46.62	46.30	46.74	47.13	46.63	47.20	46.58	44.73	45.39	45.62	45.96
4	45.85	46.59	46.32	46.82	47.04	46.72	47.20	46.61	44.83	45.33	45.68	45.93
5	45.85	46.57	46.37	46.86	47.07	46.79	47.21	46.64	44.90	45.32	45.73	45.95
6	45.89	46.56	46.41	46.91	47.11	46.85	47.21	46.67	44.94	45.32	45.78	45.97
7	45.90	46.58	46.44	46.96	47.18	46.85	47.20	46.69	44.94	45.36	45.80	45.99
8	45.93	46.52	46.49	47.00	47.23	46.86	47.21	46.67	44.91	45.34	45.82	46.00
9	45.96	46.51	46.51	47.05	47.27	46.90	47.18	46.62	44.88	45.31	45.83	46.04
10	46.00	46.56	46.55	47.08	47.36	46.93	47.14	46.59	44.85	45.28	45.85	46.05
11	46.05	46.55	46.55	47.09	47.37	46.99	47.11	46.58	44.83	45.27	45.84	46.07
12	46.09	46.56	46.60	47.12	47.39	47.00	47.09	46.61	44.92	45.32	45.84	46.01
13	46.15	46.55	46.60	47.09	47.37	47.04	47.01	46.55	45.01	45.36	45.82	46.00
14	46.21	46.60	46.64	47.03	47.34	47.10	46.85	46.50	45.08	45.40	45.85	45.98
15	46.26	46.60	46.63	46.99	47.37	47.11	46.65	46.46	45.13	45.42	45.88	45.97
16	46.31	46.60	46.59	46.95	47.38	47.15	46.55	46.45	45.21	45.44	45.93	45.97
17	46.36	46.55	46.53	46.91	47.27	47.16	46.52	46.47	45.25	45.46	45.97	45.94
18	46.40	46.50	46.23	46.84	46.98	47.12	46.49	46.41	45.27	45.45	45.97	45.94
19	46.43	46.43	45.94	46.87	46.57	47.04	46.46	46.37	45.32	45.40	45.95	45.93
20	46.46	46.40	45.66	46.95	46.21	47.00	46.43	46.20	45.37	45.47	45.96	45.93
21	46.49	46.36	45.46	46.99	45.92	46.99	46.41	45.90	45.36	45.49	45.98	45.89
22	46.52	46.35	45.44	46.98	45.78	47.01	46.38	45.57	45.36	45.49	45.94	45.89
23	46.55	46.35	45.53	46.93	45.90	46.97	46.35	45.32	45.33	45.49	45.96	45.86
24	46.58	46.31	45.66	46.98	45.96	46.95	46.34	45.11	45.30	45.45	45.95	45.86
25	46.60	46.27	45.78	47.06	46.10	46.88	46.32	44.83	45.28	45.46	45.92	45.91
26	46.62	46.25	45.88	47.09	46.19	46.86	46.32	44.50	45.26	45.46	45.88	45.90
27	46.65	46.26	45.99	47.16	46.29	46.88	46.31	44.23	45.30	45.43	45.86	45.85
28	46.67	46.28	46.12	47.20	46.36	46.94	46.36	44.12	45.32	45.46	45.85	45.84
29	46.65	46.28	46.24	47.21	---	47.02	46.40	44.25	45.33	45.54	45.85	45.87
30	46.63	46.27	46.37	47.26	---	47.07	46.45	44.36	45.35	45.64	45.88	45.86
31	46.60	---	46.48	47.32	---	47.13	---	44.44	---	45.71	45.94	---
MAX	46.67	46.64	46.64	47.32	47.39	47.16	47.21	46.69	45.37	45.71	45.98	46.07
MIN	45.77	46.25	45.44	46.58	45.78	46.43	46.31	44.12	44.53	45.27	45.62	45.84

WTR YR 2001 HIGH 44.12 LOW 47.39

JEFFERSON COUNTY

382039085375201. Local number (WP-7), map number 23.--Continued



JEFFERSON COUNTY

382051085380801. Local Number (LWC-1), map number 24.
LOCATION.--Lat 38°20'51", long 85°37'08", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, at Louisville Water Company B.E. Payne treatment plant, 300 ft. west of lagoon #2, 100 ft. north of Mayfair road, along treeline. Owner: Louisville Water Company.
AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in., depth 76.5 ft, screened: 66-76 ft.
INSTRUMENTATION.--Continuous recorder, 30 minute interval.
DATUM.--Elevation of land-surface datum is 434.26 ft above NGVD of 1929. Measuring point: Top of casing, 3.40 ft above land-surface datum.
REMARKS.--Water levels affected by pumping.
PERIOD OF RECORD.--March 2000 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.24 ft below land-surface datum, May 26, 2001; lowest measured, 23.50 ft below land-surface datum, Feb. 12, 2001.

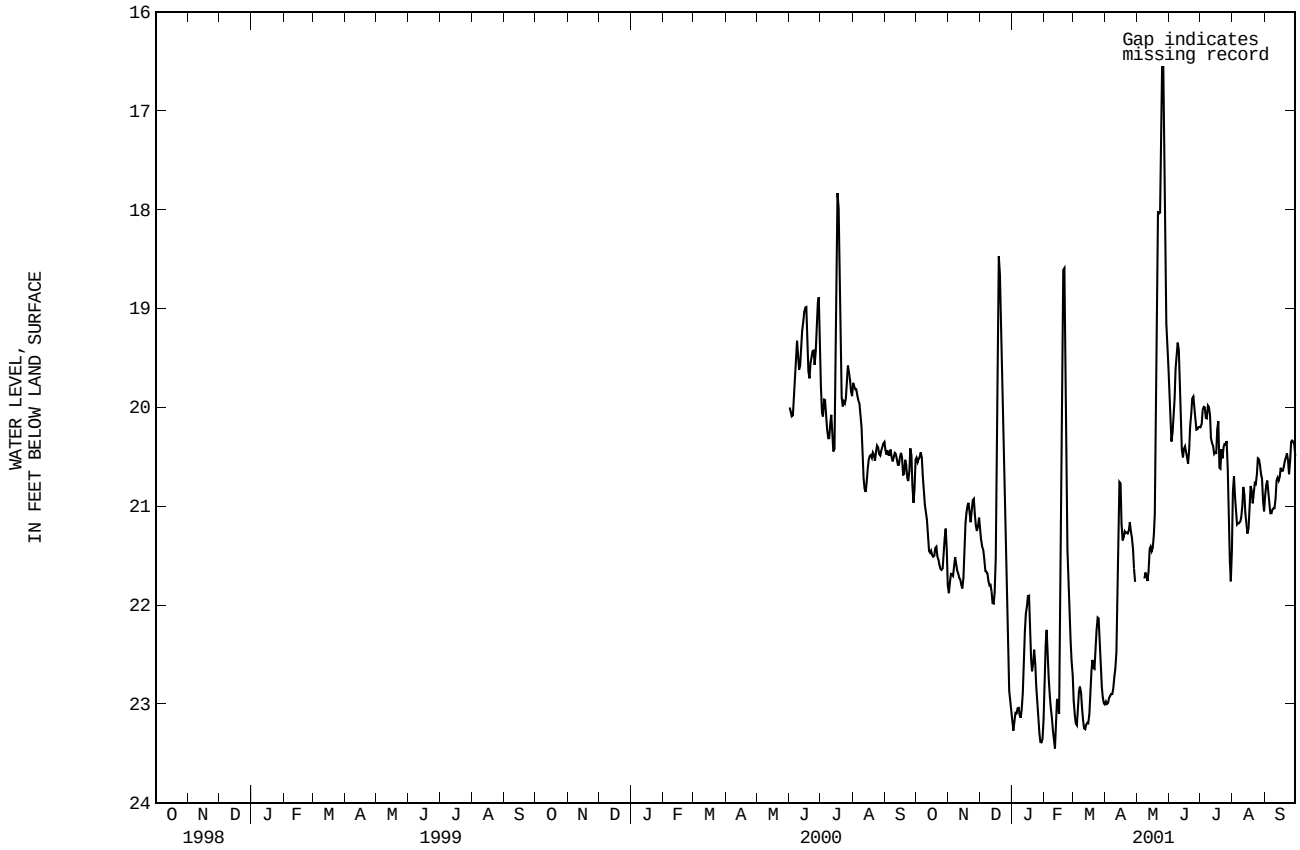
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.46	21.89	21.17	23.11	22.97	22.84	22.97	---	19.71	20.19	21.16	20.92
2	20.56	21.87	21.30	23.24	22.65	23.09	22.98	---	20.10	20.21	20.55	20.85
3	20.55	21.68	21.37	23.30	22.15	23.13	23.02	---	20.25	20.13	20.84	20.73
4	20.50	21.69	21.44	23.04	22.35	23.26	22.96	---	20.44	19.93	20.95	20.75
5	20.50	21.69	21.44	23.14	22.65	23.17	22.92	---	20.07	20.06	21.18	20.94
6	20.41	21.72	21.62	23.05	22.83	22.90	22.92	---	20.16	19.94	21.19	21.00
7	20.61	21.52	21.69	23.04	23.01	22.85	22.88	---	19.65	20.27	21.15	21.14
8	20.78	21.51	21.63	23.04	23.07	22.80	22.92	21.80	19.56	19.95	21.19	21.00
9	20.91	21.65	21.73	23.18	23.21	22.97	22.78	21.66	19.39	20.01	21.12	21.07
10	21.06	21.65	21.78	23.10	23.32	23.10	22.68	21.68	19.30	19.98	21.11	20.97
11	21.07	21.70	21.82	23.01	23.40	23.24	22.62	21.73	19.53	20.17	20.88	21.07
12	21.21	21.75	21.77	22.77	23.50	23.25	22.34	21.78	19.97	20.45	20.73	20.77
13	21.40	21.73	21.96	22.40	22.91	23.26	21.85	21.53	20.34	20.27	21.04	20.71
14	21.50	21.86	22.00	22.13	22.99	23.16	20.99	21.34	20.51	20.50	21.10	20.71
15	21.44	21.80	21.97	22.05	23.12	23.22	20.52	21.48	20.50	20.44	21.26	20.77
16	21.46	21.65	21.78	21.97	23.08	23.17	21.02	21.43	20.34	20.47	21.29	20.63
17	21.53	21.22	21.27	21.85	22.01	23.04	21.33	21.42	20.45	20.45	21.15	20.59
18	21.49	21.11	19.52	21.96	19.84	22.79	21.36	21.16	20.45	20.00	20.94	20.69
19	21.51	21.02	18.60	22.48	18.85	22.55	21.28	21.00	20.57	20.28	20.65	20.59
20	21.34	20.96	18.34	22.62	18.37	22.56	21.23	19.52	20.57	20.94	21.02	20.60
21	21.48	20.97	18.97	22.72	18.81	22.71	21.31	18.17	20.27	20.30	20.92	20.48
22	21.53	21.18	20.09	22.44	20.22	22.58	21.22	17.86	20.11	20.54	20.83	20.53
23	21.55	21.14	20.91	22.46	21.27	22.31	21.33	18.22	20.01	20.49	20.70	20.40
24	21.64	20.94	21.28	22.73	21.61	22.20	21.16	17.84	19.81	20.32	20.85	20.68
25	21.63	20.94	21.67	22.91	21.78	22.05	21.16	16.78	19.97	20.42	20.51	20.67
26	21.66	20.91	22.02	23.09	22.19	22.22	21.36	16.24	20.03	20.33	20.52	20.40
27	21.60	21.24	22.34	23.22	22.55	22.50	21.28	16.53	20.21	20.35	20.53	20.30
28	21.37	21.16	22.61	23.38	22.58	22.74	21.59	17.62	20.24	20.90	20.63	20.37
29	21.27	21.34	22.81	23.39	---	22.92	21.67	19.01	20.20	21.31	20.72	20.32
30	21.18	21.06	22.92	23.39	---	22.95	21.86	19.29	20.20	21.79	20.72	20.44
31	21.71	---	23.02	23.33	---	23.04	---	19.46	---	21.73	21.18	---
MAX	21.71	21.89	23.02	23.39	23.50	23.26	23.02	21.80	20.57	21.79	21.29	21.14
MIN	20.41	20.91	18.34	21.85	18.37	22.05	20.52	16.24	19.30	19.93	20.51	20.30

WTR YR 2001 HIGH 16.24 LOW 23.50

JEFFERSON COUNTY
382051085380801. Local number (LWC-1), map number 24.--Continued



JEFFERSON COUNTY

382058085373501. (Shirley Avenue), map number 25.

LOCATION.--Lat 38°20'58", long 85°37'35", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, at 6401 Shirley Avenue, 50 ft. to rear of house. Owner: Resident.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in., depth 45 ft, screen: unknown.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 463.40 ft above NGVD of 1929. Measuring point: Under hand pump thru hole in side of casing, at land-surface datum.

REMARKS.--Water levels affected by pumping.

PERIOD OF RECORD.--July 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.40 ft below land-surface datum, Jul. 7, 1999; lowest measured, 44.03 ft below land-surface datum, Mar. 26, 2001.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Dec. 08, 2000	43.57	Jun. 25, 2001	43.83
Mar. 26, 2001	44.03	Sept. 28, 2001	43.33

382102085380701. (WP-19), map number 26.

LOCATION.--Lat 38°21'02", long 85°38'07", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, at Louisville Water Company B.E. Payne treatment plant, 200 ft. east of collector well. Owner: Louisville Water Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in., depth 106 ft, screen: unknown.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 434.48 ft above NGVD of 1929. Measuring point: Top of casing, 2.28 ft above land-surface datum.

REMARKS.--Water levels affected by pumping.

PERIOD OF RECORD.--March 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.25 ft below land-surface datum, Mar. 1, 1999; lowest measured, 49.70 ft below land-surface datum, Mar. 26, 2001.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Dec. 08, 2000	43.13	Jun. 25, 2001	40.94
Mar. 26, 2001	49.70	Sept.. 28, 2001	39.50

382105085375101. (Hays-Kennedy), map number 27.

LOCATION.--Lat 38°21'05", long 85°37'51", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, at Hays Kennedy Park, 20 ft. south of Bass Road, along west edge of parking lot for picnic shelter. Owner: County Parks Dept.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in., depth 76.5 ft, screened: 66-76 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 439.68 ft above NGVD of 1929. Measuring point: Top of casing, 0.27 ft below land-surface datum.

REMARKS.--Water levels affected by pumping.

PERIOD OF RECORD.--March 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.09 ft below land-surface datum, Mar. 29, 2000; lowest measured, 29.15 ft below land-surface datum, Mar. 26, 2001.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Oct. 30, 2000	28.60	Mar. 26, 2001	29.15
Nov. 29, 2000	27.73	May 01, 2001	28.64
Dec. 08, 2000	28.04	Jun. 25, 2001	26.44
		Sept. 28, 2001	26.74

JEFFERSON COUNTY

382120085374701. (River Fields), map number 28.

LOCATION.--Lat 38°21'20", long 85°37'47", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, at Garvin-Brown Preserve, 1000 ft. north of Bass Road, along tree line separating Garvin-Brown Preserve from Hays-Kennedy Park. Owner: River Fields.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in., depth 71.5 ft, screened: 61-71 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 440.05 ft above NGVD of 1929. Measuring point: Top of casing, 0.19 ft below land-surface datum.

REMARKS.--Water levels affected by pumping.

PERIOD OF RECORD.--May 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.91 ft below land-surface datum, May 1, 2000; lowest measured, 23.06 ft below land-surface datum, Oct. 30, 2000.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Oct. 30, 2000	23.06	Mar. 26, 2001	23.00
Nov. 29, 2000	22.91	May 01, 2001	22.95
Dec. 08, 2000	23.01	Jun. 25, 2001	22.08
		Sept. 28, 2001	22.49

382124085375401. (Abell), map number 29.

LOCATION.--Lat 38°21'24", long 85°37'54", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, at 7222 Beechland Road, in well pit 200 ft. east of road Owner: Abell.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled used water-table well, diameter 4 in., depth 45 ft, screen: unknown.

INSTRUMENTATION.--Quarterly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 438.58 ft above NGVD of 1929. Measuring point: Top of well seal 3.66 ft below land-surface datum.

REMARKS.--Water levels affected by pumping.

PERIOD OF RECORD.--March 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.85 ft below land-surface datum, Mar. 25, 2000; lowest measured, 19.66 ft below land-surface datum, Aug. 21, 2000.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Water Level	Date	Water Level
Dec. 08, 2000	20.19	Jun. 25, 2001	19.54
Mar. 26, 2001	19.84	Sept. 28, 2001	19.98

380706083324900 - CLARK STATE FISH HATCHERY, ROWAN COUNTY, KY

(National Atmospheric Deposition Program network station)

LOCATION.--Lat 38°06'58", Long 83°33'18", Rowan County, Hydrologic Unit 05100101 at Clark State Fish Hatchery, 0.9 mi southwest of Clark State Fish Hatchery office, 1.2 mi west of Cave Run Reservoir Dam.

PERIOD OF RECORD.--September 1983 to current year.

INSTRUMENTATION.--Wet/dry precipitation collector, weighing bucket type recording rain gage.

REMARKS.--Samples collected on weekly basis by observer.

COOPERATION.--Chemical quality data were provided by the National Atmospheric Deposition Program.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PH FIELD ATM DEP WET T (UNITS) (83106)	SPEC. CONDUC-TANCE FIELD ATM DEP WET TOT (US/CM) (83154)	CALCIUM ATM DEP WET DIS (MG/L) (82932)	MAG-NESIUM ATM DEP WET DIS (MG/L) (83002)	POTAS-SIUM ATM DEP WET DIS (MG/L) (83120)	SODIUM ATM DEP WET DIS (MG/L) (83138)	CHLO-RIDE ATM DEP WET DIS (MG/L) (82944)	SULFATE ATM DEP WET DIS AS SO4 (MG/L) (83160)	NI-TROGEN AMMON. ATM DEP WET DIS AS NH4 (MG/L) (83047)	NI-TROGEN NITRATE ATM DEP WET DIS AS NO3 (MG/L) (83071)	PHOS-PHORUS ORTHO ATM DEP WET DIS AS PO4 (MG/L) (83111)	TOTAL PRECIP-ITATION FOR DEFINED PERIOD (IN) (00193)	VOLUME ATM DEP WET (L) (83177)
OCT 2000													
03-10	4.47	32.4	.592	.086	.510	.215	.34	3.52	.410	3.02	<.003	.32	.540
OCT													
17-24	4.12	47.6	.286	.066	.295	.156	.28	5.41	.760	3.12	.066	1.10	1.890
OCT													
24-31	--	--	.527	.116	.075	.544	.70	9.40	1.06	5.81	<.003	.05	.048
OCT 31-													
NOV 07	4.31	37.6	.688	.062	.046	.100	.32	3.46	.500	2.61	<.003	.05	.111
NOV													
07-14	5.02	7.4	.103	.013	.029	.026	.05	.63	.050	.45	<.003	.92	1.717
NOV													
21-28	4.55	16.9	.157	.017	.014	.026	.07	1.18	.110	1.30	<.003	.15	.275
NOV 28-													
DEC 05	--	--	.341	.057	.101	.013	.26	2.25	.550	3.82	<.003	.05	.067
DEC													
05-12	4.53	28.7	.231	.134	2.06	.069	.44	3.54	1.30	2.97	.129	.15	.207
DEC													
12-19	5.26	2.7	<.009	<.003	<.003	<.006	<.03	.14	<.020	.13	<.003	3.10	5.302
DEC 26 2000-													
JAN 02 2001	--	--	.284	.022	<.011	<.487	.77	.63	.130	2.81	<.011	.02	.028
JAN													
09-16	4.21	22.2	.120	.014	.036	.051	.13	1.88	.220	1.26	<.003	.07	.145
JAN													
16-23	4.55	11.1	.029	.005	.005	.016	.09	.92	.090	1.17	<.003	1.52	2.629
JAN													
23-30	4.39	20.8	.150	.014	.012	.054	.12	1.88	.220	1.26	<.003	.45	.680
JAN 30-													
FEB 06	4.12	43.9	.387	.025	.024	.041	.14	2.33	.640	6.05	<.003	.17	.309
FEB													
06-13	4.77	10.4	.176	.019	.017	.063	.10	.91	.140	.81	<.003	.37	.662
FEB													
13-20	4.41	15.7	.036	.003	.006	.012	.08	1.72	.070	.47	<.003	1.70	2.936
FEB													
20-27	4.75	9.3	.048	.008	.006	.033	.07	.52	.070	.81	<.003	.74	1.307
FEB 27-													
MAR 06	5.93	25.3	.068	.009	.017	.019	.14	2.44	.180	1.78	<.003	1.10	1.880
MAR													
06-13	4.48	18.0	.198	.029	.046	.051	.09	1.26	.120	1.49	<.003	.30	.519
MAR													
13-20	4.40	22.1	.358	.030	.067	.018	.07	1.90	.330	2.10	<.003	.30	.631

380706083324900 - CLARK STATE FISH HATCHERY, ROWAN COUNTY, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PH FIELD ATM DEP WET T (UNITS) (83106)	SPEC. CONDUC-TANCE FIELD ATM DEP WET TOT (US/CM) (83154)	CALCIUM ATM DEP WET DIS (MG/L) (82932)	MAG-NESIUM ATM DEP WET DIS (MG/L) (83002)	POTAS-SIUM ATM DEP WET DIS (MG/L) (83120)	SODIUM ATM DEP WET DIS (MG/L) (83138)	CHLO-RIDE ATM DEP WET DIS (MG/L) (82944)	SULFATE ATM DEP WET DIS AS SO4 (MG/L) (83160)	NI-TROGEN AMMON. ATM DEP WET DIS AS NH4 (MG/L) (83047)	NI-TROGEN NITRATE ATM DEP WET DIS AS NO3 (MG/L) (83071)	PHOS-PHORUS ORTHO ATM DEP WET DIS AS PO4 (MG/L) (83111)	TOTAL PRECIP-ITATION FOR DEFINED PERIOD (IN) (00193)	VOLUME ATM DEP WET (L) (83177)
MAR 2001													
20-27	4.56	15.9	.113	.016	.018	.017	.07	1.33	.160	1.17	<.003	1.10	2.009
MAR 27-APR 03	4.31	25.5	.246	.043	.195	.009	.07	1.99	.310	2.11	.035	.97	1.789
APR													
03-10	--	--	.899	.116	.117	.666	1.07	4.77	.820	4.55	<.003	.02	.058
APR													
10-17	5.08	21.1	.912	.159	.440	.460	.59	2.97	.730	3.35	.091	.32	.478
APR													
17-24	4.84	21.4	.465	.079	.120	.145	.21	2.69	.400	2.02	<.003	.32	.556
MAY													
01-08	3.66	64.3	.542	.074	.109	.225	.40	7.60	1.31	4.60	.048	.52	.737
MAY													
08-15	4.27	35.3	.349	.049	.029	.116	.20	3.49	.680	3.09	<.009	.20	.367
MAY													
15-22	4.68	13.9	.128	.015	.022	.064	.08	1.42	.270	.99	<.009	4.14	7.164
MAY													
22-29	5.34	12.4	.177	.015	.061	.020	.07	1.72	.690	1.35	.138	.92	1.637
MAY 29-JUN 05	4.71	12.7	.121	.016	.014	.058	.11	1.06	.190	1.03	<.009	.97	1.706
JUN													
05-12	3.94	32.4	.105	.014	.021	.049	.14	2.59	.280	2.67	<.009	.65	1.161
JUN													
12-19	5.29	6.2	.229	.039	.043	.093	.12	.64	.090	.45	<.009	1.75	2.933
JUN													
19-26	4.65	25.4	.293	.012	.490	.044	.21	3.84	2.34	2.10	.596	.44	.741
JUN 26-JUL 03	4.35	26.4	.329	.035	.031	.039	.11	3.13	.540	2.08	<.009	.45	.773
JUL													
03-10	4.48	18.1	.187	.014	.015	.020	.05	2.05	.410	1.46	<.009	4.95	8.431
JUL													
17-24	4.52	22.8	.125	.013	.008	.042	.10	2.73	.380	1.44	<.009	--	2.852
JUL													
24-31	4.55	13.4	.031	.004	.004	.008	.04	1.23	.100	.80	<.009	3.00	5.175
JUL 31-AUG 07	4.64	12.5	.149	.013	.012	.016	.05	.98	.180	.79	<.009	.29	.510
AUG													
07-14	4.38	19.7	.094	.007	.012	.012	.04	1.51	.310	1.23	<.009	2.45	4.199
AUG													
14-21	4.18	33.9	.320	.030	.097	.027	.19	4.70	.940	2.63	<.009	.10	.228
AUG													
21-28	5.83	16.2	2.00	.330	.570	.058	.27	3.50	<.020	1.46	.013	.12	.250
AUG 28-SEP 04	4.24	27.4	.185	.019	.028	.017	.09	2.91	.410	2.38	<.009	.20	.360
SEP													
04-11	4.59	19.2	.227	.025	.041	.079	.16	2.36	.490	1.77	<.009	.10	.172
SEP													
11-18	3.94	60.0	.716	.080	.090	.030	.21	6.32	1.14	6.27	<.009	.05	.092
SEP													
18-25	5.54	11.4	.159	.067	.284	.031	.10	1.61	.390	1.13	.060	1.15	2.091

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

STATION NAME AND LOCATION	STATION NUMBER	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	COMPLETE FLOW	COM-PLETE STAGE	PEAK FLOW	LOW FLOW	MISC FLOW MEAS
CARD CR AT MOUTHCARD, KY	03207845	4.18	1973-75	E	E			
FEDS CR AT FEDS CR, KY	03207875	11.60	1973-75	E	E			
BIG CR AT DUNLAP, KY	03207905	9.55	1974-76	E	E			
ELKFOOT BRANCH NR NIGH, KY	03207915	.70	1980-84	E	E			
ISLAND CR NR PHYLLIS, KY	03207925	2.42	1974	E	E			
LICK CR AT LICK CR, KY	03207935	6.70	1973-76	E	E			
MILLERS CR NR PHYLLIS, KY	03207940	1.68	1973-75	E	E			
DICKS FK AT PHYLLIS, KY	03207962	.82	1975-84	E	E			
GRAPEVINE CR NR PHYLLIS, KY	03207965	6.20	1974-82	E		E	E	
			1989-92					
LEVISA FK BELOW FISHTRAP DAM, NR MILLARD, KY	03208000	392	1938-92*	E		C	E	
RUSSELL FORK AT ELKHORN CITY, KY	03209300	554.00	1960-92	E	E		E	
ELKHORN CR NR ELKHORN CITY, KY	03209400	48.80	1967-72	E		E	E	
SHELBY CR AT DORTON, KY	03209440	12.60	1971-76*	E	E	E	E	
SHELBY CR AT SHELBIANA, KY	03209460	112.00	1965				E	
			1972-81					
MUD CR AT HAROLD, KY	03209545	51.90	1975-81				E	
BILL D BR NR KITE, KY	03209575	3.17	1976-86			E		
RIGHT FK BEAVER CR AT WAYLAND, KY	03209600	73.90	1959-75				E	
BEAVER CR AT MARTIN, KY	03209700	228.00	1953-72				E	
LEVISA FK AT PRESTONSBURG, KY	03209800	1702.00	1964-81		E			
MIDDLE CR NR PRESTONSBURG, KY	03209890	62.10	1975-81				E	
RACCOON CR NR ZEBULON, KY	03210040	14.80	1974-75*	E	E			
CANEY FK NR GULNARE, KY	03210160	3.74	1974-75*	E	E	E		
BRUSHY FK AT HEENON, KY	03210310	20.40	1974-76	E	E			
BUFFALO CR NR ENDICOTT, KY	03210420	6.21	1974-75*	E	E			
JOHNS CR NR PRESTONSBURG KY	03210500	197.00	1938-40		E			
JOHNS CR NR VAN LEAR, KY	03211500	206	1939-92*	E		C	E	
OPEN FK PAINT CR NR RELIEF, KY	03211945	25.50	1975-81				E	
PAINT CR NR STAFFORDSVILLE, KY	03212000	103.00	1950-75*	E	E	E	E	
KERSHAW BR NR HURLEY, VA	03213577	.60	1981-82		E			
CAMP CR NR ARGO, KY	03213594	1.60	1981-82		E			
KNOX CR AT ARGO, KY	03213600	95.90	1958-72				E	
R FK HURRICANE CR NR STOPOVER, KY	03213630	.82	1980-83		E			
BIG CR NR HATFIELD, KY	03213790	59.10	1975-81				E	
WOLF CR AT PILGRIM, KY	03214400	62.80	1975-81				E	
ROCKCASTLE CR AT CLIFFORD, KY	03214730	121.00	1965-65					E
			1972-81					
BIG SANDY R AUXILIARY AT LOUISA, KY	03214980	3885.00	1938-76		E			
BIG SANDY R AT LOUISA, KY	03215000	3897.00	1939-77		E			C
BLAINE CR ABOVE CAINS CR NR BLAINE, KY	03215362	64.70	1975-81				E	
BLAINE CR NR BLAINE, KY	03215410	119.00	1972-76				E	
BLAINE CR AT YATESVILLE, KY	03215500	217.00	1915-75*	E	E	E	E	
OHIO R AT ASHLAND, KY	03216000	60750.00	1939-75		E			
LITTLE SANDY R AT SANDY HOOK, KY	03216190	35.70	1970-74				E	
LITTLE SANDY R NR SANDY HOOK, KY	03216200	60.40	1954-69				E	
LITTLE SANDY R BELOW GRAYSON DAM NR LEON, KY	03216350	196	1966-92	E		C	E	
LITTLE SANDY R AT LEON, KY	03216400	255.00	1962-80		C			
LITTLE FK LITTLE SANDY R NR WILLARD, KY	03216438	58.10	1975-81				E	
LITTLE FK LITTLE SANDY R NR GRAYSON, KY	03216480	132.00	1965-65					E
			1972-81					
BECKWITH BR TRIBUTARY NR GRAYSON, KY	03216505	.51	1977-86			E		
E FK LITTLE SANDY R NR FALLSBURG, KY	03216540	12.20	1972-91	E	E	E	E	
E FK LITTLE SANDY R NR CANNNONSBURG, KY	03216550	38.20	1980-81		E		E	
MILE BRANCH NR RUSH, KY	03216563	.94	1976-90			E		
MILE BR NR COALTON, KY	03216564	1.61	1977-86			E		
E FK LITTLE SANDY R NR ARGILLITE, KY	03216570	138.00	1968-76				E	
TYGARTS CREEK AT OLIVE HILL, KY	03216800	59.6	1957-94	E	E	E	E	
TROUGH CAMP CR TRIB NR OLIVE HILL, KY	03216901	1.11	1976-86			E		
TYGARTS CR NR KEHOE, KY	03216935	124.00	1963-74		E			E
BUFFALO CR BELOW GRASSY CR AT KEHOE, KY	03216965	54.60	1975-81				E	
KINNICONICK CR NR KINNICONICK, KY	03237225	60.10	1975-81				E	
KINNICONICK CR NR RUGLESS, KY	03237230	109.00	1954-72				E	
LAUREL FK NR CAMP DIX, KY	03237246	57.00	1975-81				E	
INDIAN RUN TRIB NR TOLLESBORO, KY	03237895	.23	1975-86					
CABIN CR NR TOLLESBORO, KY	03237900	22.40	1972-91	E	E	E	E	
CABIN CR NR PLUMVILLE, KY	03237985	57.60	1975-78				E	
			1980-81					
OHIO R AT MAYSVILLE, KY	03238000	70130.00	1939-80		E	E		
LAWRENCE CR NR MAYSVILLE, KY	03238030	1.90	1975-86			E		
BRACKEN CR NR AUGUSTA, KY	03238620	28.80	1975-78				E	

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

STATION NAME AND LOCATION	STATION NUMBER	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	COMPLETE FLOW	COM-PLETE STAGE	PEAK FLOW	LOW FLOW	MISC FLOW MEAS
			1980-81					
LOCUST CR NR AUGUSTA, KY	03238660	41.70	1975-78				E	
			1980-81					
TWELVEMILE CR NR CALIFORNIA, KY	03238750	44.30	1975-81				E	
DUCK CR AT COLD SPRING, KY	03238795	.49	1975-78			E		
LICKING R AT FREDVILLE, KY	03248170	40.30	1973-76				E	
LICKING R AT ROYALTON, KY	03248250	76.70	1973-76				E	
LICKING R NR SALYERSVILLE, KY	03248500	140	1939-92,	E	E	E	E	
			1994-97					
ELK FK NR LENOX, KY	03248685	59.40	1958-73				E	
CANEY CR NR W LIBERTY, KY	03248730	41.40	1973-75				E	
GRASSY CR NR W LIBERTY, KY	03248765	46.10	1974-79				E	
			1981					
BLACKWATER CR NR EZEL, KY	03248815	38.30	1974-81				E	
N FK LICKING R NR WRIGLEY, KY	03248855	33.70	1974-81				E	
LICKING R AT YALE, KY	03249000	714.00	1937-42		E			
LICKING R AT FARMERS, KY	03249500	827	1915-20		E			
			1928-31	E	E			
			1936-87	E	E			
			1938-94	E	E	E	E	
TRIPLETT CR AT MOREHEAD, KY	03250000	47.5	1941-82	E		E	E	
			1989-92					
JACKS BRANCH NR MOREHEAD, KY	03250080	.19	1976-86			E		
N FK TRIPLETT CR AT MOREHEAD, KY	03250100	84.7	1967-94	E	E	E	E	
INDIAN CR NR OWINGSVILLE, KY	03250150	2.43	1975-90			E		
SLATE CR NR JEFFERSNVILLE, KY	03250185	56.70	1973-81				E	
SLATE CR NR OWINGSVILLE, KY	03250240	185.00	1954-72				E	
ROSE RUN TRIB NR OLYMPIA, KY	03250243	.70	1975-86			E		
ROCK LICK CR NR SHARKEY, KY	03250320	4.01	1973-82		E			
FOX CR NR HILLSBORO, KY	03250330	110.00	1953-72					E
FLEMING CR NR HILL TOP, KY	03250470	77.20	1954-72				E	
LICKING R AT BLUE LICK SPRINGS, KY	03250500	1785.00	1938-59*	E	E	E		
JOHNSON CR TRIB NR FAIRVIEW, KY	03250620	.33	1976-86			E		
JOHNSON CR AT PIQUA, KY	03250640	72.40	1973-74				E	
N FK LICKING R NR LEWISBURG, KY	03251000	119.00	1946-91	E	E	E	E	
WELLS CR TRIB NR WASHINGTON, KY	03251008	.96	1977-86		E	E		
LEES CR TRIB AT MAYS LICK, KY	03251015	.45	1975-86		E	E		
N FK LICKING R NR MILFORD, KY	03251400	286.00	1954-72				E	
LICKING R AT MCKINNEYSBURG, KY	03251500	2326.00	1924-26	E	E	E	E	
			1939-94					
STONER CR NR N MIDDLETOWN, KY	03251665	51.60	1974-81				E	
STRODES CR NR N MIDDLETOWN, KY	03251790	53.60	1973-81				E	
STONER CR AT PARIS, KY	03252000	239.00	1953-91	E	E	E	E	
GRASSY LICK CR NR SHARPSBURG, KY	03252188	40.60	1973-74			E		
HINKSTON CR NR SHARPSBURG, KY	03252190	78.90	1973-77			E		
HINKSTON CR NR CARLISLE, KY	03252300	154.00	1968-76			E		
S FK LICKING R AT CYNTHIANA, KY	03252500	621.00	1938-94	E		E	E	
RAVEN CR NR BERRY, KY	03252770	46.60	1973-81				E	
FK LICK CR AT MORGAN, KY	03252940	50.20	1973-81				E	
SF LICKING R AT HAYES, KY	03253000	920.00	1915-31			E		
LICKING R AT BUTLER, KY	03254000	3385.00	1938-42			E		C
N FK GRASSY CR NR PINER, KY	03254400	13.60	1967-83		E			
GRASSY CR AT DEMOSSVILLE, KY	03254460	119.00	1950-72				E	
LICKING R AT MORNING VIEW, KY	03254500	3539.00	1914-16		E			
BANKLICK CR NR S FT MITCHELL, KY	03254680	54.60	1974-81			E		
OHIO R AT CINCINNATI, OH	03255000	76580.00	1936-76		E	E		
FOWLERS FORK AT UNION, KY	03277070	1.54	1976-90			E		
PLEASANT RUN CR AT CRESENT SPRINGS, KY	03260010	.68	1973-86			E		
PLEASANT RUN CR TRIB AT FT MITCHELL, KY	03260012	1.62	1973-90			E		
GUNPOWDER CR NR UNION, KY	03277100	50.20	1975-81				E	
CRAIGS CR TRIB NR WARSAW, KY	03277185	.68	1976-86					
OHIO R AT MARKLAND D NR WARSAW, KY	03277210	83170.00	1915-65					
BOTTOM FK NR MAYKING, KY	03277290	3.03	1976-87			E		
N FK KENTUCKY R AT WHITESBURG, KY	03277300	66.40	1953-75		E	E		
N FK KENTUCKY R AT BLACKEY, KY	03277340	131.00	1965-65				E	
			1972-81					
ROCKHOUSE CR NR FLETCHER, KY	03277360	51.60	1958-67				E	

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

STATION NAME AND LOCATION	STATION NUMBER	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	COMPLETE FLOW	COM-PLETE STAGE	PEAK FLOW	LOW FLOW	MISC FLOW MEAS
LINE FK AT DEFEATED CR, KY	03277370	40.80	1958-76				E	
LEATHERWOOD CR AT DAISY, KY	03277400	40.9	1964-74, 1991-98	E	E	E	E	
N FK KENTUCKY R AT CORNETTSVILLE, KY	03277411	322.00	1958-72				E	
BREEDING CR NR ISOM, KY	03277437	.69	1977-85			E		
CARR FORK NR SASSAFRAS, KY	03277450	60.6	1963-94	E	E	E	E	
N FK KENTUCKY R AT HAZARD, KY	03277500	466	1940-92	E		E	E	
BRIAR FK NR HAZARD, KY	03277630	1.32	1976-85			E		
TROUBLESOME CR AT DRAWF, KY	03277835	59.90	1958-67				E	
BALLS FK AT ARY, KY	03277915	45.40	1959-75				E	
BEAR BR NR NOBLE, KY	03278000	2.21	1955-73*		E	E		
TROUBLESOME CR AT NOBLE, KY	03278500	177.00	1950-81		E			
TROUBLESOME CR NR CLAYHOLE, KY	03279000	187.00	1928-31		E			
QUICKSAND CR AT LUNAH, KY	03279400	101.00	1958-72				E	
QUICKSAND CR NR JACKSON, KY	03279500	153.00	1928-31		E			
N FK KENTUCKY R NR AIRDALE, KY	03280500	1294.00	1928-42		E			
MIDDLE FK KENTUCKY R AT ASHER, KY	03280551	70.60	1958-76				E	
GREASY CR AT NAPIER, KY	03280570	37.70	1975-81				E	
GREASY CR AT HOSKINSTON, KY	03280590	95.00	1958-67				E	
MIDDLE FK KENTUCKY R NR HYDEN, KY	03280600	202	1957-92	E		E	E	
BULL CR NR HYDEN, KY	03280728	1.84	1976-86			E		
MIDDLE FK KENTUCKY R AT BUCKHORN, KY	03280900	420.00	1957-75*	E	E	E		
STAMPER FK AT CANOE, KY	03280935	1.57	1975-87			E		
RED BIRD R NR SPRING CR, KY	03281016	52.70	1976-81				E	
RED BIRD R AT BIG CR, KY	03281030	125.00	1954-72				E	
RED BIRD RIVER NR BIG CREEK	03281040	155	1973-00	E	E	E	E	
GOOSE CR AT GOOSEROCK, KY	03281065	49.60	1976-81				E	
COLLINS FK AT BLUEHOLE, KY	03281080	67.40	1958-76				E	
PACES CR NR GARRARD, KY	03281090	.47	1976-85			E		
S FK KENTUCKY R AT ONEIDA, KY	03281200	486.00	1958-82			E		
SEXTON CR AT TAFT, KY	03281350	71.00	1959-64 1967 1975-77 1979-81				E	
STURGEON CR NR HEIDELBERG, KY	03282045	96.40	1942-72				E	
BIG SINKING CR NR CRYSTAL, KY	03282075	23.4	1988-89*	E	E			
FURNACE FK NR CRYSTAL, KY	03282100	9.94	1988-89*	E	E			
S FK STATION CAMP CR NR DRIP ROCK, KY	03282135	41.40	1959-76				E	
STATION CAMP CR AT WAGERSVILLE, KY	03282170	115.00	1954-72				E	
REDLICK CR NR STATION CAMP, KY	03282190	69.50	1959-76				E	
CLEAR CR TRIB NR WEST IRVINE, KY	03282198	.59	1975-86			E		
STILLWATER CR AT STILLWATER, KY	03283000	24.00	1954-73*	E	E	E		
RED R NR PINE RIDGE, KY	03283100	142.00	1969-76				E	
M FK RED R AT ZACHARIAH, KY	03283305	.58	1975-86			E		
CAT CR NR STANTON, KY	03283370	8.30	1987-89*	E	E			
LULBEGRUD CR TRIB AT WESTBEND, KY	03283610	.33	1975-86					
LULBEGRUD CR AT LOG LICK, KY	03283630	49.30	1973-81				E	
MUDDY CR AT DOYLESVILLE, KY	03283830	63.80	1973-77 1979-81				E	
OTTER CR NR FORD, KY	03283995	63.50	1973-77				E	
BOONE CR AT GRIMES MILL RD NR LOCUST GROVE, KY	03284100	41.80	1967-74				E	
SILVER CR NR KINGSTON, KY	03284300	28.60	1967-83		E			
SILVER CR NR BEREA, KY	03284310	53.40	1975-83			E	E	
OLD TOWN BR TR NR RICHMOND, KY	03284340	1.83	1976-85			E		
SILVER CR NR RICHMOND, KY	03284350	98.50	1972-77 1979-81				E	
PAINT LICK CR AT PAINT LICK, KY	03284415	54.40	1973-74				E	
PAINT LICK CR NR MCCREARY, KY	03284450	97.60	1954-74				E	
SUGAR CR NR BUCKEYE, KY	03284495	41.50	1975-77				E	
KENTUCKY R AT LOCK 8 NR CAMP NELSON, KY	03284500	4414.00	1910-71*	E	E	E		
W HICKMAN CR AT JONESTOWN, KY	03284550	11.00	1975-84		E			
KENTUCKY R AT CAMP NELSON, KY	03284600	4528.00	1940-71		E	E		
DIX R AB COPPER CR NR CRAB ORCHARD, KY	03284720	44.40	1973-76				E	
DIX R BL COPPER CR NR CRAB ORCHARD, KY	03284750	70.60	1973-76				E	
DIX R NR STANFORD, KY	03284800	160.00	1973-76				E	
HANGING FK CR NR STANFORD, KY	03284935	46.90	1973-74				E	
HANGING FK CR NR HUBBLE, KY	03284995	91.10	1973-74				E	
BALLS BR TRIB NR DANVILLE, KY	03285100	.13	1976-86			E		

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

STATION NAME AND LOCATION	STATION NUMBER	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	COMPLETE FLOW	COM-PLETE STAGE	PEAK FLOW	LOW FLOW	MISC FLOW MEAS
CLARKS RUN NR DANVILLE, KY	03285200	26.4	1992-97		E	E	E	
DIX R NR BURGIN, KY	03285500	395.00	1909-22		E			
KENTUCKY R AT L7 AT HIGHBRIDGE, KY	03286500	5036.00	1901-27		E			
TANNERS CREEK AT MORTONSVILLE, KY	03287128	1.49	1976-88, 90			E		
CLEAR CR NR MORTONSVILLE, KY	03287130	61.60	1973-77				E	
GILBERT CR TR NR SALVISA, KY	03287160	.81	1975-78			E		
S BENSON CR NR FRANKFORT, KY	03287534	4.47	1976-86			E		
BENSON CR NR FRANKFORT, KY	03287550	107.00	1943-72				E	
N ELKHORN CR NR GEORGETOWN, KY	03288000	119	1950-84	E	E	E	E	
			1989-99					
CANE RUN NR GEORGETOWN, KY	03288260	45.40	1973-74				E	
N ELKHORN CR AT SWITZER, KY	03288450	265.00	1972-77				E	
CAVE CR NR FORT SPRING, KY	03288500	2.53	1953-72*	E	E	E	E	
S ELKHORN CR AT FORT SPRING, KY	03289000	24.0	1950-92	E		E	E	
WOLF RUN AT CAMBRIDGE DR AT LEXINGTON, KY	03289190	5.30	1976-88			E		
S ELKHORN CR NR WOODLAKE, KY	03289410	156.00	1972-81				E	
FLAT CR NR FRANKFORT, KY	03290000	5.63	1952-71		E	E		
SIX MILE NR DEFOE, KY	03290420	42.60	1973-74				E	
SIX MILE CR NR LOCKPORT, KY	03290490	76.50	1973-74				E	
TOWN CR AT NEW CASTLE, KY	03290580	5.62	1976-86			E		
DRENNON CR AT DRENNON SP, KY	03290675	82.50	1973-74				E	
EAGLE CR AT SADIEVILLE, KY	03291000	42.90	1941-75*	E	E	E	E	
S RAYS FK TRIB NR CORINTH, KY	03291050	0.58	1976-86			E		
EAGLE CR NR NEW COLUMBUS, KY	03291110	124.00	1972-74				E	
EAGLE CR NR HOLBROOK, KY	03291270	258.00	1954				E	
			1957					
			1962					
			1972-81					
TEN MILE CR NR FOLSOM, KY	03291490	68.40	1973-76				E	
LITTLE KY R NR BEDFORD, KY	03291700	73.20	1950-72				E	
CORN CR NR BEDFORD, KY	03292100	27.50	1975-81				E	
JEFF BR NR SLIGO, KY	03292200	.87	1976-86			E		
HARRODS CR NR LAGRANGE, KY	03292460	24.1	1967-94	E	E	E	E	
HARRODS CR NR SKYLIGHT, KY	03292467	60.30	1972-74				E	
S FK HARRODS CR NR CRESTWOOD, KY	03292472	.97	1975-88			E		
MILL CREEK CUTOFF NR LOUISVILLE, KY	03294550	24.4	1988-94	E	E	E	E	
SALT R NR HARRODSBURG, KY	03295000	41.40	1953-73*	E	E	E		
SALT R AT FOX CR, KY	03295290	131.00	1972-76				E	
SALT R NR VAN BUREN, KY	03295500	196.00	1938-82		E			
BEECH CR NR TAYOLORSVILLE, KY	03295580	53.20	1974-76				E	
SALT R AT TAYLORSVILLE, KY	03295610	359.00	1937-75				E	
			1972-76					
BULLSKIN CR AT FINCHVILLE, KY	03295705		1974-75		E		E	
BRASHEARS CR NR FINCHVILLE, KY	03295800	147.00	1953-72				E	
BRADSHAW CR NR SHELBYVILLE, KY	03295845	1.36	1976-86			E		
SIMPSON CR NR TAYLORSVILLE, KY	03295985	57.30	1974-76			E		
PLUM CR SUBWATER SHED NO 4 NR SIMPSONVILLE, KY	03296000	1.55	1955-64*		E			
PLUM CR NR WILSONVILLE, KY	03296500	19.10	1954-61*	E	E	E	E	
PLUM CR SWS N 15 NR WILSONVILLE, KY	03296700	1.03	1957-61*		E			
PLUM CR SWS N 17 NR WATERFORD, KY	03296800	.52	1957-61*		E			
LITTLE PLUM CR NR WATERFORD, KY	03297000	5.15	1954-61*	E	E	E		
PLUM CR AT WATERFORD, KY	03297500	31.80	1954-74*	E	E	E		
COX CR NR HIGHGROVE, KY	03297700	95.80	1968-72				E	
FLOYDS FK NR CRESTWOOD, KY	03297845	46.70	1979-91	E	E	E	E	
LONG RUN NR EASTWOOD, KY	03297970	15.20	1974-77*	E	E	E		
FLOYDS FK NR GAP IN KNOB, KY	03298390	259.00	1972-76				E	
ELM LICK CR NR CLERMONT, KY	03298535	.68	1976-86			E		
N ROLLING FK NR GRAVEL SWITCH, KY	03298710	66.20	1974-81				E	
N ROLLING FK AT BRADSFORDVILLE, KY	03298760	95.70	1972-77				E	
BIG S FK AT BRADSFORDVILLE, KY	03298865	59.60	1974-81				E	
ROLLING FK NR LEBANON, KY	03299000	239	1938-92	E		E	E	
POTTINGER CR NR NEW HOPE, KY	03299445	43.50	1974-78				E	
			1980-81					
BEECH FK NR SPRINGFIELD, KY	03300000	85.90	1953-72		E	E		
N PRONG NR WILLISBURG, KY	03300065	1.71	1975-89			E		
CHAPLIN R AT SHARPSVILLE, KY	03300300	140.00	1954-72				E	
CHAPLIN R NR CHAPLIN, KY	03300390	262.00	1972-77				E	

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

STATION NAME AND LOCATION	STATION NUMBER	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	COMPLETE FLOW	COM-PLETE STAGE	PEAK FLOW	LOW FLOW	MISC FLOW MEAS
CARTWRIGHT CR AT FREDRICKTOWN, KY	03300498	82.30	1972-77				E	
BEECH FK AT FREDERICKTOWN, KY	03300500	542.00	1929-32		E			
HARDINS CR NR HOLY CROSS, KY	03300780	57.80	1975-78				E	
			1980-81					
TOWN CR TRIB AT BARDSTOWN, KY	03300990	.32	1975-86					
BEECH FK AT BARDSTOWN, KY	03301000	669.00	1939-74	E	E	E		
WILSON CR NR DEATSVILLE, KY	03301580	27.7	1991-96	E	E	E	E	
SLOP DITCH NR OKOLONA, KY	03301885	1.4	1994-96	E	E	E	E	
NORTHERN DITCH AT OKOLONA, KY	03301940	11.10	1974-79		E			
OTTER CR TRIB NR VINE GROVE, KY	03302085	.90	1975-86					
OTTER CR AT GRAHAMTON, KY	03302100	88.40	1953-72				E	
DOE RUN NR BRANDENBURG STATION, KY	03302150	52.70	1953-72				E	
SINKING CR AT ROSETTA, KY	03303195	36.00	1970-76				E	
SINKING CR DENTS BR NR IRVINGTON, KY	03303198	66.10	1970-76				E	
SINKING CR NR IRVINGTON, KY	03303200	86.70	1953-72				E	
SINKING CR NR LODIBURG, KY	03303205	125.00	1971-77				E	
SINKING CR AT SAMPLE, KY	03303210	222.00	1953-70				E	
BLACKFORD CR NR MACEO, KY	03303450	111.00	1953-74				E	
OHIO R AT OWENSBORO, KY	03303500	97200.00	1940-54*	E	E	E		
MCGILLS CR NR MCKINNEY, KY	03304500	2.14	1951-71*	E		E		
GREEN R NR MCKINNEY, KY	03305000	22.40	1951-73*	E	E	E		
GREEN R NR MOUNT SALEM, KY	03305500	36.30	1954-61*	E	E	E		
GREEN R AT MIDDLEBURG KY	03305520	66.50	1972-74				E	
CARPENTER CR TRIB NR HUSTONVILLE, KY	03305559	.88	1976-86					
GREEN R NR DUNNVILLE, KY	03305660	221.00	1972-77				E	
S FK NR DUNNVILLE, KY	03305720	71.00	1972-78				E	
IRVIN BRANCH NR SALEM, KY	03305725	1.37	1976-86			E		
GOOSE CR AT DUNNVILLE, KY	03305760	51.60	1972-77				E	
GREEN R AT NEATSVILLE, KY	03305800	399.00	1953-73				E	
GUM LICK TRIB NR CLEMENTSVILLE, KY	03305835	.71	1976-90			E		
CASEY CR AT CASEY CR, KY	03305865	74.70	1972-77				E	
ROBINSON CR AT ACTON, KY	03305945	48.40	1974-81				E	
GREEN R AT CAMPBELLSVILLE, KY	0330600	682	1930-32	E	E			
			1963-94	E	E	E	E	
GREEN R AT GREENSBURG, KY	03306500	736.00	1939-75*	E	E	E		
WHITE OAK CR TR NR MONTPELIER, KY	03306640	.50	1976-86	E		E		
RUSSELL CR NR JOPPA, KY	03306690	62.90	1974-81				E	
RUSSELL CR AT COLUMBIA, KY	03306850		1972-74				E	
RUSSELL CR NR GRESHAM, KY	03307100	265.00	1965-75*	E	E	E	E	
BIG PITMAN CR NR BENGAL, KY	03307215	47.70	1974-78				E	
			1980-81					
LITTLE PITTMAN CR NR CAMPBELLSVILLE, KY	03307260	19.3	1990-95	E	E	E	E	
BIG PITMAN CR NR SUMMERSVILLE, KY	03307295	126.00	1953-72				E	
BIG BRUSH CR NR SUMMERSVILLE, KY	03307400	45.70	1974-78				E	
			1980-81					
S FK LITTLE BARREN R AT EDMONTON, KY	03307500	18.30	1941-72*	E	E	E		
S FK LITTLE BARREN R AT SULPHUR WELL, KY	03307600	79.60	1975-81				E	
PRICES CR NR GRADYVILLE, KY	03307670	2.53	1976-86			E		
E FK LITTLE BARREN R NR SULPHUR WELL, KY	03307730	87.40	1975-81				E	
LITTLE BARREN R NR MONROE, KY	03307800	244.00	1960-76				E	
ECHO R OUTLET AT MAMMOTH CAVE, KY	03308950		1953-74				E	
GREEN R AT MAMMOTH CAVE, KY	03309000	1983.00	1938-50	E	E	E		
WET PRONG BUFFALO CR NR MAMMOTH CAVE, KY	03309100	2.26	1962-74				E	
MCDOUGAL CR NR HODGENVILLE, KY	03309500	5.34	1953-71*	E	E	E	E	
N FK NOLIN R AT HODGENVILLE, KY	03310000	36.40	1941-73*	E	E	E		
S FK NOLIN R AT MATHERS MILL, KY	03310078	49.60	1974-78				E	
NOLIN R NR GLENDALE, KY	03310160	185.00	1972-73				E	
VALLEY CR NR GLENDALE, KY	03310270	90.10	1973-81				E	
BACON CR AT HIGHWAY 31W AT BONNIEVILLE, KY	03310380	53.50	1974-81				E	
BACON CR TRIB NR UPTON, KY	03310385	.56	1975-90			E		
BACON CR NR PRICEVILLE, KY	03310400	85.4	1959-94	E	E	E	E	
NOLIN R AT WAX, KY	03310500	600.00	1935-62*	E	E	E		
DOG CR NR MAMMOTH CAVE, KY	03310600	8.12	1961-74				E	
BRIER CR TRIB NR OLLIE, KY	03310880	.31	1976-86			E		
BYLEW CR NR MAMMOTH CAVE, KY	03311100	5.16	1961-74				E	
GREEN R AT LOCK 6 AT BROWNSVILLE, KY	03311500	2762	1925-31	E		E	E	
			1936-92					

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

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BEAVERDAM CR NR RHODA, KY	03311600	10.9	1961-72				E	
			1972-94	E	E	E	E	
BEAR CR NR LEITCHFIELD, KY	03312000	30.80	1950-71*	E	E	E		
BEAR CR NR ROUNDHILL, KY	03312100	137.00	1953-72				E	
BARREN R NR PAGEVILLE, KY	03312500	531.00	1939-63	E	E	E		
LITTLE BEAVER CR NR GLASGOW, KY	03312795	.89	1976-86			E		
BARREN R NR FINNEY, KY	03313000	942	1941-50	E	E	E	E	
			1960-94	E	E	E	E	
SOLOMON CR TRIB NR SCOTTSVILLE, KY	03313020	.24	1976-90			E		
W BAYS FK AT SCOTTSVILLE, KY	03313500	7.47	1951-72		E	E		
LICK CR NR FRANKLIN, KY	03313800	21.60	1959-83			E		
TRAMMEL CR NR SCOTTSVILLE, KY	03313900	93.40	1953-72				E	
DRAKES CR NR ALVATON, KY	03314000	478.00	1940-71	E	C	E	E	
BARREN R AT BOWLING GREEN, KY	03314500	1,849	1938-94	E	E	E	E	
LOST R BLUE HOLE NR BOWLING GREEN, KY	03314670		1985-86	E	E	E	E	
LOST R RISE AT LAMPKIN PK AT BOWLING GREEN, KY	03314675		1985-86	E	E	E	E	
BARREN R TRIB NR BOWLING GREEN, KY	03314750	.50	1976-90			E		
BARREN R AT LOCK 1 AT GREENCASTLE, KY	03315000	1968.00	1923-37	E	E	E		
GASPER R NR RICHELIEU, KY	03315265		1972-77				E	
GREEN R AT WOODBURY, LOCK #4, KY	03315500	5404.00	1936-92	E		E	E	
GASPER R AT HADLEY, KY	03315300	190.00	1953-72				E	
MUDDY CR AT DUNBAR, KY	03315810	94.30	1953-74				E	
POINDEXTER BR TRIB NR RUSSELLVILLE, KY	03315885	.25	1976-86			E		
MUD R NR LEWISBURG, KY	03316000	90.50	1940-72*	E	E	E		
WOLFLICK CR NR LEWISBURG, KY	03316200	116.00	1953-72				E	
MUD RIVER NR HUNTSVILLE, KY	03316275	268.00	1991-94	E	E	E	E	
GREEN R NR PARADISE, KY	03316500	6182.00	1940-81		E			
			1961-81					
MUD R NR HUNTSVILLE, KY	03316275	268	1974-80				E	
			1991-94	E	E	E	E	
ROUGH R NR MADRID, KY	03317000	225.00	1936-59	E	E	E		
N FK ROUGH T NR WESTVIEW, KY	03317500	42.00	1954-73*	E	E	E		
LONG LICK CR TRIB NR AXTEL, KY	03317965	.38	1975-86			E		
ROUGH R NR FALLS OF ROUGH, KY	03318000	454.00	1940-51		E			
ROCK LICK CR NR GLEN DEAN, KY	03318200	20.10	1957-71*	E	E		E	
ROUGH R AT FALLS OF ROUGH, KY	03318500	504	1939-94	E	E	E	E	
PLEASANT RUN TRIB NR FALLS OF ROUGH, KY	03318505	.22	1975-90			E		
CANEY CR NR HORSE BRANCH, KY	03318800	124	1956-92	E	E	E	E	
ROUGH R NR DUNDEE, KY	03319000	757	1939-92	E		E	E	
W FK ADAMS FK NR FORDSVILLE, KY	03319520	.26	1976-86			E		
ROUGH RIVER AT HARTFORD, KY	03319600	880.00	1991-94	E	E	E	E	
POND R NR WHITE PLAINS, KY	03321000	343.00	1927-40	E	E	E		
CYPRESS CR NR CALHOUN, KY	03321210	142	1979-81	E	E			
			1990-94	E	E	E	E	
CYPRESS CR NR RUMSEY, KY	03321215	149.00	1972-76				E	
E FK DEER CR TRIB NR ONTON, KY	03321275	.95	1976-86			E		
S FK PANTHER CR NR WHITESVILLE, KY	03321350	58.20	1968-83		E			
S FK PANTHER CR NR MASONVILLE, KY	03321370	109.00	1954-72				E	
N FK PANTHER CR NR MASONVILLE, KY	03321410	88.30	1954-72				E	
RHODES CR TRIB NR OWENSBORO, KY	03321465	.29	1975-86			E		
GREEN R AT LOCK AND DAM 1 AT SPOTTSVILLE, KY	03321500	9181.00	1928-31		E			
OHIO R AT MOUNT VERNON, KY	03322250		1977-80		E			
HIGHLAND CR NR WAVERLY, KY	03322350	62.30	1975-77				E	
BEAVERDAM CREEK NR CORYDON, KY	03322360	14.3	1972-94	E	E	E	E	
HIGHLAND CR NR UNIONTOWN, KY	03322400	166.00	1953-77				E	
OHIO R UNIONTOWN DAM	03322420	108000.00	1985-93	E	E	E	E	
WARD CR AT LEWISTOWN, KY	03382975	.91	1975-86			E		
TRADEWATER R NR DALTON, KY	03383500	283.00	1927-40		E	E		
W FK DONALDSON CR NR FREDONIA, KY	03383605	2.52	1975-86			E		
CLEAR CR NR RICHLAND, KY	03383755	17.0	1966-80				E	
			1991-94		E			
ROSE CR AT NEBO, KY	03384000	2.10	1952-70*	E	E	E		
TRADEWATER R	03384180	861	1975-80					E
			1980-81	E	E			
OHIO R AT DAM 51 AT GOLCONDA, IL	03384500	143900.00	1941-52		C			
POOR FK AT HARLAN, KY	03400000	51.70	1940-43		E			
POOR FK AT CUMBERLAND, KY	03400500	82.3	1940-92	E		C	E	

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POOR FK AT ROSSPOINT, KY	03400585	142.00	1972-77				E	
CLOVER FK AT EVARTS, KY	03400700	82.40	1959-87, 90			E		
MARTINS FK ABOVE SMITH, KY	03400785	23.80	1985-90*	E	E	E	E	
CRANE CR NR SMITH, KY	03400796	1.63	1976-77		E			
MARTINS FK AT HARLAN, KY	03400985	116.00	1960					E
CLOVER FK AT HARLAN, KY	03400990	222	1977-92	E	E	E	E	
PEARL BR AT WALLINS CR, KY	03401040	1.40	1976-85			E		
LITTLE YELLOW CR AT MIDDLESBORO, KY	03401400	10.80	1959-66					E
BENNETTS FORK AT MIDDLESBORO, KY	03401428	60.6	1985-94	E	E	E	E	
YELLOW CR BYPASS AT MIDDLESBORO, KY	03401500	35.30	1941-83			E		
SHILALAN CR NR PAGE, KY	03402020	2.96	1976-86			E		
YELLOW CR NR FERNDALE, KY	03402230	99.50	1972-81				E	
CLEAR CR AT CLEAR CR SPRINGS, KY	03402480	38.50	1975-81				E	
CUMBERLAND R AT PINEVILLE, KY	03402500	676.00	1928-31		E			
LEFT FK STRAIGHT CR AT CARY, KY	03402850	33.70	1958-76				E	
STRAIGHT CR AT STRAIGHT CR, KY	03402852	89.80	1953-67				E	
CUMBERLAND RIVER NR PINEVILLE, KY	03403000	809.00	1938-92	E	E	E	E	
STINKING CR AT DEWITT, KY	03403180	49.10	1961-75				E	
ROAD E CR AT DEWITT, KY	03403255	25.20	1961-75				E	
RICHLAND CR NR BARBOURVILLE, KY	03403530	27.70	1961-76				E	
LITTLE RICHLAND CR NR HINKLE, KY	03403538	11.60	1974-83			E		
CLEAR FK AT SAXTON, KY	03403910	331.00	1968-90*	E	E	E	E	
JELLICO CR NR WILLIAMSBURG, KY	03404200	103.00	1953-72				E	
MARSH CR NR WHITELY CITY, KY	03404390	72.00	1960-61				E	
			1974-81					
CUMBERLAND R AT CUMBERLAND FALLS, KY	03404500	1,977	1907-11	E	E			
			1914-94	E	E	E	E	
LAUREL R NR LILY, KY	03404688	52.30	1974-81				E	
LITTLE LAUREL R NR LILY, KY	03404810	42.40	1975-81				E	
LAUREL R AT MUNICIPAL DAM NR CORBIN, KY	03404820	140	1973-92	E		C	E	
GOZEY HOLLOW NR CORBIN, KY	03404867	.31	1976-85			E		
LAUREL R AT CORBIN, KY	03405000	201.00	1910-73	E	E	E		
LAUREL R NR VOX, KY	03405500	245.00	1929-31		E			
S FK ROCKCASTLE R NR PEOPLES, KY	03405700	95.10	1961-72				E	
MIDDLE FK ROCKCASTLE R NR PARROT, KY	03405818	79.00	1975-81				E	
HORSE LICK CR NR LAMERO, KY	03405842	61.70	1975-81				E	
BIG HURRICANE BR AT CONWAY, KY	03405854	1.91	1976-85			E		
ROUNDSTONE CR AT HOMMEL, KY	03405868	52.90	1975-81				E	
ROUNDSTONE CR AT LIVINGSTON, KY	03405900	144.00	1953-76				E	
WOOD CR NR LONDON, KY	03406000	3.89	1954-71*	E	E		E	
			1972-87, 90			E		
SKEGG CR NR BILLOWS, KY	03406330	55.90	1975-81				E	
ROCKCASTLE R AT ROCKCASTLE SPRINGS, KY	03407000	745.00	1921-31	E	E	E		
CANE BR NR PARKERS LAKE, KY	03407100	.67	1956-87		E	E		
W FK CANE BR NR PARKERS LAKE, KY	03407200	.26	1956-86			E		
HELTON BR AT GREENWOOD, KY	03407300	.85	1956-74		E	E		
BUCK CR NR WOODSTOCK, KY	03407425	73.00	1975-81				E	
BUCK CR NR SHOPVILLE, KY	03407500	165.00	1952-91	E	E	E	E	
BUCK CR AT DYKES, KY	03407640	253.00	1972-81				E	
ROCK CR NR YAMACRAW, KY	03410590	58.90	1965				E	
			1975-81					
LITTLE S FK CUMBERLAND R NR GRIFFIN, KY	03410825	56.40	1975-81				E	
LITTLE S FK CUMBERLAND R NR OIL VALLEY, KY	03410900	98.20	1953-72				E	
S FK CUMBERLAND R AT NEVELSVILLE, KY	03411000	1271.00	1915-50		E	E		
CUMBERLAND R AT BURNSIDE, KY	03411500	4865.00	1925-50		E	E		
LAKE CUMBERLAND AT BURNSIDE, KY	03411700	4869.00	1951-70					
PITMAN CR NR SOMERSET, KY	03412000	26.30	1949-53		E			
PITMAN CR AT SOMERSET, KY	03412500	31.30	1953-72*	E	E	E		
FISHING CR NR HOGUE, KY	03412700	59.80	1968-77				E	
CUMBERLAND R NR JAMESTOWN, KY	03413000	5331.00	1937-40		E			
BEAVER CR NR MONTICELLO, KY	03413200	43.40	1968-83		E			
ELK SPRING CR NR SPANN, KY	03413202	0.57	1976-87, 90			E		
OTTER CR NR SUSIE, KY	03413345	67.10	1953-66				E	
WILLIAMS CR TRIB NR CARTWRIGHT, KY	03413425	.76	1976-86			E		
CUMBERLAND R NR ROWENA, KY	03414000	5790	1939-92	E	E	E	E	
CROCUS CR NR BAKERTON, KY	03414080	108.00	1972-76				E	
BEAR CR NR BURKESVILLE, KY	03414102	3.52	1976-87, 90			E		

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

STATION NAME AND LOCATION	STATION NUMBER	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	COMPLETE FLOW	COM-PLETE STAGE	PEAK FLOW	LOW FLOW	MISC FLOW MEAS
MARROWBONE CR AT GRIDER, KY	03414175	80.70	1975-81				E	
RED R NR ADAIRVILLE, KY	03435100	229.00	1957-72				E	
WHIPPOORILL CR NR CLAYMOUR, KY	03435140	20.80	1973-91	E	E	E	E	
ELBOW CR TRIB NR CANTON, KY	03437380	.83	1975-86			E		
LICK CR NR CANTON, KY	03437390	.39	1977-86			E		
S FK LITTLE R TRIB NR HOPKINSVILLE, KY	03437490	2.62	1977-87, 90			E		
S FK LITTLE R AT HOPKINSVILLE, KY	03437500	46.50	1950-73*	E	E	E		
WHITE CR TR NR HOPKINSVILLE, KY	03437610	.19	1975-76		E			
MUDDY R NR DERULEAN, KY	03438070	30.50	1968-83		E			
N FK DRYDEN CR TRIB NR CONFEDERATE, KY	03438120	.10	1975-90			E		
DRY CR NR LAMASCO, KY	03438167	34.60	1968-72			E	E	
EDDY CR NR LAMASCO, KY	03438170	71.70	1968-74				E	
BARKLEY-KENTUCKY CANAL NR GRAND RIVERS, KY	03438190		1966-97	E	E	E	E	
KENTUCKY-BARKLEY CANAL NR GRAND RS, KY	03438191		1971-74		E			
CUMBERLAND R AT EUREKA, KY	03438200	17594.00	1939-64		E			
CUMBERLAND RIVER NR GRAND RIVERS	03438220	17598.00	1939-97	E	E	E	E	
LIVINGSTON CR NR DYCUSBURG, KY	03438470	112.00	1954-74				E	
TENNESSEE R AT SHANNON DAM SITE NR MURRAY, KY	03608000	39780.00	1931-37		E			
TENNESSEE R AT AURORA LANDING, KY	03608500	40010.00	1930-32		E			
TENNESSEE R NR PADUCAH, KY	03609500	40200.00	1941-89	E		E		
CLARKS R AT MURRAY, KY	03610000	89.70	1952-71*	E	E	E		
YORK CR NR BENTON, KY	03610470	.96	1975-90			E		
CLARKS R NR BENTON, KY	03610500	227.00	1938-73*	E	E	E		
CHESTNUT CR NR BENTON, KY	03610503	.82	1975-86			E		
WEST FK CLARKS R NR BREWERS, KY	03610545	68.7	1968-83	E	E	E	E	
			1988-94	E	E	E	E	
CLARKS R TRIB NR REIDLAND, KY	03610820	.13	1975-86			E		
OHIO R AT PADUCAH, KY	03611000	202800.00	1873-75		C			
LITTLE BAYOU CR NR GRAHAMVILLE, KY	03611600	5.78	1990-91	E	E	E	E	
BAYOU CR NR HEATH, KY	03611800	6.55	1990-91	E	E	E	E	
BAYOU CR NR GRAHAMVILLE, KY	03611850	14.90	1990-91	E	E	E	E	
HUMPHREY CR AT LACENTER, KY	03613000	44.20	1953-72				E	
PERRY CR NR MAYFIELD, KY	07022500	1.72	1953-65*	E	E		E	
			1968-72					
			1973-90			E		
LICK CR TRIB NR KERBYTON, KY	07023040	.53	1975-90			E		
MAYFIELD CR NR BLANDVILLE, KY	07023100	295	1938-72					
			1991-94		E			
MAYFIELD CR AT MAYFIELD, KY	07022600	95.10	1954-72				E	
MAYFIELD CR AT LOVELACEVILLE, KY	07023000	204.00	1938-72*	E	E	E		
MISSISSIPPI R AT COLUMBUS, KY	07023200	921900.00	1843-58			E		
OBION CR AT PRYORSBURG, KY	07023500	36.30	1951-73	E	E	E		
OBION CR NR ARLINGTON, KY	07023700	203.00	1953-72				E	
S FK BAYOU de CHIEN TRIB AT WATER VALLEY, KY	07023935	.23	1975-90			E		
MISSISSIPPI R AT HICKMAN, KY	07024070	922500.00	1926-58			E		

* Period of complete flow only
C Currently operated
E Eliminated

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

STATION NAME AND NUMBER	STATION NUMBER	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	BIO. ACTIVE STATUS	PHY. ACTIVE STATUS	SED. ACTIVE STATUS	CHEMICAL ACTIVE STATUS
BRUSHY FK AT THOMAS, KY	03201400		1980-82		N	N	N
CARD CR AT MOUTHCARD, KY	03207845	4.18	1974-80		N	N	N
FEDS CR AT FEDS CREEK, KY	03207875	11.60	1972-75		N	N	N
BIG CR AT DUNLAP, KY	03207905	9.55	1974-76		N	N	N
ELKFOOT BRANCH NR NIGH, KY	03207915	.70	1980-84			N	
ISLAND CR NR PHYLLIS, KY	03207925	2.42	1974-80		N	N	N
LICK CR AT LICK CREEK, KY	03207935	6.70	1972-76		N	N	N
MILLERS CR NR PHYLLIS, KY	03207940	1.68	1973-81		N	N	N
DICKS FK AT PHYLLIS, KY	03207962	.82	1975-79			N	
			1982-84			N	
LEVISA FK BELOW FISHTRAP DAM, KY	03208000	392.00	1965-79		N	N	N
RUSSELL FK AT ELKHORN CITY, KY	03209300	554.00	1961-83		N	N	N
ELKHORN CR NR ELKHORN CITY, KY	03209402		1980-82		N	N	N
MARROWBONE CR AT WOLFPIT, KY	03209420		1980-82		N	N	N
GREASY CR NR SUTTON, KY	03209430		1980-82		N	N	N
DORTON CR NR DORTON, KY	03209438		1980-82		N	N	N
LONG FK NR VIRGIE, KY	03209453		1980-82		N	N	N
ROBINSON CR AT ROBINSON CREEK, KY	03209457		1980-82		N	N	N
SHELBY CR AT SHELBIANA, KY	03209460	112.00	1965-79		N	N	N
MUD CR NR GRETHEL, KY	03209530		1980-82		N	N	N
TOLLAR CR NR HAROLD, KY	03209540		1980-82		N	N	N
MUD CR AT HAROLD, KY	03209545	51.90	1978-80		N	N	N
RIGHT FK BEAVER CR AT TOPMOST, KY	03209585		1980-82		N	N	N
CANEY FK BEAVER CR NR RAVEN, KY	03209590		1980-82		N	N	N
RIGHT FK BEAVER CR AT WAYLAND, KY	03209600	73.90	1978-80		N		N
JONES FK AT BETTY, KY	03209603		1980-82		N	N	N
SALTLICK CR NR BOSCO, KY	03209607		1980-82		N	N	N
LEFT FK BEAVER CR AT DRIFT, KY	03209650	58.50	1978-80		N		N
LEFT FK BEAVER CR AT PRINTER, KY	03209680		1980-82		N	N	N
BEAVER CR AT MARTIN, KY	03209700	228.00	1961-71		N		N
LEVISA FK AT PRESTONSBURG, KY	03209800	1702.00	1976-79		N	N	N
MIDDLE CR NR PRESTONSBURG, KY	03209850		1980-82		N	N	N
LEFT FK MIDDLE CR NR GOODLOE, KY	03209870		1980-82		N	N	N
MIDDLE CR NR PRESTONBURG, KY	03209890	62.10	1978-80		N	N	N
ABBOTT CR NR PRESTONSBURG, KY	03209910		1980-82		N	N	N
RACCOON CR NR ZEBULON, KY	03210040	14.80	1973-80		N	N	N
RACKOON CR NR ZEBULLON, KY	03210060		1980-82		N	N	N
CANEY FK NR GULNARE, KY	03210160	3.74	1973-80		N	N	N
BRUSHY FK AT HEENON, KY	03210310	20.40	1973-76		N	N	N
BUFFALO CR NR ENDICOTT, KY	03210420	6.21	1973-80		N	N	N
BUFFALO CR NR GERMAN, KY	03210450		1980-82		N	N	N
DANIELS CR NR ODDS, KY	03211690		1980-82		N	N	N
DANIELS CR AT MOUTH NR VAN LEAR, KY	03211700	12.00	1978-80		N		N
LEVISA FK ABOVE PAINT CR AT PAINTSVILLE, KY	03211800	1975.00	1974-79		N		N
PAINT CR NR ELNA, KY	03211970	79.30	1967		N		N
PAINT CR ABOVE BARNETTS CR NR STAFFORDSVILLE, KY	03211997		1971-72		N		N
GREASY CR NR OFFUTT, KY	03212510		1980-82		N	N	N
TOMS CR NR TUTOR KEY, KY	03212520		1980-82		N	N	N
GEORGES CR NR ULYSSES, KY	03212530		1980-82		N	N	N
RIGHT FK CR NR CHARLEY, KY	03212535		1980-82		N	N	N
RIGHT FK HURRICANE CR NR STOPOVER, KY	03213630	.82	1980-84			N	
LEFT FK PETER CR AT JAMBOREE, KY	03213670		1980-82		N	N	N
RIGHT FK PETER CR NR PHELPS, KY	03213680		1980-82		N	N	N
BLACKBERRY CR AT RANSOM, KY	03213690		1980-82		N	N	N
POND CR NR TOLER, KY	03213698		1980-82		N	N	N
BIG CR NR HATFIELD, KY	03213750		1980-82		N	N	N
WOLF CR NR MCCLURE, KY	03214300		1980-82		N	N	N
MIDDLE FK ROCKCASTLE CR AT INEZ, KY	03214600	33.34	1980-82		N	N	N
COLDWATER FK NR INEZ, KY	03214650	17.85	1980-82		N	N	N
ROCKCASTLE CR AT INEZ, KY	03214700	63.10	1970-72	N	N	N	N
ROCKHOUSE FK NR MILO, KY	03214720		1980-82		N	N	N
ROCKCASTLE CR AT CLIFFORD, KY	03214730	121.00	1965-75		N		N

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

STATION NAME AND NUMBER	STATION NUMBER	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	BIO. ACTIVE STATUS	PHY. ACTIVE STATUS	SED. ACTIVE STATUS	CHEMICAL ACTIVE STATUS
BIG SANDY R AT LOUISA, KY	03215000	3897	1950, 1966-72, 1974-92	N	N	N	N
LEFT FK BLAINE CR NR MARTHA, KY	03215250		1980-82		N	N	N
LOWER LAUREL CR NR FLATGAP, KY	03215320		1967		N		N
CAINES CR NR BLAINE, KY	03215367		1980-82		N	N	N
BLAINE CR AT HWY 32 BR AT BLAINE, KY	03215370	73.80	1978-80		N		N
HOOD CR AT BLAINE, KY	03215380		1980-82		N	N	N
BRUSHY CR NR CORDELL, KY	03215420		1980-82		N	N	N
BLAINE CR BELOW BRUSHY CR NR BLAINE, KY	03215430	151.00	1971-80		N		N
RICH CR NR ADAMS, KY	03215440		1971-72		N		N
LITTLE BLAINE CR NR EVERGREEN, KY	03215470		1980-82		N	N	N
LITTLE BLAINE CR AT EVERGREEN, KY	03215480	23.00	1971-80		N		N
BLAINE CR NR YATESVILLE, KY	03215490	206.00	1971-72		N		N
BLAINE CR AT YATESVILLE, KY	03215500	217.00	1965-79		Y		N
CAT FK CR AT FALLSBURG, KY	03215550		1980-82		N	N	N
BIG SANDY R AT CATLETTSBURG, KY	03215700	4281.00	1955-75		N		N
LITTLE SANDY R AT SANDY HOOK, KY	03216180		1980-82		N	N	N
BIG CANEY CR NR STARK, KY	03216230		1980-82		N	N	N
LITTLE SANDY R BELOW GRAYSON DAM NR LEON, KY	03216350	196.00	1966-79		N		N
BIG SINKING CR NR ADEN, KY	03216370		1980-82		N	N	N
LITTLE SANDY R AT LEON, KY	03216400	255.00	1978-80		N		
LITTLE SANDY R AT DOBBINS, KY	03216430		1980-82		N	N	N
DRY FK AT WILLARD, KY	03216450		1980-82		N	N	N
LITTLE FK LITTLE SANDY R NR GRAYSON, KY	03216480	132.00	1973-75		N		N
BERET CR NR GRAYSON, KY	03216520		1980-82		N	N	N
E FK LITTLE SANDY R NR FALLSBURG, KY	03216540	12.20	1978-83		N		
E FK LITTLE SANDY R NR CANNONSBURG, KY	03216558		1980-82		N	N	N
WILLIAMS CR AT PRINCESS, KY	03216567		1980-82		N	N	N
E FK LITTLE SANDY R NR ARGILLITE, KY	03216570	138.00	1970-72		N		N
OHIO R AT GREENUP DAM, KY	03216600	62000.00	1974-86	N	N	N	N
SOLDIER FK AT LAWTON, KY	03216770		1971-72		N		N
TYGARTS CR AT IRON HILL, KY	03216930		1971-72		N		N
BUFFALO CR NR GESLING, KY	03216960		1980-82		N	N	N
KINNICONICK CR NR RUGLESS, KY	03237230	109.00	1970-72		N		N
OHIO R AT MELDAHL DAM NR CHILO, OH	03238680	70800.00	1967-70		N		N
OHIO R AT RAW WATER INTAKE, CINCINNATI, OH	03238800		1970				N
LICKING R NR FREDVILLE, KY	03248165		1980-82		N	N	N
BURNING FK AT SAYLERSVILLE, KY	03248380		1980-82		N	N	N
LEFT FK NR HENDRICKS, KY	03248520		1980-82		N	N	N
RIGHT FK AT FRITZ, KY	03248530		1980-82		N	N	N
JOHNSON CR AT KERNIE, KY	03248560		1980-82		N	N	N
LICK CR NR BLOOMINGTON, KY	03248580		1980-82		N	N	N
WHITE OAK CR AT WHITE OAK, KY	03248610		1980-82		N	N	N
WILLIAMS CR NR ELAMTON, KY	03248670		1980-82		N	N	N
ELK FK NR LENOX, KY	03248685	59.40	1980-82		N	N	N
CANEY CR NR CANEY, KY	03248710		1980-82		N	N	N
GRASSY CR AT GRASSY CREEK, KY	03248750		1980-82		N	N	N
LICKING R AT FARMERS, KY	03249500	827.00	1948-79		N	N	N
TRIPLETT CR AT MOREHEAD, KY	03250000	47.50	1978-80		N		
SLATE CR NR OWINGSVILLE, KY	03250240	185.00	1970-71		N		N
ROCK LICK CR NR SHARKEY, KY	03250320	4.01	1978-83		N		
LICKING R AT SHERBURNE, KY	03250400		1981-83	N	N	N	N
N FK LICKING R NR MILFORD, KY	03251400	286.00	1970-72		N		N
LICKING R AT MCKINNEYSBURG, KY	03251500	2326.00	1951-79		N	N	N
STONER CR NR MIDDLETOWN, KY	03251665	51.60	1974		N		N
HINKSTON CR NR SHARPSBURG, KY	03252190	78.90	1973		N		N
HINKSTON CR NR CARLISLE, KY	03252300	154.00	1970-74		N		N
S FK LICKING R AT CYNTHIANA, KY	03252500	621.00	1949-83	N	N	N	N
LICKING R AT CATAWBA, KY	03253500	3300.00	1962-79		N		N
LICKING R AT BUTLER, KY	03254000	3375.00	1950, 1975-94	N	N	N	N
OHIO R AT MARKLAND DAM, KY	03277200	83170.00	1960-70	N	N	N	N

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

STATION NAME AND NUMBER	STATION NUMBER	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	BIO. ACTIVE STATUS	PHY. ACTIVE STATUS	SED. ACTIVE STATUS	CHEMICAL ACTIVE STATUS
			1974-86	N	N	N	N
OHIO R AT LOCK AND DAM 39 NR FLORENCE, KY	03277205	82910.00	1953-75		N		
YONTS CR NR NEON, KY	03277260		1980-82		N	N	N
N FK KENTUCKY R AT WHITESBURG, KY	03277300	66.40	1970-75		N		N
KINGS CR NR ROXANA, KY	03277320		1980-82		N	N	N
N FK KENTUCKY R AT BLACKEY, KY	03277340	131.00	1971-75		N		N
ROCKHOUSE CR NR FLETCHER, KY	03277361		1980-82		N	N	N
ROCKHOUSE CR AT LETCHER, KY	03277362		1971		N		N
LINE FK AT DEFEATED CREEK, KY	03277370	40.80	1980-82		N	N	N
LINE FK AT ULVAH, KY	03277380		1971		N		N
N FK KENTUCKY R AT CORNETTSVILLE, KY	03277411	322.00	1970-72		N		N
RIGHT FK MACYS CR NR FARLAR, KY	03277415		1980-82		N	N	N
YELLOW CR AT SASSAFRAS, KY	03277455		1965-75		N		N
CARR FK NR HAZARD, KY	03277480		1971		N		N
LOTTS CR NR DARFORK, KY	03277515		1980-82		N	N	N
BIG CR NR AVAWAN, KY	03277580		1980-82		N	N	N
GRAPEVINE CR NR LAMONT, KY	03277700		1980-82		N	N	N
TROUBLESOME CR NR ARY, KY	03277800		1980-82		N	N	N
BALLS FK NR TALCUM, KY	03277900		1980-82		N	N	N
BUCKHORN CR NR NOBLE, KY	03278100		1980-82		N	N	N
LOST CR NR LOST CREEK, KY	03279150		1980-82		N	N	N
LAUREL FK NR ELMROCK, KY	03279250		1980-82		N	N	N
MIDDLE FK QUICKSAND CR NR DECOY, KY	03279300		1980-82		N	N	N
HAWLS FK NR TIPTOP, KY	03279370		1980-82		N	N	N
QUICKSAND CR AT LUNAH, KY	03279400	101.00	1970-72		N		N
CANEY CR NR CAMP LEWIS, KY	03279430		1980-82		N	N	N
HUNTING CR NR ROUSSEAU, KY	03279460		1980-82		N	N	N
S FK QUICKSAND CR AT PORTSMOUTH, KY	03279650		1980-82		N	N	N
QUICKSAND CR AT QUICKSAND, KY	03279700	203.00	1965-75		N		N
N FK KENTUCKY R AT JACKSON, KY	03280000	1101.00	1948-75	N	N	N	N
			1979-81				
			1987-91				
CANE CR NR JACKSON, KY	03280100		1980-82		N	N	N
ROCKHOUSE CR NR HYDEN, KY	03280360		1980-82		N	N	N
FROZEN CR NR TAULBEE, KY	03280400		1980-82		N	N	N
BOONE FK NR VANCLEAVE, KY	03280450		1980-82		N	N	N
MIDDLE FK KENTUCKY R NR WARBRANCH, KY	03280520		1980-82		N	N	N
MIDDLE FK KENTUCKY R AT ASHER, KY	03280530		1971		N		N
BEECH FK NR HELTON, KY	03280540		1980-82		N	N	N
BEECH FK AT ASHER, KY	03280550	33.90	1971		N		N
GREASY CR NR NAPIER, KY	03280560		1980-82		N	N	N
LAUREL FK NR LEWIS CREEK, KY	03280575		1980-82		N	N	N
GREASY CR AT HOSKINSTON, KY	03280590	95.00	1971		N		N
MIDDLE FK KENTUCKY R NR HAYDEN, KY	03280600	202.00	1975-82	N	N	N	N
			1988		N		N
CUTSHIN CR NR CINDA, KY	03280670		1980-82		N	N	N
HELL FOR CERTAIN CR NR KALIOPI, KY	03280750		1980-82		N	N	N
TURKEY CR NR TURKEY, KY	03280950		1980-82		N	N	N
MIDDLE FK KENTUCKY R AT TALLEGA, KY	03281000	537.00	1950-75	N	N	N	N
			1978-83				
			1987-90				
RED BIRD R AT BIG CREEK, KY	03281030	125.00	1970-72		N		N
BIG CR NR BIG CREEK, KY	03281035		1980-82		N	N	N
HECTOR BRANCH NR ERILINE, KY	03281045		1980-82		N	N	N
GOOSE CR NR GOOSEROCK, KY	03281065	49.60	1979-82		N	N	N
COLLINS FK NR BLUEHOLE, KY	03281075		1980-82		N	N	N
HORSE CR NR HIMA, KY	03281097		1980-82		N	N	N
LITTLE GOOSE CR NR MANCHESTER, KY	03281133		1980-82		N	N	N
BULLSKIN CR NR BRUTUS, KY	03281175		1980-82		N	N	N
S FK KENTUCKY R AT ONEIDA, KY	03281200	486.00	1970-72		N		N
SEXTON CR NR CHESTNUTBURG, KY	03281340		1980-82		N	N	N
LOWER ALLEN CR NR CONKLING, KY	03281360		1980-82		N	N	N
S FK KENTUCKY R AT BOONEVILLE, KY	03281500	722.00	1950-75	N	N	N	N

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

STATION NAME AND NUMBER	STATION NUMBER	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	BIO. AC-TIVE STA-TUS	PHY. AC-TIVE STA-TUS	SED. AC-TIVE STA-TUS	CHEM-ICAL AC-TIVE STA-TUS
			1979-83				
			1987-90				
BIG SINKING CR NR CRYSTAL, KY	03282075	23.40	1987-89		N	N	N
FURNACE FK NR CRYSTAL, KY	03282100	9.94	1987-89		N	N	N
STATION CAMP CR AT WAGERSVILLE, KY	03282170	115.00	1970-72		N		N
KENTUCKY R NR TRAPP, KY	03282300		1982-83		N	N	N
RED R AT DAYSBORO, KY	03282400		1980-82		N	N	N
RED R NR PINE RIDGE, KY	03283100	142.00	1968-76		N		N
CAT CR NR STANTON, KY	03283370	8.30	1987-89		N	N	N
KENTUCKY R AT LOCK 10 NR WINCHESTER, KY	03284000	3955.00	1987-91	N	N	N	N
BAUGHMAN FK AT GENTRY ROAD NR ATHENS, KY	03284090	7.18	1967-68		N		N
BOONE CR AT GRIMES MILL RD NR LOCUST GROVE, KY	03284100	41.80	1967-68		N		N
KENTUCKY R NR LEXINGTON, KY	03284105		1970				N
SILVER CR NR KINGSTON, KY	03284300	28.60	1978-83		N		
SILVER CR NR RICHMOND, KY	03284350		1973-75		N		N
PAINT LICK CR NR MCCREARY, KY	03284450	97.60	1970-72		N		N
KENTUCKY R AT LOCK 8 NR CAMP NELSON, KY	03284500	4414.00	1948-75		N		N
DIX R NR STANFORD, KY	03284800	160.00	1973-75		N		N
HANGING F CR NR STANFORD, KY	03284935	46.90	1974		N		N
DIX R NR DANVILLE, KY	03285000	318.00	1988		N		N
DIX R AT DIX DAM NR BURGIN, KY	03286200	439.00	1961-79		N		N
KENTUCKY R AT LOCK 4 AT FRANKFORT, KY	03287500	5411.00	1949-73	N	N	N	N
			1987-90				
BENSON CR AT FRANKFORT, KY	03287530	71.20	1973		N		N
BENSON CR NR FRANKFORT, KY	03287550	107.00	1970-72		N		N
N ELKHORN CR AT BRYAN STATION RD AT MONTROSE, KY	03287600	21.50	1967-68		N		N
N ELKHORN CR UNNAMED TR AT MUIR STA RD NR MUI, KY	03287620	15.80	1967-68		N		N
N ELKHORN CR AT HUFFMAN MILL RD NR MATTOXTOWN, KY	03287700	62.70	1967-68		N		N
GOOSE CR AT MT HOREB RD NR NEWTOWN, KY	03287800	14.20	1967-68		N		N
GOOSE CR AT NEWTOWN RD, NR NEW ZION, KY	03287810		1967		N		N
N ELKHORN CR NR GEORGETOWN, KY	03288000	119.00	1988-89		N		N
CANE RUN AT BEREA ROAD NR DONERAIL, KY	03288200	19.90	1967-68		N		N
CANE RUN NR GEORGETOWN, KY	03288260	45.40	1973		N		N
CAVE CR NR FORT SPRING, KY	03288500	2.53	1968		N		N
STEELES RUN AT OLD FRANKFORT RD AT FAYWOOD, KY	03289100	6.67	1967-68		N		N
TOWN BRANCH AT YARNALLTON RD AT YARNALLTON, KY	03289200		1967-68		N		N
ELKHORN CR NR FRANKFORT, KY	03289500	473.00	1987-91	N	N	N	N
SIX MILE NR DEFOE, KY	03290420	42.60	1973		N		N
SIX MILE CR NR LOCKPORT, KY	03290490	76.50	1973-74		N		N
KENTUCKY R AT LOCK #2 AT LOCKPORT, KY	03290500	6180.00	1974-95	N	N	N	N
DRENNON CR AT DRENNON SP, KY	03290675	82.50	1973-74		N		N
EAGLE CR NR HOLBROOK, KY	03291270	258.00	1973-75		N		N
TEN MILE CR NR FOLSOM, KY	03291490	68.40	1973		N		N
EAGLE CR AT GLENCOE, KY	03291500	437.00	1948-79		N	N	N
LITTLE KY R NR BEDFORD, KY	03291700	73.20	1970-72		N		N
HARRODS CR NR SKYLIGHT, KY	03292467	60.30	1974-75		N		N
HARRODS CR NR PROSPECT, KY	03292473	92.1	1988-98		N		N
GOOSE CR AT OLD WESTPORT RD AT ST. MATTHEWS, KY	03292474		1988-98		N		N
GOOSE CR AT U.S. HWY 42 AT GLENVIEW ACRES, KY	03292475	10.1	1988-98		N		N
LITTLE GOOSE CR NR HARRODS CR, KY	03292480	5.8	1988-98		N		N
OHIO R AT WATER SUPPLY INTAKE AT LOUISVILLE, KY	03292494		1970				N
S FK BEARGRASS CR AT LOUISVILLE, KY	03292500	17.2	1988-92,		N		N
			95-98				
S. FK. BEARGRASS CR NR EASTERN PKY AT LOUISVILLE, KY	03292530	21.6	1995-98		N		N
S .FK BEARGRASS CR NR WINTER AVE., KY.	03292550	22.6	1988-98		N		N
MIDDLE FK BEARGRASS CR AT LOUISVILLE, KY	03293000	18.9	1988-92,		N		N
			96-98				
M. FK. BEARGRASS CR NR SCENIC LOOP AT LOUISVILLE, KY	03293200	22.7	1988-98		N		N
M. FK. BEARGRASS CR NR LEXINGTON RD AT LOUISVILLE, KY	03293500	24.4	1996-98		N		N
MUDDY FK. MOCKINGBIRD VALLEY RD AT LOUISVILLE, KY	03293550	6.2	1988-98		N		N
OHIO R AT LOUISVILLE, KY	03294500	91170.00	1968-83		N	N	N
MILL CR CUTOFF NR LOUISVILLE, KY	03294550	24.4	1988-92,		N		N
			98				

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

STATION NAME AND NUMBER	STATION NUMBER	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	BIO. ACTIVE STATUS	PHY. ACTIVE STATUS	SED. ACTIVE STATUS	CHEMICAL ACTIVE STATUS
MILL CR AT ORELL RD NR LOUIVILLE, KY	03294570	13.5	1988-98		N		N
OHIO R AT KOSMOSDALE, KY	03294600	91200.00	1970				N
SALT R NR HARRODSBURG, KY	03295000	41.40	1970-72		N		N
SALT R NR VAN BUREN, KY	03295500	196.00	1970-79		N		N
SALT R AT TAYLORSVILLE, KY	03295610	359.00	1970-72		N		N
BRASHEARS CR NR FINCHVILLE, KY	03295800	147.00	1970-72		N		N
BRASHEARS CR AT TAYLORSVILLE, KY	03295900	262.00	1973-75		N		N
PLUM CR SUBWATER SHED NO 4 NR SIMPSONVILLE, KY	03296000	1.55	1953-64			N	
PLUM CR AT WATERFORD, KY	03297500	31.80	1953-61		N	N	N
COX CR NR HIGHGROVE, KY	03297700	95.80	1970-72		N		N
FLOYDS FK NR CRESTWOOD, KY	03297845	46.70	1979-83	N	N	N	N
LONG RUN NR FISHERVILLE, KY	03297980	22.5	1988-98		N		N
FLOYDS FK AT FISHERVILLE, KY	03298000	138.	1988-98		N		N
POPE LICK AT POPE LICK RD AT MIDDLETOWN, KY	03298100	2.9	1988-98		N		N
CHENOWETH RUN NR RUCKRIEGEL PKY, AT LOUISVILLE, KY	03298135	5.47	1996-98		N		N
CHENOWETH RUN NR GELHAUS LANE, AT FERN CREEK, KY	03298150	11.6	1988-98		N		N
FLOYDS FK NR MOUNT WASHINGTON, KY	03298200	21.3	1988-98		N		N
CEDAR CR AT FAIRMOUNT RD NR MOUNT WASHINGTON, KY	03298242	7.8	1992-98		N		N
CEDAR CREEK AT THIXTON RD NR LOUISVILLE, KY	03298250	11.1	1988-98		N		N
PENNSYLVANIA R AT MT WASHINGTON RD AT LOUISVILLE, KY	03298300	6.4	1988-98		N		N
FLOYDS FK NR GAP IN KNOB, KY	03298390	259.00	1973-75		N		N
SALT R AT SHEPHERDSVILLE, KY	03298500	1197	1948-75	N	N	N	N
			1979-92				
N ROLLING FK AT BRADSFORDVILLE, KY	03298760	95.70	1973-75		N		N
ROLLING FK NR LEBANON, KY	03299000	239.00	1970-80		N		N
BEECH FK NR SPRINGFIELD, KY	03300000	85.90	1970-72		N		N
CHAPLIN R AT SHARPSVILLE, KY	03300300	140.00	1970-72		N		N
BEECH FK AT MAUD, KY	03300400	436.00	1979-83	N	N	N	N
CARTWRIGHT CR AT FREDRICKTOWN, KY	03300498	82.30	1973-75		N		N
BEECH FK AT BARDSTOWN, KY	03301000	669.00	1962-72		N		N
ROLLING FK NR BOSTON, KY	03301500	1299.00	1948-79		N		N
WILSON CR HARRISON FK RD AT DEATSVILLE, KY	03301575	5.7	1990-98		N		N
WILSON CR NR DEATSVILLE, KY	03301580	27.7	1991-92		N		
			1992-96				N
ROLLING FORK NR LEBANON JUNCTION, KY	03301630	1375.00	1975-94	N	N	N	N
SOUTHERN DITCH AT MINORS LN NR OKOLONA, KY	03301880	12.8	1988-98		N		N
FERN CR NR OLD BARDSTOWN RD AT LOUISVILLE, KY	03301900	3.5	1988-98		N		N
NORTHERN DITCH AT OKOLONA, KY	03301940	11.1	1988-98		N		N
SPRING DITCH AT PRIVATE DRIVE NR OKOLONA, KY	03301950	1.6	1988-98		N		N
POND CR NR LOUISVILLE, KY	03302000	64.0	1988-98		N		
POND CR AT PENDLETON RD NR LOUISVILLE, KY	03302030	80.3	1988-98		N		N
SALT R AT MOUTH NR LOUISVILLE, KY	03302060		1970				N
OTTER CR NR VINE GROVE, KY	03302080		1970-71		N		N
OTTER CR AT GRAHAMTON, KY	03302100	88.40	1970-72		N		N
OTTER CR AT OTTER CR PARK NR ROCKHAVEN, KY	03302110	99.2	1993-98		N		N
DOE RUN NR BRANDENBURG STATION, KY	03302150	52.70	1970-72		N		N
SINKING CR NR LODIBURG, KY	03303205	125.00	1971		N		N
SINKING CR AT SAMPLE, KY	03303210	222.00	1970		N		N
BEECH FK NR CLOVERPORT, KY	03303220		1980-82		N	N	N
TAR FK NR CLOVERPORT, KY	03303230		1980-82		N	N	N
OHIO R AT CANNELTON DAM, KY	03303280	97000.00	1975-86	N	N	N	N
BLACKFORD CR NR MACEO, KY	03303447		1980-82		N	N	N
BLACKFORD CR NR MACEO, KY	03303450	111.00	1973-75		N		N
PUP CR NR MACEO, KY	03303490		1980-82		N	N	N
OHIO R AT OWENSBORO, KY	03303500	97200.00	1970				N
GREEN R NR MCKINNEY, KY	03305000	22.40	1970-72		N		N
GREEN R NR DUNNVILLE, KY	03305660	221.00	1973-75		N		N
GREEN R AT NEATSVILLE, KY	03305800	399.00	1959-72		N	N	N
CASEY CR AT CASEY CR, KY	03305865	74.70	1973-75		N		N
GREEN R AT GREENSBURG, KY	03306500	736.00	1948-59		N		
BIG PITMAN CR NR GREENSBURG, KY	03307300		1966		N		N
LITTLE BARREN R NR MONROE, KY	03307800	244.00	1960-72		N		N
GREEN RIVER AT MUNFORDVILLE, KY	03308500	1673.00	1950-94	N	N	N	N

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

STATION NAME AND NUMBER	STATION NUMBER	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	BIO. AC-TIVE STA-TUS	PHY. AC-TIVE STA-TUS	SED. AC-TIVE STA-TUS	CHEM-ICAL AC-TIVE STA-TUS
ECHO R OUTLET AT MAMMOTH CAVE, KY	03308950		1974		N		N
GREEN R AT MAMMOTH CAVE, KY	03309000	1983.00	1958-74		N		N
WET PRONG BUFFALO CR NR MAMMOTH CAVE, KY	03309100	2.26	1962-74		N	N	N
MCDOUGAL CR AT HODGENVILLE, KY	03309600		1970		N		N
N FK NOLIN R AT HODGENVILLE, KY	03310000	36.40	1970-72		N		N
N FK NOLIN R NR EAGLE MILLS, KY	03310030		1970-79		N		N
NOLIN R AT EAGLE MILLS, KY	03310100		1970-72		N		N
MIDDLE CR AT NEELY BRANCH, KY	03310117		1971		N		N
MIDDLE CR NR TONIEVILLE, KY	03310120		1970-72		N		N
MIDDLE CR AT EAGLE MILLS, KY	03310130		1971-72		N		N
NOLIN R NR GLENDALE, KY	03310160	185.00	1971-75		N		N
VALLEY CR AT ELIZABETHTOWN, KY	03310210		1970-73		N		N
VALLEY CR AT GAITHERS, KY	03310225		1971-73		N		N
W RHUDES CR NR CECILIA, KY	03310250		1970-72		N		N
VALLEY CR NR GLENDALE, KY	03310270	90.10	1960-75		N		N
NOLIN R NR STAR MILLS, KY	03310273		1971-72		N		N
NOLIN R AT WAX, KY	03310500	600.00	1949-61		N	N	N
ROCK CR NR CLARKSON, KY	03310550		1980-82		N	N	N
DOG CR NR MAMMOTH CAVE, KY	03310600	8.12	1961-74		N		N
BYLEW CR NR MAMMOTH CAVE, KY	03311100	5.16	1965-74		N		N
GREEN R AT LOCK 6 AT BROWNSVILLE, KY	03311500	2762.00	1978-82		N		
BEAVERDAM CR AT RHODA, KY	03311600	10.90	1965-79		N		N
BEAR CR NR BEE SPRING, KY	03312040		1980-82		N	N	N
SUNFISH CR NR BEE SPRING, KY	03312070		1980-82		N	N	N
BEAR CR NR ROUNDHILL, KY	03312100	137.00	1960-72		N		N
BIG REEDY CR NR ROUNDHILL, KY	03312120		1980-82		N	N	N
LITTLE REEDY CR NR ROUNDHILL, KY	03312130		1980-82		N	N	N
BARREN R AT ACKERSVILLE, KY	03312400	298.00	1970-72		N		N
SKAGGS CR NR GLASGOW, KY	03312680	141.00	1970-72		N		N
BAYS FK AT CLAYPOOL, KY	03313570	80.90	1960-68		N		N
UNNAMED NON-CONTRIB STREAM AT GREENHILL, KY	03313590		1968		N		N
TRAMMEL CR NR SCOTTSVILLE, KY	03313900	93.40	1970-72		N		N
DRAKES CR NR ALVATON, KY	03314000	478.00	1968-72		N	N	N
UNNAMED NON-CONTRIB STREAM AT THREE SPRINGS, KY	03314595		1968		N		N
JENNINGS CR NR LOST RIVER, KY	03314610		1968		N		N
JENNINGS CR AT US 231 AT BOWLING GREEN, KY	03314650		1968		N		N
JENNINGS CR BELOW LOST R OUTLET AT BOWLING GREEN, KY	03314680		1968		N		N
JENNINGS CR AT BARREN R RD NR BOWLING GREEN, KY	03314700		1968		N		N
GASPER R AT HADLEY, KY	03315300	190.00	1960-72		N		N
WELCH CR NR ABERDEEN, KY	03315510		1980-82		N	N	N
INDIAN CAMP CR NR MORGANTOWN, KY	03315590		1980-82		N	N	N
E PRONG INDIAN CAMP CR NR MORGANTOWN, KY	03315600		1980-82		N	N	N
MUDDY CR AT DUNBAR, KY	03315810	94.30	1960-82		N	N	N
PANTHER CR NR ROCHESTER, KY	03315830		1980-82		N	N	N
MUD R NR LEWISBURG, KY	03316000	90.50	1960-72		N		N
WOLFLICK CR NR LEWISBURG, KY	03316200	116.00	1970-72		N		N
ROCKY CR NR PENROD, KY	03316300		1980-82		N	N	N
GREEN R AT PARADISE, KY	03316500	6183.00	1978-82		N		
POND CR NR MARTWICK, KY	03316640	125.00	1972-82		N	N	N
LEWIS CR AT ROCKPORT, KY	03316660		1980-82		N	N	N
MEETING CR NR BIG CLIFTY, KY	03316885		1980-82		N	N	N
N FK ROUGH R NR WESTVIEW, KY	03317500	42.00	1970-72		N		N
ROUGH R AT ROUGH R DAM NR FALLS OF ROUGH, KY	03318010	454.00	1962-83		N		
ROCK LICK CR NR FALLS OF ROUGH, KY	03318300		1980-82		N	N	N
SHORT CR NR FALLS OF ROUGH, KY	03318600		1980-82		N	N	N
S FK CANEY CR AT CANEYVILLE, KY	03318700		1980-82		N	N	N
ADAMS FK NR FORDSVILLE, KY	03319510		1980-82		N	N	N
W FK ADAMS FK NR FORDSVILLE, KY	03319530		1980-82		N	N	N
HALLS CR NR DUNDEE, KY	03319570		1980-82		N	N	N
ROUGH R AT HARTFORD, KY	03319600		1966-72		N		N
MUDDY CR NR BEAVER DAM, KY	03319615		1980-82		N	N	N
THREELICK CR NR BEAVER DAM, KY	03319620		1980-82		N	N	N
BARNETT CR NR HARTFORD, KY	03319700		1980-82		N	N	N

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

STATION NAME AND NUMBER	STATION NUMBER	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	BIO. ACTIVE STATUS	PHY. ACTIVE STATUS	SED. ACTIVE STATUS	CHEMICAL ACTIVE STATUS
N FK BARNETT CR NR HARTFORD, KY	03319750		1980-82		N	N	N
GREEN R AT LIVERMORE, KY	03319885	7512.00	1948-75		N		
BUCK CR NR LIVERMORE, KY	03319925		1980-82		N	N	N
LONG FALLS CR NR RUMSEY, KY	03320075		1980-82		N	N	N
LONG CR NR KIRKMANSVILLE, KY	03320400		1980-82		N	N	N
W FK POND R NR APEX, KY	03320700		1980-82		N	N	N
MCFARLAN CR NR WHITE PLAINS, KY	03320740		1980-82		N	N	N
DRAKES CR NR WHITE PLAINS, KY	03321035	52.50	1979-82		N	N	N
FLAT CR NR MADISONVILLE, KY	03321050		1980-82		N	N	N
POND R NR SACRAMENTO, KY	03321100	523.00	1959-73		N		N
POND R NR VANDETTA, KY	03321120		1980-82		N	N	N
OTTER CR NR HANSON, KY	03321150		1980-82		N	N	N
CYPRESS CR NR MIDLAND, KY	03321160		1980-82		N	N	N
CYPRESS CR NR CENTRAL CITY, KY	03321170		1980-82		N	N	N
LITTLE CYPRESS CR AT CENTRAL CITY, KY	03321180		1980-82		N	N	N
CYPRESS CR NR RUMSEY, KY	03321215	149.00	1973-75		N		N
GREEN R NR BEECH GROVE, KY	03321230	8545.00	1975-86	N	N	N	N
DEER CR NR SEBREE, KY	03321290	122.00	1974-75		N		N
N FK PANTHER CR NR MASONVILLE, KY	03321400		1980-82		N	N	N
N FK PANTHER CR NR MASONVILLE, KY	03321410	88.30	1970-71		N		N
PANTHER CR NR CURDSVILLE, KY	03321450	344.00	1973-80		N		N
LICK CR NR BLUFF CITY, KY	03321455		1980-82		N	N	N
KNOBLICK CR NR CURDSVILLE, KY	03321455		1980-82		N	N	N
GREEN R AT LOCK AND DAM 1 AT SPOTTSVILLE, KY	03321500	9181.00	1955-62		N		N
CANOE CR NR HENDERSON, KY	03322180	56.00	1979-82		N	N	N
CASEY CR NR WAVERLY, KY	03322370		1980-82		N	N	N
HIGHLAND CR NR UNIONTOWN, KY	03322400	166.00	1970-72		N		N
OHIO R NR UNIONTOWN DAM, KY	03322420		1975		N		N
EAGLE CR NR MORGANFIELD, KY	03382570		1980-82		N	N	N
TRADEWATER R AT POOLS MILL BR NR DAWSON SPRINGS, KY	03382600	60.40	1966-82		N	N	N
CASTLEBERRY CR NR DAWSON SPRINGS, KY	03382650		1980-82		N	N	N
TRADEWATER R AT COLLINS BRDG, NR DAWSON SPRINGS, KY	03382680		1965-67		N		N
TRADEWATER R AT MURPHY FK NR DAWSON SPRINGS, KY	03382685	94.10	1966-75		N		N
BUFFALO CR AT ST HWY 1338 NR DAWSON SPRINGS, KY	03382700		1965-69		N		
BUFFALO CR NR DAWSON SPRINGS, KY	03382720	12.70	1965-67		N		N
COPPERAS CR AT HWY BRIDGE NR ILSLEY, KY	03382835		1966-67		N		N
CANY CR AT MOUTH NR DAWSON SPRINGS, KY	03382855		1965-67		N		N
TRADEWATER R AT ST HWY 109 AT DAWSON SPRINGS, KY	03382870	143.00	1966-67		N		N
PINY CR BL LK BESHEAR D NR DAWSON SPRINGS, KY	03382890		1966-67		N		N
TRADEWATER R AT OLNEY, KY	03383000	255.00	1949-83	N	N	N	N
TRADEWATER R NR DALTON, KY	03383500	283.00	1965-66		N		N
DONALDSON CR NR FRYER, KY	03383650		1980-82		N	N	N
DONALDSON CR AT BR ON HWY 293 NR DALTON, KY	03383700		1966		N		N
TRADEWATER R AT ST HWY 293 NR DALTON, KY	03383710		1965-66		N		N
CLEAR CR AT HWY 70 BR NR RICHLAND, KY	03383755	17.00	1966-82		N	N	N
RICHLAND CR ABOVE TRIBUTARY NO 1 NR ILSLEY, KY	03383770		1966-67		N		N
UNNAMED TRIB NO 1 TO RICHLAND CR NR ILSLEY, KY	03383775		1966-67		N		N
UNNAMED TRIB NO 2 TO RICHLAND CR NR ILSLEY, KY	03383780		1966-67		N		N
RICHLAND CR AT RICHLAND, KY	03383800		1966		N		
UNNAMED TRIB TO CLEAR CR NR BEULAH, KY	03383901		1966		N		N
LICK CR NR RABBIT RIDGE, KY	03384035		1980-82		N	N	N
CLEAR CR AT BRIDGE ON ST HWY 293 NR PROVIDENCE, KY	03384050	197.00	1966-67		N		N
TRADEWATER R AT DAM NR PROVIDENCE, KY	03384060		1965-66		N		N
TRADEWATER R AT BRIDGE BELOW DAM NR PROVIDENCE, KY	03384072		1966-67		N		N
TRADEWATER R NR PROVIDENCE, KY	03384100	605.00	1965-72		N		N
TRADEWATER R NR BLACKFORD, KY	03384103		1980		N	N	N
PINEY CR NR SHADY GROVE, KY	03384106		1980-82		N	N	N
UNNAMED TRIB TO SLOVER CR NR PROVIDENCE, KY	03384133		1968				N
SLOVER CR NR CLAY, KY	03384136		1969		N		N
UNNAMED TRIB TO SLOVER CR NR CLAY, KY	03384138		1969		N		N
UNNAMED TRIB TO SLOVER CR NR CLAY, KY	03384140		1969-79		N		N
FREDRICKS DITCH NR CLAY, KY	03384145		1969		N		N
CRABORCHARD CR NR CLAY, KY	03384150		1965-82		N	N	N

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

STATION NAME AND NUMBER	STATION NUMBER	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	BIO. AC-TIVE STA-TUS	PHY. AC-TIVE STA-TUS	SED. AC-TIVE STA-TUS	CHEM-ICAL AC-TIVE STA-TUS
CRABORCHARD CR NR CLAY, KY	03384151		1969		N		N
CRABORCHARD CR AT CLAY, KY	03384152		1966		N		N
CRABORCHARD CR AT CLAY, KY	03384154	86.60	1969-72		N	N	N
CANEY FK NR CLAY, KY	03384158		1980-82		N	N	N
TRADEWATER R NR SULLIVAN, KY	03384180	861.19	1975-77		N	N	N
SMITH DITCH NR STURGIS, KY	03384200		1980-82		N	N	N
LOONEY CR NR CLUTTS, KY	03400480		1980-82		N	N	N
CLOVER FK NR SHIELDS, KY	03400650		1980-82		N	N	N
CLOVER FK AT EVARTS, KY	03400700	82.40	1960-72		N		N
MARTINS FK ABOVE SMITH, KY	03400785	23.80	1986-88			N	
CRANE CR NR SMITH, KY	03400796	1.63	1978-80		N		
BROWNICE CR NR OAKS, KY	03401290		1980-82		N	N	N
CLEAR CR NR PINEVILLE, KY	03402400		1980-82		N	N	N
LITTLE CLEAR CR NR PINEVILLE, KY	03402450		1980-82		N	N	N
STRAIGHT CR NR KETTLE ISLAND, KY	03402800		1980-82		N	N	N
LEFT FK STRAIGHT CR NR CARY, KY	03402830		1980-82		N	N	N
MIDDLE FK STINKING CR NR WALKER, KY	03403100		1980-82		N	N	N
ROAD FK CR NR BARNYARD, KY	03403150		1980-82		N	N	N
LITTLE INDIAN CR NR PERMON, KY	03403550		1980-82		N	N	N
FOURMILE BRANCH NR BRYANTS STORE, KY	03403590		1980-82		N	N	N
WATTS CR NR WOFFORD, KY	03404100		1980-82		N	N	N
JELLICO CR NR WILLIAMSBURG, KY	03404200	103.00	1979-82		N	N	N
MARSH CR NR DUCKRUN, KY	03404350		1980-82		N	N	N
TRIBUTARY TO LAUREL R NR LESBAS, KY	03404650		1980-82		N	N	N
TRIBUTARY TO LAUREL R NR PINE GROVE, KY	03404800		1980-82		N	N	N
LAUREL R AT MUNICIPAL DAM NR CORBIN, KY	03404820	140.00	1977-83		N		
LYNN CAMP CR AT CORBIN, KY	03404900	53.80	1973-83		N		
LAUREL R AT CORBIN, KY	03405000	201.00	1949-73		N		N
CRAIG CR NR HIGHTOP, KY	03405550		1980-82		N	N	N
S FK TO ROCKCASTLE R NR CRAWFORD, KY	03405600		1980-82		N	N	N
S FK ROCKCASTLE R NR PEOPLES, KY	03405700	95.10	1961-72		N		N
POND CR NR PEOPLES, KY	03405730		1980-82		N	N	N
LAUREL FK NR MCKEE, KY	03405780		1980-82		N	N	N
INDIAN CR NR HURLEY, KY	03405800		1980-82		N	N	N
ROUNDSTONE CR AT LIVINGSTON, KY	03405900	144.00	1960-72		N		N
WOOD CR NR LONDON, KY	03406000	3.89	1976-80	N	N		
CANE BRANCH NR PARKERS LAKE, KY	03407100	.67	1955-74		N	N	N
W FK CANE BR NR PARKERS LAKE, KY	03407200	.26	1957-73		N	Y	N
HELTON BRANCH AT GREENWOOD, KY	03407300	.85	1955-73		N	N	N
BUCK CR AT DYKES, KY	03407640	253.00	1973-75		N		N
S FK CUMBERLAND R NR STEARNS, KY	03410500	954.00	1960-72				
			1979-95	N	N	N	N
ROARING PAUNCH CR NR BARTHELL, KY	03410530		1980-82		N	N	N
ROCK CR AT WHITE OAK JUNCTION, KY	03410560		1980-82		N	N	N
S FK CUMBERLAND R NR YAMACRAW, KY	03410600	1083.00	1948-76		N		
WOLF CR AT WOLF CREEK, KY	03410700		1980-82		N	N	N
LITTLE S FK CUMBERLAND R NR OIL VALLEY, KY	03410900	98.20	1970-72		N		N
S FK CUMBERLAND R AT NEVELSVILLE, KY	03411000	1271.00	1960-75		N		
SINKING CR NR GREGORY, KY	03411100		1980-82		N	N	N
PUCKETT CR NR PATHFORK, KY	03411250		1980-82		N	N	N
PITMAN CR AT SOMERSET, KY	03412500	31.30	1970-72		N		N
FISHING CR NR HOGUE, KY	03412700	59.80	1970-72		N		N
CUMBERLAND R NR ROWENA, KY	03414000	5790.00	1965-79		N		N
CROCUS CR NR BAKERTON, KY	03414080	108.00	1973-75		N		N
CUMBERLAND R NR BURKESVILLE, KY	03414110	6050.00	1948-79		N		N
RED R NR ADAIRVILLE, KY	03435100	229.00	1970-72		N		N
WHIPPOORWILL CR NR CLAYMOUR, KY	03435140	20.80	1978-82		N		
WHIPPOORWILL CR AT DOT, KY	03435265	115.00	1973-75		N		N
ELK FK NR HADENSVILLE, KY	03435380	88.50	1973-75		N		N
W FK RED R NR SAINT ELMO, KY	03436190	162.00	1973-75		N		N
S FK LITTLE R AT HOPKINSVILLE, KY	03437500	46.50	1949-75		N		
LITTLE R NR CADIZ, KY	03438000	244.00	1958-73		N	N	N
MUDDY FK LITTLE R NR CERULEAN, KY	03438070	30.50	1978-82		N		

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

STATION NAME AND NUMBER	STATION NUMBER	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	BIO. ACTIVE STATUS	PHY. ACTIVE STATUS	SED. ACTIVE STATUS	CHEMICAL ACTIVE STATUS
EDDY CR NR LAMASCO, KY	03438170	71.70	1970-74		N		N
BARKLEY-KENTUCKY CANAL NR GRAND RIVERS, KY	03438190		1978-82		N		
CUMBERLAND R NR GRAND RIVERS, KY	03438220	17598.00	1969-86	N	N	N	N
LIVINGSTON CR NR DYCUSBURG, KY	03438470	112.00	1970-72		N		N
TENNESSEE R NR PADUCAH, KY	03609500	40200.00	1951-73		N		N
TENNESSEE R AT HWY 60 NR PADUCAH, KY	03609750	40330.00	1950		N		
			1952		N		
			1967-72		N		
			1974-86	N	N	N	N
CLARKS R AT MURRAY, KY	03610000	89.10	1970-72		N		N
CLARKS R AT ALMO, KY	03610200	134.00	1982-83	N	N	N	N
CLARKS R NR BENTON, KY	03610500	227.00	1948-61		N		N
W FK CLARKS R NR BREWERS, KY	03610545	68.70	1970-81		N	N	N
W FK CLARKS R AT KALER, KY	03610585	150.00	1973-75		N		N
HUMPHREY CR AT LACENTER, KY	03613000	44.20	1970-72		N		N
MAYFIELD CR AT LOVELACEVILLE, KY	07023000	212.00	1960-72		N		N
BAYOU DE CHIEN NR CLINTON, KY	07024000	68.70	1954-83	N	N	N	N
OBION CR NR ARLINGTON, KY	07023700	203.00	1970-72		N		N
MISSISSIPPI R AT HICKMAN, KY	07024070	922500.00	1969-70	N	N		N

N Eliminated activity

DISCONTINUED GROUND-WATER STATIONS

Station Number	County	Station Name	Period of Record
363634088191601	Calloway	Joe Parks	1948-83, 1988-97
365142087270401	Christian	Western State Hospital	1950-83, 1988-97
374638087054101	Daviess	OMU	1951-83, 1990-97
380425083091901	Elliott	Roy Adkins	1952-84, 1998-97
375928084362001	Fayette	M.A. Kehrt	1952-84, 1988-97
382031084553901	Franklin	Harp Road	1973-83, 1988-97
373925085540301	Hardin	OW-6	1989-95
374020085530601	Hardin	OW-5	1989-90, 1994,95
374035085525401	Hardin	OW-1-82	1982-98
374046085523501	Hardin	OW-1-81	1982-98 1994,95
375958085575401	Hardin	Hart #1	1980-92
374441087421001	Henderson	Town of Corydon	1952-83, 1988-97
380122085545001	Jefferson	80-1	1980-97
380252085530601	Jefferson	79-3	1979-97
380308085533501	Jefferson	79-4	1979-92
380341085534501	Jefferson	83-1	1983-97
380423085541501	Jefferson	Genewein	1976-97
380434085525101	Jefferson	E-1-d	1980-92
380458085523201	Jefferson	86-4	1986-97
380517085535201	Jefferson	77-1	1977-97
380532085515301	Jefferson	76-1	1976-97
380616085532801	Jefferson	Lou. Ext. Water District	1962-92
380619085512301	Jefferson	86-3	1986-97
380637085521301	Jefferson	D-1-d	1980-92
380709085531101	Jefferson	C-5-m	1980-97
380716085521801	Jefferson	RR-47	1945-97
380718085515802	Jefferson	C-3-s	1984-92
380718085524202	Jefferson	C-4-m	1983-92
380816085520701	Jefferson	Dohn	1943-97
380827085503001	Jefferson	86-5	1986-97
380843085530701	Jefferson	B-3-d	1980-97
380843085522801	Jefferson	B-2-d	1980-92
380846085520101	Jefferson	B-1-d	1980-92
380850085534701	Jefferson	78-2	1978-97
380852085515901	Jefferson	Waller	1943-92
380940085514001	Jefferson	81-1	1981-97
380955085531801	Jefferson	83-2	1983-97
381011085491601*	Jefferson	86-1	1986-93
381034085502601	Jefferson	RR-30	1945-97
381050085511001	Jefferson	RR-29	1945-97
381102085485601	Jefferson	86-2	1986-97
381102085512102	Jefferson	Kaufman	1944-92
381108085511301	Jefferson	Baugh	1945-92
381123085491401	Jefferson	RR-32	1945-87
381130085515001	Jefferson	Thienemen	1944-97
381139085502301	Jefferson	81-2	1991-97

DISCONTINUED GROUND-WATER STATIONS

Station Number	County	Station Name	Period of Record
381142085475702	Jefferson	RR-42	1945-97
381143085465801	Jefferson	RR-25	1945-97
381155085483401	Jefferson	Mathis	1944-92
381157085510201	Jefferson	RR-39	1945-92
381204085455301	Jefferson	CP-16	1979-97
381207085484601	Jefferson	RR-41	1945-97
381209085472101	Jefferson	C-7	1935-97
381212085473801	Jefferson	C-6	1935-92
381213085521701	Jefferson	RR-22	1945-97
381221085475001	Jefferson	C-5	1935-92
381222085505201	Jefferson	RR-27	1945-97
381224085474001	Jefferson	Early Times	1947-92
381229085510201	Jefferson	Triangle Refinery	1978-92
381246085470601	Jefferson	Seagrams TW #2	1943-97
381246085463201	Jefferson	CP-18A	1984-97
381250085484901	Jefferson	C-2	1935-92
381251085500501	Jefferson	RR-35	1945-97
381256085471501	Jefferson	National Distillery TW-2	1941-92
381257085471801	Jefferson	TW-4	1942-97
381259085471502	Jefferson	National Distillery TW-1	1941-92
381259085511002	Jefferson	RR-21	1945-97
381305085501302	Jefferson	Reynolds Metals	1980-92
381309085505302	Jefferson	RR-24	1945-92
381313085495501	Jefferson	B.F. Goodrich TW-2	1947-92
381315085501401	Jefferson	Airco TW-11	1956-92
381315085502602	Jefferson	NC-TW-D	1956-97
381316085502101	Jefferson	Airco TW-12	1956-92
381320085464101	Jefferson	CP-15	1978-97
381324085460401*	Jefferson	American Standard	1978-93
381331085491601	Jefferson	RR-26	1945-97
381338085481601	Jefferson	CP-8	1977-92
381346085453801	Jefferson	St. Patricks’s well	1981-97
381346085454201	Jefferson	CP-1	1977-97
381355085465901	Jefferson	Louisville Cooperage	1948-92
381400085445001	Jefferson	CP-6	1977-97
381406085463001	Jefferson	United Catalyst	1978-92
381417085500301	Jefferson	RR-23	1945-97
381424085454602	Jefferson	CP12A	1980-92
381428085485701	Jefferson	78-6	1978-97
381430085452602	Jefferson	Conna	1943-92
381430085472501	Jefferson	CP-17	1982-97
381500085445501	Jefferson	89-2	1989-92
381500085454701	Jefferson	78-5	1978-92
381501085464601	Jefferson	CP-10	1977-97
381503085452601	Jefferson	Stewarts	1981-92
381505085475701	Jefferson	CP-5	1977-92
381508085455701	Jefferson	CP-4	1977-97
381514085453502	Jefferson	CP11A	1984-92
381517085455501	Jefferson	86-6	1986-92
381518085451801	Jefferson	87-1	1986-96
381518085454401	Jefferson	86-10	1986-97
381524085452301	Jefferson	86-8	1986-92
381528085454201	Jefferson	86-9	1986-92
381536085492801	Jefferson	CP-2	1977-92
381538085434401*	Jefferson	78-7	1978-92

DISCONTINUED GROUND-WATER STATIONS

Station Number	County	Station Name	Period of Record
381539085465201	Jefferson	CP-9	1977-97
361343085480101	Jefferson	CP-14	1978-97
381553085431602	Jefferson	M-2	1978-97
381604085430501	Jefferson	WC-1	1946-97
381607085483601	Jefferson	CP-3	1977-97
381613085421901	Jefferson	WC-14	1946-92
381628085473101	Jefferson	CP-13	1978-92
381638085415801	Jefferson	WC-4	1946-97
381648085421201	Jefferson	WC-5	1946-97
381653085413302	Jefferson	WC-9A	1979-97
381701085414002	Jefferson	WC-8A	1979-92
381722085405801	Jefferson	WC-11	1946-92
381742085402001	Jefferson	WC-13	1946-92
381827085392401	Jefferson	WC-26	1946-92
374151085413201	Larue	Wagner	1971-83, 1988-97
370757084045001	Laurel	Hale	1951-62, 1965-84,
371033082374301*	Letcher	C&ORR	1962-92 1988-97
372739084402101	Lincoln	Peck	1953-84 1988-97
365046086444901	Logan	Appling	1988-97
370551088510401	Mccracken	Heath	1969-83, 1988-97
370211085354301	Metcalfe	Froedge	1979-83, 1988-97
370342086080101	Warren	Estes	1961-83, 1988-97

* destroyed

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^{0}	kilometer
	Area	
acre	4.047×10^{3}	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi^2)	2.590×10^{0}	square kilometer
	Volume	
gallon (gal)	3.785×10^{0}	liter
	3.785×10^{0}	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^{3}	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft^3)	2.832×10^{1}	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^{3}	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second
	2.832×10^{1}	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^{1}	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
	Mass	
ton (short)	9.072×10^{-1}	megagram or metric ton

Sea level: In this report “sea level” refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.