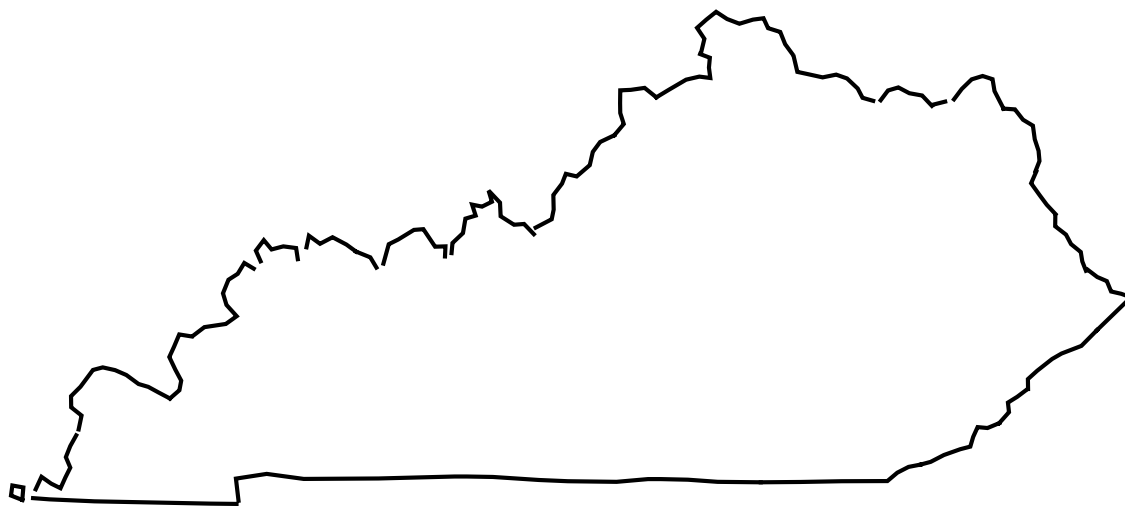




Water Resources Data Kentucky Water Year 2000

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

Water-Data Report KY-00-1



U.S. DEPARTMENT OF THE INTERIOR
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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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This report was prepared in cooperation with the Commonwealth of Kentucky and with other agencies under the general supervision of Dennis L. McClain, Supervisory Hydrologic Technician, and Harry C. Rollins, District Chief, Kentucky.

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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]

	Page
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Ohio River:	
BIG SANDY RIVER BASIN	
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Grapevine Creek near Phyllis (d)	03207965 44
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LICKING RIVER:	
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**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]

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Ohio River--Continued	
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**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
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Southern Ditch:		
Northern Ditch:		
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CUMBERLAND RIVER:		
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**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,
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GROUND-WATER WELLS, BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED GROUND-WATER LEVELS

GRAVES COUNTY

Well 365210088391301 (Viola)	388
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JEFFERSON COUNTY

Well 381441085452701 Local number 45-14-71, (A-2)	390
Well 381442085444801 (Metro United Way)	392
Well 381445085460201 (9th & Broadway QW)	392
Well 381447085454001 Local number 45-14-66, (CJ&T #5)	392
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Well 381701085414002 Local Number WC-8A	402
Well 381742085402001 Local Number 40-17-5	404
Well 381827085392401 Local Number 39-18-1	404
Well 381904085384801 Local Number 38-19-2	404
Well 381958085380201 (Thompson Well)	405
Well 382007085373801 (Bird Man)	405
Well 382026085374301 (Little Dean)	405
Well 382032085375601 (Staples)	406
Well 382039085375201 Local Number WP-7	408
Well 382051085380801 (LWC-1)	410
Well 382058085373501 (Shirley Avenue)	412
Well 382102085380701 (WP-19)	412
Well 382105085375101 (Hays-Kennedy)	412
Well 382120085374701 (River Fields)	413
Well 382124085375401 (Abell)	413

PRECIPITATION STATION, BY COUNTY FOR WHICH RECORD IS PUBLISHED

ROWAN COUNTY, KENTUCKY

390706083324900	414
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INTRODUCTION

Water resources data for the 2000 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 114 stream-gaging stations. It also includes water-quality data for 8 stations sampled at regular intervals and continuous temperature at 4 stations. Ground-water levels are published for 6 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 2000, 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 KY00-1." 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, John H. Morse, Secretary,
Kentucky Geological Survey, Dr. Donald C. Haney, 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 Carrollton, Ann C. Deatherage, Mayor,
City of Elizabethtown, David Willmoth, Jr., Mayor,
City of Georgetown, Everette L. Varney, Mayor,
City of Glasgow, Charles B. Honeycutt, Mayor,
City of Lewisburg, Gwyneth J. McKinney, 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, John Overing, RC&D Coordinator,
University of Louisville, Dr. John Schumaker, President,
Water Resources Research Institute, Dr. Lyle Sendlein, 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 2000 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 23 surface-water gaging stations across Kentucky, annual peak flows during the 2000 water year had recurrence intervals of less than 25 years. Most recurrence intervals across the State were less than two years with one site in the Tygarts Creek Basin, and one site in the Salt River Basin having a recurrence interval of less than 25 years. Most of the low flow recurrence intervals were less than ten years across the State with three low flow recurrence intervals in the Kentucky, Salt, and Cumberland River Basins being greater than twenty years (table 1).

No major flooding occurred in the State during the 2000 water year. Mean daily streamflows across the State ranged from 41 to 95 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. Trace element samples are collected and analyzed only 4 times per year at each station following a redesign of the 1998 sampling protocol.

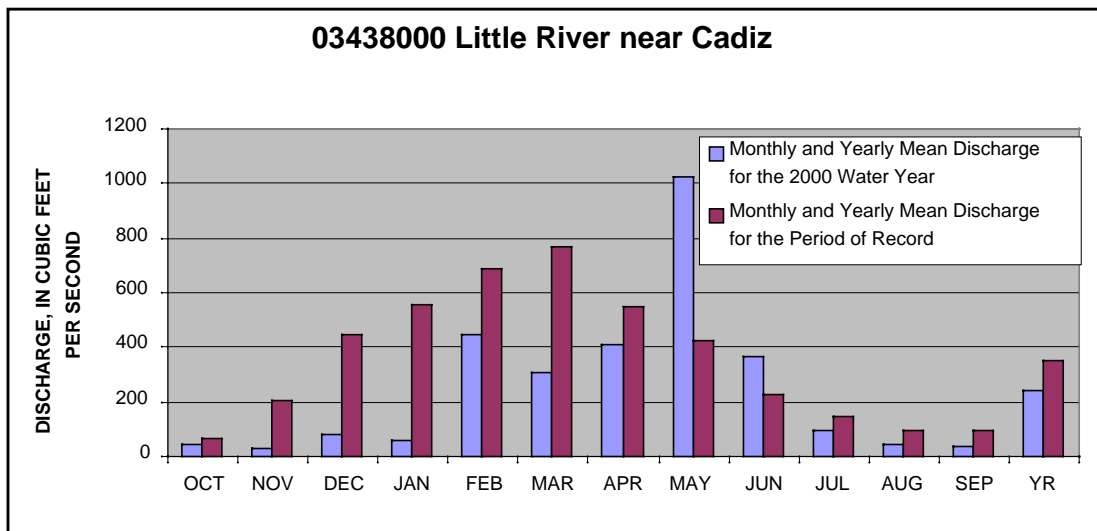
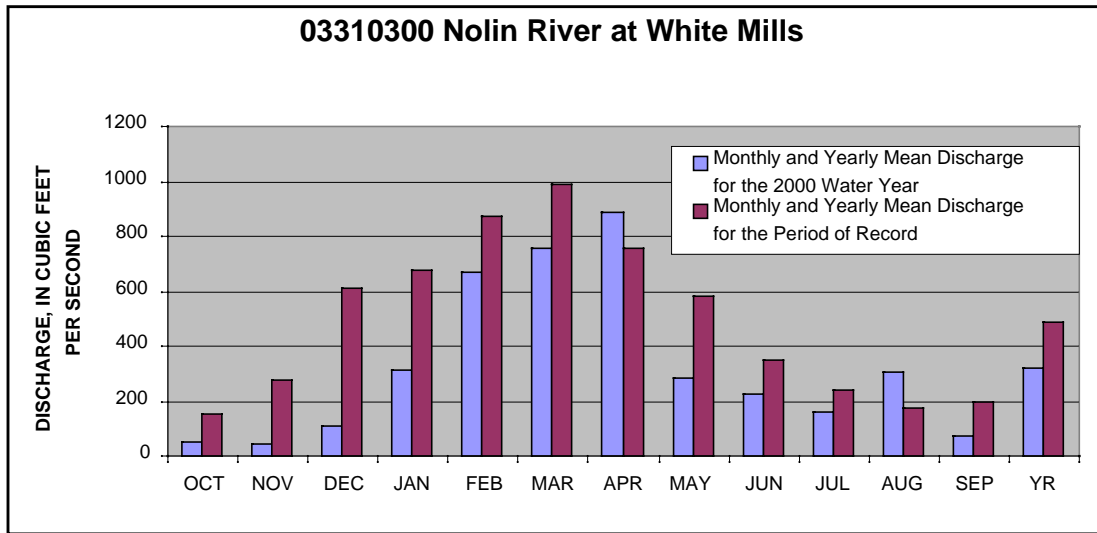
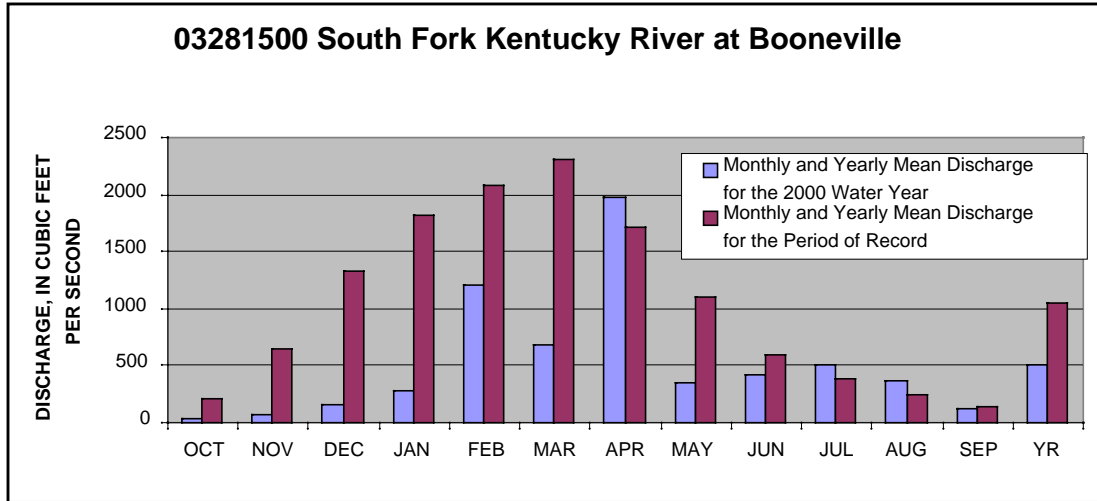


Figure 1. Mean Discharge during 2000 water year and period of record for three representative gaging stations.

Table 1. Mean, maximum, and minimum streamflow for water year 2000 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)
<u>TYGARTS CREEK BASIN</u>							
03217000	60	216	70	18400	=25	0.13	<10
<u>KINNICONICK CREEK BASIN</u>							
03237250	9	225	77	23100		0.00	
<u>LICKING RIVER BASIN</u>							
03251200	9	211	69	11600		0.00	
<u>KENTUCKY RIVER BASIN</u>							
03280700	43	42.6	46	4480	<5	0.84	<2
03281040	28	115	42	7440	<2	2.3	<2
03281100	36	116	44	3870	<2	2.1	<10
03281500	67	507	48	11800	<2	0.11	>20
03282500	45	59.9	69	1210	<2	0.00	=10
03283500	63	294	59	4500	<2	7.8	<10
03285000	58	237	50	11000	<2	0.54	<2
<u>BEARGRASS CREEK BASIN</u>							
03293000	56	24.0	95	2320	<10	0.10	<10
<u>SALT RIVER BASIN</u>							
03298000	56	155	85	18000	<25	0.15	<2
03300400	28	256	41	14000	<2	0.00	>20
03301500	62	885	49	20400	<2	7.1	<10
<u>GREEN RIVER BASIN</u>							
03307000	61	122	42	8760	<5	3.5	<10
03310300	41	322	66	5420	<2	34	<20
03320500	60	145	53	2880	<2	0.00	<2
<u>CUMBERLAND RIVER BASIN</u>							
03404900	27	41.4	47	1100	<2	0.25	>20
03406500	64	473	50	9840	<2	7.2	<10
03410500	58	1009	57	37700	<2	22	<10
03438000	60	244	69	6560	<2	18	<10
<u>MASSAC CREEK BASIN</u>							
03611260	29	12.9	75	4430	<10	0.46	<2
<u>BAYOU DE CHIEN BASIN</u>							
07024000	55	97.0	94	4200	<5	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 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. Four 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. Some water levels in northeast Jefferson County continue to decline because of increased 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 NO_x 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.nrel.colostate.edu/NADP>

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 2000
[MDL, maximum detection limit; N, number of samples; <, less than, CV, coefficient of variation; nutrient and major ion concentrations in milligrams per liter; trace element concentrations in micrograms per liter]

Analyte	Blanks				
	MDL	N	N>MDL	Minimum	Maximum
A. Dissolved nutrients					
Ammonia nitrogen	0.01	52	4	<0.002	0.024
Nitrite plus nitrate nitrogen	0.05	52	4	<0.005	1.132
Total phosphorus	0.007	52	2	<0.001	0.015
B. Dissolved major ions					
Calcium	0.02	54	46	<0.002	0.47
Magnesium	0.001	54	17	<0.001	0.104
Sodium	0.025	54	7	<0.025	0.239
C. Dissolved trace elements					
Copper	0.23	54	4	<0.2	2.32
Iron	3.0	54	0	3.0	3.0
Lead	0.3	54	2	0.3	0.82
Manganese	0.1	54	5	0.1	0.516
Zinc	0.5	54	32	0.5	25.25

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 2000 water year that began October 1, 1999, and ended September 30, 2000. 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 3-7. 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 ($\mu\text{g/L}$) 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 $\mu\text{g/L}$ 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 indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of indentation 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."

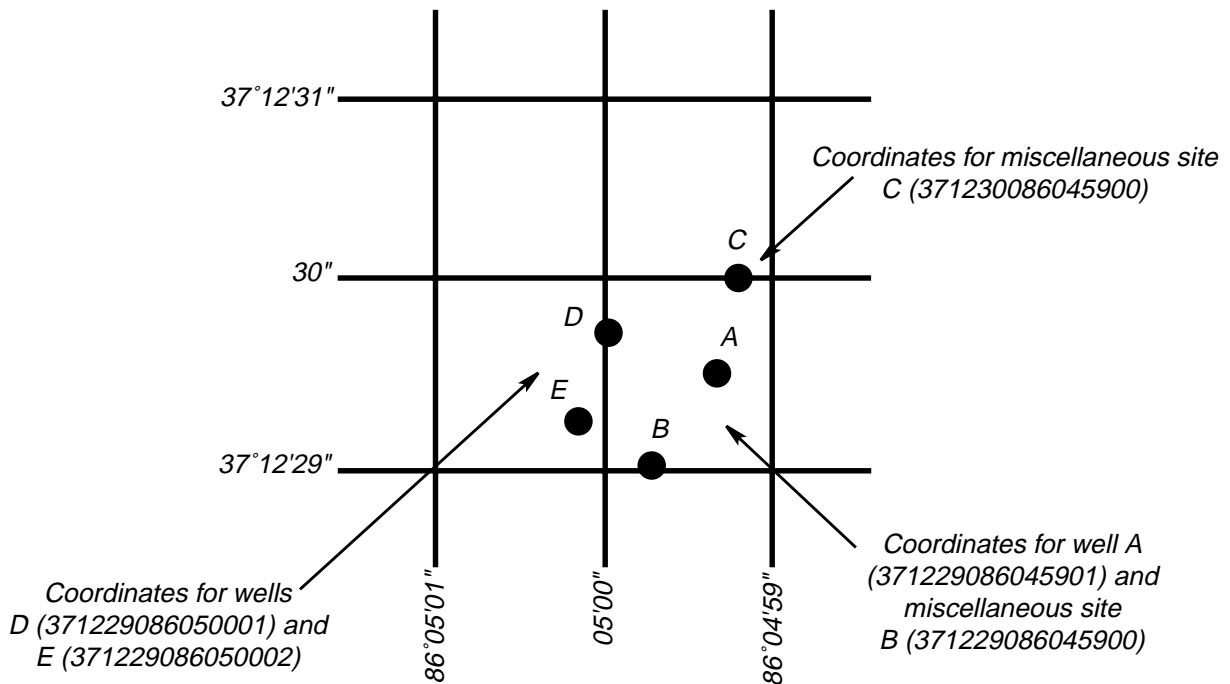


Figure 2. System for numbering wells, springs, and miscellaneous sites (latitude and longitude).

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 ft³/s; to the nearest tenth between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to three significant figures for more than 1,000 ft³/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 4.

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 ($\mu\text{g/L}$) 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 $\mu\text{g/L}$ 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/NTN Coordination Office, Colorado State University, Fort Collins, CO 80523 (Telephone: 303-491-5643).

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 6 and 7.

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 the graph or punched tape of a water-stage 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 specific 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

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. 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 the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters.

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes it 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.

Algae are mostly aquatic single-celled, colonial, or multicelled plants containing chlorophyll and lacking roots, stems, and leaves.

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 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, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters

Cubic foot per second per square mile [CFSM, (ft³/s)/mi²] 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.

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.

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.

Bacteria are microscopic unicellular organisms, 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.

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.

Fecal coliform bacteria are bacteria that 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.

Fecal streptococcal bacteria are bacteria found in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. 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.

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 faecalis*, *Streptococcus faecium*, *Streptococcus avium*, and their variants.

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.

Base flow is flow in a channel sustained by ground-water discharge in the absence of direct runoff.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Benthic organisms (invertebrates) are the group of animals 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.

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).

Dry mass refers to the mass of residue present after drying in an oven at 105 °C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash, and sediment in the sample. Dry mass is expressed in the same units as ash mass.

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.

Wet mass is the mass of living matter plus contained water.

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

Bottom material: See "Bed material."

Cells/volume refers to the number of plankton cells or natural units counted using a microscope and grid or counting cell. Results are generally reported as cells or units per milliliter.

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:

sphere $\frac{4}{3} \pi r^3$ cone $\frac{1}{3} \pi r^2 h$ cylinder $\pi r^2 h$.

From cell volume, total algal biomass expressed as biovolume ($\mu\text{m}^3/\text{mL}$) 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.

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.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Colloid is any substance with particles in such a fine state of subdivision dispersed in a medium (for example, water) that they do not settle out; but not in so fine a state of subdivision that they can be said to be truly dissolved.

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.

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 that meets either of the following conditions:

1. Stage or streamflow are recorded at some interval on a continuous basis. The recording interval is usually 15 minutes, but may be less or more frequent.
2. Water-quality, sediment, or other hydrologic measurements are recorded at least daily.

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 station. 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, 448.8 gallons per minute, or 0.02832 cubic meters per second.

Cubic foot per second-day (CFS-DAY, Cfs-day, $[(\text{ft}^3/\text{s})/\text{d}]$) 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, 1.9835 acre-feet, 646,317 gallons, or 2,447 cubic meters.

Daily record is a summary of streamflow, sediment, or water-quality values computed from data collected with sufficient frequency to obtain reliable estimates of daily mean values.

Daily record station is a site for which daily records of streamflow, sediment, or water-quality values are computed.

Datum, as used in this report, is an elevation above mean sea level to which all gage height readings are referenced.

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

Discharge, or flow, is the volume of water (or more broadly, volume of fluid including solid- and dissolved-phase material), that passes a given point in a given period of time.

Annual 7-day minimum is the lowest mean discharge for 7 consecutive days in a year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic 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 discharge is the discharge at a particular instant of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

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 agencies that collect water data. Determinations of “dissolved” constituents are made on subsamples of the filtrate.

Dissolved oxygen (DO) content of water in equilibrium with air 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, with small temperature changes having the more significant offset. Photosynthesis and respiration may cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration of water 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 that analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to reflect the change. Alternatively, alkalinity concentration (as mg/L CaCO₃) can be converted to carbonate concentration by multiplying by 0.60.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

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

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. Diversity 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 site on a stream is that area, measured in a horizontal plane, that has a common outlet at the site for its surface runoff. Figures of drainage area 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 is occupied by a drainage system with a common outlet for its surface runoff (see “Drainage area”).

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.

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 the elevation of the zero point of the reference gage from which gage height is determined as compared to sea level (see "Datum"). This elevation is established by a system of levels from known benchmarks, by approximation from topographic maps, or by geographical positioning system.

Gage height (G.H.) is the water-surface elevation referenced to the gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

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 semivolatiles organic compounds that are extractable from water in methylene chloride.

Ground-water level is the elevation of the water table or another potentiometric surface at a particular location.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally 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>

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 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 U.S. Geological Survey. Each hydrologic unit is identified by an 8-digit number.

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

$$I = I_0 e^{-\lambda L},$$

where I_0 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

$$\lambda = -\frac{1}{L} \log_e \frac{I}{I_0}.$$

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.

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.

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.

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, $\mu\text{g/g}$) 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, $\mu\text{g/kg}$) 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, $\mu\text{g/L}$) 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.

Microsiemens per centimeter (US/CM, $\mu\text{S/cm}$) 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.

Miscellaneous site, or miscellaneous station, is a site where streamflow, sediment, and/or water-quality data are collected once, or more often on a random or discontinuous basis.

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 geodetic datum derived from a general adjustment of the first order level nets of the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, 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>

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.

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), suspended organic carbon (SOC), or total organic carbon (TOC).

Organism is any living entity.

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 (m²), 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.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

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 U.S. Geological Survey 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 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.

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, or volume.

Periodic station is a site where stage, discharge, sediment, chemical, 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.

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 any 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).

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.

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.

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.

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.

Fire algae (Pyrrhophyta) are a group of algae that are free-swimming unicells characterized by a red pigment spot.

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.

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.

Polychlorinated biphenyls (PCB's) 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 (PCN's) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCB's) 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 production 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 [$\text{mg C}/(\text{m}^2/\text{time})$] for periphyton and macrophytes or per volume [$\text{mg C}/(\text{m}^3/\text{time})$] 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.

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [mg O/(m²/time)] for periphyton and macrophytes or per volume [mg O/(m³/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.

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 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.

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 (7Q₁₀) 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 7Q₁₀ 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 7Q₁₀.

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

River mile is the distance of a point on a river measured in miles from the river's mouth along the low-water channel.

River mileage is the linear distance along the meandering path of a stream channel determined in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council.

Runoff in inches (IN., in.) is the depth, in inches, to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sea level refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment of the first-order level nets of the United States and Canada, formerly called Sea Level Datum of 1929. See: http://www.co-ops.nos.noaa.gov/glossary/gloss_n.html#NGVD

Sediment is solid material that is transported by, suspended in, or deposited from water. It originates mostly from disintegrated rocks; it also 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 factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along or very close to the bed. In this report, bed load is considered to consist of particles in transit from the bed to an elevation equal to the top of the bed-load sampler nozzle (usually within 0.25 ft of the streambed).

Bed-load discharge (tons per day) is the quantity of sediment moving as bed load, reported as dry weight, that passes a cross section in a given time.

Suspended sediment is the sediment that is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

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 entire sample is used for the analysis.

Mean concentration of suspended sediment is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment discharge (tons/day) is the quantity of sediment moving in suspension, reported as dry weight, 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 (ft³/s) x 0.0027.

Suspended-sediment load is a term that refers to material in suspension. 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.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, reported as dry weight, that passes a cross section in a given time.

Total sediment load or total load is a term that refers to the total sediment (bed load plus suspended-sediment load) that is in transport. 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 total sediment discharge.

Seven-day 10-year low flow (7Q₁₀, 7Q₁₀) is the minimum flow averaged over 7 consecutive days that is expected to occur on average, once in any 10-year period. The 7Q₁₀ has a 10-percent chance of occurring in any given year.

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. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific conductance is related to the type and concentration of ions in solution 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 MILL/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.

Artificial substrate is a device which 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.

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

Surface area of a lake or impoundment is that area encompassed by the boundary of the lake or impoundment as shown on USGS topographic maps, or on other available maps or photographs. The computed surface areas reflect the water levels of the lakes or impoundments at the times when the information for the maps or photographs was obtained.

Surficial bed material is the top 0.1 to 0.2 ft of the bed material that 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 associated with 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-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 analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative suspended-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 analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

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.

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	<i>Hexagenia</i>
Species	<i>Hexagenia limbata</i>

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 that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot is the dry mass of dissolved solids in 1 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 the rate representing a mass of 1 ton of a constituent in streamflow passing a cross section in 1 day. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

Total is the total amount of a given constituent in a representative suspended-sediment 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 suspended-sediment mixture and that the analytical method determined all of the constituent in the sample.)

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 total 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 recoverable is the amount of a given constituent that is in solution after a representative suspended-sediment 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, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Turbidity is a measurement of the collective optical properties of a water sample that cause light to be scattered and absorbed rather than transmitted in straight lines; the higher the intensity of scattered light, the higher the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU) or Formazin turbidity units (FTU) depending on the method and equipment used.

Volatile organic compounds (VOC's) 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 VOC's are manmade 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 level is the water-surface elevation or stage of the free surface of a body of water above or below any datum (see "Gage height"), or the surface of water standing in a well, usually indicative of the position of the water table or other potentiometric surface.

Water table is the surface of a ground-water body at which the water is at atmospheric pressure.

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

Water year in U.S. Geological Survey 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, 1999, is called the "1999 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.

Well is an excavation (pit, hole, tunnel), generally cylindrical in form and often walled in, drilled, dug, driven, bored, or jetted into the ground to such a depth as to penetrate water-yielding geologic material and allow the water to flow or to be pumped to the surface.

Wet weight refers to the weight of animal tissue or other substance including its contained water.

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

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 pages.
- 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 pages.

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

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

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 pages.

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 pages.
- 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 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G.L. Bodhaine: USGS–TWRI book 3, chap. A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H.F. Matthai: USGS–TWRI book 3, chap. A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS–TWRI book 3, chap. A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R.W. Carter and Jacob Davidian: USGS–TWRI book 3, chap. A6. 1968. 13 pages.

- 3-A7. *Stage measurement at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A8. 1969. 65 pages.
- 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 pages.
- 3-A10. *Discharge ratings at gaging stations*, by E.J. Kennedy: USGS–TWRI book 3, chap. A10. 1984. 59 pages.
- 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 pages.
- 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 pages.
- 3-A13. *Computation of continuous records of streamflow*, by E.J. Kennedy: USGS–TWRI book 3, chap. A13. 1983. 53 pages.
- 3-A14. *Use of flumes in measuring discharge*, by F.A. Kilpatrick and V.R. Schneider: USGS–TWRI book 3, chap. A14. 1983. 46 pages.
- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS–TWRI book 3, chap. A15. 1984. 48 pages.
- 3-A16. *Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS–TWRI book 3, chap. A16. 1985. 52 pages.
- 3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS–TWRI book 3, chap. A17. 1985. 38 pages.
- 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 pages.
- 3-A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS–TWRI book 3, chap. A19. 1990. 31 pages.
- 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 pages.
- 3-A21. *Stream-gaging cableways*, by C. Russell Wagner: USGS–TWRI book 3, chap. A21. 1995. 56 pages.

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 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programmed text for self-instruction*, by G.D. Bennett: USGS–TWRI book 3, chap. B2. 1976. 172 pages.
- 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 pages.
- 3-B4. *Regression modeling of ground-water flow*, by R.L. Cooley and R.L. Naff: USGS–TWRI book 3, chap. B4. 1990. 232 pages.
- 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 pages.
- 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 pages.
- 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 pages.

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Section C. Sedimentation and Erosion Techniques

- 3-C1. *Fluvial sediment concepts*, by H.P. Guy: USGS–TWRI book 3, chap. C1. 1970. 55 pages.
- 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 pages.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS–TWRI book 3, chap. C3. 1972. 66 pages.

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

Section B. Surface Water

- 4-B1. *Low-flow investigations*, by H.C. Riggs: USGS–TWRI book 4, chap. B1. 1972. 18 pages.
- 4-B2. *Storage analyses for water supply*, by H.C. Riggs and C.H. Hardison: USGS–TWRI book 4, chap. B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H.C. Riggs: USGS–TWRI book 4, chap. B3. 1973. 15 pages.

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 pages.

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 pages.
- 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 pages.
- 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 pages.
- 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 pages.
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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 pages.

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 pages.

- 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 pages.
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- 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 pages.

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 pages.
- 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 pages.
- 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 pages.

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

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 pages.

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 Gibbs, 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 Gibbs, 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 Gibbs, 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 Gibbs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A4. 1999. 156 p.
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- 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 pages.
- 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 pages.

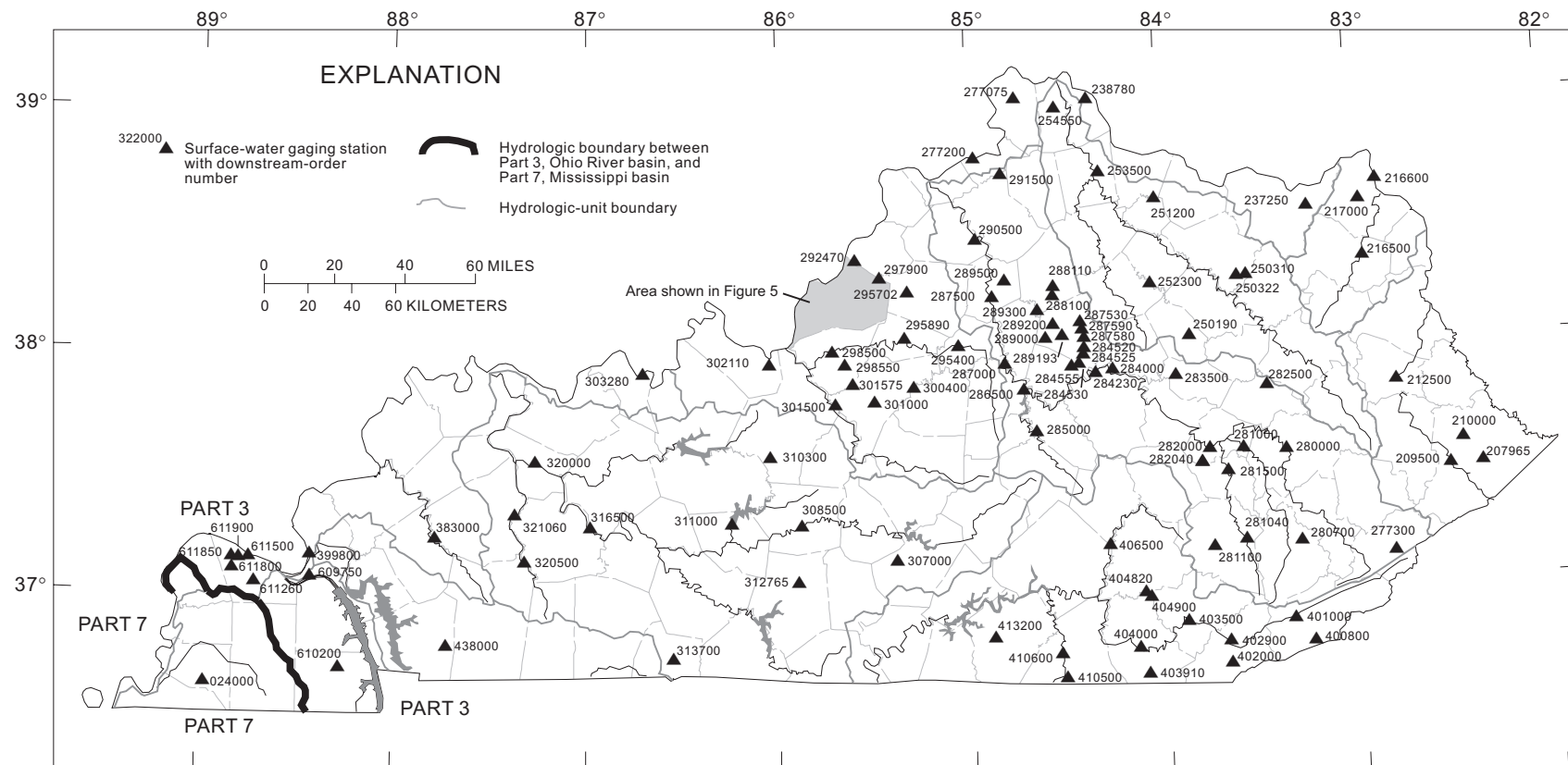


Figure 3. Location of gaging stations in Kentucky.

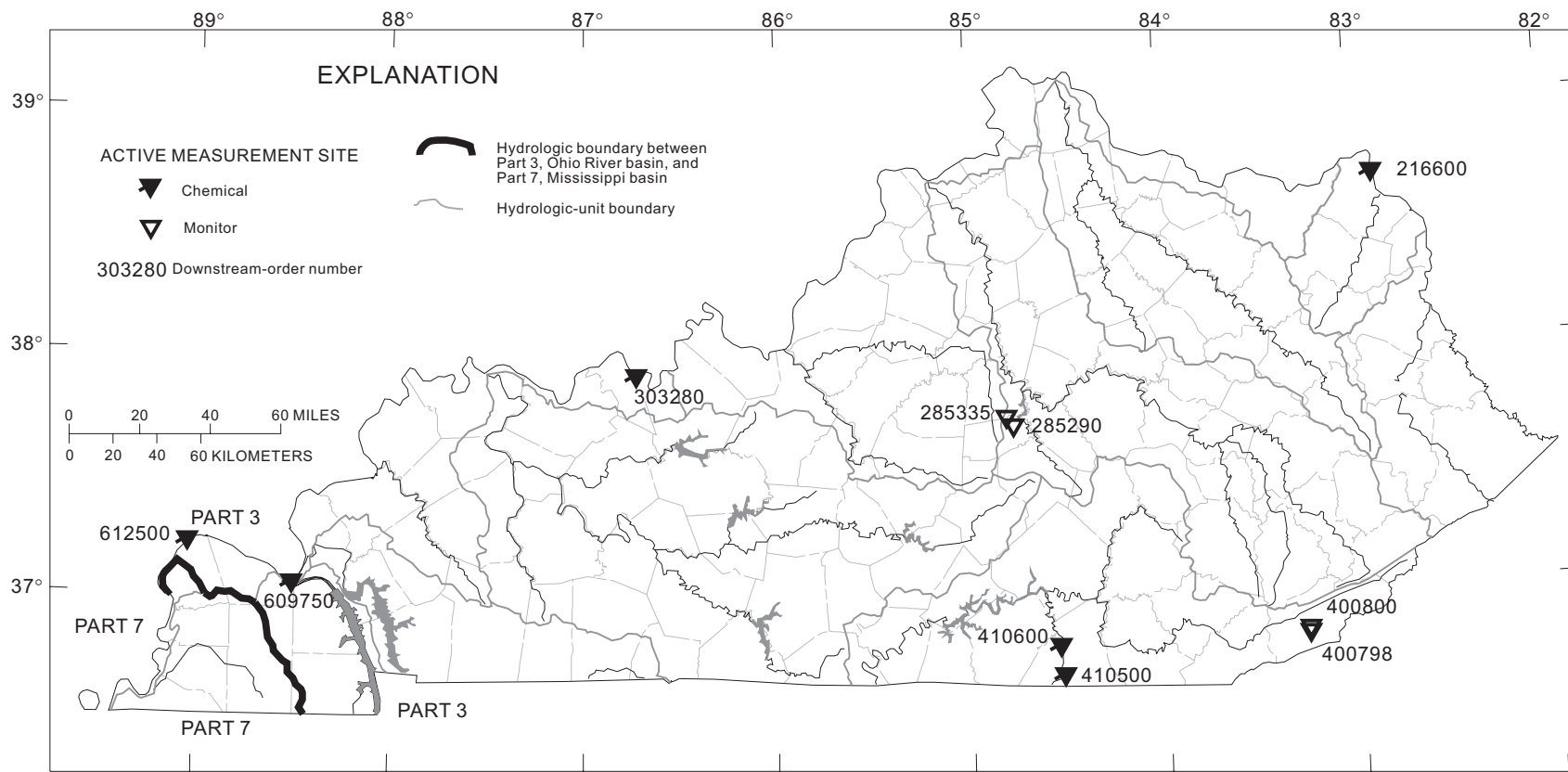


Figure 4. Location of surface-water quality stations in Kentucky.

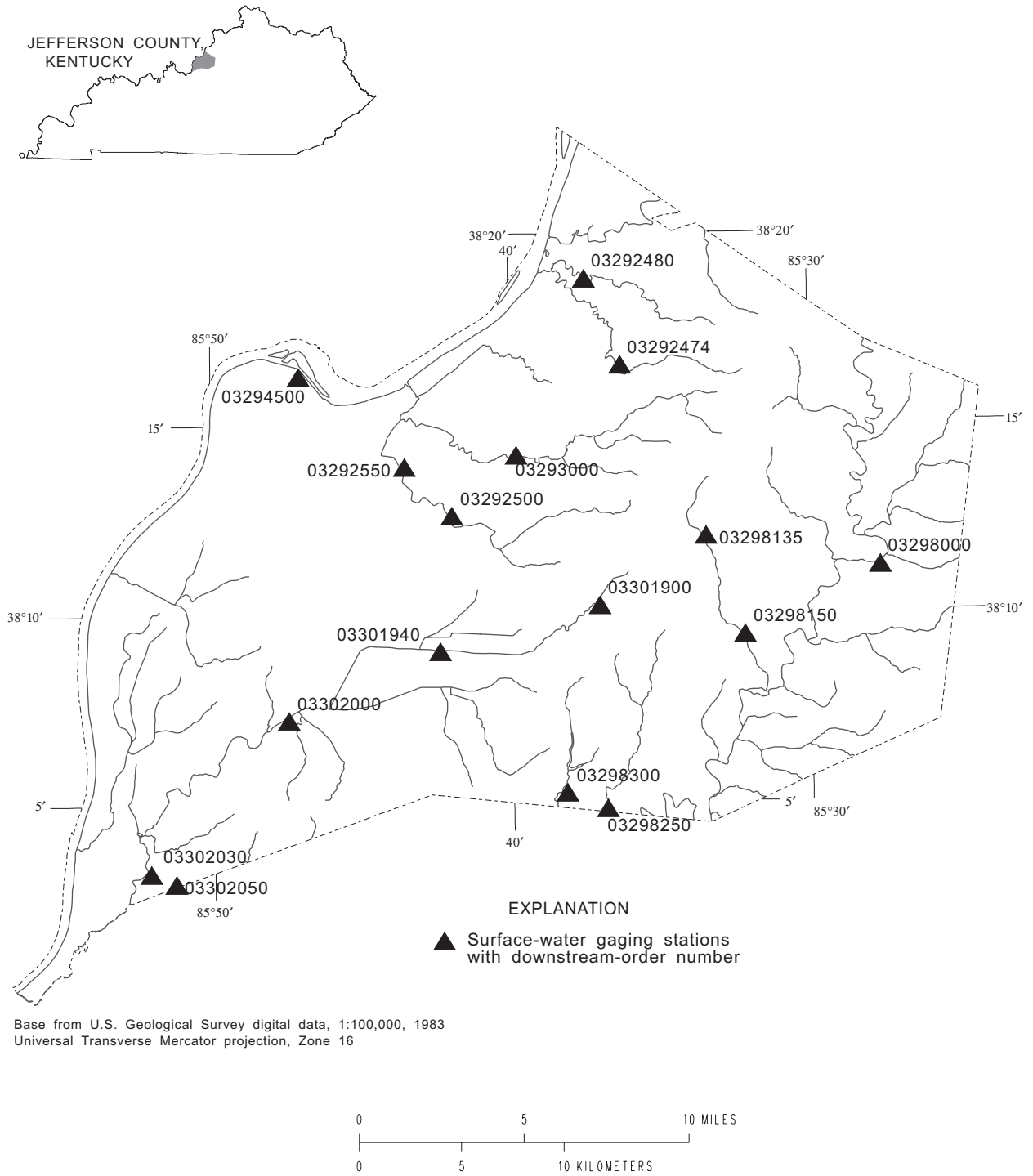


Figure 5. Location of gaging stations in Jefferson County.

BIG SANDY RIVER BASIN

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 mi².

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

GAGE.--Water-stage recorder. 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jul 5	1745	*600	*2.25	Jul 13	1230	545	2.18
Jul 11	0230	336	1.88	Aug 8	2015	530	2.16

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	2.3	.91	1.5	e1.4	10	2.8	4.2	7.5	1.3	4.0	5.2	5.5
2	2.0	2.8	1.5	e1.4	7.4	2.3	3.7	6.2	1.1	3.4	2.6	4.8
3	2.0	3.3	1.5	e1.3	5.8	2.2	13	5.1	1.1	3.2	2.6	4.4
4	3.9	2.1	1.5	4.1	5.0	2.0	74	4.6	1.6	19	2.8	4.2
5	2.5	1.6	1.6	3.9	4.0	1.8	28	4.2	2.1	100	2.4	4.2
6	1.3	2.0	1.9	3.3	3.2	1.7	16	5.1	1.7	51	2.1	3.6
7	1.1	1.8	1.6	3.1	2.9	1.6	13	5.1	1.5	21	2.0	3.3
8	1.4	1.6	1.6	3.3	2.9	1.6	13	4.6	1.2	16	54	3.2
9	3.2	1.7	1.6	7.9	3.5	2.3	13	4.3	1.0	12	34	3.2
10	13	1.4	2.5	9.2	4.7	2.0	12	4.4	1.1	11	31	3.4
11	6.3	1.4	2.4	8.2	7.4	8.3	12	3.3	1.1	78	15	3.5
12	2.5	1.4	2.1	5.8	6.8	16	11	3.3	1.1	54	8.6	3.2
13	1.9	1.3	4.1	5.7	6.0	12	9.7	3.9	1.3	185	5.8	3.0
14	2.0	1.3	32	4.7	72	9.1	8.9	4.4	1.7	64	4.1	2.8
15	1.3	1.3	12	4.4	21	7.5	8.4	3.7	2.6	25	3.3	2.7
16	1.1	1.2	7.1	e4.0	13	7.6	10	2.7	2.2	13	2.9	2.6
17	1.3	1.1	4.6	e3.7	7.3	12	11	2.8	4.7	8.6	2.7	2.7
18	1.5	1.0	4.0	e3.5	8.9	11	12	3.0	7.9	6.3	3.0	2.6
19	1.7	.92	3.0	4.0	45	9.9	15	2.9	11	5.8	2.6	2.6
20	2.8	.93	2.8	5.5	21	12	14	2.7	5.7	4.0	2.3	2.6
21	1.6	.94	e2.6	11	14	30	14	3.1	3.4	3.5	2.2	4.4
22	.92	.93	e2.4	e7.0	11	21	11	3.3	14	3.2	2.2	3.0
23	1.0	.93	2.2	4.4	8.2	16	9.4	3.7	4.4	2.1	2.3	2.8
24	.95	1.0	e2.1	e3.8	6.7	13	10	3.2	2.3	2.1	5.0	4.5
25	.81	11	e2.0	e3.4	5.5	11	21	3.7	2.5	1.9	3.4	15
26	.76	21	e1.9	e3.1	4.8	8.7	27	3.1	2.6	2.5	2.8	6.4
27	.77	6.8	e1.8	e3.0	4.9	8.0	19	8.2	7.0	1.6	2.9	2.6
28	.75	3.2	e1.7	e2.9	3.8	7.2	14	3.7	13	3.3	3.5	1.9
29	.77	2.3	e1.6	9.1	3.1	5.8	11	2.2	8.2	2.6	3.0	1.6
30	.72	1.8	e1.5	16	---	5.4	9.0	1.7	5.2	2.1	3.1	1.5
31	.68	---	e1.5	14	---	4.5	---	1.3	---	9.8	3.1	---
TOTAL	64.83	80.96	112.2	166.1	319.8	256.3	447.3	121.0	115.6	719.0	222.5	111.8
MEAN	2.09	2.70	3.62	5.36	11.0	8.27	14.9	3.90	3.85	23.2	7.18	3.73
MAX	13	21	32	16	72	30	74	8.2	14	185	54	15
MIN	.68	.91	1.5	1.3	2.9	1.6	3.7	1.3	1.0	1.6	2.0	1.5
CFSM	.34	.44	.58	.86	1.78	1.33	2.40	.63	.62	3.74	1.16	.60
IN.	.39	.49	.67	1.00	1.92	1.54	2.68	.73	.69	4.31	1.34	.67

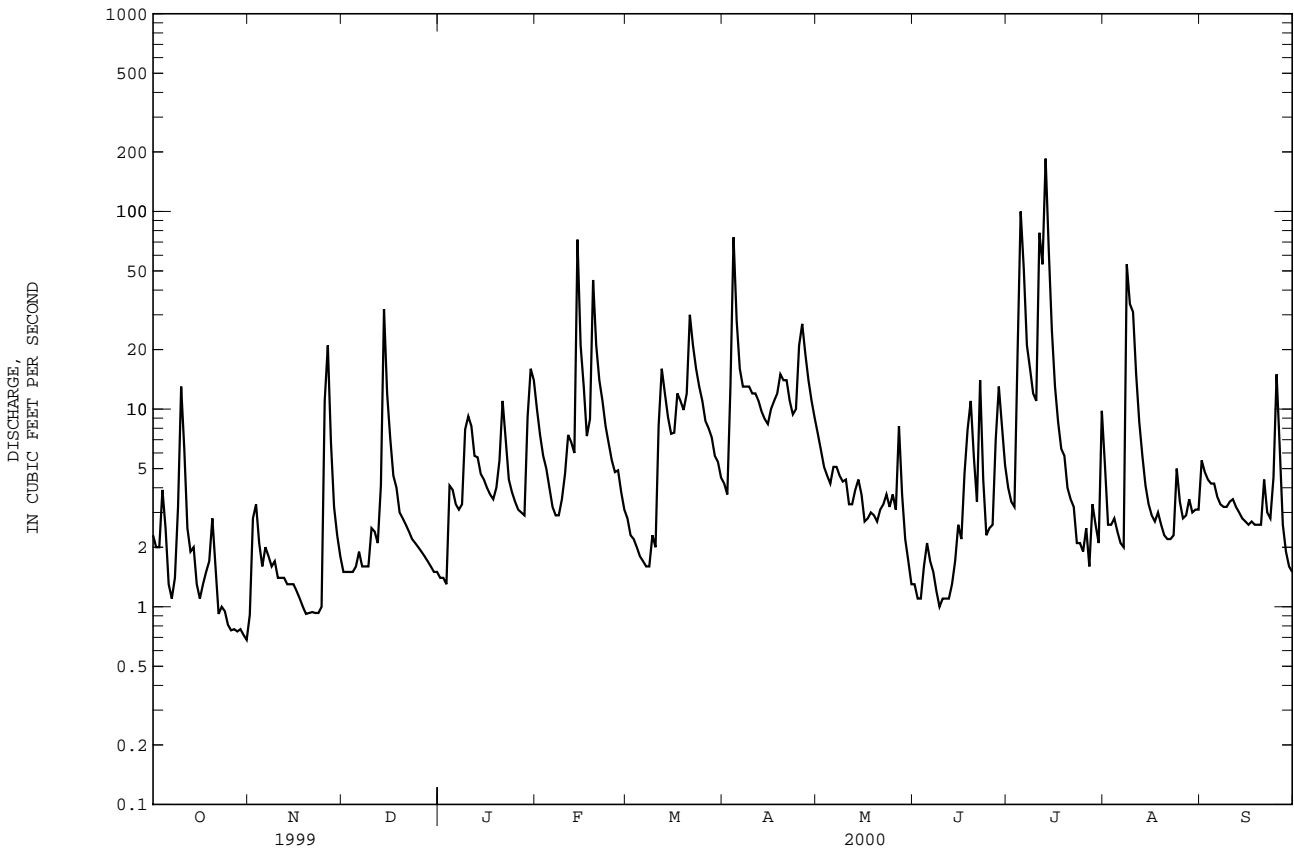
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2000, BY WATER YEAR (WY)

MEAN	3.89	6.38	7.92	14.2	13.0	18.2	13.1	11.0	7.74	3.79	2.81	2.14
MAX	28.0	31.0	18.8	42.6	34.0	53.6	30.7	47.7	23.7	23.2	10.6	5.75
(WY)	1990	1974	1979	1974	1990	1975	1998	1989	1998	2000	1989	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

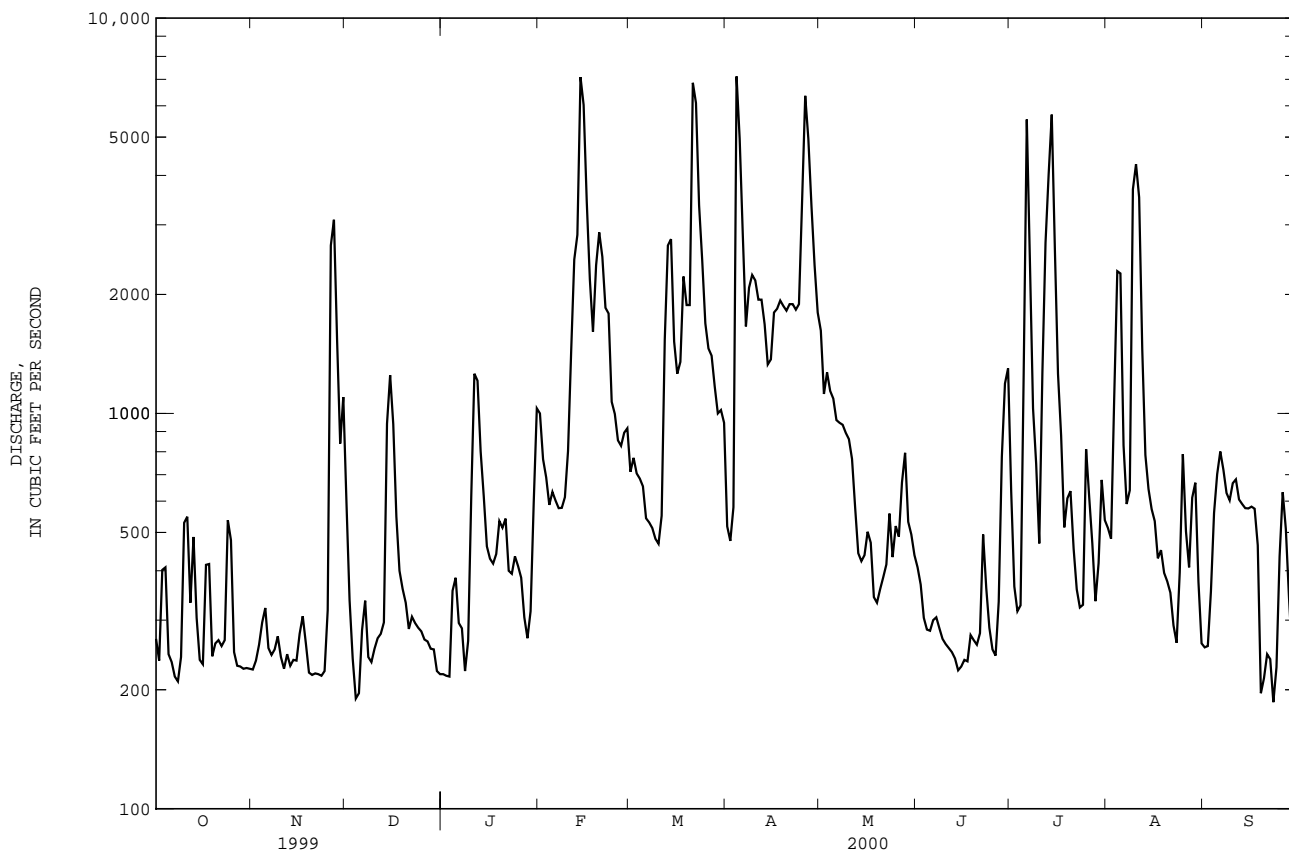
SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1974 - 2000	
ANNUAL TOTAL	2138.19		2737.39		8.41	
ANNUAL MEAN	5.86		7.48		17.2	
HIGHEST ANNUAL MEAN					5.30	
LOWEST ANNUAL MEAN					832	
HIGHEST DAILY MEAN	57	Mar 15	185	Jul 13	Oct 1 1982	
LOWEST DAILY MEAN	.68	Oct 31	.68	Oct 31	Aug 19 1982	
ANNUAL SEVEN-DAY MINIMUM	.75	Oct 25	.75	Oct 25	Sep 22 1981	
INSTANTANEOUS PEAK FLOW			600	Jul 5	Jun 1 1974	
INSTANTANEOUS PEAK STAGE			2.25	Jul 5	Apr 7 1977	
INSTANTANEOUS LOW FLOW					Aug 19 1982	
ANNUAL RUNOFF (CFSM)	.94		1.21		1.36	
ANNUAL RUNOFF (INCHES)	12.83		16.42		18.42	
10 PERCENT EXCEEDS	13		14		18	
50 PERCENT EXCEEDS	2.8		3.3		3.2	
90 PERCENT EXCEEDS	1.4		1.3		.48	

e Estimated



03209500 LEVISA FORK AT PIKEVILLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1969 - 2000	
ANNUAL TOTAL	329778		340898		1527	
ANNUAL MEAN	904		931		2459	
HIGHEST ANNUAL MEAN					1979	
LOWEST ANNUAL MEAN					522	
HIGHEST DAILY MEAN	7590	Mar 17	7120	Apr 4	69300	Apr 5 1977
LOWEST DAILY MEAN	177	Jun 22	186	Sep 23	66	Dec 3 1970
ANNUAL SEVEN-DAY MINIMUM	193	Jun 18	226	Nov 18	103	Oct 10 1968
INSTANTANEOUS PEAK FLOW			9340	Apr 4	85500	Jan 30 1957
INSTANTANEOUS PEAK STAGE			18.16	Apr 4	52.72	Jan 30 1957
INSTANTANEOUS LOW FLOW					66	Dec 3 1970
10 PERCENT EXCEEDS	2490		2230		3530	
50 PERCENT EXCEEDS	322		512		757	
90 PERCENT EXCEEDS	211		237		230	



BIG SANDY RIVER BASIN

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, 1,000 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 mi².

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. 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 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jul 5	2200	*2,190	*14.20	Jul 11	0500	1,760	13.11

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	6.5	5.3	13	e8.8	51	39	44	59	13	41	55	15
2	4.1	8.7	11	e8.6	39	35	41	52	13	32	30	17
3	4.5	17	10	11	33	32	68	44	13	27	28	17
4	10	11	10	15	34	30	509	39	12	100	25	25
5	20	7.1	10	18	32	27	273	34	14	687	22	22
6	6.2	6.7	12	15	29	25	190	31	15	553	19	14
7	4.4	5.9	9.7	14	30	22	145	28	12	168	21	12
8	3.8	5.6	8.5	14	31	20	169	25	8.8	99	100	12
9	6.5	5.0	8.0	27	37	20	169	23	6.8	69	259	12
10	77	4.3	12	45	48	20	149	21	6.2	55	257	11
11	52	4.0	14	38	80	50	134	19	5.6	869	139	13
12	14	3.8	12	30	94	182	127	19	5.3	556	81	11
13	9.3	3.7	16	28	86	138	113	18	5.4	631	57	11
14	13	4.1	306	22	739	114	106	18	4.7	372	43	9.9
15	10	4.3	112	18	244	95	99	16	6.5	185	32	9.5
16	7.1	3.9	54	e16	144	78	109	15	8.0	117	28	9.3
17	8.5	3.4	35	e14	100	116	135	15	9.0	82	25	10
18	8.9	3.2	27	e13	129	103	147	15	22	63	23	11
19	9.5	3.0	23	e12	601	96	148	15	135	62	22	9.8
20	16	3.2	20	e11	254	118	135	20	62	51	20	8.1
21	13	3.8	e17	20	161	367	128	16	30	44	20	9.6
22	10	4.7	e15	40	120	234	116	15	377	39	18	10
23	8.7	3.7	e14	18	95	159	109	14	70	31	17	10
24	10	3.3	e13	e15	78	123	111	15	37	32	24	10
25	8.4	27	e12	e14	67	102	210	14	27	31	20	93
26	7.5	266	e11	e13	58	85	250	14	36	27	16	58
27	4.9	74	e10	e12	55	79	167	46	69	24	15	22
28	4.6	33	e9.7	e11	49	73	121	35	205	23	25	15
29	4.2	21	e9.4	e10	42	62	92	21	107	29	16	13
30	3.7	15	e9.2	48	---	56	71	17	60	29	16	11
31	4.9	---	e9.0	68	---	49	---	14	---	53	15	---
TOTAL	371.2	564.7	852.5	647.4	3560	2749	4385	747	1395.3	5181	1488	511.2
MEAN	12.0	18.8	27.5	20.9	123	88.7	146	24.1	46.5	167	48.0	17.0
MAX	77	266	306	68	739	367	509	59	377	869	259	93
MIN	3.7	3.0	8.0	8.6	29	20	41	14	4.7	23	15	8.1
CFSM	.21	.33	.49	.37	2.18	1.58	2.60	.43	.83	2.97	.85	.30
IN.	.25	.37	.56	.43	2.35	1.82	2.90	.49	.92	3.42	.98	.34

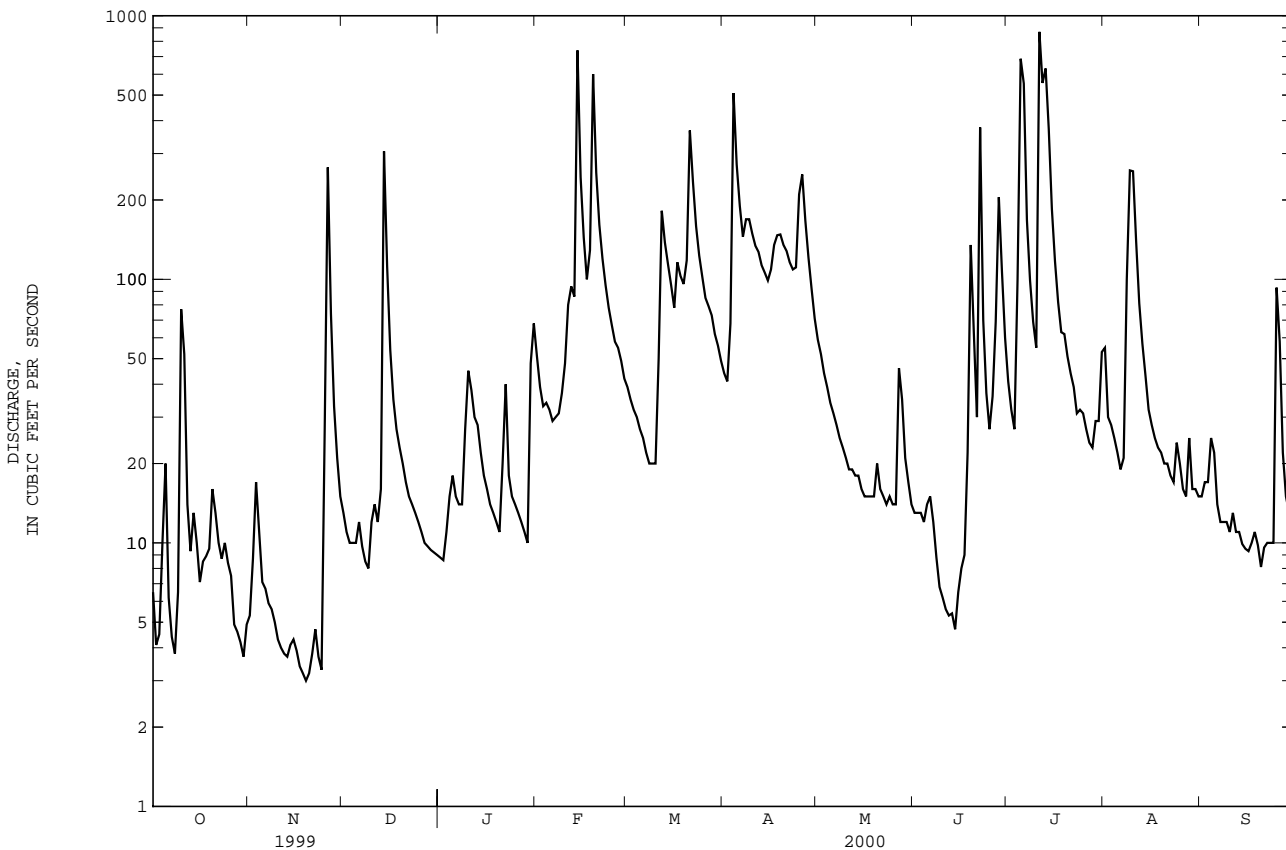
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2000, BY WATER YEAR (WY)

MEAN	17.6	37.5	73.8	107	137	163	117	72.9	39.2	27.5	17.4	15.7
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1941 - 2000	
ANNUAL TOTAL	14305.5		22452.3		68.7	
ANNUAL MEAN	39.2		61.3		135	
HIGHEST ANNUAL MEAN					24.5	
LOWEST ANNUAL MEAN					1974	
HIGHEST DAILY MEAN	491	Jan 9	869	Jul 11	3340	May 7 1984
LOWEST DAILY MEAN	2.6	Sep 25	3.0	Nov 19	.00	Oct 1 1941
ANNUAL SEVEN-DAY MINIMUM	3.5	Nov 15	3.5	Nov 15	.00	Oct 1 1941
INSTANTANEOUS PEAK FLOW			2190	Jul 5	7380	Mar 12 1963
INSTANTANEOUS PEAK STAGE			14.20	Jul 5	19.62	May 7 1984
INSTANTANEOUS LOW FLOW					.00	Oct 1 1941
ANNUAL RUNOFF (CFSM)	.70		1.09		1.22	
ANNUAL RUNOFF (INCHES)	9.45		14.84		16.59	
10 PERCENT EXCEEDS	109		140		156	
50 PERCENT EXCEEDS	16		22		23	
90 PERCENT EXCEEDS	4.6		6.5		2.1	

e Estimated



BIG SANDY RIVER BASIN

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 mi².

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. 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 good. Flow regulated 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

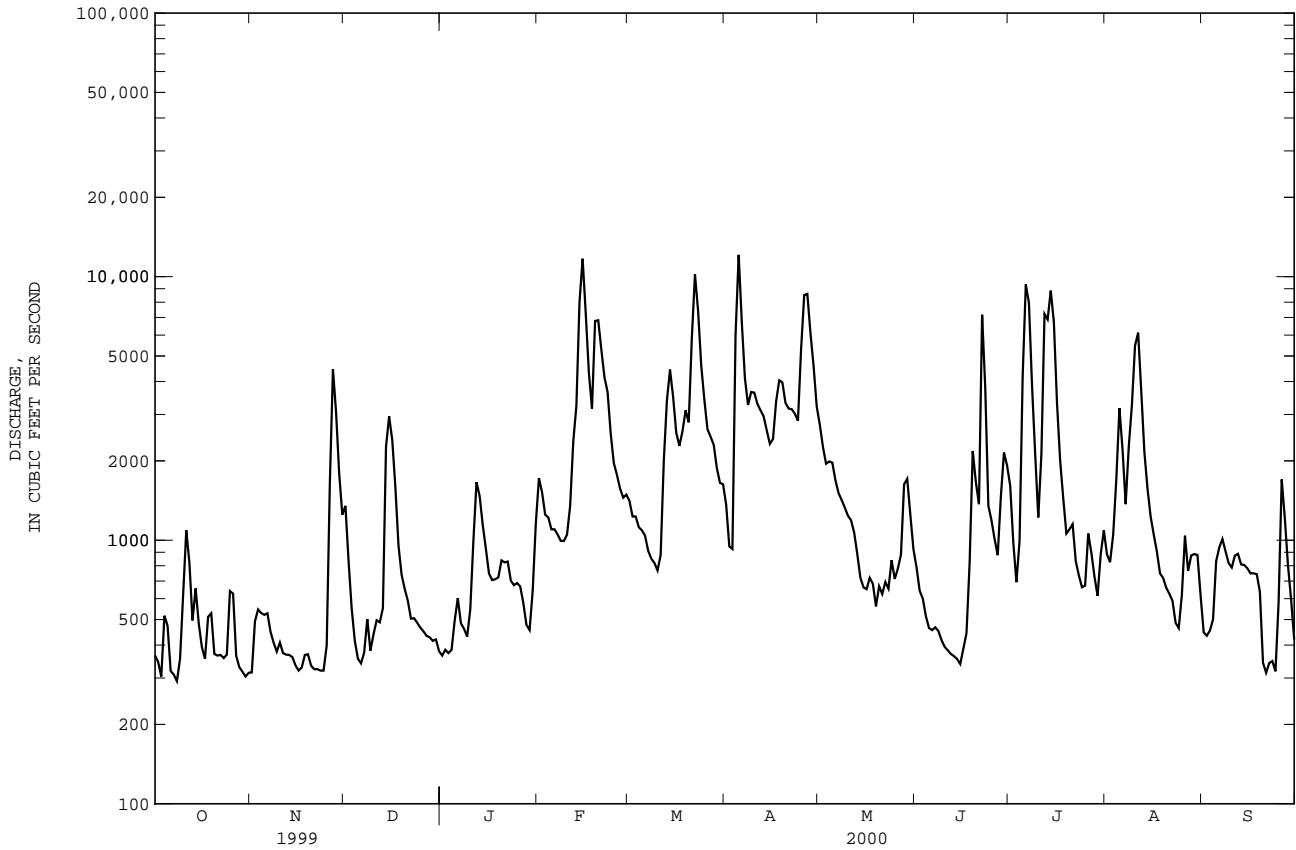
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	365	315	1350	365	1720	1410	1360	2740	787	1610	885	447
2	345	492	834	384	1520	1230	947	2260	643	977	825	434
3	304	546	550	373	1250	1230	926	1950	600	693	1050	454
4	517	529	415	384	1220	1120	6020	1990	514	995	1700	501
5	474	521	355	495	1100	1090	12100	1970	464	4200	3170	833
6	319	528	341	603	1100	1040	6720	1690	456	9340	2210	939
7	309	449	375	484	1050	912	4120	1510	467	7960	1370	1010
8	292	408	502	461	994	851	3260	1420	452	3860	2270	908
9	354	378	381	431	993	820	3650	1330	418	2130	3260	819
10	623	409	440	547	1050	768	3630	1240	394	1220	5470	788
11	1090	373	497	996	1350	878	3290	1190	382	2120	6130	874
12	822	368	488	1660	2370	1990	3110	1070	370	7220	3670	888
13	496	367	552	1470	3230	3380	2950	887	363	6880	2160	809
14	656	360	2260	1140	8020	4440	2610	721	354	8850	1570	805
15	483	335	2950	927	11700	3490	2320	662	339	6710	1230	782
16	393	320	2400	748	7260	2560	2420	652	388	3320	1050	748
17	355	329	1590	706	4320	2280	3360	720	444	2010	906	749
18	512	367	954	711	3160	2590	4040	683	817	1440	748	743
19	528	369	739	723	6790	3110	3970	561	2180	1060	719	638
20	370	334	653	838	6830	2800	3320	669	1660	1100	660	343
21	365	324	589	824	5290	5880	3160	625	1370	1150	626	314
22	367	324	504	830	4150	10200	3140	694	7170	834	589	342
23	357	320	506	702	3650	7420	3020	655	3800	735	486	348
24	368	320	486	675	2540	4610	2840	840	1350	663	464	318
25	641	399	466	688	1960	3420	5320	713	1190	672	620	581
26	627	1630	451	668	1770	2640	8520	780	1010	1060	1040	1700
27	364	4450	434	578	1570	2470	8600	882	877	897	765	1210
28	330	3060	428	477	1450	2300	6100	1630	1460	728	875	805
29	317	1790	415	456	1490	1880	4580	1710	2150	615	886	597
30	304	1250	420	644	---	1650	3220	1250	1920	884	879	420
31	314	---	379	1160	---	1630	---	923	---	1090	618	---
TOTAL	13961	21964	23704	22148	90897	82089	122623	36617	34789	83023	48901	21147
MEAN	450	732	765	714	3134	2648	4087	1181	1160	2678	1577	705
MAX	1090	4450	2950	1660	11700	10200	12100	2740	7170	9340	6130	1700
MIN	292	315	341	365	993	768	926	561	339	615	464	314

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2000, BY WATER YEAR (WY)

MEAN	1112	1793	2710	3927	4844	5200	4096	3358	1733	942	792	692
MAX	6560	4908	8870	12030	11000	13160	10040	9664	5426	2678	1837	2054
(WY)	1990	1978	1973	1974	1994	1975	1987	1984	1998	2000	1977	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1969 - 2000	
ANNUAL TOTAL	560374		601863		2589	
ANNUAL MEAN	1535		1644		4234	
HIGHEST ANNUAL MEAN					830 1975	
LOWEST ANNUAL MEAN					42000 1988	
HIGHEST DAILY MEAN	11700	Mar 4	12100	Apr 5	Apr 6 1977	
LOWEST DAILY MEAN	257	Sep 22	292	Oct 8	Oct 1 1968	
ANNUAL SEVEN-DAY MINIMUM	268	Sep 21	337	Nov 18	Aug 27 1969	
INSTANTANEOUS PEAK FLOW			13400	Apr 5	69700 Jan 31 1957	
INSTANTANEOUS PEAK STAGE			17.36	Apr 5	45.92 Jan 31 1957	
INSTANTANEOUS LOW FLOW					98 Oct 1 1968	
10 PERCENT EXCEEDS	4460		3820		6210	
50 PERCENT EXCEEDS	521		878		1230	
90 PERCENT EXCEEDS	296		366		368	



LITTLE SANDY RIVER BASIN

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 mi².

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. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

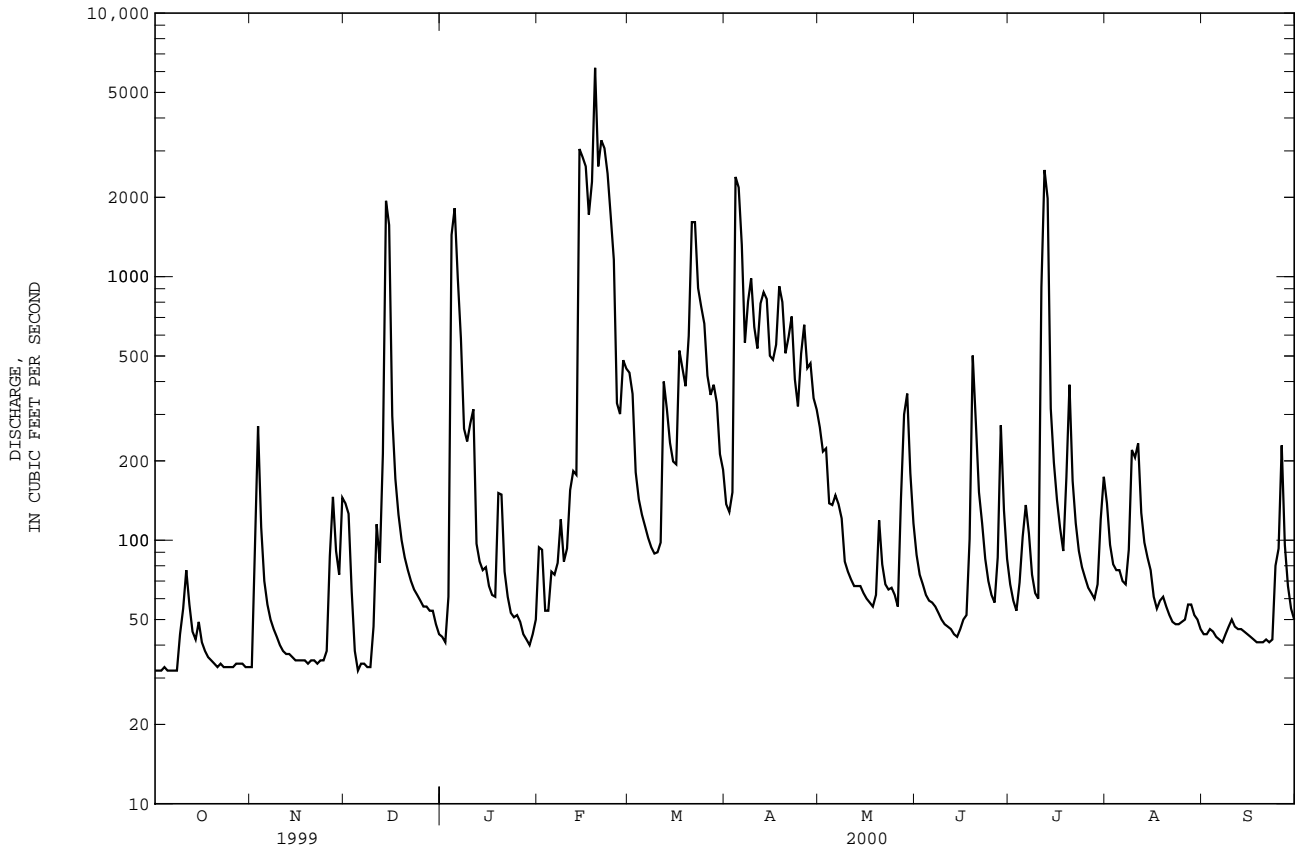
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	33	138	43	94	432	137	268	88	68	138	44
2	32	94	126	41	92	359	128	217	74	59	96	44
3	32	271	64	61	54	181	152	223	68	54	81	46
4	33	112	38	1440	54	143	2390	138	62	69	77	45
5	32	70	32	1820	76	125	2180	136	59	103	77	43
6	32	57	34	985	74	113	1320	148	58	136	70	42
7	32	50	34	582	82	102	562	137	56	106	68	41
8	32	46	33	265	120	94	805	121	53	74	92	44
9	44	43	33	237	83	89	985	83	50	63	220	47
10	55	40	47	277	93	90	644	76	48	60	206	50
11	77	38	115	314	155	98	534	71	47	911	233	47
12	57	37	82	97	183	400	791	67	46	2540	127	46
13	45	37	213	83	177	314	873	67	44	1980	98	46
14	42	36	1940	77	3050	234	822	67	43	316	86	45
15	49	35	1570	79	2840	199	501	63	46	197	77	44
16	41	35	296	67	2620	194	484	60	50	142	61	43
17	38	35	171	62	1720	524	552	58	52	111	55	42
18	36	35	125	61	2290	448	920	56	101	91	59	41
19	35	34	100	151	6200	384	801	62	502	173	61	41
20	34	35	86	149	2620	596	512	119	278	389	56	41
21	33	35	77	76	3290	1610	591	81	152	168	52	42
22	34	34	70	61	3070	1610	706	68	116	116	49	41
23	33	35	65	53	2460	905	408	65	85	91	48	42
24	33	35	62	51	1700	769	322	66	70	79	48	80
25	33	38	59	52	1160	663	510	62	62	72	49	93
26	33	87	56	49	331	421	657	56	58	66	50	229
27	34	146	56	44	301	356	450	144	86	63	57	96
28	34	91	54	42	482	389	469	300	273	60	57	67
29	34	74	54	40	448	332	346	360	130	68	52	55
30	33	145	48	44	---	212	313	180	85	120	50	50
31	33	---	44	50	---	185	---	116	---	174	46	---
TOTAL	1177	1893	5922	7453	35919	12571	20865	3735	2942	8719	2596	1677
MEAN	38.0	63.1	191	240	1239	406	696	120	98.1	281	83.7	55.9
MAX	77	271	1940	1820	6200	1610	2390	360	502	2540	233	229
MIN	32	33	32	40	54	89	128	56	43	54	46	41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2000, BY WATER YEAR (WY)

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
MEAN	163	333	610	741	938	1015	672	627	295	174	107	116
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	113	62.1	34.4	33.6	34.7	30.4
(WY)	1981	1982	1982	1981	1969	1969	1986	1976	1999	1999	1988	1998

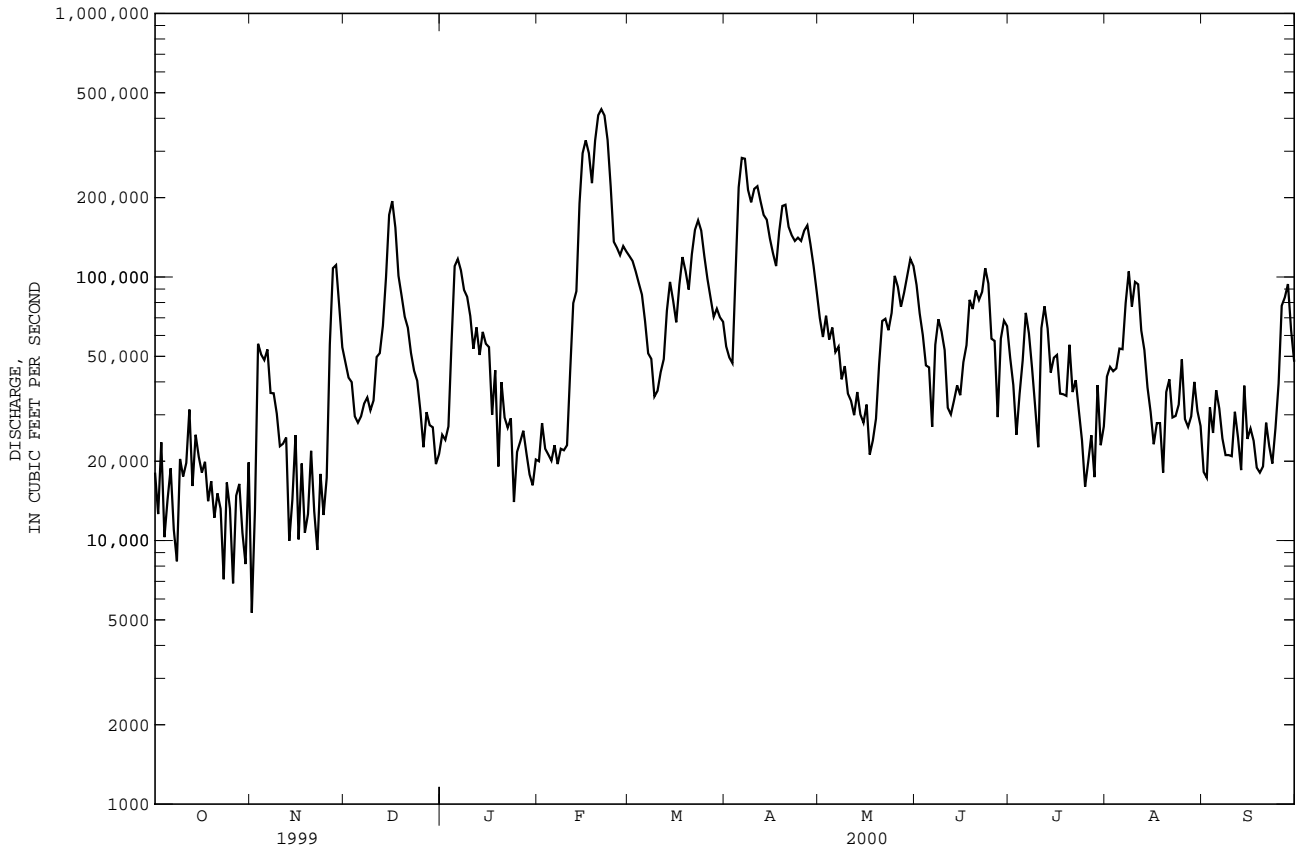
03216500 LITTLE SANDY RIVER AT GRAYSON, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1969 - 2000	
ANNUAL TOTAL	97342		105469		481	
ANNUAL MEAN	267		288		838	
HIGHEST ANNUAL MEAN					116	
LOWEST ANNUAL MEAN					1969	
HIGHEST DAILY MEAN	3030	Jan 24	6200	Feb 19	14600	Mar 2 1997
LOWEST DAILY MEAN	30	Jun 13	32	Oct 1	5.8	Oct 1 1968
ANNUAL SEVEN-DAY MINIMUM	31	Sep 22	32	Oct 1	18	Nov 1 1968
INSTANTANEOUS PEAK FLOW			7310	Feb 19	24500	Sep 22 1950
INSTANTANEOUS PEAK STAGE			22.41	Feb 19	30.57	Mar 2 1997
INSTANTANEOUS LOW FLOW					1.5	Oct 12 1953
10 PERCENT EXCEEDS	866		659		1370	
50 PERCENT EXCEEDS	49		77		166	
90 PERCENT EXCEEDS	32		35		39	



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

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1969 - 2000	
ANNUAL TOTAL	20686250		23940890		88980	
ANNUAL MEAN	56670		65410		120100	
HIGHEST ANNUAL MEAN					49760	
LOWEST ANNUAL MEAN					540000	
HIGHEST DAILY MEAN	324000	Jan 26	433000	Feb 21	540000	Jan 12 1974
LOWEST DAILY MEAN	3920	Jun 11	5320	Nov 1	3920	Jun 11 1999
ANNUAL SEVEN-DAY MINIMUM	7740	Sep 22	11700	Oct 26	7740	Sep 22 1999
INSTANTANEOUS PEAK FLOW			438000		520000	
INSTANTANEOUS PEAK STAGE			54.50		54.50	
10 PERCENT EXCEEDS	144000		138000		202000	
50 PERCENT EXCEEDS	30100		44200		62100	
90 PERCENT EXCEEDS	8360		17700		17000	



OHIO RIVER MAIN STEM

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 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS (50624)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)			
DATE			CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS TOT IT FIELD (MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
NOV 09...	1700	ENVIRONMENTAL	39700	.074	545	7.8	14.1	2.4	8.4	83	160			
DEC 09...	1550	ENVIRONMENTAL	37400	.107	382	7.5	9.6	3.6	10.1	90	130			
MAR 16...	1630	ENVIRONMENTAL	75600	.057	280	8.1	9.7	17	11.4	>100	91			
MAR 16...	1640	REPLICATE	--	.057	--	--	--	20	--	--	91			
APR 04...	1500	ENVIRONMENTAL	123000	.057	343	7.7	12.3	22	10.7	102	120			
APR 04...	1508	FIELD BLANK	--	--	--	--	--	--	--	--	--			
APR 17...	1540	ENVIRONMENTAL	123000	.086	252	7.4	11.1	20	11.5	107	91			
MAY 09...	1500	ENVIRONMENTAL	63000	.046	298	7.6	19.5	2.9	9.6	107	110			
MAY 25...	1530	ENVIRONMENTAL	111000	.049	396	7.2	22.4	5.2	8.0	95	130			
MAY 25...	1538	FIELD BLANK	--	--	--	--	--	--	--	--	M			
JUN 07...	1030	ENVIRONMENTAL	66000	.098	351	7.3	21.5	6.3	7.9	91	120			
JUN 22...	1620	ENVIRONMENTAL	104000	.088	304	7.1	25.7	27	6.0	78	120			
JUN 22...	1628	FIELD BLANK	--	--	--	--	--	--	--	--	--			
JUL 20...	1000	ENVIRONMENTAL	64800	.095	353	7.2	25.9	24	6.7	84	110			
JUL 20...	1010	REPLICATE	--	.095	--	--	--	25	--	--	120			
AUG 09...	1050	ENVIRONMENTAL	87100	.072	445	7.2	27.0	4.0	7.9	98	140			

03216600 OHIO RIVER AT GREENUP DAM, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NITRO- GEN, DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04) (00660)
NOV												
09...	1.9	.47	.38	.022	1.31	.239	1.29	.62	.71	.074	.064	.14
DEC												
09...	1.3	.31	.22	.017	.997	.085	.980	.31	.40	.043	.027	--
MAR												
16...	1.1	.28	.15	.012	.865	.087	.853	.24	.37	.049	.013	.03
16...	1.1	.34	.15	.012	.867	.086	.855	.23	.43	.049	.011	.02
APR												
04...	1.2	.35	.16	.020	.965	.083	.945	.24	.44	.078	.015	.05
04...	--	--	--	--	--	--	--	--	--	--	--	--
17...	1.1	.47	.21	<.010	.885	.033	--	.24	.51	.098	.020	.04
MAY												
09...	.78	--	--	.011	.639	<.020	.628	.14	.22	.021	E.004	M
25...	1.0	.30	.18	.020	.794	.062	.774	.24	.37	.068	.017	.03
25...	--	--	--	<.001	<.005	.004	--	--	--	--	--	--
JUN												
07...	1.5	.31	.19	.029	1.23	.050	1.20	.24	.37	.052	.028	.06
22...	1.2	.36	.23	.038	.973	.037	.935	.27	.40	.076	.036	.08
22...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
20...	1.1	.33	.24	.040	.776	.038	.736	.28	.37	.058	.028	.06
20...	1.1	.34	.28	.041	.833	.037	.792	.31	.38	.056	.027	.06
AUG												
09...	1.4	--	--	.073	1.11	<.020	1.03	.25	.42	.080	.026	.06
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	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)
NOV												
09...	.31	5.7	.07	.046	--	--	<2	--	--	112	--	--
DEC												
09...	.11	4.3	.06	<.001	4.5	<1.0	<2	43	<1.0	56	<1.0	<.80
MAR												
16...	.11	3.8	.04	.009	--	--	<2	--	--	23	--	--
16...	.11	3.8	.04	.008	--	--	<2	--	--	25	--	--
APR												
04...	.11	4.2	.07	.015	--	--	<2	--	--	28	--	--
04...	--	--	--	--	--	--	--	--	--	--	--	--
17...	.04	--	--	.013	--	--	<2	--	--	27	--	--
MAY												
09...	--	2.8	.04	.001	20	<1.0	<2	37	<1.0	20	<1.0	<.80
25...	.08	3.4	.07	.011	--	--	<2	--	--	47	--	--
25...	.01	--	--	<.001	<.30	<.20	--	<.20	<.20	<2.0	<.30	<.20
JUN												
07...	.06	5.3	.10	.020	--	--	<2	--	--	41	--	--
22...	.05	4.1	.12	.025	18	<1.0	E1	44	<1.0	39	<1.0	<.80
22...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
20...	.05	3.3	.13	.019	--	--	<2	--	--	37	--	--
20...	.05	3.5	.13	.019	--	--	<2	--	--	45	--	--
AUG												
09...	--	4.6	.24	.018	10	<1.0	<2	51	<1.0	58	<1.0	.83

OHIO RIVER MAIN STEM

03216600 OHIO RIVER AT GREENUP DAM, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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)	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)	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)
NOV 09...	--	--	<10	--	11	--	--	--	<2	--	309	--
DEC 09...	<1.0	2.4	13	<1.0	6	18	3.3	2.3	<2	<1.0	206	--
MAR 16...	--	--	28	--	5	--	--	--	<2	--	158	--
16...	--	--	25	--	6	--	--	--	<2	--	160	--
APR 04...	--	--	18	--	6	--	--	--	<2	--	178	--
04...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	12	--	E4	--	--	--	<2	--	134	--
MAY 09...	<1.0	1.5	11	<1.0	5	27	1.4	2.2	<2	<1.0	170	--
25...	--	--	<10	--	6	--	--	--	<2	--	209	--
25...	<.20	.20	<3.0	<.30	--	<.10	<.20	<.50	--	<.20	<.10	<.10
JUN 07...	--	--	E6.1	--	6	--	--	--	<2	--	193	--
22...	<1.0	1.7	E9.8	<1.0	7	2.3	2.2	1.6	<2	<1.0	198	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	<10	--	8	--	--	--	<2	--	179	--
20...	--	--	E7.3	--	7	--	--	--	<2	--	195	--
AUG 09...	<1.0	3.1	<10	<1.0	9	13	3.9	<1.0	<2	<1.0	212	--

DATE	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO- CHLOR, WATER, FLTRD REC (UG/L) (49260)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)
NOV 09...	<10	--	--	3.5	.60	<.002	<.0020	.031	<.0020	<.0020	<.0040
DEC 09...	<10	2.0	<1.0	3.7	.30	<.002	<.0020	.010	<.0020	<.0020	E.0034
MAR 16...	<10	--	--	2.2	.80	<.002	<.0020	<.001	<.0020	<.0020	<.0040
16...	<10	--	--	2.2	.90	<.002	<.0020	.007	<.0020	<.0020	<.0040
APR 04...	<10	--	--	2.1	1.4	<.002	<.0020	.012	<.0020	<.0020	E.0027
04...	--	--	--	E.24	<.20	<.002	<.0020	<.001	<.0020	<.0020	<.0040
17...	<10	--	--	2.8	.89	<.002	<.0040	.019	<.0020	<.0020	<.0040
MAY 09...	<10	5.4	<1.0	2.0	.37	<.002	<.0020	.018	<.0020	<.0020	<.0040
25...	<10	--	--	2.1	.82	<.002	.0074	.040	<.0020	<.0020	<.0040
25...	--	4.8	<.20	--	--	--	--	--	--	--	--
JUN 07...	<10	--	--	3.2	.40	.013	.126	1.18	<.0020	<.0020	E.0021
22...	E6	3.7	<1.0	3.1	.57	<.002	.0500	.392	<.0020	<.0020	<.0040
22...	--	--	--	.42	<.20	--	--	--	--	--	--
JUL 20...	<10	--	--	3.3	.41	<.002	<.0100	.136	<.0020	<.0020	<.0040
20...	<10	--	--	3.1	.38	<.002	<.0100	.163	<.0020	<.0020	<.0040
AUG 09...	<10	4.5	<1.0	2.8	.88	<.002	<.0020	.136	<.0020	<.0020	<.0040

03216600 OHIO RIVER AT GREENUP DAM, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DEETHYL										
	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)
NOV											
09...	<.0040	E.0073	.007	<.001	<.0030	<.004	<.005	<.004	.008	<.0060	<.004
DEC											
09...	<.0040	E.0061	E.003	<.001	<.0030	<.004	<.005	<.004	.008	<.0060	<.004
MAR											
16...	<.0040	<.0020	<.002	<.001	<.0030	<.004	<.005	<.004	.006	<.0060	<.004
16...	<.0040	E.0049	<.002	<.001	<.0030	<.004	<.005	<.004	.007	<.0060	<.004
APR											
04...	<.0040	E.0069	<.002	<.001	<.0030	<.004	<.005	<.004	.009	<.0060	<.004
04...	<.0040	<.0020	<.002	<.001	<.0030	<.004	<.005	<.004	<.002	<.0060	<.004
17...	<.0040	E.0110	.006	<.001	<.0030	<.004	<.005	<.004	.015	<.0060	<.004
MAY											
09...	<.0040	E.0063	<.002	<.001	<.0030	<.004	<.005	<.004	.013	<.0060	<.004
25...	<.0040	E.0089	E.003	<.001	<.0030	<.004	<.005	<.004	.013	<.0060	<.004
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
07...	.0164	E.0995	.006	<.001	<.0030	<.004	<.005	.007	.290	<.0060	<.004
22...	<.0040	E.0555	.006	<.001	<.0030	<.004	<.005	<.004	.089	<.0060	<.004
22...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	<.0040	E.0212	.005	<.001	<.0030	<.004	<.005	<.004	.033	<.0060	<.004
20...	<.0040	E.0273	.006	<.001	<.0030	<.004	<.005	<.004	.040	<.0060	<.004
AUG											
09...	.0065	E.0309	E.004	<.001	<.0030	<.004	<.005	<.004	.024	<.0060	<.004
DATE	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)
	NOV										
09...	<.0070	E.0091	.0092	<.0020	<.0030	E.0116	<.0020	<.0030	<.0170	<.0040	<.0040
DEC											
09...	<.0070	E.0061	.0061	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
MAR											
16...	<.0070	<.0180	<.0050	<.0020	E.0348	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
16...	<.0070	<.0180	<.0050	<.0020	E.0396	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
APR											
04...	<.0070	E.0068	.0087	<.0020	E.0110	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
04...	<.0070	<.0180	<.0050	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
17...	<.0070	E.0077	.0153	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
MAY											
09...	<.0070	E.0092	.0108	<.0020	E.0053	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
25...	<.0070	E.0092	.0139	<.0020	<.0030	<.0150	<.0020	<.0030	<.0170	<.0040	<.0040
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
07...	<.0070	E.0110	.202	<.0020	E.0066	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
22...	<.0070	E.0178	.0850	<.0020	E.0066	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
22...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	<.0070	E.0136	.0295	<.0020	E.0068	<.0300	<.0020	<.0030	<.0170	<.0040	<.0040
20...	<.0070	E.0156	.0345	<.0020	E.0074	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
AUG											
09...	<.0070	.0207	.0275	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040

OHIO RIVER MAIN STEM

03216600 OHIO RIVER AT GREENUP DAM, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
NOV											
09...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
DEC											
09...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
MAR											
16...	<.0030	<.0020	<.0020	<.0200	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
16...	<.0030	<.0020	<.0020	<.0300	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
APR											
04...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
04...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
17...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
MAY											
09...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
25...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
07...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
22...	<.0030	.0239	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
22...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	<.0030	<.0150	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
20...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
AUG											
09...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
DATE	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV											
09...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	8	858	98
DEC											
09...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	14	1410	98
MAR											
16...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	34	6940	98
16...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	--	--	--
APR											
04...	<.0040	<.0130	E.0194	<.0070	<.0130	<.0010	<.0020	<.0020	56	18600	97
04...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	--	--	--
17...	<.0040	<.0130	E.0082	<.0070	<.0130	<.0010	<.0020	<.0020	53	17600	97
MAY											
09...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	7	1190	93
25...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	50	15000	96
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
07...	<.0040	<.0130	E.0052	<.0070	<.0130	<.0010	<.0020	<.0020	24	4280	98
22...	<.0040	<.0130	.0135	<.0070	<.0130	<.0010	<.0020	<.0020	35	9830	100
22...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	E.0013	<.0020	46	8050	99
20...	<.0040	<.0130	E.0097	<.0070	<.0130	<.0010	<.0020	<.0020	--	--	--
AUG											
09...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	61	14300	99



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 mi².

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 ft³/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. Army Corps of Engineers, Huntington District.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 14	2300	3,870	13.93	Feb 19	0430	*18,400	*21.90

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	.25	1.5	38	21	e34	170	165	155	63	47	142	62
2	.19	16	29	21	e36	158	150	140	49	35	91	53
3	.19	176	24	23	e32	139	165	128	39	28	81	48
4	.32	169	19	603	e33	123	1600	112	33	28	176	57
5	.35	99	15	889	e29	109	1250	97	29	29	379	54
6	.28	62	13	353	e25	94	591	88	25	43	162	59
7	.26	41	13	228	e28	81	426	79	21	91	94	52
8	.26	30	12	173	e35	72	446	71	17	61	68	46
9	1.4	24	11	138	e39	67	741	64	15	41	175	42
10	3.6	20	47	116	e58	61	501	55	13	34	230	38
11	17	15	195	96	e96	65	400	47	12	286	277	62
12	45	11	167	81	e137	199	453	43	10	732	174	68
13	56	9.7	153	70	163	229	457	40	9.3	348	107	61
14	42	7.7	1870	60	3230	227	378	38	7.1	175	73	62
15	33	7.4	1060	52	1990	195	329	34	7.1	141	56	93
16	30	6.9	327	47	552	221	292	32	9.0	116	68	78
17	20	6.3	197	42	358	1310	273	30	12	78	83	66
18	12	5.7	142	38	2000	783	388	27	197	58	78	55
19	10	5.1	104	e35	12100	632	376	30	471	61	74	49
20	8.5	5.0	81	e33	e3400	1150	316	50	334	277	81	44
21	7.6	4.7	64	e32	e1800	1920	705	87	207	228	84	40
22	5.5	4.7	52	e30	e1000	1200	658	71	157	123	72	37
23	3.2	4.5	44	e29	e600	632	480	51	103	79	66	32
24	1.1	4.1	38	e27	e430	453	383	41	69	59	62	50
25	1.4	4.9	34	e26	e320	368	338	35	52	47	60	150
26	1.4	14	32	e25	e250	304	322	31	44	38	56	603
27	.41	63	28	e24	e210	267	281	165	40	33	82	324
28	.13	80	26	e23	e200	257	244	266	53	29	81	166
29	.50	79	25	e22	e185	249	215	191	83	28	82	96
30	.81	53	23	e25	---	219	186	159	70	37	93	64
31	.95	---	22	e31	---	189	---	87	---	149	73	---
TOTAL	303.60	1030.2	4905	3413	29370	12143	13509	2544	2250.5	3559	3480	2711
MEAN	9.79	34.3	158	110	1013	392	450	82.1	75.0	115	112	90.4
MAX	56	176	1870	889	12100	1920	1600	266	471	732	379	603
MIN	.13	1.5	11	21	25	61	150	27	7.1	28	56	32
CFSM	.04	.14	.65	.45	4.18	1.62	1.86	.34	.31	.47	.46	.37
IN.	.05	.16	.75	.52	4.51	1.87	2.08	.39	.35	.55	.53	.42

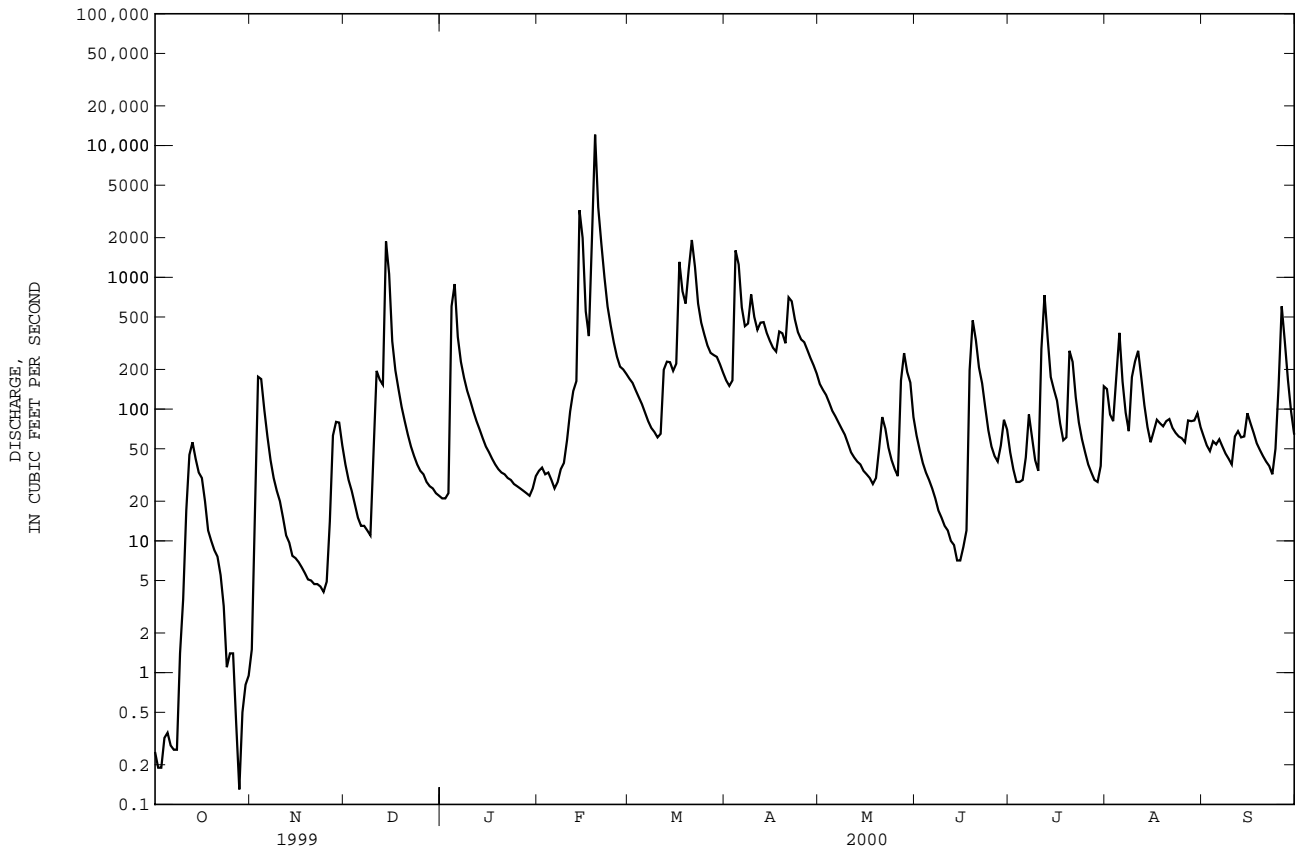
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)
MEAN	55.7	150	378	482	616	693	512	384	178	115	80.9	66.5
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL TOTAL	52413.90		79218.30		308	
ANNUAL MEAN	144		216		589	
HIGHEST ANNUAL MEAN					1979	
LOWEST ANNUAL MEAN					67.5	
HIGHEST DAILY MEAN	1990	Jan 24	12100	Feb 19	25800	Mar 2 1997
LOWEST DAILY MEAN	.09	Aug 22	.13	Oct 28	.00	Aug 24 1952
ANNUAL SEVEN-DAY MINIMUM	.12	Sep 21	.26	Oct 1	.00	Sep 17 1955
INSTANTANEOUS PEAK FLOW			18400	Feb 19	34400	Mar 2 1997
INSTANTANEOUS PEAK STAGE			21.90	Feb 19	23.65	Mar 2 1997
INSTANTANEOUS LOW FLOW					.00	Aug 24 1952
ANNUAL RUNOFF (CFSM)	.59		.89		1.27	
ANNUAL RUNOFF (INCHES)	8.06		12.18		17.28	
10 PERCENT EXCEEDS	421		427		695	
50 PERCENT EXCEEDS	24		62		91	
90 PERCENT EXCEEDS	.34		8.3		4.8	

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 mi².

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

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.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 18	2330	*23,100	*23.24	Feb 19	1130	11,100	17.51

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	10	5.6	e18	e113	122	101	e42	7.6	16	24
2	.00	.12	9.9	6.1	e19	e94	115	101	e28	3.9	15	22
3	.00	.39	9.5	10	e21	e76	165	e96	e21	2.2	19	20
4	.00	2.2	9.1	768	e23	e64	1690	e106	e16	1.8	12	20
5	.00	8.3	8.8	527	e25	e54	1110	e115	e13	2.5	8.6	29
6	.00	8.6	8.8	196	28	e47	622	e102	e10	25	6.7	28
7	.00	8.7	8.8	107	31	e40	418	e92	e12	23	9.5	23
8	.00	8.6	8.9	71	34	e37	985	e79	1.4	10	12	21
9	.00	8.6	9.0	54	38	e33	1170	e68	2.0	5.3	14	20
10	.00	8.1	12	44	46	e28	664	e60	3.2	2.9	26	18
11	.00	6.2	28	39	79	e25	462	e54	3.7	227	64	21
12	.00	6.3	17	35	118	e23	778	e48	4.5	410	29	29
13	.00	5.7	12	e31	148	e22	659	e44	4.3	67	15	27
14	.00	5.6	799	e30	3820	e78	477	e39	3.8	21	9.8	31
15	.00	5.8	310	e29	997	e250	369	e46	4.7	12	8.1	40
16	.00	5.8	53	e27	433	e600	307	e50	5.9	7.9	6.7	37
17	.00	5.8	21	e26	258	e1100	338	e43	8.2	4.8	6.3	32
18	.00	5.7	13	e25	4270	e800	823	e35	170	2.8	7.1	28
19	.00	5.6	8.9	e24	e20600	e1500	611	e39	535	4.2	6.9	25
20	.00	5.8	6.6	e23	e3580	e2400	458	e44	147	15	14	24
21	.00	6.1	5.8	e23	e2100	e3000	984	e50	51	17	22	24
22	.00	6.1	4.9	e22	e1250	e1300	1010	e43	29	8.4	17	21
23	.00	6.0	4.2	e22	e740	e800	715	e37	13	4.6	16	20
24	.00	5.9	3.8	e21	e480	e470	493	e32	6.6	2.5	14	36
25	.00	6.2	3.8	e23	e325	308	392	e36	3.9	1.4	13	171
26	.00	7.6	4.3	28	e240	235	309	e47	2.8	.84	20	830
27	.00	7.8	4.6	31	e182	189	238	e62	7.3	.53	28	270
28	.00	7.7	4.6	27	e145	197	188	e80	29	.39	48	96
29	.00	8.5	4.3	e23	e129	192	152	e115	32	.50	64	57
30	.00	11	4.6	e21	---	162	121	e90	14	1.3	e125	42
31	.00	---	5.4	e19	---	142	---	e61	---	6.3	29	---
TOTAL	0.00	184.81	1413.6	2337.7	40177	14379	16945	2015	1224.3	899.66	701.7	2086
MEAN	.000	6.16	45.6	75.4	1385	464	565	65.0	40.8	29.0	22.6	69.5
MAX	.00	11	799	768	20600	3000	1690	115	535	410	125	830
MIN	.00	.00	3.8	5.6	18	22	115	32	1.4	.39	6.3	18

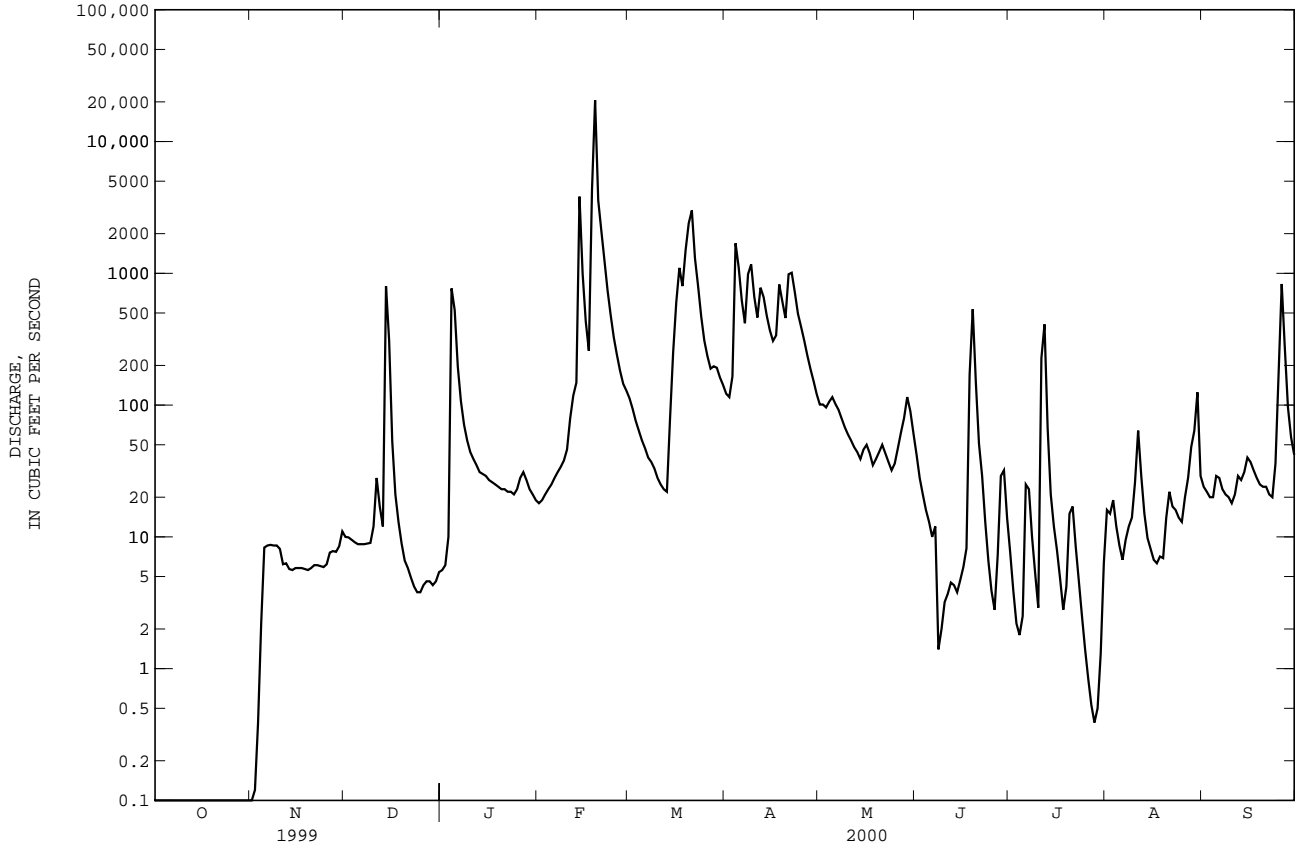
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2000, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	29.3	111	234	574	511	813	426	448	246	77.7	64.3	6.89						
MAX (WY)	130	340	468	1025	1070	2242	743	1187	800	161	189	23.0						
MIN (WY)	1996	1994	1997	1994	1998	1997	1998	1996	1998	1996	1995	1995						
MIN (WY)	.45	2.20	58.6	295	293	345	117	4.71	3.84	1.90	4.61	.98						
MIN (WY)	1998	1998	1999	1992	1995	1995	1999	1999	1999	1999	1997	1999						

03237250 KINNICONICK CREEK AT TANNERY, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1992 - 2000	
ANNUAL TOTAL	49486.19		82363.77		294	
ANNUAL MEAN	136		225		408	
HIGHEST ANNUAL MEAN					137	
LOWEST ANNUAL MEAN					1999	
HIGHEST DAILY MEAN	1960	Jan 18	20600	Feb 19	20000	Mar 2 1997
LOWEST DAILY MEAN	.00	May 22	.00	Oct 1	.00	May 22 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 22	.00	Oct 1	.00	Sep 22 1999
INSTANTANEOUS PEAK FLOW			23100		45600	
INSTANTANEOUS PEAK STAGE			23.24		28.04	
10 PERCENT EXCEEDS	524		478	Feb 18	695	Mar 2 1997
50 PERCENT EXCEEDS	5.8		23		88	
90 PERCENT EXCEEDS	.00		.52		1.3	

e Estimated



FOUR MILE CREEK BASIN

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 mi².

PERIOD OF RECORD.--May 1999 to current year.

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

REMARKS.--1999: Records fair. 2000: Records fair except for those estimated, which are poor.

COOPERATION.--Sanitation District No. 1.

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	---	---	---	---	---	---	---	e.80	.10	.14	.04	.00
2	---	---	---	---	---	---	---	e.62	1.2	.10	.09	.00
3	---	---	---	---	---	---	---	.77	.56	.08	.11	.00
4	---	---	---	---	---	---	---	.71	.24	.07	.03	.00
5	---	---	---	---	---	---	---	.69	.15	.05	.01	.00
6	---	---	---	---	---	---	---	1.8	.11	.04	.00	.00
7	---	---	---	---	---	---	---	1.0	.08	.03	.00	.00
8	---	---	---	---	---	---	---	.64	.06	.03	.43	.00
9	---	---	---	---	---	---	---	.59	.06	.02	.60	.00
10	---	---	---	---	---	---	---	.51	.05	.56	.10	.00
11	---	---	---	---	---	---	---	.46	.04	.29	.04	.00
12	---	---	---	---	---	---	---	.39	.03	.12	.02	.00
13	---	---	---	---	---	---	---	.38	.03	.05	.01	.00
14	---	---	---	---	---	---	---	.43	1.9	.00	.00	.00
15	---	---	---	---	---	---	---	.40	.46	.01	.00	.00
16	---	---	---	---	---	---	---	.35	.17	.02	.00	.00
17	---	---	---	---	---	---	---	.31	.10	.01	.00	.00
18	---	---	---	---	---	---	---	.27	.06	.01	.00	.00
19	---	---	---	---	---	---	---	.40	.04	.00	.00	.04
20	---	---	---	---	---	---	---	.34	.03	.08	.00	.03
21	---	---	---	---	---	---	---	.22	.01	.20	.00	.02
22	---	---	---	---	---	---	---	.17	.01	.59	.00	.00
23	---	---	---	---	---	---	---	.21	.02	.19	.00	.00
24	---	---	---	---	---	---	---	.64	.04	.09	.00	.00
25	---	---	---	---	---	---	---	.41	.05	.05	.01	.00
26	---	---	---	---	---	---	---	.23	.04	.04	.51	.00
27	---	---	---	---	---	---	---	.19	2.8	.63	.09	.00
28	---	---	---	---	---	---	---	.14	.79	.28	.04	.00
29	---	---	---	---	---	---	---	.10	1.4	.12	.04	.01
30	---	---	---	---	---	---	---	.04	.29	.06	.05	.00
31	---	---	---	---	---	---	---	.04	---	.04	.02	---
TOTAL	---	---	---	---	---	---	---	14.25	10.92	4.00	2.24	0.10
MEAN	---	---	---	---	---	---	---	.46	.36	.13	.072	.003
MAX	---	---	---	---	---	---	---	1.8	2.8	.63	.60	.04
MIN	---	---	---	---	---	---	---	.04	.01	.00	.00	.00

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

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	---	---	---	---	---	---	---	.46	.36	.13	.072	.003
MAX	---	---	---	---	---	---	---	.46	.36	.13	.072	.003
(WY)	---	---	---	---	---	---	---	1999	1999	1999	1999	1999
MIN	---	---	---	---	---	---	---	.46	.36	.13	.072	.003
(WY)	---	---	---	---	---	---	---	1999	1999	1999	1999	1999

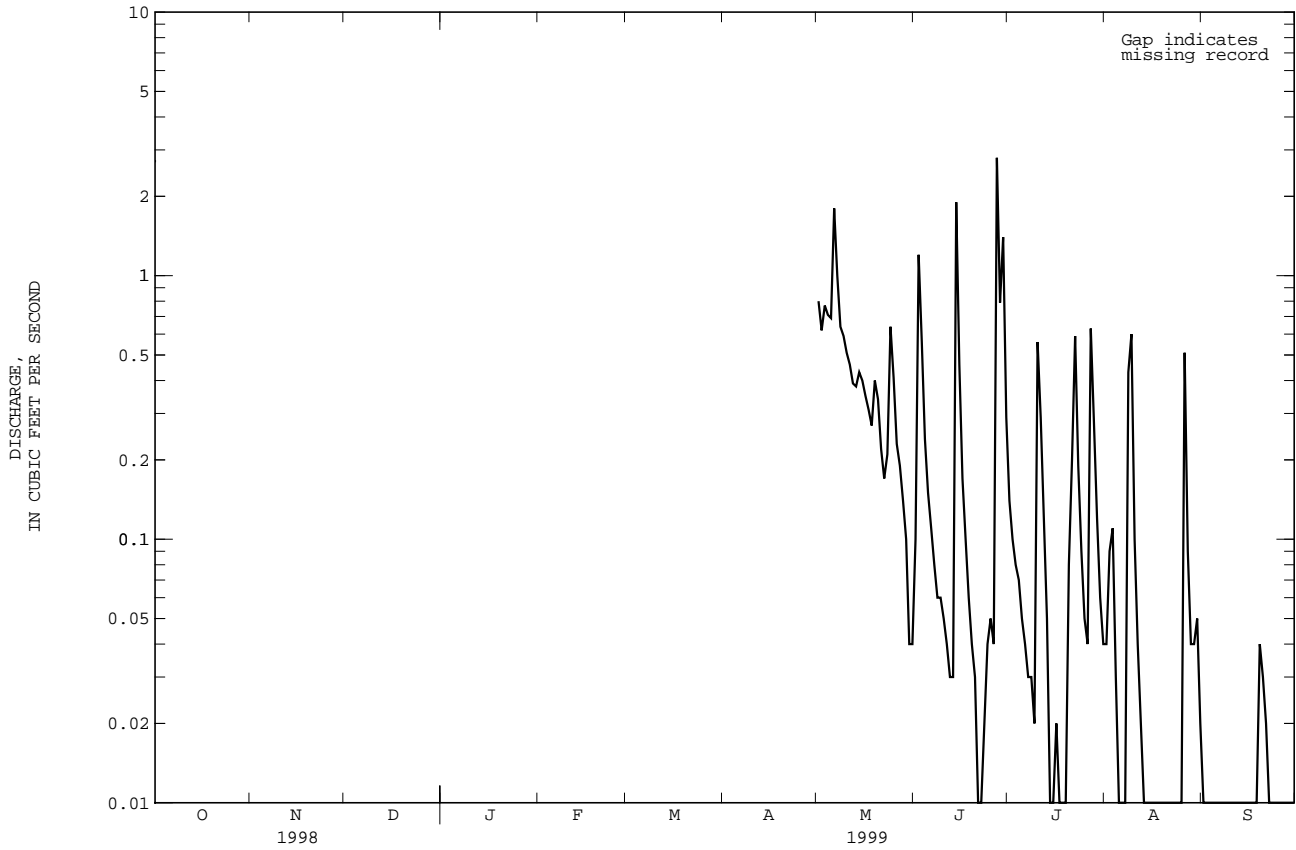
03238780 FOURMILE CREEK AT HIGHWAY 547 NEAR ALEXANDRIA, KY--Continued

SUMMARY STATISTICS

FOR 1999 WATER YEAR

HIGHEST DAILY MEAN	2.8	Jun 27
LOWEST DAILY MEAN	.00	Jul 14
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 14
INSTANTANEOUS PEAK FLOW	7.1	Jun 14
INSTANTANEOUS PEAK STAGE	1.06	Jun 14
10 PERCENT EXCEEDS	.61	
50 PERCENT EXCEEDS	.04	
90 PERCENT EXCEEDS	.00	

e Estimated



FOUR MILE CREEK BASIN

03238780 FOURMILE CREEK AT HIGHWAY 547 NEAR ALEXANDRIA, 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	.03	.09	.26	.20	2.1	1.2	.70	2.2	.40	.40	1.4
2	.00	3.4	.08	.31	.54	1.9	23	1.8	1.8	.36	.29	1.9
3	.00	1.1	.08	167	2.4	1.8	66	.75	1.4	8.9	.24	2.2
4	.03	.33	.09	47	.38	2.4	33	5.8	.66	2.5	.20	1.5
5	.02	.22	.22	3.7	e.26	3.7	8.1	1.2	.65	15	.18	1.3
6	.02	.17	.31	2.1	e.21	3.6	4.7	.89	.86	2.9	.16	1.1
7	.02	.13	.31	1.7	e.27	3.4	11	.65	.50	1.2	1.9	1.1
8	.02	.11	.21	1.4	.51	3.6	42	.58	.43	.75	2.4	1.0
9	e10	.10	.15	1.4	.52	3.2	6.7	.50	.37	.59	6.4	.97
10	e1.6	.08	4.1	1.3	1.4	2.9	4.3	.87	.28	2.8	4.9	.42
11	.53	.08	.91	1.2	3.4	4.0	3.7	.46	.22	5.0	1.1	1.4
12	.31	.07	5.2	1.1	.97	2.6	3.3	.35	.20	1.2	.83	1.2
13	.29	.06	12	1.2	149	1.0	2.9	7.9	.22	.74	.45	.78
14	.29	.07	20	.52	54	.78	2.7	1.3	.24	6.2	.25	.45
15	.22	.06	2.2	.40	6.0	.70	2.1	.56	.51	2.7	.23	.38
16	.22	.06	.80	.42	3.2	22	1.3	.41	9.8	.90	.20	.37
17	.22	.06	.49	.35	2.4	8.4	2.3	3.5	40	.64	.20	.34
18	.17	.06	.37	.34	350	2.8	2.2	2.8	25	.46	12	.33
19	.17	.07	.30	.34	21	26	1.3	.78	6.0	8.8	1.2	.72
20	.17	.08	.41	.38	5.7	70	1.6	.76	3.1	2.0	.94	.58
21	.10	.08	.53	.34	3.5	28	3.3	.50	2.6	1.0	.82	2.0
22	.10	.08	.31	.24	4.2	6.7	2.0	.39	2.0	.93	.77	.77
23	.08	.09	.24	e.20	3.3	4.1	1.3	.39	1.6	.82	.67	16
24	.10	.10	.22	e.17	4.0	3.7	1.2	.40	.97	.48	57	7.4
25	.16	.09	.19	e.14	3.5	2.9	1.1	.26	1.3	.68	4.7	96
26	.07	.13	.16	e.12	2.7	2.5	.95	.22	.78	11	1.9	47
27	.05	.25	.17	e.11	3.5	3.0	.83	92	1.3	1.8	6.9	4.0
28	.04	.28	.20	e.10	2.6	12	.89	12	.97	.63	2.3	2.6
29	.04	.18	.19	e.09	2.3	3.4	.78	5.5	.60	.75	1.6	2.1
30	.04	.11	.23	e.08	---	1.8	.64	3.3	.46	.86	1.5	1.8
31	.04	---	.28	.23	---	1.4	---	2.7	---	.55	1.5	---
TOTAL	15.12	7.74	51.04	234.24	631.96	236.38	236.39	150.22	107.02	83.54	114.13	199.11
MEAN	.49	.26	1.65	7.56	21.8	7.63	7.88	4.85	3.57	2.69	3.68	6.64
MAX	10	3.4	20	167	350	70	66	92	40	15	57	96
MIN	.00	.03	.08	.08	.20	.70	.64	.22	.20	.36	.16	.33

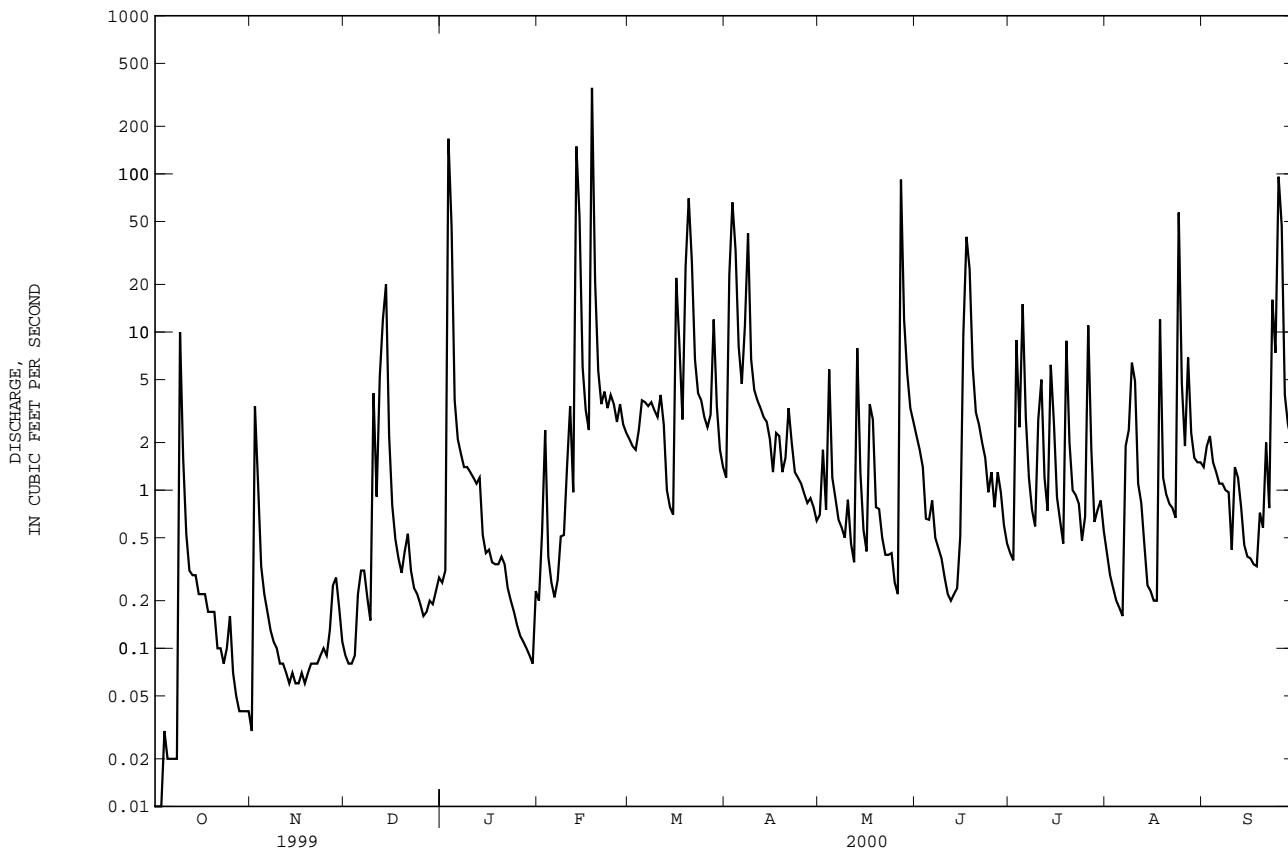
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	.49	.26	1.65	7.56	21.8	7.63	7.88	2.65	1.97	1.41	1.88	3.32
MAX	.49	.26	1.65	7.56	21.8	7.63	7.88	4.85	3.57	2.69	3.68	6.64
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	.49	.26	1.65	7.56	21.8	7.63	7.88	.46	.36	.13	.072	.003
(WY)	2000	2000	2000	2000	2000	2000	2000	1999	1999	1999	1999	1999

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

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL			2066.89			
ANNUAL MEAN			5.65		5.65	
HIGHEST ANNUAL MEAN					5.65	2000
LOWEST ANNUAL MEAN					5.65	2000
HIGHEST DAILY MEAN	20	Dec 14	350	Feb 18	350	Feb 18 2000
LOWEST DAILY MEAN	.00	Jul 14	.00	Oct 1	.00	Jul 14 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 14	.01	Oct 1	.00	Aug 14 1999
INSTANTANEOUS PEAK FLOW			1150	Jan 3	1150	Jan 3 2000
INSTANTANEOUS PEAK STAGE			6.16	Jan 3	6.16	Jan 3 2000
10 PERCENT EXCEEDS	.63		7.6		4.7	
50 PERCENT EXCEEDS	.09		.83		.43	
90 PERCENT EXCEEDS	.00		.09		.01	

e Estimated



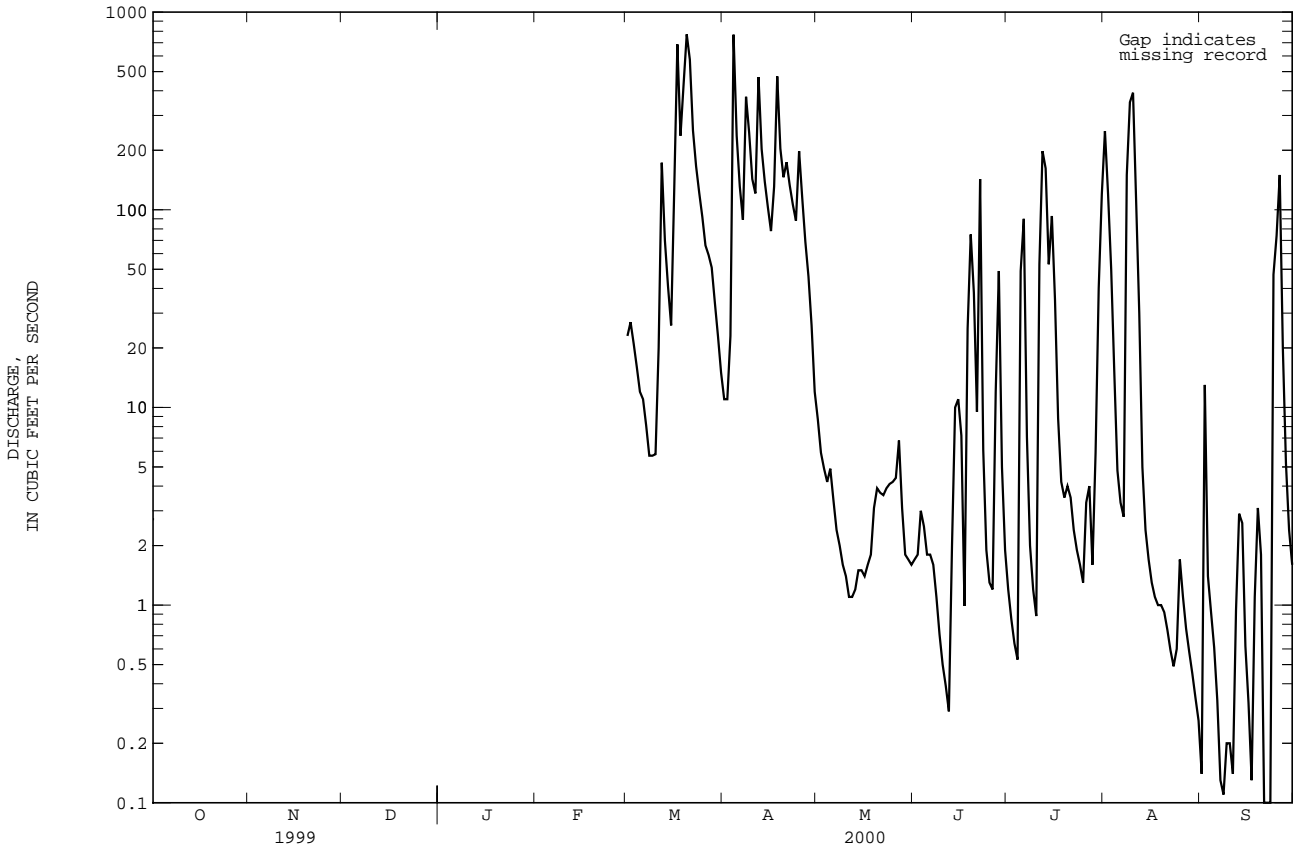
03250190 SLATE CREEK AT HIGHWAY 713 NEAR MOUNT STERLING, KY--Continued

SUMMARY STATISTICS

FOR 2000 WATER YEAR

HIGHEST DAILY MEAN	772	Mar 20
LOWEST DAILY MEAN	.00	Sep 22
ANNUAL SEVEN-DAY MINIMUM	.25	Sep 5
INSTANTANEOUS PEAK FLOW	1320	Mar 20
INSTANTANEOUS PEAK STAGE	9.95	Mar 20
10 PERCENT EXCEEDS	170	
50 PERCENT EXCEEDS	4.9	
90 PERCENT EXCEEDS	.58	

e Estimated



LICKING RIVER BASIN

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 mi²

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.14	.00	e.05	e1.2	e.83	1.4	.14	.04	.32	.00
2	.00	.08	.16	.00	e.05	e1.1	e.83	1.3	.09	.01	.24	.02
3	.00	.21	.19	.20	e.04	e1.0	e1.7	1.2	.06	.00	.20	.00
4	.00	.18	.19	5.6	e.04	e.99	e7.9	1.2	.04	.00	2.4	.00
5	.00	.12	.20	.91	e.04	e.91	e2.8	1.1	.03	.18	.52	.00
6	.00	.09	.22	.34	e.04	e.87	e2.0	1.0	.02	.27	.32	.00
7	.00	.06	.24	.20	e.03	e.79	e1.7	.93	.01	.16	.28	.00
8	.00	.03	.25	.13	.03	e.79	e9.5	.88	.00	.11	.70	1.3
9	.00	.03	.25	.08	.19	e.79	e3.5	.85	.00	.08	1.2	.41
10	e.17	.03	.72	.05	.59	e.71	e2.4	.78	.00	.06	4.7	.22
11	e.02	.03	.81	.07	.64	e3.4	e4.0	.73	.00	1.6	.77	.18
12	.00	.03	.52	.07	.36	e3.0	e5.1	.71	.00	.50	.40	1.3
13	e.09	.03	1.3	.05	2.9	e1.8	e2.7	.72	.00	.26	.28	.99
14	e.03	.03	3.8	.02	13	e1.5	e2.1	.64	.00	.22	.24	.43
15	.00	.03	.73	.00	2.8	e1.3	e1.8	.60	.00	.20	.20	.39
16	.00	.03	.31	.00	1.5	e8.7	e1.6	.57	.00	.20	.12	.22
17	.00	.03	.20	.00	.87	e6.3	e4.3	.57	.03	.16	.09	.16
18	.00	.03	.12	e.05	e86	e2.8	e3.5	.56	.17	.11	.15	.11
19	.00	.03	.07	e.09	e199	e6.3	e2.1	1.0	.19	.14	.07	.07
20	.00	.06	.02	e.12	e6.7	e5.9	e1.4	1.2	.17	.15	.05	.06
21	.00	.04	.00	e.11	e2.6	e4.7	4.9	1.0	.13	.17	.02	.06
22	.00	.05	.00	e.11	e2.4	e2.9	3.9	.85	.08	.14	.01	.03
23	.00	.06	.00	e.11	e2.1	e2.3	3.0	.82	.05	.10	.00	.04
24	.00	.07	.00	e.11	e1.8	e1.9	2.5	.75	.01	.05	.00	.07
25	.00	.10	.00	e.10	e1.6	e1.6	2.6	.64	.00	.02	.00	1.9
26	.00	.15	.00	e.09	e1.4	e1.4	2.3	.58	.00	.00	.00	1.9
27	.00	.15	.00	e.08	e1.5	e1.3	2.0	1.0	.05	.00	.00	.55
28	.00	.13	.00	e.08	e1.6	e1.2	1.8	.42	.04	.00	.00	.32
29	.00	.12	.00	e.07	e1.3	e1.1	1.6	.28	.02	.04	.00	.24
30	.00	.12	.00	e.06	---	e.99	1.5	.21	.05	.26	.00	.19
31	.00	---	.00	e.06	---	e.87	---	.18	---	.34	.00	---
TOTAL	0.31	2.15	10.44	8.96	331.17	70.41	87.86	24.67	1.38	5.57	13.28	11.16
MEAN	.010	.072	.34	.29	11.4	2.27	2.93	.80	.046	.18	.43	.37
MAX	.17	.21	3.8	5.6	199	8.7	9.5	1.4	.19	1.6	4.7	1.9
MIN	.00	.00	.00	.00	.03	.71	.83	.18	.00	.00	.00	.00

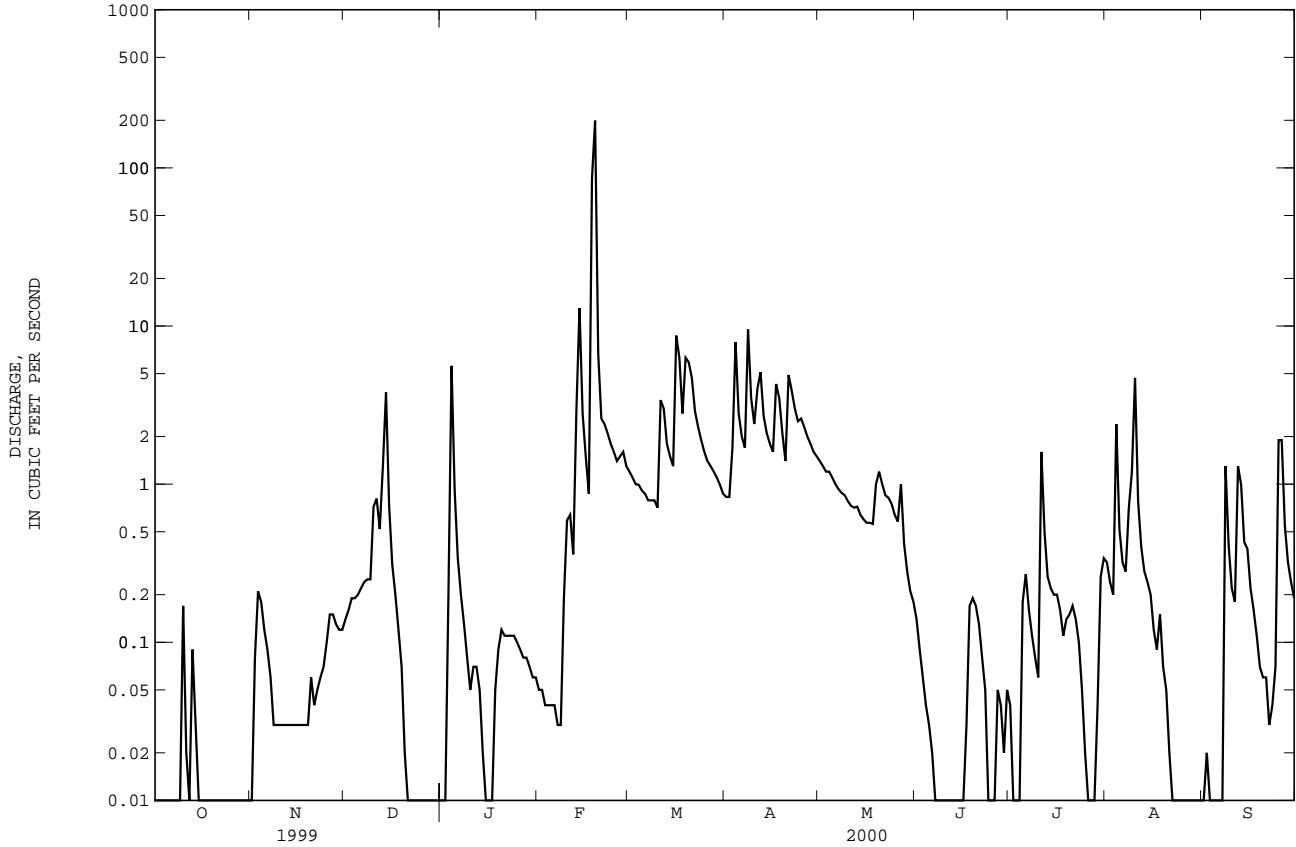
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000
MEAN	.039	.29	.97	2.33	5.09	3.88	2.12	1.50	1.42	.46	.34	.29	.29	.29	.29
MAX	.13	.92	2.80	3.42	11.4	8.93	4.05	3.45	4.28	1.06	1.09	1.06	1.06	1.06	1.06
(WY)	1997	1997	1997	1998	2000	1997	1998	1998	1997	1998	1998	1996	1996	1996	1996
MIN	.009	.037	.31	.29	1.57	2.07	.49	.14	.046	.003	.005	.000	.000	.000	.000
(WY)	1998	1999	1998	2000	1999	1998	1999	1999	2000	1999	1999	1999	1999	1999	1999

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

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL TOTAL	237.33		567.36			
ANNUAL MEAN	.65		1.55		1.51	
HIGHEST ANNUAL MEAN					2.24	1997
LOWEST ANNUAL MEAN					.65	1999
HIGHEST DAILY MEAN	23	Jan 9	199	Feb 19	199	Feb 19 2000
LOWEST DAILY MEAN	.00	Jun 18	.00	Oct 1	.00	Sep 15 1997
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 18	.00	Oct 1	.00	Sep 15 1997
INSTANTANEOUS PEAK FLOW			259	Feb 18	592	Mar 1 1997
INSTANTANEOUS PEAK STAGE			4.31	Feb 18	5.65	Mar 1 1997
10 PERCENT EXCEEDS	1.6		2.3		2.7	
50 PERCENT EXCEEDS	.09		.16		.35	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated



LICKING RIVER BASIN

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 mi²

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.09	e.08	e.13	3.2	2.1	2.0	.40	.14	.59	.00
2	.00	2.0	.09	e.08	e.12	2.8	2.1	2.0	e.35	.09	.22	.77
3	.00	.45	.09	1.1	e.12	2.6	4.2	1.7	e.33	.08	.20	.51
4	.00	.08	.10	17	e.11	2.5	20	1.6	e.31	.24	9.6	.02
5	.00	.05	.19	2.3	e.11	2.3	7.0	1.4	e.30	3.9	1.0	.00
6	.00	.04	.28	1.1	e.11	2.2	5.1	1.2	e.29	1.3	.35	.00
7	.00	.03	.12	.62	e.10	2.0	4.2	1.1	e.26	.54	.20	.00
8	.00	.03	.11	.42	e.10	2.0	24	.98	e.24	.28	3.5	7.2
9	.00	.03	.10	.38	.28	2.0	8.9	.87	e.20	.17	3.9	2.1
10	.44	.03	2.2	.29	.80	1.8	6.1	.75	e.18	.20	12	.67
11	.01	.03	.54	.22	1.0	8.7	10	.70	e.16	4.6	1.5	.32
12	.00	.02	.31	.19	.61	7.7	13	.68	e.14	.84	.54	4.8
13	.14	.02	3.3	e.18	6.9	4.6	6.9	.96	e.12	.24	.25	3.6
14	.25	.02	7.4	e.17	37	3.7	5.5	.63	e.08	.70	.12	1.6
15	.00	.02	1.5	e.16	4.8	3.2	4.6	.58	e.10	.25	.04	1.0
16	.00	.02	.60	e.15	2.8	22	4.1	.53	e.10	.09	.02	.45
17	.00	.02	.33	e.14	2.0	16	11	.53	2.6	.03	.00	.23
18	.00	.02	.23	e.13	208	7.2	8.9	.52	1.1	.00	.75	.13
19	.00	.02	.17	e.13	505	16	6.0	2.7	.77	.80	.02	.08
20	.00	.02	.14	e.12	17	15	5.7	1.5	.55	.06	.00	.04
21	.00	.02	.13	e.32	6.6	12	9.7	1.1	.38	.03	.00	.17
22	.00	.02	e.12	e.30	6.1	7.4	7.4	.76	.26	.01	.00	.03
23	.00	.02	e.11	e.27	5.2	5.8	5.5	1.2	e.11	.00	.00	.05
24	.00	.02	e.11	e.22	4.6	4.7	4.7	.62	.07	.00	.01	.53
25	.00	.05	e.10	e.20	4.0	4.0	4.8	.50	.05	.00	.00	7.3
26	.00	.61	e.10	e.18	3.5	3.5	3.9	.41	.28	.00	.00	5.7
27	.00	.13	e.09	e.16	3.9	3.4	3.3	6.0	2.2	.00	.00	2.1
28	.00	.11	e.09	e.15	4.1	3.1	2.9	2.2	.84	.00	.00	1.0
29	.00	.10	e.09	e.15	3.4	2.7	2.5	1.3	.38	1.7	.00	.50
30	.00	.10	e.08	e.14	---	2.5	2.2	.88	.21	1.2	.00	.31
31	.00	---	e.08	e.13	---	2.2	---	.59	---	1.3	.00	---
TOTAL	0.84	4.13	18.99	27.18	828.49	178.8	206.3	38.49	13.36	18.79	34.81	41.21
MEAN	.027	.14	.61	.88	28.6	5.77	6.88	1.24	.45	.61	1.12	1.37
MAX	.44	2.0	7.4	17	505	22	24	6.0	2.6	4.6	12	7.3
MIN	.00	.00	.08	.08	.10	1.8	2.1	.41	.05	.00	.00	.00

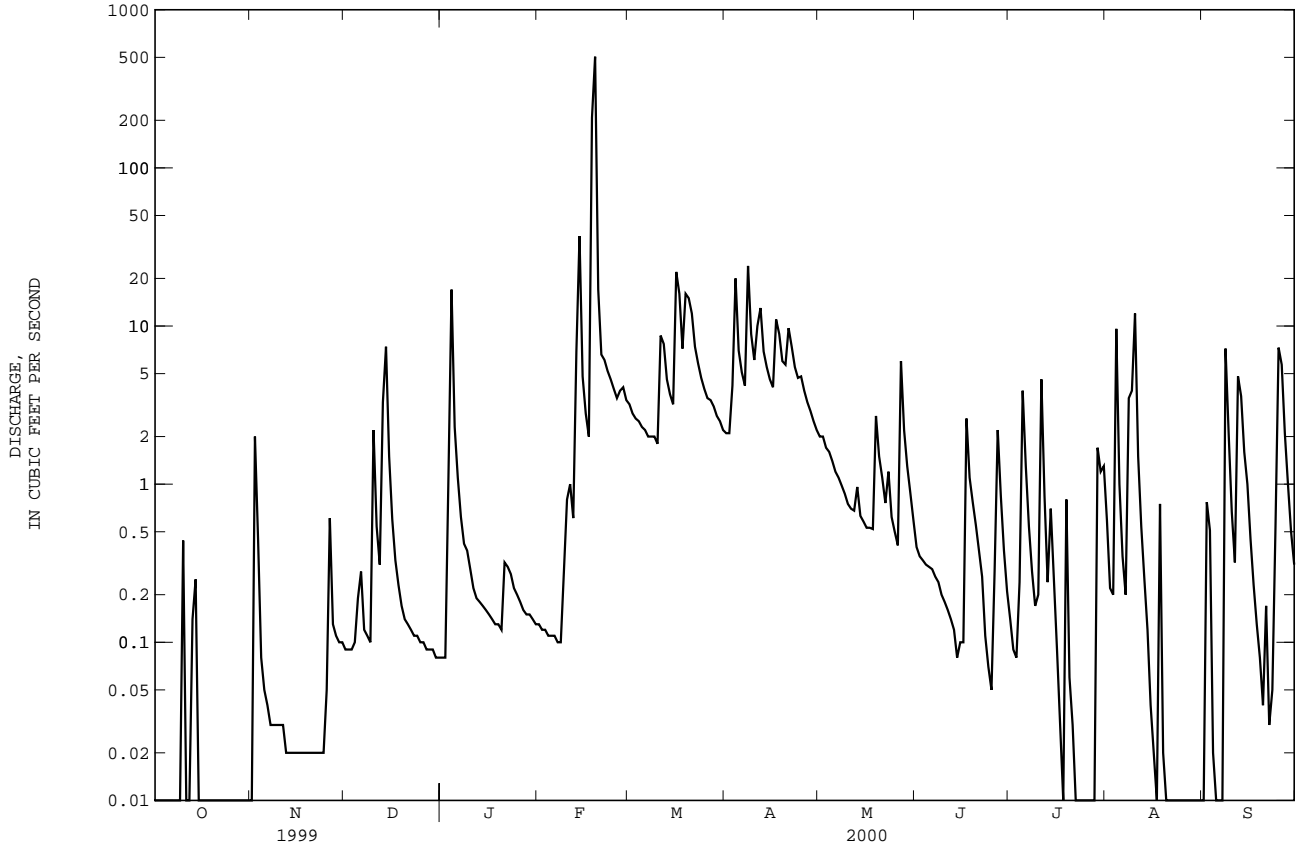
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

	1997	1998	1999	2000	1997	1998	1999	2000	1997	1998	1999	2000
MEAN	.16	1.53	3.52	9.93	13.8	9.70	6.84	5.29	4.97	2.33	.63	.40
MAX	.33	4.79	10.0	14.9	28.6	17.5	16.2	13.9	15.3	6.63	1.12	1.37
(WY)	1997	1997	1997	1998	2000	1997	1998	1998	1997	1998	2000	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL TOTAL	953.15		1411.39			
ANNUAL MEAN	2.61		3.86		4.88	
HIGHEST ANNUAL MEAN					6.55 1998	
LOWEST ANNUAL MEAN					2.65 1999	
HIGHEST DAILY MEAN	120	Jan 9	505	Feb 19	505	Feb 19 2000
LOWEST DAILY MEAN	.00	Jun 16	.00	Oct 1	.00	Sep 21 1997
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 16	.00	Oct 1	.00	Sep 21 1997
INSTANTANEOUS PEAK FLOW			1170		1170	
INSTANTANEOUS PEAK STAGE			6.78		10.71	
10 PERCENT EXCEEDS	6.0		5.9		9.5	
50 PERCENT EXCEEDS	.12		.30		.96	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated



LICKING RIVER BASIN

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 mi²

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.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 19	1430	11,600	26.32	No other peak greater than base discharge.			

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	e.00	.16	e1.7	92	67	49	35	52	589	37
2	.00	.07	.00	.16	e1.5	82	63	50	23	36	871	28
3	.00	.13	.00	456	e1.4	73	96	49	16	26	304	36
4	.00	.03	.00	2730	e1.3	67	577	45	11	26	154	35
5	.00	.00	.00	1020	e1.2	62	900	102	7.0	306	97	23
6	.00	.00	.00	260	e1.6	58	438	206	5.3	134	72	16
7	.00	.00	.00	78	e2.2	e32	244	66	4.3	76	61	12
8	.00	.00	.00	46	e2.5	e27	1140	44	3.7	53	69	11
9	.00	.00	.00	29	e6.8	e23	1530	34	2.9	43	91	12
10	.10	.00	.00	18	e22	e19	735	26	2.2	36	e550	20
11	.09	.00	.00	10	45	17	415	21	1.9	1080	370	218
12	.06	.00	.03	6.2	28	e20	359	16	1.7	688	187	839
13	.04	.00	14	4.7	620	e10	469	14	1.6	343	105	1480
14	.03	.00	75	4.8	3510	17	336	15	1.6	388	73	821
15	.02	.00	e200	3.1	3140	e50	236	13	1.6	1670	54	273
16	.00	.00	e93	2.7	872	e113	176	10	1.7	920	41	149
17	.01	.00	e45	2.4	278	e250	166	10	7.2	272	36	96
18	.01	.00	e25	2.2	3070	e610	533	11	305	137	319	72
19	.02	.00	5.1	1.8	e7820	e1400	516	13	488	578	223	58
20	.02	.00	2.6	1.6	e1500	e3000	339	18	274	925	139	48
21	.02	.00	1.2	1.4	e710	e1800	237	41	183	430	81	46
22	.00	.00	.59	e4.7	e450	e780	220	58	111	204	61	43
23	.00	.00	.43	e3.7	301	486	230	37	78	123	49	36
24	.00	.00	.35	e3.2	228	339	167	25	55	85	42	58
25	.00	e.00	.33	e2.8	198	245	129	17	38	66	39	780
26	.00	e.00	.27	e2.4	159	180	105	12	28	54	40	2040
27	.00	e.00	.24	e2.1	139	144	86	76	86	46	37	1630
28	.00	e.00	.23	e1.9	124	126	71	161	103	39	77	421
29	.00	e.00	.21	e1.7	101	110	63	231	131	67	139	227
30	.00	e.00	.16	e1.5	---	92	55	102	89	88	72	142
31	.00	---	.16	1.8	---	78	---	53	---	148	49	---
TOTAL	0.42	0.23	463.90	4704.02	23335.2	10402	10698	1625	2096.7	9139	5091	9707
MEAN	.014	.008	15.0	152	805	336	357	52.4	69.9	295	164	324
MAX	.10	.13	200	2730	7820	3000	1530	231	488	1670	871	2040
MIN	.00	.00	.00	.16	1.2	10	55	10	1.6	26	36	11
CFSM	.00	.00	.07	.67	3.56	1.48	1.58	.23	.31	1.30	.73	1.43
IN.	.00	.00	.08	.77	3.84	1.71	1.76	.27	.35	1.50	.84	1.60

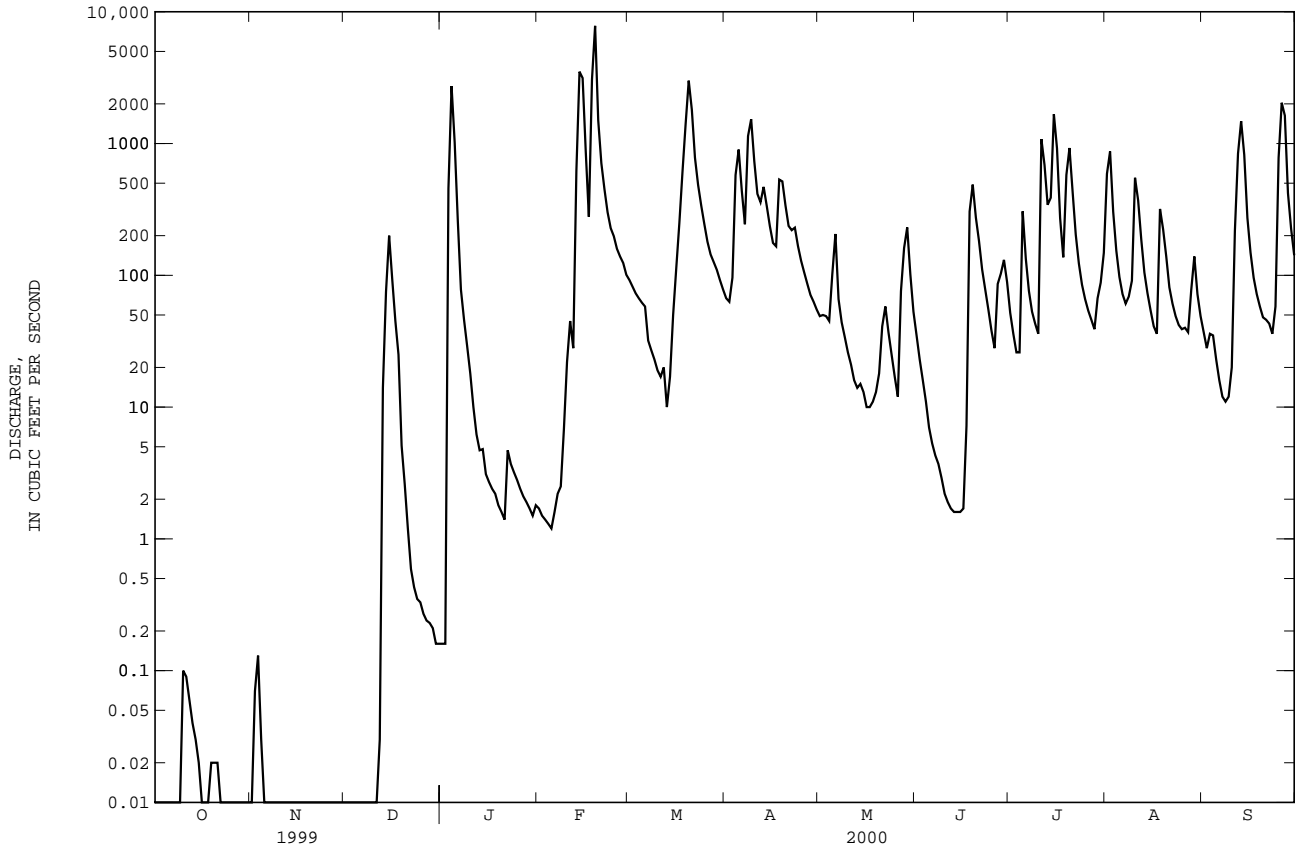
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2000, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000		
MEAN	9.27	115	308	643	545	714	361	456	285	131	58.7	47.4
MAX	31.4	454	857	1165	827	1796	676	1524	779	296	164	324
(WY)	1994	1994	1997	1994	1998	1997	1994	1996	1998	1992	2000	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1991 - 2000	
ANNUAL TOTAL	61048.93		77262.47			
ANNUAL MEAN	167		211		308	
HIGHEST ANNUAL MEAN					440 1997	
LOWEST ANNUAL MEAN					175 1999	
HIGHEST DAILY MEAN	3520	Jan 10	7820	Feb 19	12400	Mar 2 1997
LOWEST DAILY MEAN	.00	Aug 1	.00	Oct 1	.00	Oct 10 1997
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 1	.00	Oct 1	.00	Oct 17 1997
INSTANTANEOUS PEAK FLOW			11600 Feb 19		13500 Mar 2 1997	
INSTANTANEOUS PEAK STAGE			26.32 Feb 19		34.71 Mar 2 1997	
INSTANTANEOUS LOW FLOW					.24 Oct 7 1994	
ANNUAL RUNOFF (CFSM)	.74		.93		1.36	
ANNUAL RUNOFF (INCHES)	10.05		12.72		18.49	
10 PERCENT EXCEEDS	573		521		771	
50 PERCENT EXCEEDS	.84		38		62	
90 PERCENT EXCEEDS	.00		.00		.87	

e Estimated



LICKING RIVER BASIN

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 mi².

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 10ft³/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 3,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 19	Unknown	*4,540	*25.57	No other peak greater than base discharge.			

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	.78	.42	1.4	.45	e2.1	81	60	54	20	11	233	1.0
2	11	.76	.93	.53	e4.0	75	57	51	13	7.1	211	1.0
3	7.4	1.4	.73	19	e8.8	68	63	49	9.3	5.0	58	.99
4	3.2	29	.67	417	e8.1	61	258	49	7.9	3.9	38	1.0
5	2.5	24	.64	305	e7.6	56	215	59	4.3	e150	28	.91
6	2.2	9.8	.97	103	e7.2	51	127	52	6.7	e80	18	.80
7	1.6	4.5	1.2	56	10	47	95	44	7.5	e40	12	.84
8	2.0	1.6	1.2	39	16	43	587	36	3.2	31	11	1.5
9	10	1.0	1.3	30	27	41	443	31	2.5	22	45	2.2
10	13	.73	4.1	24	46	39	247	27	2.1	14	165	5.8
11	54	.69	9.8	19	69	40	171	25	1.4	27	108	9.6
12	27	.66	47	15	49	51	253	23	1.9	112	60	8.9
13	8.5	.68	27	12	73	73	263	21	1.8	59	38	5.8
14	1.4	.77	37	8.7	248	54	195	19	1.6	36	24	6.0
15	.77	.73	80	7.9	102	45	154	21	1.8	44	16	8.0
16	5.7	.72	48	5.4	193	150	124	23	2.0	30	11	7.8
17	5.7	.72	23	3.4	55	690	144	21	42	21	e9.4	4.3
18	1.6	.73	10	e3.0	e600	361	311	16	e68	10	14	2.1
19	.75	.75	4.0	e2.8	e3500	692	249	16	e110	19	20	1.6
20	.52	.80	2.2	e2.6	2190	1560	181	18	e76	46	13	2.0
21	.38	.87	1.4	e2.5	446	1520	377	21	47	17	8.6	9.4
22	.15	.77	1.0	e2.4	284	646	252	25	37	11	4.8	12
23	.21	.72	1.0	e3.0	213	359	181	23	25	7.3	2.9	12
24	.26	.69	.91	e2.4	173	251	144	20	15	2.8	2.2	15
25	.28	.72	.77	e1.9	185	185	124	19	9.3	1.9	2.0	18
26	.24	1.1	.71	e1.6	146	143	107	20	6.0	1.3	1.9	68
27	.26	1.0	.64	e1.3	120	119	89	18	8.1	1.1	1.8	81
28	.29	.88	.58	e1.1	106	107	78	36	20	.89	1.9	55
29	.33	3.3	.52	e1.0	92	91	69	64	e58	1.0	1.7	31
30	.37	2.5	.46	e1.2	---	76	61	42	20	4.0	1.4	19
31	.38	---	.43	e1.5	---	67	---	30	---	98	1.1	---
MEAN	5.25	3.10	9.99	35.3	310	253	189	31.4	20.9	29.5	37.5	13.1
MAX	54	29	80	417	3500	1560	587	64	110	150	233	81
MIN	.15	.42	.43	.45	2.1	39	57	16	1.4	.89	1.1	.80

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2000, BY WATER YEAR (WY)

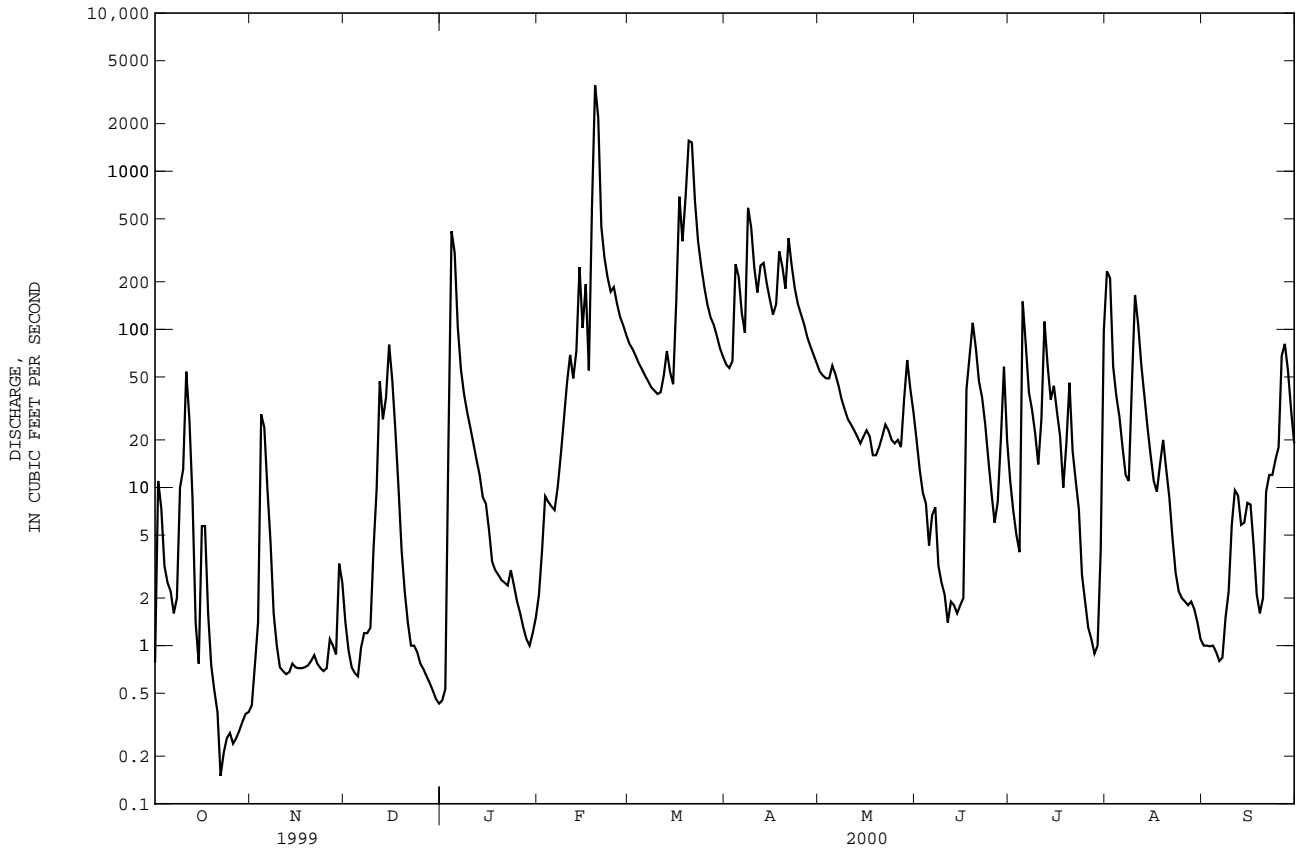
	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	19.6	92.4	189	422	336	498	190	284	165
MAX	48.2	302	453	675	526	1210	436	875	652
(WY)	1994	1994	1997	1994	1994	1997	1994	1996	1997
MIN	1.33	3.10	9.99	35.3	168	240	40.4	17.7	14.5
(WY)	1998	2000	2000	2000	1996	1998	1999	1999	1999

LICKING RIVER BASIN

03252300 HINKSTON CREEK NEAR CARLISLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1992 - 2000	
ANNUAL MEAN	106		77.1		193	
HIGHEST ANNUAL MEAN					304 1997	
LOWEST ANNUAL MEAN					77.1 2000	
HIGHEST DAILY MEAN	3090	Jan 9	3500	Feb 19	7520	Mar 2 1997
LOWEST DAILY MEAN	.00	Aug 11	.15	Oct 22	.00	Aug 11 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 11	.24	Oct 22	.00	Aug 11 1999
INSTANTANEOUS PEAK FLOW			4540	Feb 19	7800	Mar 2 1997
INSTANTANEOUS PEAK STAGE			25.57	Feb 19	37.00	Mar 2 1997
10 PERCENT EXCEEDS	351		175		451	
50 PERCENT EXCEEDS	12		14		51	
90 PERCENT EXCEEDS	.52		.75		2.5	

e Estimated

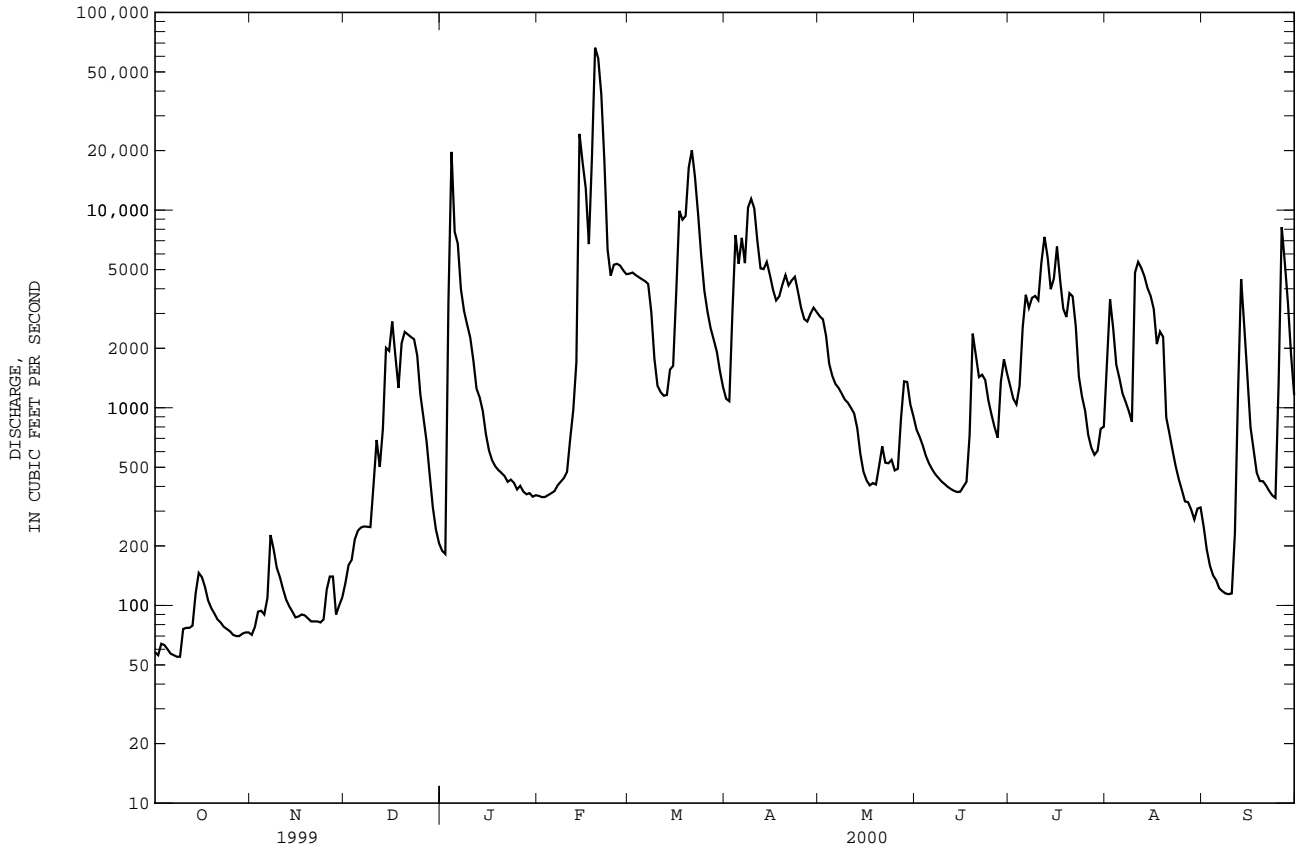


LICKING RIVER BASIN

03253500 LICKING RIVER AT CATAWBA, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1974 - 2000	
ANNUAL TOTAL	739872		947621		4192	
ANNUAL MEAN	2027		2589		7730	
HIGHEST ANNUAL MEAN					1979	
LOWEST ANNUAL MEAN					2006	
HIGHEST DAILY MEAN	25000	Jan 23	66300	Feb 19	104000	Mar 3 1997
LOWEST DAILY MEAN	34	Jul 27	55	Oct 8	25	Jul 8 1988
ANNUAL SEVEN-DAY MINIMUM	44	Sep 14	59	Oct 3	38	Jul 3 1988
INSTANTANEOUS PEAK FLOW			68900		110000	
INSTANTANEOUS PEAK STAGE			41.76		57.57	
INSTANTANEOUS LOW FLOW					2.5	
10 PERCENT EXCEEDS	7230		5360		10600	
50 PERCENT EXCEEDS	146		893		1650	
90 PERCENT EXCEEDS	57		90		228	

e Estimated



LICKING RIVER BASIN

03254550 BANKLICK CREEK AT HIGHWAY 1829 NEAR ERLANGER, KY

LOCATION.--Lat 38°58'34", long 84°32'40", Kenton County, Hydrologic Unit 05090203, 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 mi²

PERIOD OF RECORD.--April 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 660 ft above NGVD of 1929, (from topographic map).

REMARKS.--1999: Records good. 2000: Records good except for estimated periods, which are fair.

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	---	---	---	---	---	---	e30	e12	.45	2.1	1.5	.26
2	---	---	---	---	---	---	33	9.6	2.0	1.2	4.6	.20
3	---	---	---	---	---	---	45	9.1	5.4	.75	2.1	.20
4	---	---	---	---	---	---	56	7.8	2.6	.56	1.1	.18
5	---	---	---	---	---	---	44	7.2	1.2	.45	.62	.17
6	---	---	---	---	---	---	37	18	.75	.35	.51	.17
7	---	---	---	---	---	---	24	11	.60	.27	.44	.15
8	---	---	---	---	---	---	22	7.4	.50	.22	14	.13
9	---	---	---	---	---	---	28	6.1	.42	.24	18	.11
10	---	---	---	---	---	---	24	5.3	.36	14	5.9	.10
11	---	---	---	---	---	---	22	4.7	.37	7.1	3.3	.09
12	---	---	---	---	---	---	19	4.0	.62	2.2	1.6	.08
13	---	---	---	---	---	---	17	5.5	1.4	.98	.94	.07
14	---	---	---	---	---	---	17	9.9	11	.64	.54	.06
15	---	---	---	---	---	---	21	6.4	9.6	.49	.42	.05
16	---	---	---	---	---	---	28	4.7	3.7	.40	.32	.04
17	---	---	---	---	---	---	21	3.5	1.8	.33	.26	.03
18	---	---	---	---	---	---	23	3.3	.96	.26	.22	.02
19	---	---	---	---	---	---	20	4.5	.69	.23	.22	.02
20	---	---	---	---	---	---	19	3.7	.57	.21	.24	.01
21	---	---	---	---	---	---	129	2.1	.48	19	.19	.00
22	---	---	---	---	---	---	48	1.5	.32	8.7	.15	.00
23	---	---	---	---	---	---	29	1.1	.21	3.3	.14	.00
24	---	---	---	---	---	---	21	2.0	.28	1.4	.19	.00
25	---	---	---	---	---	---	17	2.3	.41	.69	1.7	.00
26	---	---	---	---	---	---	15	1.9	.59	1.2	3.2	.00
27	---	---	---	---	---	---	16	1.1	4.7	55	3.0	.00
28	---	---	---	---	---	---	18	.73	9.2	10	1.2	.00
29	---	---	---	---	---	---	e18	.58	15	3.6	.64	.00
30	---	---	---	---	---	---	e15	.50	5.0	1.6	.42	.00
31	---	---	---	---	---	---	---	.47	---	.99	.33	---
TOTAL	---	---	---	---	---	---	876	157.98	81.18	138.46	67.99	2.14
MEAN	---	---	---	---	---	---	29.2	5.10	2.71	4.47	2.19	.071
MAX	---	---	---	---	---	---	129	18	15	55	18	.26
MIN	---	---	---	---	---	---	15	.47	.21	.21	.14	.00

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

	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	
MEAN	---	---	---	---	---	---	29.2	5.10	2.71	4.47	2.19	.071
MAX	---	---	---	---	---	---	29.2	5.10	2.71	4.47	2.19	.071
(WY)	---	---	---	---	---	---	1999	1999	1999	1999	1999	1999
MIN	---	---	---	---	---	---	29.2	5.10	2.71	4.47	2.19	.071
(WY)	---	---	---	---	---	---	1999	1999	1999	1999	1999	1999

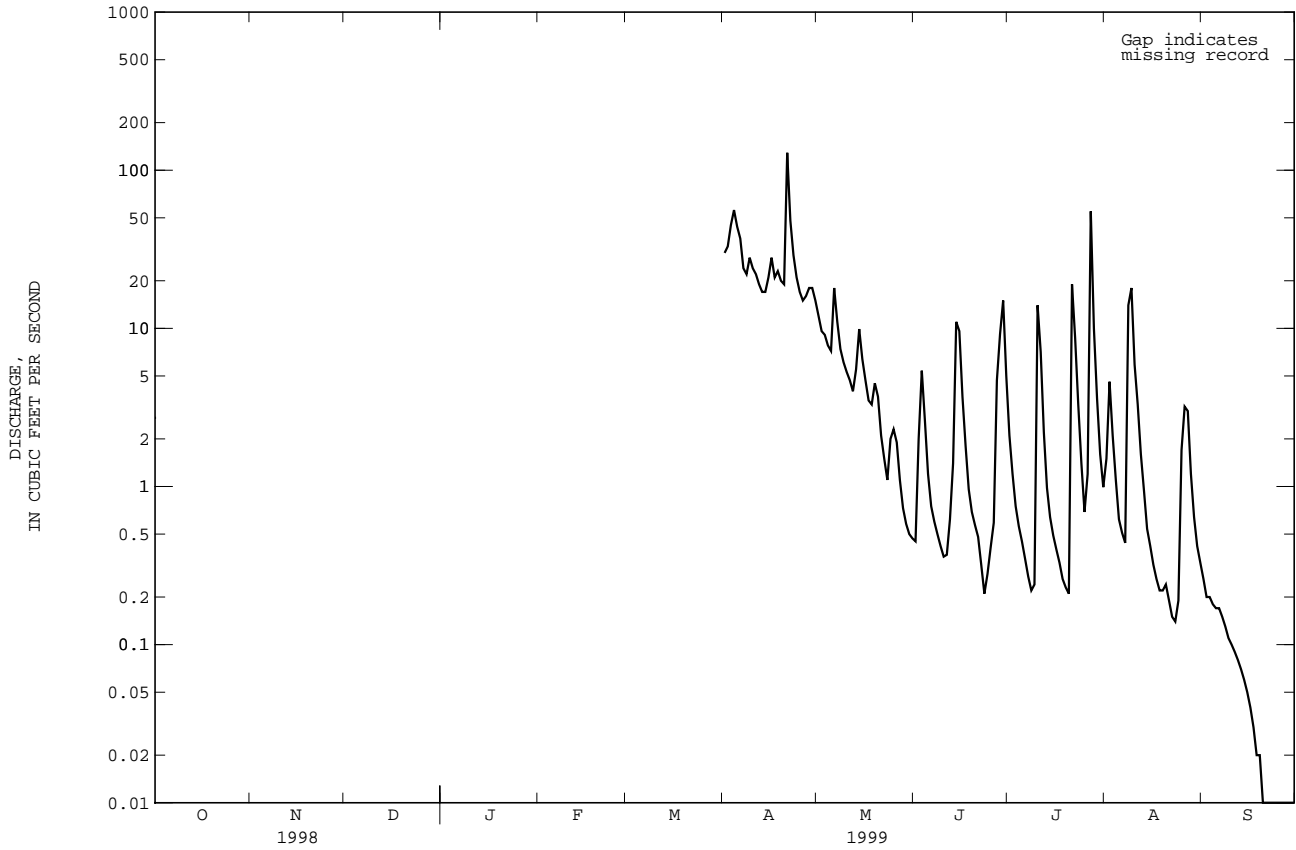
03254550 BANKLICK CREEK AT HIGHWAY 1829 NEAR ERLANGER, KY--Continued

SUMMARY STATISTICS

FOR 1999 WATER YEAR

HIGHEST DAILY MEAN	129	Apr 21
LOWEST DAILY MEAN	.00	Sep 21
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 21
INSTANTANEOUS PEAK FLOW	433	Apr 21
INSTANTANEOUS PEAK STAGE	6.03	Apr 21
10 PERCENT EXCEEDS	21	
50 PERCENT EXCEEDS	1.2	
90 PERCENT EXCEEDS	.07	

e Estimated



LICKING RIVER BASIN

03254550 BANKLICK CREEK AT HIGHWAY 1829 NEAR ERLANGER, 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	.01	.29	.55	2.5	2.1	18	17	7.0	9.2	.83	.85	.43
2	.00	2.3	.53	3.6	e9.0	14	76	17	6.4	.65	.53	.37
3	.00	13	.48	747	e24	12	240	11	4.7	4.9	.37	.32
4	.08	6.0	.49	382	e4.0	12	211	12	3.1	1.8	.29	.29
5	.10	2.7	.62	60	2.4	10	84	8.8	2.6	269	.21	.23
6	.08	1.6	1.5	33	2.1	8.7	52	10	2.7	55	.19	.18
7	.07	1.1	2.3	23	2.7	8.1	54	19	2.2	23	1.3	.17
8	.08	.80	1.4	17	4.5	8.2	292	9.2	1.3	12	6.4	.17
9	8.6	.67	.93	16	5.5	7.9	73	6.4	.84	7.1	44	.17
10	20	.58	19	14	8.1	6.7	48	5.7	.79	6.6	52	.19
11	7.7	.52	13	11	10	12	38	4.3	.63	27	11	.57
12	2.9	.46	19	9.0	6.3	23	30	3.4	.45	12	4.4	4.8
13	1.9	.41	63	17	748	13	25	38	.36	6.3	2.1	8.0
14	1.1	.38	105	13	502	10	22	16	.34	4.1	1.2	2.4
15	.78	.35	29	10	74	9.0	19	7.0	.42	2.4	.71	.92
16	.77	.33	14	11	42	93	16	4.8	34	1.2	.53	.50
17	.74	.31	8.8	10	27	80	23	12	270	.83	.87	.34
18	.62	.30	6.3	9.2	2130	38	32	26	132	.81	59	.27
19	.56	.29	4.8	e8.6	214	117	20	12	52	38	13	.23
20	.52	.35	5.5	e10	71	367	35	8.1	23	16	5.1	.83
21	.53	.35	6.4	e9.0	44	131	72	6.1	17	6.6	2.5	5.2
22	.46	.43	4.0	e5.0	38	66	42	5.1	11	3.3	1.4	3.6
23	.47	.41	3.0	e3.1	32	47	30	4.6	6.5	1.9	e1.0	16
24	.47	.42	2.5	e2.5	31	36	24	3.9	4.1	1.1	e68	19
25	.45	.39	1.8	e2.0	29	29	20	2.6	8.2	.71	12	126
26	.38	.55	1.7	e1.5	25	23	16	1.5	6.2	.57	5.0	202
27	.38	.62	1.9	e1.3	28	24	14	88	3.3	.51	2.9	29
28	.35	.67	1.7	1.1	22	45	12	91	3.4	.43	1.6	15
29	.32	.90	1.7	e1.0	19	29	10	41	2.6	.50	1.0	9.7
30	.31	.68	2.3	e.90	---	24	8.0	20	1.5	1.1	.69	7.1
31	.29	---	2.9	2.4	---	19	---	14	---	1.1	.54	---
TOTAL	51.02	38.16	326.10	1436.70	4156.7	1340.6	1655.0	515.5	610.83	507.34	300.68	453.98
MEAN	1.65	1.27	10.5	46.3	143	43.2	55.2	16.6	20.4	16.4	9.70	15.1
MAX	20	13	105	747	2130	367	292	91	270	269	68	202
MIN	.00	.29	.48	.90	2.1	6.7	8.0	1.5	.34	.43	.19	.17

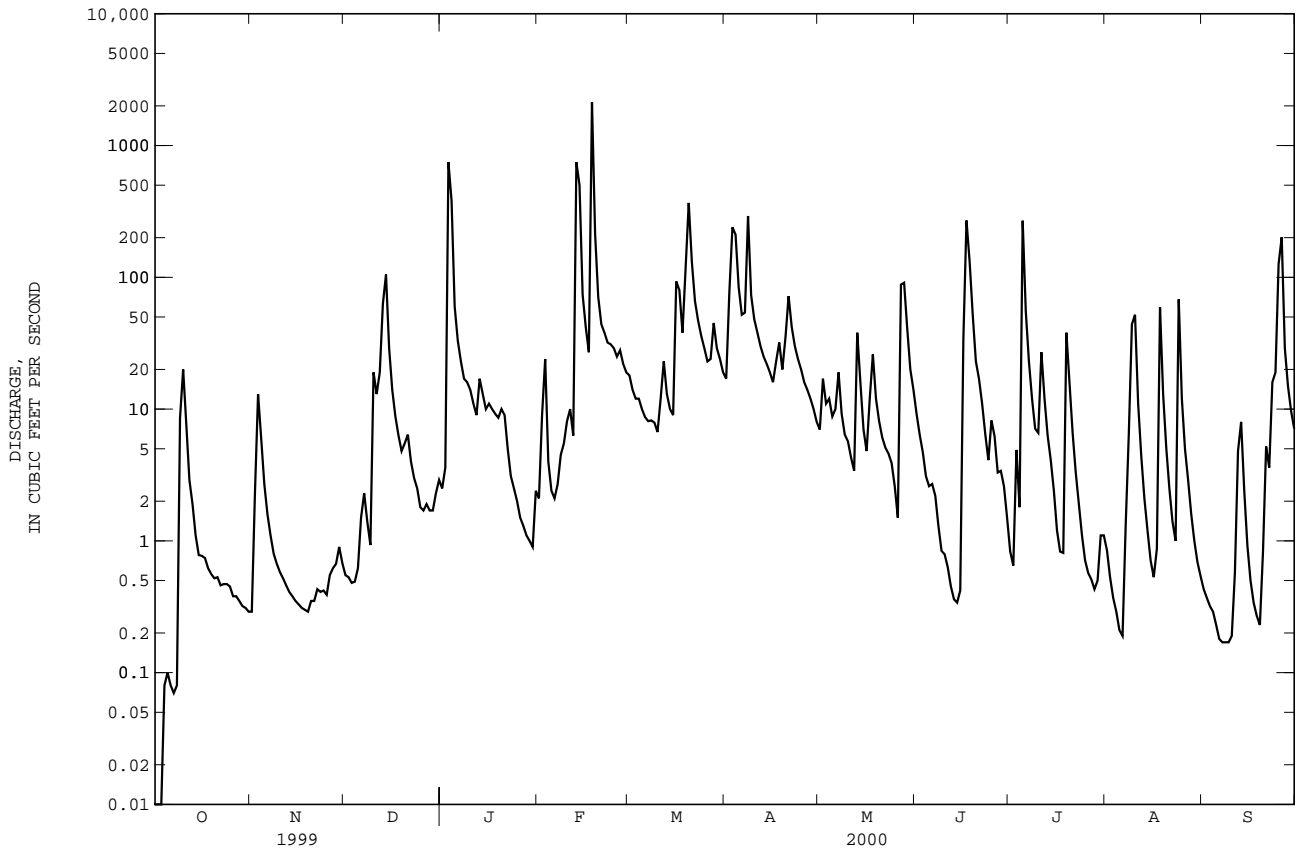
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	1999	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MEAN	1.65	1.27	10.5	46.3	143	43.2	42.2	10.9	11.5	10.4	5.95	7.60
MAX	1.65	1.27	10.5	46.3	143	43.2	55.2	16.6	20.4	16.4	9.70	15.1
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	1.65	1.27	10.5	46.3	143	43.2	29.2	5.10	2.71	4.47	2.19	.071
(WY)	2000	2000	2000	2000	2000	2000	1999	1999	1999	1999	1999	1999

03254550 BANKLICK CREEK AT HIGHWAY 1829 NEAR ERLANGER, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1999 - 2000	
ANNUAL TOTAL		11392.61		
ANNUAL MEAN		31.1	31.1	
HIGHEST ANNUAL MEAN			31.1	2000
LOWEST ANNUAL MEAN			31.1	2000
HIGHEST DAILY MEAN	129 Apr 21	2130 Feb 18	2130	Feb 18 2000
LOWEST DAILY MEAN	.00 Sep 21	.00 Oct 2	.00	Sep 21 1999
ANNUAL SEVEN-DAY MINIMUM	.00 Sep 21	.05 Oct 1	.00	Sep 21 1999
INSTANTANEOUS PEAK FLOW		6040 Feb 18	6040	Feb 18 2000
INSTANTANEOUS PEAK STAGE		9.34 Feb 18	9.34	Feb 18 2000
10 PERCENT EXCEEDS	19	52	38	
50 PERCENT EXCEEDS	.94	5.3	3.3	
90 PERCENT EXCEEDS	.10	.37	.23	

e Estimated



GUNPOWDER CREEK BASIN

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 mi².

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.--April 1999 to September 1999: Records good except for periods of estimated records, which are fair.
2000: Records good except for periods of estimated records, which are fair.

COOPERATION.--Sanitation District No. 1.

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	---	---	---	---	---	---	21	e7.4	.65	3.3	e1.2	.26
2	---	---	---	---	---	---	13	e6.0	20	9.7	e1.8	.22
3	---	---	---	---	---	---	39	7.6	6.5	3.7	e1.4	.16
4	---	---	---	---	---	---	34	7.2	2.5	1.9	1.1	.15
5	---	---	---	---	---	---	16	6.2	1.6	1.2	.44	.16
6	---	---	---	---	---	---	29	42	1.2	.80	.31	.13
7	---	---	---	---	---	---	15	11	.75	.62	.20	.09
8	---	---	---	---	---	---	13	6.6	.57	.30	88	.06
9	---	---	---	---	---	---	41	5.3	4.7	1.8	23	.02
10	---	---	---	---	---	---	19	4.4	3.9	81	4.4	.00
11	---	---	---	---	---	---	18	3.8	1.1	5.8	3.2	.00
12	---	---	---	---	---	---	12	3.2	5.9	2.3	1.7	.00
13	---	---	---	---	---	---	10	47	6.3	1.5	1.1	.00
14	---	---	---	---	---	---	9.4	38	45	.85	.72	.00
15	---	---	---	---	---	---	18	8.9	7.7	.50	.46	.00
16	---	---	---	---	---	---	26	5.6	2.7	.35	.32	.00
17	---	---	---	---	---	---	23	4.2	1.4	.25	.25	.00
18	---	---	---	---	---	---	19	11	.84	.97	.19	.00
19	---	---	---	---	---	---	18	12	.51	2.7	2.9	.00
20	---	---	---	---	---	---	13	4.1	.37	17	7.4	.00
21	---	---	---	---	---	---	239	2.8	.28	36	1.8	.00
22	---	---	---	---	---	---	55	2.3	.25	5.3	.69	.00
23	---	---	---	---	---	---	27	2.0	.25	2.2	.32	.00
24	---	---	---	---	---	---	18	24	9.6	.99	8.2	.00
25	---	---	---	---	---	---	15	5.5	17	.60	46	.00
26	---	---	---	---	---	---	14	2.8	3.8	67	18	.00
27	---	---	---	---	---	---	28	1.8	19	98	4.0	.00
28	---	---	---	---	---	---	36	1.5	86	8.7	1.8	.00
29	---	---	---	---	---	---	e14	1.0	37	4.4	1.1	14
30	---	---	---	---	---	---	e9.4	.80	6.2	2.9	.69	15
31	---	---	---	---	---	---	---	.62	---	2.0	.36	---
TOTAL	---	---	---	---	---	---	861.8	286.62	293.57	364.63	223.05	30.25
MEAN	---	---	---	---	---	---	28.7	9.25	9.79	11.8	7.20	1.01
MAX	---	---	---	---	---	---	239	47	86	98	88	15
MIN	---	---	---	---	---	---	9.4	.62	.25	.25	.19	.00

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

	1999	1999	1999	1999	1999	1999	1999
MEAN	---	---	---	---	---	28.7	9.25
MAX	---	---	---	---	---	28.7	9.25
(WY)	---	---	---	---	---	1999	1999
MIN	---	---	---	---	---	28.7	9.25
(WY)	---	---	---	---	---	1999	1999

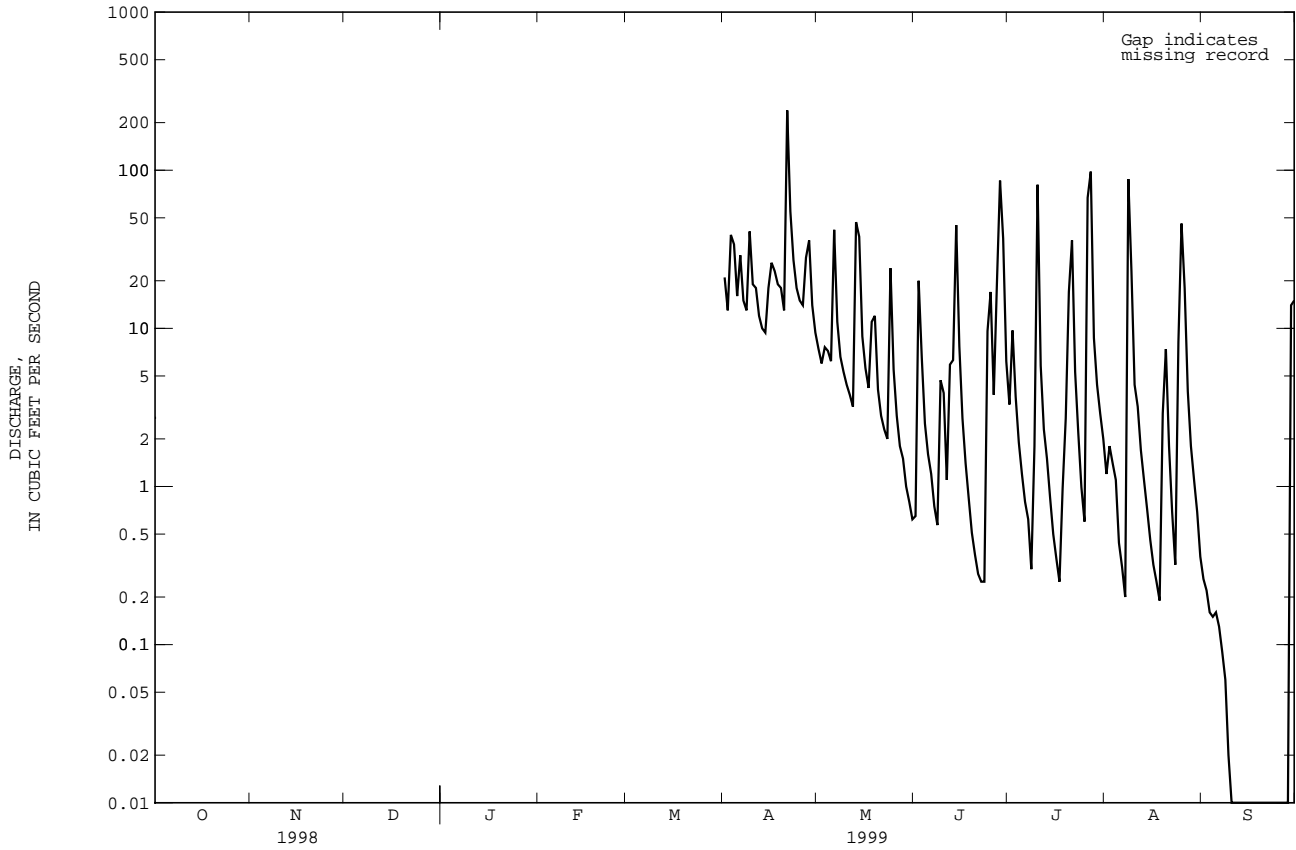
03277075 GUNPOWDER CREEK AT CAMP ERNST ROAD NEAR UNION, KY--Continued

SUMMARY STATISTICS

FOR 1999 WATER YEAR

HIGHEST DAILY MEAN	239	Apr 21
LOWEST DAILY MEAN	.00	Sep 10
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 10
INSTANTANEOUS PEAK FLOW	1280	Apr 21
INSTANTANEOUS PEAK STAGE	4.87	Apr 21
10 PERCENT EXCEEDS	32	
50 PERCENT EXCEEDS	2.9	
90 PERCENT EXCEEDS	.00	

e Estimated



GUNPOWDER CREEK BASIN

03277075 GUNPOWDER CREEK AT CAMP ERNST ROAD NEAR UNION, 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	2.7	.85	1.4	4.9	e6.6	18	17	7.7	10	2.7	11	2.0
2	.97	64	1.3	9.3	e6.0	15	182	28	8.0	2.1	3.6	1.7
3	.79	32	1.8	1370	e8.0	13	377	10	6.0	4.2	1.9	1.5
4	11	6.3	3.6	401	e8.9	12	272	63	4.4	8.5	2.4	1.9
5	3.9	3.3	8.6	59	e7.8	11	96	14	7.8	236	1.4	2.8
6	1.4	2.3	14	30	e7.0	10	51	9.5	8.6	36	1.1	1.7
7	.72	1.8	4.4	20	12	9.4	97	12	3.9	17	52	1.3
8	.67	1.6	2.7	15	26	9.5	546	10	3.0	8.0	42	1.0
9	e260	1.5	2.2	14	21	9.7	83	6.9	2.4	5.4	93	.77
10	e50	1.6	110	13	26	8.0	47	48	2.1	5.3	51	.95
11	12	1.3	17	10	39	49	34	11	1.7	40	7.6	7.3
12	4.9	1.1	114	8.2	17	41	28	7.4	2.5	11	3.8	41
13	2.7	1.0	209	33	1050	19	22	96	1.6	6.0	2.3	10
14	5.8	.94	295	12	535	14	19	20	3.7	3.9	1.7	3.5
15	3.3	.86	45	9.3	87	12	18	11	24	3.1	1.3	2.1
16	1.8	.75	21	9.4	46	182	16	7.5	185	2.3	1.1	1.4
17	1.7	.69	12	7.4	31	91	26	74	572	1.9	e1.0	1.1
18	1.6	.71	9.0	7.5	e1300	35	23	38	552	1.5	e56	.86
19	1.1	1.1	7.3	7.6	e600	230	14	14	79	125	e10	.72
20	.97	6.5	34	9.1	e220	445	122	12	33	19	e3.3	5.2
21	.77	4.5	15	11	e74	123	129	8.3	35	7.8	e3.8	24
22	.75	2.3	8.8	5.6	e35	59	50	6.6	18	4.3	3.3	4.3
23	.88	1.6	6.8	e5.0	36	39	29	14	11	3.1	3.1	95
24	.91	1.4	5.7	e4.4	45	29	23	7.8	8.0	3.6	137	60
25	.80	2.2	6.6	e3.9	32	23	19	4.8	31	1.9	19	361
26	.87	14	4.6	e3.5	26	19	15	3.4	9.7	2.0	8.3	357
27	.89	7.2	4.9	e3.2	44	33	13	310	9.7	3.0	5.4	32
28	.85	3.2	4.3	e3.1	25	112	11	181	7.7	1.6	3.9	17
29	.77	2.1	4.5	e2.9	20	38	9.6	53	4.6	1.8	3.1	10
30	.69	1.6	5.6	e3.0	---	24	8.5	22	3.2	6.3	2.4	7.2
31	1.0	---	6.4	e8.0	---	19	---	15	---	11	2.1	---
TOTAL	377.20	170.30	986.5	2103.3	4391.3	1751.6	2397.1	1125.9	1648.6	585.3	538.9	1056.30
MEAN	12.2	5.68	31.8	67.8	151	56.5	79.9	36.3	55.0	18.9	17.4	35.2
MAX	260	64	295	1370	1300	445	546	310	572	236	137	361
MIN	.67	.69	1.3	2.9	6.0	8.0	8.5	3.4	1.6	1.5	1.0	.72

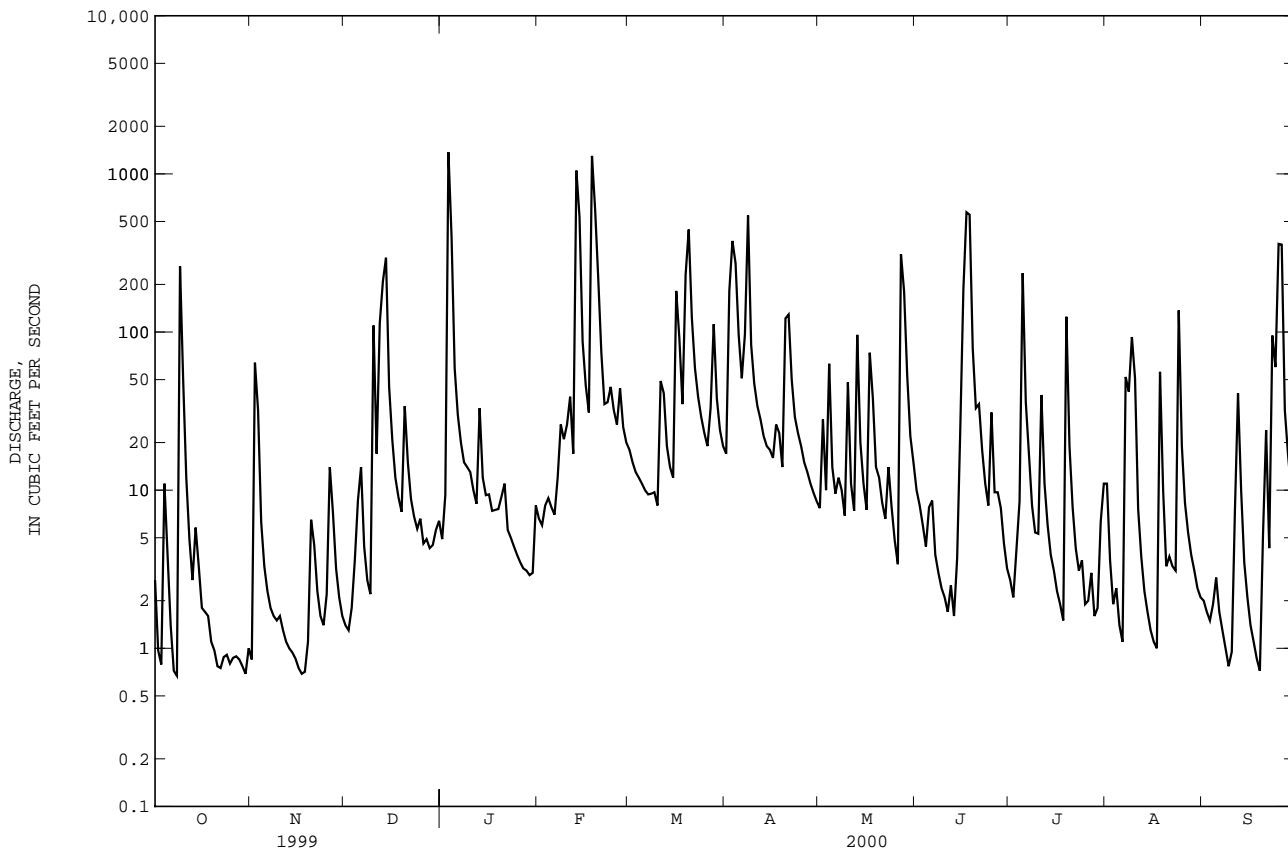
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	1999	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MEAN	12.2	5.68	31.8	67.8	151	56.5	54.3	22.8	32.4	15.3	12.3	18.1
MAX	12.2	5.68	31.8	67.8	151	56.5	79.9	36.3	55.0	18.9	17.4	35.2
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	12.2	5.68	31.8	67.8	151	56.5	28.7	9.25	9.79	11.8	7.20	1.01
(WY)	2000	2000	2000	2000	2000	2000	1999	1999	1999	1999	1999	1999

03277075 GUNPOWDER CREEK AT CAMP ERNST ROAD NEAR UNION, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL			17132.30			
ANNUAL MEAN			46.8		46.8	
HIGHEST ANNUAL MEAN					46.8	2000
LOWEST ANNUAL MEAN					46.8	2000
HIGHEST DAILY MEAN	295	Dec 14	1370	Jan 3	1370	Jan 3 2000
LOWEST DAILY MEAN	.00	Sep 10	.67	Oct 8	.00	Sep 10 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 10	.83	Oct 24	.00	Sep 10 1999
INSTANTANEOUS PEAK FLOW			5780	Jan 3	5780	Jan 3 2000
INSTANTANEOUS PEAK STAGE			7.95	Jan 3	7.95	Jan 3 2000
10 PERCENT EXCEEDS	33		95		59	
50 PERCENT EXCEEDS	2.7		8.6		7.0	
90 PERCENT EXCEEDS	.20		1.3		.69	

e Estimated



OHIO RIVER MAIN STEM

03277200 OHIO RIVER AT MARKLAND DAM NR 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 mi², 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 estimated period and those below 20,000 ft³/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.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

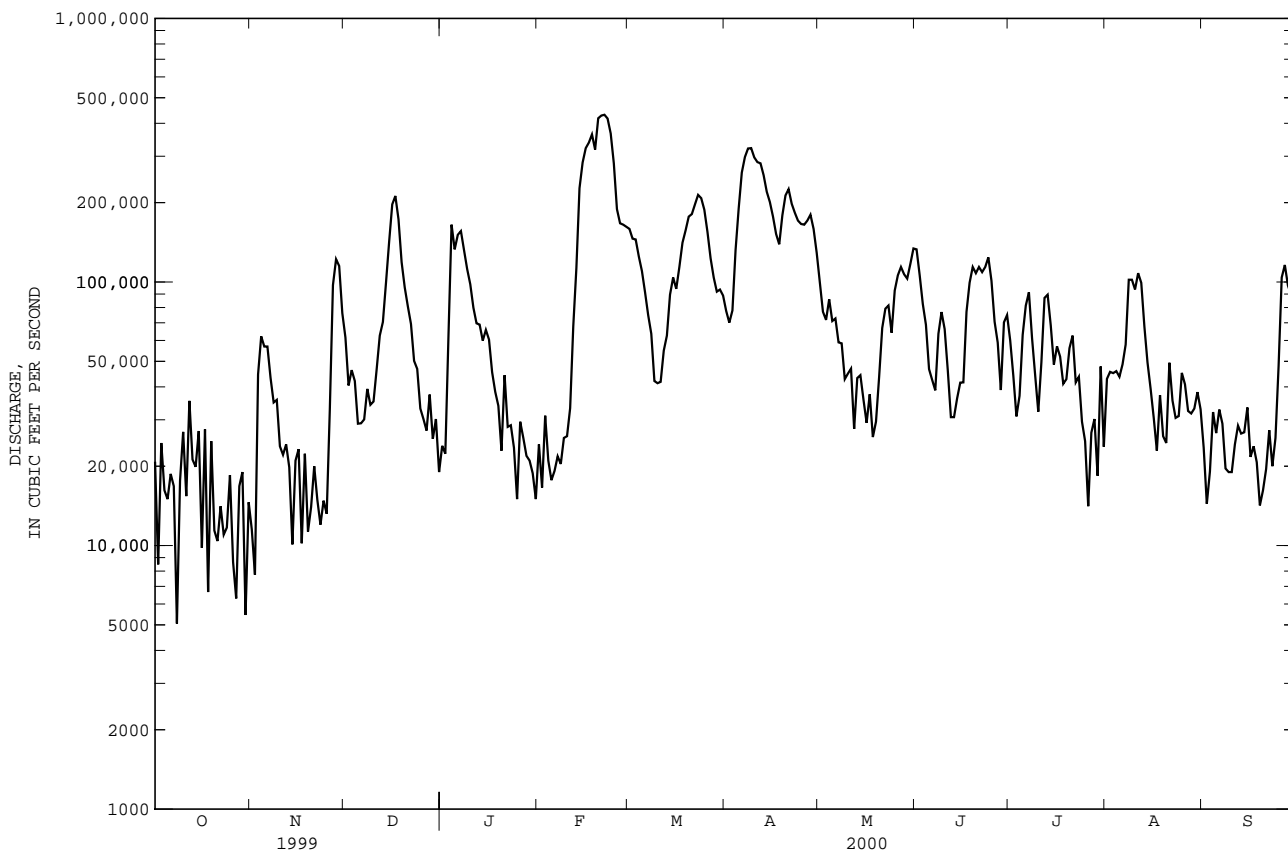
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20800	11500	61600	23900	24200	159000	77600	99700	133000	60000	42900	23500
2	8480	7750	40500	22300	16600	146000	70100	77100	106000	44100	45600	14400
3	24500	44600	46300	61800	31100	145000	78000	71800	82500	30900	45100	19100
4	16200	62200	42100	165000	21000	125000	132000	86000	68800	37000	45900	32100
5	15000	56900	29000	133000	17700	110000	190000	71100	46700	63000	43700	26700
6	18700	56900	29100	151000	19200	91400	260000	72700	42500	81400	48700	32800
7	16800	43300	30100	156000	21800	74900	298000	59000	38800	91400	57900	29000
8	5060	34900	39300	132000	20400	63600	321000	58500	63600	61300	102000	19600
9	17600	35700	34200	112000	25600	42100	322000	42800	76900	44300	102000	19000
10	27000	23800	35200	98000	26000	41300	297000	44900	66300	32200	93700	19000
11	15400	22100	46600	79900	33200	41800	285000	46900	46300	49600	108000	24200
12	35400	24200	62600	69700	67800	54900	282000	27700	30700	87000	99300	28500
13	21200	19800	70500	68900	113000	62600	254000	43200	30700	89500	67800	26600
14	19900	10100	99500	59900	227000	89500	220000	44300	36200	68400	49500	26900
15	27200	21000	142000	65800	284000	104000	201000	35700	41500	48600	39300	33400
16	9800	23200	197000	60500	322000	94200	177000	29200	41600	57000	30500	21700
17	27600	10200	212000	45500	338000	114000	152000	37500	77000	52100	22900	23800
18	6660	22300	173000	38300	363000	141000	139000	25800	99400	41100	37200	20700
19	24900	11300	119000	33900	318000	157000	179000	29500	114000	42800	26000	14200
20	11400	14000	95400	22900	418000	177000	213000	43500	108000	56100	24500	16200
21	10400	20000	80800	44300	428000	181000	225000	66900	114000	62600	49400	19500
22	14100	14900	69300	28200	431000	197000	198000	79200	109000	41600	35500	27400
23	11000	12000	50200	28600	417000	214000	183000	81400	114000	43700	30500	20000
24	11700	14800	46800	23500	366000	208000	171000	64200	124000	29500	31000	25600
25	18500	13200	33100	15000	282000	188000	166000	92800	101000	24900	45200	48000
26	8660	32900	30200	29500	189000	155000	165000	106000	70700	14100	40900	104000
27	6300	97300	27300	25600	167000	123000	171000	114000	58900	26800	32400	116000
28	16800	122000	37400	21900	165000	104000	180000	107000	38900	30200	31700	96900
29	19000	115000	25400	21000	162000	91900	159000	103000	70300	18400	33100	89500
30	5450	76200	30200	18800	---	93600	129000	117000	74900	47800	38200	55300
31	14600	---	19000	15000	---	88800	---	134000	---	23700	32900	---
TOTAL	506110	1074050	2054700	1871700	5314600	3678600	5894700	2112400	2226200	1501100	1533300	1073600
MEAN	16330	35800	66280	60380	183300	118700	196500	68140	74210	48420	49460	35790
MAX	35400	122000	212000	165000	431000	214000	322000	134000	133000	91400	108000	116000
MIN	5060	7750	19000	15000	16600	41300	70100	25800	30700	14100	22900	14200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2000, BY WATER YEAR (WY)

MEAN	47780	84460	139700	149700	178000	210800	179300	137100	90740	58390	44670	39090
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 NR WARSAW, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1970 - 2000	
ANNUAL TOTAL	26145410		28841060		113200	
ANNUAL MEAN	71630		78800		157300	
HIGHEST ANNUAL MEAN					60450	
LOWEST ANNUAL MEAN					579000	
HIGHEST DAILY MEAN	352000	Jan 27	431000	Feb 22	Mar 6 1997	
LOWEST DAILY MEAN	4000	Jul 12	5060	Oct 8	Jul 12 1999	
ANNUAL SEVEN-DAY MINIMUM	7540	Sep 23	11500	Oct 21	Jul 1 1988	
INSTANTANEOUS PEAK FLOW			432000		582000	
INSTANTANEOUS PEAK STAGE			48.44		60.72	
10 PERCENT EXCEEDS	196000		179000		259000	
50 PERCENT EXCEEDS	33100		46600		78700	
90 PERCENT EXCEEDS	7840		17700		20200	



KENTUCKY RIVER BASIN

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 mi².

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 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 4	0500	1,580	5.24	Jul 13	1415	*3,400	*8.55
Jul 5	1445	2,390	6.72				

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	6.3	4.8	13	6.9	e45	28	33	80	23	20	26	18
2	3.7	9.1	11	6.9	e35	26	33	75	20	15	45	14
3	2.5	29	10	6.8	e31	25	54	70	18	13	63	14
4	3.1	13	8.9	18	e28	24	919	133	18	19	40	14
5	10	9.0	8.7	20	e26	23	328	98	17	702	34	67
6	3.9	8.0	9.5	14	e24	22	201	84	21	210	27	26
7	2.8	7.5	8.1	12	e23	21	158	78	17	76	22	18
8	1.9	5.9	7.5	11	e22	20	137	70	16	49	20	16
9	5.4	6.1	6.8	49	e21	21	123	66	15	39	41	14
10	35	6.3	12	54	e20	20	111	60	14	32	103	13
11	49	9.2	13	37	54	62	103	56	14	158	48	19
12	16	7.3	9.3	27	66	98	100	53	13	131	34	14
13	10	6.7	17	26	92	62	91	50	12	980	27	16
14	11	5.4	69	e20	401	51	88	49	12	337	23	13
15	9.3	5.2	41	e15	100	44	85	44	11	371	20	12
16	7.8	5.1	27	e13	65	42	81	43	12	128	18	9.9
17	6.7	5.0	20	e12	51	61	86	42	12	80	17	9.6
18	6.2	4.8	15	24	57	55	98	41	13	62	16	9.4
19	6.4	4.5	13	27	77	52	105	42	13	54	16	9.3
20	13	4.7	12	40	64	81	99	55	13	48	15	8.7
21	11	4.7	11	e36	54	99	101	43	12	43	14	11
22	7.8	4.6	e10	e28	49	72	95	37	55	39	14	9.9
23	6.7	4.5	e9.0	e24	43	60	91	35	20	35	15	9.8
24	7.4	5.6	e8.5	e22	38	53	91	40	14	37	56	9.7
25	5.9	78	e8.0	e20	35	48	118	43	16	37	29	27
26	6.2	185	e7.7	e18	33	44	144	34	25	36	20	33
27	6.1	59	e7.4	e17	34	46	125	34	30	32	18	16
28	5.1	33	e7.2	e16	32	42	108	35	84	29	19	14
29	5.2	22	e7.0	20	28	37	95	30	36	28	16	11
30	5.1	16	e6.7	58	---	37	86	28	26	32	15	11
31	4.9	---	7.2	e65	---	35	---	26	---	27	14	---
TOTAL	281.4	569.0	421.5	763.6	1648	1411	4087	1674	622	3899	885	487.3
MEAN	9.08	19.0	13.6	24.6	56.8	45.5	136	54.0	20.7	126	28.5	16.2
MAX	49	185	69	65	401	99	919	133	84	980	103	67
MIN	1.9	4.5	6.7	6.8	20	20	33	26	11	13	14	8.7

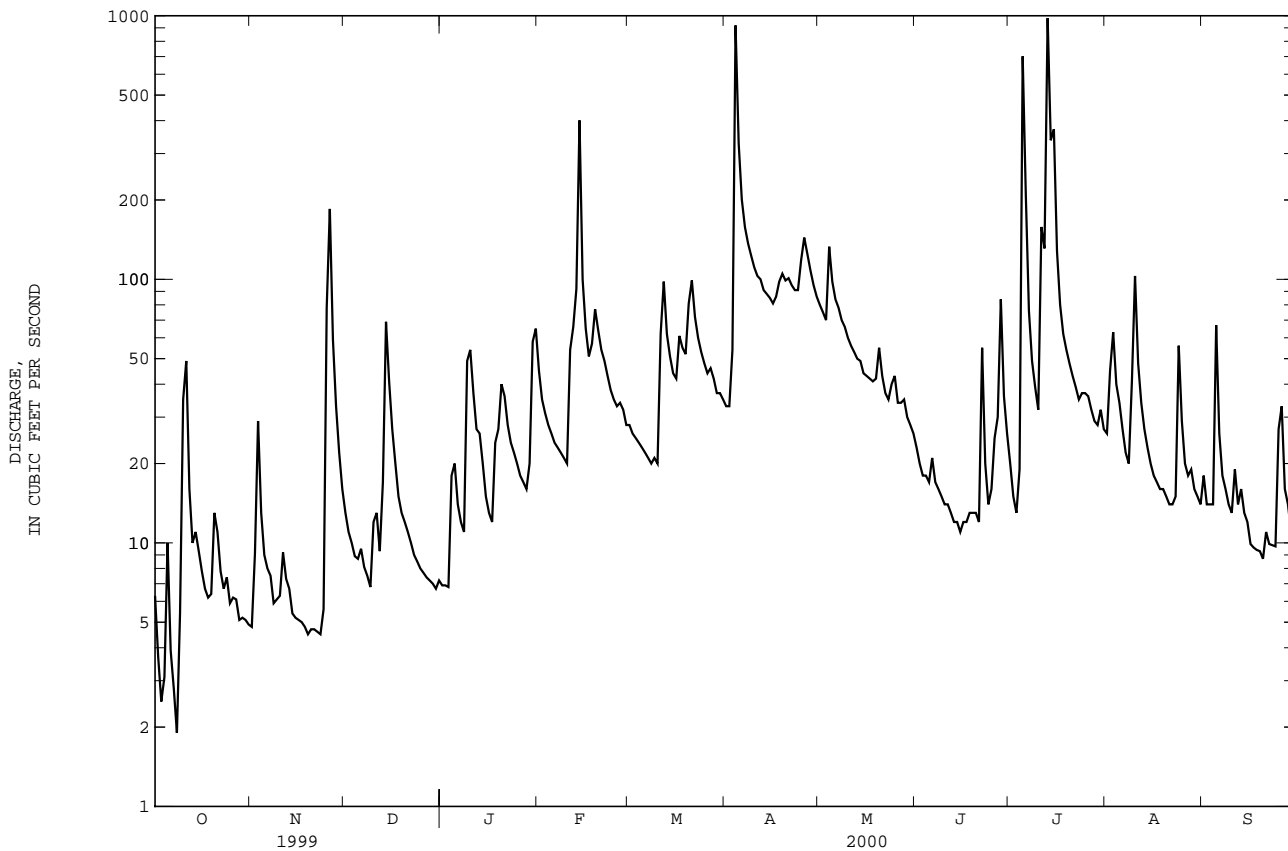
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000
MEAN	10.1	14.5	33.5	79.7	60.8	91.4	113	53.4	19.2	69.6	18.1	10.9
MAX (WY)	11.1	19.0	53.4	135	64.8	137	136	54.0	20.7	126	28.5	16.2
MIN (WY)	9.08	9.96	13.6	24.6	56.8	45.5	90.6	52.9	17.6	13.4	7.66	5.47

03277300 NORTH FORK KENTUCKY RIVER AT WHITESBURG, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL	17220.8		16748.8			
ANNUAL MEAN	47.2		45.8		47.9	
HIGHEST ANNUAL MEAN					50.0 1999	
LOWEST ANNUAL MEAN					45.8 2000	
HIGHEST DAILY MEAN	476	Jan 9	980	Jul 13	980	Jul 13 2000
LOWEST DAILY MEAN	1.9	Oct 8	1.9	Oct 8	1.9	Oct 8 1999
ANNUAL SEVEN-DAY MINIMUM	3.8	Sep 13	4.0	Oct 2	3.8	Sep 13 1999
INSTANTANEOUS PEAK FLOW			3400	Jul 13	7730	Jan 29 1957
INSTANTANEOUS PEAK STAGE			8.55	Jul 13	14.90	Jan 29 1957
10 PERCENT EXCEEDS	121		91		105	
50 PERCENT EXCEEDS	19		24		23	
90 PERCENT EXCEEDS	4.8		6.8		6.3	

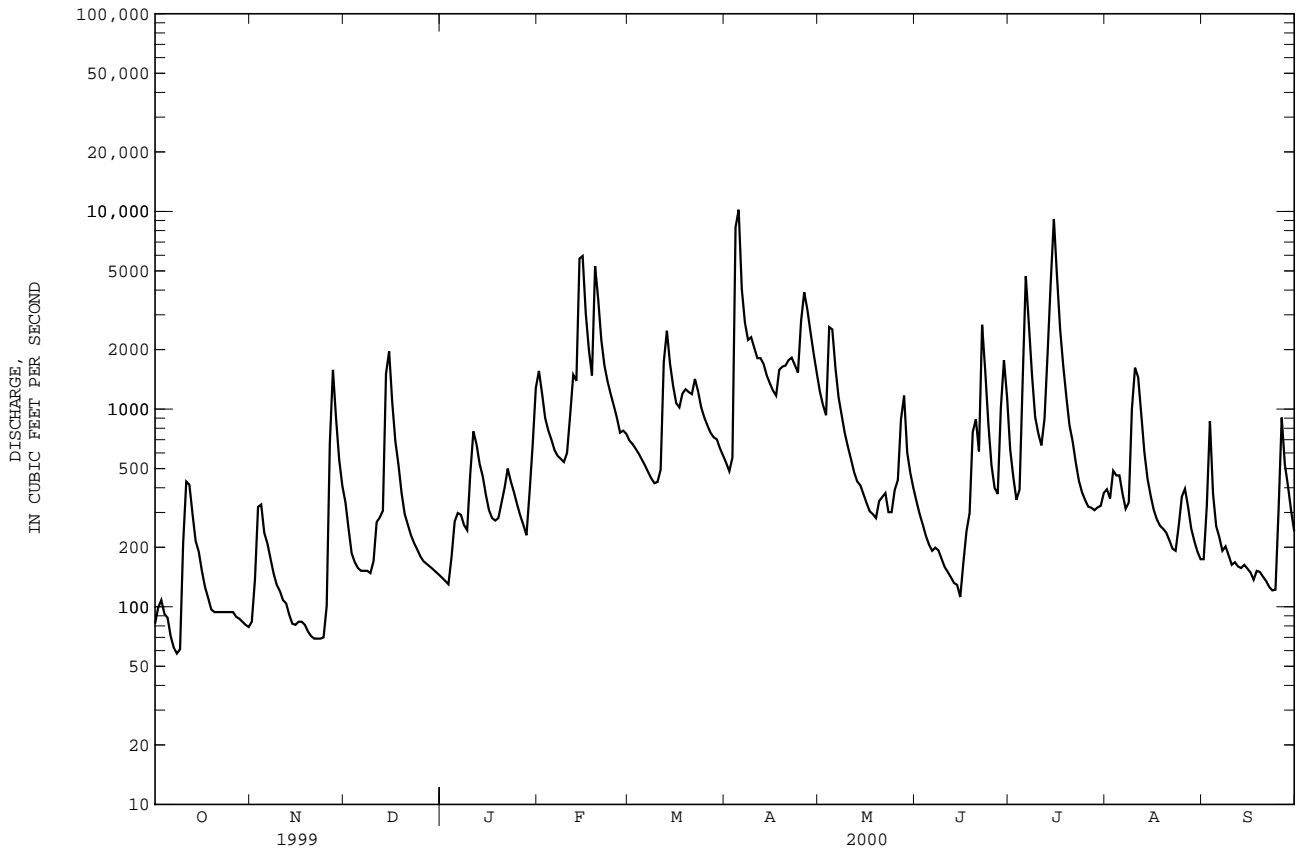
e Estimated



03280000 NORTH FORK KENTUCKY RIVER AT JACKSON, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1977 - 2000	
ANNUAL TOTAL	312835		290887		1374	
ANNUAL MEAN	857		795		2570	
HIGHEST ANNUAL MEAN					477	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	9970	Jan 24	10200	Apr 5	52200	May 8 1984
LOWEST DAILY MEAN	21	Sep 20	58	Oct 8	21	Sep 20 1999
ANNUAL SEVEN-DAY MINIMUM	26	Sep 17	72	Nov 18	26	Sep 17 1999
INSTANTANEOUS PEAK FLOW			13500	Apr 5	53500	Jan 30 1957
INSTANTANEOUS PEAK STAGE			19.07	Apr 5	43.10	Feb 4 1939
INSTANTANEOUS LOW FLOW					.00	Oct 16 1930
ANNUAL RUNOFF (CFSM)	.78		.72		1.25	
ANNUAL RUNOFF (INCHES)	10.57		9.83		16.96	
10 PERCENT EXCEEDS	2460		1740		3140	
50 PERCENT EXCEEDS	243		380		641	
90 PERCENT EXCEEDS	59		107		127	

e Estimated



KENTUCKY RIVER BASIN

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 mi².

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. 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 fair except for those estimated, which are poor.

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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 14	0200	1,500	5.19	Apr 3	2230	*4,480	*8.85

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	2.6	2.0	6.2	6.0	e45	46	23	61	11	16	6.1	7.4
2	1.4	6.0	5.6	6.4	e34	40	23	50	9.5	12	13	8.1
3	.93	11	5.4	6.2	e30	35	876	41	8.7	9.9	8.6	6.9
4	.88	3.8	e5.2	26	e27	32	1660	43	8.2	8.7	6.3	6.4
5	.84	2.7	e5.7	24	e25	28	372	29	12	37	10	5.6
6	.84	2.1	6.2	15	23	25	207	24	10	64	6.2	5.8
7	.94	1.9	6.2	12	22	22	140	20	7.8	18	5.3	5.4
8	.96	1.8	5.2	10	23	21	e170	18	6.5	11	11	5.2
9	2.2	2.1	4.9	39	24	22	e130	16	6.0	9.0	40	5.0
10	13	2.3	8.8	52	31	21	120	14	5.6	7.9	54	5.1
11	17	2.7	10	30	58	206	112	12	5.4	16	14	5.4
12	1.9	3.1	8.0	21	77	329	145	11	5.1	55	8.8	5.2
13	1.2	2.8	11	21	111	167	137	11	5.0	69	6.6	6.7
14	1.7	2.4	116	16	673	113	120	9.4	4.9	157	5.7	5.1
15	1.6	2.2	39	12	188	86	e99	8.1	13	211	5.1	4.8
16	1.2	2.0	19	12	110	76	e84	7.4	11	62	4.8	4.6
17	1.1	1.9	13	11	72	107	e120	6.8	7.9	25	5.1	4.6
18	1.2	1.9	12	16	102	93	171	6.8	15	16	6.3	4.7
19	1.4	1.8	9.7	18	177	88	161	9.0	16	19	5.6	4.7
20	2.3	1.9	8.2	35	132	90	141	12	13	15	4.6	4.6
21	2.3	1.8	e7.6	e23	97	72	130	8.8	22	10	4.6	4.5
22	2.1	1.8	e6.9	e18	79	61	112	7.1	161	8.3	4.5	4.6
23	1.9	1.7	e6.3	e14	62	55	98	9.6	29	7.2	5.7	4.9
24	1.9	2.3	e5.7	e12	50	51	101	148	14	6.8	157	4.9
25	1.7	61	e5.3	e11	43	46	213	98	11	6.6	31	29
26	1.8	111	e5.1	e10	37	43	216	50	11	6.0	13	26
27	1.7	33	e5.0	e9.3	e30	43	169	35	45	5.7	11	8.4
28	1.7	15	e4.9	e8.9	e42	39	133	30	177	5.3	9.9	5.0
29	1.8	10	e4.8	16	44	31	103	22	63	5.6	7.3	3.9
30	1.7	7.7	e4.7	81	---	29	79	16	26	8.5	6.2	3.2
31	1.8	---	5.9	79	---	25	---	13	---	6.8	6.5	---
TOTAL	75.59	303.7	367.5	670.8	2468	2142	6365	847.0	740.6	915.3	483.8	205.2
MEAN	2.44	10.1	11.9	21.6	85.1	69.1	212	27.3	24.7	29.5	15.6	6.84
MAX	17	111	116	81	673	329	1660	148	177	211	157	29
MIN	.84	1.7	4.7	6.0	22	21	23	6.8	4.9	5.3	4.5	3.2
CFSM	.04	.17	.19	.35	1.39	1.13	3.46	.45	.40	.48	.25	.11
IN.	.05	.18	.22	.41	1.50	1.30	3.86	.51	.45	.56	.29	.12

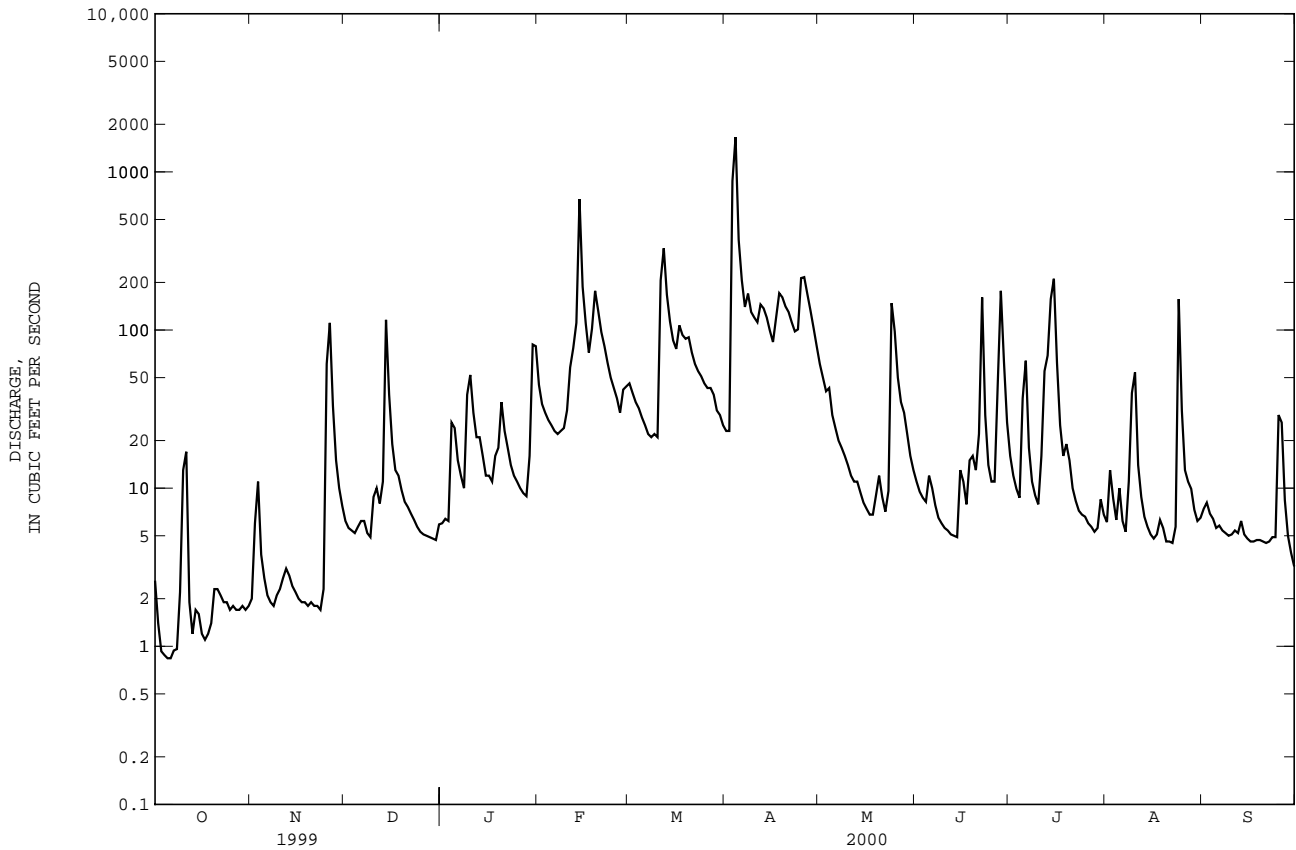
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2000, BY WATER YEAR (WY)

MEAN	26.6	61.5	107	145	166	199	165	114	56.5	31.7	23.2	17.6
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	6.09	3.30	6.97	27.0	21.4	16.6	14.0	3.17	2.17	1.16	.73
(WY)	1964	1999	1966	1981	1968	1988	1963	1964	1988	1970	1988	1969

03280700 CUTSHIN CREEK AT WOOTON, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1958 - 2000	
ANNUAL TOTAL	20612.14		15584.49		92.4	
ANNUAL MEAN	56.5		42.6		212	
HIGHEST ANNUAL MEAN					1974	
LOWEST ANNUAL MEAN					27.6	
HIGHEST DAILY MEAN	1020	Jan 9	1660	Apr 4	4890	May 7 1984
LOWEST DAILY MEAN	.37	Sep 12	.84	Oct 5	.00	Sep 29 1959
ANNUAL SEVEN-DAY MINIMUM	.53	Sep 7	.97	Oct 2	.01	Sep 11 1964
INSTANTANEOUS PEAK FLOW			4480	Apr 3	14200	Mar 12 1963
INSTANTANEOUS PEAK STAGE			8.85	Apr 3	16.23	Mar 12 1963
INSTANTANEOUS LOW FLOW					.00	Sep 29 1959
ANNUAL RUNOFF (CFSM)	.92		.69		1.51	
ANNUAL RUNOFF (INCHES)	12.51		9.46		20.48	
10 PERCENT EXCEEDS	145		112		202	
50 PERCENT EXCEEDS	8.8		11		33	
90 PERCENT EXCEEDS	1.2		2.1		2.8	

e Estimated



KENTUCKY RIVER BASIN

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 mi².

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. 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. Flow regulated by Buckhorn Lake beginning December 1960 (station 03280800).

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

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

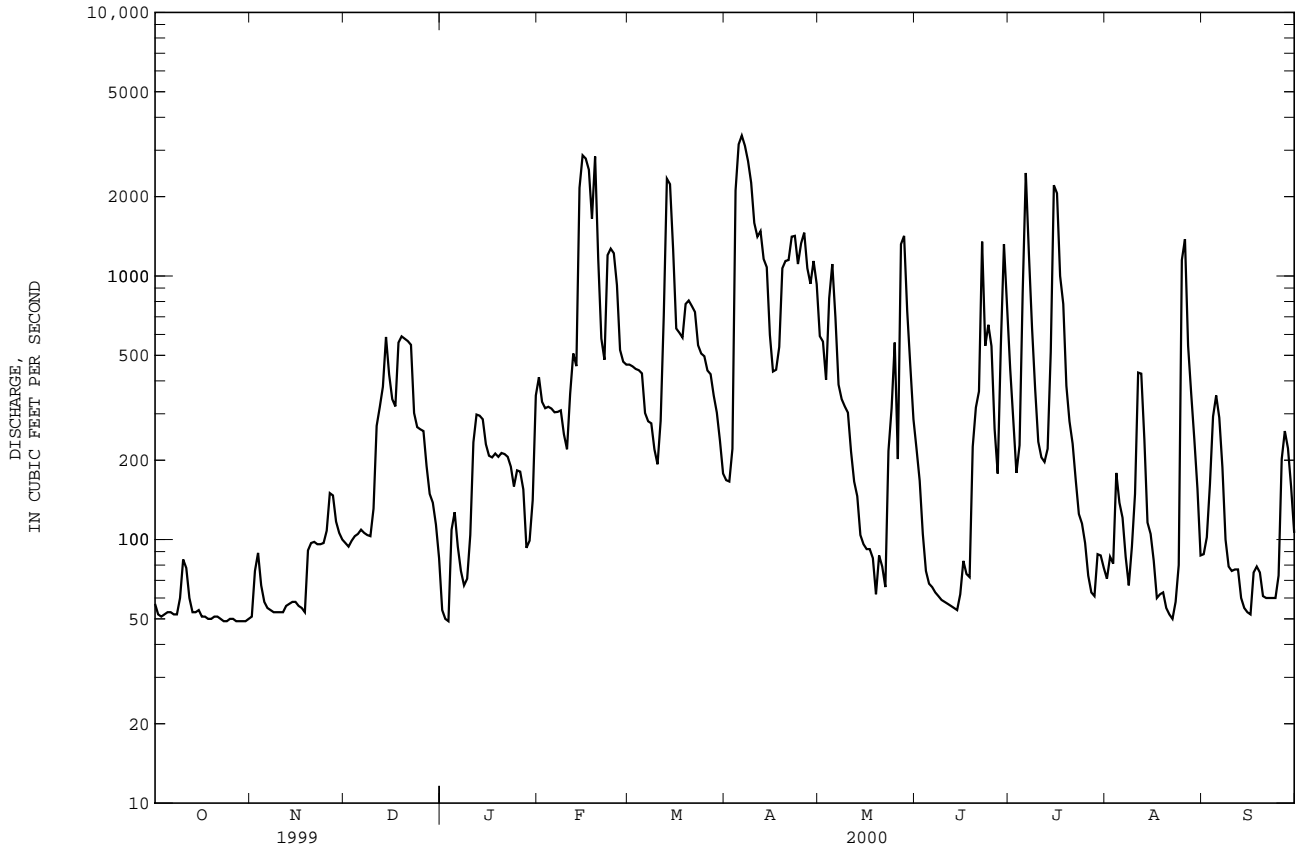
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	51	97	54	413	461	168	591	220	444	71	88
2	52	76	94	50	333	454	166	564	167	283	86	102
3	51	89	99	49	315	444	221	404	105	179	81	162
4	52	67	103	109	319	439	2110	823	76	228	179	293
5	53	58	105	127	314	427	3160	1110	68	864	138	352
6	53	55	109	94	304	302	3410	697	66	2460	121	290
7	52	54	106	76	305	281	3120	387	63	1210	86	188
8	52	53	104	67	309	276	2730	341	61	636	67	100
9	60	53	103	71	251	220	2260	320	59	372	94	79
10	84	53	131	104	220	193	1590	303	58	235	149	76
11	78	53	270	234	357	282	1410	216	57	205	430	77
12	60	56	318	298	508	707	1480	166	56	197	426	77
13	53	57	380	295	455	2340	1160	146	55	221	239	60
14	53	58	587	286	2160	2230	1080	104	54	515	116	55
15	54	58	423	230	2870	1260	598	96	62	2210	105	53
16	51	56	341	208	2790	632	434	92	83	2060	83	52
17	51	55	320	205	2530	609	441	92	74	1000	60	75
18	50	53	559	212	1650	584	538	85	72	783	62	79
19	50	91	590	206	2840	783	1070	62	225	383	63	75
20	51	97	578	213	1160	807	1140	87	317	281	55	61
21	51	98	566	211	579	769	1150	79	365	231	52	60
22	50	96	548	206	481	730	1410	66	1350	168	50	60
23	49	96	302	189	1200	546	1420	217	543	125	58	60
24	49	97	267	159	1270	508	1110	315	653	115	80	60
25	50	108	262	183	1220	496	1330	559	542	97	1150	73
26	50	150	258	181	923	438	1460	202	263	73	1380	202
27	49	147	190	155	524	424	1070	1320	178	63	544	258
28	49	117	149	93	473	352	934	1420	545	61	357	222
29	49	106	138	99	461	303	1140	735	1320	88	240	159
30	49	100	114	141	---	237	931	455	767	87	156	106
31	50	---	85	352	---	178	---	286	---	78	87	---
TOTAL	1662	2358	8296	5157	27534	18712	40241	12340	8524	15952	6865	3654
MEAN	53.6	78.6	268	166	949	604	1341	398	284	515	221	122
MAX	84	150	590	352	2870	2340	3410	1420	1350	2460	1380	352
MIN	49	51	85	49	220	178	166	62	54	61	50	52
CFSM	.10	.15	.50	.31	1.77	1.12	2.50	.74	.53	.96	.41	.23
IN.	.12	.16	.57	.36	1.91	1.30	2.79	.85	.59	1.11	.48	.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2000, BY WATER YEAR (WY)

	308	577	928	1302	1434	1675	1180	937	483	222	174	170
MEAN	308	577	928	1302	1434	1675	1180	937	483	222	174	170
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1961 - 2000	
ANNUAL TOTAL	197918		151295		780	
ANNUAL MEAN	542		413		1492	
HIGHEST ANNUAL MEAN					267	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	4990	Jan 9	3410	Apr 6	10300	Feb 27 1962
LOWEST DAILY MEAN	39	Sep 8	49	Oct 23	9.5	Oct 28 1998
ANNUAL SEVEN-DAY MINIMUM	40	Sep 7	49	Oct 23	12	Nov 9 1991
INSTANTANEOUS PEAK FLOW			3550	Apr 6	52700	Jan 30 1957
INSTANTANEOUS PEAK STAGE			13.42	Apr 6	43.33	Jan 30 1957
INSTANTANEOUS LOW FLOW					.10	Oct 12 1953
ANNUAL RUNOFF (CFSM)	1.01		.77		1.45	
ANNUAL RUNOFF (INCHES)	13.71		10.48		19.72	
10 PERCENT EXCEEDS	1890		1150		2500	
50 PERCENT EXCEEDS	104		190		300	
90 PERCENT EXCEEDS	48		53		63	



KENTUCKY RIVER BASIN

03281040 RED BIRD RIVER NEAR BIG CREEK, KY

LOCATION.--Lat 37°10'43", long 83°35'35" Clay County, Hydrologic Unit 05100203, on right bank adjacent to State Highway 66, 0.1 mi upstream from Fish Trap Branch, 0.6 mi downstream from Britton Branch, 1.2 mi downstream from Big Creek, 1.7 mi northwest of Big Creek, and at mile 58.9.

DRAINAGE AREA.--155 mi².

PERIOD OF RECORD.--August 1972 to current year.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 815.74 ft above NGVD of 1929.

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

COOPERATION.--Kentucky River Authority.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of 1947 and 1957 reached a stage of 29.27 ft and 27.60 ft, respectively, from floodmarks.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 4	0530	*7,440	*10.28	No other peak greater than base discharge.			

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	5.8	17	27	11	148	154	67	134	32	65	22	60
2	9.2	32	24	12	98	132	65	119	25	45	50	190
3	4.7	45	21	13	73	112	219	105	20	30	35	169
4	4.8	35	22	53	69	99	4580	133	17	21	22	105
5	6.1	19	22	111	62	86	1110	119	15	18	16	65
6	5.8	13	39	75	49	75	581	93	13	43	13	45
7	6.5	8.2	42	55	48	66	355	79	19	28	10	33
8	6.7	6.3	45	44	47	60	435	70	13	20	6.7	26
9	16	6.7	49	94	48	65	418	63	10	13	100	21
10	91	5.9	69	186	56	64	320	54	8.7	8.7	106	22
11	61	5.7	81	105	90	251	254	47	7.6	59	73	29
12	30	4.5	87	68	165	911	318	40	6.5	218	36	21
13	12	5.8	111	52	191	495	306	36	5.7	84	21	17
14	7.6	7.4	252	47	2290	296	279	32	4.8	73	14	14
15	4.6	5.1	139	35	672	202	230	27	8.4	384	9.7	11
16	3.4	4.4	79	31	333	165	188	21	20	162	7.5	8.4
17	3.7	4.1	54	29	192	195	218	18	23	78	9.7	6.9
18	2.4	3.9	40	32	246	170	367	17	20	47	37	6.1
19	2.5	4.5	31	46	644	167	366	21	49	34	24	5.8
20	2.7	6.2	27	63	472	175	310	39	50	37	11	5.6
21	2.3	7.1	22	e75	281	161	544	36	43	30	6.5	6.1
22	2.5	13	21	e50	199	145	400	24	401	19	4.5	7.2
23	2.7	16	19	e39	156	134	295	21	120	14	6.0	9.8
24	2.5	19	18	e31	136	127	260	102	54	11	1700	15
25	3.1	43	16	e27	120	119	568	189	33	8.6	443	62
26	4.4	200	14	e22	110	108	593	159	27	7.7	159	106
27	4.9	106	12	e19	121	106	439	97	30	6.9	106	52
28	6.4	62	12	e17	163	103	321	83	432	5.9	99	27
29	8.9	43	12	e23	163	89	222	75	214	5.4	64	17
30	9.4	33	12	217	---	81	162	58	106	11	45	12
31	14	---	12	252	---	76	---	43	---	23	34	---
TOTAL	347.6	781.8	1431	1934	7442	5189	14790	2154	1827.7	1610.2	3290.6	1174.9
MEAN	11.2	26.1	46.2	62.4	257	167	493	69.5	60.9	51.9	106	39.2
MAX	91	200	252	252	2290	911	4580	189	432	384	1700	190
MIN	2.3	3.9	12	11	47	60	65	17	4.8	5.4	4.5	5.6
CFSM	.07	.17	.30	.40	1.66	1.08	3.18	.45	.39	.34	.68	.25
IN.	.08	.19	.34	.46	1.79	1.25	3.55	.52	.44	.39	.79	.28

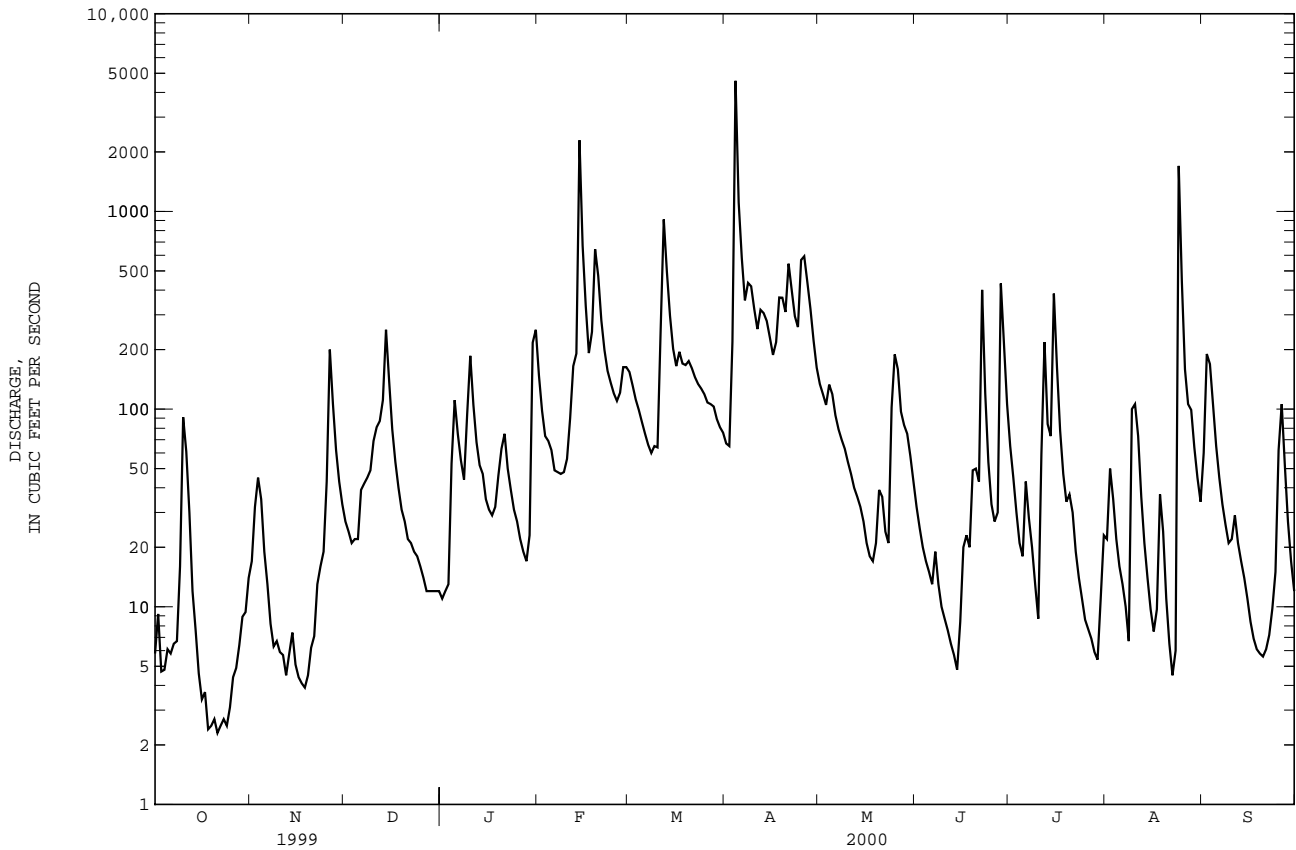
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2000, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)								
MEAN	80.8	219	358	456	489	589	444	329	167	77.2	51.3	36.9
MAX	758	796	1180	1150	1244	1678	1233	1176	998	351	192	138
(WY)	1990	1978	1991	1974	1994	1975	1998	1984	1989	1992	1990	1979
MIN	3.93	7.84	37.5	19.0	164	99.6	60.8	41.2	10.3	5.28	2.51	1.70
(WY)	1979	1988	1981	1981	1988	1988	1986	1986	1988	1988	1988	1999

03281040 RED BIRD RIVER NEAR BIG CREEK, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1973 - 2000	
ANNUAL TOTAL	63797.52		41972.8		274	
ANNUAL MEAN	175		115		513	
HIGHEST ANNUAL MEAN					92.2	
LOWEST ANNUAL MEAN					16200	
HIGHEST DAILY MEAN	5640	Jan 9	4580	Apr 4		May 7 1984
LOWEST DAILY MEAN	.80	Sep 19	2.3	Oct 21	.20	Oct 4 1983
ANNUAL SEVEN-DAY MINIMUM	1.0	Sep 13	2.5	Oct 18	.52	Sep 5 1995
INSTANTANEOUS PEAK FLOW			7440	Apr 4	28500	Oct 17 1989
INSTANTANEOUS PEAK STAGE			10.28	Apr 4	21.14	Oct 17 1989
INSTANTANEOUS LOW FLOW					.20	Oct 4 1983
ANNUAL RUNOFF (CFSM)	1.13		.74		1.77	
ANNUAL RUNOFF (INCHES)	15.31		10.07		24.01	
10 PERCENT EXCEEDS	441		253		590	
50 PERCENT EXCEEDS	32		43		93	
90 PERCENT EXCEEDS	3.4		6.1		6.8	

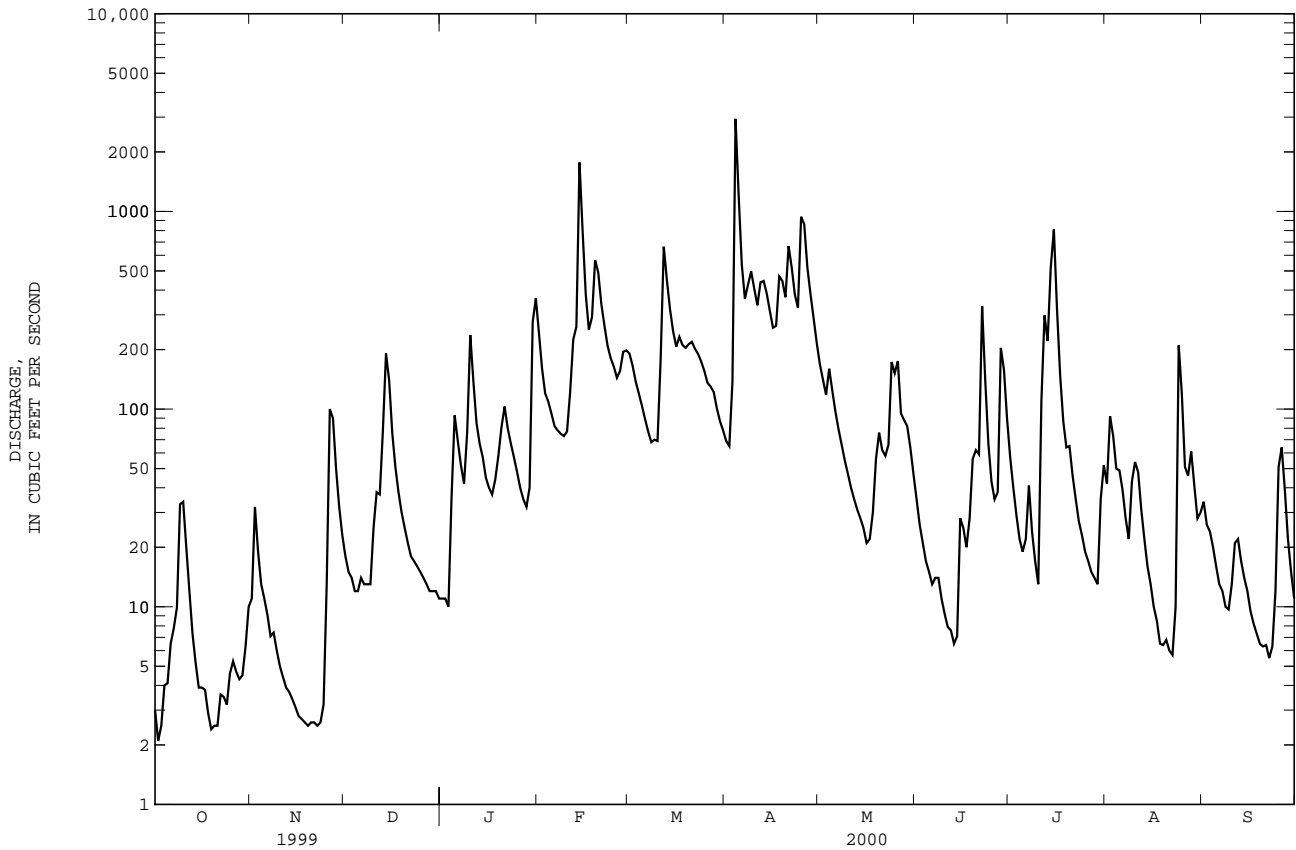
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03281100 GOOSE CREEK AT MANCHESTER, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1965 - 2000	
ANNUAL TOTAL	57870.90	42430.4		
ANNUAL MEAN	159	116	261	
HIGHEST ANNUAL MEAN			456	1994
LOWEST ANNUAL MEAN			107	1988
HIGHEST DAILY MEAN	5560 Jan 9	2940 Apr 4	13700	May 7 1984
LOWEST DAILY MEAN	.85 Sep 19	2.1 Oct 2	.00	Oct 8 1980
ANNUAL SEVEN-DAY MINIMUM	1.1 Sep 13	2.6 Nov 17	.16	Oct 4 1980
INSTANTANEOUS PEAK FLOW		3870 Apr 4	19200	May 7 1984
INSTANTANEOUS PEAK STAGE		16.20 Apr 4	32.85	May 7 1984
INSTANTANEOUS LOW FLOW			.00	Oct 8 1980
ANNUAL RUNOFF (CFSM)	.97	.71	1.60	
ANNUAL RUNOFF (INCHES)	13.21	9.68	21.79	
10 PERCENT EXCEEDS	401	315	560	
50 PERCENT EXCEEDS	20	40	89	
90 PERCENT EXCEEDS	2.9	5.4	6.0	

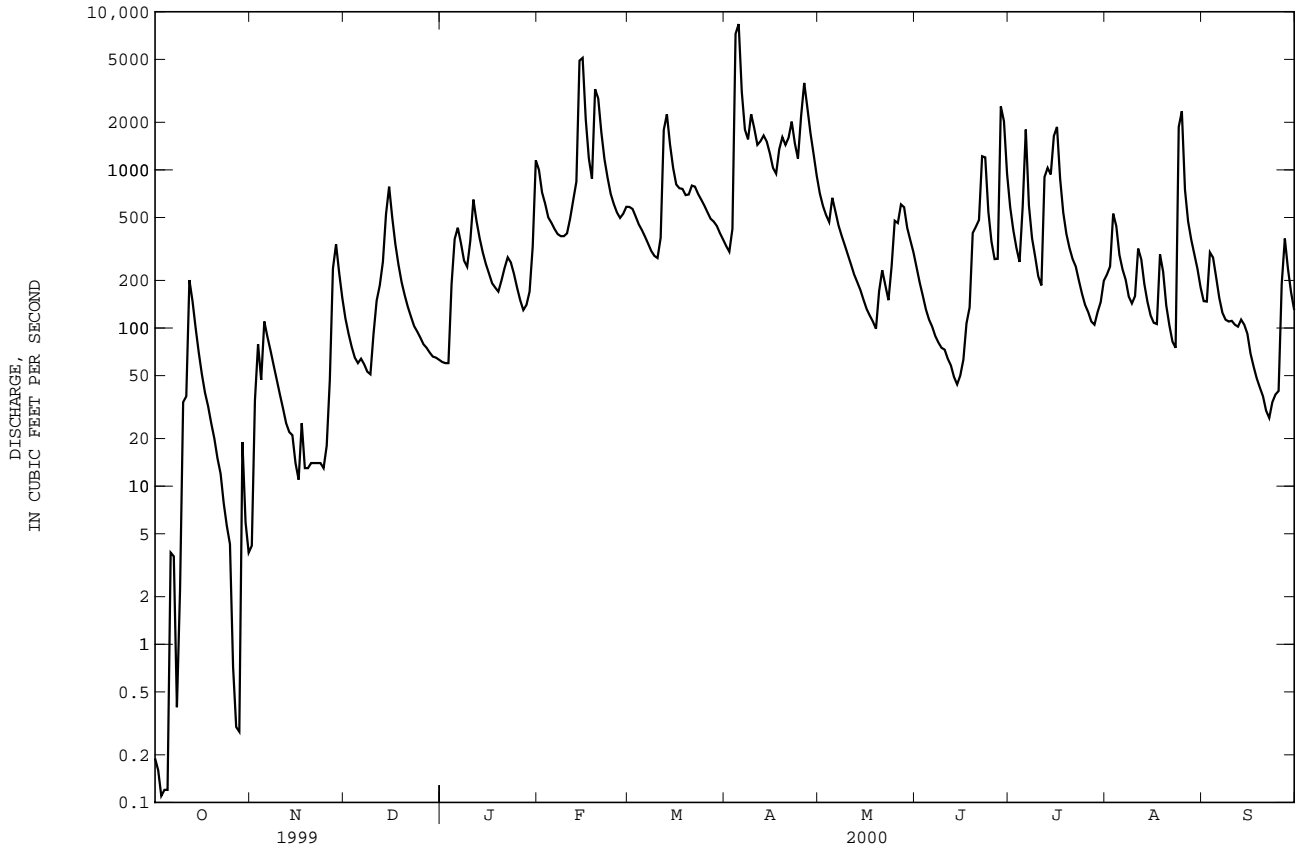
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03281500 SOUTH FORK KENTUCKY RIVER AT BOONEVILLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1925 - 2000	
ANNUAL TOTAL	235898.97		185531.60		1050	
ANNUAL MEAN	646		507		1808	
HIGHEST ANNUAL MEAN					413	
LOWEST ANNUAL MEAN					1994	
HIGHEST DAILY MEAN	14600	Jan 10	8360	Apr 5	51300	Jan 30 1957
LOWEST DAILY MEAN	.10	Sep 28	.11	Oct 3	.00	Oct 11 1953
ANNUAL SEVEN-DAY MINIMUM	.13	Sep 23	1.2	Oct 1	.00	Oct 11 1953
INSTANTANEOUS PEAK FLOW			11800	Apr 4	66100	Jan 30 1957
INSTANTANEOUS PEAK STAGE			20.65	Apr 4	43.40	Jan 30 1957
INSTANTANEOUS LOW FLOW					.00	Oct 11 1953
ANNUAL RUNOFF (CFSM)	.90		.70		1.45	
ANNUAL RUNOFF (INCHES)	12.15		9.56		19.77	
10 PERCENT EXCEEDS	1560		1380		2390	
50 PERCENT EXCEEDS	116		237		354	
90 PERCENT EXCEEDS	2.2		25		26	

e Estimated



KENTUCKY RIVER BASIN

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 mi².

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. 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 ft³/s and for those estimated, which are poor. Flow regulated by 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	106	752	e260	2680	2110	1290	3290	1100	2310	872	441
2	101	263	608	251	2500	2040	1210	2740	893	1520	1410	452
3	131	453	493	254	2050	1900	1420	2340	656	1120	2180	838
4	191	550	404	1070	1830	1780	13100	3600	530	919	1600	1450
5	207	563	371	1250	1680	1670	27300	5990	462	1750	1340	1100
6	179	468	382	1140	1550	1500	18400	4520	427	8280	1090	832
7	147	384	381	965	1510	1350	10100	2860	383	7290	809	629
8	125	334	368	763	1490	1270	7740	2190	354	3670	708	458
9	183	285	352	670	1470	1180	7910	1870	351	2240	1560	404
10	380	249	421	783	1450	1110	6690	1610	326	1560	2460	378
11	522	220	769	1500	1800	1280	5580	1380	309	1420	2960	352
12	771	199	1130	1760	2660	3570	5870	1170	288	1780	2240	356
13	744	187	1450	1500	3150	7390	5770	1080	264	2630	1550	350
14	556	172	2320	1280	11800	6680	5090	942	248	4470	1020	330
15	405	160	3700	1100	18800	4620	4190	795	271	12200	753	347
16	325	142	2890	900	11700	3290	3390	706	341	13900	601	324
17	268	139	1850	782	7190	3030	3080	639	387	6620	e520	304
18	223	151	1530	e730	5160	2920	3740	596	622	3800	e950	305
19	184	156	1420	e700	11900	3180	4750	549	1330	2500	e680	301
20	166	195	1240	e730	12700	3310	4820	649	2240	1820	e540	299
21	151	201	1080	e800	6820	3490	4850	818	2350	1460	460	296
22	136	200	979	e900	4590	3390	5780	759	8140	1260	405	289
23	124	200	728	e1100	4030	3270	5220	753	5830	1010	397	279
24	120	211	517	e950	3730	2810	4480	1040	2900	806	1240	362
25	115	249	410	e770	3320	2510	6290	1370	1940	713	4080	538
26	112	353	e370	e630	2860	2260	10900	1430	1360	629	2710	1080
27	111	1330	e340	e550	2320	2080	9020	2210	1260	569	1710	1620
28	107	2160	e320	e510	2110	1930	6790	3780	3270	529	1230	1200
29	102	1450	e300	e490	2150	1750	5370	2700	5160	573	930	890
30	106	1020	e280	e630	---	1600	4330	1750	3870	857	726	638
31	105	---	e270	e1500	---	1400	---	1370	---	844	537	---
TOTAL	7187	12750	28425	27218	137000	81670	204470	57496	47862	91049	40268	17442
MEAN	232	425	917	878	4724	2635	6816	1855	1595	2937	1299	581
MAX	771	2160	3700	1760	18800	7390	27300	5990	8140	13900	4080	1620
MIN	90	106	270	251	1450	1110	1210	549	248	529	397	279
CFSM	.09	.16	.35	.33	1.78	.99	2.57	.70	.60	1.11	.49	.22
IN.	.10	.18	.40	.38	1.92	1.14	2.86	.80	.67	1.27	.56	.24

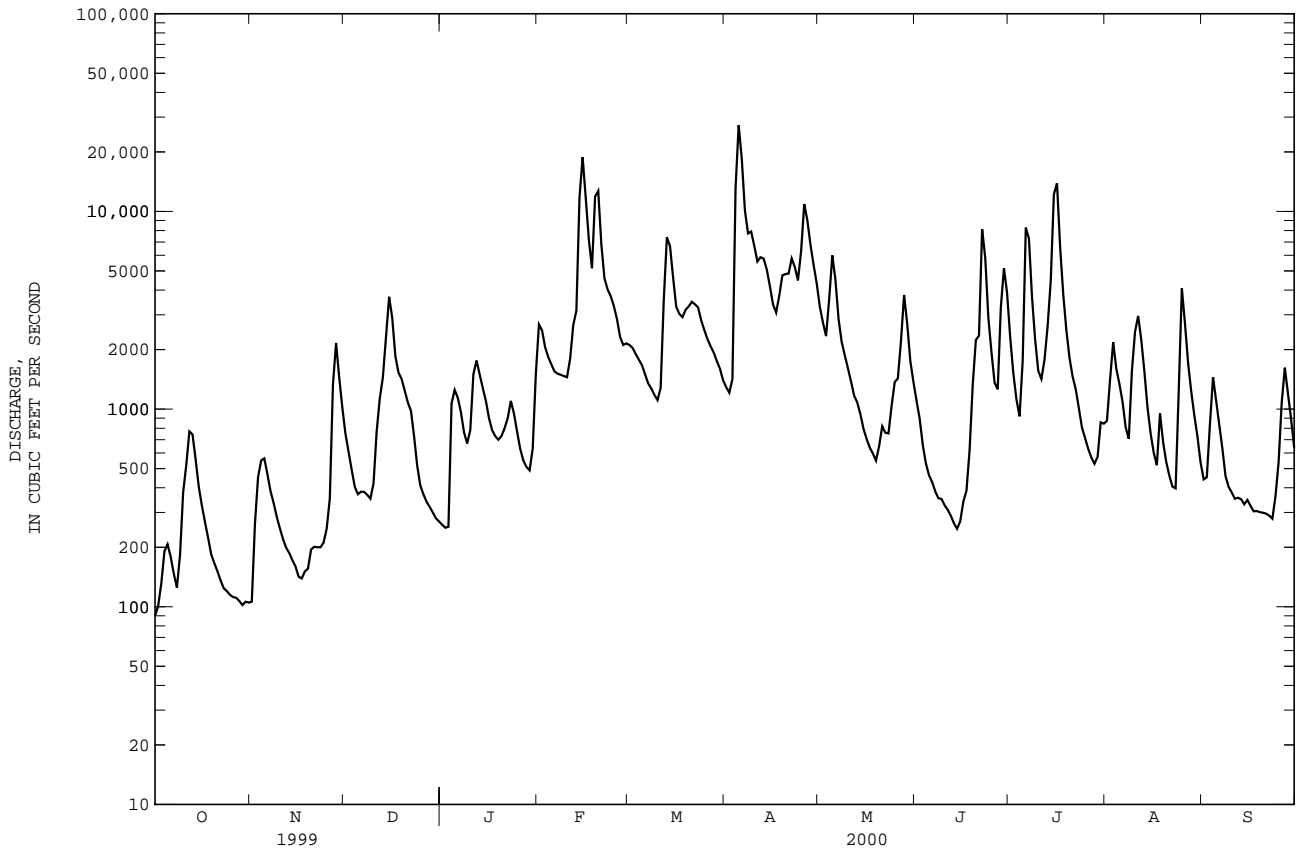
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2000, BY WATER YEAR (WY)

MEAN	1326	2652	4729	5878	7077	7634	6110	4852	2630	1187	952	725
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1977 - 2000	
ANNUAL TOTAL	904855		752837		3797	
ANNUAL MEAN	2479		2057		6973	
HIGHEST ANNUAL MEAN					1461	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	35500	Jan 10	27300	Apr 5	85900	May 8 1984
LOWEST DAILY MEAN	48	Sep 16	90	Oct 1	45	Jul 10 1988
ANNUAL SEVEN-DAY MINIMUM	51	Sep 11	107	Oct 26	51	Sep 11 1999
INSTANTANEOUS PEAK FLOW			28500		120000	
INSTANTANEOUS PEAK STAGE			17.11		35.60	
INSTANTANEOUS LOW FLOW					4.0	
ANNUAL RUNOFF (CFSM)	.93		.77		1.43	
ANNUAL RUNOFF (INCHES)	12.67		10.54		19.41	
10 PERCENT EXCEEDS	7350		5110		9640	
50 PERCENT EXCEEDS	501		1080		1610	
90 PERCENT EXCEEDS	104		217		274	

e Estimated



KENTUCKY RIVER BASIN

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 mi².

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.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 4	0500	2,060	8.02	Jun 22	0115	*2,330	*8.44

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	4.6	1.1	1.5	e3.4	e70	e47	33	67	16	42	10	3.2
2	4.0	34	1.2	e3.3	e60	e45	31	57	12	26	10	2.8
3	3.3	26	1.1	3.6	55	e40	236	47	8.7	17	11	2.5
4	3.1	5.7	1.4	152	54	e37	1400	40	6.5	16	18	2.3
5	2.8	2.4	2.4	100	47	e35	439	65	5.6	120	19	1.8
6	2.3	.78	8.8	51	42	e33	249	45	5.7	204	8.7	1.5
7	2.0	.56	12	33	43	e31	167	35	5.0	116	6.0	1.3
8	1.8	.52	7.7	23	49	e28	188	28	3.9	57	4.6	1.2
9	4.0	.87	6.5	27	52	e30	169	22	3.2	33	4.5	1.2
10	16	.48	19	53	58	e28	144	17	2.7	21	11	1.2
11	2.0	.70	23	46	100	118	131	14	2.4	40	8.2	1.2
12	.91	.67	16	34	91	313	203	11	2.1	221	5.6	1.2
13	.57	.75	e100	29	116	179	179	10	1.8	113	3.6	1.0
14	1.3	.75	e140	22	e730	131	153	8.9	1.7	75	2.6	.94
15	2.0	.75	57	16	e310	104	127	6.8	5.6	212	2.0	.89
16	2.6	.75	29	15	e180	92	106	5.7	13	108	1.6	.66
17	1.8	1.8	17	e13	e120	128	104	5.0	6.2	58	12	.51
18	1.2	1.8	12	e12	143	105	127	4.7	5.1	34	49	.40
19	.77	1.3	9.9	15	e600	104	111	4.3	280	25	9.8	.33
20	.75	.75	8.4	20	e240	116	100	6.2	113	22	4.7	.41
21	.67	.74	e6.7	e18	e140	141	94	7.5	70	15	2.8	.50
22	.67	.67	e5.6	e15	e110	131	86	6.7	609	11	2.0	.50
23	.87	.67	e5.0	e13	e100	117	73	5.7	119	8.9	1.9	.46
24	2.3	1.1	e4.5	e11	e88	103	71	57	60	7.1	170	.46
25	3.0	2.8	e4.0	e9.5	e75	89	242	30	34	5.9	71	.95
26	2.2	7.6	3.9	e8.5	e63	73	257	15	22	5.2	29	11
27	2.2	8.3	3.8	e7.5	e60	69	185	255	46	7.2	18	5.7
28	1.6	5.2	3.7	e7.0	e65	61	142	143	498	5.3	17	2.3
29	4.6	3.5	3.6	e9.5	e50	48	110	66	141	4.5	10	1.2
30	1.3	3.3	e3.5	60	---	43	85	41	72	11	6.2	.90
31	2.3	---	e3.4	110	---	38	---	26	---	12	4.4	---
TOTAL	79.51	116.31	521.6	940.3	3911	2657	5742	1152.5	2171.2	1653.1	534.2	50.51
MEAN	2.56	3.88	16.8	30.3	135	85.7	191	37.2	72.4	53.3	17.2	1.68
MAX	16	34	140	152	730	313	1400	255	609	221	170	11
MIN	.57	.48	1.1	3.3	42	28	31	4.3	1.7	4.5	1.6	.33
CFSM	.03	.05	.22	.39	1.74	1.11	2.48	.48	.94	.69	.22	.02
IN.	.04	.06	.25	.45	1.88	1.28	2.76	.55	1.04	.80	.26	.02

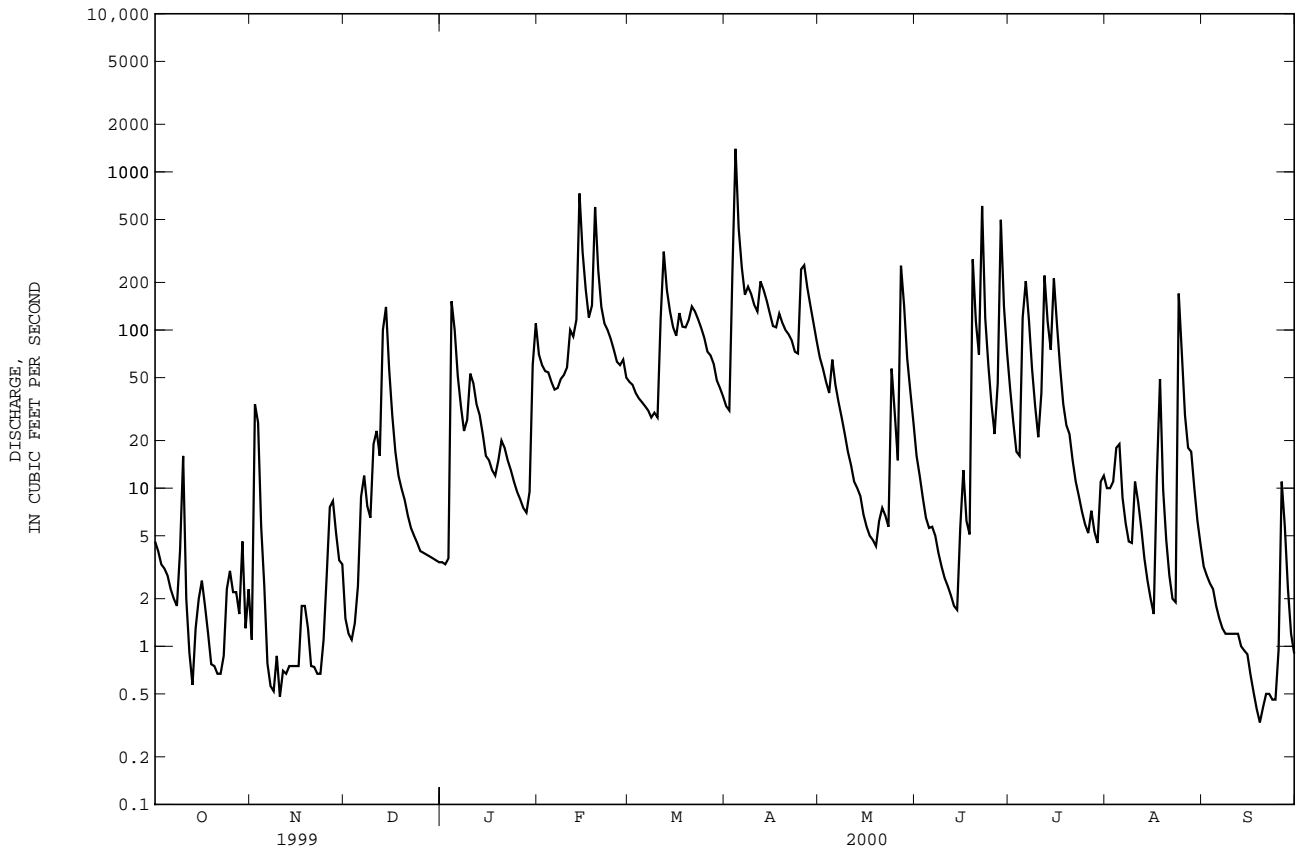
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2000, BY WATER YEAR (WY)

MEAN	30.2	75.8	107	235	193	271	193	135	105	21.9	14.6	13.9
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	2.46	3.88	16.8	30.3	92.0	85.7	49.6	26.1	2.20	1.22	.11	1.30
(WY)	1999	2000	2000	2000	1997	2000	1997	1993	1999	1999	1999	1999

03282040 STURGEON CREEK AT CRESSMONT, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1993 - 2000	
ANNUAL TOTAL	24908.15		19529.23		116	
ANNUAL MEAN	68.2		53.4		195	
HIGHEST ANNUAL MEAN					53.4	
LOWEST ANNUAL MEAN					1994	
HIGHEST DAILY MEAN	3020	Jan 9	1400	Apr 4	4230	Mar 3 1997
LOWEST DAILY MEAN	.00	Aug 18	.33	Sep 19	.00	Aug 18 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 18	.44	Sep 18	.00	Aug 18 1999
INSTANTANEOUS PEAK FLOW			2330		8340	
INSTANTANEOUS PEAK STAGE			8.44		14.84	
INSTANTANEOUS LOW FLOW					.00	
ANNUAL RUNOFF (CFSM)	.88		.69		1.50	
ANNUAL RUNOFF (INCHES)	11.99		9.40		20.38	
10 PERCENT EXCEEDS	165		140		266	
50 PERCENT EXCEEDS	3.9		13		42	
90 PERCENT EXCEEDS	.01		1.1		2.0	

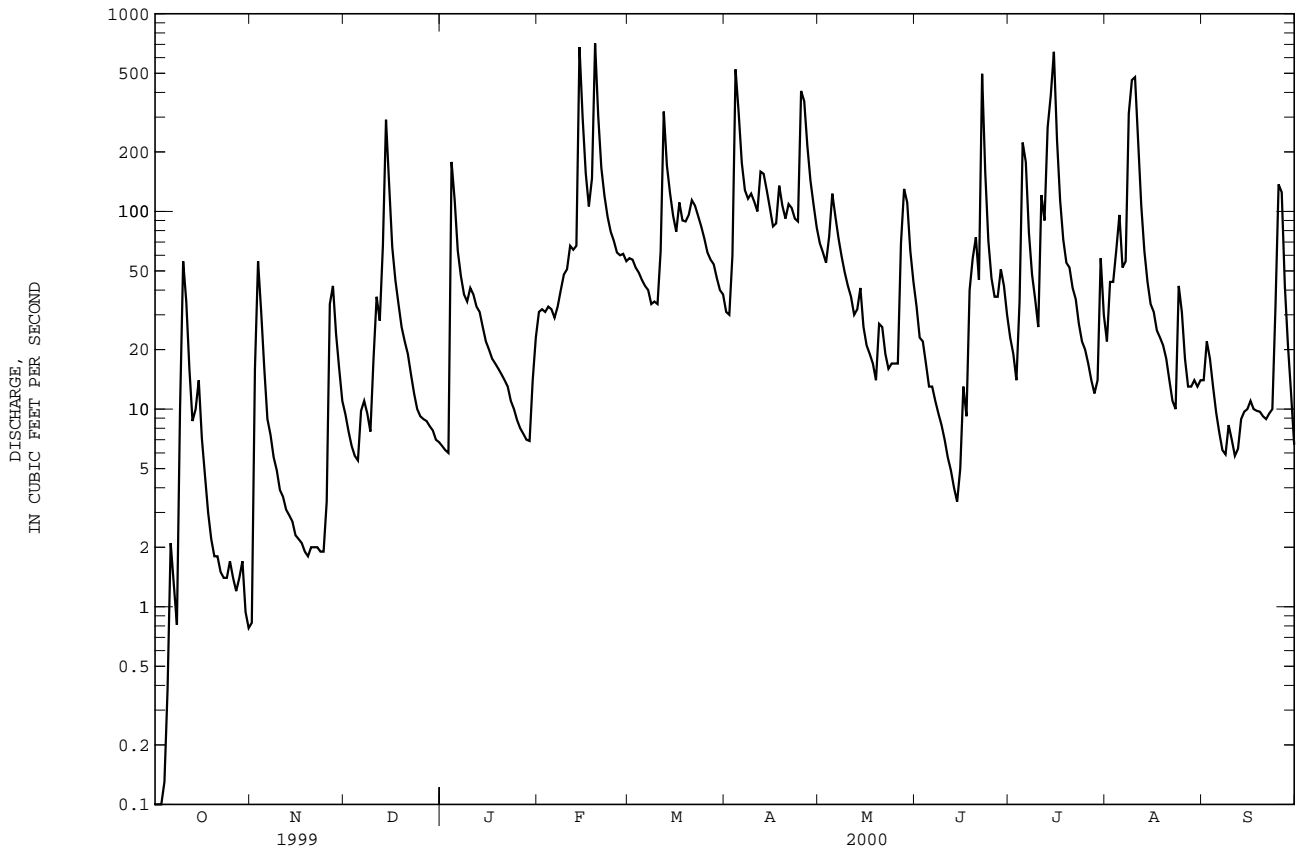
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03282500 RED RIVER NEAR HAZEL GREEN, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1954 - 2000	
ANNUAL TOTAL	17614.02		21912.17		87.1	
ANNUAL MEAN	48.3		59.9		153	
HIGHEST ANNUAL MEAN					39.6	
LOWEST ANNUAL MEAN					1969	
HIGHEST DAILY MEAN	1670	Jan 9	708	Feb 19	6170	Dec 9 1978
LOWEST DAILY MEAN	.00	Jul 19	.00	Oct 1	.00	Sep 14 1954
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 8	.56	Oct 1	.00	Sep 12 1955
INSTANTANEOUS PEAK FLOW			1210	Aug 8	9080	Feb 27 1962
INSTANTANEOUS PEAK STAGE			5.78	Aug 8	22.12	Feb 27 1962
INSTANTANEOUS LOW FLOW					.00	Sep 14 1954
ANNUAL RUNOFF (CFSM)	.73		.91		1.32	
ANNUAL RUNOFF (INCHES)	9.96		12.39		17.99	
10 PERCENT EXCEEDS	117		129		200	
50 PERCENT EXCEEDS	9.5		30		30	
90 PERCENT EXCEEDS	.01		3.3		1.4	

e Estimated



KENTUCKY RIVER BASIN

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 mi².

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 good except for periods of estimated record, 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 20	0300	*4,500	*13.33	No other peak greater than base discharge.			

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	8.0	13	60	e40	117	285	175	371	163	141	292	42
2	7.8	79	49	e39	127	276	164	333	123	106	166	54
3	10	384	42	59	124	248	243	300	95	83	203	60
4	15	271	38	1220	126	224	2240	267	81	79	266	61
5	51	156	37	1230	135	208	2180	448	73	362	347	54
6	66	93	37	496	140	187	1050	470	68	1190	303	42
7	34	62	39	336	130	169	699	354	63	551	191	38
8	22	48	45	252	148	154	957	288	58	322	870	34
9	24	39	46	203	180	149	902	237	48	212	2430	32
10	318	34	71	193	250	147	682	197	43	152	1350	32
11	261	31	166	189	338	189	632	163	39	188	1070	32
12	177	28	181	164	375	439	1090	136	35	343	530	32
13	85	26	587	139	395	606	960	123	32	373	352	33
14	54	25	1090	123	2790	434	757	160	30	521	253	39
15	43	24	997	108	2840	357	610	157	32	871	190	36
16	51	22	455	93	967	401	507	105	35	880	147	31
17	42	21	288	88	602	868	509	87	116	405	126	29
18	35	20	203	e85	1290	628	769	80	205	266	114	27
19	28	19	155	e82	3940	615	603	78	233	191	106	25
20	24	19	125	e78	3080	819	504	78	332	173	95	23
21	21	19	104	e73	1100	972	605	138	327	157	76	30
22	19	21	87	e68	727	732	681	113	792	120	64	32
23	17	22	73	e65	566	582	600	87	874	94	64	33
24	16	e20	65	e62	464	494	529	81	358	76	102	39
25	15	e22	58	e58	409	430	1040	81	219	64	168	204
26	15	e130	e51	e55	352	370	1600	85	163	56	141	528
27	15	198	e48	e52	317	328	1020	87	310	50	91	324
28	14	171	e46	e49	344	311	717	449	276	45	74	162
29	14	115	e44	e47	309	272	548	426	271	48	62	103
30	14	79	e42	63	---	228	441	330	198	285	53	75
31	14	---	e41	98	---	198	---	225	---	472	46	---
TOTAL	1529.8	2211	5370	5907	22682	12320	24014	6534	5692	8876	10342	2286
MEAN	49.3	73.7	173	191	782	397	800	211	190	286	334	76.2
MAX	318	384	1090	1230	3940	972	2240	470	874	1190	2430	528
MIN	7.8	13	37	39	117	147	164	78	30	45	46	23

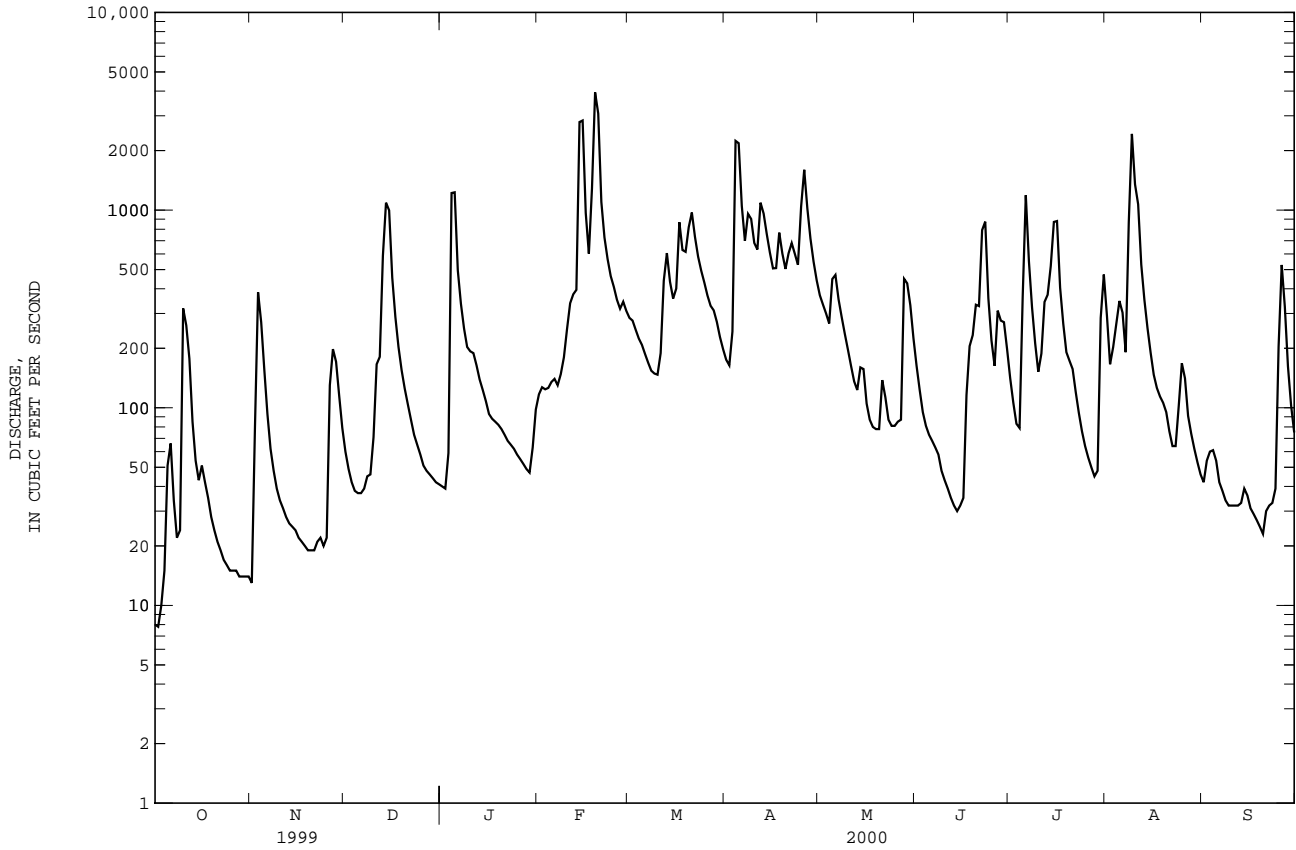
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2000, BY WATER YEAR (WY)

	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN
(WY)	86.1	928	4.41	269	1220	9.75	600	3036	19.7	784	2634	43.2
(WY)	1990	1987	1964	1979	1987	1954	1950	1989	1954	1075	3048	1969
(WY)	1995	1997	1988	1995	1997	1988	1955	1995	1986	826	2406	1986
(WY)	2000	1998	1994	1997	1998	1988	1955	1995	1986	534	1943	1941
(WY)	2000	1998	1994	1997	1998	1988	1955	1995	1986	302	2246	1988
(WY)	2000	1998	1994	1997	1998	1988	1955	1995	1986	262	1845	1944
(WY)	2000	1998	1994	1997	1998	1988	1955	1995	1986	179	1179	1957
(WY)	2000	1998	1994	1997	1998	1988	1955	1995	1986	105	1185	1984

03283500 RED RIVER AT CLAY CITY, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1931 - 2000	
ANNUAL TOTAL	106234.5		107763.8		495	
ANNUAL MEAN	291		294		884	
HIGHEST ANNUAL MEAN					158	
LOWEST ANNUAL MEAN					1941	
HIGHEST DAILY MEAN	8150	Jan 10	3940	Feb 19	26100	Dec 9 1978
LOWEST DAILY MEAN	5.4	Sep 19	7.8	Oct 2	1.2	Aug 10 1944
ANNUAL SEVEN-DAY MINIMUM	5.9	Sep 13	14	Oct 26	2.0	Oct 2 1930
INSTANTANEOUS PEAK FLOW			4500	Feb 20	28800	Dec 9 1978
INSTANTANEOUS PEAK STAGE			13.33	Feb 20	26.75	Dec 9 1978
INSTANTANEOUS LOW FLOW					1.2	Aug 10 1944
10 PERCENT EXCEEDS	782		728		1180	
50 PERCENT EXCEEDS	58		140		181	
90 PERCENT EXCEEDS	12		28		22	

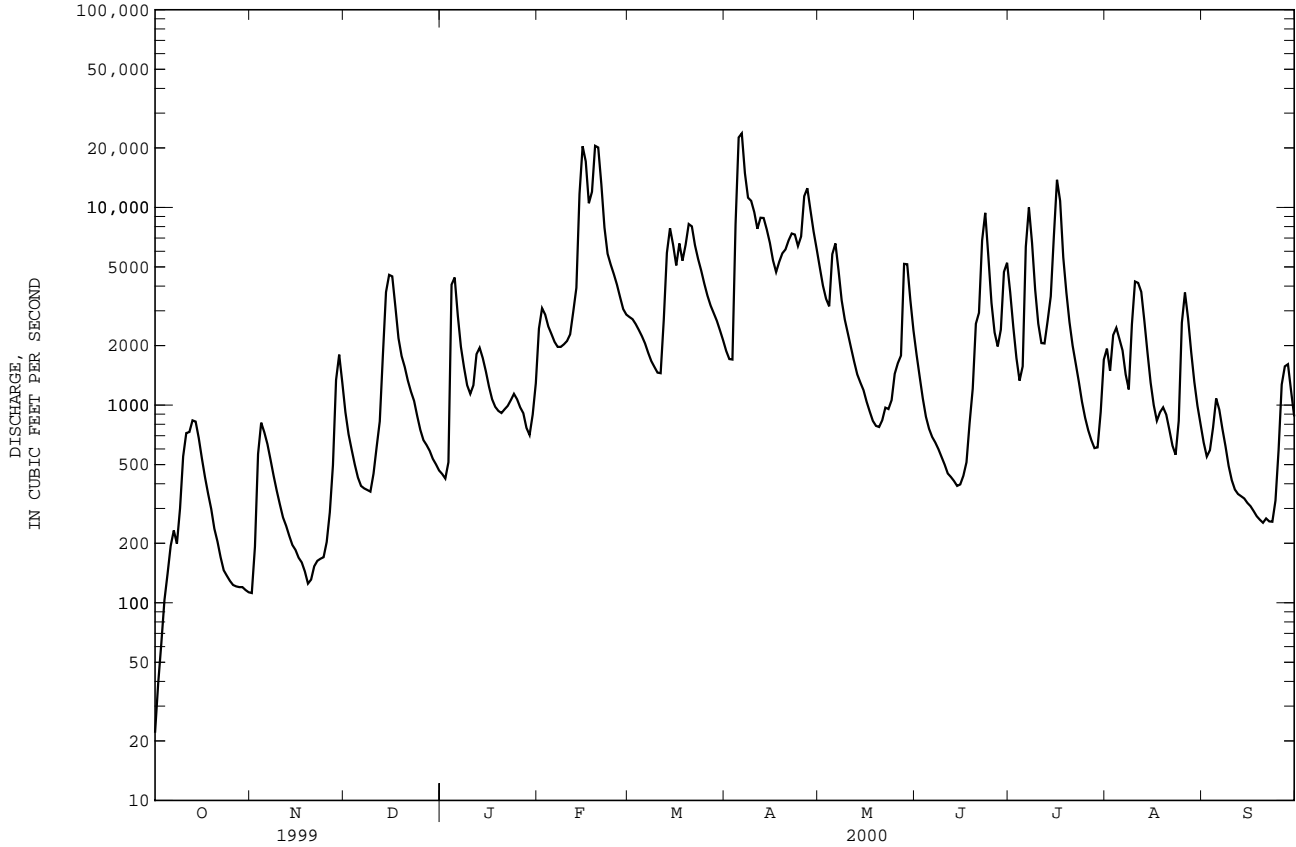
e Estimated



03284000 KENTUCKY RIVER AT LOCK 10 NEAR WINCHESTER, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1961 - 2000	
ANNUAL TOTAL	1164893		996831		5507	
ANNUAL MEAN	3191		2724		9815	
HIGHEST ANNUAL MEAN					2228	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	44200	Jan 10	23700	Apr 6	99100	Dec 10 1978
LOWEST DAILY MEAN	22	Oct 1	22	Oct 1	22	Oct 1 1999
ANNUAL SEVEN-DAY MINIMUM	72	Sep 7	113	Oct 1	72	Sep 7 1999
INSTANTANEOUS PEAK FLOW			25600		Apr 6	101000
INSTANTANEOUS PEAK STAGE			17.76		Apr 6	40.15
10 PERCENT EXCEEDS	10100		6810		14000	
50 PERCENT EXCEEDS	635		1340		2380	
90 PERCENT EXCEEDS	112		251		335	

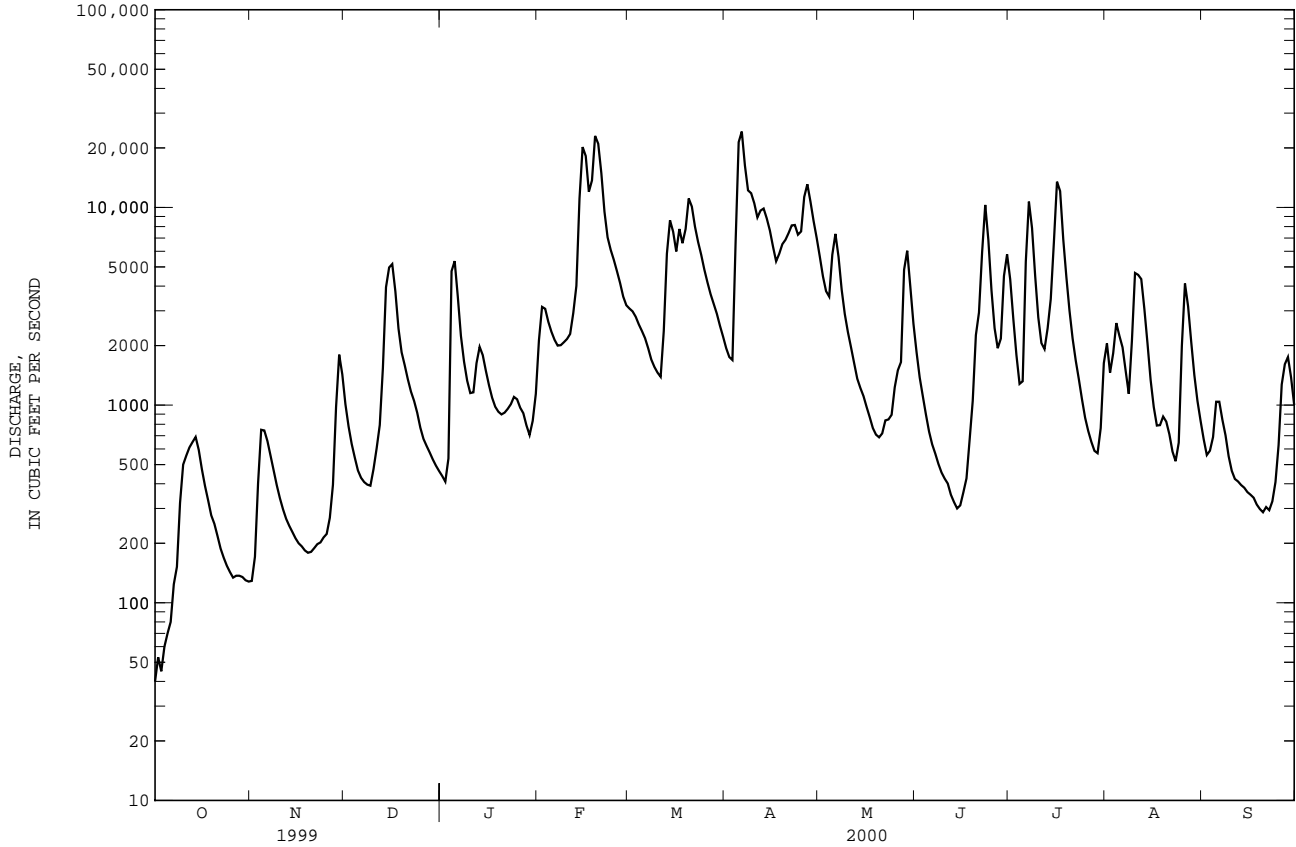
e Estimated



03284230 KENTUCKY RIVER AT LOCK 9 AT VALLEY VIEW, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL			1064608			
ANNUAL MEAN			2909			2909
HIGHEST ANNUAL MEAN						2909
LOWEST ANNUAL MEAN						2909
HIGHEST DAILY MEAN	5170	Dec 16	24200	Apr 6	24200	Apr 6 2000
LOWEST DAILY MEAN	9.7	Sep 19	40	Oct 1	9.7	Sep 19 1999
ANNUAL SEVEN-DAY MINIMUM	9.8	Sep 13	67	Oct 1	9.8	Sep 13 1999
INSTANTANEOUS PEAK FLOW			26800	Feb 19	26800	Feb 19 2000
INSTANTANEOUS PEAK STAGE			19.23	Feb 19	19.23	Feb 19 2000
10 PERCENT EXCEEDS	1190		7680		7500	
50 PERCENT EXCEEDS	236		1360		1140	
90 PERCENT EXCEEDS	9.9		268		137	

e Estimated



KENTUCKY RIVER BASIN

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 near Cadentown, and at mile 12.4.

DRAINAGE AREA.--1.58 mi².

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.

COOPERATION.--Lexington-Fayette Urban County Government.

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	.02	.04	.10	e.08	e.35	.77	.46	.28	.16	.23	.26	.00
2	.00	6.1	.12	e.08	e.35	.61	.82	.36	.15	.21	.11	.02
3	.00	1.6	.09	15	.38	.51	e5.0	.28	.14	.21	.08	.00
4	.00	.14	.07	11	.41	.46	4.1	.35	.13	.57	.08	.00
5	.00	.07	.11	3.1	.39	.36	1.6	.28	.14	9.6	.06	.00
6	.00	.01	.19	1.5	.37	.31	1.0	.24	.13	4.0	.06	.00
7	.00	.00	.17	1.0	.48	.28	.76	.22	.14	1.0	.08	.00
8	.00	.03	.12	.86	.66	.27	9.0	.22	.16	.45	.66	1.1
9	e25	.04	.11	e.80	.64	.47	4.0	.20	.17	.30	.78	.04
10	e20	.03	5.0	e.72	.63	.34	2.4	.19	.17	.65	3.1	.00
11	1.3	.01	.76	e.66	.59	2.0	3.7	.22	.18	7.1	.13	.91
12	.38	.00	1.8	e.60	.37	.86	3.5	.27	.17	1.7	.07	11
13	.39	.01	11	e.56	6.3	.49	2.2	.95	.15	.60	.04	2.5
14	.51	.01	7.8	e.54	6.3	.38	1.7	.38	.16	.27	.04	.35
15	.30	.01	2.0	e.50	1.9	.36	1.4	.33	.61	.21	.04	.12
16	.19	.00	.48	e.48	1.0	7.0	1.0	.29	.37	.15	.04	.07
17	.13	.00	.23	e.46	.71	5.3	2.4	.33	10	.14	.04	.05
18	.11	.00	e.19	e.44	41	3.0	1.3	.36	5.7	.12	.05	.05
19	.09	.00	e.16	e.43	16	16	.91	.38	4.4	.62	.03	.04
20	.06	.02	e.14	e.42	6.4	26	1.6	.31	1.5	.25	.03	.07
21	.06	.02	e.13	e.40	3.8	11	1.3	.23	.88	.14	.02	.17
22	.06	.04	e.12	e.39	2.4	6.2	.79	.21	.39	.12	.01	.10
23	.04	.04	e.11	e.38	1.5	4.4	.58	.70	.34	.11	.01	4.9
24	.02	.07	e.10	e.38	3.0	3.1	.88	.58	.23	.11	.24	14
25	.02	.17	e.10	e.37	1.8	2.0	.88	.29	.29	.12	.01	17
26	.00	1.5	e.09	e.37	1.3	1.5	.50	.21	.22	.12	.00	8.2
27	.00	.68	e.09	e.36	1.7	1.4	.46	6.6	4.0	.13	.42	3.1
28	.00	.37	e.09	e.36	.96	1.2	.41	.99	1.6	.13	.01	1.2
29	.00	.22	e.08	e.36	.75	.78	.39	.48	.46	.14	.00	.53
30	.00	.12	e.08	e.36	---	.64	.31	.28	.28	.56	.00	.35
31	.00	---	e.08	e.35	---	.53	---	.20	---	2.6	.00	---
TOTAL	48.68	11.35	31.71	43.31	102.44	98.52	55.35	17.21	33.42	32.66	6.50	65.87
MEAN	1.57	.38	1.02	1.40	3.53	3.18	1.84	.56	1.11	1.05	.21	2.20
MAX	25	6.1	11	15	41	26	9.0	6.6	10	9.6	3.1	17
MIN	.00	.00	.07	.08	.35	.27	.31	.19	.13	.11	.00	.00

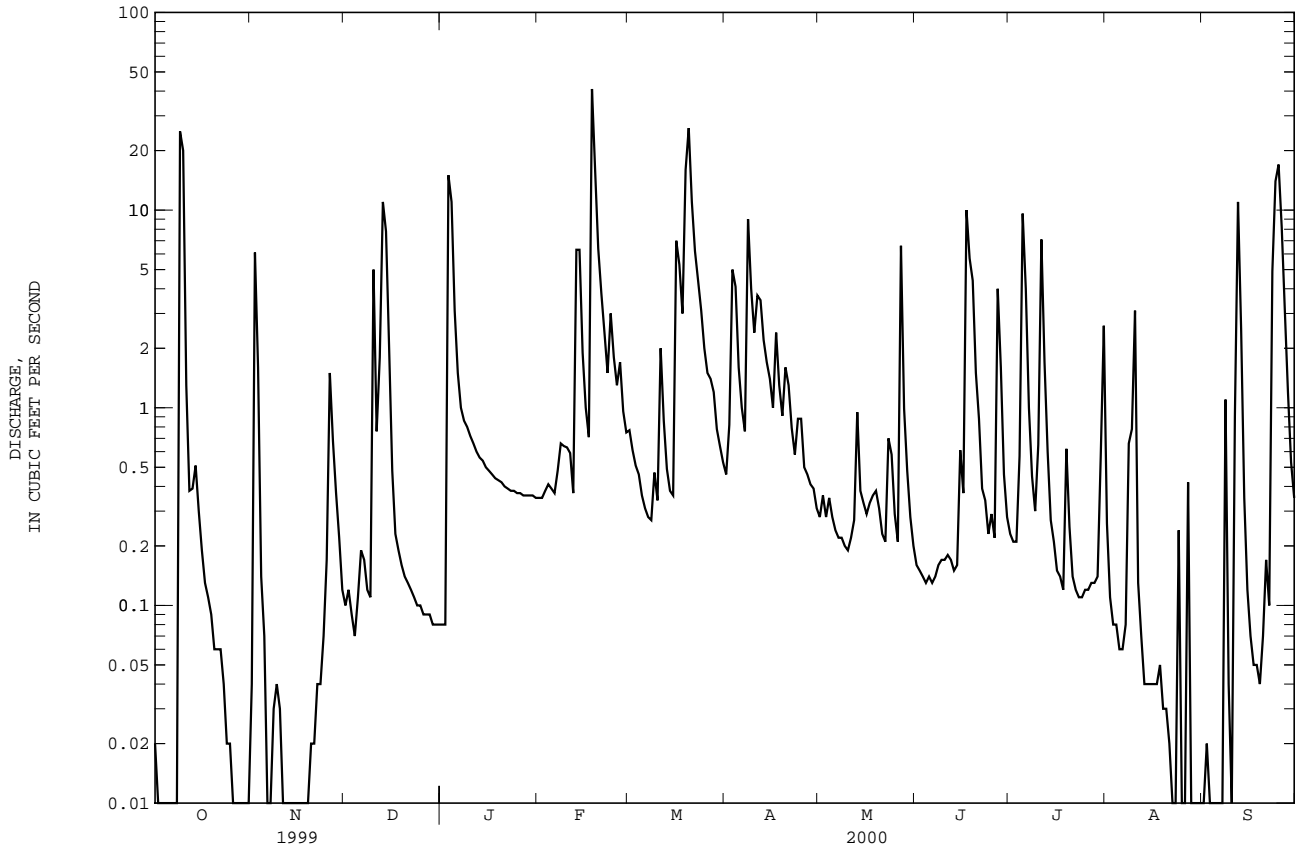
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

	1998	1999	2000	2000	2000	1998	1999	1999	1999	1999	1999	1999
MEAN	.84	.56	1.26	3.95	4.02	3.46	2.88	1.58	2.75	2.13	.12	.76
MAX	1.57	.93	1.52	5.69	4.96	4.39	5.34	3.87	6.73	4.78	.21	2.20
(WY)	2000	1998	1998	1998	1998	1999	1998	1998	1998	1998	2000	2000
MIN	.21	.37	1.02	1.40	3.53	2.82	1.46	.31	.41	.57	.046	.013
(WY)	1998	1999	2000	2000	2000	1998	1999	1999	1999	1999	1999	1999

03284520 EAST HICKMAN CREEK AT ANDOVER VILLAGE NEAR CADENTOWN, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	560.59		547.02			
ANNUAL MEAN	1.54		1.49		2.01	
HIGHEST ANNUAL MEAN					3.07 1998	
LOWEST ANNUAL MEAN					1.48 1999	
HIGHEST DAILY MEAN	27	Jan 9	41	Feb 18	59	Jul 20 1998
LOWEST DAILY MEAN	.00	Aug 11	.00	Oct 2	.00	Sep 20 1998
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 31	.00	Oct 2	.00	Aug 31 1999
INSTANTANEOUS PEAK FLOW			136	Feb 18	205	Jul 20 1998
INSTANTANEOUS PEAK STAGE			4.00	Feb 18	4.63	Jul 20 1998
INSTANTANEOUS LOW FLOW			.00	Oct 1	.00	Oct 1 1999
10 PERCENT EXCEEDS	4.3		4.0		5.0	
50 PERCENT EXCEEDS	.21		.34		.44	
90 PERCENT EXCEEDS	.00		.01		.03	

e Estimated



KENTUCKY RIVER BASIN

03284525 EAST HICKMAN CREEK TRIBUTARY AT CHILESBURG ROAD NEAR LEXINGTON, KY

LOCATION.--Lat 37°59'18", long 84°24'40", Fayette County, Hydrologic Unit 05100205, on left bank, downstream side of bridge on Walnut Hill-Chilesburg Road, 0.9 mi northeast of Athens Road (#418), and 0.9 mi southwest of Todds Road (1927) and 3.1 mi east of Lexington.

DRAINAGE AREA.--0.96 mi².

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 poor.

COOPERATION.--Lexington-Fayette Urban County Government.

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	.02	.03	e.03	.43	.31	.17	e.04	e.07	e.01	.00
2	.00	.00	.02	e.02	e.03	.34	.35	.18	e.04	e.06	.00	.00
3	.00	.00	.02	.50	e.03	.31	e1.8	.17	e.03	e.05	.00	.01
4	.00	.00	.02	1.7	e.03	.28	1.7	e.16	e.03	e.05	.00	.00
5	.00	.00	.02	.13	e.03	.26	1.0	e.14	e.03	.14	.00	.00
6	.00	.00	.02	.10	e.03	.24	.68	e.13	e.03	.14	.00	.00
7	.00	.00	.02	.08	e.02	.22	.46	e.12	e.02	.09	.00	e.01
8	.00	.00	.02	.07	e.02	.21	3.1	e.10	e.02	.06	.01	.02
9	.00	.00	.02	e.06	.13	.23	1.9	e.10	e.02	.05	.01	.02
10	.00	.00	.08	e.06	.17	.22	1.2	e.09	e.02	e.04	.03	.02
11	.00	.00	.05	e.05	.12	.27	1.2	e.08	e.02	.22	.01	.04
12	.00	.00	.05	e.05	.09	.25	1.3	e.07	e.02	.13	.00	2.7
13	.00	.00	.14	e.05	1.1	.21	1.0	e.12	e.02	e.10	.00	.55
14	.00	.00	.11	e.04	2.9	.20	.75	e.09	e.03	e.07	.00	.29
15	.00	.00	.07	e.04	.38	.20	.51	e.08	.12	e.04	.00	.17
16	.00	.00	.05	e.04	.19	1.4	.38	e.07	.13	e.02	.00	e.11
17	.00	.00	.04	e.04	.14	1.7	.46	e.09	.45	e.01	.00	e.08
18	.00	.00	.04	e.03	32	.95	.36	e.08	.27	.00	.00	e.05
19	.00	.00	.03	e.04	19	9.0	.29	e.06	e.17	.01	.00	e.02
20	.00	.00	.03	e.04	8.4	24	.31	e.05	e.11	.01	.00	.16
21	.00	.00	.03	e.04	4.1	13	.33	e.05	e.08	.00	.00	.23
22	.00	.00	.03	e.03	2.5	6.5	.27	e.04	e.06	.00	.00	.25
23	.00	.00	e.02	e.03	1.6	3.6	.25	.12	e.05	.00	.00	1.9
24	.00	.01	e.02	e.03	1.7	2.4	.25	e.09	e.04	.00	.01	7.6
25	.00	.01	e.02	e.03	1.3	1.7	.25	e.06	e.03	.00	.01	10
26	.00	.03	.03	e.03	1.0	1.2	.22	e.05	e.08	.00	.00	4.5
27	.00	.03	.04	e.03	.96	.98	.21	.25	e.14	.00	.01	2.0
28	.00	.02	.04	e.02	.65	.77	.19	.13	e.12	.00	.01	e.88
29	.00	.02	.03	e.02	.47	.49	.18	e.09	e.10	.00	.00	e.54
30	.00	.02	.04	e.03	---	.42	.17	e.07	e.08	.01	.00	e.25
31	.00	---	.03	e.04	---	.35	---	e.05	---	e.03	.00	---
TOTAL	0.00	0.14	1.20	3.50	79.12	72.33	21.38	3.15	2.40	1.40	0.11	32.40
MEAN	.000	.005	.039	.11	2.73	2.33	.71	.10	.080	.045	.004	1.08
MAX	.00	.03	.14	1.7	32	24	3.1	.25	.45	.22	.03	10
MIN	.00	.00	.02	.02	.02	.20	.17	.04	.02	.00	.00	.00

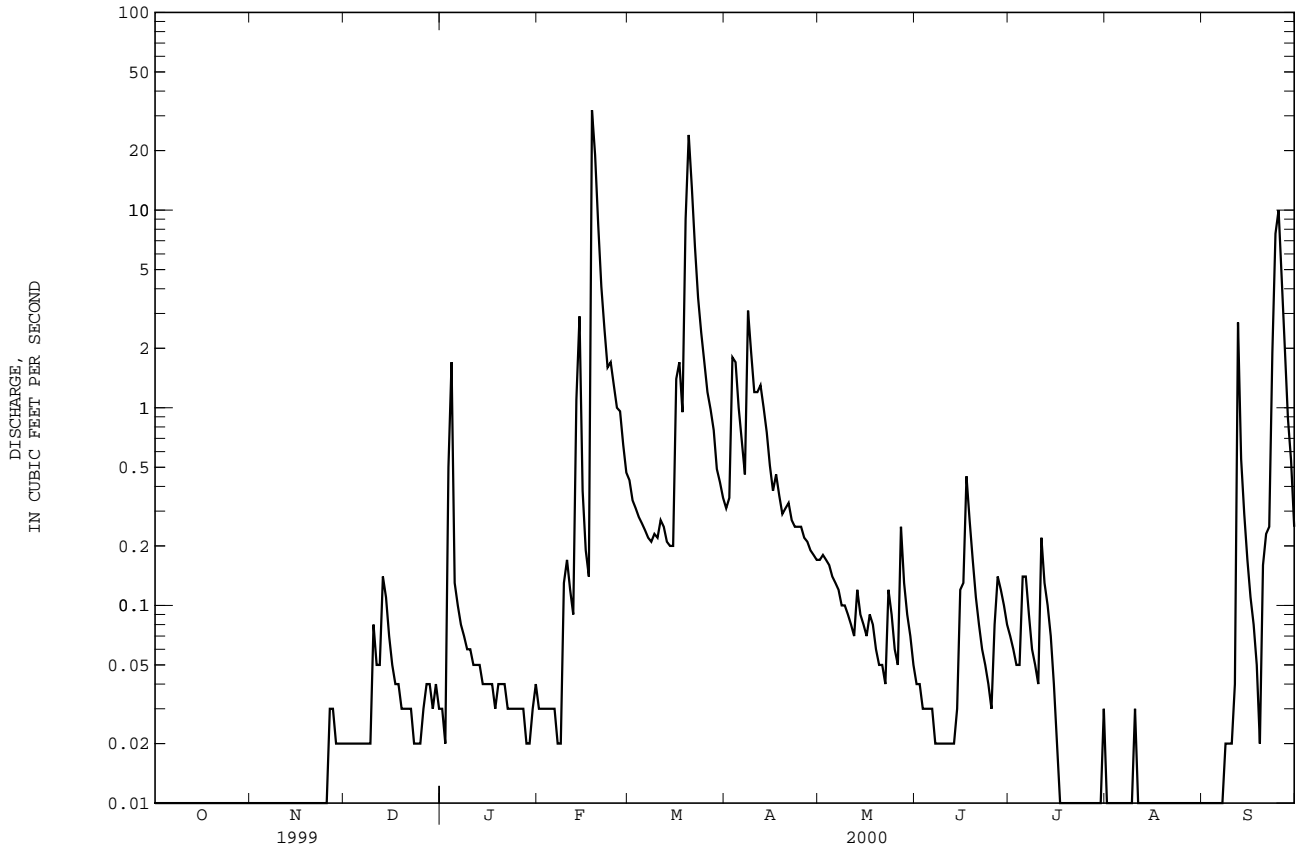
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	2000
MEAN	.039	.065	.10	2.03	2.53	1.79	1.39	.90	.79	.57	.031	.37
MAX	.12	.17	.23	3.21	3.31	2.33	3.28	2.54	2.25	1.61	.090	1.08
(WY)	1998	1998	1998	1998	1998	2000	1998	1998	1998	1998	1998	2000
MIN	.000	.005	.039	.11	1.54	1.18	.18	.068	.025	.044	.000	.000
(WY)	2000	2000	2000	2000	1999	1998	1999	1999	1999	1999	1999	1999

03284525 EAST HICKMAN CREEK TRIBUTARY AT CHILESBURG ROAD NEAR LEXINGTON, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	198.08		217.13			
ANNUAL MEAN	.54		.59		.87	
HIGHEST ANNUAL MEAN					1.49	1998
LOWEST ANNUAL MEAN					.54	1999
HIGHEST DAILY MEAN	18	Jan 9	32	Feb 18	32	Feb 18 2000
LOWEST DAILY MEAN	.00	Jul 17	.00	Oct 1	.00	Sep 17 1998
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 27	.00	Oct 1	.00	Sep 27 1998
INSTANTANEOUS PEAK FLOW			172	Feb 18	172	Feb 18 2000
INSTANTANEOUS PEAK STAGE			3.43	Feb 18	3.72	Jul 20 1998
INSTANTANEOUS LOW FLOW			.00	Oct 1	.00	Oct 1 1998
10 PERCENT EXCEEDS	1.8		1.0		2.3	
50 PERCENT EXCEEDS	.03		.04		.10	
90 PERCENT EXCEEDS	.00		.00		.00	

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 mi².

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 below 1.0 ft³/s, which are poor.

COOPERATION.--Lexington-Fayette Urban County Government.

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	.70	.71	.43	e.48	1.8	6.9	4.2	2.0	.59	7.3	35	.17
2	.40	15	.45	e.47	1.5	5.2	6.4	3.4	.49	4.0	29	.48
3	1.7	5.7	.53	36	1.4	4.3	25	1.9	.45	1.0	26	.95
4	.36	2.3	.59	43	1.5	3.9	49	3.1	.38	.34	26	.49
5	.60	2.2	.72	8.3	1.5	3.2	23	1.9	.34	28	21	.31
6	.23	1.5	.94	3.5	1.4	2.8	14	1.7	.32	41	15	.40
7	.06	1.2	.77	2.3	1.7	2.6	12	1.5	.29	18	17	.45
8	.02	1.1	.72	1.8	2.6	2.4	73	1.4	.28	2.8	20	10
9	26	.99	.74	1.8	2.9	3.1	40	1.3	.27	.91	26	1.2
10	16	.92	5.8	1.4	2.9	2.3	26	1.2	.27	.48	67	.65
11	3.1	.97	1.6	1.2	2.7	6.0	23	1.2	.25	80	24	7.4
12	1.1	.88	1.4	1.1	2.1	4.3	32	1.2	.23	37	10	43
13	.90	.88	16	1.2	19	7.2	23	2.9	.12	15	3.3	38
14	2.0	1.1	8.6	.96	42	5.2	18	1.2	.13	4.3	1.3	17
15	.77	.81	2.3	.86	15	3.7	15	.96	.95	1.5	.42	6.6
16	1.0	.59	1.4	.86	9.4	47	13	.90	.70	.75	.20	1.8
17	.84	.51	1.0	.80	8.3	61	16	1.3	7.5	.23	.17	.82
18	.62	.45	.85	.96	328	29	17	.97	8.0	.15	.68	.06
19	.71	.43	.79	1.1	326	137	12	.77	9.5	1.4	.57	.03
20	.57	.52	e.70	1.5	81	329	12	.85	3.1	1.1	.55	.24
21	.74	.47	e.63	1.3	41	159	17	.70	1.6	.45	.51	1.4
22	.82	.40	e.59	1.1	27	69	12	.66	1.0	.45	.23	1.24
23	.63	.36	e.56	e1.0	17	35	7.9	4.0	.78	.59	.19	26
24	.64	.41	e.54	e.95	21	23	12	1.6	.56	1.0	1.7	117
25	.59	.78	e.52	e.90	20	21	11	.93	.50	.56	.75	147
26	.63	1.5	e.66	e.86	14	16	5.7	.74	.56	.20	.47	95
27	.82	1.2	e.62	e.83	13	15	3.1	12	11	.14	4.6	32
28	1.1	.68	e.58	e.81	10	13	2.9	2.2	5.3	.09	.89	16
29	.78	.51	e.54	e.79	7.5	9.4	2.5	1.3	11	.09	.55	8.1
30	1.4	.45	e.52	2.2	---	11	2.2	.97	12	1.8	.35	1.9
31	.78	---	e.50	1.9	---	10	---	.79	---	10	.30	---
TOTAL	66.61	45.52	52.59	122.23	1023.2	1047.5	529.9	57.54	78.46	260.63	333.73	574.69
MEAN	2.15	1.52	1.70	3.94	35.3	33.8	17.7	1.86	2.62	8.41	10.8	19.2
MAX	26	15	16	43	328	329	73	12	12	80	67	147
MIN	.02	.36	.43	.47	1.4	2.3	2.2	.66	.12	.09	.17	.03

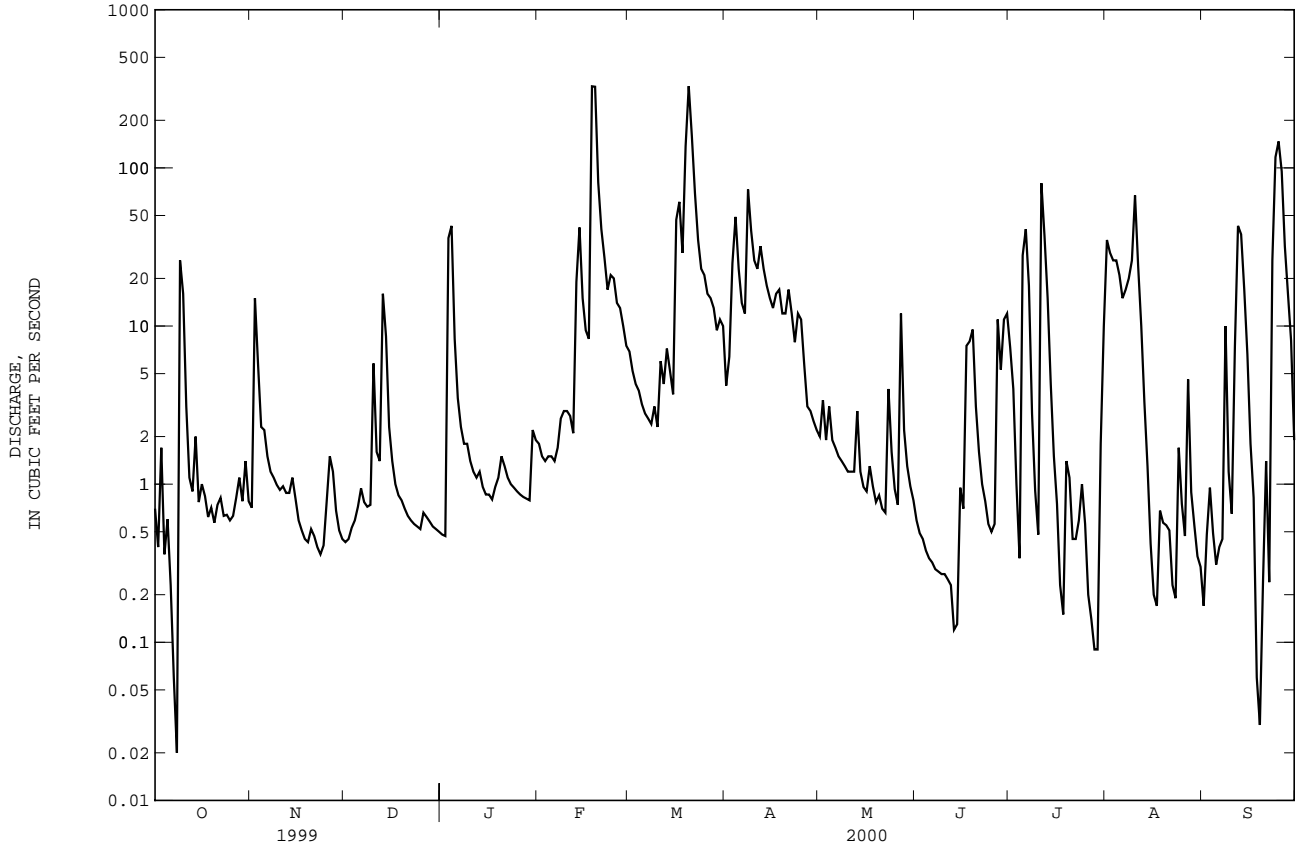
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

	1998	1999	2000	1998	1999	2000	1998	1999	2000	1998	1999	2000
MEAN	1.87	2.11	4.13	21.5	31.4	27.1	15.4	7.82	12.3	13.5	3.99	6.72
MAX	2.47	3.57	8.04	36.4	35.3	34.4	21.4	19.5	33.0	28.7	10.8	19.2
(WY)	1999	1998	1998	1999	2000	1999	1998	1998	1998	1998	2000	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

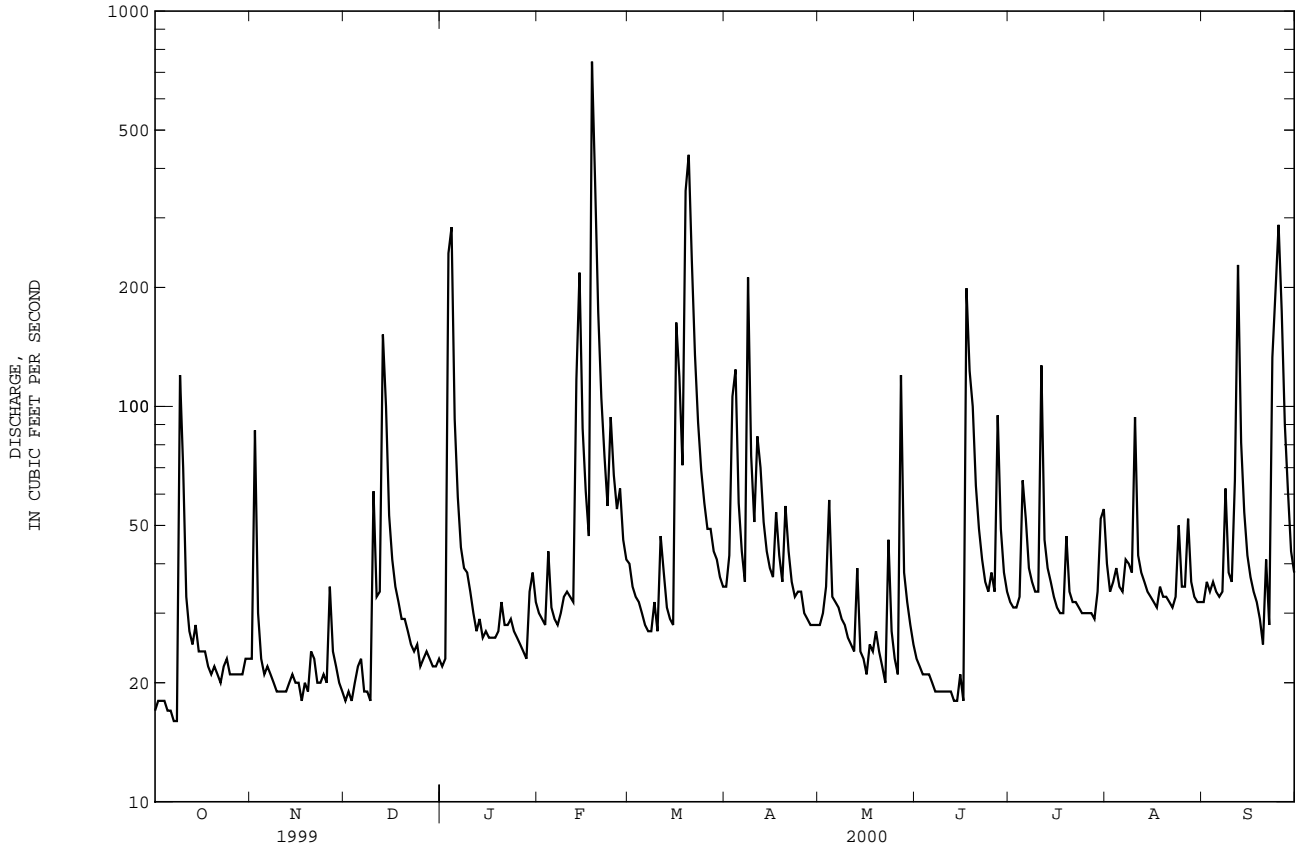
SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	3567.57		4192.60		12.2	
ANNUAL MEAN	9.77		11.5		15.3	
HIGHEST ANNUAL MEAN					9.86	
LOWEST ANNUAL MEAN					512	
HIGHEST DAILY MEAN	190	Jan 9	329	Mar 20	Jul 20 1998	
LOWEST DAILY MEAN	.00	Aug 1	.02	Oct 8	Aug 1 1999	
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 17	.22	Jun 8	Aug 17 1999	
INSTANTANEOUS PEAK FLOW			1470	Feb 18	1470	Feb 18 2000
INSTANTANEOUS PEAK STAGE			6.17	Feb 18	6.17	Feb 18 2000
10 PERCENT EXCEEDS	26		26		28	
50 PERCENT EXCEEDS	1.1		1.4		2.7	
90 PERCENT EXCEEDS	.01		.40		.28	

e Estimated



03284555 WEST HICKMAN CREEK AT ASH GROVE PIKE NEAR EAST HICKMAN, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	15971		17638		56.1	
ANNUAL MEAN	43.8		48.2		75.2	
HIGHEST ANNUAL MEAN					45.0	
LOWEST ANNUAL MEAN					1999	
HIGHEST DAILY MEAN	475	Jan 9	745	Feb 18	893	Jul 20 1998
LOWEST DAILY MEAN	16	Sep 17	16	Oct 7	12	Nov 5 1998
ANNUAL SEVEN-DAY MINIMUM	17	Aug 16	17	Oct 2	17	Aug 16 1999
INSTANTANEOUS PEAK FLOW			2460	Feb 18	3040	Jul 20 1998
INSTANTANEOUS PEAK STAGE			6.47	Feb 18	7.43	Jul 20 1998
INSTANTANEOUS LOW FLOW					1.4	Nov 5 1998
10 PERCENT EXCEEDS	90		89		104	
50 PERCENT EXCEEDS	25		32		35	
90 PERCENT EXCEEDS	18		20		20	



KENTUCKY RIVER BASIN

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 mi².

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 Environmental Protection Cabinet.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 1	0900	8,160	8.34	Mar 20	0300	9,290	8.89
Feb 19	0600	*11,000	*9.67				

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	4.4	.77	13	e18	238	248	140	159	142	152	272	5.1
2	5.8	2.5	12	e17	183	231	126	139	105	106	115	4.0
3	5.6	7.1	12	37	182	197	145	128	82	80	71	3.7
4	21	7.4	11	3820	188	176	2150	127	63	65	51	2.9
5	26	20	10	870	186	159	1220	212	50	57	32	2.4
6	17	14	11	393	174	140	579	190	42	52	22	2.3
7	14	9.4	9.8	248	174	125	401	126	37	46	16	2.6
8	8.4	6.1	9.4	178	199	114	855	99	43	42	12	2.8
9	e15	5.7	9.2	144	192	110	1020	82	37	35	9.9	2.7
10	e250	7.8	22	132	185	103	564	68	31	27	10	2.2
11	114	5.6	132	118	189	107	420	56	26	19	9.4	1.9
12	66	4.2	82	99	251	245	1040	47	22	16	8.2	1.9
13	41	3.9	431	87	299	267	759	43	18	13	8.4	1.8
14	25	3.8	1020	80	4910	181	535	39	15	11	8.4	1.6
15	15	3.7	487	70	1520	149	418	36	13	10	9.5	1.4
16	9.9	3.3	220	62	725	145	344	35	18	12	7.8	1.3
17	7.0	2.8	135	56	470	851	291	29	22	15	5.9	1.2
18	4.8	2.4	96	56	2130	625	372	24	46	12	4.8	1.1
19	3.9	1.9	75	60	7640	2810	352	22	414	9.9	3.8	1.1
20	3.4	2.1	61	64	1800	6660	281	27	594	8.8	3.1	1.0
21	3.0	2.4	50	71	825	2630	529	33	245	7.5	2.7	.82
22	2.7	2.8	41	e66	596	1070	507	44	728	6.4	2.2	.67
23	1.9	2.9	35	e60	484	721	336	40	320	5.3	2.1	.60
24	1.7	2.9	e30	e55	391	534	267	667	159	4.8	4.2	.60
25	1.3	3.0	e27	e52	366	414	608	391	101	4.4	7.2	1.0
26	.94	5.5	e25	e49	312	326	632	196	75	e4.2	5.8	2.2
27	.74	7.8	e23	e47	286	281	400	437	141	e4.0	6.0	4.5
28	.66	21	e22	e45	322	261	301	1560	890	3.8	11	8.8
29	.60	21	e21	e43	280	214	240	458	458	3.8	11	6.8
30	.54	16	e20	99	---	178	191	284	243	4.6	8.5	4.4
31	.67	---	e19	241	---	162	---	197	---	125	6.9	---
TOTAL	671.95	199.77	3171.4	7437	25697	20434	16023	5995	5180	962.5	747.8	75.39
MEAN	21.7	6.66	102	240	886	659	534	193	173	31.0	24.1	2.51
MAX	250	21	1020	3820	7640	6660	2150	1560	890	152	272	8.8
MIN	.54	.77	9.2	17	174	103	126	22	13	3.8	2.1	.60
CFSM	.07	.02	.32	.75	2.79	2.07	1.68	.61	.54	.10	.08	.01
IN.	.08	.02	.37	.87	3.01	2.39	1.87	.70	.61	.11	.09	.01

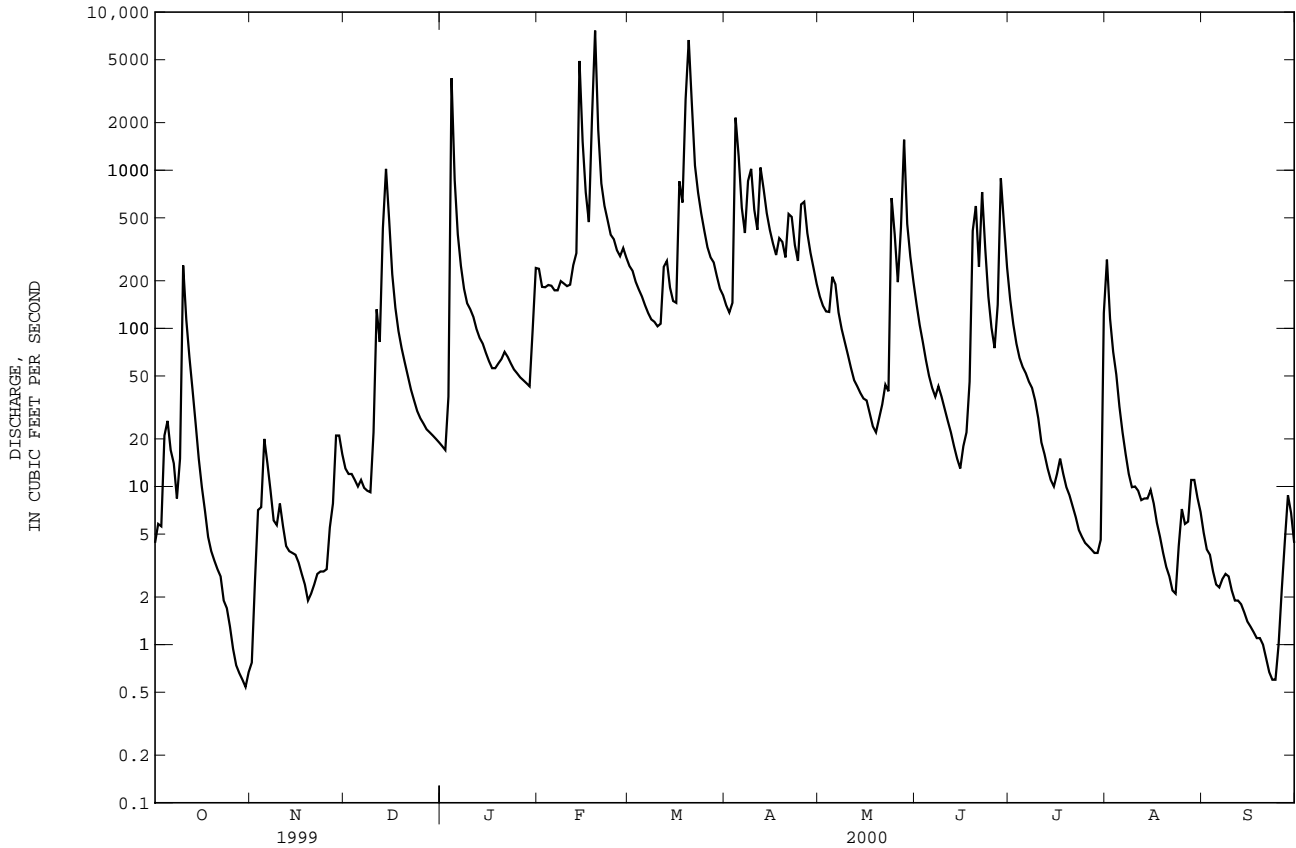
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2000, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)
MEAN	97.8	300	657	805
MAX	1323	1471	3656	3140
(WY)	1980	1987	1979	1950
MIN	.000	.030	.69	17.0
(WY)	1953	1954	1954	1981
				1954
				1983
				1986
				1976
				1988
				1944
				1952
				1953

03285000 DIX RIVER NEAR DANVILLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1943 - 2000	
ANNUAL TOTAL	111631.05		86594.81		471	
ANNUAL MEAN	306		237		1184	
HIGHEST ANNUAL MEAN					119	
LOWEST ANNUAL MEAN					1954	
HIGHEST DAILY MEAN	14900	Jan 9	7640	Feb 19	35100	Jul 20 1996
LOWEST DAILY MEAN	.10	Sep 19	.54	Oct 30	.00	Jul 21 1944
ANNUAL SEVEN-DAY MINIMUM	.15	Sep 13	.70	Oct 26	.00	Jul 29 1944
INSTANTANEOUS PEAK FLOW			11000	Feb 19	52400	Jul 20 1996
INSTANTANEOUS PEAK STAGE			9.67	Feb 19	21.81	Dec 9 1978
ANNUAL RUNOFF (CFSM)	.96		.74		1.48	
ANNUAL RUNOFF (INCHES)	13.06		10.13		20.11	
10 PERCENT EXCEEDS	686		514		1060	
50 PERCENT EXCEEDS	25		43		123	
90 PERCENT EXCEEDS	1.3		2.6		2.9	

e Estimated



KENTUCKY RIVER BASIN

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, near Danville, and at mile 4.05.

DRAINAGE AREA.--3.07 mi²

WATER-STAGE RECORDS

PERIOD OF DAILY RECORD.--May 28, 1998 to September 22, 1999, May 27, 2000 to September 4, 2000.

COOPERATION.--The Kentucky Heritage Resource Conservation and Development Council.

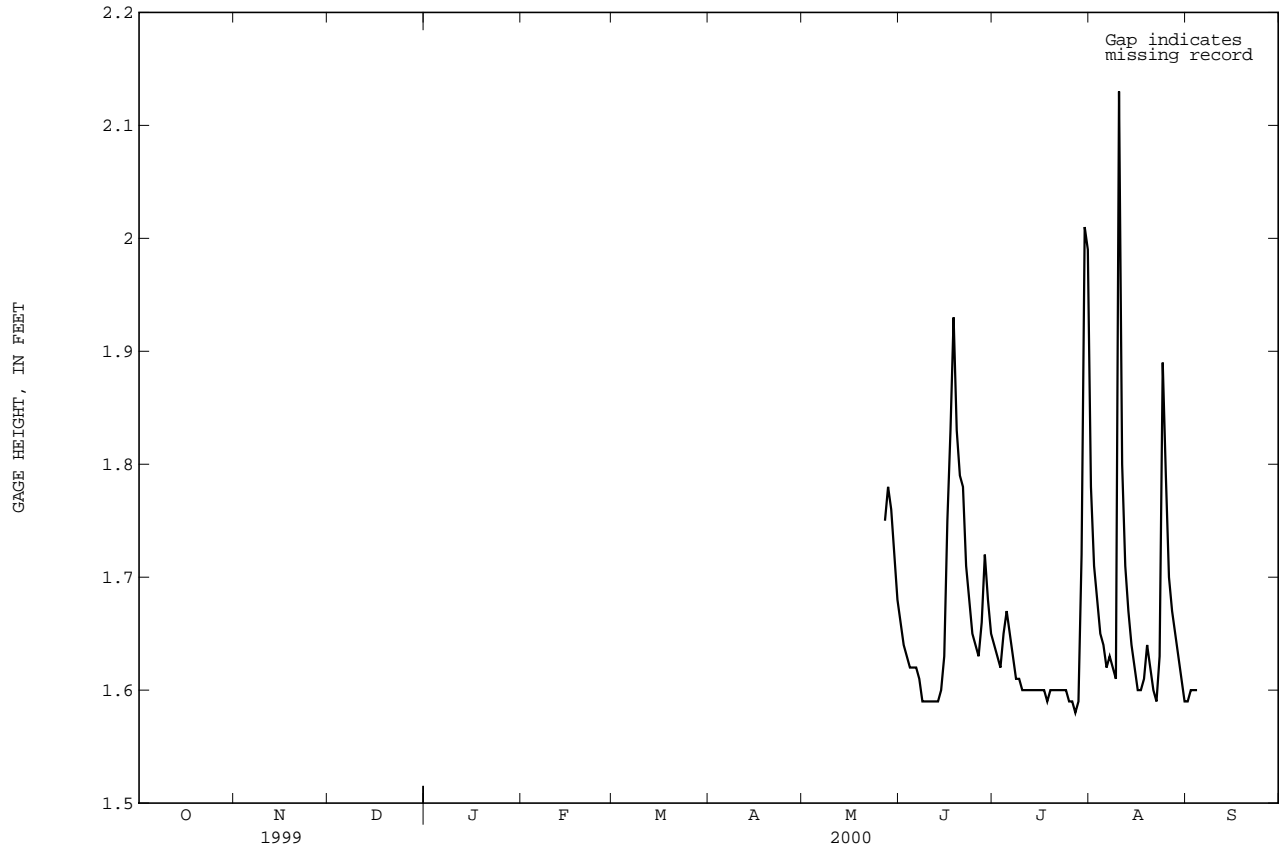
GAGE.--Water-stage recorder.

REMARKS.--Records good.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	1.66	1.64	1.78	1.59
2	---	---	---	---	---	---	---	---	1.64	1.63	1.71	1.60
3	---	---	---	---	---	---	---	---	1.63	1.62	1.68	1.60
4	---	---	---	---	---	---	---	---	1.62	1.65	1.65	1.60
5	---	---	---	---	---	---	---	---	1.62	1.67	1.64	---
6	---	---	---	---	---	---	---	---	1.62	1.65	1.62	---
7	---	---	---	---	---	---	---	---	1.61	1.63	1.63	---
8	---	---	---	---	---	---	---	---	1.59	1.61	1.62	---
9	---	---	---	---	---	---	---	---	1.59	1.61	1.61	---
10	---	---	---	---	---	---	---	---	1.59	1.60	2.13	---
11	---	---	---	---	---	---	---	---	1.59	1.60	1.80	---
12	---	---	---	---	---	---	---	---	1.59	1.60	1.71	---
13	---	---	---	---	---	---	---	---	1.59	1.60	1.67	---
14	---	---	---	---	---	---	---	---	1.60	1.60	1.64	---
15	---	---	---	---	---	---	---	---	1.63	1.60	1.62	---
16	---	---	---	---	---	---	---	---	1.75	1.60	1.60	---
17	---	---	---	---	---	---	---	---	1.83	1.60	1.60	---
18	---	---	---	---	---	---	---	---	1.93	1.59	1.61	---
19	---	---	---	---	---	---	---	---	1.83	1.60	1.64	---
20	---	---	---	---	---	---	---	---	1.79	1.60	1.62	---
21	---	---	---	---	---	---	---	---	1.78	1.60	1.60	---
22	---	---	---	---	---	---	---	---	1.71	1.60	1.59	---
23	---	---	---	---	---	---	---	---	1.68	1.60	1.63	---
24	---	---	---	---	---	---	---	---	1.65	1.60	1.89	---
25	---	---	---	---	---	---	---	---	1.64	1.59	1.79	---
26	---	---	---	---	---	---	---	---	1.63	1.59	1.70	---
27	---	---	---	---	---	---	---	1.75	1.66	1.58	1.67	---
28	---	---	---	---	---	---	---	1.78	1.72	1.59	1.65	---
29	---	---	---	---	---	---	---	1.76	1.68	1.72	1.63	---
30	---	---	---	---	---	---	---	1.72	1.65	2.01	1.61	---
31	---	---	---	---	---	---	---	1.68	---	1.99	1.59	---
MEAN	---	---	---	---	---	---	---	1.74	1.67	1.64	1.68	1.60
MAX	---	---	---	---	---	---	---	1.78	1.93	2.01	2.13	1.60
MIN	---	---	---	---	---	---	---	1.68	1.59	1.58	1.59	1.59

03285290 SPEARS CREEK AT STREAMLAND DRIVE NEAR DANVILLE, KY --Continued



KENTUCKY RIVER BASIN

03285290 SPEARS CREEK AT STREAMLAND DRIVE NEAR DANVILLE, KY --Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	---	---	---	---	---	---	---	---	---	7.9	7.4	7.5
28	---	---	---	---	---	---	---	---	---	7.8	7.4	7.5
29	---	---	---	---	---	---	---	---	---	8.1	7.5	7.7
30	---	---	---	---	---	---	---	---	---	8.0	7.4	7.6
31	---	---	---	---	---	---	---	---	---	7.9	7.4	7.6
MONTH	---	---	---	---	---	---	---	---	---	8.1	7.4	7.6

03285290 SPEARS CREEK AT STREAMLAND DRIVE NEAR DANVILLE, KY --Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	---	---	---	---	---	---	---	---	---	8.3	4.7	5.8
28	---	---	---	---	---	---	---	---	---	8.2	4.7	6.1
29	---	---	---	---	---	---	---	---	---	9.7	5.7	7.2
30	---	---	---	---	---	---	---	---	---	10.4	5.2	7.2
31	---	---	---	---	---	---	---	---	---	9.7	4.5	6.6
MONTH	---	---	---	---	---	---	---	---	---	10.4	4.5	6.6



KENTUCKY RIVER BASIN

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 and at mile 5.85.

DRAINAGE AREA.--8.16 mi².

WATER-STAGE RECORDS

PERIOD OF RECORD.--June 9, 1998 to November 20, 1998, June 8, 2000 to September 4, 2000.

GAGE.--Water-stage recorder.

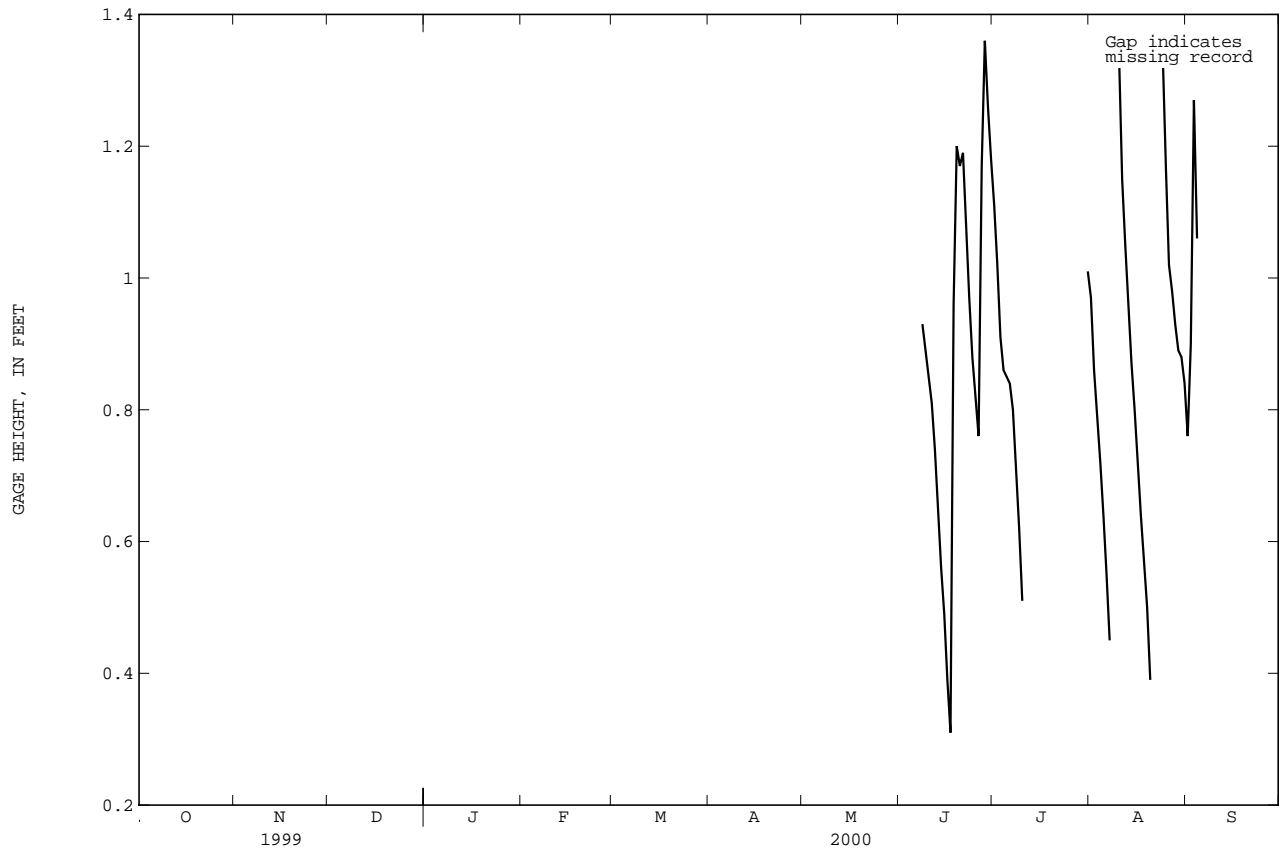
REMARKS.--Records good.

COOPERATION.--The Kentucky Heritage Resource Conservation and Development Council.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	1.11	.97	.76
2	---	---	---	---	---	---	---	---	---	1.02	.86	.90
3	---	---	---	---	---	---	---	---	---	.91	.79	1.27
4	---	---	---	---	---	---	---	---	---	.86	.72	1.06
5	---	---	---	---	---	---	---	---	---	.85	.64	---
6	---	---	---	---	---	---	---	---	---	.84	.55	---
7	---	---	---	---	---	---	---	---	---	.80	.45	---
8	---	---	---	---	---	---	---	---	.93	.71	---	---
9	---	---	---	---	---	---	---	---	.89	.62	---	---
10	---	---	---	---	---	---	---	---	.85	.51	1.34	---
11	---	---	---	---	---	---	---	---	.81	---	1.15	---
12	---	---	---	---	---	---	---	---	.74	---	1.05	---
13	---	---	---	---	---	---	---	---	.65	---	.96	---
14	---	---	---	---	---	---	---	---	.56	---	.87	---
15	---	---	---	---	---	---	---	---	.49	---	.80	---
16	---	---	---	---	---	---	---	---	.39	---	.72	---
17	---	---	---	---	---	---	---	---	.31	---	.64	---
18	---	---	---	---	---	---	---	---	.96	---	.57	---
19	---	---	---	---	---	---	---	---	1.20	---	.50	---
20	---	---	---	---	---	---	---	---	1.17	---	.39	---
21	---	---	---	---	---	---	---	---	1.19	---	---	---
22	---	---	---	---	---	---	---	---	1.08	---	---	---
23	---	---	---	---	---	---	---	---	.97	---	---	---
24	---	---	---	---	---	---	---	---	.88	---	1.34	---
25	---	---	---	---	---	---	---	---	.82	---	1.17	---
26	---	---	---	---	---	---	---	---	.76	---	1.02	---
27	---	---	---	---	---	---	---	---	1.17	---	.98	---
28	---	---	---	---	---	---	---	---	1.36	---	.93	---
29	---	---	---	---	---	---	---	---	1.26	---	.89	---
30	---	---	---	---	---	---	---	---	1.18	---	.88	---
31	---	---	---	---	---	---	---	---	---	1.01	.84	---
MEAN	---	---	---	---	---	---	---	---	.90	.84	.85	1.00
MAX	---	---	---	---	---	---	---	---	1.36	1.11	1.34	1.27
MIN	---	---	---	---	---	---	---	---	.31	.51	.39	.76

03285335 MOCKS BRANCH AT HWY 1896 NEAR DANVILLE, KY--Continued





KENTUCKY RIVER BASIN

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 mi².

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 ft³/s and poor below. Daily discharges determined by drainage area factors to Lock 6 and Lock 10 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.

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

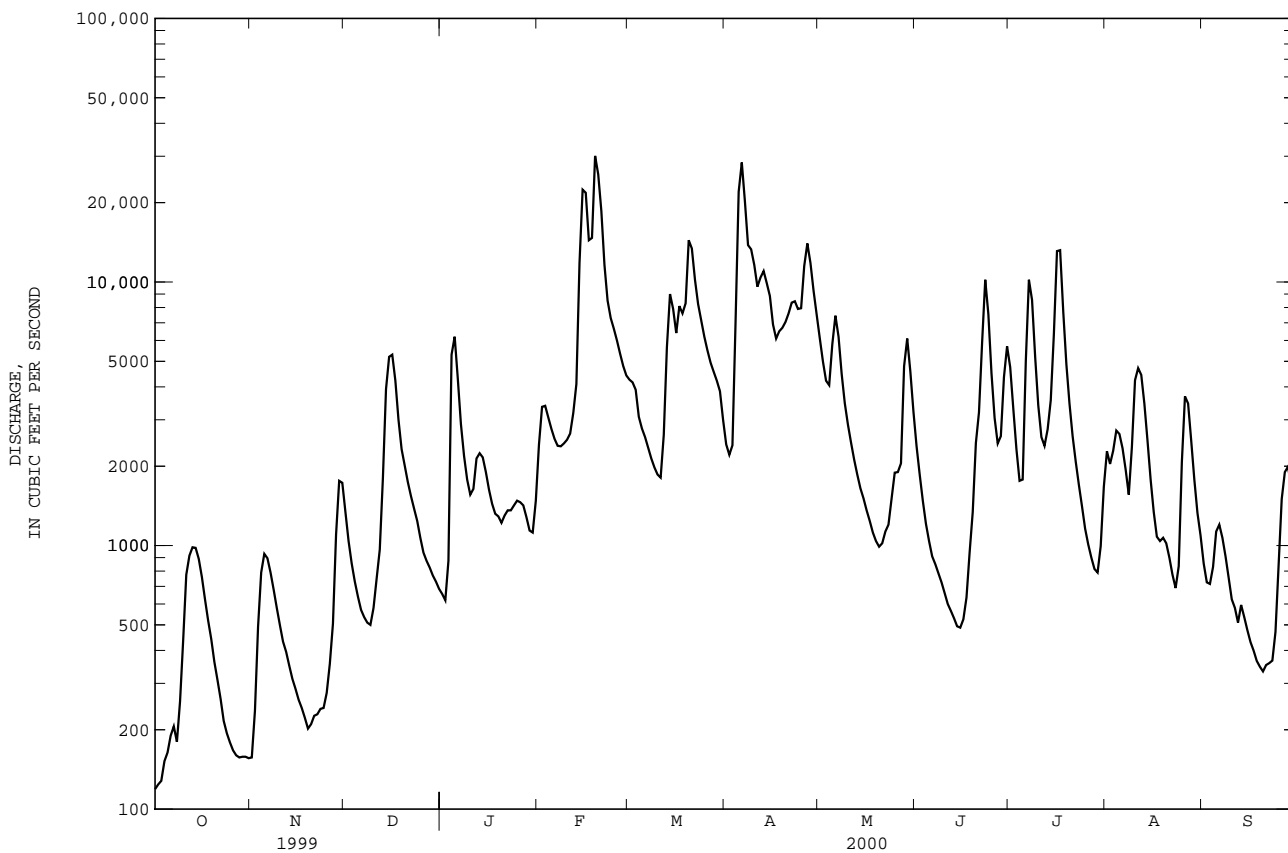
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	157	1340	655	2410	4260	2420	6100	2380	4750	2280	855
2	124	236	1040	620	3360	4160	2210	4990	1860	3300	2040	725
3	128	492	855	875	3390	3900	2400	4220	1480	2320	2290	715
4	152	790	730	5300	3060	3080	7050	4060	1210	1760	2730	830
5	164	930	640	6200	2770	2780	22000	5800	1040	1780	2650	1130
6	190	895	570	4300	2540	2580	28400	7450	910	5000	2340	1200
7	206	790	535	2890	2390	2350	20200	6200	850	10200	1940	1070
8	180	680	510	2190	2380	2140	13800	4480	785	8550	1560	910
9	256	580	500	1780	2440	1980	13300	3470	725	5200	2370	755
10	436	499	580	1560	2520	1860	11600	2880	660	3400	4240	625
11	775	432	750	1640	2660	1810	9600	2460	600	2580	4710	580
12	915	395	965	2140	3180	2630	10400	2120	565	2390	4440	510
13	985	350	1800	2240	4100	5650	11000	1860	530	2760	3450	595
14	980	312	3920	2160	11800	9000	9900	1650	494	3560	2500	535
15	890	286	5200	1900	22400	7900	8850	1510	488	6350	1780	477
16	760	260	5300	1630	21800	6400	6900	1360	525	13100	1340	430
17	625	242	4220	1440	14400	8100	6100	1240	635	13200	1080	399
18	520	222	3000	1320	14700	7600	6500	1120	940	7700	1040	365
19	442	202	2320	1290	30100	8300	6700	1040	1340	4870	1070	347
20	362	210	2010	1220	25600	14400	7050	990	2450	3460	1020	333
21	309	226	1740	1300	18600	13400	7600	1020	3200	2600	900	352
22	262	229	1540	1360	11600	10200	8350	1130	5900	2080	775	358
23	216	240	1380	1360	8500	8250	8450	1200	10200	1700	690	366
24	194	242	1240	1420	7300	7150	7900	1510	7550	1410	835	470
25	179	276	1070	1480	6650	6200	7950	1890	4510	1160	2070	840
26	167	356	940	1460	6000	5500	11500	1900	3050	1010	3680	1500
27	160	505	875	1420	5350	4940	14000	2050	2440	900	3460	1900
28	157	1100	825	1280	4800	4560	11800	4790	2600	815	2500	1990
29	158	1760	770	1140	4420	4220	9250	6100	4360	790	1780	1700
30	158	1730	730	1120	---	3850	7500	4580	5700	995	1330	1320
31	156	---	685	1480	---	3000	---	3220	---	1670	1090	---
TOTAL	11325	15624	48580	58170	251220	172150	300680	94390	69977	121360	65980	24182
MEAN	365	521	1567	1876	8663	5553	10020	3045	2333	3915	2128	806
MAX	985	1760	5300	6200	30100	14400	28400	7450	10200	13200	4710	1990
MIN	119	157	500	620	2380	1810	2210	990	488	790	690	333

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2000, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	1264	3143	5775	11850	11780	16750	11130	9064	5947	2249	1450	829
MAX	3052	9309	12670	22370	26380	29500	21390	22020	18360	4867	2946	2020
(WY)	1994	1997	1994	1994	1994	1997	1994	1995	1997	1998	1993	1996
MIN	324	521	1567	1876	6649	5553	3730	2835	417	435	306	153
(WY)	1998	2000	2000	2000	1999	2000	1999	1993	1999	1999	1999	1999

03286500 KENTUCKY RIVER AT LOCK 7 NEAR HIGH BRIDGE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1993 - 2000	
ANNUAL TOTAL	1435432		1233638		6748	
ANNUAL MEAN	3933		3371		11250	
HIGHEST ANNUAL MEAN					3371	
LOWEST ANNUAL MEAN					87900	
HIGHEST DAILY MEAN	50500	Jan 10	30100	Feb 19	87900	Mar 2 1997
LOWEST DAILY MEAN	106	Sep 12	119	Oct 1	106	Sep 12 1999
ANNUAL SEVEN-DAY MINIMUM	120	Sep 7	155	Oct 1	120	Sep 7 1999
INSTANTANEOUS PEAK FLOW			42800		92800	
INSTANTANEOUS PEAK STAGE			20.57		37.90	
10 PERCENT EXCEEDS	12600		8320		17300	
50 PERCENT EXCEEDS	805		1770		2720	
90 PERCENT EXCEEDS	158		349		443	



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 mi², of which about 101 mi² 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 1000 ft³/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.

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

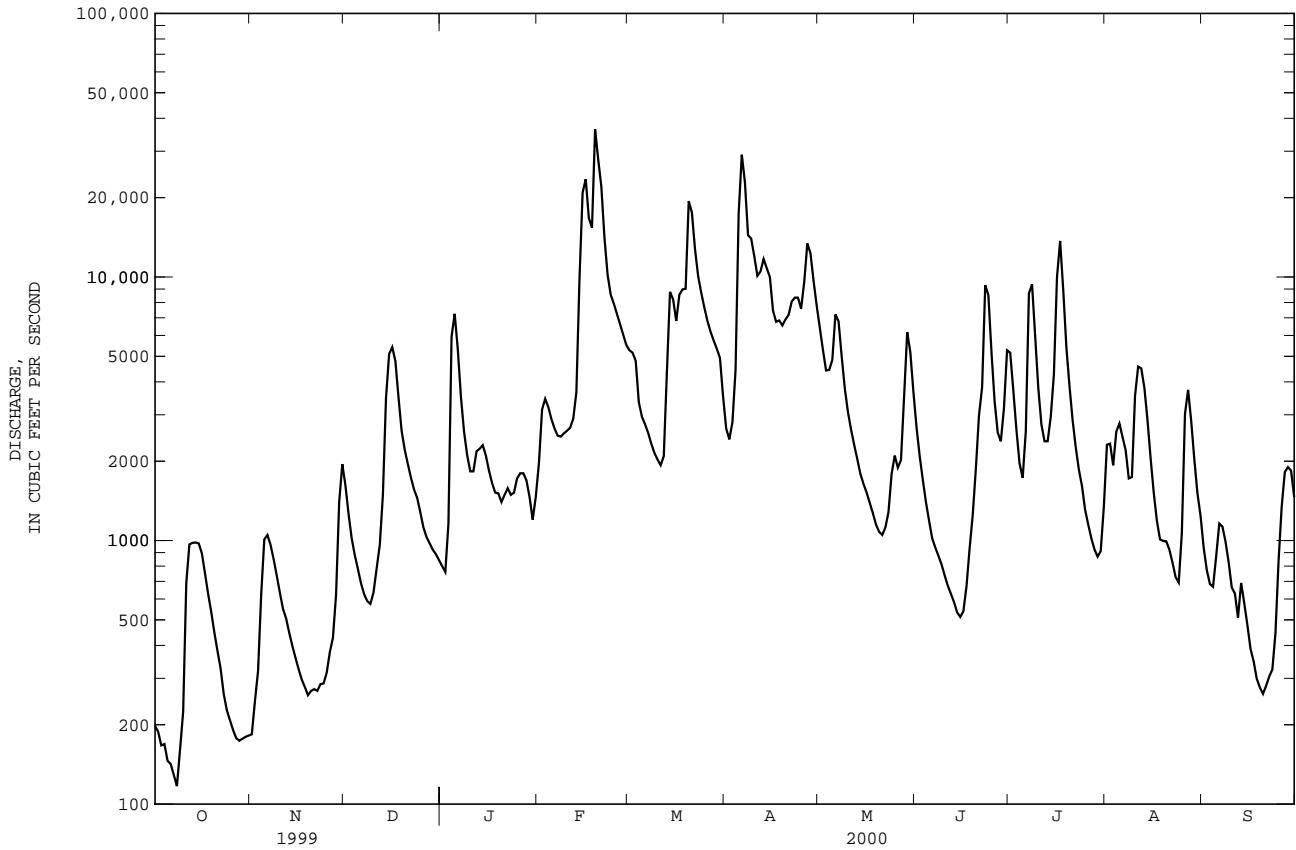
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	198	184	1620	799	1970	5270	2660	6410	2680	5160	2310	939
2	188	246	1260	760	3140	5160	2420	5290	2090	3710	2330	772
3	167	320	1020	1160	3450	4810	2810	4420	1700	2630	1930	684
4	169	623	879	5930	3210	3350	4440	4440	1400	1960	2590	668
5	146	1010	779	7250	2890	2950	17500	4840	1190	1730	2780	872
6	142	1050	687	5320	2660	2760	29100	7210	1020	2600	2470	1160
7	129	963	625	3510	2500	2560	22900	6790	941	8660	2200	1130
8	117	848	589	2590	2480	2330	14400	5010	875	9380	1720	990
9	161	735	575	2110	2550	2150	14000	3780	812	5970	1740	827
10	224	633	636	1830	2610	2030	12000	3080	738	3800	3540	663
11	689	550	784	1830	2680	1930	10100	2640	674	2760	4570	630
12	967	506	961	2180	2900	2090	10500	2310	628	2380	4500	510
13	980	446	1490	2230	3660	4360	11700	2040	584	2380	3800	690
14	983	398	3480	2300	9890	8780	10800	1790	534	2950	2860	579
15	975	359	5100	2100	20900	8220	10000	1640	513	4260	2050	478
16	894	325	5420	1840	23500	6810	7460	1520	539	10000	1520	388
17	751	297	4800	1650	16700	8570	6760	1390	670	13700	1190	348
18	628	278	3500	1520	15400	8970	6840	1270	933	8900	1010	299
19	536	259	2610	1510	36400	9020	6550	1150	1250	5410	997	277
20	448	269	2210	1400	27900	19400	6900	1080	1880	3860	993	262
21	381	273	1950	1490	22000	17600	7180	1050	2980	2860	924	281
22	327	269	1730	1580	14100	12800	8070	1120	3820	2260	825	305
23	262	285	1560	1490	10200	10100	8350	1280	9310	1860	727	324
24	227	287	1450	1520	8570	8730	8350	1790	8540	1610	693	446
25	208	315	1280	1720	7920	7660	7580	2100	5190	1310	1070	842
26	191	377	1120	1800	7240	6810	9580	1890	3380	1150	3020	1350
27	178	428	1030	1800	6620	6190	13400	2020	2570	1020	3730	1820
28	174	623	975	1690	6040	5730	12300	3510	2380	926	2840	1900
29	177	1400	923	1460	5520	5340	9660	6180	3180	869	2030	1840
30	180	1950	887	1200	---	4930	7780	5180	5270	912	1510	1460
31	182	---	842	1470	---	3520	---	3650	---	1340	1240	---
TOTAL	11979	16506	52772	67039	275600	200930	302090	97870	68271	118317	65709	23734
MEAN	386	550	1702	2163	9503	6482	10070	3157	2276	3817	2120	791
MAX	983	1950	5420	7250	36400	19400	29100	7210	9310	13700	4570	1900
MIN	117	184	575	760	1970	1930	2420	1050	513	869	693	262

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2000, BY WATER YEAR (WY)

	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000																				
MEAN	1888	4041	8754	10970	12440	15040	11520	8220	4452	2197	1902	1655	13680	12450	31030	31910	34850	33640	35920	26910	18890	5441	6238	10860	1990	1987	1979	1974	1989	1975	1972	1983	1997	1998	1992	1974	312	493	525	502	2655	3769	1491	1127	362	420	277	188	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1961 - 2000	
ANNUAL TOTAL	1511494		1300817		6898	
ANNUAL MEAN	4141		3554		11050	
HIGHEST ANNUAL MEAN					2826	
LOWEST ANNUAL MEAN					125000	
HIGHEST DAILY MEAN	50300	Jan 11	36400	Feb 19	125000	Dec 10 1978
LOWEST DAILY MEAN	117	Oct 8	117	Oct 8	83	Sep 4 1984
ANNUAL SEVEN-DAY MINIMUM	147	Oct 3	147	Oct 3	112	Nov 8 1991
INSTANTANEOUS PEAK FLOW			41500		Feb 19	130000
INSTANTANEOUS PEAK STAGE			19.72		Feb 19	49.04
10 PERCENT EXCEEDS	13000		8820		17500	
50 PERCENT EXCEEDS	869		1840		3000	
90 PERCENT EXCEEDS	184		323		468	



KENTUCKY RIVER BASIN

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 mi², (includes that of Benson Creek), of which about 120 mi² 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. Due to construction on the dam, daily discharges from Dec. 14 to May 31 have been estimated using hydrologic comparison with other Kentucky River sites. 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.

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	115	192	e1820	e653	e1510	e5680	e1900	e6900	2680	5360	1870	881
2	114	283	1720	e643	e2720	e5520	e1590	e5440	2000	3920	2290	712
3	122	310	1350	e3150	e3600	e6050	e2450	e4220	1640	2570	1820	611
4	136	438	1020	e11000	e3380	e4840	e5520	e4020	1380	1800	2180	576
5	137	929	861	e9570	e2920	e4310	e15600	e4420	1170	1470	2780	621
6	134	1180	713	e7500	e2520	e3700	e29200	e7000	889	1790	2500	930
7	134	1070	628	e5080	e2290	e3090	e27600	e7200	736	6990	2210	1010
8	134	927	594	e3520	e2250	e2780	e20700	e6380	588	10000	1760	918
9	168	775	560	e2870	e2360	e2560	e17800	e4210	457	6800	1560	759
10	e320	630	649	e2490	e2460	e2470	e14200	e3090	388	3950	3790	623
11	364	509	755	e2240	e2580	e2380	e11400	e2480	360	e3000	4740	886
12	696	458	988	e2490	e2730	e2230	e10700	e2020	303	e2500	4690	1020
13	775	416	1870	e2610	e4550	e2760	e12600	e1880	275	2000	4180	638
14	787	374	e4650	e2690	e16000	e9010	e11700	e1610	238	2410	3110	573
15	808	350	e5500	e2550	e25400	e9770	e11000	e1560	240	3500	2140	468
16	739	323	e5700	e2230	e31000	e9270	e8110	e1530	274	8300	1570	416
17	600	305	e5480	e2050	e25000	e10800	e6640	e1380	307	14500	1100	381
18	503	285	e3890	e1930	e23000	e11600	e7150	e1230	580	10600	1210	355
19	430	282	e2700	e1830	e40100	e11200	e6430	e1080	826	6220	866	333
20	382	281	e2190	e1810	e32700	e28900	e6820	e964	1240	4130	853	317
21	345	290	e1920	e1730	e30100	e24900	e7100	e806	2390	2940	820	313
22	327	290	e1710	e1910	e21400	e17600	e8020	e744	3100	2200	726	311
23	284	289	e1510	e1880	e14900	e13000	e8630	e883	8040	1790	635	344
24	263	289	e1390	e1800	e11300	e10700	e8600	e1570	9460	1510	610	532
25	245	310	e1230	e1960	e9880	e9090	e8040	e1990	5940	1110	718	1620
26	220	375	e1010	e2080	e8700	e7900	e9100	e1590	3460	919	2370	2010
27	202	393	e870	e2330	e7860	e7080	e14100	e1650	2460	774	3920	1930
28	203	475	e805	e2320	e7120	e6370	e14200	e2890	2210	693	3160	1970
29	202	1260	e753	e2250	e6300	e5680	e10900	e6000	2500	648	2230	1960
30	199	e2200	e715	e1380	---	e4990	e8430	e5500	4660	656	1640	1630
31	193	---	e687	e1110	---	e3570	---	e4070	---	904	1220	---
TOTAL	10281	16488	56238	89656	346630	249800	326230	96307	60791	115954	65268	25648
MEAN	332	550	1814	2892	11950	8058	10870	3107	2026	3740	2105	855
MAX	808	2200	5700	11000	40100	28900	29200	7200	9460	14500	4740	2010
MIN	114	192	560	643	1510	2230	1590	744	238	648	610	311

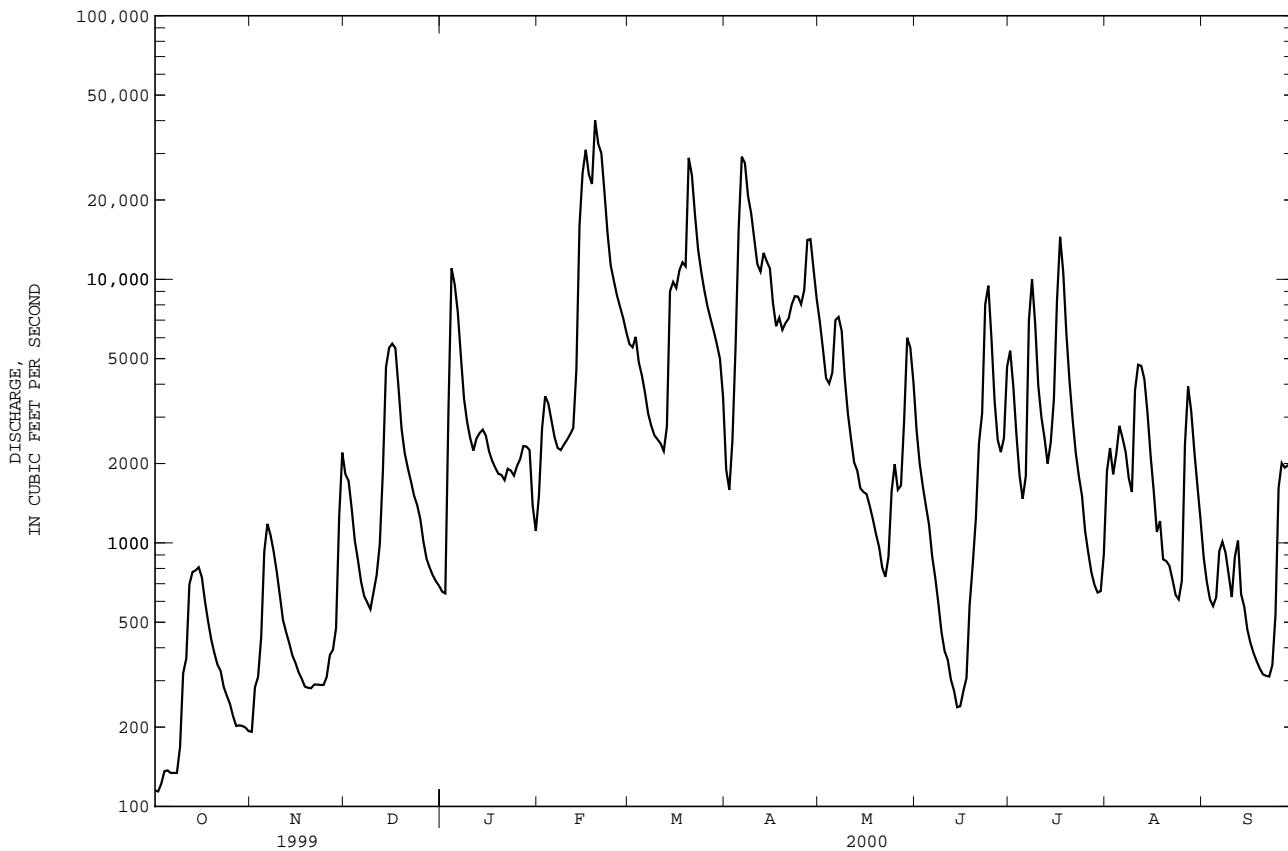
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2000, BY WATER YEAR (WY)

MEAN	1990	4322	9279	11570	13090	15950	11990	8607	4703	2369	2037	1784
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1961 - 2000	
ANNUAL TOTAL	1664019		1459291		7281	
ANNUAL MEAN	4559		3987		11860	
HIGHEST ANNUAL MEAN					3182	
LOWEST ANNUAL MEAN					116000	
HIGHEST DAILY MEAN	49800	Jan 11	40100	Feb 19	116000	Dec 10 1978
LOWEST DAILY MEAN	114	Oct 2	114	Oct 2	93	Jul 10 1988
ANNUAL SEVEN-DAY MINIMUM	125	Sep 29	127	Oct 1	125	Sep 29 1999
INSTANTANEOUS PEAK FLOW			43700		118000	
INSTANTANEOUS PEAK STAGE			21.38		48.47	
10 PERCENT EXCEEDS	15000		10200		18100	
50 PERCENT EXCEEDS	927		1920		3250	
90 PERCENT EXCEEDS	195		311		517	

e Estimated



KENTUCKY RIVER BASIN

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 mi².

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 ft³/s and those estimated, which are poor.

COOPERATION.--Lexington Fayette Urban County Government.

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	e.07	.92	.79	.51	.18	.07	.20	.00
2	.00	.00	.00	.00	e.07	.91	.80	.55	.15	.03	.12	.00
3	.00	.00	.00	.84	e.07	.87	e1.2	.49	.13	.00	.16	.00
4	.00	.00	.00	3.1	e.07	.81	2.8	.47	.10	.00	.12	.00
5	.00	.00	.00	.58	e.07	.76	1.8	.44	.10	e.86	.08	.00
6	.00	.00	.00	.36	e.10	.70	1.4	.41	.10	.95	.03	.00
7	.00	.00	.00	.26	.23	.65	1.1	.38	.08	.33	.00	.00
8	.00	.00	.00	.21	e.34	.67	6.7	.37	.05	.24	.01	.00
9	.00	.00	.00	.20	.42	.77	4.8	.34	.02	.19	.14	.00
10	.00	.00	.11	.20	.53	.73	3.0	.31	.01	.17	.44	.00
11	.00	.00	.19	.17	.53	.91	2.6	.29	.00	.63	.25	.00
12	.00	.00	.10	.14	.47	1.1	3.1	.28	.00	.44	.16	1.1
13	.00	.00	.43	.14	1.1	.95	2.5	.35	.00	.31	.11	.45
14	.00	.00	.44	.11	7.4	.86	2.1	.32	.00	.23	.07	.24
15	.00	.00	.26	.11	3.1	.84	1.6	.27	.00	.18	.02	.16
16	.00	.00	.17	.10	1.1	4.7	1.3	.24	.00	.14	.00	.11
17	.00	.00	.12	.09	.72	7.2	1.6	.22	.23	.11	.00	.08
18	.00	.00	.08	e.09	32	4.2	1.4	.21	.41	.08	.00	.06
19	.00	.00	.06	e.08	13	13	1.2	.18	.32	.11	.00	.03
20	.00	.00	.04	e.08	5.5	34	1.2	.26	.25	.14	.00	.01
21	.00	.00	.03	e.08	4.1	16	1.5	.24	.20	.12	.00	.00
22	.00	.00	.02	e.08	2.9	7.3	1.2	.21	.13	.09	.00	.01
23	.00	.00	.01	e.08	2.2	4.5	1.1	.27	.08	.07	.00	.03
24	.00	.00	.01	e.08	2.2	3.1	1.0	.30	.04	.04	.00	4.9
25	.00	.00	.01	e.07	1.5	1.9	1.0	.22	.01	.01	.05	4.4
26	.00	.00	.01	e.07	2.5	1.4	.86	.17	.03	.00	.03	2.8
27	.00	.00	.01	e.07	2.6	1.3	.74	.99	.11	.00	.02	1.5
28	.00	.00	.01	e.07	1.8	1.2	.65	.41	.22	.00	.01	1.2
29	.00	.00	.00	e.07	.97	1.0	.59	.34	.15	.00	.00	1.0
30	.00	.00	.00	e.07	---	.93	.53	.30	.10	.01	.00	.92
31	.00	---	.00	e.07	---	.85	---	.21	---	.29	.00	---
TOTAL	0.00	0.00	2.11	7.67	87.66	115.03	52.16	10.55	3.20	5.84	2.02	19.00
MEAN	.000	.000	.068	.25	3.02	3.71	1.74	.34	.11	.19	.065	.63
MAX	.00	.00	.44	3.1	32	34	6.7	.99	.41	.95	.44	4.9
MIN	.00	.00	.00	.00	.07	.65	.53	.17	.00	.00	.00	.00

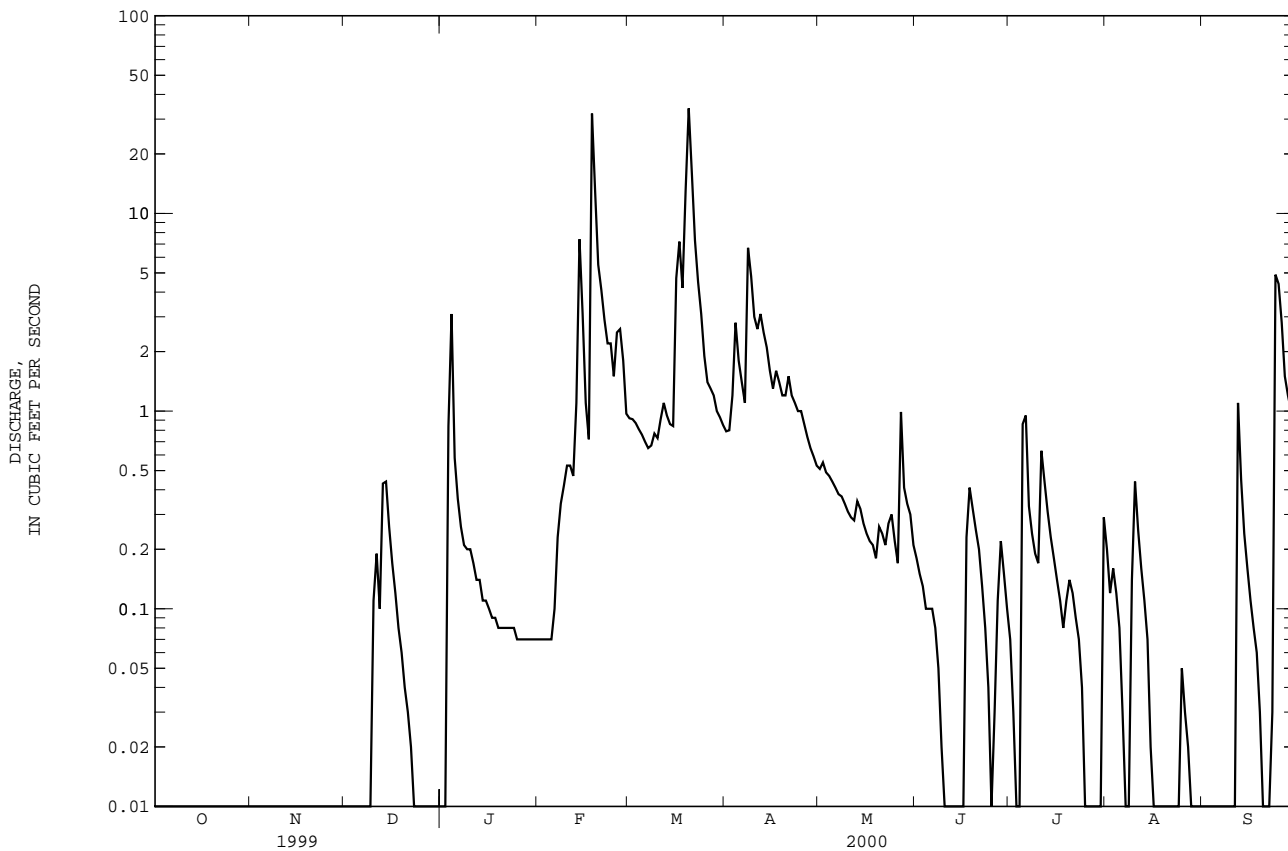
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

	1999	1998	1999	1998	1999	1998	1999	1998	1999	1998	1999	
MEAN	.10	.20	1.04	4.21	4.78	4.21	2.94	1.93	2.58	2.13	.049	.24
MAX	.24	.50	1.84	6.35	6.84	5.06	6.19	5.27	7.61	6.20	.082	.63
(WY)	1999	1998	1999	1998	1998	1999	1998	1998	1998	1998	1998	2000
MIN	.000	.000	.068	.25	3.02	3.71	.90	.20	.028	.016	.000	.000
(WY)	2000	2000	2000	2000	2000	2000	1999	1999	1999	1999	1999	1999

03287580 NORTH ELKHORN CREEK AT BRYANT ROAD NEAR CADENTOWN, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	507.31		305.24			
ANNUAL MEAN	1.39		.83		2.02	
HIGHEST ANNUAL MEAN					3.66	
LOWEST ANNUAL MEAN					.83	
HIGHEST DAILY MEAN	40	Jan 9	34	Mar 20	89	Jul 20 1998
LOWEST DAILY MEAN	.00	May 22	.00	Oct 1	.00	Oct 1 1997
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 17	.00	Oct 1	.00	Oct 1 1997
INSTANTANEOUS PEAK FLOW			191	Feb 18	281	Jun 29 1998
INSTANTANEOUS PEAK STAGE			4.25	Feb 18	5.11	Jun 29 1998
10 PERCENT EXCEEDS	4.1		1.6		5.1	
50 PERCENT EXCEEDS	.01		.11		.30	
90 PERCENT EXCEEDS	.00		.00		.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 mi².

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 ft³/s and for periods of estimated record, which are poor.

COOPERATION.--Lexington Fayette Urban County Government.

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	.04	.00	.15	e.17	e.25	1.2	.69	.94	.63	.28	1.7	.10
2	.02	7.9	.14	.20	e.24	.81	1.7	1.3	.51	.19	2.1	.13
3	.00	1.5	.11	24	e.35	.66	6.7	.91	.40	.13	2.8	.10
4	.00	.75	.15	25	e.45	.56	10	2.1	.33	.25	.57	.08
5	.00	.39	.89	5.1	e.60	.45	4.0	.82	.29	10	.32	.06
6	.00	.34	.49	2.2	e.80	.35	2.3	.73	.26	7.6	.18	.04
7	.00	.27	.21	1.3	e1.1	.27	1.5	.53	.38	1.7	.63	.02
8	.00	.21	.16	.97	e1.3	.26	25	.56	.22	.88	2.0	6.0
9	11	.19	.15	1.1	e1.4	.99	13	.41	.17	.57	.55	.67
10	3.8	.15	6.2	.86	1.5	.26	8.1	.32	.15	.39	9.4	.24
11	.82	.11	1.4	.78	1.5	2.9	9.7	.31	.11	13	1.0	3.6
12	.28	.11	1.8	.53	1.1	1.0	9.1	.26	.11	2.2	.35	20
13	.15	.13	14	.61	11	.47	6.7	2.1	.09	.95	.18	4.0
14	.12	.11	8.4	.37	22	.31	5.4	.44	.07	.52	e.15	1.2
15	.12	.09	2.7	.33	7.5	.24	4.4	.31	.34	.32	e.08	.42
16	.07	.06	1.3	.32	3.6	18	3.4	.26	.41	.24	e.05	.17
17	.06	.06	.90	.26	2.1	18	7.2	.49	7.7	.15	e.06	.10
18	.05	.05	.68	.46	119	9.0	4.9	.28	4.8	.11	e.06	.05
19	.03	.05	.52	.51	42	41	3.4	1.1	2.7	2.0	e.07	.04
20	.02	.83	.58	.90	18	77	5.6	.46	1.5	.45	e.08	.03
21	.01	.21	.41	e.50	10	36	5.7	.30	1.0	.24	e.05	1.2
22	.00	.13	.31	e.42	6.1	19	3.8	.23	.72	.15	e.03	.03
23	.00	.10	e.25	e.38	3.9	12	2.9	2.6	.42	.08	e.03	4.6
24	.00	.44	e.23	e.35	8.1	7.8	3.6	.62	.24	.06	e.06	36
25	.00	1.2	e.20	e.34	4.0	5.0	3.0	.30	.79	.05	e.10	30
26	.00	3.3	e.19	e.31	3.9	3.0	2.1	.18	.81	.04	e.15	15
27	.00	.64	e.18	e.30	5.4	3.2	1.7	16	4.7	.03	e.20	5.2
28	.00	.30	e.17	e.29	2.8	2.1	1.4	3.1	1.5	.02	e.25	2.7
29	.00	.21	e.16	e.27	1.2	1.4	1.2	1.6	.73	.53	.17	1.6
30	.00	.18	e.15	e.26	---	1.1	1.0	1.2	.39	2.4	.09	1.1
31	.00	---	e.16	e.26	---	.85	---	.88	---	5.4	.06	---
TOTAL	16.59	20.01	43.34	69.65	281.19	265.18	159.19	41.64	32.47	50.93	23.52	134.48
MEAN	.54	.67	1.40	2.25	9.70	8.55	5.31	1.34	1.08	1.64	.76	4.48
MAX	11	7.9	14	25	119	77	25	16	7.7	13	9.4	36
MIN	.00	.00	.11	.17	.24	.24	.69	.18	.07	.02	.03	.02

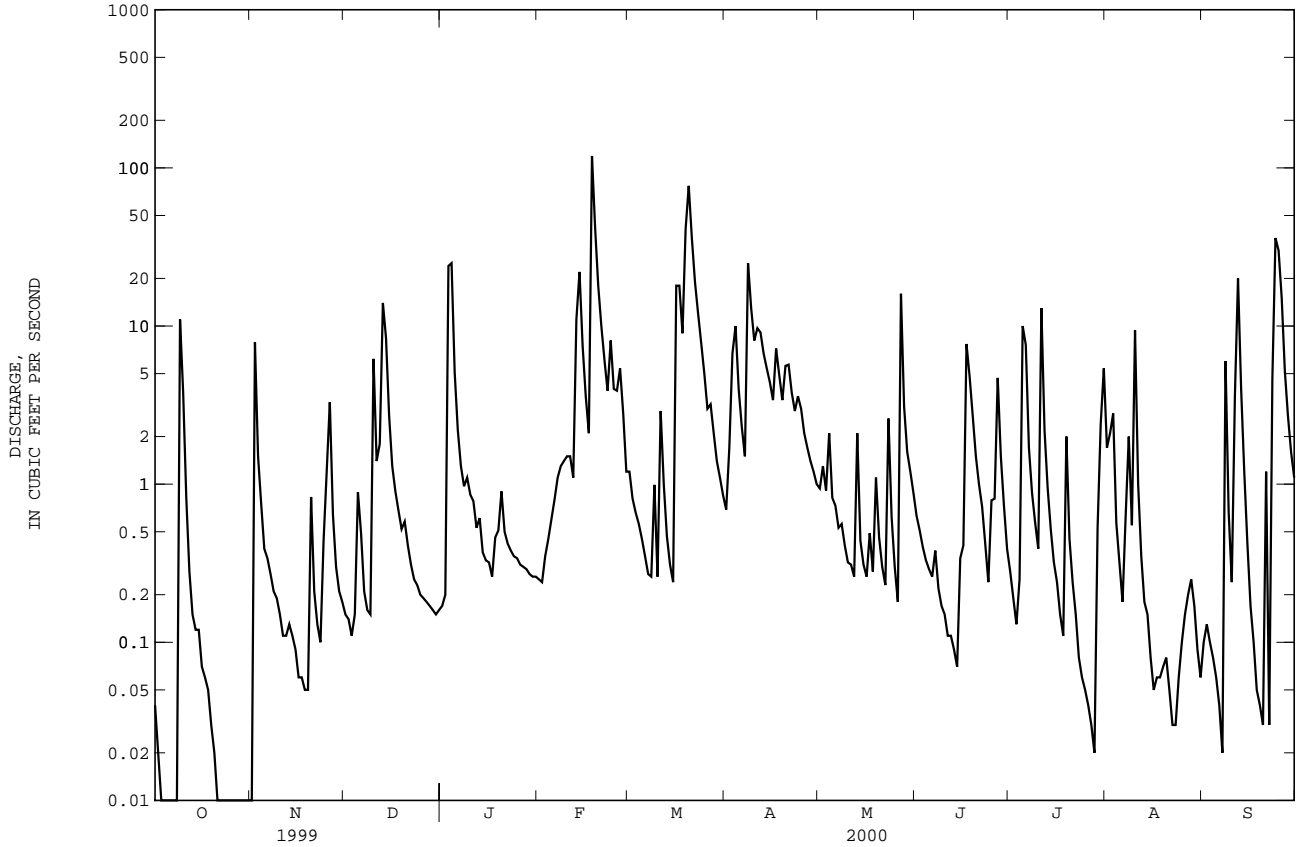
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

	1998	1999	2000
MEAN	.72	1.08	2.35
MAX	1.29	1.73	3.03
(WY)	1999	1998	1999
MIN	.33	.67	1.40
(WY)	1998	2000	2000

03287590 NORTH ELKHORN CREEK AT WINCHESTER ROAD NEAR LEXINGTON, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	1261.30		1138.19		4.89	
ANNUAL MEAN	3.46		3.11		7.88	
HIGHEST ANNUAL MEAN					3.11 1998	
LOWEST ANNUAL MEAN					357 2000	
HIGHEST DAILY MEAN	85	Jan 9	119	Feb 18	Jul 20 1998	
LOWEST DAILY MEAN	.00	Aug 7	.00	Oct 3	Oct 5 1997	
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 14	.00	Oct 22	Oct 5 1997	
INSTANTANEOUS PEAK FLOW			633	Feb 18	1640 Jul 20 1998	
INSTANTANEOUS PEAK STAGE			5.82	Feb 18	6.78 Jul 20 1998	
10 PERCENT EXCEEDS	11		7.7		12	
50 PERCENT EXCEEDS	.34		.48		.94	
90 PERCENT EXCEEDS	.00		.05		.03	

e Estimated



KENTUCKY RIVER BASIN

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, and at mile 86.0.

DRAINAGE AREA.--21.5 mi².

PERIOD OF RECORD.--October 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 892.042 ft above NGVD of 1929.

REMARKS.--Records fair except for those below 10 ft³/s and those estimated, which are poor.

COOPERATION.--Lexington Fayette Urban County Government.

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	.19	.00	.61	e1.9	e4.6	17	13	6.7	2.3	1.0	7.5	.36
2	.13	23	.58	e2.0	e4.4	15	15	7.5	1.6	.78	5.8	.35
3	.09	11	.54	e8.0	e4.2	14	35	6.9	1.3	.75	33	.43
4	.05	7.6	.48	115	e4.0	13	50	17	1.1	.66	4.6	.45
5	.01	4.1	.47	27	e3.8	12	26	7.0	1.1	28	1.7	.36
6	.00	2.1	1.2	18	e4.0	11	20	6.4	1.1	21	.97	.30
7	.00	1.3	.97	14	e6.0	11	17	5.4	.96	3.2	.78	.25
8	.00	.90	.73	13	e8.2	11	128	4.9	.92	1.7	13	20
9	33	.64	.61	13	e12	12	64	4.6	.86	1.2	6.7	2.7
10	20	.49	22	13	e18	11	39	3.9	.79	.92	46	1.0
11	1.9	.39	5.2	12	19	17	38	3.3	.74	43	7.2	11
12	.54	.30	4.0	11	15	12	44	3.1	.68	4.5	1.3	112
13	.32	.27	54	12	41	9.2	26	9.0	.61	2.2	.50	23
14	.20	.28	36	11	132	8.2	20	4.2	.56	1.6	.37	9.9
15	.14	.28	14	10	44	7.6	16	2.8	.50	1.1	.27	3.5
16	.10	e.24	10	11	26	73	13	2.1	.42	.87	.21	1.2
17	.08	e.20	8.0	11	19	70	23	1.9	80	.69	.18	.93
18	.06	e.17	6.9	12	608	36	17	3.0	25	.59	.19	.77
19	.04	e.20	6.1	13	291	176	13	1.7	6.1	4.9	e.22	.65
20	.02	e1.3	5.8	14	88	392	19	3.0	3.7	1.5	e.24	.54
21	.01	e.50	5.8	e12	53	167	25	2.1	3.2	.97	e.10	4.9
22	.01	e.30	4.7	e9.0	37	87	15	1.7	1.9	.78	e.06	.77
23	.02	e.20	3.8	e8.0	26	56	12	6.8	1.1	.63	e.10	4.8
24	.02	e.70	e3.2	e7.4	41	39	12	5.3	.84	.54	10	139
25	.03	e2.0	e2.8	e6.8	32	29	12	2.8	2.5	.46	1.3	157
26	.02	5.4	e2.6	e6.2	26	23	9.4	1.8	1.1	.42	.76	81
27	.02	1.5	e2.2	e5.8	29	23	8.7	54	13	.46	2.1	35
28	.03	.89	e2.0	e5.4	21	19	8.3	11	4.8	.41	.88	22
29	.03	.76	e1.7	e5.2	17	16	7.7	7.1	2.2	.42	.62	15
30	.02	.66	e1.5	e5.0	---	15	6.9	5.1	1.3	5.4	.50	12
31	.00	---	e1.7	e4.8	---	14	---	3.6	---	8.4	.40	---
TOTAL	57.08	67.67	210.19	489.5	1634.2	1416.0	753.0	205.7	162.28	139.05	147.55	661.16
MEAN	1.84	2.26	6.78	15.8	56.4	45.7	25.1	6.64	5.41	4.49	4.76	22.0
MAX	33	23	54	115	608	392	128	54	80	43	46	157
MIN	.00	.00	.47	1.9	3.8	7.6	6.9	1.7	.42	.41	.06	.25

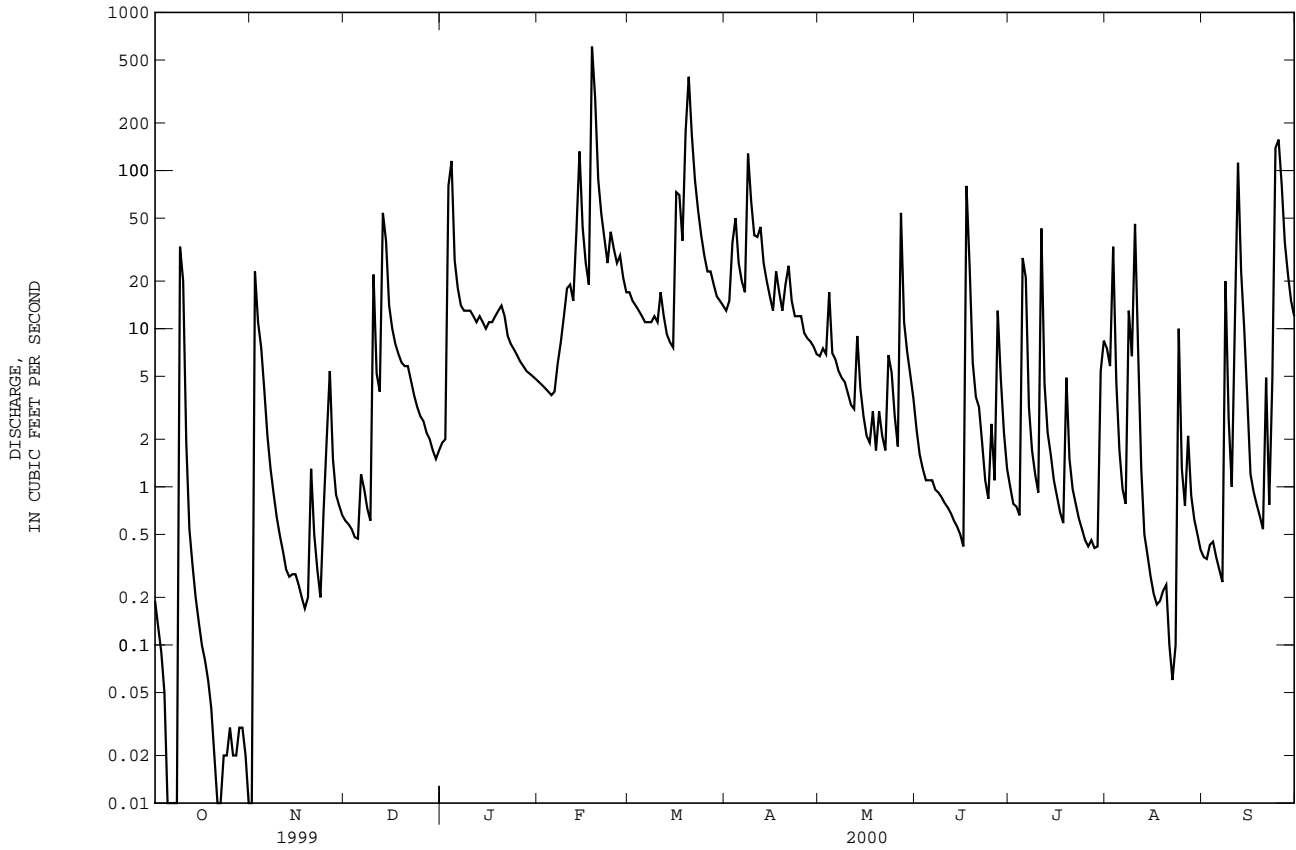
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

	1998	1999	2000	1998	1999	2000	1998	1999	2000	1998	1999	2000
MEAN	2.34	4.19	12.9	48.1	54.3	42.3	30.1	19.9	42.3	30.0	2.37	7.54
MAX	4.16	6.43	19.0	65.5	67.5	50.9	57.0	48.9	118	84.5	4.76	22.0
(WY)	1999	1998	1999	1999	1998	1999	1998	1998	1998	1998	2000	2000
MIN	1.03	2.26	6.78	15.8	39.0	30.3	8.29	4.00	3.41	1.06	1.13	.007
(WY)	1998	2000	2000	2000	1999	1998	1999	1999	1999	1999	1998	1999

03287600 NORTH ELKHORN CREEK AT BRYAN STATION ROAD AT MONTROSE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	5580.43		5943.38		24.5	
ANNUAL MEAN	15.3		16.2		40.7	
HIGHEST ANNUAL MEAN					16.2	
LOWEST ANNUAL MEAN					1830	
HIGHEST DAILY MEAN	489	Jan 9	608	Feb 18	Jul 20 1998	
LOWEST DAILY MEAN	.00	Aug 3	.00	Oct 6	Oct 8 1997	
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 3	.02	Oct 26	Sep 8 1998	
INSTANTANEOUS PEAK FLOW			2600		7900	
INSTANTANEOUS PEAK STAGE			7.06		10.23	
INSTANTANEOUS LOW FLOW			.00		.00	
10 PERCENT EXCEEDS	43		35		51	
50 PERCENT EXCEEDS	1.7		4.4		5.8	
90 PERCENT EXCEEDS	.00		.21		.07	

e Estimated



KENTUCKY RIVER BASIN

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 mi², of which about 8 mi² 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, from topographic map. Prior to Oct. 1, 1994 at datum 3.40 ft. lower.

REMARKS.--Records good except for those below 80 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 18	2300	*7,180	*11.18	No other peak greater than base discharge.			

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	5.0	1.7	9.5	9.1	17	166	113	56	42	30	15	14
2	3.7	15	10	8.9	19	148	117	56	32	21	17	14
3	3.2	23	10	124	18	132	167	55	32	15	25	14
4	3.2	15	11	591	17	121	385	63	26	63	52	13
5	3.0	11	10	274	17	108	336	69	21	176	38	13
6	2.5	12	10	124	17	89	241	58	20	121	24	13
7	2.2	13	10	73	18	77	196	47	16	108	19	13
8	2.0	12	9.8	51	20	68	679	55	15	56	21	19
9	e10	11	10	41	24	62	690	50	14	34	38	24
10	e37	10	23	34	32	57	456	41	13	25	144	32
11	17	9.1	27	29	39	64	341	35	13	91	111	164
12	18	8.1	24	27	38	73	345	31	12	102	62	198
13	19	7.3	103	24	161	81	290	42	11	80	40	296
14	18	7.1	156	22	1180	56	245	47	11	48	30	135
15	13	7.0	138	20	559	47	216	39	16	32	24	81
16	7.7	7.0	82	18	306	148	189	39	31	22	20	60
17	5.5	6.9	59	17	205	442	182	33	25	19	19	42
18	4.6	7.1	37	18	2080	316	211	35	129	17	115	30
19	3.9	7.1	24	18	4740	415	174	33	159	24	56	26
20	3.4	7.2	21	18	1120	1930	142	44	88	29	33	22
21	3.1	7.6	20	17	659	1690	164	47	116	20	24	27
22	3.0	7.2	16	16	482	895	182	37	50	20	20	25
23	2.6	7.1	14	17	369	600	145	37	33	19	18	22
24	2.6	7.1	13	17	314	440	127	39	26	17	19	71
25	2.5	7.3	12	16	324	339	122	36	21	16	18	370
26	2.5	11	11	15	267	266	112	38	22	14	16	609
27	2.9	12	11	14	244	233	95	53	36	12	21	292
28	3.1	10	11	13	225	208	83	131	56	11	26	162
29	2.8	8.8	10	12	186	167	76	123	69	12	18	100
30	2.2	8.9	9.8	14	---	143	65	80	47	15	15	72
31	2.1	---	9.4	15	---	127	---	59	---	15	14	---
TOTAL	211.3	284.6	921.5	1707.0	13697	9708	6886	1608	1202	1284	1112	2973
MEAN	6.82	9.49	29.7	55.1	472	313	230	51.9	40.1	41.4	35.9	99.1
MAX	37	23	156	591	4740	1930	690	131	159	176	144	609
MIN	2.0	1.7	9.4	8.9	17	47	65	31	11	11	14	13
CFSM	.05	.06	.20	.37	3.21	2.13	1.56	.35	.27	.28	.24	.67
IN.	.05	.07	.23	.43	3.47	2.46	1.74	.41	.30	.32	.28	.75

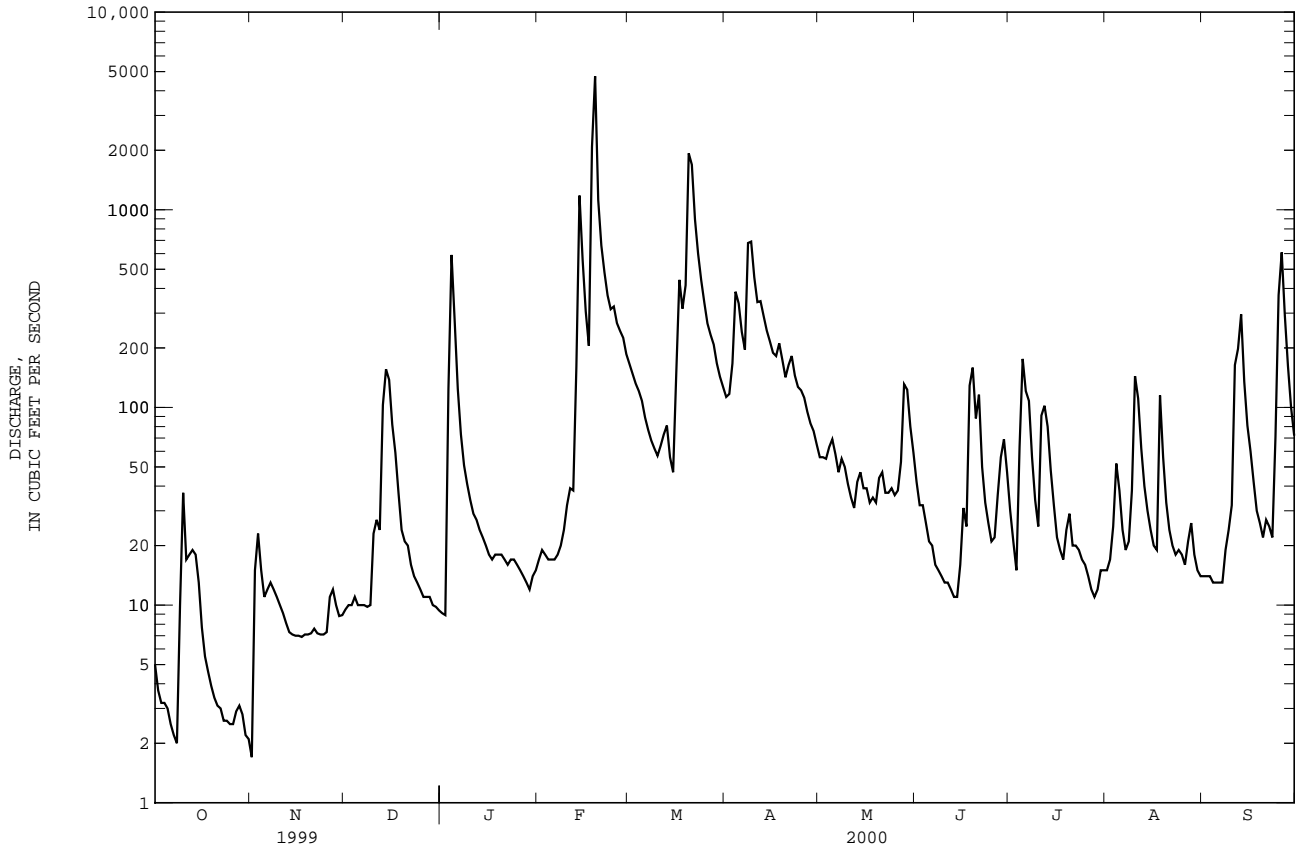
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2000, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	31.1	124	208	415	411	575	232	315
MAX	71.2	398	564	631	552	1574	408	786
(WY)	1994	1994	1997	1994	1997	1997	1994	1995
MIN	6.82	9.49	29.7	55.1	211	242	62.7	25.0
(WY)	2000	2000	2000	2000	1996	1998	1999	1999

03288100 NORTH ELKHORN CREEK AT GEORGETOWN, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1993 - 2000	
ANNUAL TOTAL	40324.8		41594.4			
ANNUAL MEAN	110		114		232	
HIGHEST ANNUAL MEAN					371 1997	
LOWEST ANNUAL MEAN					114 2000	
HIGHEST DAILY MEAN	2370	Jan 9	4740	Feb 19	11000	Mar 3 1997
LOWEST DAILY MEAN	1.3	Sep 18	1.7	Nov 1	1.3	Sep 18 1999
ANNUAL SEVEN-DAY MINIMUM	1.6	Sep 14	2.5	Oct 26	1.6	Sep 14 1999
INSTANTANEOUS PEAK FLOW			7180 Feb 18		19300 Mar 2 1997	
INSTANTANEOUS PEAK STAGE			11.18 Feb 18		19.01 Mar 2 1997	
ANNUAL RUNOFF (CFSM)	.75		.77		1.58	
ANNUAL RUNOFF (INCHES)	10.20		10.53		21.47	
10 PERCENT EXCEEDS	348		251		532	
50 PERCENT EXCEEDS	15		27		74	
90 PERCENT EXCEEDS	3.0		7.5		9.1	

e Estimated



KENTUCKY RIVER BASIN

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 800.00 ft above NGVD of 1929, from topographic map. Dec. 2, 1999 gage was moved upstream 5 ft.

REMARKS.--Estimated daily discharges: Nov. 30, Dece. 1, 30, 31, Feb. 4-8, and Aug. 8, 9. Records good 10 ft³/s to 200 ft³/s and poor below 10 ft³/s. and above 200 ft³/s, and for periods of estimated record. Flow regulated by Georgetown Water Plant.

COOPERATION.--City of Georgetown.

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	2.5	.03	e1.3	.45	2.1	24	20	10	5.6	5.1	e28	.43
2	1.9	2.8	e13	.44	1.9	23	20	9.9	5.3	4.3	e16	2.3
3	2.2	2.7	3.4	19	1.8	21	25	8.8	4.4	3.9	10	6.5
4	.62	1.8	.49	29	1.6	19	29	15	3.6	4.4	4.7	2.8
5	.72	1.6	1.2	16	1.8	17	26	11	2.4	15	3.8	1.9
6	.70	1.5	1.1	14	1.5	15	23	9.4	2.7	19	3.3	1.2
7	.41	1.4	.08	14	1.1	15	22	8.3	2.8	13	1.6	1.0
8	.51	1.3	.02	11	1.8	13	28	7.4	3.1	9.0	5.9	12
9	e7.0	1.2	.02	8.5	2.4	13	24	5.9	1.6	6.6	9.8	11
10	e12	.96	19	6.8	2.7	12	28	5.8	1.5	4.9	25	6.4
11	4.8	.68	24	5.7	2.8	13	26	4.7	1.4	21	14	8.0
12	3.0	.87	21	4.7	3.9	15	e28	4.1	.97	14	9.3	20
13	2.4	1.1	32	4.9	7.8	12	e26	7.8	.80	10	5.8	16
14	2.1	1.1	33	4.2	27	11	e28	6.9	.70	7.5	4.0	12
15	1.8	.57	28	4.0	15	9.8	27	4.9	2.3	6.1	3.0	8.0
16	1.8	.20	13	3.0	15	20	26	4.1	1.6	4.6	2.4	5.9
17	1.6	.12	5.3	2.3	22	21	26	4.2	7.1	3.5	3.6	4.4
18	1.5	.10	3.9	2.4	27	22	26	3.9	27	2.8	8.9	3.2
19	1.4	.07	3.0	2.3	21	21	24	8.3	18	4.9	5.4	3.2
20	1.2	.43	2.7	3.5	14	21	23	8.4	13	5.4	3.9	2.7
21	2.1	.48	2.3	2.1	23	28	27	5.8	10	3.7	2.7	3.0
22	1.5	.27	1.9	2.1	26	27	25	4.1	7.8	3.5	2.1	2.6
23	1.2	.22	1.5	1.9	22	29	24	5.3	5.5	2.7	2.0	3.0
24	1.1	.36	1.4	1.7	20	26	22	5.4	4.7	1.9	2.5	29
25	.67	.70	1.6	1.5	24	23	21	4.3	4.6	1.5	2.4	31
26	.58	1.4	e2.6	1.4	28	20	18	3.4	4.2	1.3	2.3	e20
27	.41	1.4	e1.5	1.4	28	23	16	14	8.7	e1.2	2.2	e28
28	.26	1.4	.62	1.1	27	27	15	18	15	e1.4	1.4	24
29	.20	1.3	.45	2.8	26	25	14	13	8.9	e3.5	1.2	21
30	.14	1.2	.36	1.9	---	24	12	9.3	6.1	e7.0	.75	19
31	.06	---	.43	1.8	---	23	---	6.6	---	e14	1.0	---
TOTAL	58.38	29.26	220.17	175.89	398.2	612.8	699	238.0	181.37	206.7	188.95	309.53
MEAN	1.88	.98	7.10	5.67	13.7	19.8	23.3	7.68	6.05	6.67	6.10	10.3
MAX	12	2.8	33	29	28	29	29	18	27	21	28	31
MIN	.06	.03	.02	.44	1.1	9.8	12	3.4	.70	1.2	.75	.43

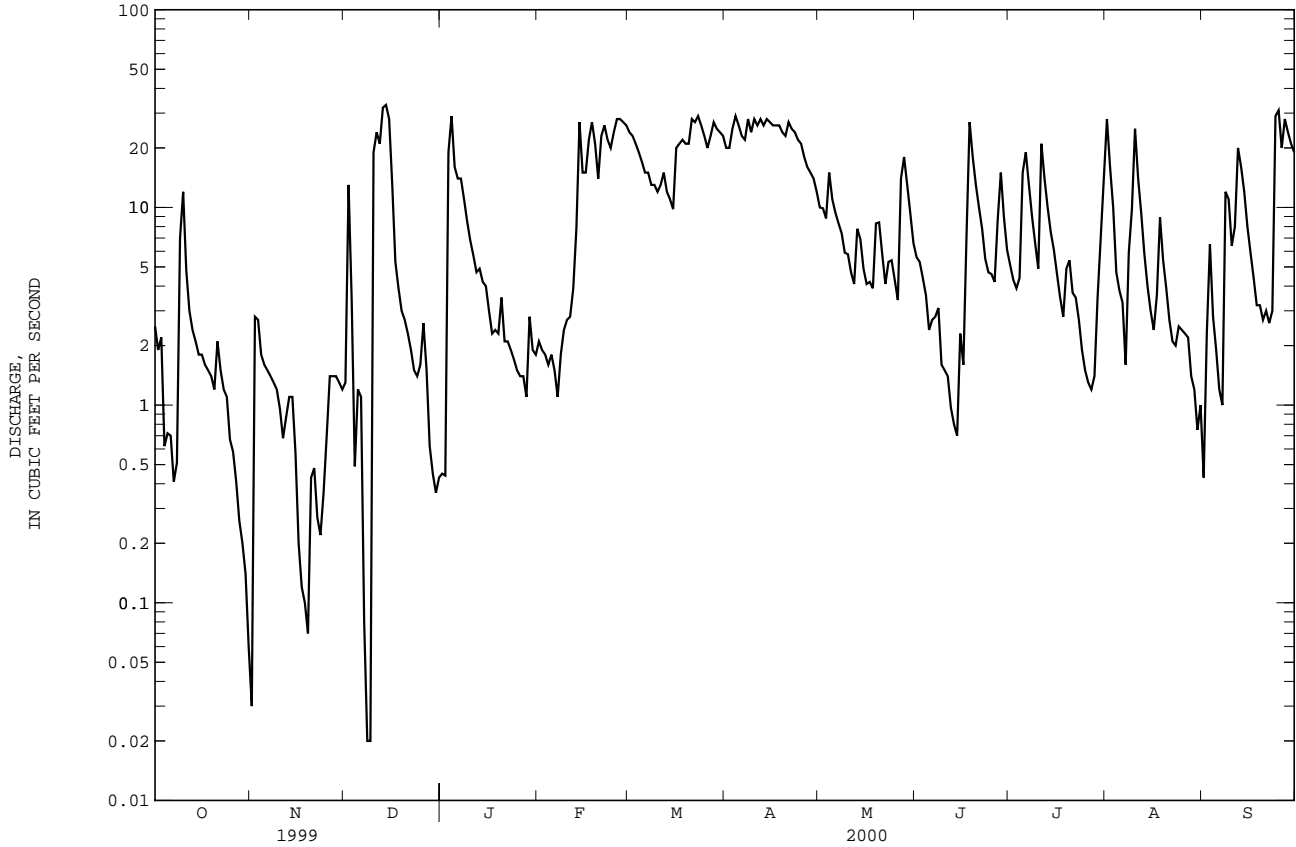
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2000, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	5.09	13.9	24.4	37.3	36.8	46.4	30.2	28.9
MAX	9.63	35.9	48.3	49.0	52.5	77.5	47.5	55.9
(WY)	1997	1994	1997	1996	1994	1997	1994	1996
MIN	1.57	.98	6.00	5.67	13.7	19.8	13.5	5.26
(WY)	1999	2000	1999	2000	2000	2000	1999	1999

03288110 ROYAL SPRINGS AT GEORGETOWN, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1993 - 2000	
ANNUAL TOTAL	5277.59		3318.25		22.9	
ANNUAL MEAN	14.5		9.07		30.5	
HIGHEST ANNUAL MEAN					9.07	
LOWEST ANNUAL MEAN					313	
HIGHEST DAILY MEAN	100	Jan 9	33	Dec 14		Mar 1 1997
LOWEST DAILY MEAN	.00	Sep 22	.02	Dec 8	.00	Oct 15 1993
ANNUAL SEVEN-DAY MINIMUM	.02	Sep 20	.24	Nov 16	.00	Oct 4 1997
INSTANTANEOUS PEAK FLOW			39	Feb 18	2240	Mar 1 1997
INSTANTANEOUS PEAK STAGE			5.77	Feb 18	7.30	Mar 1 1997
10 PERCENT EXCEEDS	48		25		55	
50 PERCENT EXCEEDS	3.2		4.7		15	
90 PERCENT EXCEEDS	.09		.71		.94	

e Estimated



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 mi², of which about 3.0 mi² 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 4	0245	535	5.66	Mar 19	2300	560	5.75
Feb 18	1550	950	6.91	Jun 17	2030	607	5.91
Feb 18	2340	*1,300	*7.73				

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	6.8	3.3	1.5	2.8	6.8	23	12	7.8	5.0	5.3	5.9	.60
2	4.0	30	1.5	2.9	6.5	20	13	8.6	3.8	4.0	4.0	.71
3	3.1	12	1.4	123	6.2	17	33	7.7	3.4	3.2	3.9	1.9
4	3.0	4.5	1.4	208	6.4	15	68	33	2.8	3.9	6.9	.93
5	3.8	2.7	1.5	52	6.7	14	33	13	2.6	16	5.0	.92
6	3.9	2.1	2.3	26	6.5	12	23	9.4	2.4	14	2.6	.67
7	3.8	1.9	1.9	17	7.2	11	18	7.9	2.0	7.1	3.3	.55
8	2.3	1.8	1.5	13	11	10	143	7.1	1.8	4.6	10	22
9	e36	1.8	1.4	11	13	11	73	6.6	1.7	3.5	8.8	6.3
10	e20	1.8	16	9.8	14	9.6	47	5.9	1.4	3.0	60	3.1
11	10	1.9	6.8	8.0	13	15	47	5.2	1.4	40	8.4	11
12	6.7	1.8	4.0	6.6	10	16	57	5.1	1.4	13	4.5	74
13	5.2	1.7	66	6.5	24	11	39	17	1.2	8.0	2.8	23
14	5.3	1.6	59	5.1	174	9.3	33	7.3	1.1	5.4	2.3	9.0
15	4.4	1.4	23	4.3	66	8.3	28	5.0	2.0	4.1	2.5	5.4
16	3.9	1.3	14	4.0	38	89	23	4.2	1.6	3.2	2.0	3.7
17	4.1	1.3	10	3.4	26	94	31	5.6	114	2.7	1.7	3.1
18	3.9	1.1	8.3	3.6	447	46	33	6.6	93	2.4	2.0	2.3
19	3.8	1.1	6.9	4.0	412	219	23	5.3	43	9.6	2.3	1.7
20	3.6	1.4	6.4	5.9	156	387	23	9.5	26	6.6	1.7	1.4
21	3.2	2.5	6.0	5.2	86	225	40	5.5	18	3.7	1.5	7.0
22	2.6	2.1	4.8	4.5	60	127	24	4.5	12	3.5	1.3	2.4
23	3.2	1.8	4.1	e4.0	43	81	20	16	8.7	3.5	1.1	18
24	3.4	1.5	3.8	e3.7	55	57	18	16	6.8	3.0	8.8	82
25	3.3	1.4	3.5	e3.3	42	42	18	6.6	12	2.4	2.3	121
26	3.7	5.2	3.4	e3.0	34	32	14	4.3	7.4	2.0	1.3	76
27	3.9	5.5	3.2	2.7	40	30	12	63	16	1.8	6.5	29
28	3.7	2.9	3.0	2.5	30	24	11	25	17	1.7	2.1	18
29	3.5	2.1	3.0	3.4	25	19	9.8	13	9.7	3.5	1.2	13
30	3.3	1.7	2.9	11	---	16	8.5	8.9	6.9	14	.89	9.6
31	3.3	---	2.8	7.6	---	13	---	6.6	---	14	.68	---
TOTAL	174.7	103.2	275.3	567.8	1865.3	1703.2	975.3	347.2	426.1	212.7	168.27	548.28
MEAN	5.64	3.44	8.88	18.3	64.3	54.9	32.5	11.2	14.2	6.86	5.43	18.3
MAX	36	30	66	208	447	387	143	63	114	40	60	121
MIN	2.3	1.1	1.4	2.5	6.2	8.3	8.5	4.2	1.1	1.7	.68	.55
CFSM	.27	.16	.42	.86	3.03	2.59	1.53	.53	.67	.32	.26	.86
IN.	.31	.18	.48	1.00	3.27	2.99	1.71	.61	.75	.37	.30	.96

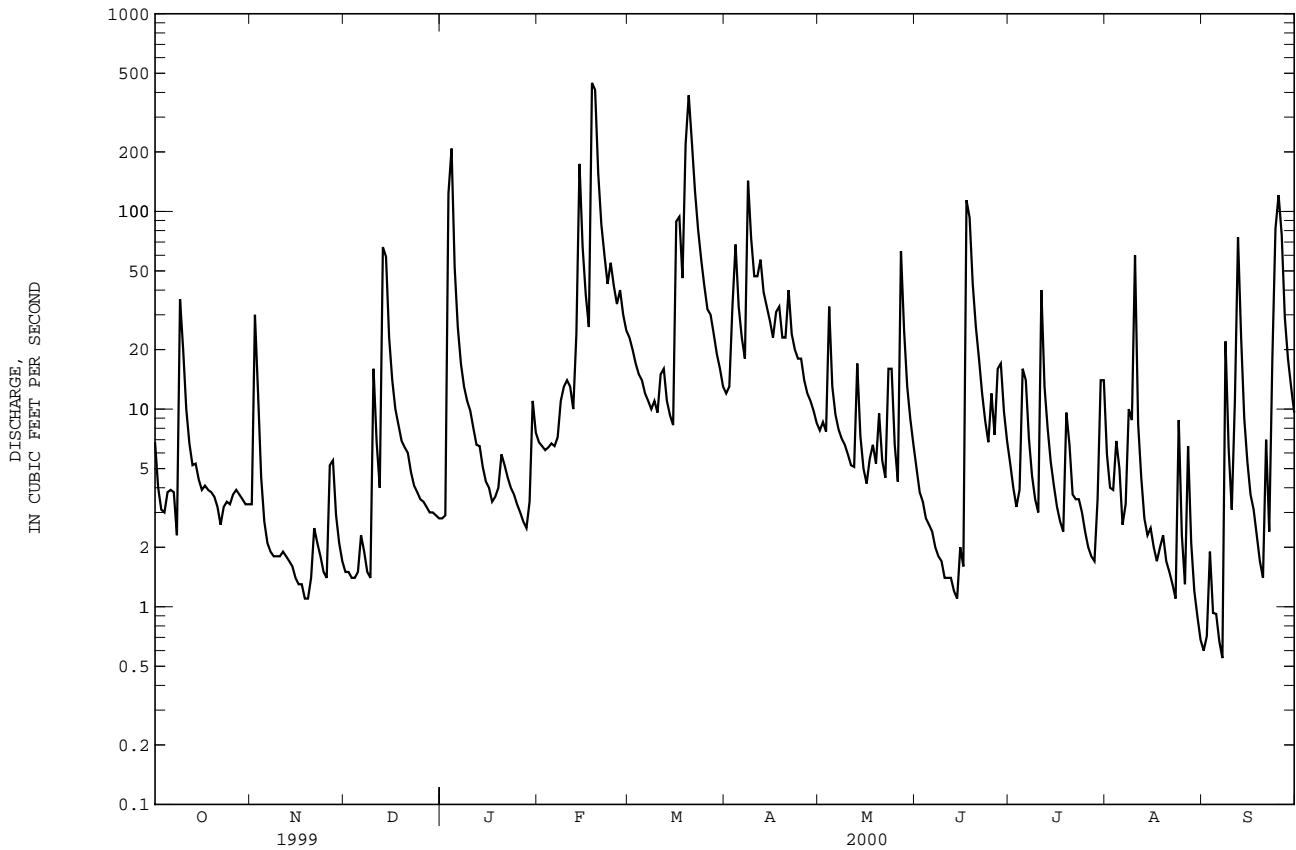
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2000, BY WATER YEAR (WY)

	MEAN	MAX	MIN	CFSM	IN.							
MEAN	8.37	20.6	49.7	50.5	64.8	68.9	43.7	32.2	20.3	15.8	11.3	9.40
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1950 - 2000	
ANNUAL TOTAL	7278.56		7367.35		32.7	
ANNUAL MEAN	19.9		20.1		62.1	
HIGHEST ANNUAL MEAN					1989	
LOWEST ANNUAL MEAN					6.75	
HIGHEST DAILY MEAN	290	Jan 9	447	Feb 18	1310	Feb 15 1989
LOWEST DAILY MEAN	.25	Aug 20	.55	Sep 7	.00	Aug 6 1951
ANNUAL SEVEN-DAY MINIMUM	.38	Sep 11	.90	Sep 1	.00	Aug 19 1951
INSTANTANEOUS PEAK FLOW			1300		2280	Feb 15 1989
INSTANTANEOUS PEAK STAGE			7.73		12.13	Sep 21 1979
INSTANTANEOUS LOW FLOW					.00	Aug 6 1951
ANNUAL RUNOFF (CFSM)	.94		.95		1.54	
ANNUAL RUNOFF (INCHES)	12.77		12.93		20.99	
10 PERCENT EXCEEDS	55		44		80	
50 PERCENT EXCEEDS	4.9		6.4		12	
90 PERCENT EXCEEDS	.97		1.7		1.4	

e Estimated



KENTUCKY RIVER BASIN

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 mi².

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.

COOPERATION.--Lexington Fayette Urban County Government.

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	2.0	.92	.70	e1.1	3.9	5.2	3.7	2.8	4.1	4.6	3.4	.81
2	1.5	29	.63	e1.1	3.6	4.6	6.2	3.0	4.2	3.9	4.2	3.0
3	1.3	5.7	.63	138	3.4	4.2	25	18	4.4	3.4	6.8	1.9
4	1.3	3.6	.72	84	3.4	3.9	20	12	4.8	4.6	3.8	.99
5	1.3	2.7	1.0	13	3.3	4.6	9.4	4.9	5.6	27	2.2	.79
6	1.4	2.1	1.6	8.5	3.2	3.3	7.2	3.8	5.7	15	1.6	.70
7	1.1	1.7	.93	7.9	3.4	2.9	6.0	3.3	5.7	6.7	2.8	.70
8	1.0	1.5	.68	7.1	3.8	2.7	81	2.8	6.1	5.2	7.2	35
9	62	1.3	.50	6.6	3.9	2.9	15	2.7	6.2	4.4	9.8	3.6
10	14	1.2	27	5.0	4.2	2.6	11	2.5	6.4	3.7	53	2.2
11	5.5	1.1	3.8	4.4	4.1	9.4	20	2.3	6.3	31	4.9	10
12	3.9	1.0	13	4.6	3.7	4.3	12	2.2	6.1	6.5	3.6	46
13	3.0	.94	44	4.4	48	3.4	8.8	12	5.9	5.2	2.6	8.5
14	2.4	.81	21	3.7	37	3.0	7.5	3.5	5.4	4.3	2.2	4.1
15	2.0	.73	7.9	3.5	12	2.7	6.6	2.9	4.7	3.3	1.7	3.1
16	1.6	.70	5.6	3.4	8.1	54	5.9	2.7	2.8	2.5	1.3	2.2
17	1.4	.64	4.4	3.2	6.4	17	13	3.9	242	2.1	1.1	1.6
18	1.3	.64	3.5	e3.1	323	11	7.9	3.4	33	1.9	1.8	1.3
19	1.2	.64	2.8	e3.05	95	113	6.2	3.0	14	9.7	1.3	.90
20	1.1	1.4	3.1	e3.00	28	128	22	3.1	11	3.4	.88	2.7
21	1.1	1.1	2.5	e2.95	16	54	11	2.6	7.8	2.4	.69	5.8
22	1.0	.78	2.0	e2.90	11	27	7.1	2.5	6.4	2.0	.59	1.5
23	.97	.66	1.8	e2.85	8.6	17	6.0	14	5.8	1.7	.77	8.7
24	.93	.77	e1.7	e2.80	18	12	5.9	5.4	5.4	1.5	12	53
25	.91	.89	e1.6	e2.80	8.4	9.5	5.3	4.1	11	1.5	2.0	82
26	.86	5.2	e1.5	e2.80	6.7	7.6	4.4	3.9	6.7	1.3	1.4	27
27	.87	2.3	e1.4	e2.80	12	8.2	4.0	75	19	1.2	8.5	9.8
28	.89	1.5	e1.35	e2.80	6.6	6.2	3.6	7.5	9.6	1.6	1.9	6.1
29	.91	1.1	e1.27	e2.80	5.7	5.2	3.3	5.2	7.0	3.3	1.3	4.6
30	.90	.82	e1.2	4.8	---	4.6	3.0	4.4	5.4	10	.88	3.7
31	.91	---	e1.18	4.3	---	4.1	---	4.1	---	7.7	.73	---
TOTAL	120.55	73.44	160.99	343.25	694.4	538.1	348.0	223.5	468.5	182.6	146.94	332.29
MEAN	3.89	2.45	5.19	11.1	23.9	17.4	11.6	7.21	15.6	5.89	4.74	11.1
MAX	62	29	44	138	323	128	81	75	242	31	53	82
MIN	.86	.64	.50	1.1	3.2	2.6	3.0	2.2	2.8	1.2	.59	.70
CFSM	.41	.26	.54	1.16	2.50	1.81	1.21	.75	1.63	.62	.50	1.16
IN.	.47	.29	.63	1.33	2.70	2.09	1.35	.87	1.82	.71	.57	1.29

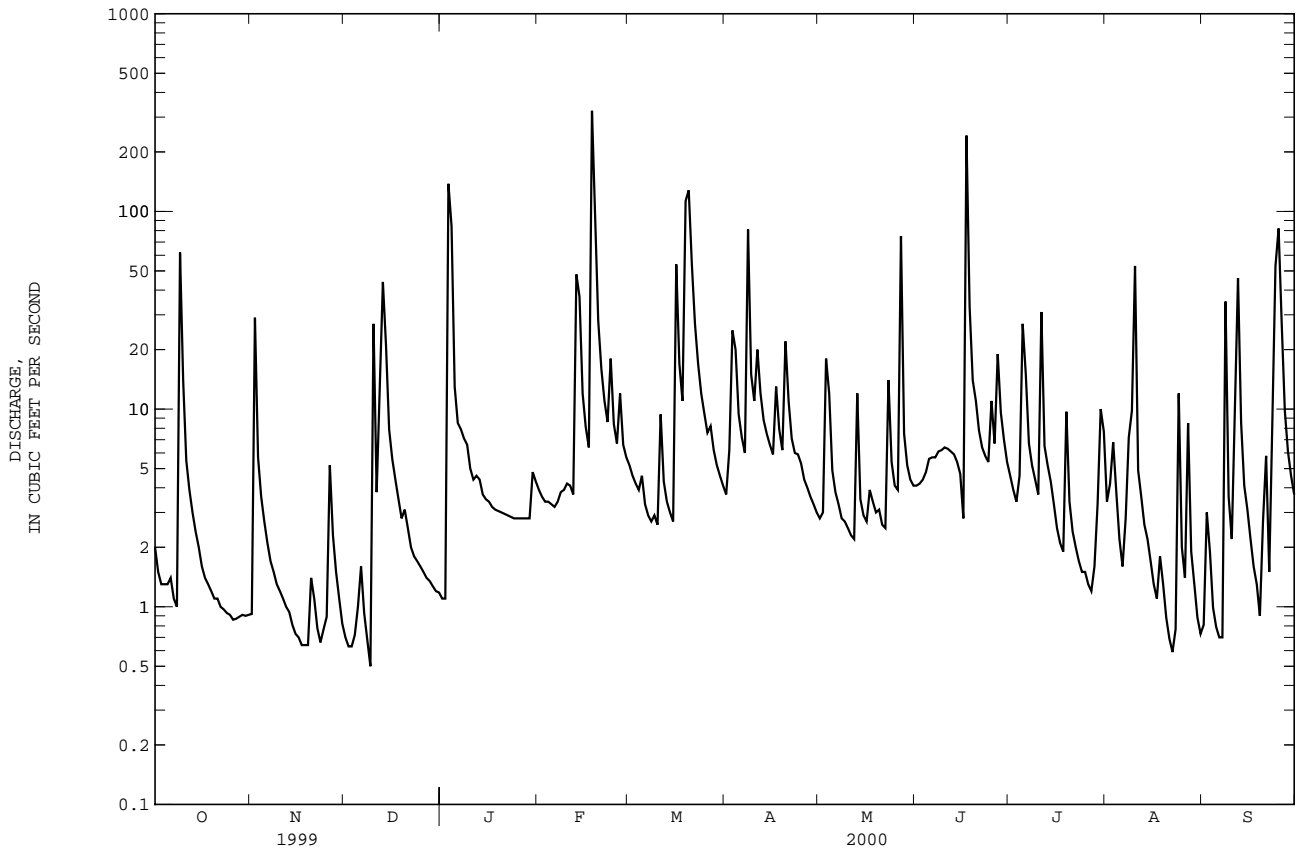
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2000, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999	2000
MEAN	4.29	4.91	8.95	25.3	22.7	20.1
MAX	4.72	7.83	12.6	37.7	28.1	28.0
(WY)	1999	1998	1998	1999	1998	1998
MIN	3.89	2.45	5.19	11.1	15.9	14.9
(WY)	2000	2000	2000	2000	1999	1998

03289193 WOLF RUN AT OLD FRANKFORT PIKE AT LEXINGTON, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1995 - 2000	
ANNUAL TOTAL	3805.03		3632.56		14.2	
ANNUAL MEAN	10.4		9.93		21.6	
HIGHEST ANNUAL MEAN					9.93	
LOWEST ANNUAL MEAN					2000	
HIGHEST DAILY MEAN	279	Jan 9	323	Feb 18	717	Jul 20 1998
LOWEST DAILY MEAN	.40	Sep 12	.50	Dec 9	.34	Oct 13 1997
ANNUAL SEVEN-DAY MINIMUM	.49	Sep 6	.73	Nov 13	.42	Oct 7 1997
INSTANTANEOUS PEAK FLOW			1750	Jun 17	3120	Jun 29 1998
INSTANTANEOUS PEAK STAGE			5.98	Jun 17	7.97	Jun 29 1998
INSTANTANEOUS LOW FLOW			.46	Dec 9	.45	Dec 9 1999
ANNUAL RUNOFF (CFSM)	1.09		1.04		1.48	
ANNUAL RUNOFF (INCHES)	14.79		14.12		20.14	
10 PERCENT EXCEEDS	21		17		26	
50 PERCENT EXCEEDS	3.0		3.7		4.9	
90 PERCENT EXCEEDS	.73		.93		.92	

e Estimated



KENTUCKY RIVER BASIN

03289200 TOWN BRANCH AT YARNALLTON ROAD AT YARNALLTON, 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, and at mile 86.0.

DRAINAGE AREA.--30.0 mi².

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.

COOPERATION.--Lexington Fayette Urban County Government.

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	28	22	27	22	35	59	44	43	39	37	44	32
2	26	114	27	22	33	54	53	42	38	33	40	46
3	24	54	26	239	32	51	e145	45	36	33	76	35
4	27	41	25	288	31	48	153	105	35	37	41	31
5	24	35	27	106	31	48	93	50	40	129	35	31
6	27	31	30	73	30	47	77	43	39	119	32	30
7	24	28	27	58	34	46	67	39	39	61	36	29
8	24	29	25	48	35	45	268	39	41	47	60	132
9	e150	27	25	46	36	47	142	37	41	40	50	52
10	e90	30	100	42	37	44	110	35	39	39	188	39
11	49	28	44	39	37	70	126	34	37	164	60	66
12	40	27	39	37	33	49	111	33	38	65	47	167
13	34	24	172	36	94	46	87	71	34	54	39	78
14	31	24	118	33	235	45	77	36	33	46	39	56
15	28	25	68	30	114	44	68	34	35	39	35	46
16	26	25	52	29	83	181	61	33	32	35	34	37
17	24	24	46	30	67	135	91	37	367	35	33	33
18	25	23	37	31	728	89	77	35	165	34	38	33
19	24	24	32	33	528	282	65	33	92	66	32	32
20	24	28	36	36	242	433	93	32	71	42	30	31
21	24	24	33	34	162	291	100	30	58	37	31	56
22	24	26	31	31	122	197	74	31	50	33	31	36
23	22	27	29	30	94	143	64	69	42	29	32	50
24	21	28	26	e29	119	108	64	44	38	30	74	213
25	21	25	28	e29	85	87	60	37	56	29	39	279
26	24	49	24	e28	71	73	54	34	47	29	33	e165
27	22	33	26	e28	89	71	50	150	98	29	50	e100
28	23	28	25	e28	68	59	48	60	71	32	36	73
29	23	29	25	43	62	56	43	46	52	39	33	58
30	21	28	24	40	---	53	40	43	43	62	31	48
31	20	---	24	37	---	48	---	40	---	67	30	---
TOTAL	994	960	1278	1635	3367	3049	2605	1440	1846	1571	1409	2114
MEAN	32.1	32.0	41.2	52.7	116	98.4	86.8	46.5	61.5	50.7	45.5	70.5
MAX	150	114	172	288	728	433	268	150	367	164	188	279
MIN	20	22	24	22	30	44	40	30	32	29	30	29
CFSM	.08	.08	.10	.13	.29	.24	.22	.12	.15	.13	.11	.17
IN.	.09	.09	.12	.15	.31	.28	.24	.13	.17	.15	.13	.20

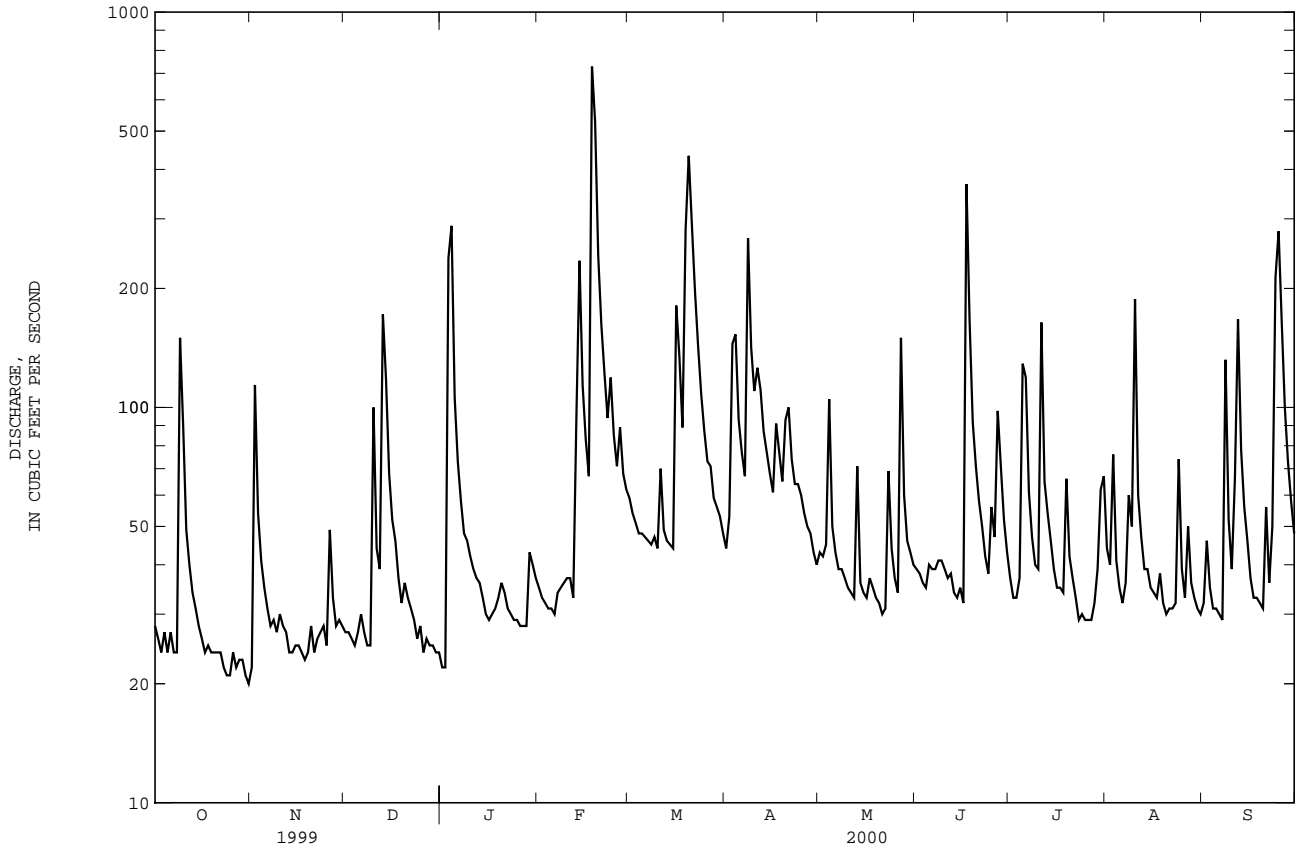
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

	1998	1999	2000	1998	1999	2000	1998	1999	2000	1998	1999	2000
MEAN	35.4	33.5	49.4	94.3	117	101	87.9	94.6	141	100	43.7	48.7
MAX	37.8	35.9	61.0	117	136	119	127	174	284	199	52.4	70.5
(WY)	1999	1998	1998	1998	1998	1999	1998	1998	1998	1998	1998	2000
MIN	32.1	32.0	41.2	52.7	97.6	84.9	49.6	46.5	61.5	50.7	33.4	24.9
(WY)	2000	2000	2000	2000	1999	1998	1999	2000	2000	2000	1999	1999

03289200 TOWN BRANCH AT YARNALLTON ROAD AT YARNALLTON, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	22290		22268		78.6	
ANNUAL MEAN	61.1		60.8		113	
HIGHEST ANNUAL MEAN					60.8	
LOWEST ANNUAL MEAN					1960	
HIGHEST DAILY MEAN	474	Jan 9	728	Feb 18	1960	Jul 20 1998
LOWEST DAILY MEAN	19	Sep 19	20	Oct 31	17	Nov 29 1997
ANNUAL SEVEN-DAY MINIMUM	22	Sep 13	22	Oct 25	22	Sep 13 1999
INSTANTANEOUS PEAK FLOW			2590	Feb 18	6750	Jun 29 1998
INSTANTANEOUS PEAK STAGE			6.29	Feb 18	9.12	Jun 29 1998
ANNUAL RUNOFF (CFSM)	.15		.15		.19	
ANNUAL RUNOFF (INCHES)	2.06		2.06		2.65	
10 PERCENT EXCEEDS	117		115		153	
50 PERCENT EXCEEDS	48		39		51	
90 PERCENT EXCEEDS	24		25		25	

e Estimated



KENTUCKY RIVER BASIN

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 mi², of which about 21 mi² 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. 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 19	0545	*3,290	15.85	Mar 20	0815	1,500	10.57

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

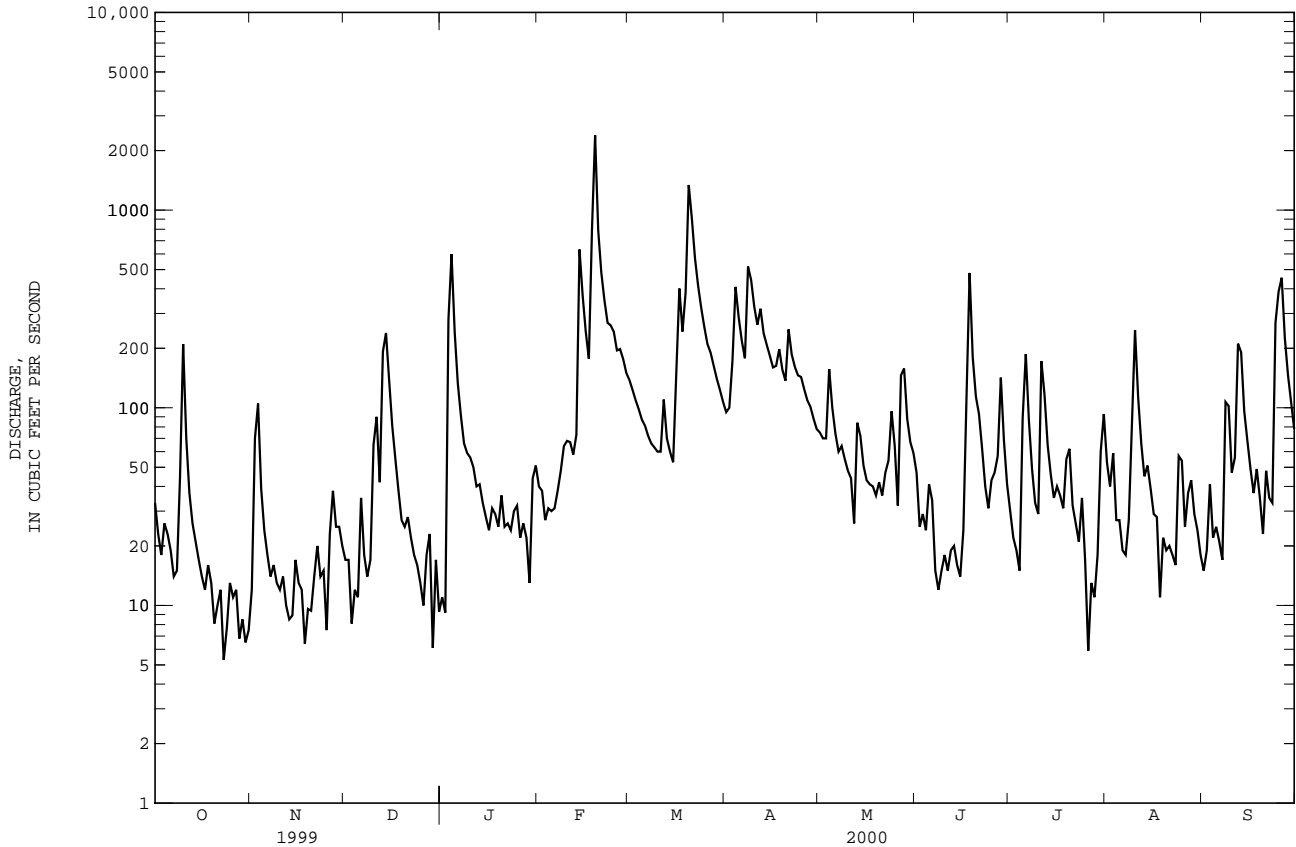
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	12	17	11	40	138	95	75	47	30	53	15
2	23	70	17	9.2	38	123	100	70	25	22	40	19
3	18	105	8.1	279	27	109	172	70	29	19	59	41
4	26	39	12	599	31	98	409	157	24	15	27	22
5	23	24	11	242	30	87	287	100	41	89	27	25
6	19	18	35	133	31	81	218	74	34	187	19	21
7	14	14	18	91	38	72	178	60	15	86	18	17
8	15	16	14	66	48	66	518	64	12	49	27	107
9	45	13	17	59	64	63	442	55	15	33	82	102
10	210	12	65	56	68	60	324	48	18	29	247	47
11	70	14	90	50	67	60	263	44	15	172	113	56
12	37	10	42	40	58	110	317	26	19	116	66	211
13	26	8.5	192	41	73	70	238	84	20	65	45	191
14	21	8.9	239	33	632	60	208	72	16	46	51	96
15	17	17	138	28	371	53	183	51	14	35	39	68
16	14	13	81	24	243	148	160	43	24	40	29	49
17	12	12	55	31	177	401	163	41	112	36	28	37
18	16	6.4	38	29	799	243	198	40	481	31	11	49
19	13	9.6	27	25	2390	383	156	36	180	55	22	35
20	8.1	9.4	25	36	788	1340	137	42	114	62	19	23
21	10	14	28	25	481	908	249	36	93	32	20	48
22	12	20	22	26	349	572	186	47	62	26	18	35
23	5.3	14	18	24	269	415	161	54	40	21	16	33
24	7.7	15	16	30	261	320	146	96	31	35	57	269
25	13	7.5	13	32	242	256	143	64	43	17	54	387
26	11	23	10	22	195	210	124	32	47	5.9	25	455
27	12	38	18	26	198	190	109	146	57	13	37	225
28	6.8	25	23	22	176	163	101	158	142	11	43	147
29	8.5	25	6.1	13	150	140	88	88	68	18	29	107
30	6.5	20	17	44	---	123	78	67	41	60	24	78
31	7.5	---	9.3	51	---	107	---	59	---	93	18	---
TOTAL	760.4	633.3	1321.5	2197.2	8334	7169	6151	2099	1879	1548.9	1363	3015
MEAN	24.5	21.1	42.6	70.9	287	231	205	67.7	62.6	50.0	44.0	100
MAX	210	105	239	599	2390	1340	518	158	481	187	247	455
MIN	5.3	6.4	6.1	9.2	27	53	78	26	12	5.9	11	15
CFSM	.23	.20	.41	.68	2.74	2.20	1.95	.64	.60	.48	.42	.96
IN.	.27	.22	.47	.78	2.95	2.54	2.18	.74	.67	.55	.48	1.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2000, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	61.9	125	221	241	291	310	184	207	175	102	65.8	56.4							
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							

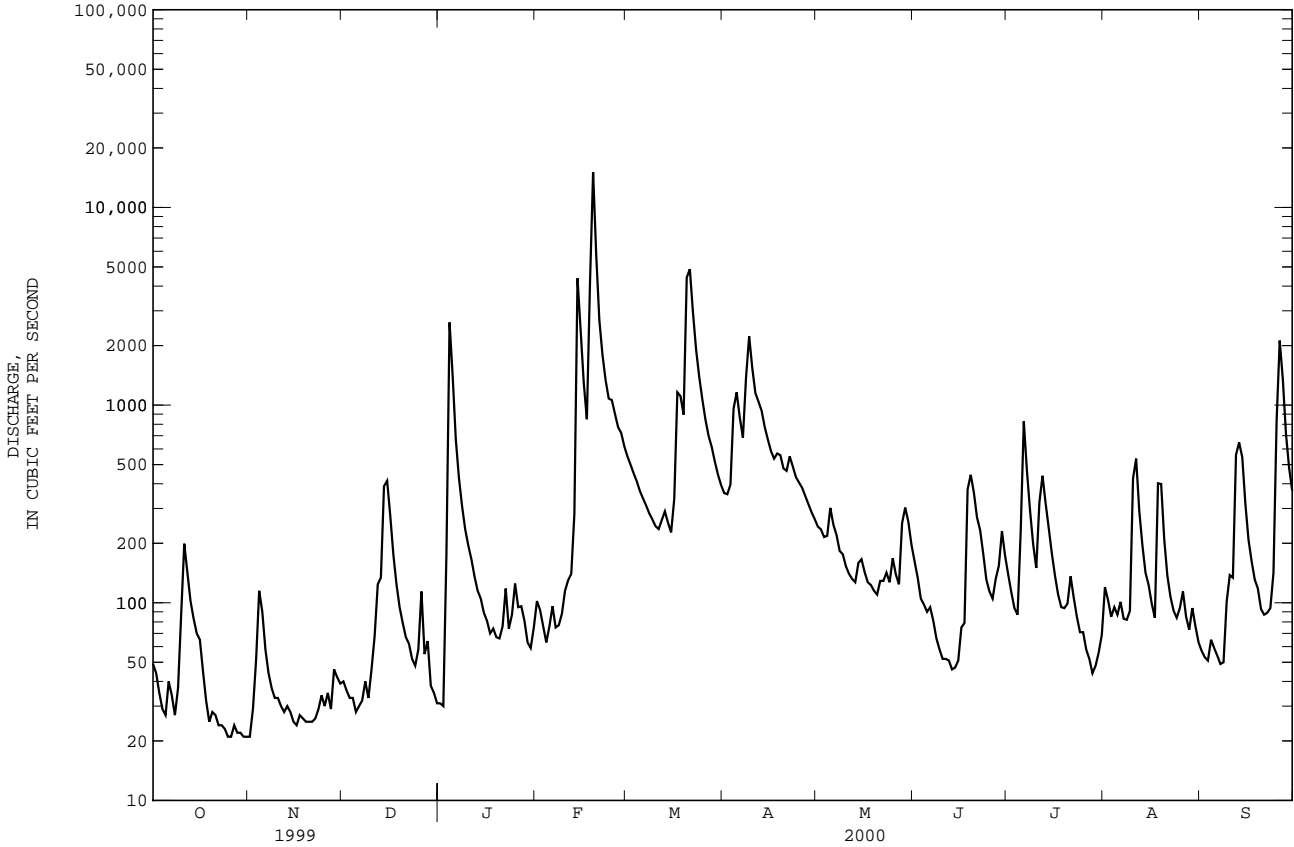
03289300 SOUTH ELKHORN CREEK NEAR MIDWAY, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1982 - 2000	
ANNUAL TOTAL	35251.7		36471.3			
ANNUAL MEAN	96.6		99.6		170	
HIGHEST ANNUAL MEAN					276 1997	
LOWEST ANNUAL MEAN					99.6 2000	
HIGHEST DAILY MEAN	1480	Jan 9	2390	Feb 19	10700	Mar 2 1997
LOWEST DAILY MEAN	4.6	Aug 21	5.3	Oct 23	3.1	Oct 8 1994
ANNUAL SEVEN-DAY MINIMUM	9.2	Oct 23	9.2	Oct 23	9.2	Oct 23 1999
INSTANTANEOUS PEAK FLOW			3290	Feb 19	12300	Mar 2 1997
INSTANTANEOUS PEAK STAGE			15.85	Feb 19	26.37	Mar 2 1997
INSTANTANEOUS LOW FLOW					.00	Oct 7 1992
ANNUAL RUNOFF (CFSM)	.92		.95		1.61	
ANNUAL RUNOFF (INCHES)	12.49		12.92		21.94	
10 PERCENT EXCEEDS	259		240		353	
50 PERCENT EXCEEDS	35		42		88	
90 PERCENT EXCEEDS	9.4		13		29	



03289500 ELKHORN CREEK NEAR FRANKFORT, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1916 - 2000	
ANNUAL TOTAL	131755		139307		640	
ANNUAL MEAN	361		381		1103	
HIGHEST ANNUAL MEAN					126	
LOWEST ANNUAL MEAN					25000	
HIGHEST DAILY MEAN	6230	Jan 9	15100	Feb 19	Feb 16 1989	
LOWEST DAILY MEAN	16	Aug 16	21	Oct 25	.00 Jan 7 1940	
ANNUAL SEVEN-DAY MINIMUM	20	Aug 16	22	Oct 25	.00 Jan 7 1940	
INSTANTANEOUS PEAK FLOW			16200		Feb 19 35900	
INSTANTANEOUS PEAK STAGE			12.92		Feb 19 17.96	
ANNUAL RUNOFF (CFSM)	.90		.95		1.59	
ANNUAL RUNOFF (INCHES)	12.18		12.88		21.61	
10 PERCENT EXCEEDS	1110		834		1610	
50 PERCENT EXCEEDS	73		119		203	
90 PERCENT EXCEEDS	24		31		33	



KENTUCKY RIVER BASIN

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 mi², of which about 196 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1925 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.

COOPERATION.--Auxiliary gage readings furnished by U.S. Army Corps of Engineers.

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	211	214	1880	660	2220	6810	3920	7380	3280	5420	1670	1150
2	190	292	1520	701	3060	6520	3600	6140	2490	4490	2440	898
3	187	358	1190	6260	4170	6290	7150	5100	1930	3160	2150	750
4	185	410	975	14900	4220	5280	9520	4580	1570	2320	2100	685
5	193	695	822	11900	3900	4110	11600	4670	1290	2230	2720	686
6	174	982	708	8540	3570	3730	27200	6200	1010	3510	2550	928
7	170	980	647	6060	3370	3490	28500	7510	904	5590	2300	1180
8	179	881	598	4370	3310	3230	22500	6190	816	10200	1940	1160
9	287	775	559	3500	3400	2950	18500	4620	736	7790	1840	976
10	429	669	789	3000	3530	2760	16600	3630	656	4900	5670	897
11	496	562	885	2690	3690	2680	13400	3080	583	6800	5020	1210
12	846	497	1030	2770	3760	2780	11600	2690	546	3410	4850	2230
13	1020	461	2120	3020	5790	3360	13300	2410	476	2760	4460	1730
14	963	413	4570	3070	20300	7440	12800	2130	439	2790	3480	1530
15	955	372	5130	3030	21900	9770	11900	1920	410	3420	2550	1160
16	892	349	5490	2740	25300	11800	9660	1790	470	6360	1850	738
17	776	336	5330	2480	20000	12300	7700	1630	495	13300	1400	e600
18	656	325	4210	2340	21900	12500	8020	1490	890	11800	3040	e529
19	551	310	3080	2180	37800	12200	7390	1320	1740	7080	1960	e464
20	485	307	2440	2170	39200	28700	7410	1260	1770	4700	1350	466
21	427	309	2070	2070	29600	28300	7770	1130	2590	3380	1150	450
22	370	311	1820	2160	22900	20400	8290	1140	3260	2570	981	417
23	335	311	1590	2240	16100	15600	8880	1290	6110	2010	840	455
24	310	314	1440	2110	13000	12500	8840	1690	9580	1660	779	666
25	300	324	1310	2220	11500	10500	8600	2220	6740	1350	766	3850
26	282	380	1090	2380	9790	9060	8500	2160	4160	1130	1690	5390
27	259	403	941	2470	8840	8100	12300	2180	3290	960	3630	3800
28	241	430	854	2390	8120	7380	14100	2990	2980	853	3440	3040
29	227	699	800	2310	7380	6800	11400	5310	2720	819	2580	2700
30	224	1650	740	2050	---	6270	8950	6240	4120	833	1900	2300
31	218	---	690	1860	---	5500	---	4600	---	1060	1440	---
TOTAL	13038	15319	57318	110641	361620	279110	349900	106690	68051	128655	74536	43035
MEAN	421	511	1849	3569	12470	9004	11660	3442	2268	4150	2404	1434
MAX	1020	1650	5490	14900	39200	28700	28500	7510	9580	13300	5670	5390
MIN	170	214	559	660	2220	2680	3600	1130	410	819	766	417

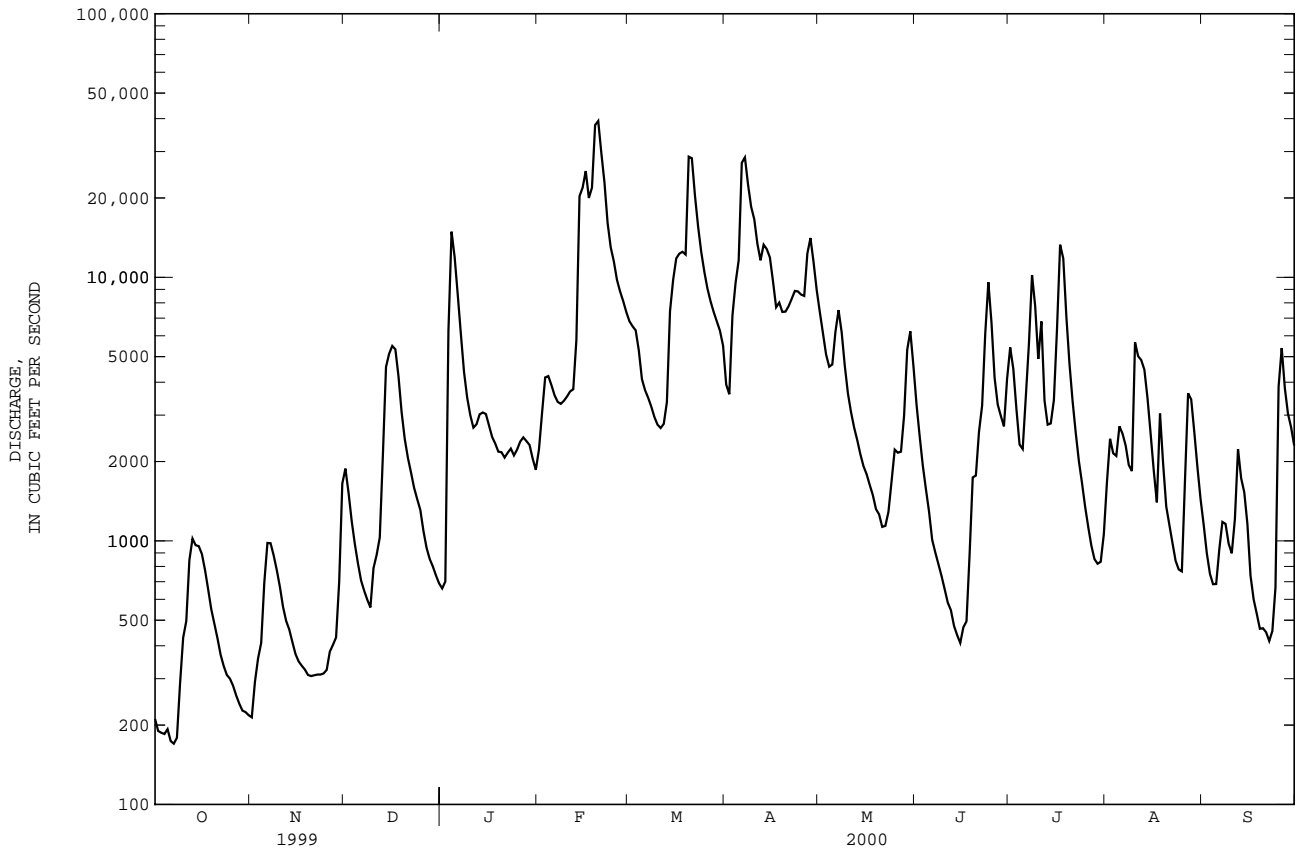
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2000, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)
MEAN	2269	4852	10730	13430	15010	18730	13960	10160	5595	2776	2338	2127
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1961 - 2000	
ANNUAL TOTAL	1839848		1607913		8469	
ANNUAL MEAN	5041		4393		14030	
HIGHEST ANNUAL MEAN					1979	
LOWEST ANNUAL MEAN					3891	
HIGHEST DAILY MEAN	53800	Jan 10	39200	Feb 20	121000	Dec 11 1978
LOWEST DAILY MEAN	112	Sep 16	170	Oct 7	112	Sep 16 1999
ANNUAL SEVEN-DAY MINIMUM	125	Sep 10	183	Oct 2	125	Sep 10 1999
INSTANTANEOUS PEAK FLOW			36500		Feb 19	123000
INSTANTANEOUS PEAK STAGE			34.95		Feb 19	56.85
10 PERCENT EXCEEDS	16900		11600		21600	
50 PERCENT EXCEEDS	975		2320		3800	
90 PERCENT EXCEEDS	192		410		614	

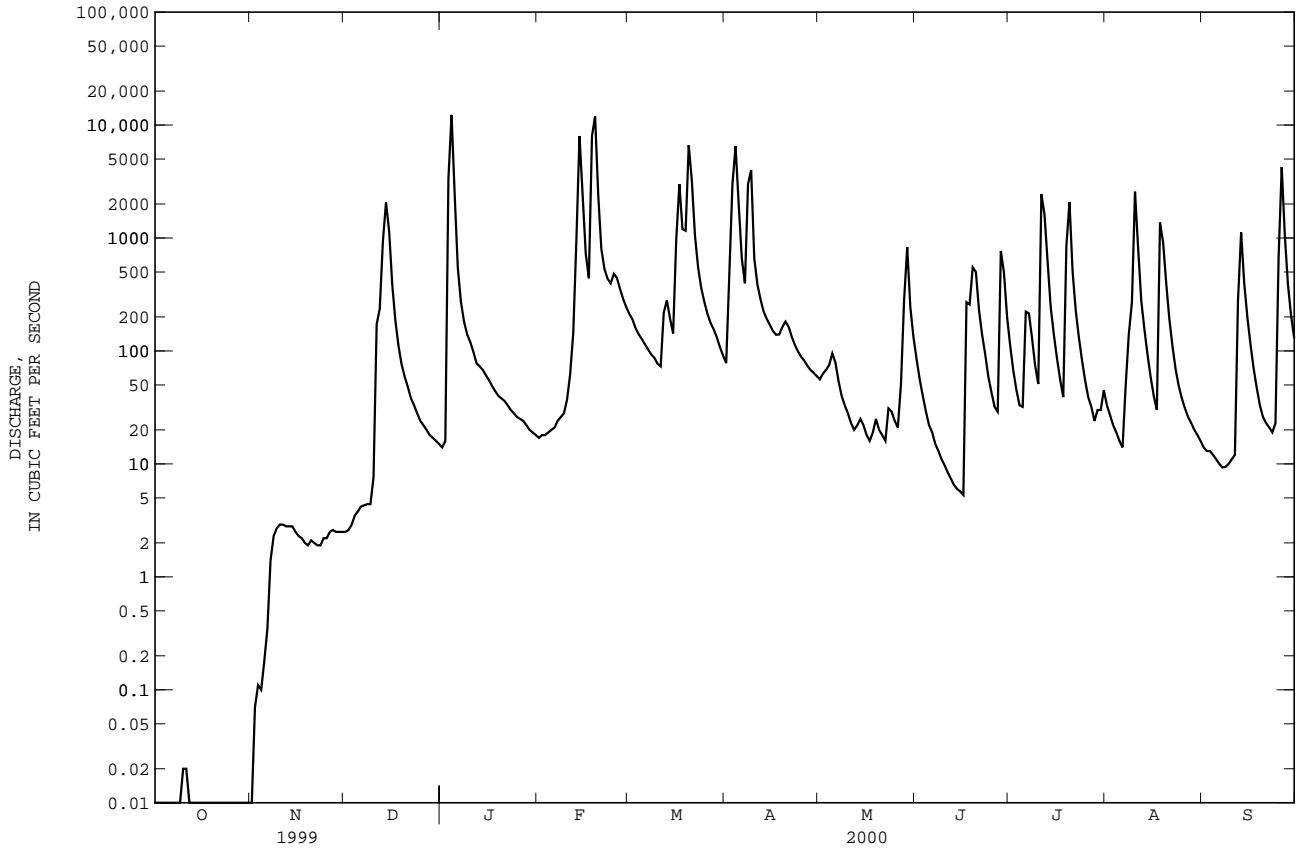
e Estimated



03291500 EAGLE CREEK AT GLENCOE, KY--Continued

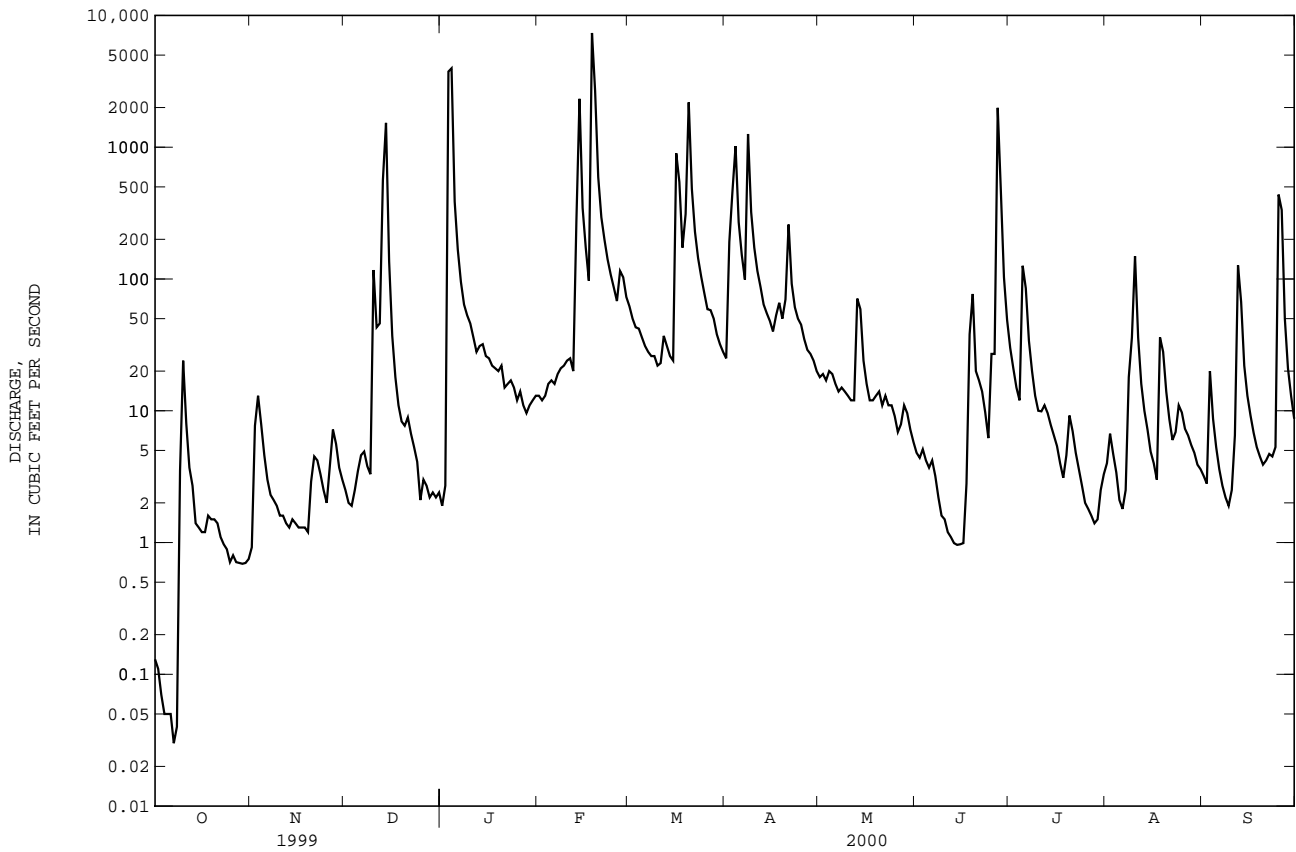
SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1916 - 2000	
ANNUAL TOTAL	110006.64		144532.18		573	
ANNUAL MEAN	301		395		1059	
HIGHEST ANNUAL MEAN					1973	
LOWEST ANNUAL MEAN					1954	
HIGHEST DAILY MEAN	9770	Jan 9	12300	Jan 4	39300	Mar 10 1964
LOWEST DAILY MEAN	.00	Sep 12	.00	Oct 1	.00	Jul 15 1930
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 12	.00	Oct 1	.00	Jul 15 1930
INSTANTANEOUS PEAK FLOW			18900		58300	
INSTANTANEOUS PEAK STAGE			16.59		29.08	
ANNUAL RUNOFF (CFSM)	.69		.90		1.31	
ANNUAL RUNOFF (INCHES)	9.36		12.30		17.81	
10 PERCENT EXCEEDS	782		802		1290	
50 PERCENT EXCEEDS	17		44		96	
90 PERCENT EXCEEDS	.01		.30		1.2	

e Estimated



03292470 HARRODS CREEK AT HIGHWAY 329 NEAR GOSHEN, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL	18602.40		43675.98			
ANNUAL MEAN	51.0		119		119	
HIGHEST ANNUAL MEAN					119 2000	
LOWEST ANNUAL MEAN					119 2000	
HIGHEST DAILY MEAN	1530	Dec 14	7360	Feb 18	7360	Feb 18 2000
LOWEST DAILY MEAN	.00	Sep 2	.03	Oct 7	.00	Sep 2 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 2	.06	Oct 2	.00	Sep 2 1999
INSTANTANEOUS PEAK FLOW			16500		16500	
INSTANTANEOUS PEAK STAGE			14.76		14.76	
10 PERCENT EXCEEDS	125		146		147	
50 PERCENT EXCEEDS	7.9		12		13	
90 PERCENT EXCEEDS	.13		1.4		.51	



GOOSE CREEK BASIN

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 mi².

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

GAGE.--Water-stage recorder and crest-stage gage.

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

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 3	2125	700	4.90	Feb 18	1820	*1,220	*5.25

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	.22	.02	.41	1.0	2.0	7.1	3.6	2.7	2.1	1.9	2.0	e.52
2	.03	1.3	.33	9.1	1.8	5.8	12	2.7	1.9	1.8	1.3	e1.0
3	.03	.93	.39	159	2.0	5.3	11	2.6	1.7	1.6	1.0	e2.0
4	.03	.60	.46	123	2.2	5.1	15	3.1	1.6	1.4	.83	e1.0
5	.03	.41	.86	28	2.0	4.6	10	2.7	1.6	6.2	.70	e.62
6	.03	.33	.95	20	2.0	4.1	8.6	2.5	1.6	3.6	.73	e.30
7	.03	.26	.69	15	2.1	3.8	7.8	2.4	1.4	2.8	.72	e.25
8	.03	e.22	.54	12	2.1	3.6	25	2.4	1.3	1.9	3.3	e.45
9	20	e.19	.43	11	2.1	3.5	14	2.2	1.1	1.6	1.8	e.60
10	2.5	e.16	19	9.4	2.2	3.2	12	2.3	1.0	1.5	2.0	e.50
11	1.1	e.14	3.7	6.8	2.2	5.0	11	2.1	.84	1.4	1.2	3.6
12	.60	e.12	15	4.4	2.0	4.6	8.3	2.0	.73	1.4	.77	4.5
13	.46	e.11	36	4.1	27	3.5	6.8	7.4	.68	1.3	.60	2.4
14	.46	e.09	29	3.2	42	3.3	6.2	3.4	.66	1.1	.47	1.7
15	.39	e.08	9.3	3.1	22	3.1	5.8	2.6	.76	.81	.33	1.4
16	.31	e.07	5.6	2.9	17	33	5.2	2.1	1.3	.66	.26	1.2
17	.35	e.06	3.6	2.6	14	19	9.4	1.9	6.5	.57	.20	.99
18	.30	.08	2.8	3.0	362	14	7.5	1.8	8.8	.47	41	.83
19	e.23	.10	2.4	2.9	117	20	5.7	2.3	5.3	1.7	4.7	.75
20	e.18	1.3	2.4	3.0	38	38	5.2	2.0	3.2	.99	2.6	1.1
21	e.13	.80	2.2	2.6	26	23	4.8	1.8	5.2	.72	1.9	1.9
22	e.10	.58	1.8	2.4	21	17	4.4	2.0	3.1	.57	1.6	1.2
23	e.07	.43	1.7	2.3	17	14	3.9	5.9	2.3	.45	2.7	1.0
24	e.06	.33	1.6	2.2	14	12	4.0	4.2	1.9	.35	e3.5	3.9
25	.04	.34	1.5	2.1	12	10	3.9	2.6	5.1	.26	e2.6	29
26	.03	2.1	1.4	2.1	10	8.8	3.4	2.1	2.4	.24	e1.8	5.6
27	.03	1.3	1.3	2.0	15	9.1	3.2	6.1	8.6	.16	e2.3	2.3
28	.02	.85	1.3	2.0	9.8	7.4	3.1	9.3	4.8	.67	e1.1	1.6
29	.02	.59	1.2	2.0	8.3	5.5	2.9	4.8	3.1	1.8	e.82	1.2
30	.02	.44	1.2	2.0	---	4.4	2.8	3.1	2.3	1.4	e.63	1.0
31	.02	---	1.1	2.0	---	3.9	---	2.5	---	3.7	e.40	---
TOTAL	27.85	14.33	150.16	447.2	796.8	304.7	226.5	97.6	82.87	45.02	85.86	74.41
MEAN	.90	.48	4.84	14.4	27.5	9.83	7.55	3.15	2.76	1.45	2.77	2.48
MAX	20	2.1	36	159	362	38	25	9.3	8.8	6.2	41	29
MIN	.02	.02	.33	1.0	1.8	3.1	2.8	1.8	.66	.16	.20	.25
CFSM	.15	.08	.81	2.40	4.58	1.64	1.26	.52	.46	.24	.46	.41
IN.	.17	.09	.93	2.77	4.94	1.89	1.40	.61	.51	.28	.53	.46

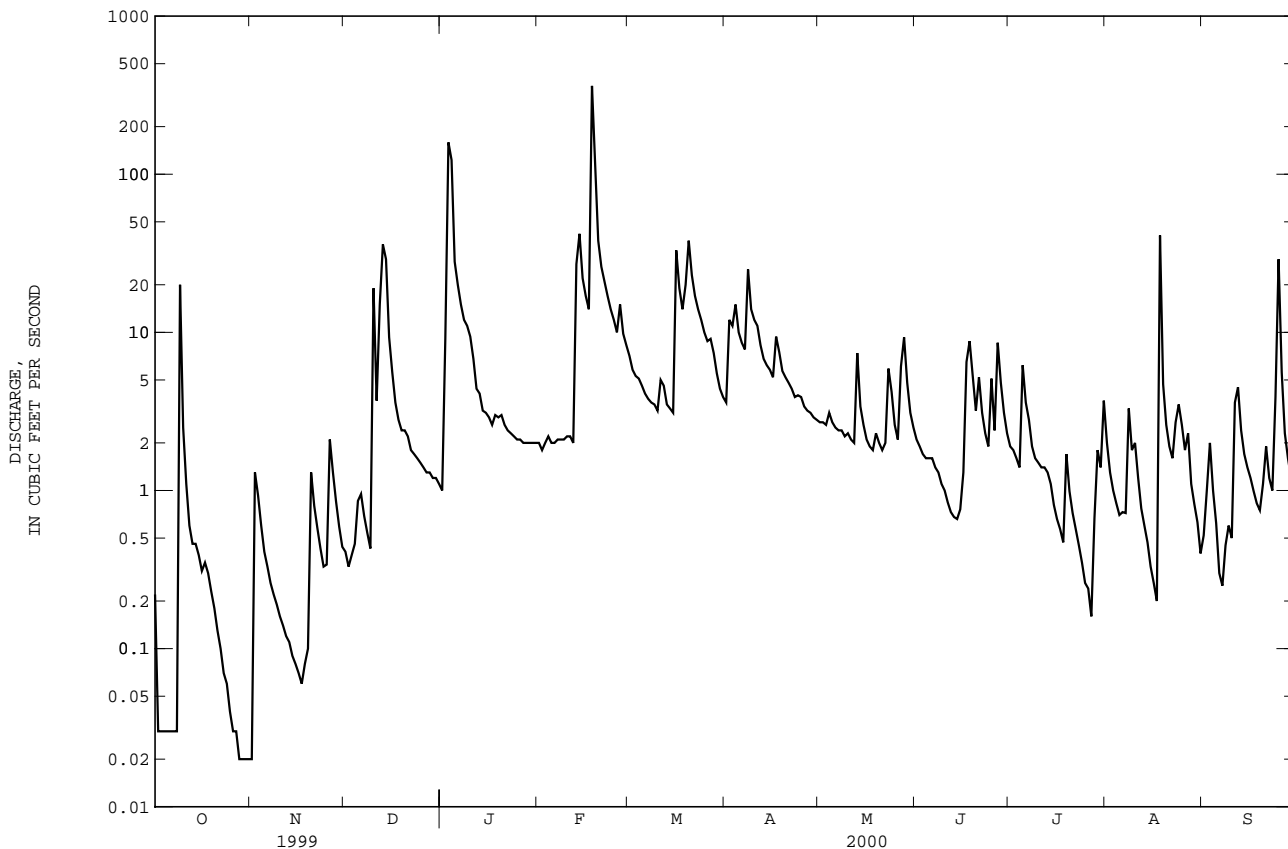
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

	1997	1998	1999	2000
MEAN	1.41	2.24	8.79	13.9
MAX	2.79	3.80	21.8	19.4
(WY)	1997	1997	1997	1999
MIN	.57	.48	3.74	9.58
(WY)	1998	2000	1999	1998

03292474 GOOSE CREEK AT OLD WESTPORT ROAD NEAR ST. MATTHEWS, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL TOTAL	1904.22		2353.30			
ANNUAL MEAN	5.22		6.43		8.57	
HIGHEST ANNUAL MEAN					14.8	
LOWEST ANNUAL MEAN					5.26	
HIGHEST DAILY MEAN	80	Jan 23	362	Feb 18	800	Mar 2 1997
LOWEST DAILY MEAN	.01	Aug 16	.02	Oct 28	.01	Aug 16 1999
ANNUAL SEVEN-DAY MINIMUM	.02	Sep 12	.02	Oct 26	.02	Sep 12 1999
INSTANTANEOUS PEAK FLOW			1220		3530	
INSTANTANEOUS PEAK STAGE			5.25		5.93	
ANNUAL RUNOFF (CFSM)	.87		1.07		1.43	
ANNUAL RUNOFF (INCHES)	11.81		14.59		19.41	
10 PERCENT EXCEEDS	15		13		17	
50 PERCENT EXCEEDS	1.8		2.0		3.2	
90 PERCENT EXCEEDS	.03		.24		.37	

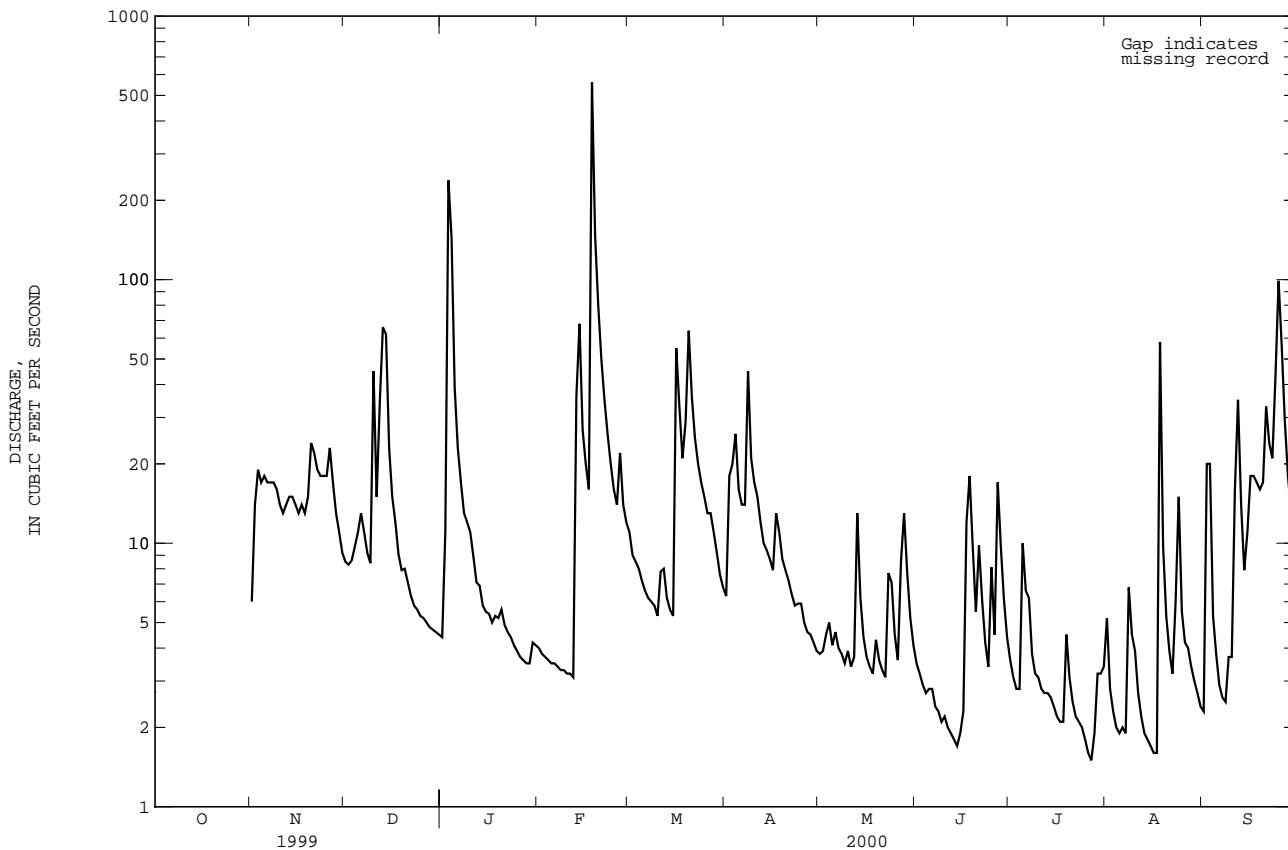
e Estimated



03292475 GOOSE CREEK AT HIGHWAY 42 AT GLENVIEW ACRES, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
HIGHEST DAILY MEAN	66	Dec 13	560	Feb 18	560	Feb 18 2000
LOWEST DAILY MEAN	4.5	Dec 31	1.5	Jul 27	1.5	Jul 27 2000
ANNUAL SEVEN-DAY MINIMUM	4.9	Dec 25	1.9	Jul 22	1.9	Jul 22 2000
INSTANTANEOUS PEAK FLOW			1710	Feb 18	1710	Feb 18 2000
INSTANTANEOUS PEAK STAGE			7.83	Feb 18	7.83	Feb 18 2000
10 PERCENT EXCEEDS	23		23		23	
50 PERCENT EXCEEDS	13		6.2		6.2	
90 PERCENT EXCEEDS	5.2		2.4		2.4	

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 mi².

PERIOD OF RECORD.--December 1998 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Records fair.

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 18	1920	*694	*7.54	Sep 25	1325	306	5.69
Aug 18	0505	256	5.49				

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	1.1	1.1	1.1	e11	e2.1	6.1	2.6	2.1	1.4	1.7	6.3	.31
2	.67	15	1.1	8.8	e1.9	4.7	19	2.2	1.3	1.3	1.4	1.2
3	.51	3.2	1.2	135	e1.7	4.1	22	2.1	1.3	1.1	.82	3.5
4	.36	1.9	1.5	79	e1.6	3.9	28	3.5	1.1	.97	.62	.73
5	.38	1.6	3.6	40	e1.5	3.2	17	2.2	1.4	25	.49	.45
6	.30	1.7	4.2	28	e1.5	2.7	13	2.3	1.4	6.5	.64	.29
7	.25	1.8	1.8	20	e1.4	2.4	10	2.2	1.1	5.1	.45	.23
8	.20	1.7	1.4	15	e1.4	2.2	49	2.3	.99	1.9	14	.52
9	46	1.6	1.1	10	e1.3	2.1	23	1.8	.94	1.5	4.3	.63
10	41	1.4	86	7.7	e1.3	1.9	17	3.1	.91	1.5	5.6	.52
11	13	1.3	63	6.0	e1.2	5.3	14	1.8	.81	1.6	1.6	14
12	2.7	1.2	80	4.8	e1.2	6.0	9.9	1.7	.79	1.9	1.1	20
13	2.0	1.3	110	6.6	25	3.2	7.1	20	.84	1.3	.86	4.6
14	1.8	1.6	e79	3.4	56	2.4	6.0	5.6	.90	.89	.70	1.8
15	1.7	1.6	e60	2.9	28	2.2	5.2	2.8	1.2	.80	.53	1.2
16	1.5	1.5	e48	2.6	18	56	4.5	2.1	2.2	.69	.32	.78
17	1.6	1.6	e37	2.3	13	34	12	1.9	18	.55	.14	.54
18	1.5	1.5	e30	2.8	322	20	11	1.6	32	.48	74	.46
19	1.6	1.6	e25	2.7	105	29	7.7	4.1	11	5.9	7.8	.35
20	1.7	12	e27	3.1	45	67	6.7	2.0	3.6	1.7	2.6	.28
21	1.6	2.3	e25	2.5	30	36	5.6	1.6	15	1.1	1.5	3.2
22	1.3	1.5	e22	e2.2	23	24	4.6	1.4	4.5	.76	1.0	.77
23	1.1	1.2	e21	e2.0	18	19	3.8	4.8	2.1	.56	6.8	.49
24	1.1	.99	e20	e1.9	15	15	4.2	2.8	1.5	.47	6.4	7.4
25	1.1	.83	e18	e1.8	11	10	4.1	1.7	15	.41	2.1	71
26	1.1	20	e16	e1.7	8.1	6.8	3.0	1.4	3.1	.43	1.5	33
27	1.0	4.2	e15	e1.6	18	8.3	2.7	9.3	29	.37	1.8	11
28	1.0	2.0	e14	e1.5	11	5.7	2.5	10	13	.50	.96	5.6
29	1.1	1.5	e13	e1.6	8.3	4.2	2.4	4.1	4.8	2.5	.70	3.1
30	1.1	1.1	e12	e2.1	---	3.5	2.2	2.1	2.4	1.3	.51	2.1
31	.99	---	e11	e2.0	---	3.0	---	1.6	---	6.3	.38	---
TOTAL	132.36	91.82	849.0	412.6	772.5	393.9	319.8	108.2	173.58	77.08	147.92	190.05
MEAN	4.27	3.06	27.4	13.3	26.6	12.7	10.7	3.49	5.79	2.49	4.77	6.34
MAX	46	20	110	135	322	67	49	20	32	25	74	71
MIN	.20	.83	1.1	1.5	1.2	1.9	2.2	1.4	.79	.37	.14	.23
CFSM	.74	.53	4.72	2.29	4.59	2.19	1.84	.60	1.00	.43	.82	1.09
IN.	.85	.59	5.45	2.65	4.95	2.53	2.05	.69	1.11	.49	.95	1.22

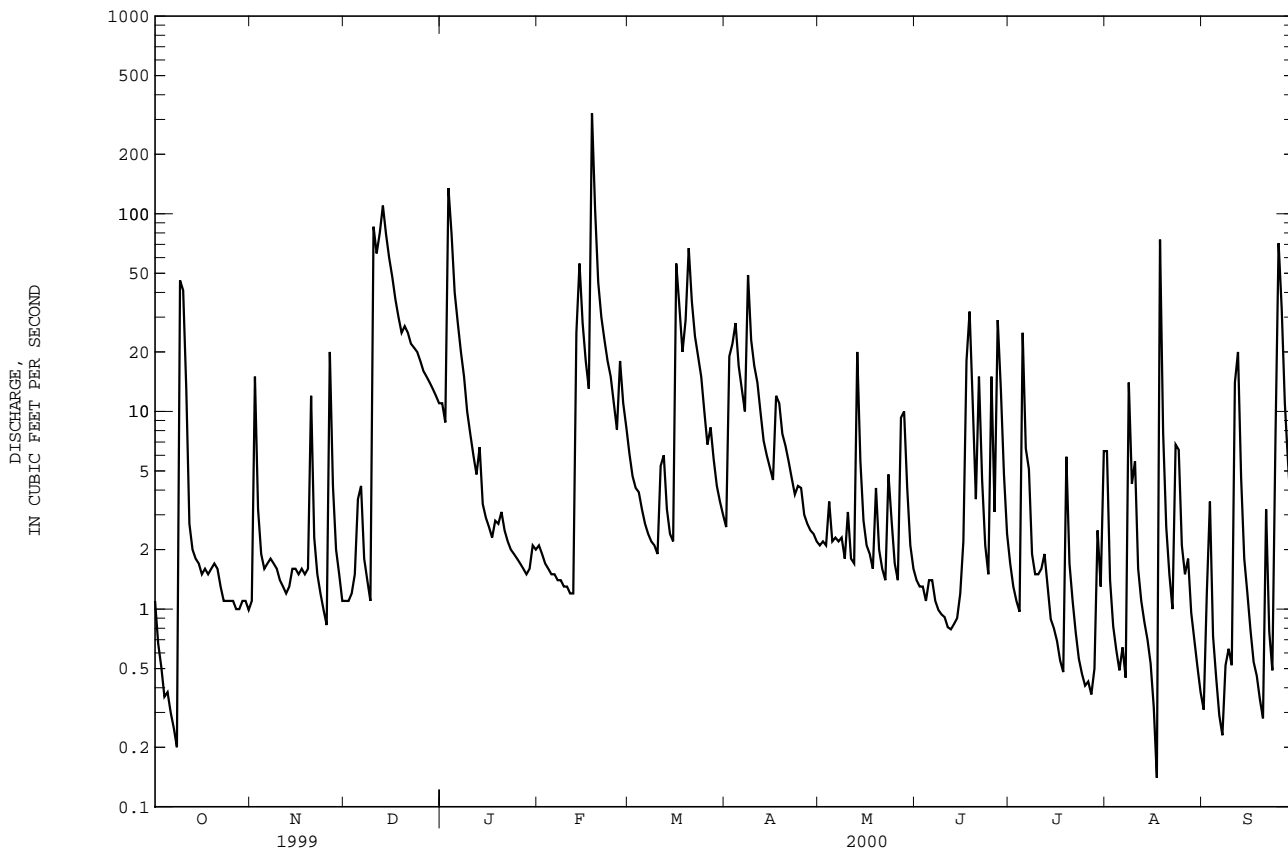
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000
MEAN	4.27	3.06	18.6	23.0	21.3	15.2	7.91	3.62	9.01	2.13	2.59	3.54
MAX	4.27	3.06	27.4	32.7	26.6	17.7	10.7	3.75	12.2	2.49	4.77	6.34
(WY)	2000	2000	2000	1999	2000	1999	2000	1999	1999	2000	2000	2000
MIN	4.27	3.06	9.84	13.3	15.7	12.7	5.15	3.49	5.79	1.77	.41	.75
(WY)	2000	2000	1999	2000	1999	2000	1999	2000	2000	1999	1999	1999

03292480 LITTLE GOOSE CREEK NEAR HARRODS CREEK, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL	3803.73		3668.81		10.0	
ANNUAL MEAN	10.4		10.0		10.0	
HIGHEST ANNUAL MEAN					10.0	
LOWEST ANNUAL MEAN					10.0	
HIGHEST DAILY MEAN	110	Dec 13	322	Feb 18	322	Feb 18 2000
LOWEST DAILY MEAN	.00	Aug 31	.14	Aug 17	.00	Aug 31 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 31	.38	Oct 2	.00	Aug 31 1999
INSTANTANEOUS PEAK FLOW			694	Feb 18	694	Feb 18 2000
INSTANTANEOUS PEAK STAGE			7.54	Feb 18	7.54	Feb 18 2000
ANNUAL RUNOFF (CFSM)	1.80		1.73		1.73	
ANNUAL RUNOFF (INCHES)	24.40		23.53		23.48	
10 PERCENT EXCEEDS	33		25		27	
50 PERCENT EXCEEDS	2.1		2.2		2.4	
90 PERCENT EXCEEDS	.18		.68		.45	

e Estimated



BEARGRASS CREEK BASIN

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, and at mile 6.5.

DRAINAGE AREA.--17.2 mi².

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 daily discharges, 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 3	2315	*2,580	*15.55	Aug 18	0410	1,060	10.37
Feb 18	2000	2,090	14.57				

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	.61	e.40	.97	e1.4	5.7	14	8.5	4.8	5.0	5.7	16	2.8
2	.67	24	1.2	108	5.1	12	71	5.8	6.9	4.8	4.9	51
3	1.1	3.6	1.3	755	4.1	13	51	6.5	7.7	5.9	3.2	30
4	2.2	1.4	1.7	518	e3.9	12	43	10	3.7	11	31	4.4
5	2.1	e1.2	6.0	60	e3.6	11	19	4.8	5.6	68	5.6	3.5
6	1.9	e1.0	4.8	29	e3.4	12	16	4.6	5.0	11	7.3	2.2
7	2.0	e.92	1.7	19	e3.1	12	22	4.7	3.2	6.5	3.1	1.9
8	4.3	e.83	1.4	14	e2.9	12	133	4.8	2.9	4.7	24	2.5
9	174	e.78	1.3	13	e2.8	13	27	4.7	2.4	3.9	9.2	9.8
10	20	e.70	111	11	e2.7	16	21	9.4	2.3	3.8	5.5	3.4
11	4.3	e.64	12	9.5	e2.6	34	18	4.0	2.3	3.8	3.1	112
12	2.5	e.58	106	8.4	e2.5	15	16	3.1	2.6	7.5	2.3	36
13	e2.0	e.53	197	8.3	150	9.3	12	57	2.3	47	2.2	10
14	e1.8	e.50	135	7.6	148	8.1	11	7.4	3.6	3.8	2.1	5.5
15	e1.5	e.47	21	7.4	30	7.6	9.7	4.5	9.6	3.0	1.9	3.5
16	e1.4	e.45	11	8.1	19	203	8.8	3.5	8.6	2.6	1.7	2.4
17	e1.2	e.43	7.5	7.8	18	52	16	3.7	71	2.6	1.9	2.0
18	e1.0	e.40	5.5	13	1060	27	9.9	3.3	67	2.1	228	2.0
19	e.94	e.37	4.5	8.0	335	66	7.7	25	35	29	11	1.5
20	e.86	18	6.4	12	92	143	7.2	6.0	12	5.2	5.7	6.1
21	e.80	3.6	4.6	7.7	47	44	7.8	3.5	25	3.5	4.0	12
22	e.72	1.5	3.1	7.3	31	30	9.2	3.3	11	3.0	3.3	2.5
23	e.66	1.5	2.6	7.8	22	23	7.9	51	6.9	2.7	18	3.1
24	e.62	1.5	e2.4	7.1	20	19	10	14	5.6	2.1	29	51
25	e.57	2.9	e2.2	6.2	17	16	8.0	6.0	22	2.3	6.9	183
26	e.55	26	e2.1	5.2	15	14	5.6	4.5	12	2.2	4.7	31
27	e.52	3.6	e1.9	4.2	56	20	5.6	21	68	2.5	5.8	11
28	e.47	1.6	e1.8	3.8	19	13	5.4	56	21	11	3.8	7.1
29	e.44	1.1	e1.7	5.0	15	11	5.4	9.2	11	38	2.8	5.3
30	e.42	1.3	e1.6	7.8	---	9.2	4.7	6.4	7.3	8.1	2.4	3.7
31	e.41	---	e1.5	6.7	---	8.3	---	5.3	---	7.0	2.4	---
TOTAL	232.56	101.80	662.77	1687.3	2136.4	899.5	597.4	357.8	448.5	314.3	452.8	602.2
MEAN	7.50	3.39	21.4	54.4	73.7	29.0	19.9	11.5	14.9	10.1	14.6	20.1
MAX	174	26	197	755	1060	203	133	57	71	68	228	183
MIN	.41	.37	.97	1.4	2.5	7.6	4.7	3.1	2.3	2.1	1.7	1.5
CFSM	.44	.20	1.24	3.16	4.28	1.69	1.16	.67	.87	.59	.85	1.17
IN.	.50	.22	1.43	3.65	4.62	1.95	1.29	.77	.97	.68	.98	1.30

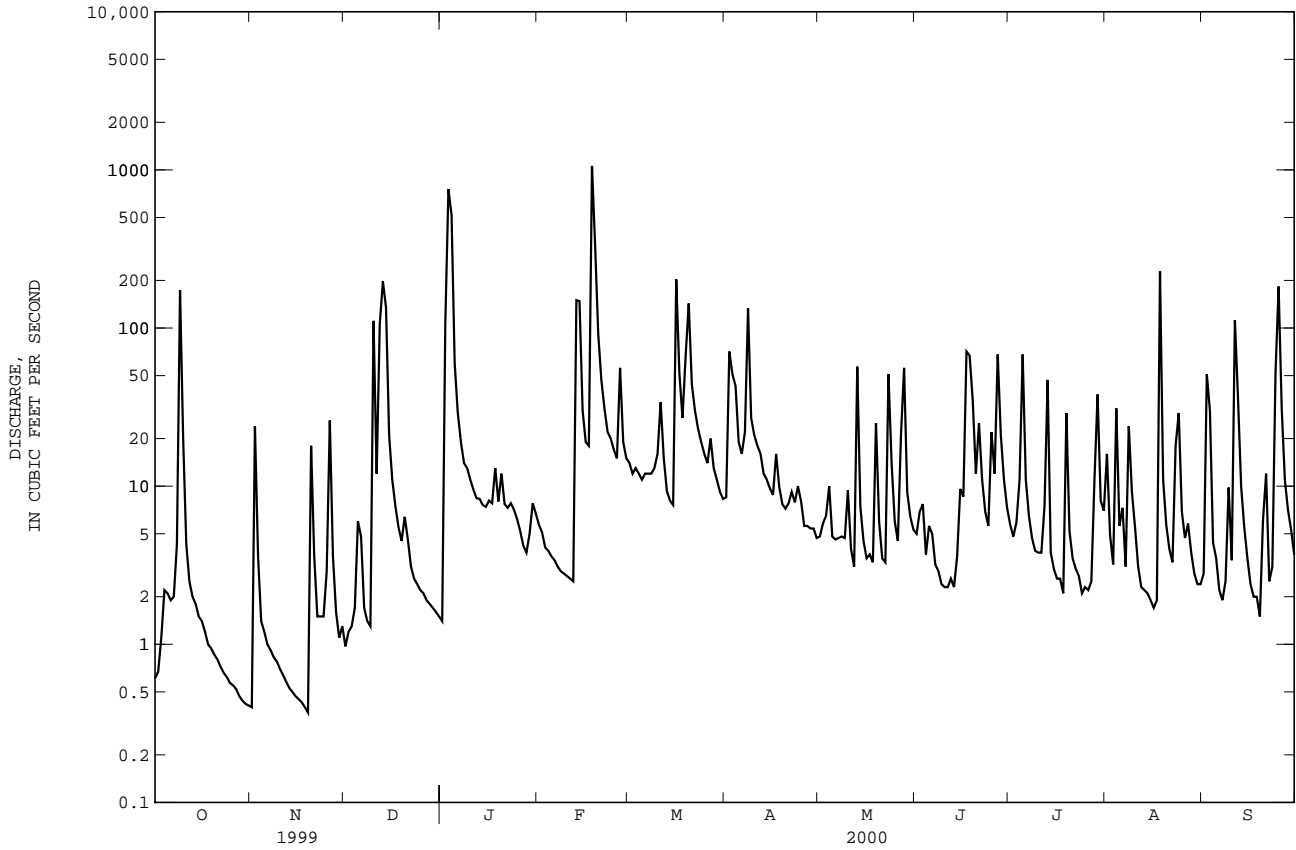
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)
MEAN	7.51	13.5	23.0	32.2
MAX	46.7	53.9	73.6	125
(WY)	1978	1974	1979	1950
MIN	.30	.84	1.32	.71
(WY)	1953	1953	1977	1940

03292500 SOUTH FORK BEARGRASS CREEK AT LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL TOTAL	6211.75		8493.33		22.9	
ANNUAL MEAN	17.0		23.2		41.6	
HIGHEST ANNUAL MEAN					9.35	
LOWEST ANNUAL MEAN					1960	
HIGHEST DAILY MEAN	381	Jun 28	1060	Feb 18	1960	Mar 2 1997
LOWEST DAILY MEAN	.37	Nov 19	.37	Nov 19	.00	Sep 4 1940
ANNUAL SEVEN-DAY MINIMUM	.45	Nov 13	.45	Nov 13	.00	Sep 4 1940
INSTANTANEOUS PEAK FLOW			2580		5290	Mar 2 1997
INSTANTANEOUS PEAK STAGE			15.55		17.81	Mar 2 1997
INSTANTANEOUS LOW FLOW					.00	Sep 4 1940
ANNUAL RUNOFF (CFSM)	.99		1.35		1.33	
ANNUAL RUNOFF (INCHES)	13.43		18.37		18.11	
10 PERCENT EXCEEDS	40		45		48	
50 PERCENT EXCEEDS	5.1		5.7		7.5	
90 PERCENT EXCEEDS	1.0		1.2		.97	

e Estimated



BEARGRASS CREEK BASIN

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, 100 ft. upstream of Winter Avenue, at Louisville 1.4 mi above Middle Fork Beargrass Creek, and at mile 3.3

DRAINAGE AREA.--22.6 mi².

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.

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	2.0	1.6	1.5	e1.80	5.2	10	7.9	e8.0	e5.8	7.0	23	2.6
2	1.6	21	2.2	97	4.7	8.2	86	e9.7	e7.0	5.6	5.5	55
3	1.6	3.3	1.9	1060	4.4	8.2	63	e11	e8.4	5.1	3.9	55
4	1.8	1.5	2.1	809	4.4	7.9	69	e19	e4.4	17	38	5.3
5	1.7	1.4	7.1	60	e3.85	5.6	25	e8.1	e6.0	88	8.2	3.9
6	1.9	1.3	6.3	35	e3.65	5.3	18	e8.4	e5.4	19	10	2.9
7	1.8	1.3	2.4	25	e3.50	4.9	24	e8.6	e4.6	9.7	3.6	2.3
8	1.7	1.3	2.0	20	e3.35	4.5	184	e8.0	e3.8	5.5	32	2.7
9	220	1.3	1.8	19	e3.30	4.3	50	e8.5	3.6	4.6	16	12
10	27	1.4	135	14	e3.15	3.5	38	e17	3.3	4.4	7.9	5.3
11	4.7	1.3	18	9.9	e3.05	30	33	e9.0	3.1	5.0	4.4	124
12	2.8	1.3	117	7.7	e2.95	14	30	e5.4	3.1	9.9	3.2	54
13	2.2	1.5	251	6.8	184	6.3	25	e68	2.8	56	2.8	15
14	1.5	1.7	185	5.9	219	5.0	24	e26	3.0	4.7	2.8	7.2
15	1.4	1.4	29	5.6	56	4.6	23	e13	12	3.4	2.6	4.7
16	1.3	1.5	16	5.6	35	252	22	e4.4	13	3.0	2.2	3.5
17	1.4	1.6	11	5.7	28	77	38	e4.2	82	2.8	2.1	3.1
18	1.3	1.5	7.9	13	2230	33	26	e3.9	82	2.6	306	3.1
19	1.4	3.8	5.7	6.9	467	74	22	e28	48	39	15	2.6
20	1.4	15	7.6	11	119	180	21	e18	17	6.0	6.9	7.4
21	1.5	4.1	5.4	6.3	61	65	19	e4.4	36	3.4	4.9	20
22	1.5	2.1	3.8	5.7	33	38	18	e3.8	15	3.1	3.7	4.2
23	1.4	1.7	3.2	6.0	20	26	16	e60	8.3	2.7	26	3.6
24	1.4	1.5	e2.7	5.6	16	19	21	e35	6.8	2.6	43	71
25	1.5	3.2	e2.5	4.9	12	16	23	e14.5	34	2.4	8.4	240
26	1.4	31	e2.4	4.7	11	14	15	e5.0	13	2.3	5.1	50
27	1.5	5.6	e2.3	4.1	58	24	14	e14	92	2.5	6.5	19
28	1.6	2.6	e2.15	4.0	15	13	13	e84	30	15	4.6	12
29	1.6	1.9	e2.05	4.9	12	10	e10	e45	16	55	3.4	8.3
30	1.6	1.7	e1.95	6.5	---	8.4	e8.8	e10	9.5	13	2.9	6.1
31	1.5	---	e1.90	5.7	---	7.3	---	e8.0	---	6.7	2.6	---
TOTAL	297.0	121.4	840.85	2277.30	3621.50	979.0	986.7	569.9	578.9	407.0	607.2	805.8
MEAN	9.58	4.05	27.1	73.5	125	31.6	32.9	18.4	19.3	13.1	19.6	26.9
MAX	220	31	251	1060	2230	252	184	84	92	88	306	240
MIN	1.3	1.3	1.5	1.8	3.0	3.5	7.9	3.8	2.8	2.3	2.1	2.3

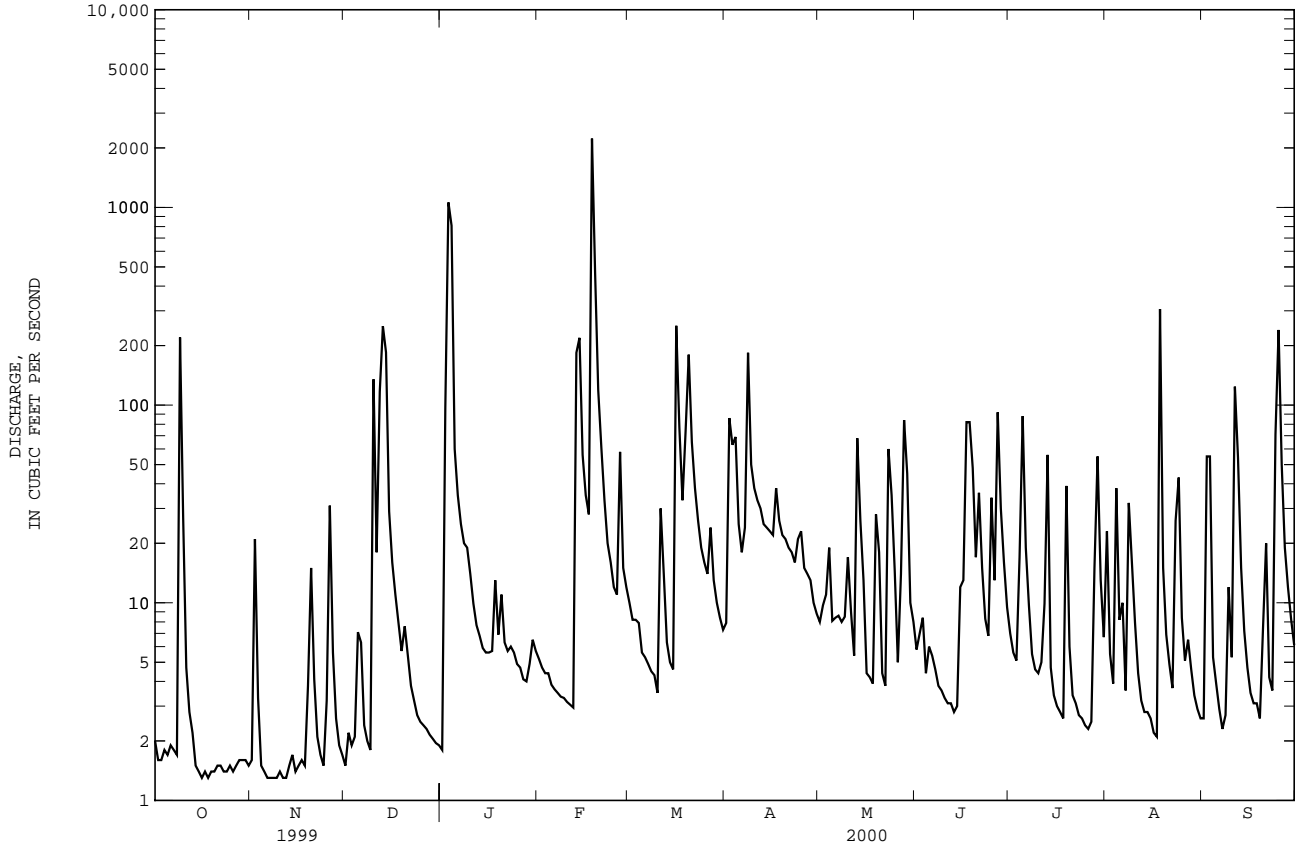
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

	1998	1999	2000	1998	1999	2000	1998	1999	2000	1998	1999	2000
MEAN	10.5	7.03	22.1	67.1	74.8	30.8	27.3	17.2	30.5	8.84	11.2	15.1
MAX	11.5	10.0	27.1	73.5	125	31.6	32.9	18.4	41.6	13.1	19.6	26.9
(WY)	1999	1999	2000	2000	2000	2000	2000	1999	2000	2000	2000	2000
MIN	9.58	4.05	17.1	60.7	22.9	30.1	21.8	16.1	19.3	4.55	2.78	3.29
(WY)	2000	2000	1999	1999	1999	1999	1999	1999	2000	1999	1999	1999

03292550 SOUTH FORK BEARGRASS CREEK AT WINTER AVENUE AT LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	7439.65		12092.55			
ANNUAL MEAN	20.4		33.0		26.6	
HIGHEST ANNUAL MEAN					33.0	
LOWEST ANNUAL MEAN					20.2	
HIGHEST DAILY MEAN	548	Jun 28	2230	Feb 18	2230	Feb 18 2000
LOWEST DAILY MEAN	1.3	Oct 16	1.3	Oct 16	1.3	Oct 16 1999
ANNUAL SEVEN-DAY MINIMUM	1.3	Nov 6	1.3	Nov 6	1.3	Nov 6 1999
INSTANTANEOUS PEAK FLOW			8470	Feb 18	8470	Feb 18 2000
INSTANTANEOUS PEAK STAGE			10.89	Feb 18	10.89	Feb 18 2000
10 PERCENT EXCEEDS	41		57		53	
50 PERCENT EXCEEDS	5.9		6.5		6.9	
90 PERCENT EXCEEDS	1.6		1.6		2.1	

e Estimated



BEARGRASS CREEK BASIN

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 mi², of which about 0.5 mi² 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.

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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 13	2220	759	4.89	Feb 18	1825	*2,320	*7.21
Jan 2	2350	666	4.63	Aug 18	0540	1,130	5.71
Jan 3	2315	2,100	7.04	Sep 25	1445	676	4.66
Feb 13	2255	777	4.94				

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	1.6	.54	1.7	3.1	6.9	15	6.0	3.6	5.1	4.8	10	1.6
2	.97	16	1.6	62	6.3	13	59	4.1	5.2	3.4	2.5	23
3	.67	4.0	1.5	695	6.2	12	46	4.0	5.1	2.9	1.6	16
4	.68	2.1	2.0	496	6.4	10	52	7.8	3.1	6.8	2.0	3.9
5	.36	1.6	5.0	78	5.9	8.6	26	4.5	4.3	45	1.1	2.8
6	.28	1.5	5.1	48	5.6	7.7	19	4.2	e3.8	12	1.5	2.2
7	.19	1.5	2.5	34	5.7	6.9	19	4.0	e3.2	10	1.1	1.6
8	.10	1.3	1.9	25	5.8	6.6	128	3.7	e2.7	4.9	16	1.7
9	145	1.1	1.6	18	5.8	6.3	36	2.9	2.1	3.2	8.2	3.3
10	32	1.1	99	14	6.1	5.9	26	6.1	1.6	2.3	3.6	2.1
11	12	1.1	20	12	6.2	21	23	2.6	1.3	2.4	1.8	55
12	6.4	.98	89	10	5.8	14	18	2.8	1.0	2.4	1.2	36
13	4.1	.91	184	9.9	138	8.4	14	50	1.0	18	.90	11
14	3.0	.94	168	8.5	205	6.5	13	10	1.7	2.2	.51	5.7
15	2.4	.89	42	7.8	54	5.7	11	5.0	5.0	1.6	.35	3.9
16	1.9	.57	23	7.8	35	196	9.8	3.6	10	.97	.38	2.9
17	1.6	.79	15	7.1	27	64	25	2.7	45	.80	.51	2.3
18	1.4	.82	10	9.7	1120	36	18	2.6	52	.72	302	2.0
19	1.2	1.0	7.9	8.5	420	68	12	16	31	16	20	1.6
20	1.1	17	9.9	11	110	157	10	6.7	12	3.3	10	3.5
21	.95	4.6	7.3	8.3	66	60	8.9	3.8	27	1.6	4.8	13
22	.87	2.8	5.7	7.6	50	42	7.8	7.2	11	1.6	3.3	2.8
23	.86	2.1	4.4	7.9	37	31	6.8	53	6.7	.96	19	2.0
24	.77	2.0	4.5	7.4	29	24	7.8	22	4.3	.75	89	43
25	.75	2.4	4.1	6.7	22	19	8.5	7.8	24	.53	15	188
26	.77	22	3.8	6.3	18	16	6.4	5.0	6.6	.60	8.6	51
27	.80	6.1	3.9	5.8	53	20	5.8	36	48	.50	8.0	21
28	.54	3.5	3.4	5.4	23	13	5.4	67	22	3.7	5.1	11
29	.49	2.4	3.2	6.1	18	9.8	5.0	20	11	19	3.6	8.8
30	.56	1.9	3.1	7.9	---	8.2	4.6	9.8	7.2	5.9	2.6	6.1
31	.53	---	3.0	7.8	---	6.8	---	7.0	---	7.9	2.0	---
TOTAL	224.84	105.54	737.1	1642.6	2497.7	918.4	637.8	385.5	364.0	186.73	546.25	528.8
MEAN	7.25	3.52	23.8	53.0	86.1	29.6	21.3	12.4	12.1	6.02	17.6	17.6
MAX	145	22	184	695	1120	196	128	67	52	45	302	188
MIN	.10	.54	1.5	3.1	5.6	5.7	4.6	2.6	1.0	.50	.35	1.6
CFSM	.39	.19	1.29	2.88	4.68	1.61	1.16	.68	.66	.33	.96	.96
IN.	.45	.21	1.49	3.32	5.05	1.86	1.29	.78	.74	.38	1.10	1.07

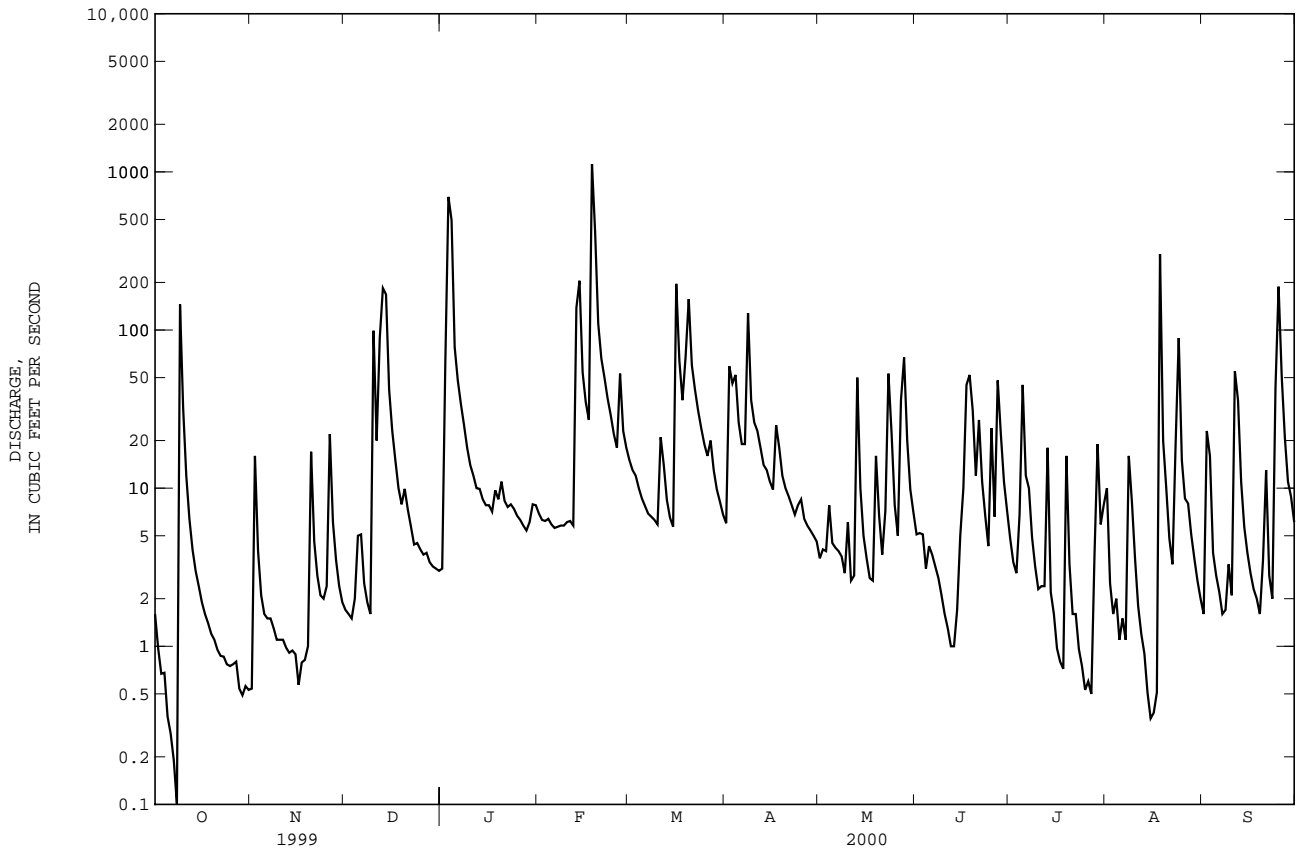
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2000, BY WATER YEAR (WY)

MEAN	8.42	16.1	26.9	34.3	43.0	50.5	37.8	30.3	20.8	16.3	11.2	9.37
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 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1944 - 2000	
ANNUAL TOTAL	6409.11	8775.26		
ANNUAL MEAN	17.6	24.0	25.3	
HIGHEST ANNUAL MEAN			49.2	1979
LOWEST ANNUAL MEAN			3.76	1954
HIGHEST DAILY MEAN	332 Jan 23	1120 Feb 18	2000	Mar 9 1964
LOWEST DAILY MEAN	.00 Aug 24	.10 Oct 8	.00	Aug 27 1952
ANNUAL SEVEN-DAY MINIMUM	.02 Sep 20	.46 Oct 2	.00	Sep 28 1952
INSTANTANEOUS PEAK FLOW		2320 Feb 18	5900	Mar 2 1997
INSTANTANEOUS PEAK STAGE		7.21 Feb 18	8.70	Mar 2 1997
INSTANTANEOUS LOW FLOW			.00	Aug 27 1952
ANNUAL RUNOFF (CFSM)	.95	1.30	1.38	
ANNUAL RUNOFF (INCHES)	12.96	17.74	18.70	
10 PERCENT EXCEEDS	46	48	53	
50 PERCENT EXCEEDS	5.2	6.1	9.9	
90 PERCENT EXCEEDS	.10	.97	1.9	

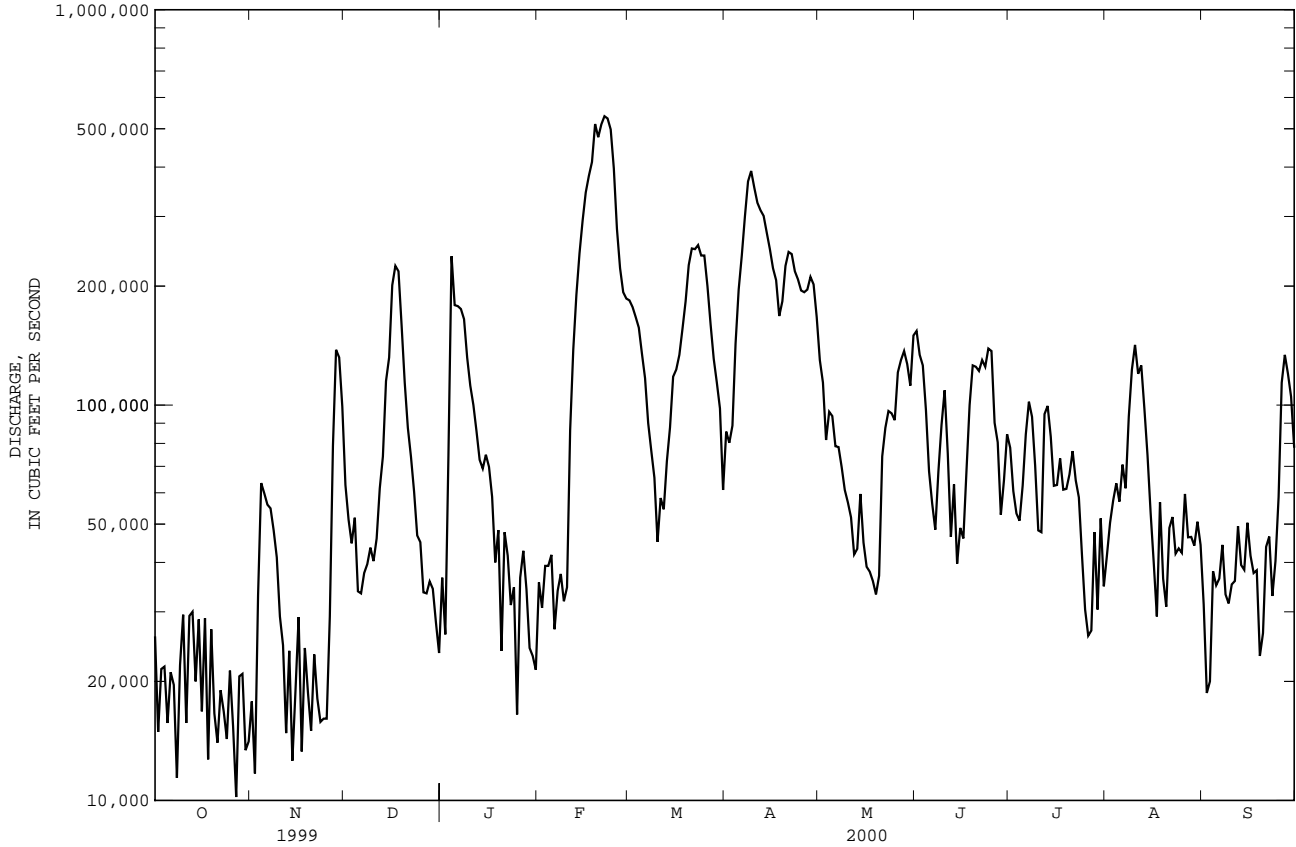
e Estimated



03294500 OHIO RIVER AT LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1929 - 2000	
ANNUAL TOTAL	29287450		34927600		116100	
ANNUAL MEAN	80240		95430		176700	
HIGHEST ANNUAL MEAN					57390	
LOWEST ANNUAL MEAN					1954	
HIGHEST DAILY MEAN	397000	Jan 27	538000	Feb 22	1110000	Jan 27 1937
LOWEST DAILY MEAN	2530	Jul 12	10200	Oct 27	2100	Aug 12 1930
ANNUAL SEVEN-DAY MINIMUM	7160	Jul 22	15500	Oct 27	3530	Oct 15 1930
INSTANTANEOUS PEAK FLOW			540000		1110000	
INSTANTANEOUS PEAK STAGE			51.65		85.44	
10 PERCENT EXCEEDS	223000		219000		279000	
50 PERCENT EXCEEDS	35800		60800		72200	
90 PERCENT EXCEEDS	9260		21400		16600	

e Estimated



MILL CREEK BASIN

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 confluence with Big Run Creek, 1.5 mi upstream from Ohio River, and at mile 616.3

DRAINAGE AREA.--24.4 mi².

PERIOD OF RECORD.--May 1988 to January 1995, July 1999 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Records good.

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

PEAK DISCHARGES FOR 1999 WATER YEAR.--discharge 49 ft³/s, gage-height 3.59 ft August 8, 1999.

PEAK DISCHARGES FOR 2000 WATER YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 9	1630	668	6.64	Feb 13	2035	1,300	8.72
Dec 13	2200	944	7.60	Feb 18	1920	2,420	11.71
Jan 2	2305	791	7.08	Mar 16	1205	1,070	8.00
Jan 3	1100	917	7.51	Apr 8	0110	644	6.55
Jan 3	2135	*2,800	*12.61	Sep 25	1410	875	7.37

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	---	---	---	---	---	---	---	---	---	---	1.4	.37
2	---	---	---	---	---	---	---	---	---	---	1.6	.30
3	---	---	---	---	---	---	---	---	---	---	.82	.37
4	---	---	---	---	---	---	---	---	---	---	1.0	.33
5	---	---	---	---	---	---	---	---	---	---	.95	.34
6	---	---	---	---	---	---	---	---	---	---	.84	.21
7	---	---	---	---	---	---	---	---	---	---	.88	.12
8	---	---	---	---	---	---	---	---	---	---	7.1	.21
9	---	---	---	---	---	---	---	---	---	---	4.7	.12
10	---	---	---	---	---	---	---	---	---	---	.86	.08
11	---	---	---	---	---	---	---	---	---	---	.74	.11
12	---	---	---	---	---	---	---	---	---	---	.79	.14
13	---	---	---	---	---	---	---	---	---	---	.85	.10
14	---	---	---	---	---	---	---	---	---	---	.83	.02
15	---	---	---	---	---	---	---	---	---	---	.76	.11
16	---	---	---	---	---	---	---	---	---	---	.62	.10
17	---	---	---	---	---	---	---	---	---	---	.55	.10
18	---	---	---	---	---	---	---	---	---	---	.64	.07
19	---	---	---	---	---	---	---	---	---	---	4.7	.06
20	---	---	---	---	---	---	---	---	---	---	1.6	.05
21	---	---	---	---	---	---	---	---	---	---	.87	.10
22	---	---	---	---	---	---	---	---	---	---	.91	.09
23	---	---	---	---	---	---	---	---	---	---	.90	.09
24	---	---	---	---	---	---	---	---	---	---	.97	.09
25	---	---	---	---	---	---	---	---	---	---	.96	.03
26	---	---	---	---	---	---	---	---	---	.92	.68	.00
27	---	---	---	---	---	---	---	---	---	.90	.58	.00
28	---	---	---	---	---	---	---	---	---	1.9	.46	.27
29	---	---	---	---	---	---	---	---	---	1.7	.42	1.3
30	---	---	---	---	---	---	---	---	---	1.0	.28	1.2
31	---	---	---	---	---	---	---	---	---	1.0	.26	---
TOTAL	---	---	---	---	---	---	---	---	---	9.35	39.17	6.48
MEAN	---	---	---	---	---	---	---	---	---	1.17	1.26	.22
MAX	---	---	---	---	---	---	---	---	---	1.9	7.1	1.3
MIN	---	---	---	---	---	---	---	---	---	.90	.26	.00
CFSM	---	---	---	---	---	---	---	---	---	.05	.05	.01
IN.	---	---	---	---	---	---	---	---	---	.01	.06	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1999, BY WATER YEAR (WY)

	4.69	9.65	19.3	25.6	41.0	32.3	14.2	20.0	12.8	9.22	8.57	4.31
MEAN	4.69	9.65	19.3	25.6	41.0	32.3	14.2	20.0	12.8	9.22	8.57	4.31
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	3.25	1.35	6.60	3.97	7.11	4.89	6.36	.042	1.19	1.26	.067
(WY)	1989	1992	1990	1992	1992	1990	1992	1992	1988	1990	1999	1988

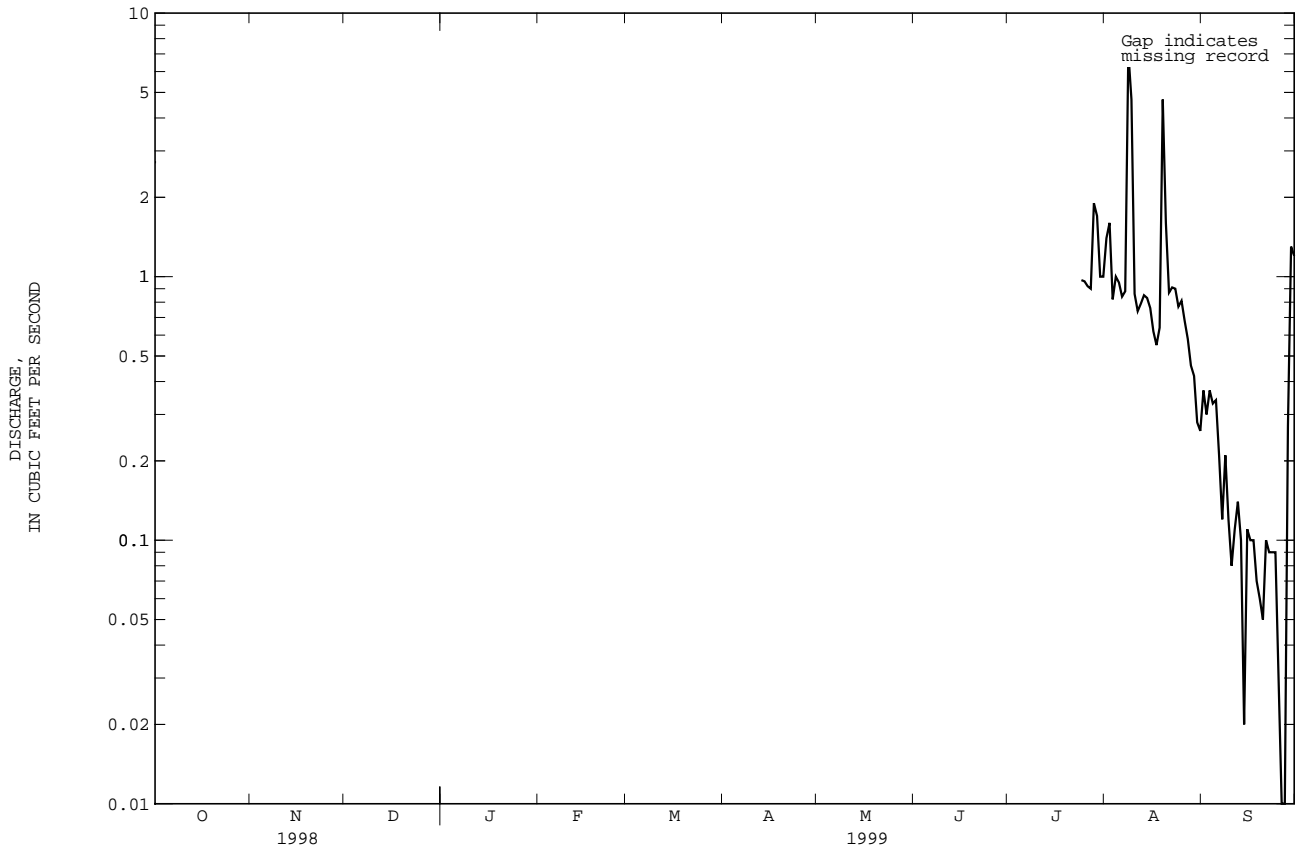
03294550 MILL CREEK CUTOFF NEAR LOUISVILLE, KY--Continued

SUMMARY STATISTICS

FOR 1999 WATER YEAR

WATER YEARS 1988 - 1999

ANNUAL MEAN			17.1	
HIGHEST ANNUAL MEAN			25.5	1991
LOWEST ANNUAL MEAN			11.6	1992
HIGHEST DAILY MEAN			1070	Feb 15 1990
LOWEST DAILY MEAN			.00	May 15 1988
ANNUAL SEVEN-DAY MINIMUM			.00	May 28 1988
INSTANTANEOUS PEAK FLOW	49	Aug 8	49	Aug 8 1999
INSTANTANEOUS PEAK STAGE	3.59	Aug 8	15.83	Aug 8 1992
ANNUAL RUNOFF (CFSM)			.70	
ANNUAL RUNOFF (INCHES)			9.53	
10 PERCENT EXCEEDS	1.6		30	
50 PERCENT EXCEEDS	.62		1.6	
90 PERCENT EXCEEDS	.07		.19	



MILL CREEK BASIN

03294550 MILL CREEK CUTOFF NEAR LOUISVILLE, 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	.40	.22	.18	.03	.15	.23	.25	.00	.00	.05	6.8	.00
2	.01	1.1	.19	57	.12	.21	27	.05	.04	.00	.34	.00
3	.00	.25	.21	719	.12	.23	29	.58	.08	.00	.02	7.0
4	.00	.14	.25	150	.13	.28	30	11	.00	31	.00	.00
5	.00	.11	.33	4.9	.11	.20	3.0	.33	.07	29	.00	.00
6	.00	.12	.37	.81	.10	.13	.81	.18	.02	2.4	.00	.00
7	.00	.10	.23	.74	.10	.12	1.3	.09	.00	.17	.00	.00
8	.00	.11	.22	.48	.11	.12	135	.00	.00	.04	.06	.00
9	138	.13	.22	.42	.11	.04	6.3	.00	.00	.00	2.4	.00
10	6.6	.16	106	.35	.09	.00	2.1	.00	.00	.00	.08	.00
11	.28	.13	.62	.32	.09	5.3	1.4	.00	.00	.00	.00	16
12	.19	.15	112	.34	.00	2.3	1.1	.00	.00	.00	.00	6.3
13	.11	.18	164	.29	227	.26	.84	29	.01	.00	.00	.33
14	.07	.17	107	.27	113	.13	.75	1.0	.00	.00	.00	.00
15	.08	.12	.56	.28	2.5	.08	.46	.23	.00	.00	.00	.00
16	.09	.21	.30	.23	.67	236	.29	.09	.00	.00	.00	.00
17	.07	.21	.24	.26	.29	17	1.1	.00	38	.00	.00	.00
18	.06	.22	.23	1.4	941	3.5	.59	.00	17	.00	28	.00
19	.08	.24	.22	.46	e25.5	31	.27	3.5	9.6	1.3	.54	.00
20	.10	.79	.23	.84	e8.2	116	.79	.49	.35	.31	.01	.00
21	.09	.25	.22	.38	e3.6	10	3.6	.11	7.2	.00	.00	.00
22	.10	.19	.22	.24	e1.8	2.6	.45	.04	.64	.00	.00	.00
23	.10	.16	.19	.23	e1.1	.85	.33	8.4	.13	.00	.07	.00
24	.11	.16	.15	.22	e.66	.44	.36	3.1	.04	.00	46	58
25	.13	.22	.10	.20	e.43	.34	.48	.22	5.2	.00	.49	133
26	.15	2.7	.10	.15	.30	.31	.26	.10	.41	.00	.07	10
27	.16	.30	.10	.12	30	2.1	.14	.38	60	.00	.14	.43
28	.14	.21	.09	.11	1.4	.47	.10	39	5.9	.00	.03	.05
29	.14	.18	.06	.14	.34	.31	.02	1.5	.30	3.5	.00	.00
30	.14	.18	.08	.17	---	.27	.00	.12	.15	1.3	.00	.00
31	.17	---	.06	.15	---	.23	---	.00	---	.45	.00	---
TOTAL	147.57	9.41	494.97	940.53	1359.02	431.05	248.09	99.51	145.14	69.52	85.05	231.11
MEAN	4.76	.31	16.0	30.3	46.9	13.9	8.27	3.21	4.84	2.24	2.74	7.70
MAX	138	2.7	164	719	941	236	135	39	60	31	46	133
MIN	.00	.10	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00
CFSM	.20	.01	.65	1.24	1.92	.57	.34	.13	.20	.09	.11	.32
IN.	.22	.01	.75	1.43	2.07	.66	.38	.15	.22	.11	.13	.35

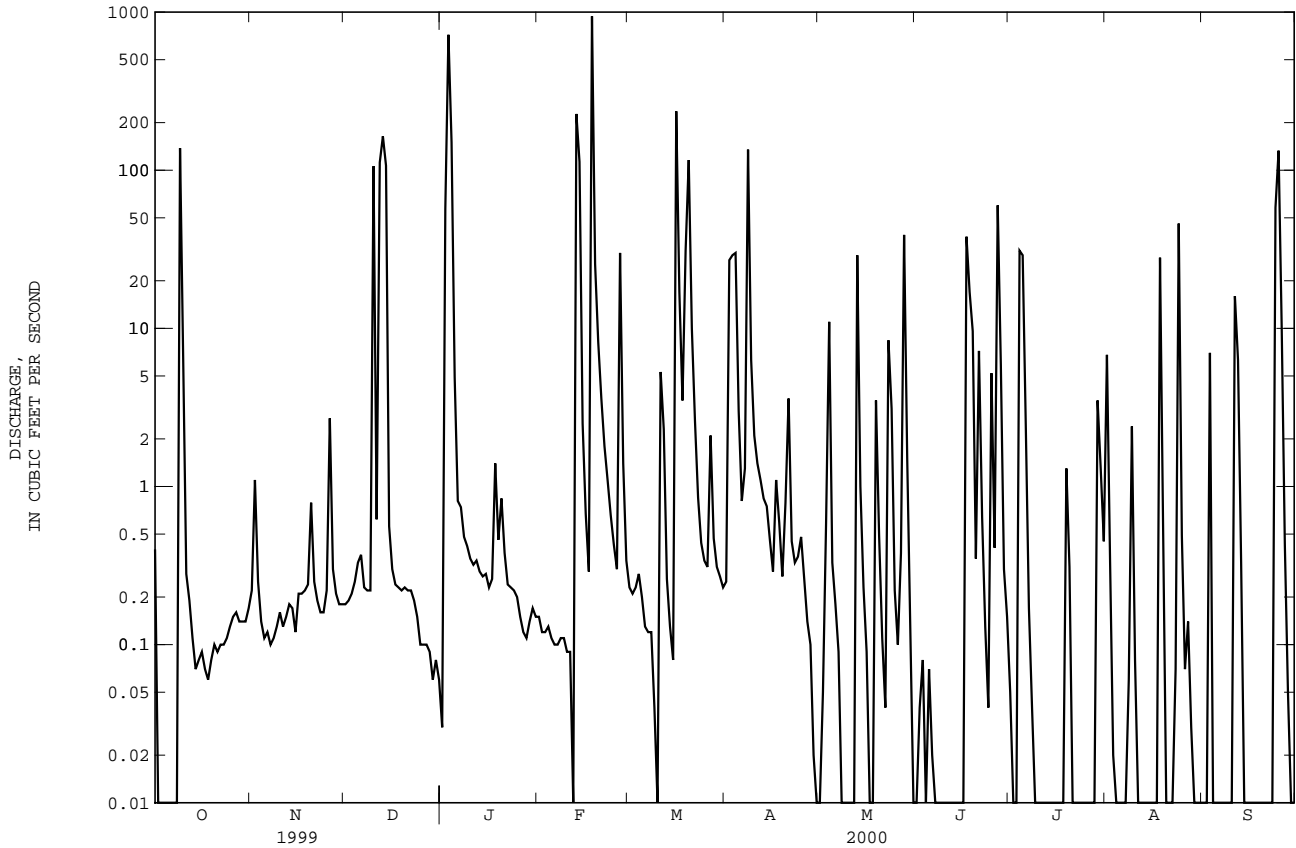
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2000, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	4.70	8.32	18.8	26.3	41.8	29.6	13.4	17.6	11.8	8.35	7.92	4.69	
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	6.60	3.97	7.11	4.89	3.21	.042	1.19	1.26	.067	
(WY)	1989	2000	1990	1992	1992	1990	1992	2000	1988	1990	1999	1988	

03294550 MILL CREEK CUTOFF NEAR LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1988 - 2000
ANNUAL TOTAL		4260.97	
ANNUAL MEAN		11.6	16.3
HIGHEST ANNUAL MEAN			25.5
LOWEST ANNUAL MEAN			11.6
HIGHEST DAILY MEAN	164 Dec 13	941 Feb 18	1070 Feb 15 1990
LOWEST DAILY MEAN	.00 Sep 26	.00 Oct 3	.00 May 15 1988
ANNUAL SEVEN-DAY MINIMUM	.00 Oct 2	.00 Jul 9	.00 May 28 1988
INSTANTANEOUS PEAK FLOW		2800 Jan 3	4310 Aug 8 1992
INSTANTANEOUS PEAK STAGE		12.61 Jan 3	15.83 Aug 8 1992
ANNUAL RUNOFF (CFSM)		.48	.67
ANNUAL RUNOFF (INCHES)		6.50	9.10
10 PERCENT EXCEEDS	1.3	9.7	28
50 PERCENT EXCEEDS	.21	.18	1.3
90 PERCENT EXCEEDS	.06	.00	.08

e Estimated



MILL CREEK BASIN

03294570 MILL CREEK AT ORELL ROAD NEAR LOUISVILLE, KY

LOCATION.--Lat 38°04'41", long 85°53'24", Jefferson County, Hydrologic Unit 05140101, on on right bank at bridge on Orell Road, 5.0 mi southwest of Louisville, and at mile 1.5

DRAINAGE AREA.--13.5 mi².

PERIOD OF RECORD.--Miscellaneous discharge measurements made February 1988 to August 1998, August 1, 1999 to September 30, 2000.

GAGE.--Water-stage recorder. Datum of gage is 415 ft above NGVD of 1929(from topographic map).

REMARKS.--August 1, 1999 to Seotember 30, 1999: Records fair. 2000 water year: 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 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	3.7	.58
2	---	---	---	---	---	---	---	---	---	---	4.2	.52
3	---	---	---	---	---	---	---	---	---	---	2.0	.76
4	---	---	---	---	---	---	---	---	---	---	2.1	1.1
5	---	---	---	---	---	---	---	---	---	---	1.9	1.2
6	---	---	---	---	---	---	---	---	---	---	2.1	.88
7	---	---	---	---	---	---	---	---	---	---	2.2	.70
8	---	---	---	---	---	---	---	---	---	---	4.1	.41
9	---	---	---	---	---	---	---	---	---	---	6.0	.26
10	---	---	---	---	---	---	---	---	---	---	2.8	2.4
11	---	---	---	---	---	---	---	---	---	---	2.0	4.6
12	---	---	---	---	---	---	---	---	---	---	1.5	6.2
13	---	---	---	---	---	---	---	---	---	---	1.8	7.7
14	---	---	---	---	---	---	---	---	---	---	2.4	7.9
15	---	---	---	---	---	---	---	---	---	---	1.5	6.2
16	---	---	---	---	---	---	---	---	---	---	2.1	3.3
17	---	---	---	---	---	---	---	---	---	---	2.6	4.0
18	---	---	---	---	---	---	---	---	---	---	2.7	4.3
19	---	---	---	---	---	---	---	---	---	---	2.0	3.9
20	---	---	---	---	---	---	---	---	---	---	2.8	3.9
21	---	---	---	---	---	---	---	---	---	---	3.4	4.7
22	---	---	---	---	---	---	---	---	---	---	2.7	4.4
23	---	---	---	---	---	---	---	---	---	---	2.6	4.4
24	---	---	---	---	---	---	---	---	---	---	3.2	4.8
25	---	---	---	---	---	---	---	---	---	---	3.7	5.2
26	---	---	---	---	---	---	---	---	---	---	3.7	5.0
27	---	---	---	---	---	---	---	---	---	---	3.3	4.6
28	---	---	---	---	---	---	---	---	---	---	3.2	6.8
29	---	---	---	---	---	---	---	---	---	---	3.0	8.9
30	---	---	---	---	---	---	---	---	---	---	1.3	6.2
31	---	---	---	---	---	---	---	---	---	---	.72	---
TOTAL	---	---	---	---	---	---	---	---	---	---	83.32	115.81
MEAN	---	---	---	---	---	---	---	---	---	---	2.69	3.86
MAX	---	---	---	---	---	---	---	---	---	---	6.0	8.9
MIN	---	---	---	---	---	---	---	---	---	---	.72	.26

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

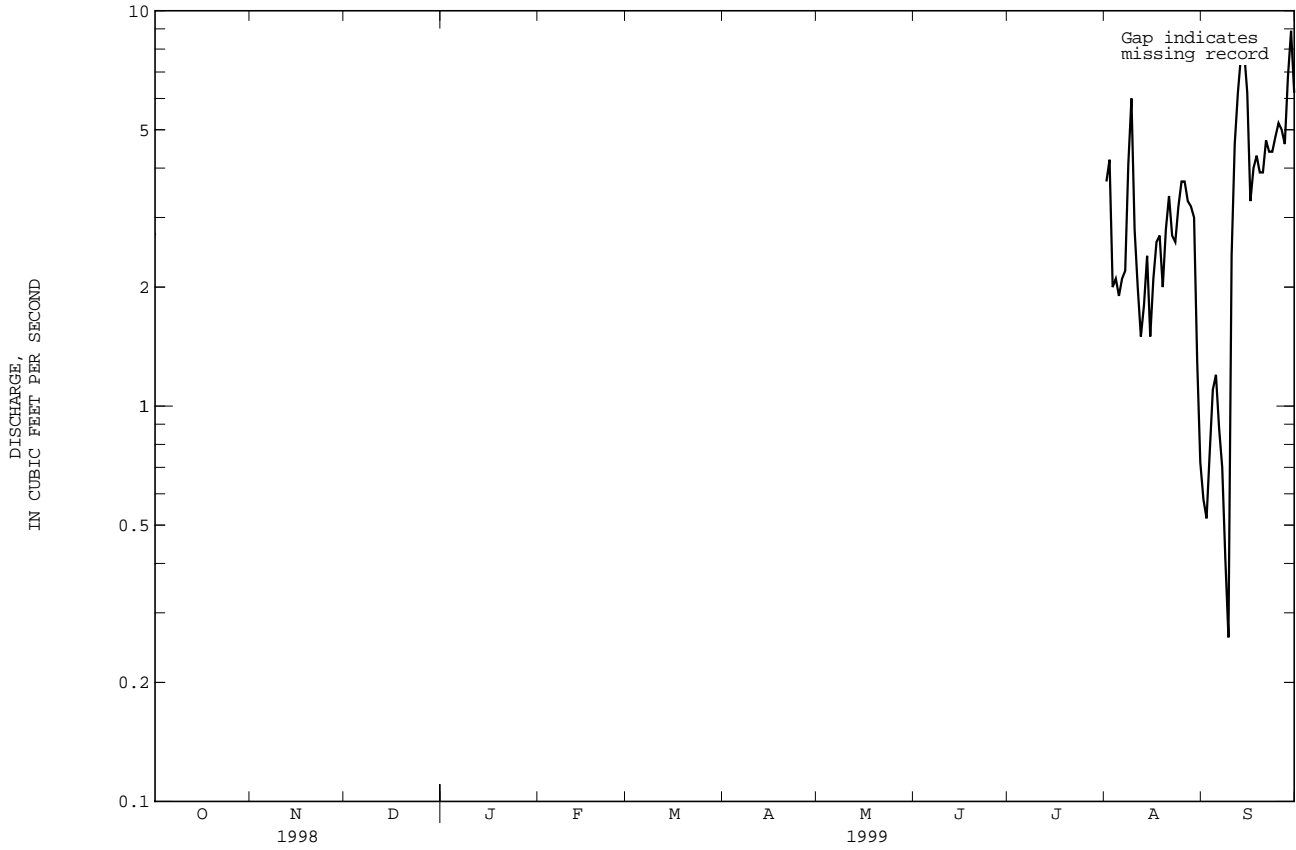
MEAN	---	---	---	---	---	---	---	---	---	---	2.69	3.86
MAX	---	---	---	---	---	---	---	---	---	---	2.69	3.86
(WY)	---	---	---	---	---	---	---	---	---	---	1999	1999
MIN	---	---	---	---	---	---	---	---	---	---	2.69	3.86
(WY)	---	---	---	---	---	---	---	---	---	---	1999	1999

03294570 MILL CREEK AT ORELL ROAD NEAR LOUISVILLE, KY--Continued

SUMMARY STATISTICS

FOR 1999 WATER YEAR

HIGHEST DAILY MEAN	8.9	Sep 29
LOWEST DAILY MEAN	.26	Sep 9
ANNUAL SEVEN-DAY MINIMUM	.76	Sep 3
INSTANTANEOUS PEAK FLOW	13	Sep 29
INSTANTANEOUS PEAK STAGE	2.10	Sep 29
10 PERCENT EXCEEDS	6.2	
50 PERCENT EXCEEDS	3.0	
90 PERCENT EXCEEDS	.73	



MILL CREEK BASIN

03294570 MILL CREEK AT ORELL ROAD NEAR LOUISVILLE, KY--Continued

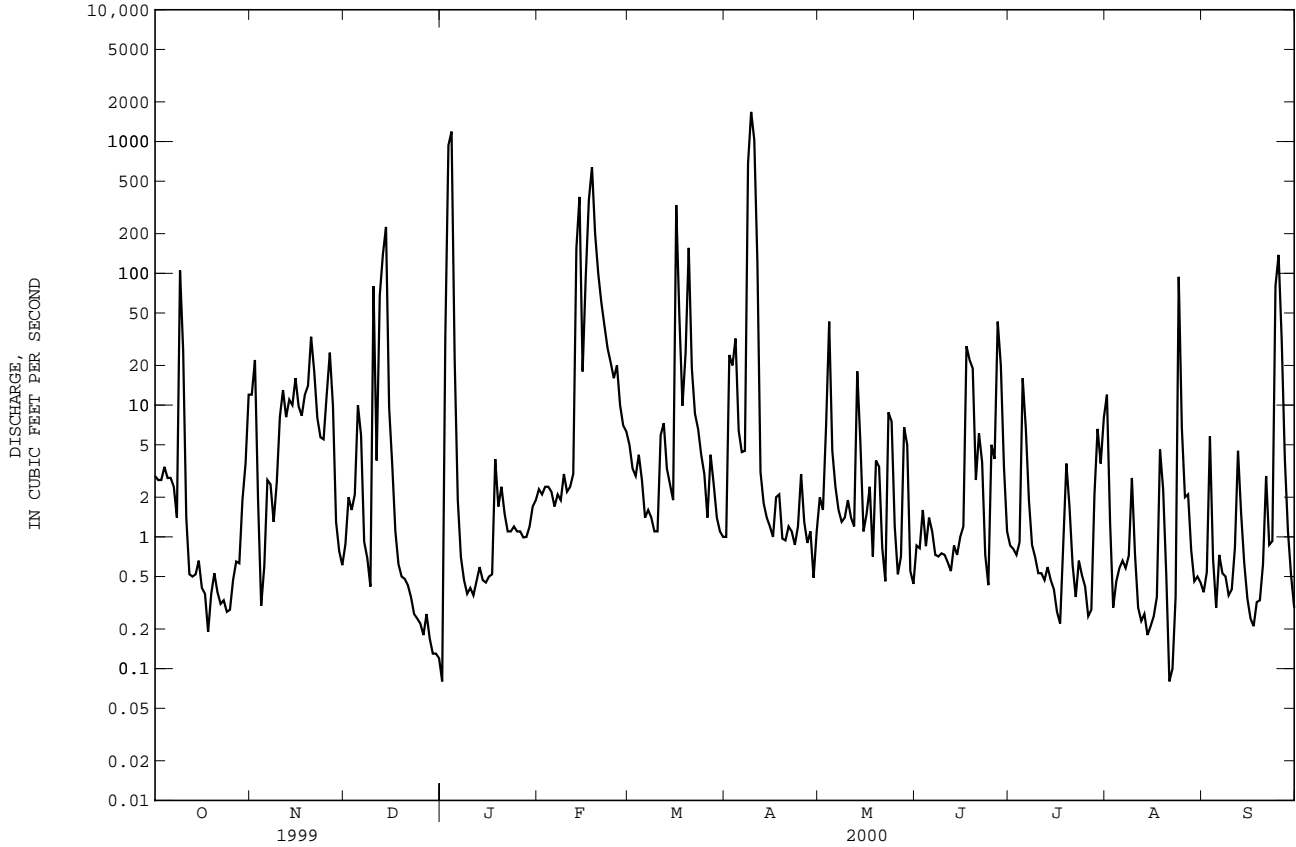
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	12	.88	.08	2.3	5.0	1.0	2.0	.86	.86	12	.38
2	2.7	22	2.0	33	2.1	3.3	24	1.6	.82	.81	1.3	.54
3	2.7	1.9	1.6	937	e2.4	2.9	20	6.9	1.6	.73	.29	5.8
4	3.4	.30	2.1	1190	2.4	4.2	32	43	.85	.91	.46	.68
5	2.8	.60	10	22	2.2	e2.7	6.4	4.5	1.4	16	.58	.29
6	2.8	2.7	5.9	1.9	1.7	1.4	4.4	2.4	1.1	6.7	.66	.73
7	2.4	2.5	.92	.70	2.1	1.6	4.5	1.6	.73	1.9	.58	.53
8	1.4	1.3	.69	.47	1.9	1.4	682	1.3	.71	.87	.72	.50
9	105	2.6	.42	.37	3.0	1.1	1680	1.4	.75	.70	2.8	.36
10	26	8.2	80	.41	2.2	1.1	1030	1.9	.73	.53	.73	.40
11	1.4	13	3.8	.36	2.4	5.9	121	1.4	.64	.53	.29	.82
12	.52	8.1	68	.46	3.0	7.3	3.1	1.2	.55	.47	.23	4.5
13	.50	11	139	.59	155	3.3	1.8	18	.86	.59	.26	1.5
14	.52	10	225	.47	380	2.5	1.4	5.2	.73	.47	.18	.63
15	.66	16	9.6	.45	18	1.9	1.2	1.1	1.0	.40	.21	.34
16	.41	9.8	3.5	.50	94	330	1.0	1.5	1.2	.27	.25	.24
17	.37	8.3	1.1	.52	e360	47	2.0	2.4	28	.22	.35	.21
18	.19	12	.62	3.9	e640	9.9	2.1	.71	22	.88	4.6	.32
19	.37	14	.50	1.7	e200	25	.97	3.8	19	3.6	2.3	.33
20	.53	33	.48	2.4	e100	156	.94	3.4	2.7	1.7	.52	.62
21	.38	18	.43	1.5	e60	19	1.2	.83	6.1	.61	.08	2.9
22	.31	8.0	.35	1.1	e40	8.6	1.1	.46	3.7	.35	.10	.87
23	.33	5.7	.26	1.1	e27	6.6	.87	8.8	.73	.66	.35	.93
24	.27	5.5	.24	1.2	e21	4.2	1.2	7.5	.43	.51	94	80
25	.28	12	.22	1.1	e16	3.0	3.0	1.2	5.0	.42	6.7	138
26	.47	25	.18	1.1	e20	1.4	1.3	.52	3.9	.25	2.0	31
27	.65	9.9	.26	.99	e10	4.2	.90	.71	43	.28	2.1	3.9
28	.63	1.3	.17	1.0	e7.0	2.5	1.1	6.8	20	2.1	.79	1.1
29	1.9	.78	.13	1.2	6.3	1.4	.49	5.0	3.4	6.6	.46	.51
30	3.6	.61	.13	1.7	---	1.1	1.1	.55	1.1	3.6	.50	.29
31	12	---	.12	1.9	---	1.0	---	.44	---	8.0	.45	---
TOTAL	178.39	276.09	558.60	2211.17	2182.0	666.5	3632.07	138.12	173.59	62.52	136.84	279.22
MEAN	5.75	9.20	18.0	71.3	75.2	21.5	121	4.46	5.79	2.02	4.41	9.31
MAX	105	33	225	1190	640	330	1680	43	43	16	94	138
MIN	.19	.30	.12	.08	1.7	1.0	.49	.44	.43	.22	.08	.21
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2000, BY WATER YEAR (WY)												
MEAN	4.37	7.21	14.9	31.9	42.1	14.2	42.0	13.3	7.56	4.34	2.95	3.78
MAX	8.70	9.64	30.2	71.3	75.2	21.5	121	36.1	15.9	10.5	4.41	9.31
(WY)	1991	1989	1991	2000	2000	2000	2000	1990	1989	2000	2000	2000
MIN	.57	4.73	2.67	12.4	13.8	6.93	11.8	3.80	.55	1.88	2.00	.54
(WY)	1989	1990	1990	1990	1991	1990	1990	1988	1988	1990	1988	1988

03294570 MILL CREEK AT ORELL ROAD NEAR LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1988 - 2000	
ANNUAL TOTAL			10495.11			
ANNUAL MEAN			28.7		17.5	
HIGHEST ANNUAL MEAN					28.7	2000
LOWEST ANNUAL MEAN					10.9	1990
HIGHEST DAILY MEAN	225	Dec 14	1680	Apr 9	1680	Apr 9 2000
LOWEST DAILY MEAN	.00	Jul 14	.08	Jan 1	.00	Jul 14 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 14	.15	Dec 26	.00	Jul 14 1999
INSTANTANEOUS PEAK FLOW			2990	Jan 4	2990	Jan 4 2000
INSTANTANEOUS PEAK STAGE			16.53	Feb 19	16.53	Feb 19 2000
10 PERCENT EXCEEDS	12		25		28	
50 PERCENT EXCEEDS	2.1		1.4		2.0	
90 PERCENT EXCEEDS	.00		.35		.39	

e Estimated



SALT RIVER BASIN

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 mi².

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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 18	2400	*10,400	10.32	No other peak greater than base discharge.			

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	2.9	3.1	8.9	11	e24	129	39	30	11	9.0	7.1	5.5
2	2.2	5.7	12	11	e28	115	40	29	8.0	8.4	8.0	5.1
3	1.7	11	10	803	e32	98	396	29	6.6	7.1	6.8	4.4
4	1.4	9.7	9.2	1700	e35	89	582	31	5.3	6.4	15	4.0
5	1.3	6.4	8.1	677	e40	81	190	38	4.8	7.8	17	3.5
6	1.2	28	7.6	233	e50	73	115	28	4.3	14	16	2.7
7	1.2	20	7.0	145	e60	64	83	27	3.8	12	11	3.0
8	1.6	14	6.7	105	e72	57	910	22	3.3	7.6	7.9	3.7
9	e4.2	11	6.5	84	88	53	384	17	2.9	5.4	7.3	4.0
10	e27	8.5	9.2	70	87	48	178	13	2.5	4.5	84	6.1
11	39	6.6	15	60	84	48	135	11	2.2	3.7	34	224
12	62	5.6	14	51	70	60	194	8.7	1.7	3.3	62	165
13	35	4.9	48	45	106	58	164	11	1.4	3.0	41	53
14	21	4.4	190	38	1390	54	126	17	1.3	3.0	22	30
15	13	3.7	150	32	649	45	103	12	2.2	2.5	14	61
16	11	3.0	101	29	292	463	85	9.0	8.6	2.1	9.9	38
17	7.0	2.7	60	e28	195	850	114	7.6	9.2	1.8	7.8	24
18	4.8	2.9	40	e26	3040	360	123	7.4	28	1.7	6.7	17
19	3.7	2.9	28	e25	4690	785	96	6.4	65	2.3	5.4	14
20	3.5	5.1	24	e24	1100	3550	82	5.2	71	3.2	4.3	12
21	3.4	8.2	20	e23	440	1220	199	5.0	38	3.2	3.7	10
22	6.4	7.0	17	e23	283	396	94	4.8	25	2.5	3.2	9.2
23	5.1	6.2	15	e22	213	227	74	6.6	16	2.3	3.1	11
24	3.7	5.7	14	e21	192	159	63	23	15	1.8	4.9	60
25	3.1	5.6	13	e20	225	120	59	26	12	1.4	6.2	334
26	2.7	5.7	13	e19	193	94	53	26	8.7	.79	4.9	352
27	2.3	5.2	11	e17	168	80	53	24	11	.73	16	138
28	2.4	5.2	11	e17	164	71	45	28	17	.83	20	97
29	3.0	5.3	11	e18	147	61	39	31	17	1.4	12	63
30	3.2	5.2	11	e20	---	52	33	22	11	3.1	9.0	43
31	3.1	---	10	e22	---	44	---	15	---	6.0	6.8	---
TOTAL	283.1	218.5	901.2	4419	14157	9604	4851	570.7	413.8	132.85	477.0	1797.2
MEAN	9.13	7.28	29.1	143	488	310	162	18.4	13.8	4.29	15.4	59.9
MAX	62	28	190	1700	4690	3550	910	38	71	14	84	352
MIN	1.2	2.7	6.5	11	24	44	33	4.8	1.3	.73	3.1	2.7
CFSM	.05	.04	.17	.83	2.84	1.80	.94	.11	.08	.02	.09	.35
IN.	.06	.05	.19	.96	3.06	2.08	1.05	.12	.09	.03	.10	.39

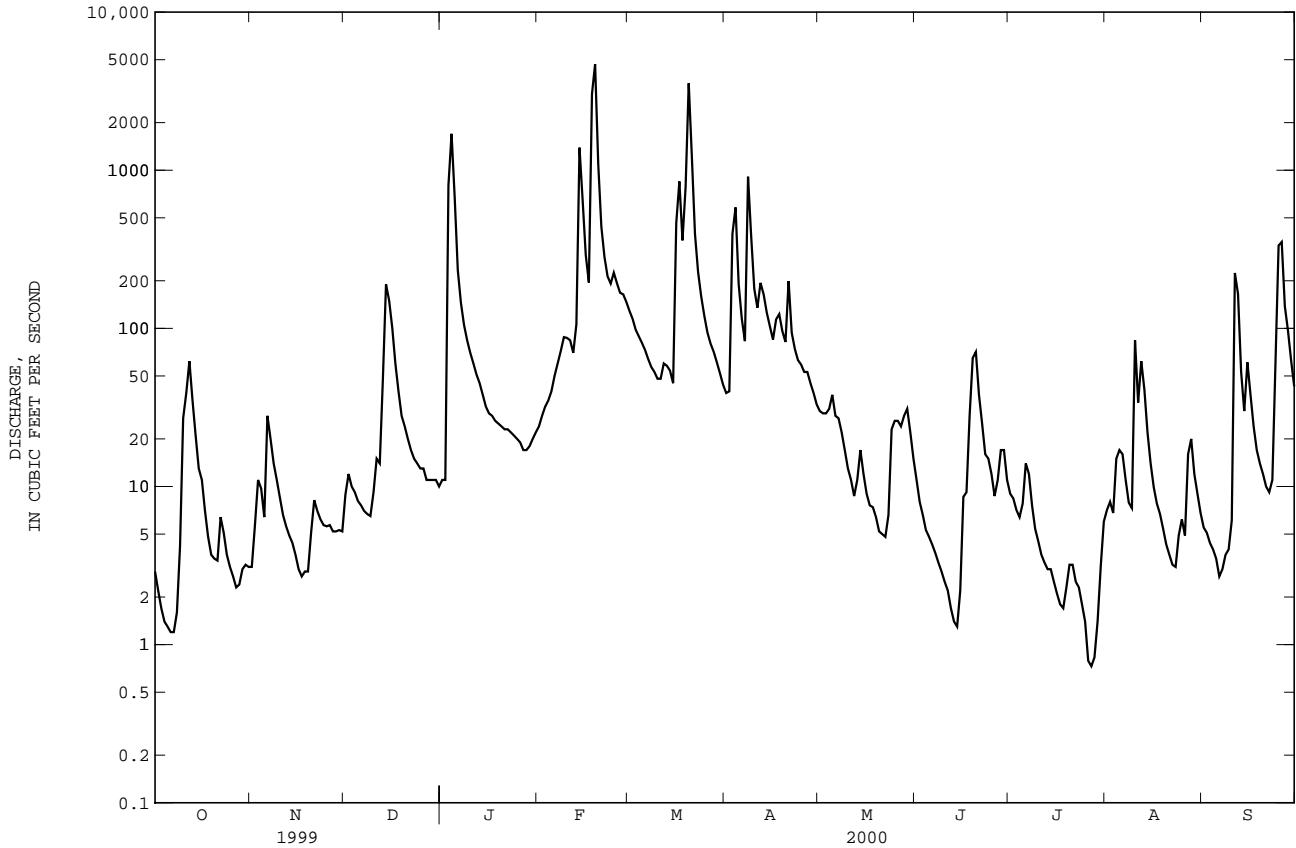
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2000, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	55.3	143	339	469	441	586	213	309	302	146	53.6	52.5
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	143	149	99.9	71.4	18.4	13.8	4.29	.53	.46
(WY)	1995	2000	2000	2000	1996	1990	1997	2000	2000	2000	1999	1999

03295400 SALT RIVER AT GLENSBORO, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1989 - 2000	
ANNUAL TOTAL	53639.98		37825.35		258	
ANNUAL MEAN	147		103		403	
HIGHEST ANNUAL MEAN					103	
LOWEST ANNUAL MEAN					16400	
HIGHEST DAILY MEAN	4900	Jan 9	4690	Feb 19		Mar 2 1997
LOWEST DAILY MEAN	.00	Aug 5	.73	Jul 27	.00	Aug 5 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 6	1.3	Jul 23	.00	Sep 6 1999
INSTANTANEOUS PEAK FLOW			10400		22000	
INSTANTANEOUS PEAK STAGE			10.32		12.91	
ANNUAL RUNOFF (CFSM)	.85		.60		1.50	
ANNUAL RUNOFF (INCHES)	11.60		8.18		20.38	
10 PERCENT EXCEEDS	356		182		552	
50 PERCENT EXCEEDS	17		16		76	
90 PERCENT EXCEEDS	.26		3.0		4.9	

e Estimated



SALT RIVER BASIN

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 mi².

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 ft³/s and those estimated, which are poor.

COOPERATION.--City of Simpsonville.

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	.15	e1.0	e8.0	45	18	8.8	2.9	6.2	1.0	3.7
2	.00	.00	.74	1.5	7.9	36	42	9.2	1.7	3.6	.68	3.6
3	.00	.00	.87	1330	7.6	32	222	7.7	.90	2.1	.32	3.4
4	.00	.00	.87	2240	9.1	30	513	6.5	.38	1.8	.13	3.1
5	.00	.00	.92	240	9.5	25	180	6.7	.34	115	.05	3.0
6	.00	.00	.84	127	9.8	22	110	5.5	.40	78	.03	3.0
7	.00	.00	.71	83	11	19	77	4.6	.25	32	.01	3.0
8	.00	.00	.57	59	14	17	459	4.0	.21	17	.02	3.4
9	.00	.00	.67	50	16	15	195	3.1	.15	11	.13	3.3
10	.00	.00	1.4	42	17	13	119	3.9	.10	7.4	.25	3.2
11	.00	.00	.70	31	16	14	86	3.1	.08	5.9	.60	4.0
12	.00	.00	1.4	24	13	22	69	2.4	.04	5.1	7.2	6.7
13	.00	.00	4.4	23	70	15	53	4.3	.00	4.5	4.6	8.6
14	.00	.00	220	19	1320	13	45	5.4	.03	4.0	2.5	8.5
15	.00	.00	54	17	260	12	38	4.2	.12	3.7	1.3	5.8
16	.00	.00	19	16	144	401	31	2.9	.18	2.6	.56	4.0
17	.00	.00	9.6	14	91	332	39	2.3	.23	2.0	.26	2.6
18	.00	.00	6.0	e13	3830	142	49	2.1	.60	1.8	62	1.8
19	.00	.00	4.1	e13	2210	218	35	4.0	23	2.4	28	1.4
20	.00	.35	3.8	e12	313	1160	30	5.1	15	2.9	8.2	.61
21	.00	.42	4.2	e12	176	344	29	4.1	23	3.1	3.9	1.1
22	.00	.34	3.4	e11	128	179	27	4.9	32	2.3	2.2	1.0
23	.00	.35	2.5	e11	96	119	23	6.5	12	1.8	2.1	2.0
24	.00	.43	e2.2	e11	85	88	20	4.2	5.7	1.2	3.4	4.6
25	.00	.52	e1.9	e10	70	67	22	2.1	3.5	.86	3.3	95
26	.00	.73	e1.7	e10	58	51	17	1.1	12	.44	2.6	159
27	.00	.59	e1.5	e9.9	65	47	14	1.0	33	.21	2.5	48
28	.00	.59	e1.4	e9.4	58	37	13	15	63	.10	3.3	22
29	.00	.59	e1.3	e9.0	50	28	11	27	27	.24	4.3	14
30	.00	.57	e1.2	e8.6	---	23	9.7	9.5	12	1.7	4.3	10
31	.00	---	e1.1	e8.0	---	20	---	5.0	---	1.1	3.9	---
TOTAL	0.00	5.48	353.14	4465.4	9162.9	3586	2595.7	176.2	269.81	322.05	153.64	433.41
MEAN	.000	.18	11.4	144	316	116	86.5	5.68	8.99	10.4	4.96	14.4
MAX	.00	.73	220	2240	3830	1160	513	27	63	115	62	159
MIN	.00	.00	.15	1.0	7.6	12	9.7	1.0	.00	.10	.01	.61

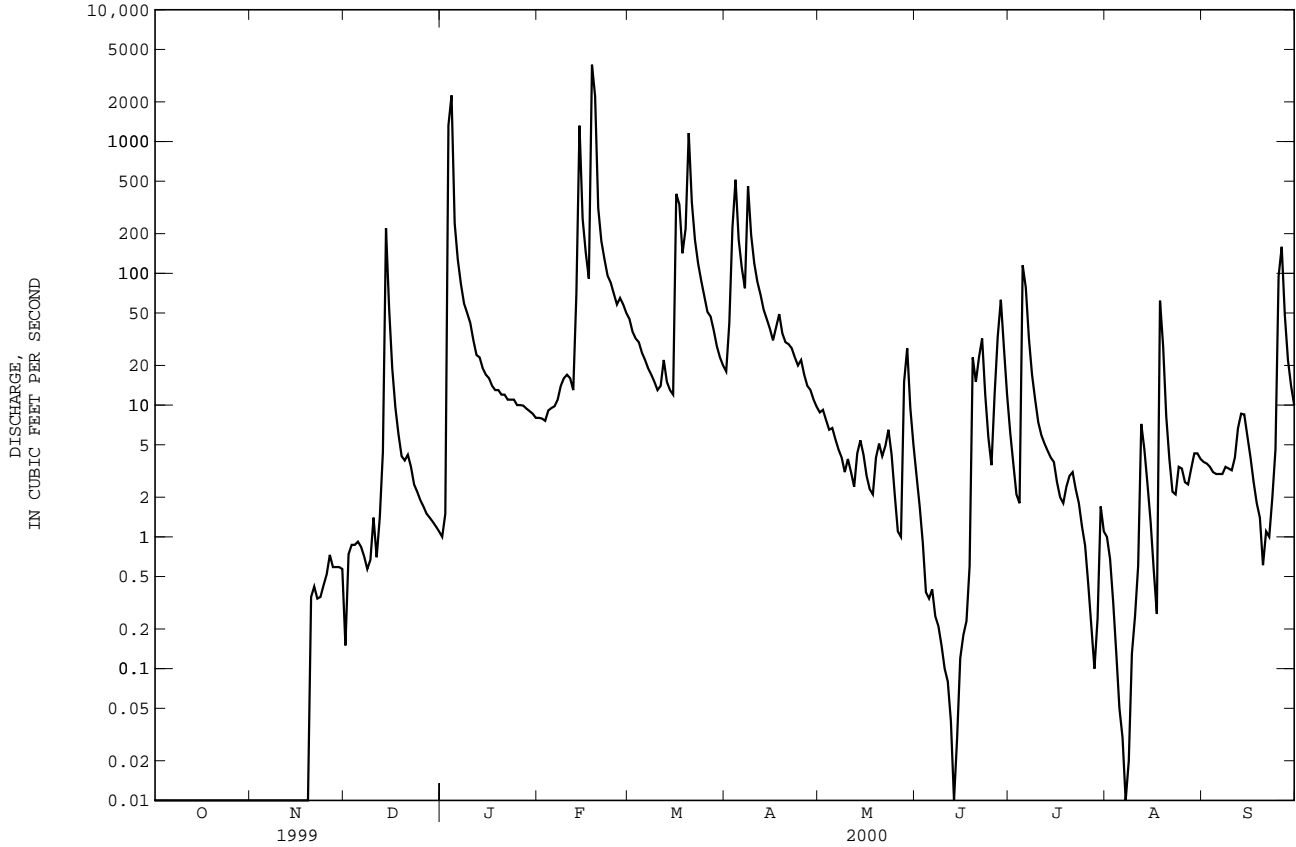
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

	1998	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000	1999
MEAN	.15	.52	8.29	129	194	120	57.4	43.1	113	23.1	3.55	4.84
MAX	.30	.86	11.4	144	316	125	86.5	121	293	54.1	5.71	14.4
(WY)	1999	1999	2000	2000	2000	1999	2000	1998	1998	1998	1998	2000
MIN	.000	.18	5.20	115	67.4	116	28.4	2.61	8.99	4.83	.000	.000
(WY)	2000	2000	1999	1999	1999	2000	1999	1999	2000	1999	1999	1999

03295702 BULLSKIN CREEK NEAR SIMPSONVILLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	11817.44		21523.73			
ANNUAL MEAN	32.4		58.8		45.4	
HIGHEST ANNUAL MEAN					58.8	
LOWEST ANNUAL MEAN					31.9	
HIGHEST DAILY MEAN	870	Jan 23	3830	Feb 18	3830	Feb 18 2000
LOWEST DAILY MEAN	.00	Jul 29	.00	Oct 1	.00	Aug 25 1998
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 29	.00	Oct 1	.00	Sep 5 1998
INSTANTANEOUS PEAK FLOW			8990	Feb 18	5350	Jun 22 1998
INSTANTANEOUS PEAK STAGE			21.05	Feb 18	15.39	Jun 22 1998
10 PERCENT EXCEEDS	92		84		110	
50 PERCENT EXCEEDS	1.2		4.1		4.0	
90 PERCENT EXCEEDS	.00		.00		.00	

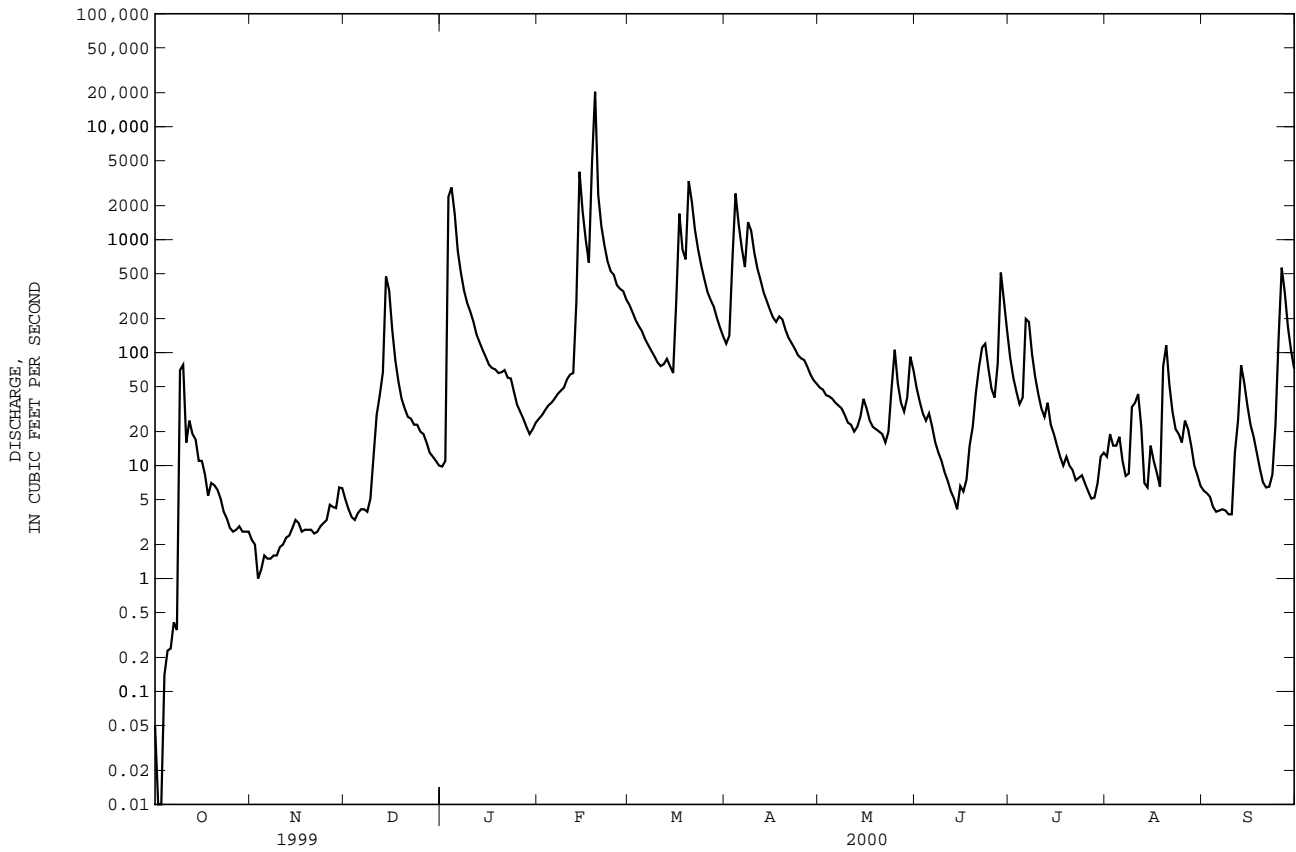
e Estimated



03295890 BRASHEARS CREEK AT TAYLORSVILLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1981 - 2000	
ANNUAL TOTAL	89602.93		89026.22			
ANNUAL MEAN	245		243		337	
HIGHEST ANNUAL MEAN					642 1997	
LOWEST ANNUAL MEAN					201 1988	
HIGHEST DAILY MEAN	6200	Jan 23	20400	Feb 19	39600	Mar 2 1997
LOWEST DAILY MEAN	.00	Oct 2	.00	Oct 2	.00	Aug 19 1983
ANNUAL SEVEN-DAY MINIMUM	.10	Sep 28	.15	Oct 1	.00	Aug 19 1983
INSTANTANEOUS PEAK FLOW			29200	Feb 19	44800	Mar 2 1997
INSTANTANEOUS PEAK STAGE			28.17	Feb 19	31.54	Mar 2 1997
INSTANTANEOUS LOW FLOW					.08	Oct 1 1994
ANNUAL RUNOFF (CFSM)	.95		.94		1.30	
ANNUAL RUNOFF (INCHES)	12.87		12.79		17.67	
10 PERCENT EXCEEDS	701		477		808	
50 PERCENT EXCEEDS	21		29		84	
90 PERCENT EXCEEDS	.55		3.0		1.6	

e Estimated



SALT RIVER BASIN

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 mi².

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 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 4	0400	7,990	20.65	Feb 18	2300	*13,700	*25.62

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	.15	e.56	e3.5	e3.3	e15	e70	31	8.2	7.7	1.6	3.0	2.7
2	.18	e4.8	e2.8	14	e14	e58	91	9.9	7.2	.48	1.2	3.2
3	.21	e3.5	e2.3	2340	e13	e49	189	11	7.7	.38	.67	3.4
4	.13	e2.6	e2.0	3310	e13	e44	427	13	7.9	59	.47	3.3
5	e.17	1.8	e2.8	247	e12	e40	185	14	11	256	.16	3.8
6	e.10	1.3	e4.5	143	e11	e37	114	12	9.2	81	.20	3.7
7	e.06	2.0	6.6	88	e11	e34	79	17	6.7	5.8	.17	3.6
8	e.04	3.4	6.2	e75	e10	e31	389	17	4.8	2.1	.67	3.4
9	e.60	3.5	6.0	e67	e10	e29	195	16	3.2	.74	3.3	3.6
10	e4.0	3.6	29	e61	e9.8	e26	128	16	2.3	.03	5.9	3.9
11	1.5	3.7	e14	e56	e9.4	e24	90	19	1.5	.16	2.1	9.3
12	1.1	3.8	e50	e50	50	42	79	20	1.1	.92	1.0	15
13	.83	3.8	332	e47	273	37	63	41	1.1	.98	.75	8.2
14	.79	3.7	777	e43	1720	32	56	20	1.8	.86	.55	5.9
15	.68	3.4	59	e40	248	29	50	13	2.5	1.0	.31	4.1
16	.64	3.4	16	e37	155	583	44	8.5	3.4	1.0	.10	2.8
17	.73	3.4	11	e35	94	333	45	7.4	8.6	.78	.00	2.3
18	.89	3.4	8.3	e32	5190	172	53	7.4	98	.66	147	1.9
19	.86	3.3	7.1	e30	3890	285	43	17	100	1.0	13	1.7
20	1.5	3.7	e6.2	e28	282	1160	36	16	7.0	2.2	3.7	1.5
21	1.9	4.4	e5.6	e26	192	290	33	12	29	1.5	2.1	2.0
22	2.1	5.0	e5.0	e25	149	187	31	10	18	.95	1.3	2.8
23	2.3	4.9	e4.7	e23	107	130	26	11	4.1	.57	1.6	3.0
24	2.8	4.8	e4.5	e22	89	95	23	11	2.6	.25	3.2	3.9
25	e1.6	4.6	e4.3	e21	86	75	23	8.9	7.3	.23	2.7	304
26	e.86	6.1	e4.2	e21	85	61	19	9.6	3.7	.33	1.4	267
27	e1.1	7.3	e4.0	e19	100	61	15	14	138	.26	1.3	103
28	e1.5	6.1	e3.8	e18	86	50	13	24	187	.42	1.7	61
29	e1.1	5.0	e3.7	e17	82	42	11	24	12	1.0	2.3	44
30	e.86	4.4	e3.6	e16	---	37	9.3	12	3.8	1.1	2.7	35
31	e.68	---	e3.4	e15	---	33	---	8.7	---	1.1	2.7	---
TOTAL	31.96	115.26	1393.1	6969.3	13006.2	4176	2590.3	448.6	698.2	424.40	207.25	913.0
MEAN	1.03	3.84	44.9	225	448	135	86.3	14.5	23.3	13.7	6.69	30.4
MAX	4.0	7.3	777	3310	5190	1160	427	41	187	256	147	304
MIN	.04	.56	2.0	3.3	9.4	24	9.3	7.4	1.1	.03	.00	1.5
CFSM	.01	.05	.56	2.81	5.61	1.69	1.08	.18	.29	.17	.08	.38
IN.	.01	.05	.65	3.24	6.06	1.94	1.21	.21	.33	.20	.10	.43

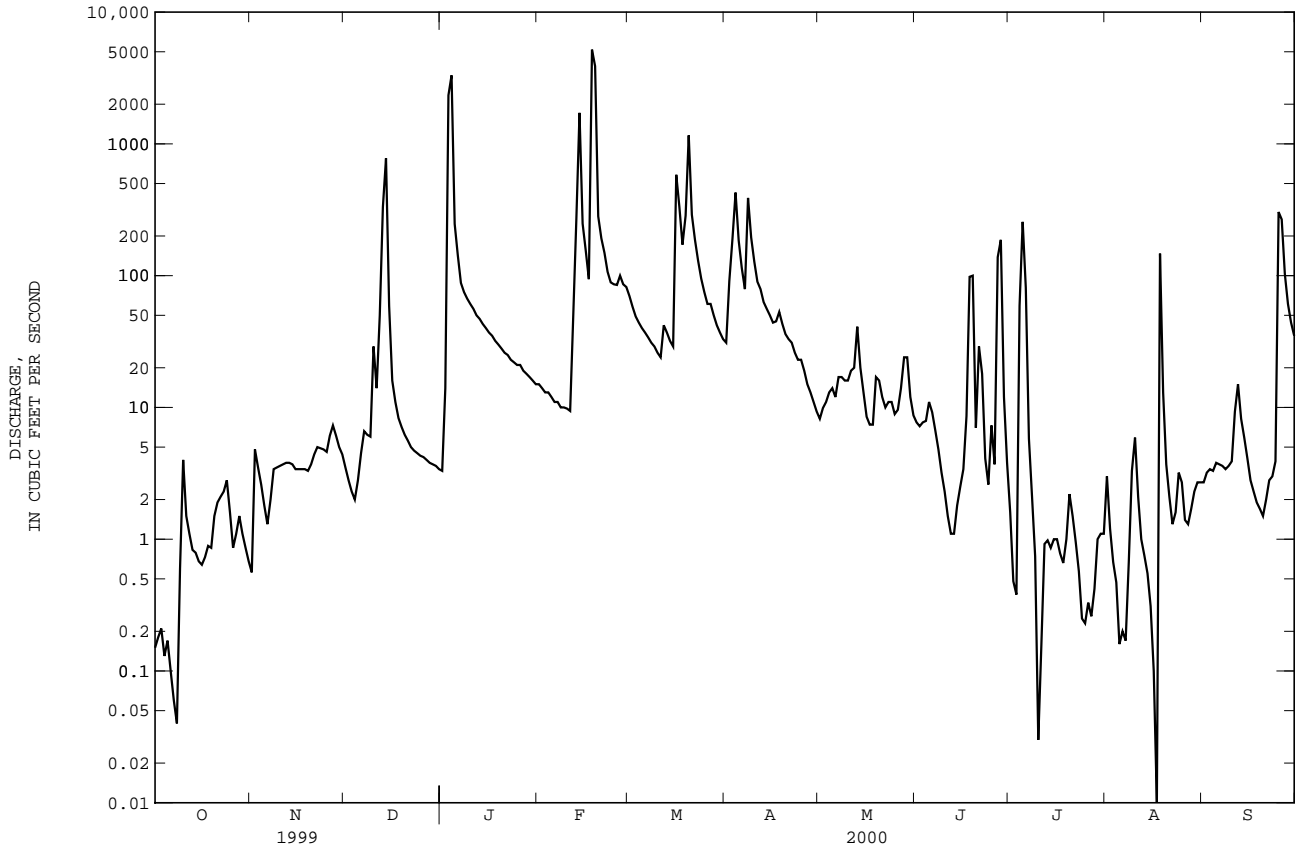
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2000, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	10.8	41.8	104	225	185	270	133	138	123	28.8
MAX	26.3	118	331	320	448	958	306	398	381	66.7
(WY)	1994	1994	1997	1996	2000	1997	1996	1995	1997	1995
MIN	1.03	3.14	35.8	127	43.3	103	37.3	12.1	4.07	1.89
(WY)	2000	1992	1999	1992	1992	1995	1995	1999	1991	1991

03297900 FLOYDS FORK NEAR PEWEE VALLEY, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1991 - 2000	
ANNUAL TOTAL	22261.05		30973.57		110	
ANNUAL MEAN	61.0		84.6		198	
HIGHEST ANNUAL MEAN					1997	
LOWEST ANNUAL MEAN					62.0	
HIGHEST DAILY MEAN	1360	Feb 1	5190	Feb 18	10500	Mar 2 1997
LOWEST DAILY MEAN	.00	Sep 2	.00	Aug 17	.00	Sep 2 1999
ANNUAL SEVEN-DAY MINIMUM	.01	Sep 23	.13	Oct 2	.01	Sep 23 1999
INSTANTANEOUS PEAK FLOW			13700	Feb 18	18800	Mar 2 1997
INSTANTANEOUS PEAK STAGE			25.62	Feb 18	28.60	Mar 2 1997
ANNUAL RUNOFF (CFSM)	.76		1.06		1.38	
ANNUAL RUNOFF (INCHES)	10.36		14.42		18.71	
10 PERCENT EXCEEDS	174		109		202	
50 PERCENT EXCEEDS	6.6		7.8		24	
90 PERCENT EXCEEDS	.20		.75		1.3	

e Estimated



SALT RIVER BASIN

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 mi².

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 good except for discharges below 2.0 ft³/s, 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 4	0140	11,700	12.97	Feb 18	2145	*18,000	*14.48

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	.39	3.1	6.1	e1.6	e16	113	47	23	12	37	2.8	.53
2	1.2	5.1	3.2	40	e18	97	125	21	7.4	21	9.4	.33
3	1.1	14	1.9	3480	e21	83	428	19	10	12	5.5	.45
4	.79	16	1.6	5610	e25	77	898	22	6.9	291	2.5	.61
5	.98	19	2.8	538	e29	69	380	22	3.9	690	1.5	.86
6	.75	25	7.7	195	e35	58	230	23	3.9	361	1.1	1.0
7	.40	19	12	137	e40	53	163	34	2.8	127	1.1	.92
8	.30	17	8.6	121	e45	48	942	26	1.4	56	6.9	1.2
9	43	14	8.3	95	e50	45	428	21	.97	32	18	1.1
10	52	14	83	86	56	41	259	18	.70	20	26	1.5
11	21	10	78	67	62	41	189	14	1.0	14	35	17
12	4.8	9.1	81	46	56	71	159	14	.75	9.4	11	76
13	1.7	7.3	593	44	291	67	124	30	.36	8.3	3.2	51
14	3.6	6.5	1400	54	2700	54	107	61	.84	6.0	3.0	19
15	3.1	6.5	247	45	500	48	96	31	9.3	5.7	3.4	11
16	1.3	6.9	85	40	196	1030	84	22	6.4	4.3	1.0	4.3
17	.76	6.9	44	41	104	814	94	14	23	3.1	.82	1.8
18	.53	7.4	27	43	7310	346	106	9.8	94	1.8	414	.85
19	.71	6.5	17	43	7590	497	87	9.5	331	1.7	118	1.2
20	.96	8.8	17	50	668	1990	70	30	93	6.7	35	1.8
21	1.8	16	21	44	404	672	62	23	142	5.4	16	16
22	3.0	19	15	e35	284	379	58	19	131	3.3	8.1	8.4
23	3.0	18	8.9	e27	213	255	51	56	50	3.9	5.9	3.8
24	2.2	17	6.9	e21	179	192	47	74	23	2.9	40	16
25	1.9	17	4.6	e18	153	150	49	29	19	1.6	20	506
26	1.6	22	3.8	e15	122	115	44	18	157	.56	10	662
27	2.7	27	e2.7	e13	186	112	37	35	276	.26	5.3	170
28	3.3	25	e2.5	e11	181	99	32	111	489	.15	3.7	73
29	3.0	20	e2.1	e9.8	132	76	29	71	152	.38	1.9	43
30	3.4	11	e1.9	e11	---	62	26	35	66	11	1.0	29
31	3.2	---	e1.7	e13	---	53	---	20	---	6.1	.76	---
TOTAL	168.47	414.1	2795.3	10994.4	21666	7807	5451	955.3	2114.62	1743.55	811.88	1719.65
MEAN	5.43	13.8	90.2	355	747	252	182	30.8	70.5	56.2	26.2	57.3
MAX	52	27	1400	5610	7590	1990	942	111	489	690	414	662
MIN	.30	3.1	1.6	1.6	16	41	26	9.5	.36	.15	.76	.33
CFSM	.04	.10	.65	2.57	5.41	1.82	1.32	.22	.51	.41	.19	.42
IN.	.05	.11	.75	2.96	5.84	2.10	1.47	.26	.57	.47	.22	.46

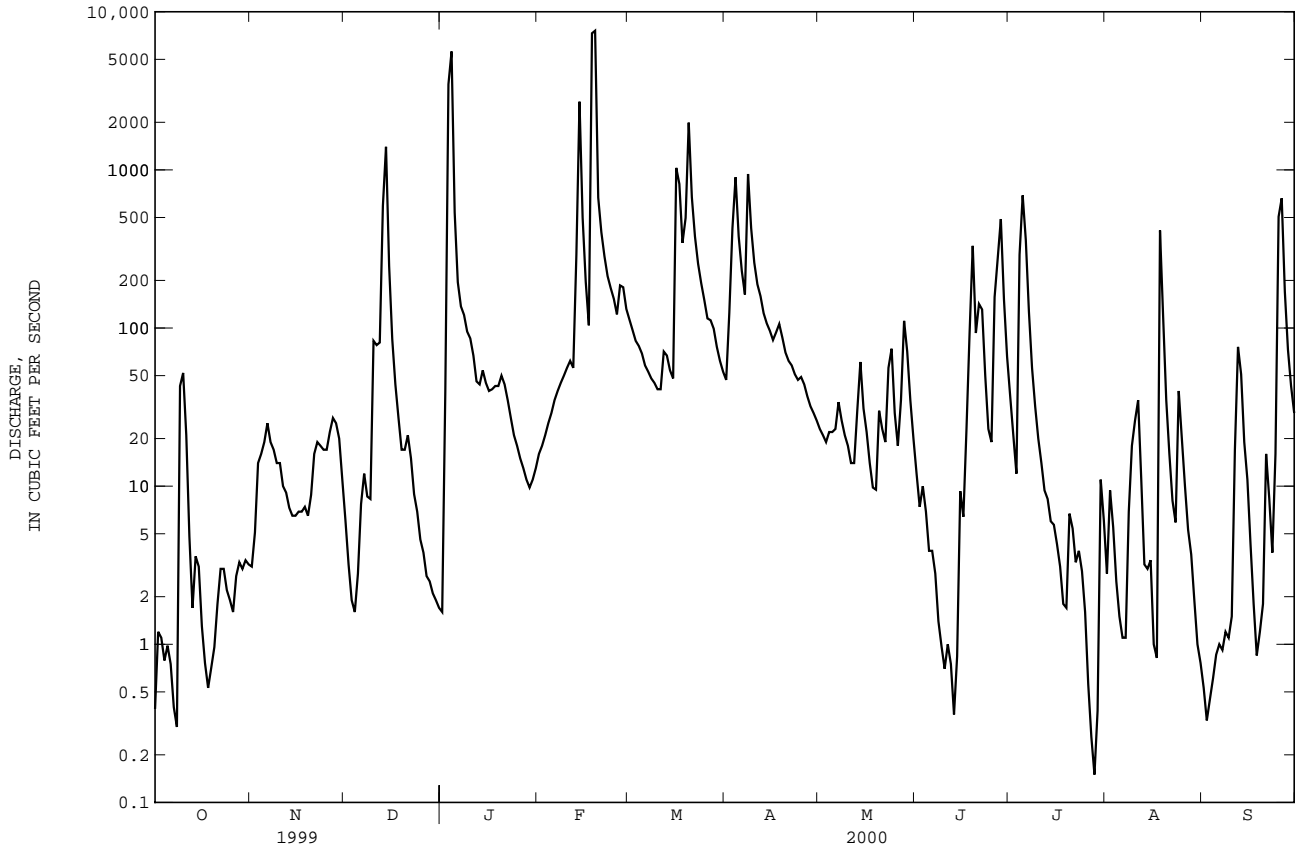
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2000, BY WATER YEAR (WY)

MEAN	32.0	103	226	298	368	403	277	208	128	64.0	44.1	39.3
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 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1944 - 2000	
ANNUAL TOTAL	43890.25	56641.27		
ANNUAL MEAN	120	155	182	
HIGHEST ANNUAL MEAN			382	1979
LOWEST ANNUAL MEAN			29.0	1954
HIGHEST DAILY MEAN	3450 Jan 23	7590 Feb 19	20000	Mar 2 1997
LOWEST DAILY MEAN	.00 Sep 9	.15 Jul 28	.00	Sep 7 1945
ANNUAL SEVEN-DAY MINIMUM	.00 Sep 9	.65 Aug 30	.00	Sep 7 1945
INSTANTANEOUS PEAK FLOW		18000 Feb 18	42100	Mar 2 1997
INSTANTANEOUS PEAK STAGE		14.48 Feb 18	17.39	Mar 2 1997
INSTANTANEOUS LOW FLOW			.00	Sep 7 1945
ANNUAL RUNOFF (CFSM)	.87	1.12	1.32	
ANNUAL RUNOFF (INCHES)	11.83	15.27	17.90	
10 PERCENT EXCEEDS	308	249	367	
50 PERCENT EXCEEDS	20	21	35	
90 PERCENT EXCEEDS	.44	1.2	.44	

e Estimated



SALT RIVER BASIN

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 mi².

PERIOD OF RECORD.--May 5, 1993 to February 26, 1998; January 19, 1999 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 1,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 3	2035	*2,460	*8.12	Feb 18	1845	1,280	6.33

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	.43	1.1	.23	1.3	1.6	2.7	2.9	2.2	.31	.28	1.7	.09
2	.19	8.1	.21	68	1.4	2.3	24	2.3	.55	.15	.22	.08
3	.16	1.5	.21	e150	1.3	2.3	23	6.1	.92	2.2	.08	.07
4	.19	1.0	.55	e40	1.5	2.1	e14	4.2	.38	10	2.2	.09
5	.24	.83	2.8	e17	1.3	1.8	e8.6	1.5	1.2	19	.14	.06
6	.21	.80	1.2	e11	1.3	1.7	5.4	1.4	.57	1.8	.26	.04
7	.18	.85	.59	e7.4	1.3	1.7	12	1.2	.41	.98	.07	.04
8	.40	.87	.47	e5.2	1.3	1.6	46	1.2	.39	.28	7.8	.04
9	55	.90	.41	e4.0	1.3	1.6	8.7	1.2	.38	.14	1.2	.04
10	6.9	.90	39	e3.0	1.3	1.5	6.4	1.3	.39	.09	.67	.04
11	2.2	.88	4.3	2.3	1.2	8.8	6.5	.88	.40	.13	.12	22
12	1.5	.89	48	2.1	1.0	3.2	5.0	.76	.41	.09	.07	15
13	1.1	.91	100	1.9	63	2.0	4.1	20	.36	.07	.05	1.4
14	.97	.94	28	1.7	32	1.8	3.7	1.9	8.8	.05	.04	.45
15	.90	.87	7.3	1.7	7.4	1.7	3.4	1.3	1.6	.04	.05	.27
16	.77	.91	3.9	1.5	4.7	83	3.3	1.1	.22	.03	.04	.13
17	.66	.92	2.6	1.4	6.2	14	11	1.0	25	.02	.03	.09
18	.59	.89	2.1	2.3	402	8.2	5.1	.94	25	.02	103	.08
19	.58	1.5	1.8	1.9	30	39	3.8	7.3	8.0	2.6	1.4	.06
20	.59	7.5	4.2	2.7	11	48	3.5	1.9	1.4	.12	.47	3.4
21	.57	1.9	2.0	1.8	7.1	13	3.2	1.2	13	.06	.18	3.5
22	.57	1.4	1.6	1.8	5.7	9.1	3.1	1.2	1.5	.06	.10	.31
23	.57	1.2	1.5	1.6	4.3	7.2	2.8	25	.52	.03	7.4	.64
24	.56	1.1	1.6	1.6	4.5	6.1	3.9	2.3	.37	.02	17	14
25	.54	1.8	1.8	1.5	3.2	5.0	3.1	.65	3.4	.02	1.3	79
26	.62	11	1.9	1.5	2.8	4.3	2.6	.35	7.5	.02	.63	7.6
27	.61	1.2	1.7	1.5	16	7.7	2.5	4.0	24	.02	1.0	2.5
28	.63	.64	1.4	1.5	4.0	4.2	2.5	9.1	3.1	7.6	.33	1.7
29	.90	.40	1.4	1.5	3.1	3.5	2.4	1.1	1.1	4.8	.19	1.4
30	.94	.27	1.4	1.8	---	3.2	2.3	.52	.48	.76	.10	1.2
31	.99	---	1.5	1.9	---	2.9	---	.33	---	10	.09	---
TOTAL	81.26	53.97	265.67	344.4	622.8	295.2	228.8	105.43	131.66	61.48	147.93	155.32
MEAN	2.62	1.80	8.57	11.1	21.5	9.52	7.63	3.40	4.39	1.98	4.77	5.18
MAX	55	11	100	150	402	83	46	25	25	19	103	79
MIN	.16	.27	.21	1.3	1.0	1.5	2.3	.33	.22	.02	.03	.04

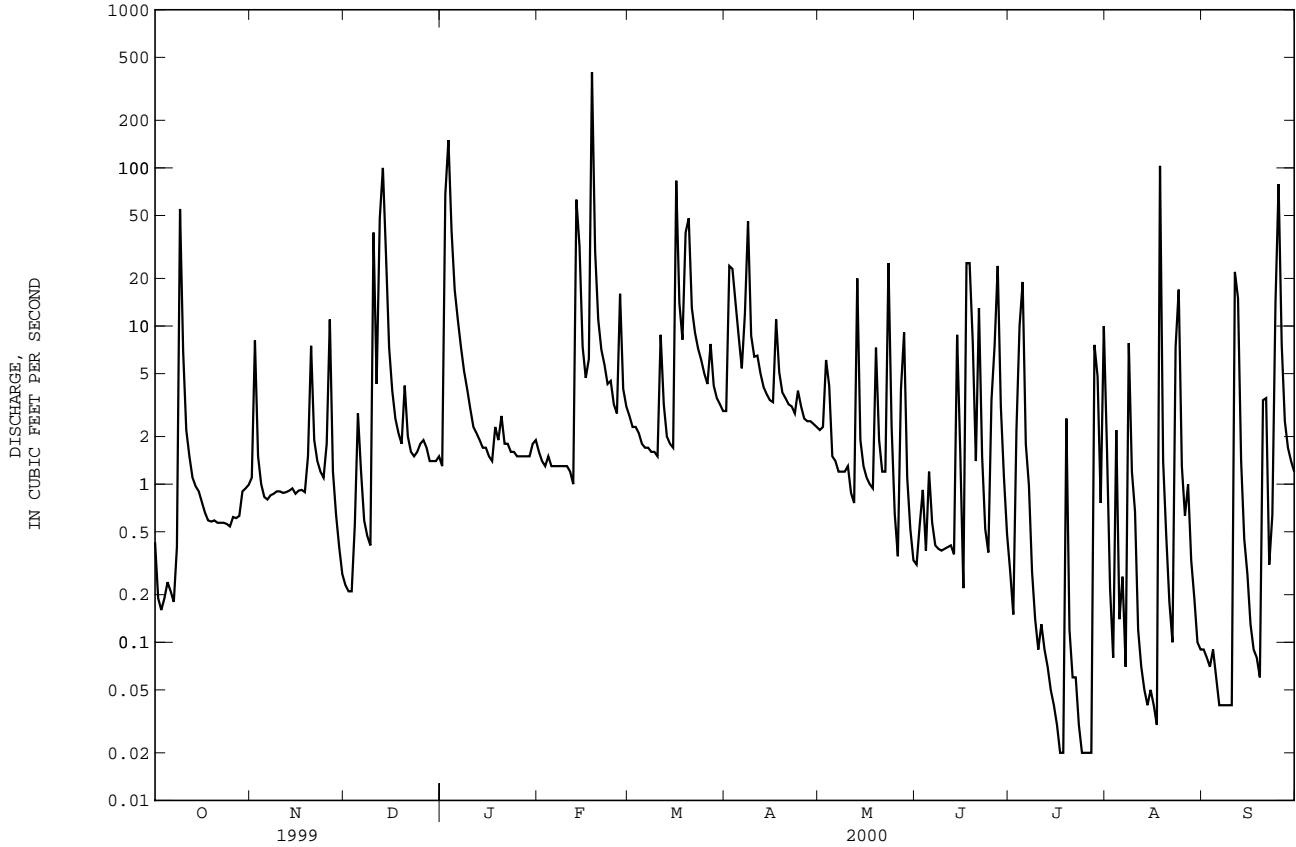
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	1999	2000	2000	2000	1999	2000	2000	2000	2000	1999	1999	1999
MEAN	2.62	1.80	8.57	11.1	15.8	10.3	9.81	4.05	8.33	1.39	2.62	2.74
MAX (WY)	2000	2000	2000	2000	2000	2000	1999	1999	1999	2000	2000	2000
MIN (WY)	2000	2000	2000	2000	1999	2000	2000	2000	2000	1999	1999	1999

03298135 CHENOWETH RUN AT RUCKRIEGAL PARKWAY NEAR JEFFERSONTOWN, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL			2493.92			
ANNUAL MEAN			6.81		6.81	
HIGHEST ANNUAL MEAN					6.81	2000
LOWEST ANNUAL MEAN					6.81	2000
HIGHEST DAILY MEAN	164	Apr 28	402	Feb 18	402	Feb 18 2000
LOWEST DAILY MEAN	.03	Aug 30	.02	Jul 17	.02	Jul 17 2000
ANNUAL SEVEN-DAY MINIMUM	.09	Aug 29	.03	Jul 21	.03	Jul 21 2000
INSTANTANEOUS PEAK FLOW			2460	Jan 3	4680	Mar 1 1997
INSTANTANEOUS PEAK STAGE			8.12	Jan 3	9.33	Mar 1 1997
10 PERCENT EXCEEDS	8.7		12		11	
50 PERCENT EXCEEDS	1.5		1.5		1.6	
90 PERCENT EXCEEDS	.19		.09		.14	

e Estimated



SALT RIVER BASIN

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 mi².

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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 13	1935	1,120	7.51	Jan 3	2140	*2,250	*10.23
Jan 2	2250	1,030	7.25	Feb 18	1920	2,020	9.73

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	4.5	5.1	4.7	7.8	6.3	4.8	12	13	5.0	6.7	18	11
2	4.2	17	5.0	99	5.7	3.8	44	12	4.8	5.1	7.5	11
3	3.9	6.5	4.6	590	6.0	3.5	54	16	7.3	9.7	6.0	10
4	4.4	5.4	5.2	153	6.7	3.1	e60	31	4.0	21	15	10
5	4.9	5.2	11	31	6.1	2.6	e32	17	6.6	44	7.5	11
6	4.4	5.2	8.9	20	5.9	2.3	26	13	4.5	18	7.4	11
7	4.8	5.2	6.2	15	6.2	2.3	24	12	3.8	12	6.4	10
8	4.9	5.5	4.9	13	6.3	2.1	157	11	3.4	7.6	19	11
9	80	5.9	4.3	12	6.2	2.0	42	10	5.0	6.0	15	11
10	20	5.8	59	10	6.3	1.9	34	11	3.5	5.6	10	11
11	7.8	6.0	13	8.1	6.2	9.4	31	8.9	5.1	5.9	7.0	50
12	5.8	5.9	72	7.2	5.5	4.8	28	7.2	6.1	5.7	5.5	52
13	5.3	5.8	210	7.2	145	2.6	24	44	4.3	5.7	4.7	25
14	4.8	5.8	80	6.1	137	2.3	22	13	17	5.1	5.3	17
15	4.6	5.9	29	5.9	45	2.1	20	9.2	12	4.2	5.5	13
16	4.2	6.2	18	5.6	35	195	19	8.2	4.6	3.7	5.2	13
17	4.2	6.0	13	5.7	29	44	34	7.8	53	4.0	4.3	12
18	4.5	5.9	9.5	7.7	905	29	26	6.4	59	3.9	145	11
19	4.6	6.2	7.7	7.4	89	75	24	16	35	13	23	11
20	4.3	18	14	9.1	25	160	24	8.8	16	6.1	15	26
21	4.5	7.0	9.3	6.9	15	49	22	6.5	45	5.1	13	33
22	4.4	5.9	7.3	6.0	11	37	21	6.3	19	4.6	12	16
23	4.3	5.5	6.4	6.1	8.1	31	18	52	10	4.1	27	17
24	4.2	5.3	6.6	6.0	8.3	27	21	21	7.4	3.9	46	45
25	4.5	5.0	7.2	7.7	6.0	23	20	11	16	3.0	21	157
26	4.6	25	6.5	5.3	4.7	20	17	10	21	3.0	16	31
27	4.9	8.4	7.0	6.7	24	26	16	15	68	2.9	18	15
28	4.8	6.0	6.3	8.2	8.3	20	14	25	30	20	15	9.9
29	5.3	5.5	6.0	5.2	6.0	16	14	11	16	23	13	7.6
30	5.3	4.9	5.8	6.2	---	14	13	6.9	10	11	13	3.1
31	5.1	---	8.2	6.3	---	13	---	5.6	---	21	12	---
TOTAL	238.0	217.0	656.6	1091.4	1574.8	828.6	913	445.8	502.4	294.6	538.3	671.6
MEAN	7.68	7.23	21.2	35.2	54.3	26.7	30.4	14.4	16.7	9.50	17.4	22.4
MAX	80	25	210	590	905	195	157	52	68	44	145	157
MIN	3.9	4.9	4.3	5.2	4.7	1.9	12	5.6	3.4	2.9	4.3	3.1

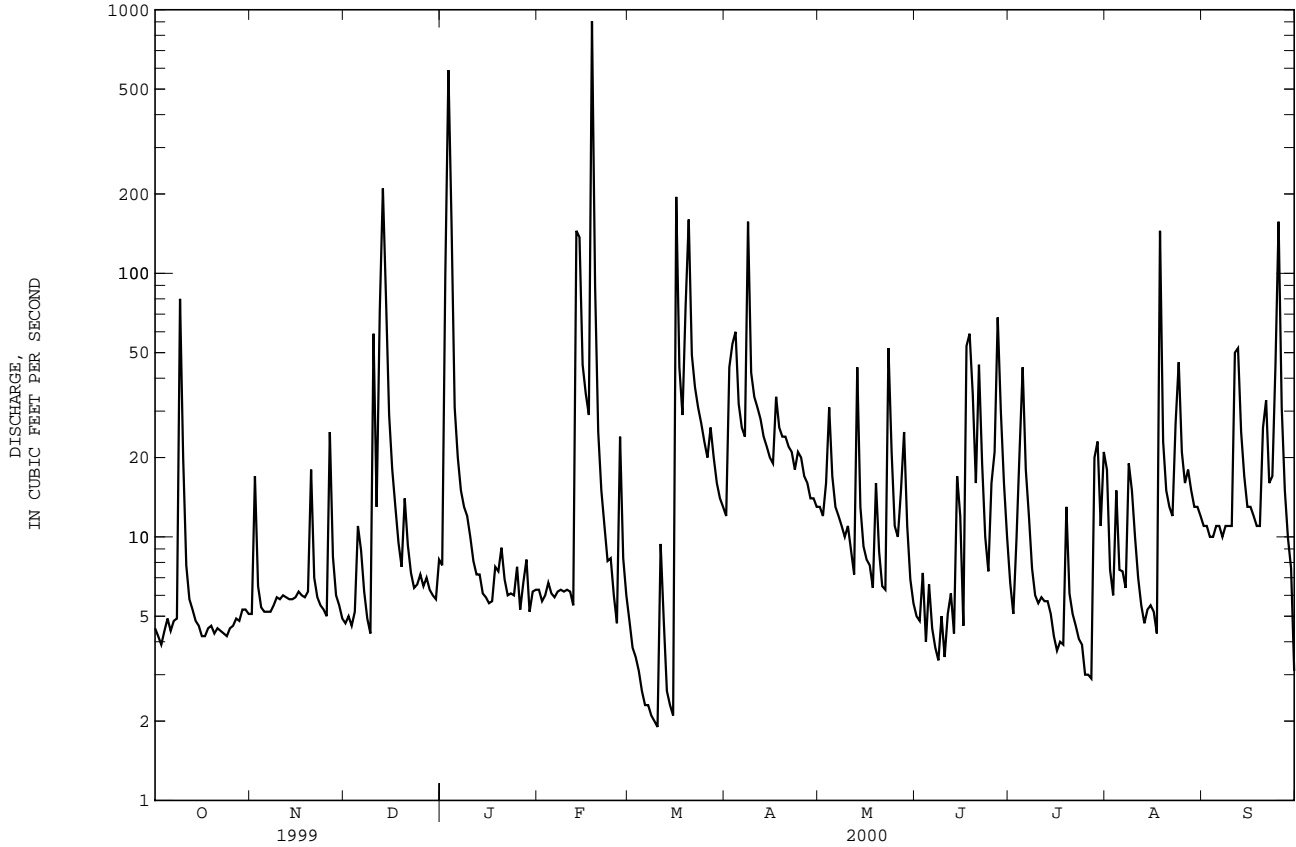
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

	1997	1998	1999	2000
MEAN	6.94	10.5	24.9	38.5
MAX	9.63	14.5	44.3	54.1
(WY)	1999	1997	1997	1999
MIN	3.81	7.23	15.6	31.9
(WY)	1998	2000	1999	1997

03298150 CHENOWETH RUN AT GELHAUS LANE NEAR FERN CREEK, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL TOTAL	7296.2		7972.1		24.0	
ANNUAL MEAN	20.0		21.8		32.3	
HIGHEST ANNUAL MEAN					19.9	
LOWEST ANNUAL MEAN					1999	
HIGHEST DAILY MEAN	431	Apr 28	905	Feb 18	1590	Mar 1 1997
LOWEST DAILY MEAN	2.0	Apr 25	1.9	Mar 10	1.9	Mar 10 2000
ANNUAL SEVEN-DAY MINIMUM	2.7	Jun 17	2.3	Mar 4	2.3	Mar 4 2000
INSTANTANEOUS PEAK FLOW			2250	Jan 3	4810	Mar 2 1997
INSTANTANEOUS PEAK STAGE			10.23	Jan 3	14.72	Mar 2 1997
10 PERCENT EXCEEDS	44		38		45	
50 PERCENT EXCEEDS	6.5		8.3		9.7	
90 PERCENT EXCEEDS	3.6		4.4		3.9	

e Estimated



SALT RIVER BASIN

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 mi².

PERIOD OF RECORD.--January 1999 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Records good.

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

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	2.1	3.8	3.0	6.1	6.0	14	8.8	6.0	3.8	6.7	7.0	2.2
2	1.9	3.6	2.9	11	5.7	11	21	6.2	3.9	5.8	3.7	2.6
3	2.0	4.4	2.9	418	6.0	10	45	6.0	3.4	6.6	3.1	2.7
4	2.2	4.0	2.8	222	6.4	10	61	8.4	3.2	6.1	3.7	2.4
5	2.1	3.9	3.3	41	6.2	9.0	e28	6.4	3.4	7.1	3.4	2.6
6	2.0	3.6	4.2	26	6.1	8.7	e20	6.0	3.5	6.6	3.2	2.3
7	2.0	3.9	3.4	18	6.2	9.0	e21	5.1	3.2	12	3.0	2.1
8	2.1	3.7	3.0	14	6.1	8.4	e80	4.8	3.0	4.8	2.6	2.0
9	24	3.8	2.8	13	5.9	8.0	e42	4.4	2.8	4.5	2.9	2.0
10	11	3.4	19	11	6.0	7.9	e24	4.5	2.7	4.3	2.6	2.1
11	4.6	3.1	7.5	9.8	6.0	9.9	e19	4.3	2.8	4.0	2.4	3.7
12	4.2	3.1	26	8.8	5.8	12	e16	4.3	2.7	4.4	2.2	6.7
13	2.4	3.5	105	7.8	58	9.4	e14	8.8	2.4	4.3	2.3	4.2
14	2.3	3.9	82	7.2	108	8.5	e12	5.8	5.7	3.5	2.3	3.0
15	2.5	4.0	18	7.0	34	8.2	11	4.9	6.6	2.8	2.3	2.5
16	2.7	3.3	11	7.0	22	109	9.5	4.6	3.5	2.6	1.8	2.3
17	2.7	2.8	7.6	6.8	16	49	12	4.4	71	2.8	1.9	2.2
18	2.7	2.8	6.6	7.6	583	29	11	4.2	43	4.0	9.0	2.3
19	2.5	3.0	6.0	7.3	98	50	9.6	4.1	22	4.4	3.9	2.0
20	2.5	3.5	6.8	7.9	40	124	9.5	3.7	9.5	3.8	3.1	11
21	2.4	3.8	6.5	8.0	28	44	8.4	3.6	32	3.3	2.8	18
22	2.3	3.7	6.0	7.2	22	30	7.8	3.4	16	2.8	2.4	4.1
23	2.3	3.2	5.9	6.9	17	23	7.3	7.5	8.8	2.5	2.6	8.2
24	2.5	3.0	6.2	6.5	22	19	7.0	7.1	7.0	2.7	6.2	57
25	2.6	3.0	7.4	9.0	18	16	6.9	4.6	7.7	2.7	3.9	122
26	2.6	5.1	5.8	6.1	15	14	6.5	4.1	27	2.5	3.1	31
27	2.8	4.6	6.2	11	31	16	6.9	5.0	71	2.5	3.3	8.6
28	2.8	3.8	5.8	11	22	13	6.1	7.4	30	24	3.3	6.1
29	3.2	3.6	5.6	5.7	17	11	6.3	5.9	14	8.4	2.7	5.3
30	3.5	3.2	5.9	5.9	---	11	6.1	4.8	8.2	6.3	2.4	4.6
31	3.8	---	6.1	6.1	---	9.0	---	4.2	---	4.8	2.2	---
TOTAL	111.3	108.1	391.2	940.7	1223.4	711.0	543.7	164.5	423.8	163.6	101.3	327.8
MEAN	3.59	3.60	12.6	30.3	42.2	22.9	18.1	5.31	14.1	5.28	3.27	10.9
MAX	24	5.1	105	418	583	124	80	8.8	71	24	9.0	122
MIN	1.9	2.8	2.8	5.7	5.7	7.9	6.1	3.4	2.4	2.5	1.8	2.0
CFM	.32	.32	1.14	2.73	3.80	2.07	1.63	.48	1.27	.48	.29	.98
IN.	.37	.36	1.31	3.15	4.10	2.38	1.82	.55	1.42	.55	.34	1.10

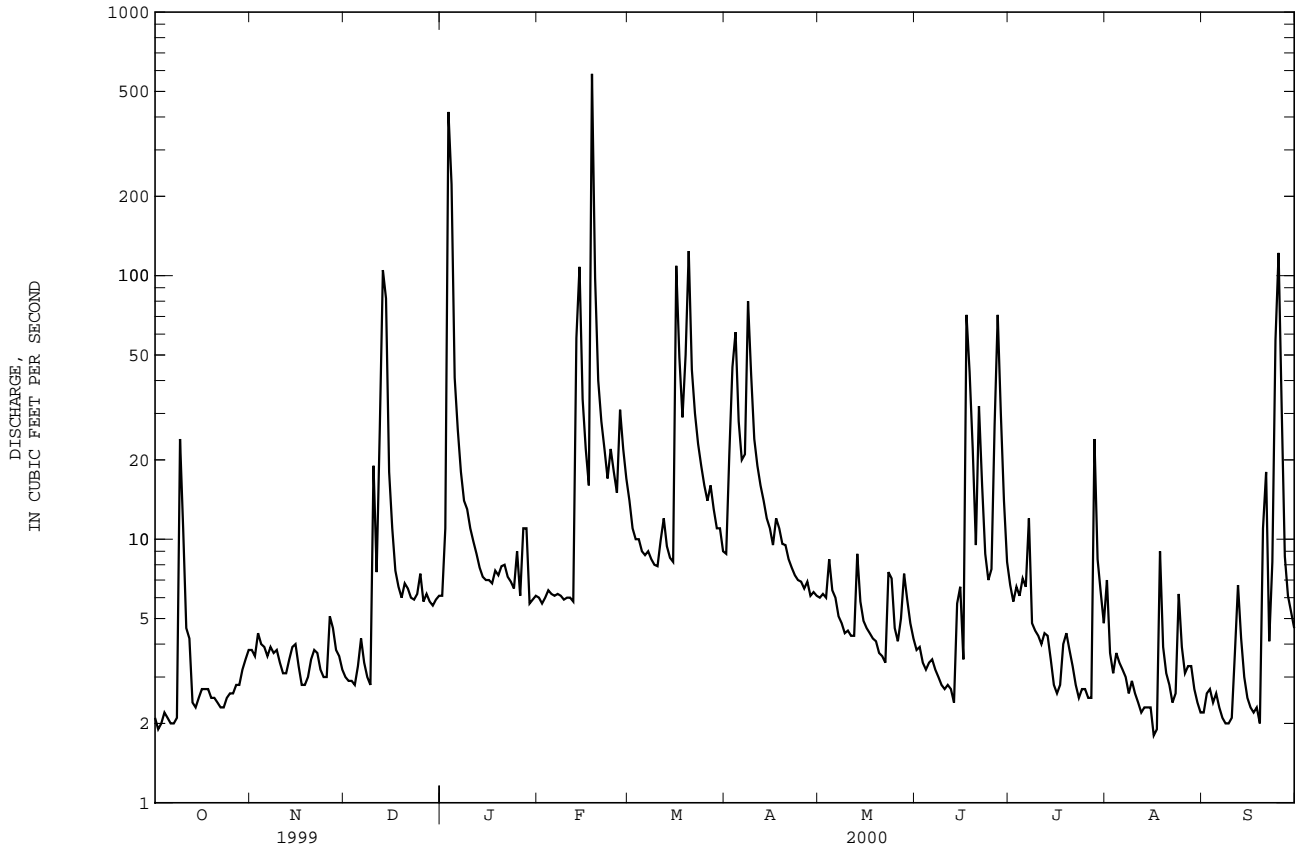
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2000, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	6.27	9.57	18.8	33.5	41.0	21.4	23.8	17.8	17.2	7.50	3.86	4.59	
MAX	15.4	15.5	43.5	50.9	69.1	31.3	34.4	53.4	32.2	18.6	6.44	10.9	
(WY)	1991	1989	1991	1999	1989	1989	1989	1990	1999	1989	1989	2000	
MIN	1.32	3.60	5.21	21.2	21.8	13.4	18.1	5.31	1.70	3.54	2.55	1.47	
(WY)	1989	2000	1990	1990	1991	1990	2000	2000	1988	1990	1988	1988	

03298250 CEDAR CREEK AT THIXTON ROAD NEAR LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1988 - 2000	
ANNUAL TOTAL	5960.3		5210.4		17.3	
ANNUAL MEAN	16.3		14.2		20.4	
HIGHEST ANNUAL MEAN					14.2	
LOWEST ANNUAL MEAN					2000	
HIGHEST DAILY MEAN	613	Jun 28	583	Feb 18	613	Jun 28 1999
LOWEST DAILY MEAN	1.7	Sep 17	1.8	Aug 16	.99	Jun 29 1988
ANNUAL SEVEN-DAY MINIMUM	1.9	Sep 22	2.0	Oct 1	.99	Jun 29 1988
INSTANTANEOUS PEAK FLOW			2310	Jan 3	3300	Jun 28 1999
INSTANTANEOUS PEAK STAGE			5.07	Jan 3	6.07	Jun 28 1999
ANNUAL RUNOFF (CFSM)	1.47		1.28		1.56	
ANNUAL RUNOFF (INCHES)	19.98		17.46		21.23	
10 PERCENT EXCEEDS	33		25		37	
50 PERCENT EXCEEDS	4.9		5.9		5.8	
90 PERCENT EXCEEDS	2.3		2.5		1.6	

e Estimated



SALT RIVER BASIN

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 mi².

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.

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	1.0	.39	.22	1.8	1.4	7.1	3.0	1.2	.54	1.7	1.8	e.52
2	.80	.85	.22	9.1	1.3	5.9	9.0	1.2	.52	1.0	.98	e.57
3	e.68	.51	.20	237	1.7	5.4	17	.94	.42	1.6	.70	.62
4	e.56	e.63	.23	109	2.1	5.2	24	1.3	.44	1.7	.56	.68
5	e.46	e.74	.31	16	1.8	4.4	11	1.1	.45	2.7	.50	e.63
6	e.41	e.91	.24	9.3	1.5	3.6	e9.0	.84	.41	1.7	.50	e.57
7	.37	e.81	.21	6.7	1.5	3.0	e16	.77	.41	.99	.47	e.52
8	.32	e.71	.20	5.5	1.5	3.0	34	.69	.42	.61	.48	e.49
9	6.8	e.63	.20	5.3	1.5	2.9	14	.61	.39	.50	.47	e.70
10	.95	e.56	2.0	4.7	1.7	2.4	9.9	.58	.41	.45	.48	1.0
11	.48	e.50	.37	3.4	1.7	3.4	8.3	.53	.42	.45	.44	1.7
12	.40	e.45	4.5	2.7	1.4	3.8	7.0	.51	.40	.77	.44	.77
13	.39	e.41	37	2.6	37	2.8	5.8	1.7	.39	1.8	.45	.58
14	.41	e.36	45	1.9	64	2.6	5.1	1.1	1.4	.65	.46	.55
15	.41	e.32	9.3	2.2	16	2.5	4.6	.66	.52	.54	.46	.56
16	.43	e.31	4.9	2.0	10	56	4.0	.54	.44	.45	.47	.56
17	.42	.30	e3.0	1.9	7.8	25	5.2	.51	28	.41	.46	.58
18	.41	.31	e2.2	3.2	353	13	4.4	.48	24	.40	.95	.56
19	.39	.32	1.7	2.7	82	23	3.6	.60	10	.72	.43	.52
20	.38	.51	2.7	3.5	24	62	3.5	.54	3.8	.44	.44	2.7
21	.36	.39	e2.3	2.6	16	22	3.2	.51	9.7	.43	.41	1.2
22	.36	.37	2.1	2.6	13	14	2.6	.49	5.3	.41	.40	.48
23	.36	.32	1.8	2.6	10	11	2.3	1.3	2.4	.38	.62	1.4
24	.37	.27	2.4	2.3	12	8.5	2.7	1.3	1.2	.36	2.7	18
25	.37	.26	2.0	1.9	9.6	7.3	2.7	1.2	1.4	.36	.57	38
26	.40	.53	1.8	1.5	7.9	6.4	2.2	1.0	11	.37	.51	13
27	.37	.29	e1.7	1.2	16	7.2	1.6	1.7	20	.36	.58	4.0
28	.37	.25	e1.6	1.1	11	5.7	1.5	1.9	12	13	.48	2.1
29	.37	.23	e1.5	1.4	8.4	4.3	1.3	1.5	5.3	6.0	.45	1.3
30	.38	.21	e1.4	1.6	---	3.7	1.2	.93	2.8	3.5	.44	.89
31	.39	---	e1.3	1.5	---	3.2	---	.77	---	2.0	.48	---
TOTAL	20.57	13.65	134.60	450.8	716.8	330.3	219.7	29.00	144.88	46.75	19.58	95.75
MEAN	.66	.45	4.34	14.5	24.7	10.7	7.32	.94	4.83	1.51	.63	3.19
MAX	6.8	.91	45	237	353	62	34	1.9	28	13	2.7	38
MIN	.32	.21	.20	1.1	1.3	2.4	1.2	.48	.39	.36	.40	.48

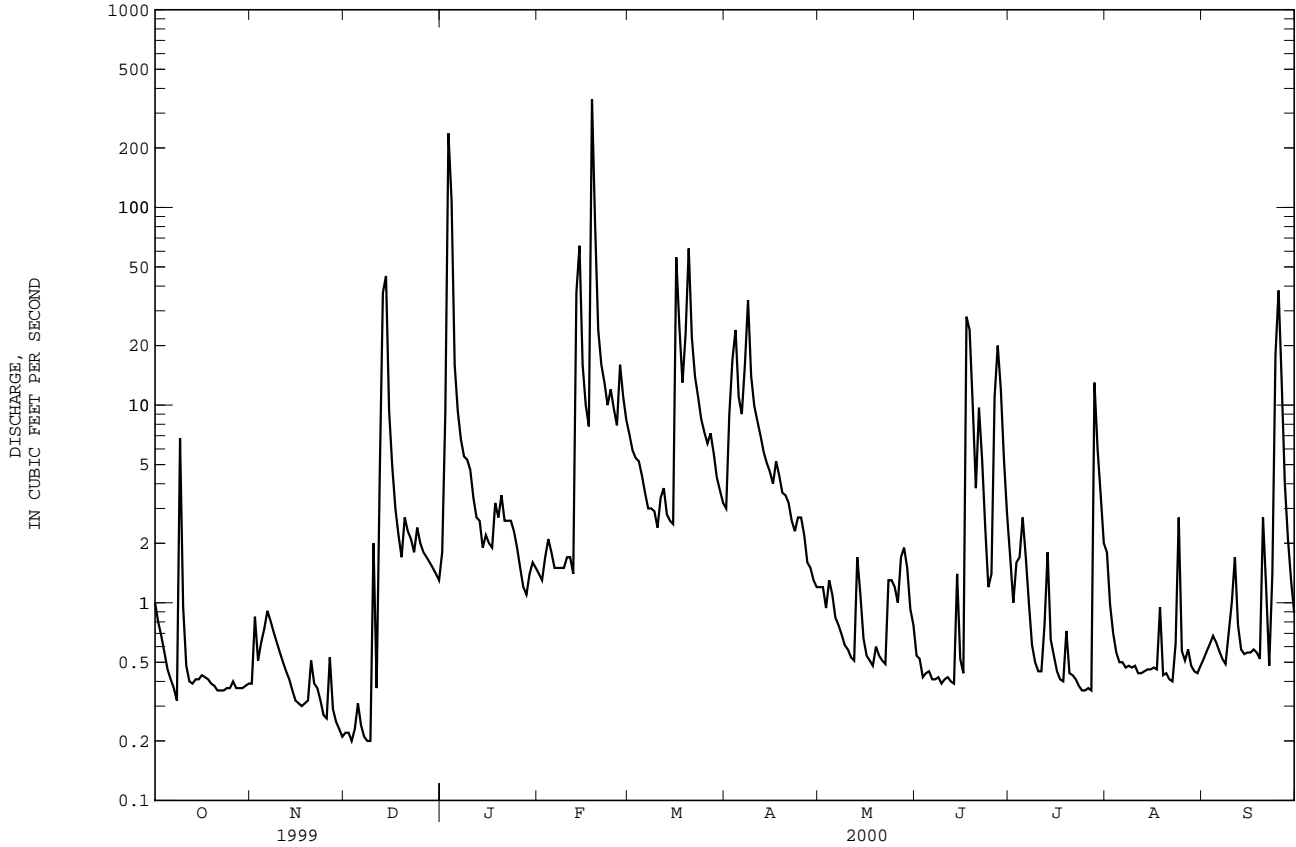
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000
MEAN	1.14	1.48	4.87	18.0	18.1	12.2	9.23	3.12	9.86	1.48	.48	2.00
MAX	1.61	2.51	5.39	21.5	24.7	13.7	11.1	5.31	14.9	1.51	.63	3.19
(WY)	1999	1999	1999	1999	2000	1999	1999	1999	1999	2000	2000	2000
MIN	.66	.45	4.34	14.5	11.2	10.7	7.32	.94	4.83	1.44	.34	.80
(WY)	2000	2000	2000	2000	1999	2000	2000	2000	2000	1999	1999	1999

03298300 PENNSYLVANIA RUN AT MOUNT WASHINGTON ROAD NEAR LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL	2595.62		2222.38			
ANNUAL MEAN	7.11		6.07		6.76	
HIGHEST ANNUAL MEAN					7.45 1999	
LOWEST ANNUAL MEAN					6.07 2000	
HIGHEST DAILY MEAN	293	Jun 28	353	Feb 18	353	Feb 18 2000
LOWEST DAILY MEAN	.20	Aug 22	.20	Dec 3	.20	Aug 22 1999
ANNUAL SEVEN-DAY MINIMUM	.22	Nov 28	.22	Nov 28	.22	Nov 28 1999
INSTANTANEOUS PEAK FLOW			1190	Feb 18	1540	Jun 28 1999
INSTANTANEOUS PEAK STAGE			7.26	Feb 18	8.22	Jun 28 1999
10 PERCENT EXCEEDS	15		11		13	
50 PERCENT EXCEEDS	2.0		1.2		1.8	
90 PERCENT EXCEEDS	.31		.37		.38	

e Estimated



SALT RIVER BASIN

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 mi².

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 Sheperdsville and other municipalities.

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

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	32	55	e106	e96	3080	368	293	158	369	82	58
2	41	38	54	e102	e92	2940	477	318	119	270	81	59
3	41	53	49	5400	e87	2830	1780	299	94	222	62	70
4	38	62	47	22800	e84	2750	5430	274	79	199	67	64
5	38	57	48	11700	e82	2680	3670	260	71	599	62	58
6	38	49	52	2480	e80	2590	2510	218	69	774	61	56
7	39	45	53	3090	155	1610	1930	196	66	500	55	54
8	39	48	53	2340	302	1340	4730	185	60	358	52	54
9	87	45	51	1390	351	868	4160	161	58	230	59	315
10	369	44	122	1150	193	425	3310	238	60	167	116	303
11	209	44	430	920	196	262	2400	304	58	129	196	77
12	125	42	442	868	198	293	2050	120	53	96	118	84
13	89	40	1630	870	585	288	1940	117	47	137	85	599
14	66	40	4210	817	12100	269	1780	145	43	119	67	704
15	51	39	1850	1070	5600	244	1660	136	49	82	60	760
16	44	38	768	1100	3460	2000	1590	116	66	60	54	698
17	37	37	475	1060	3310	4910	1580	100	76	50	50	279
18	31	37	365	789	10000	3060	1070	84	317	43	95	93
19	28	36	289	725	33000	2580	890	75	430	113	441	74
20	26	40	259	413	24700	9500	804	75	378	288	204	66
21	26	42	258	232	8780	6420	761	77	302	93	206	78
22	26	49	243	189	3610	4170	720	80	427	51	141	98
23	26	53	207	e180	3850	4140	662	186	300	42	113	94
24	26	46	168	e160	3700	3690	641	752	239	38	246	174
25	26	45	144	e150	4160	3380	501	289	168	34	275	752
26	26	57	136	e138	3780	3120	405	228	137	32	164	2020
27	27	82	e129	e128	3460	3010	376	162	624	30	114	1580
28	26	79	e122	e120	3440	2820	354	147	1620	133	103	1050
29	29	67	e118	e114	3210	1040	327	213	931	164	91	841
30	30	57	e112	e106	---	521	300	195	521	121	83	736
31	31	---	e108	e100	---	420	---	181	---	108	72	---
TOTAL	1775	1443	13047	60807	132661	77250	49176	6224	7620	5651	3675	11948
MEAN	57.3	48.1	421	1962	4575	2492	1639	201	254	182	119	398
MAX	369	82	4210	22800	33000	9500	5430	752	1620	774	441	2020
MIN	26	32	47	100	80	244	300	75	43	30	50	54

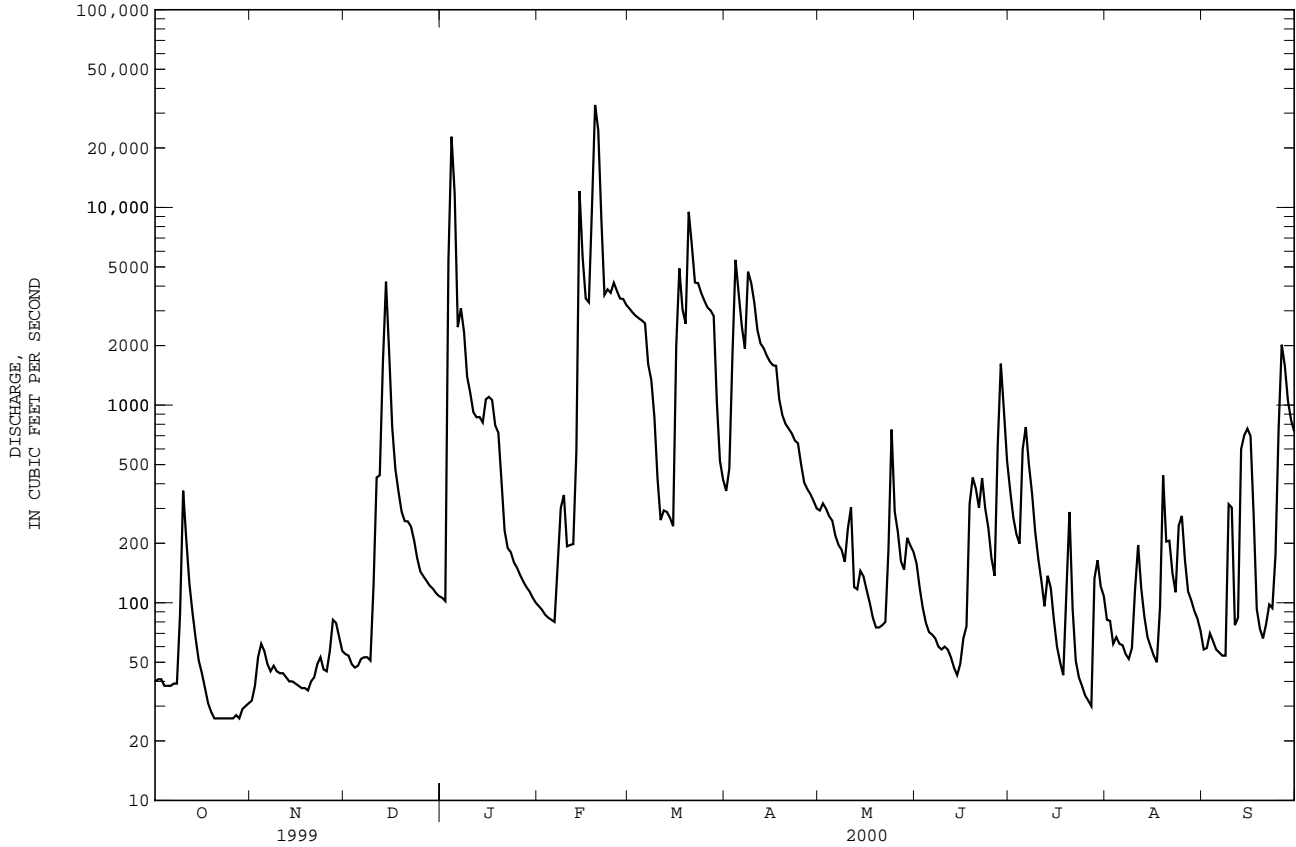
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2000, BY WATER YEAR (WY)

MEAN	245	907	1904	2640	3838	3367	2076	1838	1494	548	264	198
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1984 - 2000	
ANNUAL TOTAL	342101		371277		1598	
ANNUAL MEAN	937		1014		2809	
HIGHEST ANNUAL MEAN					970	
LOWEST ANNUAL MEAN					1999	
HIGHEST DAILY MEAN	16100	Jan 23	33000	Feb 19	65600	Mar 2 1997
LOWEST DAILY MEAN	25	Aug 18	26	Oct 20	7.7	Jul 1 1988
ANNUAL SEVEN-DAY MINIMUM	26	Oct 20	26	Oct 20	9.3	Jun 26 1988
INSTANTANEOUS PEAK FLOW			34800	Feb 19	78200	Mar 10 1964
INSTANTANEOUS PEAK STAGE			29.78	Feb 20	41.50	Mar 11 1964
10 PERCENT EXCEEDS	3050		3020		4100	
50 PERCENT EXCEEDS	168		162		492	
90 PERCENT EXCEEDS	30		41		45	

e Estimated



SALT RIVER BASIN

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 mi².

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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 3	Unknown	*2.080	*9.71	Feb 18	1930	1,650	8.60
Feb 13	2100	1,230	7.38				

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	.91	1.6	1.0	.71	.52	6.1	3.0	1.9	1.1	.03	.03	.43
2	.04	2.2	.99	1.2	.55	4.9	5.4	1.8	1.2	.04	.04	.35
3	.02	1.4	.92	240	.83	4.3	132	1.7	.80	.05	.04	.38
4	.02	1.2	.34	e280	1.0	3.3	65	2.1	.62	.24	.07	.39
5	.03	1.3	.34	e18	.78	2.9	20	1.8	.73	.26	.07	.41
6	.36	1.5	.27	5.7	.74	2.7	11	1.9	.86	.27	.06	.33
7	.69	1.5	.60	3.8	.66	2.6	7.8	1.5	1.0	.04	.07	.52
8	.59	1.5	.77	3.1	.49	2.6	98	1.4	1.0	.03	.21	.05
9	e2.2	1.1	.85	2.7	.47	2.3	21	1.2	1.2	.03	.26	.11
10	e1.5	1.2	2.4	2.1	.62	2.1	12	1.3	1.5	.03	1.0	.14
11	1.4	1.5	1.2	1.5	.76	2.6	9.9	1.4	2.1	.01	.95	.23
12	1.3	2.2	7.8	1.5	.70	2.6	13	1.4	1.2	.04	.09	.53
13	1.7	.57	15	1.6	143	1.6	8.9	1.6	.09	.13	.17	.63
14	1.6	.81	19	1.4	94	1.6	7.0	1.5	.13	.02	.10	.24
15	1.2	.87	1.3	1.4	15	1.7	5.0	1.3	.45	.02	.10	.11
16	1.2	.98	.53	1.6	6.9	106	5.0	1.3	.16	.02	.07	.03
17	1.3	.74	.58	1.6	4.5	30	7.1	1.3	.23	.02	.06	.02
18	1.2	1.0	.31	1.6	323	11	6.2	1.2	.74	.01	.16	.04
19	.89	1.1	.50	1.7	81	59	5.2	1.4	1.5	.12	.12	.42
20	1.0	1.2	.50	1.6	24	118	4.6	.97	.65	.02	.11	1.1
21	.99	.87	.43	1.3	14	22	4.6	.85	.96	.08	.09	.94
22	.92	.85	.47	1.1	9.6	11	4.0	.68	1.9	.27	.10	.55
23	.75	.98	.45	1.3	6.8	7.7	3.5	1.0	1.5	.30	.20	.86
24	.09	1.0	.44	1.2	7.4	6.3	2.9	2.7	.74	.04	1.5	.66
25	.45	.90	.39	1.0	e12	5.2	4.2	.93	.87	.02	.22	5.4
26	1.1	.85	.65	.74	e20	4.3	3.4	.94	.71	.01	.24	1.5
27	1.0	.21	.79	.55	e15	4.3	2.8	.79	9.3	.01	.38	.66
28	.79	.12	.64	.48	12	3.6	2.4	.86	3.7	.03	.28	.76
29	1.0	.22	.55	.71	7.6	2.6	2.5	.78	.68	.03	.19	1.0
30	1.1	.96	.59	.78	---	3.1	2.4	.99	.06	.68	.33	1.0
31	1.2	---	.68	.68	---	3.5	---	1.2	---	.27	.36	---
TOTAL	28.54	32.43	61.28	582.65	803.92	441.5	479.8	41.69	37.68	3.17	7.67	19.79
MEAN	.92	1.08	1.98	18.8	27.7	14.2	16.0	1.34	1.26	.10	.25	.66
MAX	2.2	2.2	19	280	323	118	132	2.7	9.3	.68	1.5	5.4
MIN	.02	.12	.27	.48	.47	1.6	2.4	.68	.06	.01	.03	.02

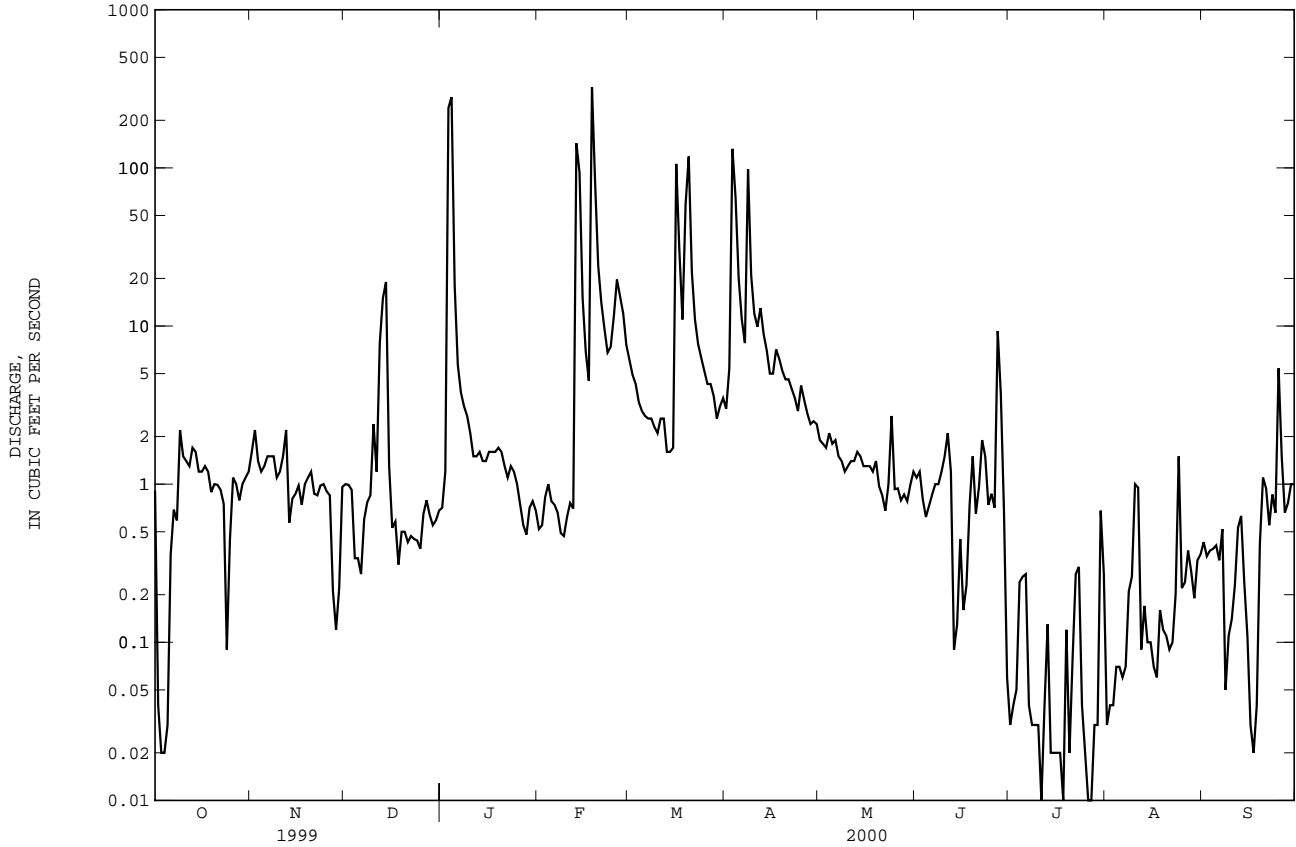
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2000, BY WATER YEAR (WY)

MEAN	1.72	2.79	6.00	18.9	17.8	32.1	19.6	17.9	10.7	1.03	1.49	.68
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	8.87	10.2	11.5	8.16	1.34	.84	.10	.057	.12
(WY)	1998	1995	1999	1993	1996	1995	1997	2000	1994	2000	1998	1998

03298550 LONG LICK AT CLERMONT, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1992 - 2000	
ANNUAL TOTAL	2070.01		2540.12		11.1	
ANNUAL MEAN	5.67		6.94		19.1	
HIGHEST ANNUAL MEAN					5.50	
LOWEST ANNUAL MEAN					1999	
HIGHEST DAILY MEAN	240	Jan 23	323	Feb 18	680	Mar 1 1997
LOWEST DAILY MEAN	.01	May 30	.01	Jul 11	.01	May 30 1999
ANNUAL SEVEN-DAY MINIMUM	.01	Aug 20	.03	Jul 14	.01	Aug 20 1999
INSTANTANEOUS PEAK FLOW			2080		2790	
INSTANTANEOUS PEAK STAGE			9.71		11.38	
10 PERCENT EXCEEDS	12		7.8		22	
50 PERCENT EXCEEDS	.98		1.0		1.5	
90 PERCENT EXCEEDS	.02		.07		.12	

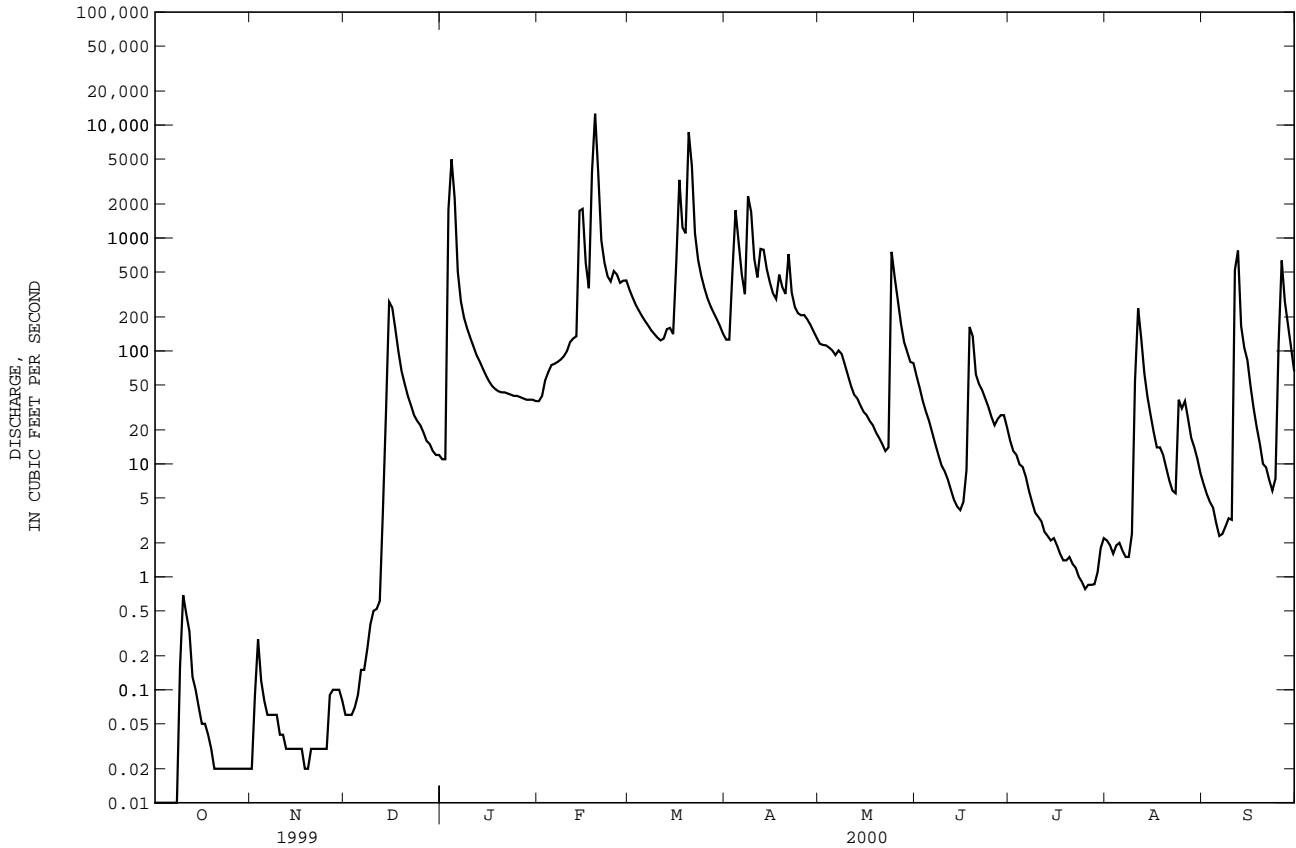
e Estimated



03300400 BEECH FORK AT MAUD, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1973 - 2000	
ANNUAL TOTAL	119922.10		93520.82		624	
ANNUAL MEAN	329		256		1243	
HIGHEST ANNUAL MEAN					256	
LOWEST ANNUAL MEAN					39800	
HIGHEST DAILY MEAN	12100	Jan 9	12600	Feb 19	39800	Mar 2 1997
LOWEST DAILY MEAN	.00	Sep 10	.00	Oct 7	.00	Oct 8 1983
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 10	.01	Oct 2	.00	Oct 23 1987
INSTANTANEOUS PEAK FLOW			14000		41500	
INSTANTANEOUS PEAK STAGE			19.23		27.60	
ANNUAL RUNOFF (CFSM)	.75		.59		1.43	
ANNUAL RUNOFF (INCHES)	10.23		7.98		19.45	
10 PERCENT EXCEEDS	737		474		1340	
50 PERCENT EXCEEDS	29		28		165	
90 PERCENT EXCEEDS	.02		.04		4.0	

e Estimated



SALT RIVER BASIN

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 mi².

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 Auxiliary gage (Rolling Fork at Lebanon Junction) 385.06 ft above sea level.

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

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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 20	1900	*20,400	*38.84	Mar 22	0100	16,500	35.76

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	17	7.5	15	37	156	1200	603	463	394	241	95	47
2	12	8.7	12	34	252	1010	593	441	317	173	152	39
3	9.6	8.8	e10	1770	e268	862	969	426	248	131	283	33
4	8.6	17	e11	7970	e270	757	3130	389	201	111	322	30
5	7.8	12	12	10100	266	661	4630	487	167	148	189	28
6	7.7	10	13	4480	257	582	2790	636	142	164	178	26
7	7.4	13	e14	1250	243	515	1750	446	123	220	147	22
8	10	14	e15	801	e220	461	3350	358	107	154	120	20
9	e19	12	e17	600	e232	419	6280	316	93	109	114	19
10	e28	11	e20	483	239	378	4360	270	84	83	927	18
11	e37	11	21	399	249	351	2340	226	76	68	1030	18
12	e56	9.3	22	330	270	353	2570	196	65	70	683	640
13	76	9.3	150	287	282	362	3790	183	54	89	460	960
14	107	8.8	721	248	1150	385	2760	189	47	63	269	494
15	70	8.5	897	219	4340	377	1900	171	47	49	188	286
16	45	8.5	817	194	3400	895	1470	147	49	44	144	209
17	30	8.6	604	181	1840	4220	1240	130	63	36	112	158
18	23	8.5	406	178	5200	5560	1230	116	954	30	95	119
19	19	8.4	273	180	16400	2780	1310	107	740	29	84	93
20	17	9.8	202	191	19600	9790	1110	99	485	29	71	75
21	14	9.4	164	198	16100	15900	1530	91	417	28	59	63
22	12	8.8	136	191	11200	14200	1420	86	327	28	50	55
23	11	9.0	112	181	7770	6500	930	423	257	26	52	48
24	9.7	9.4	97	183	6250	2360	794	5040	227	22	163	43
25	8.9	9.8	85	e181	4600	1760	992	4000	216	21	157	54
26	8.1	11	72	e179	2310	1410	921	1670	207	19	104	299
27	7.7	12	61	168	1540	1170	846	931	282	18	101	747
28	7.2	14	54	152	1460	1030	727	688	182	19	86	457
29	7.1	13	47	117	1380	893	624	728	168	23	83	313
30	7.2	16	43	124	---	---	535	626	280	56	75	225
31	7.6	---	40	133	---	681	---	497	---	102	60	---
TOTAL	707.6	317.1	5163	31739	107744	78594	57494	20576	7019	2403	6653	5638
MEAN	22.8	10.6	167	1024	3715	2535	1916	664	234	77.5	215	188
MAX	107	17	897	10100	19600	15900	6280	5040	954	241	1030	960
MIN	7.1	7.5	10	34	156	351	535	86	47	18	50	18
CFSM	.02	.01	.13	.79	2.86	1.95	1.48	.51	.18	.06	.17	.14
IN.	.02	.01	.15	.91	3.09	2.25	1.65	.59	.20	.07	.19	.16

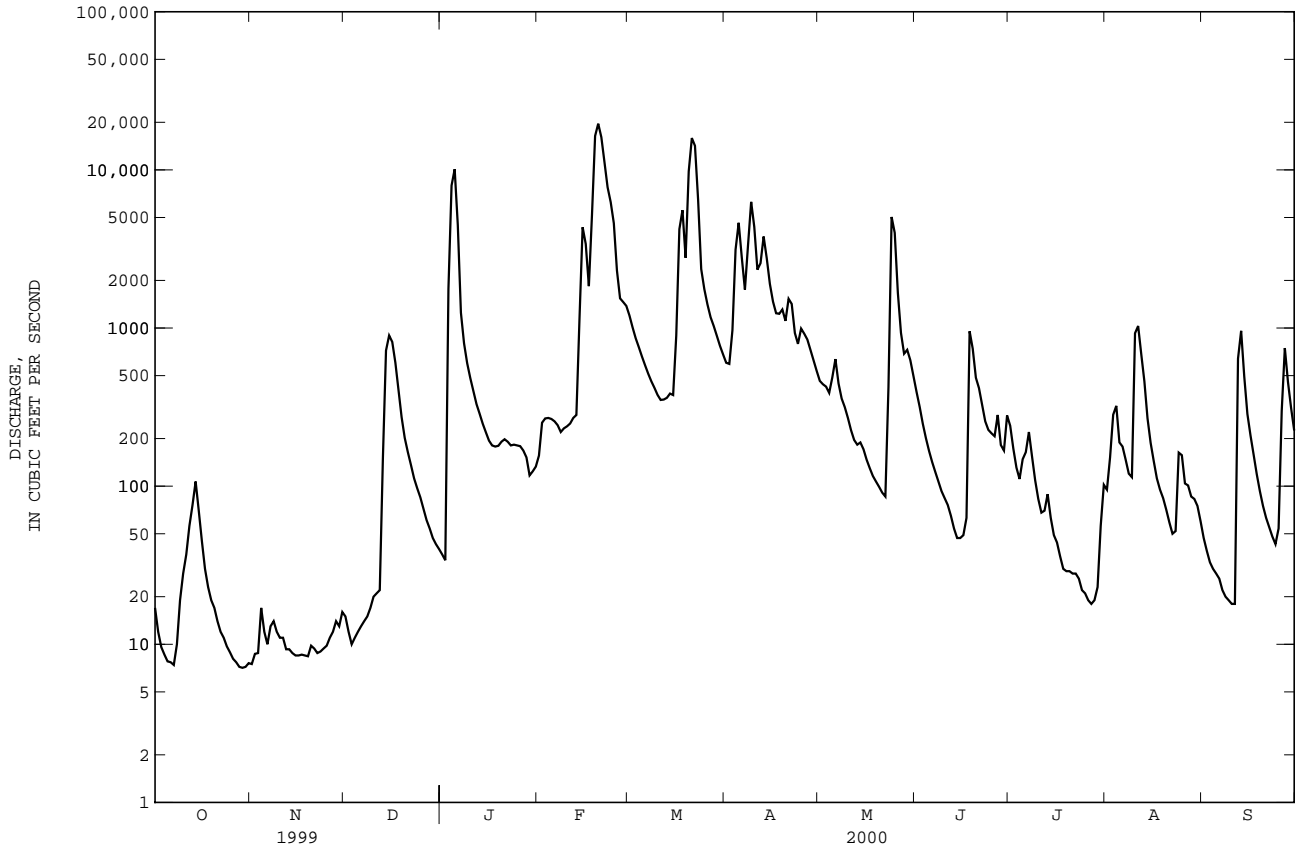
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2000, BY WATER YEAR (WY)

MEAN	300	1023	2354	3020	3798	3872	2778	1877	1143	741	410	446
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1939 - 2000	
ANNUAL TOTAL	377135.2		324047.7		1804	
ANNUAL MEAN	1033		885		4268	
HIGHEST ANNUAL MEAN					473	
LOWEST ANNUAL MEAN					1941	
HIGHEST DAILY MEAN	16700	Jan 11	19600	Feb 20	68400	Mar 4 1997
LOWEST DAILY MEAN	7.1	Oct 29	7.1	Oct 29	.40	Oct 20 1939
ANNUAL SEVEN-DAY MINIMUM	7.5	Oct 26	7.5	Oct 26	.40	Oct 3 1953
INSTANTANEOUS PEAK FLOW			20400	Feb 20	69800	Mar 3 1997
INSTANTANEOUS PEAK STAGE			38.84	Feb 20	53.22	Mar 3 1997
INSTANTANEOUS LOW FLOW					.40	Oct 20 1939
ANNUAL RUNOFF (CFSM)	.80		.68		1.39	
ANNUAL RUNOFF (INCHES)	10.80		9.28		18.87	
10 PERCENT EXCEEDS	2620		1790		4780	
50 PERCENT EXCEEDS	122		170		500	
90 PERCENT EXCEEDS	9.2		11		26	

e Estimated



SALT RIVER BASIN

03301575 WILSON CREEK AT HARRISON FORK ROAD NEAR DEATSVILLE, KY

LOCATION.--Lat 37°52'10", long 85°35'58", Nelson Cty, 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 mi².

PERIOD OF RECORD.--January 1997 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Records fair, except for periods of 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 18	1955	*413	*5.31	No other peak greater than base discharge.			

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	.03	e.10	e.34	1.1	6.5	3.3	2.1	.73	.73	.33	.12
2	.00	.20	e.10	e.45	1.1	5.7	8.1	2.5	.69	.59	.25	.11
3	.00	.06	e.09	27	1.1	5.3	30	2.1	.54	.42	.17	.09
4	.00	.03	e.16	16	1.1	5.0	25	2.0	.40	2.0	.15	.07
5	.00	.02	e.33	4.7	1.0	4.5	12	1.9	.40	1.6	.12	.05
6	.00	.10	e.27	3.0	.98	4.2	8.6	2.0	.42	.86	.10	.03
7	.00	.21	.30	2.2	1.0	3.9	6.7	2.0	.33	.70	.07	.02
8	.00	.18	.17	2.3	1.0	3.8	27	1.8	.27	.42	4.6	.02
9	.37	.14	.14	2.9	1.0	3.7	11	1.7	.22	.29	1.9	.01
10	.81	.12	2.0	2.7	1.1	3.4	7.8	1.6	.17	.24	1.2	.00
11	.56	.11	1.0	2.5	1.1	2.9	7.5	1.4	.13	.20	.76	.03
12	.26	.09	1.4	2.3	.96	2.1	8.3	1.1	.09	.18	.53	.15
13	.15	.09	6.8	1.8	15	1.7	6.6	1.4	.06	.74	.34	.45
14	.12	.09	6.8	.94	20	1.8	5.8	1.0	e.00	.29	.25	.18
15	.08	.09	1.6	.89	5.7	1.7	5.3	.93	e.00	.16	.17	.09
16	.06	.08	.92	.97	3.9	35	4.7	.87	e.00	.11	.13	.05
17	.05	.07	.78	.95	3.0	17	5.3	.87	e.46	.08	.09	.02
18	.05	.06	.49	1.2	97	9.2	4.7	.84	e.36	.06	.15	.01
19	.04	.07	.40	1.2	38	27	4.2	.78	e.27	.08	.21	.00
20	.04	.11	e.40	1.4	15	52	4.0	.83	e.19	.15	.12	.00
21	.04	.08	e.40	1.2	9.5	17	3.9	.83	e.35	.10	.07	.02
22	.03	.09	e.40	1.1	7.3	11	3.3	.81	e.29	.07	.05	.00
23	.02	.12	e.40	1.2	6.0	8.7	2.9	2.6	e.21	.04	.06	.02
24	.02	.24	e.40	1.1	5.8	7.4	3.1	4.8	e.16	.01	1.6	.11
25	.03	.26	e.40	1.0	5.1	6.4	4.0	1.6	e.28	.00	.84	3.0
26	.05	e.27	e.39	1.1	4.3	5.4	2.9	1.1	e.72	.00	.60	1.3
27	.04	e.17	e.39	1.1	11	5.4	2.7	1.4	e2.5	.00	.66	.64
28	.02	e.11	e.38	1.3	8.8	4.8	2.5	1.8	e1.8	.03	.57	.37
29	.02	e.10	e.37	1.3	7.2	4.0	2.3	1.5	e1.1	.14	.36	.31
30	.02	e.10	e.36	1.4	---	3.7	2.1	1.0	e.82	.93	.25	.25
31	.02	---	e.35	1.2	---	3.5	---	.83	---	.60	.16	---
MEAN	.094	.12	.92	2.86	9.49	8.83	7.52	1.55	.47	.38	.54	.25
MAX	.81	.27	6.8	27	97	52	30	4.8	2.5	2.0	4.6	3.0
MIN	.00	.02	.09	.34	.96	1.7	2.1	.78	.00	.00	.05	.00

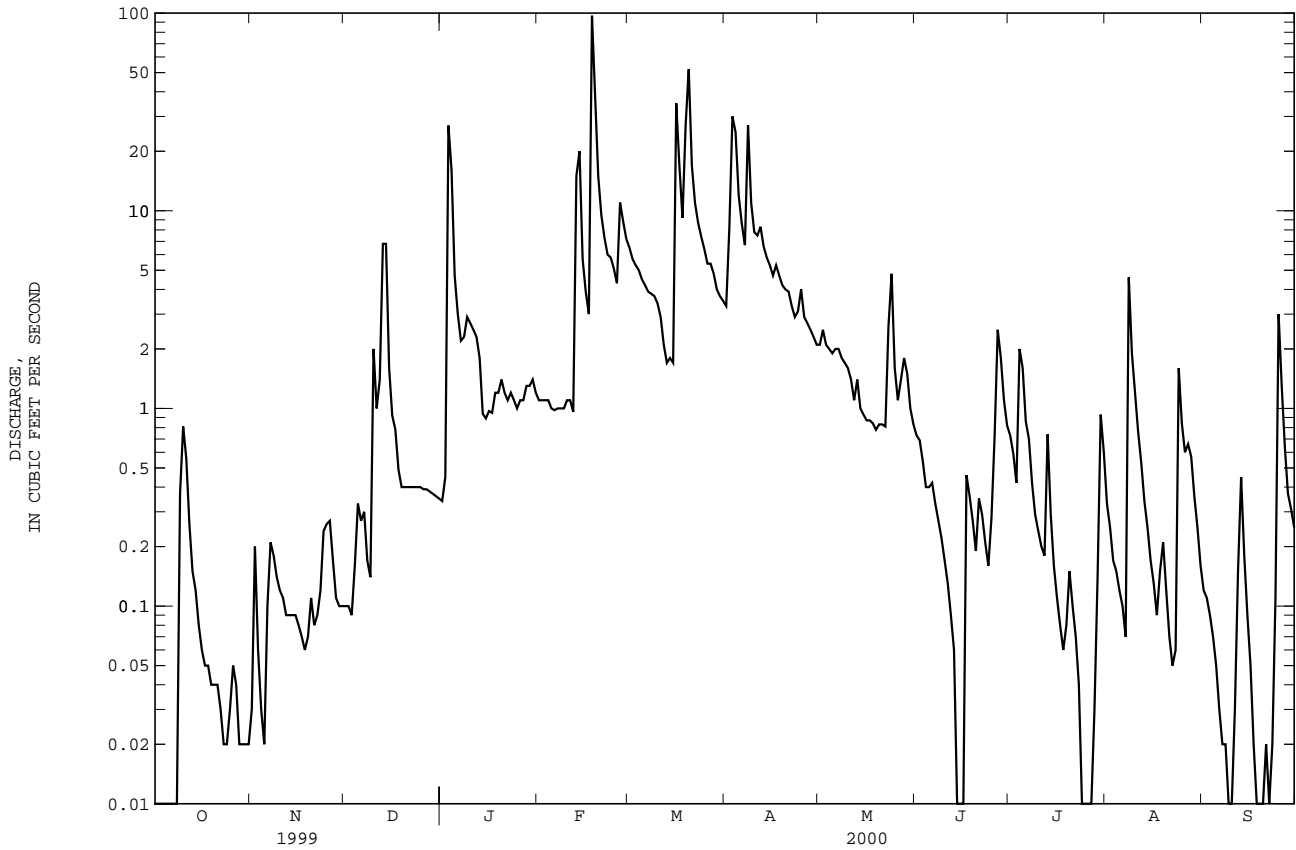
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	1999	2000	2000	2000	2000	2000	1999	1999	1999	2000	2000	2000
MEAN	.094	.12	.92	2.86	7.97	8.22	7.01	2.41	4.52	.41	.27	.13
MAX	.094	.12	.92	2.86	9.49	8.83	7.52	3.26	8.58	.44	.54	.25
(WY)	2000	2000	2000	2000	2000	2000	2000	1999	1999	1999	2000	2000
MIN	.094	.12	.92	2.86	6.39	7.62	6.51	1.55	.47	.38	.004	.004
(WY)	2000	2000	2000	2000	1999	1999	1999	2000	2000	2000	1999	1999

03301575 WILSON CREEK AT HARRISON FORK ROAD NEAR DEATSVILLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL MEAN			2.72		2.72	
HIGHEST ANNUAL MEAN					2.72	
LOWEST ANNUAL MEAN					2.72	
HIGHEST DAILY MEAN	83	Jun 29	97	Feb 18	97	Feb 18 2000
LOWEST DAILY MEAN	.00	Jul 31	.00	Oct 1	.00	Jul 31 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 11	.00	Oct 1	.00	Aug 11 1999
INSTANTANEOUS PEAK FLOW			413	Feb 18	440	Jan 23 1999
INSTANTANEOUS PEAK STAGE			5.31	Feb 18	7.23	Jan 23 1999
10 PERCENT EXCEEDS	7.5		6.4		7.5	
50 PERCENT EXCEEDS	.80		.62		1.0	
90 PERCENT EXCEEDS	.00		.03		.00	

e Estimated



SALT RIVER BASIN

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 mi².

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	3.7	3.8	4.2	e10	47	17	15	14	12	17	8.1
2	3.5	7.2	3.6	5.2	e10	37	45	21	12	9.6	12	7.2
3	3.4	7.5	3.8	974	e9.8	33	195	27	10	8.8	20	6.7
4	3.5	5.3	4.1	934	e9.7	30	270	81	9.4	15	29	8.6
5	3.6	4.3	4.9	261	e9.6	25	127	36	9.3	27	13	8.5
6	3.4	3.8	6.3	131	e9.6	21	88	25	8.7	47	11	6.4
7	3.4	3.9	5.6	74	e9.5	19	64	19	7.7	22	8.9	5.8
8	3.5	3.9	4.1	52	e9.4	17	197	17	7.4	13	24	6.0
9	89	3.6	4.2	43	e9.3	17	107	15	6.8	9.9	30	5.9
10	79	3.5	51	36	e9.2	15	77	13	6.7	8.5	47	5.9
11	17	3.6	29	29	e9.1	16	64	11	6.0	7.7	22	7.1
12	8.6	3.5	108	24	10	17	61	10	5.8	11	13	28
13	6.1	3.2	514	22	263	13	49	23	5.4	10	10	19
14	5.5	3.6	337	18	547	12	43	18	6.5	7.4	8.7	9.8
15	4.8	3.6	93	16	161	12	38	11	13	6.4	7.4	7.9
16	4.5	3.4	35	15	88	312	33	9.2	18	5.9	6.6	6.9
17	4.2	3.3	19	14	55	200	35	8.5	9.9	5.5	6.1	6.2
18	3.9	3.2	13	18	1080	100	32	8.1	25	5.3	7.7	5.9
19	4.0	3.5	9.7	16	592	112	28	8.6	29	12	6.8	5.6
20	3.6	5.1	9.7	18	247	499	26	8.2	15	9.7	5.7	5.5
21	3.5	5.0	8.4	17	135	186	26	7.2	14	6.9	5.5	6.8
22	3.4	4.7	6.9	15	85	115	21	6.7	13	5.9	5.3	6.3
23	3.6	4.1	6.0	14	64	83	19	429	8.9	5.5	72	5.9
24	3.6	3.9	6.3	13	58	64	22	259	7.5	5.0	263	16
25	3.6	4.1	6.5	12	49	50	43	81	8.7	5.0	52	127
26	3.4	11	6.1	e12	41	40	29	44	11	4.9	27	72
27	3.5	9.9	5.9	e11	96	38	24	35	73	4.7	20	28
28	3.4	5.7	5.7	e11	74	32	22	31	65	60	15	18
29	3.2	4.8	4.7	e11	57	26	19	25	26	51	12	13
30	3.7	4.1	4.5	e10	---	22	16	20	15	59	10	11
31	3.5	---	4.4	e10	---	20	---	16	---	31	8.3	---
TOTAL	296.6	140.0	1324.2	2840.4	3807.2	2230	1837	1338.5	467.7	492.6	796.0	475.0
MEAN	9.57	4.67	42.7	91.6	131	71.9	61.2	43.2	15.6	15.9	25.7	15.8
MAX	89	11	514	974	1080	499	270	429	73	60	263	127
MIN	3.2	3.2	3.6	4.2	9.1	12	16	6.7	5.4	4.7	5.3	5.5

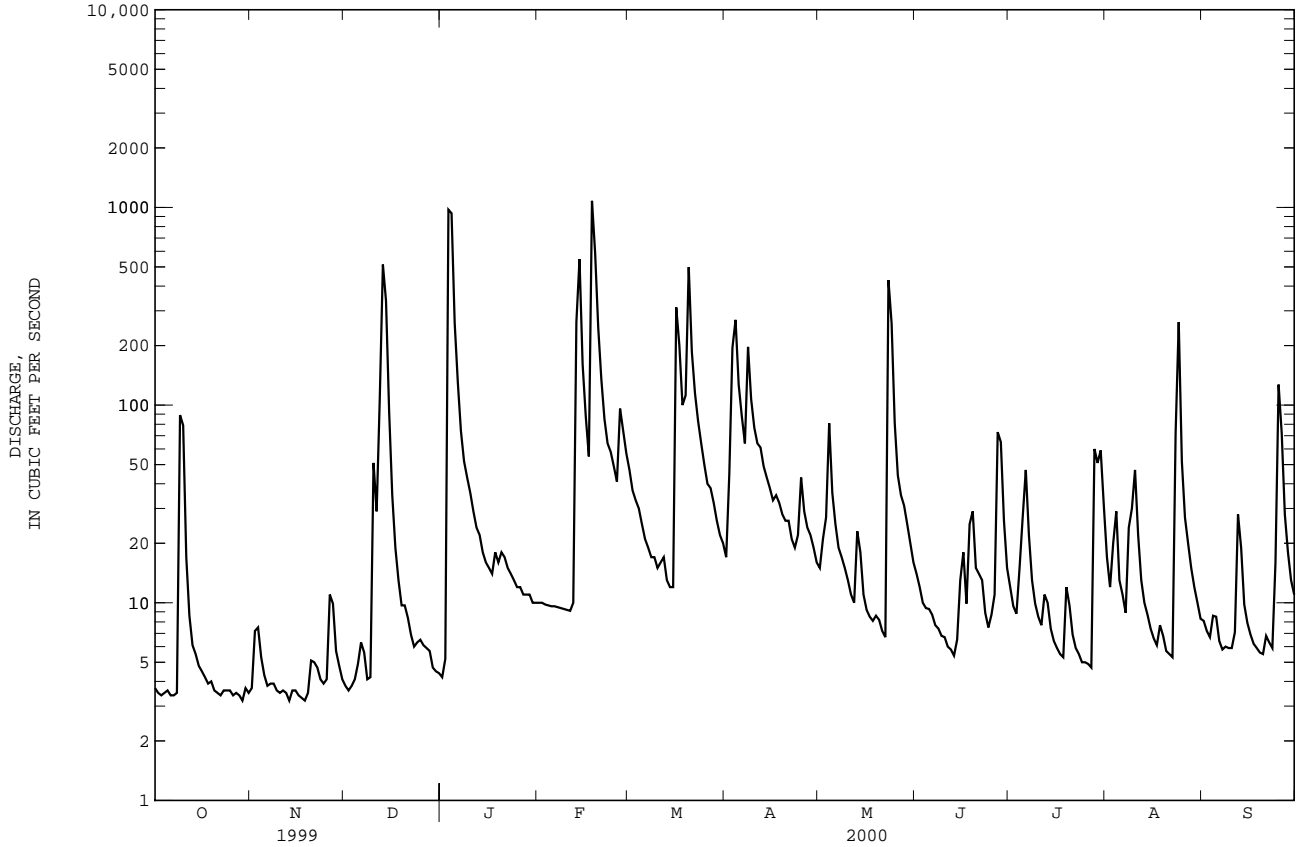
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000
MEAN	11.5	7.52	34.6	105	96.7	79.0	67.7	54.6	13.4	10.2	14.5	9.41
MAX	13.4	10.4	42.7	119	131	86.0	74.2	66.0	15.6	15.9	25.7	15.8
(WY)	1999	1999	2000	1999	2000	1999	1999	1999	2000	2000	2000	2000
MIN	9.57	4.67	26.4	91.6	60.9	71.9	61.2	43.2	11.1	4.56	3.28	2.99
(WY)	2000	2000	1999	2000	1999	2000	2000	2000	1999	1999	1999	1999

03301700 MILL CREEK NEAR FORT KNOX, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL	14755.2		16045.2		41.8	
ANNUAL MEAN	40.4		43.8		43.8	
HIGHEST ANNUAL MEAN					39.8	
LOWEST ANNUAL MEAN					2000	
HIGHEST DAILY MEAN	897	Jan 23	1080	Feb 18	1080	Feb 18 2000
LOWEST DAILY MEAN	2.4	Sep 11	3.2	Oct 29	2.4	Sep 11 1999
ANNUAL SEVEN-DAY MINIMUM	2.8	Aug 29	3.4	Nov 12	2.8	Aug 29 1999
INSTANTANEOUS PEAK FLOW			6140	Jan 4	6140	Jan 4 2000
INSTANTANEOUS PEAK STAGE			10.29	Jan 4	10.29	Jan 4 2000
10 PERCENT EXCEEDS	99		84		88	
50 PERCENT EXCEEDS	8.5		12		12	
90 PERCENT EXCEEDS	3.0		3.9		3.5	

e Estimated



SALT RIVER BASIN

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 mi².

PERIOD OF RECORD.--February 1991 to October 1995. September 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage 550.74 ft., 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 300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 3	2035	*857	*4.03	Feb 18	1855	727	3.78

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

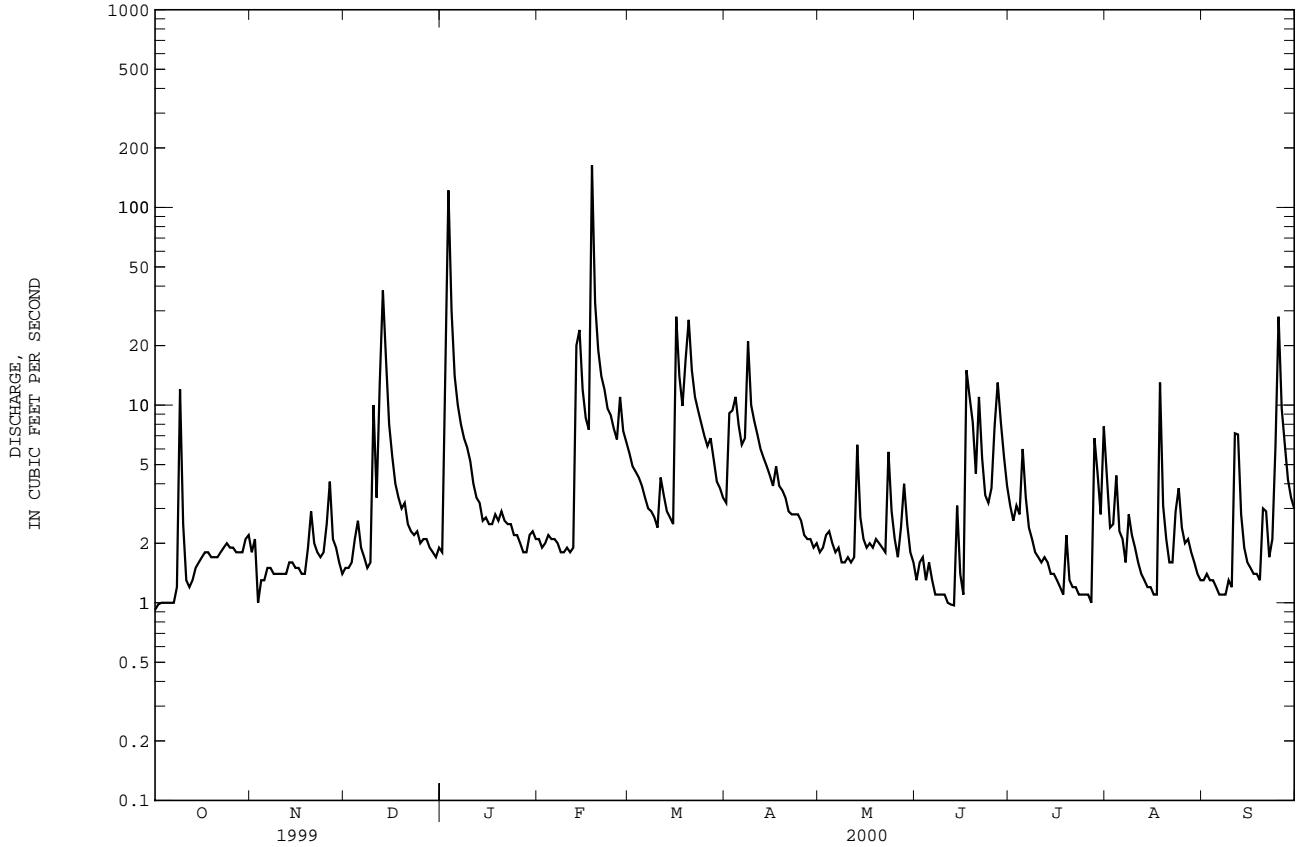
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.92	1.8	1.5	1.8	2.1	5.7	3.2	1.8	1.3	3.1	4.3	1.3
2	.98	2.1	1.5	15	1.9	4.9	9.1	1.9	1.6	2.6	2.4	1.4
3	1.0	1.0	1.6	122	2.0	4.6	9.4	2.2	1.7	3.1	2.5	1.3
4	1.0	1.3	2.1	30	2.2	4.3	11	2.3	1.3	2.8	4.4	1.3
5	1.0	1.3	2.6	14	2.1	3.9	7.9	2.0	1.6	6.0	2.3	1.2
6	1.0	1.5	1.9	10	2.1	3.4	6.3	1.8	1.3	3.4	2.1	1.1
7	1.0	1.5	1.7	8.0	2.0	3.0	6.8	1.9	1.1	2.4	1.6	1.1
8	1.2	1.4	1.5	6.8	1.8	2.9	21	1.6	1.1	2.1	2.8	1.1
9	12	1.4	1.6	6.1	1.8	2.7	10	1.6	1.1	1.8	2.2	1.3
10	2.5	1.4	10	5.2	1.9	2.4	8.3	1.7	1.1	1.7	1.9	1.2
11	1.3	1.4	3.4	4.0	1.8	4.3	7.1	1.6	1.0	1.6	1.6	7.2
12	1.2	1.4	13	3.4	1.9	3.5	6.0	1.7	.98	1.7	1.4	7.1
13	1.3	1.6	38	3.2	20	2.9	5.4	6.3	.97	1.6	1.3	2.8
14	1.5	1.6	17	2.6	24	2.7	4.9	2.7	3.1	1.4	1.2	1.9
15	1.6	1.5	8.0	2.7	12	2.5	4.4	2.1	1.4	1.4	1.2	1.6
16	1.7	1.5	5.5	2.5	8.6	28	3.9	1.9	1.1	1.3	1.1	1.5
17	1.8	1.4	4.0	2.5	7.5	14	4.9	2.0	15	1.2	1.1	1.4
18	1.8	1.4	3.4	2.8	163	9.9	3.9	1.9	11	1.1	13	1.4
19	1.7	1.9	3.0	2.6	33	17	3.7	2.1	8.2	2.2	3.1	1.3
20	1.7	2.9	3.2	2.9	19	27	3.4	2.0	4.5	1.3	2.1	3.0
21	1.7	2.0	2.5	2.6	14	15	2.9	1.9	11	1.2	1.6	2.9
22	1.8	1.8	2.3	2.5	12	11	2.8	1.8	5.4	1.2	1.6	1.7
23	1.9	1.7	2.2	2.5	9.6	9.4	2.8	5.8	3.5	1.1	2.9	2.1
24	2.0	1.8	2.3	2.2	8.9	8.1	2.8	2.9	3.2	1.1	3.8	6.2
25	1.9	2.5	2.0	2.2	7.6	7.0	2.6	2.1	3.8	1.1	2.4	28
26	1.9	4.1	2.1	2.0	6.7	6.2	2.2	1.7	7.8	1.1	2.0	9.6
27	1.8	2.1	2.1	1.8	11	6.8	2.1	2.4	13	1.0	2.1	6.3
28	1.8	1.9	1.9	1.8	7.4	5.3	2.1	4.0	8.2	6.8	1.8	4.2
29	1.8	1.6	1.8	2.2	6.5	4.1	1.9	2.5	5.5	4.5	1.6	3.4
30	2.1	1.4	1.7	2.3	---	3.8	2.0	1.8	3.9	2.8	1.4	3.0
31	2.2	---	1.9	2.1	---	3.4	---	1.6	---	7.8	1.3	---
TOTAL	59.10	52.2	147.3	272.3	394.4	229.7	164.8	71.6	125.75	73.5	76.1	108.9
MEAN	1.91	1.74	4.75	8.78	13.6	7.41	5.49	2.31	4.19	2.37	2.45	3.63
MAX	12	4.1	38	122	163	28	21	6.3	15	7.8	13	28
MIN	.92	1.0	1.5	1.8	1.8	2.4	1.9	1.6	.97	1.0	1.1	1.1
CFSM	.54	.50	1.36	2.51	3.89	2.12	1.57	.66	1.20	.68	.70	1.04
IN.	.63	.55	1.57	2.89	4.19	2.44	1.75	.76	1.34	.78	.81	1.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

	1998	1998	1999	2000	1999	2000	2000	2000	2000	2000	1999	1999
MEAN	1.64	2.22	4.62	9.81	9.53	8.77	7.99	4.72	6.24	3.15	2.02	1.78
MAX	1.91	2.55	5.73	11.3	13.6	9.50	11.9	8.47	8.09	5.49	2.86	3.63
(WY)	2000	1998	1998	1999	2000	1999	1998	1998	1998	1998	1998	2000
MIN	1.18	1.74	3.37	8.78	6.65	7.41	5.49	2.31	4.19	1.59	.75	.80
(WY)	1998	2000	1999	2000	1999	2000	2000	2000	2000	1999	1999	1999

03301900 FERN CREEK AT OLD BARDSTOWN ROAD AT LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	1683.84		1775.65			
ANNUAL MEAN	4.61		4.85		5.18	
HIGHEST ANNUAL MEAN					6.16 1998	
LOWEST ANNUAL MEAN					4.54 1999	
HIGHEST DAILY MEAN	96	Jun 28	163	Feb 18	163	Feb 18 2000
LOWEST DAILY MEAN	.64	Aug 18	.92	Oct 1	.40	Oct 6 1997
ANNUAL SEVEN-DAY MINIMUM	.67	Aug 26	.99	Oct 1	.61	Oct 3 1997
INSTANTANEOUS PEAK FLOW			857	Jan 3	933	Jun 28 0000
INSTANTANEOUS PEAK STAGE			4.03	Jan 3	4.16	Jun 28 0000
ANNUAL RUNOFF (CFSM)	1.32		1.39		1.48	
ANNUAL RUNOFF (INCHES)	17.90		18.87		20.12	
10 PERCENT EXCEEDS	11		9.6		11	
50 PERCENT EXCEEDS	2.1		2.2		2.6	
90 PERCENT EXCEEDS	.77		1.3		.95	



SALT RIVER BASIN

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 mi².

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 fair.

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 350 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 13	2135	428	6.54	Feb 18	1915	1,190	10.96
Jan 3	2220	*1,450	*12.42	Jun 17	1715	503	7.02

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	.59	2.0	4.8	6.4	8.0	4.9	6.7	3.7	2.5	3.9	e6.3	3.6
2	.43	6.0	3.9	29	7.5	5.6	23	3.6	2.4	3.2	e3.6	3.6
3	.35	3.3	3.2	341	7.1	5.6	23	3.6	2.5	3.4	e4.0	3.7
4	.39	1.9	3.2	282	7.3	4.3	30	5.7	2.2	4.5	7.0	3.5
5	.45	1.8	4.3	44	6.7	3.5	22	3.7	2.5	12	3.0	3.6
6	.43	2.0	5.0	34	6.2	3.1	17	3.3	2.5	5.0	3.0	3.4
7	.41	1.9	2.6	29	6.1	2.9	15	3.0	1.9	3.2	2.2	3.9
8	.39	1.9	2.2	25	5.6	2.8	53	3.0	2.2	2.5	2.7	3.3
9	35	1.9	2.0	23	5.3	2.8	27	2.6	1.6	2.2	3.9	2.8
10	8.8	1.9	19	22	5.5	2.5	23	2.7	1.5	2.0	3.1	3.1
11	3.9	1.8	5.3	19	5.7	2.8	18	2.5	1.6	1.9	2.1	3.2
12	2.5	1.7	21	18	5.3	2.6	15	2.4	1.4	5.0	1.6	3.3
13	2.2	1.9	90	18	44	3.3	12	14	1.4	17	1.3	3.9
14	2.0	2.0	50	15	51	3.4	11	4.5	8.4	2.4	1.2	3.6
15	2.0	2.0	12	15	14	3.5	9.9	3.7	6.7	1.9	1.1	3.8
16	2.9	2.0	9.1	14	11	61	8.8	4.1	2.5	1.7	1.1	3.4
17	2.1	1.9	7.4	13	8.9	27	11	3.7	73	1.5	.98	3.4
18	2.1	2.1	6.3	16	444	20	9.2	3.6	31	1.4	31	3.4
19	2.3	1.9	5.8	14	153	29	7.7	3.7	21	4.0	4.4	3.6
20	2.4	4.4	e5.4	15	21	56	7.6	3.0	7.1	2.3	3.0	4.4
21	2.1	3.4	e5.1	17	13	29	6.5	2.9	28	1.7	2.5	4.4
22	1.9	2.6	e4.9	12	9.7	24	4.9	2.9	8.5	1.4	2.1	4.0
23	1.8	2.4	e4.7	12	7.4	20	5.5	12	5.2	1.2	5.0	4.0
24	2.0	2.1	e4.5	11	6.8	16	5.8	8.0	4.3	1.1	8.8	4.1
25	1.9	2.4	e4.4	12	5.4	13	6.0	4.0	6.2	.91	4.3	3.9
26	1.8	12	e4.2	9.8	4.7	11	4.7	3.1	11	1.0	4.1	4.1
27	1.8	7.8	e4.1	9.2	12	14	4.5	4.7	33	e.90	3.9	4.7
28	1.8	6.3	e4.0	9.1	6.3	10	4.5	10	18	e9.0	3.8	5.4
29	1.8	5.5	e3.9	8.4	5.3	9.2	4.0	5.2	8.0	e6.2	3.6	6.7
30	1.7	5.1	e3.8	9.1	---	7.1	3.6	3.4	5.1	e4.0	3.4	4.4
31	1.8	---	e3.7	8.6	---	6.8	---	2.9	---	e10	3.3	---
TOTAL	92.04	95.9	309.8	1110.6	893.8	406.7	399.9	139.2	303.2	118.41	131.38	116.2
MEAN	2.97	3.20	9.99	35.8	30.8	13.1	13.3	4.49	10.1	3.82	4.24	3.87
MAX	35	12	90	341	444	61	53	14	73	17	31	6.7
MIN	.35	1.7	2.0	6.4	4.7	2.5	3.6	2.4	1.4	.90	.98	2.8

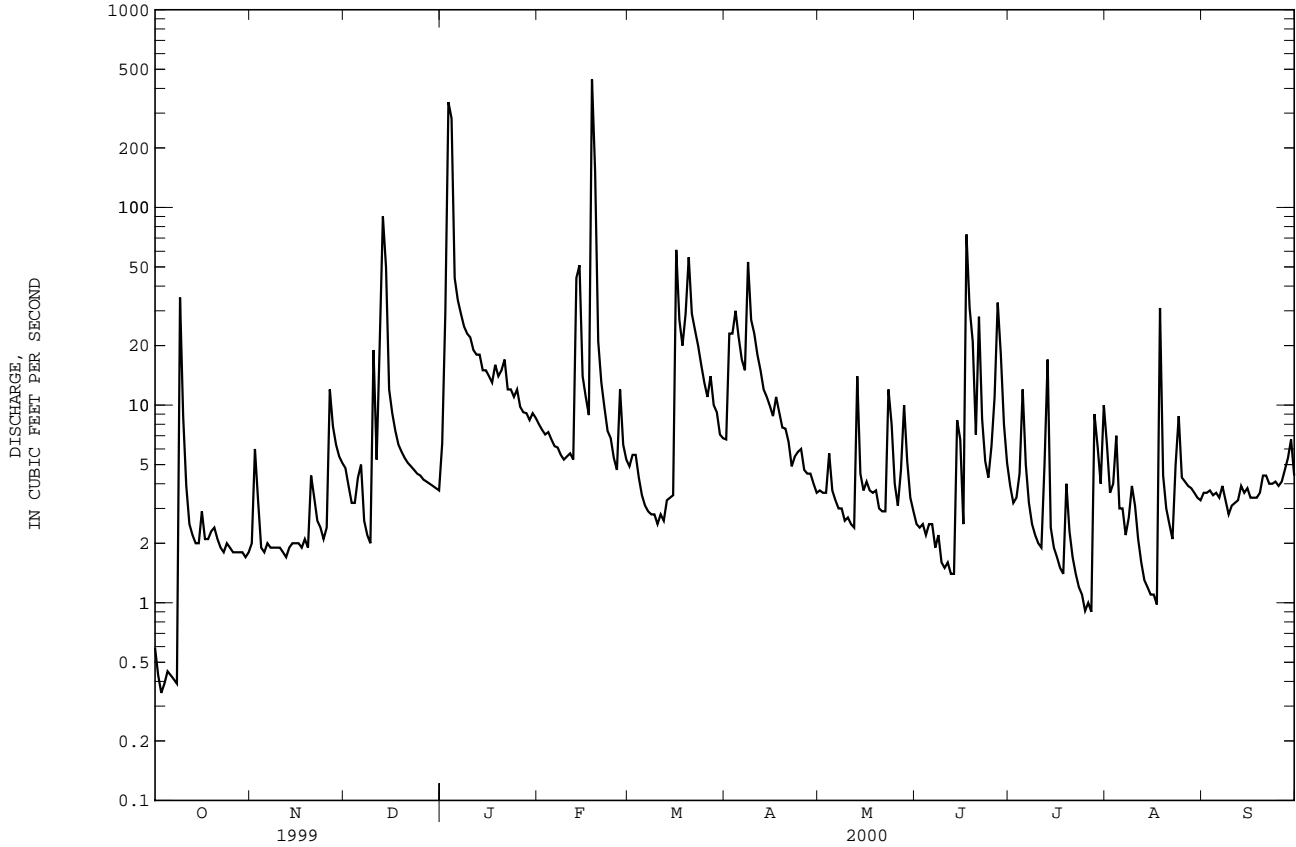
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2000, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	1992	1993	1994	1995
MEAN	3.79	4.75	13.1	27.6	24.3	16.6	17.3	23.4	18.1	8.72	7.73	4.29	
MAX	4.99	6.79	21.3	35.8	31.2	26.4	35.6	58.8	30.2	18.9	17.3	8.90	
(WY)	1999	1995	1994	2000	1998	1998	1998	1995	1999	1998	1995	1995	
MIN	2.47	3.20	6.39	18.3	12.6	11.1	9.59	4.49	6.07	3.82	.70	.61	
(WY)	1998	2000	1999	1999	1999	1999	1995	2000	1995	2000	1999	1999	

03301940 NORTHERN DITCH AT OKOLONA, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1992 - 2000	
ANNUAL TOTAL	3502.15		4117.13		13.9	
ANNUAL MEAN	9.59		11.2		18.5	
HIGHEST ANNUAL MEAN					9.52	
LOWEST ANNUAL MEAN					1998	
HIGHEST DAILY MEAN	410	Jun 28	444	Feb 18	608	May 18 1995
LOWEST DAILY MEAN	.18	Aug 16	.35	Oct 3	.00	Sep 12 1997
ANNUAL SEVEN-DAY MINIMUM	.24	Aug 12	.41	Oct 2	.00	Sep 12 1997
INSTANTANEOUS PEAK FLOW			1450	Jan 3	1590	Jun 28 1999
INSTANTANEOUS PEAK STAGE			12.42	Jan 3	13.19	Jun 28 1999
10 PERCENT EXCEEDS	17		21		32	
50 PERCENT EXCEEDS	5.3		4.1		7.4	
90 PERCENT EXCEEDS	.46		1.8		1.9	

e Estimated



SALT RIVER BASIN

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 Road, right bank, 0.4 mi south of Third Street Road, 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 mi².

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.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 14	0050	1,730	13.42	Feb 18	2230	*4,920	*21.54
Jan 4	0050	4,690	21.15	Mar 17	1450	2,280	14.75
Feb 14	0115	2,240	15.29				

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	4.9	9.1	6.3	10	e8.6	e53	e21	13	8.9	22	76	7.2
2	4.0	40	6.2	111	e10	e44	e52	14	8.7	17	21	13
3	4.0	15	6.9	1910	e13	e38	e140	14	8.5	18	16	104
4	3.9	11	8.3	2770	16	e33	e233	35	7.4	72	17	10
5	3.7	9.4	14	241	15	e25	e100	13	e7.8	117	16	7.9
6	3.5	9.3	14	137	14	e22	e69	11	e12	37	20	7.5
7	3.1	9.3	8.3	90	15	e19	e68	11	e10	21	13	7.0
8	3.4	9.1	7.2	65	15	e18	e554	10	e8.0	17	20	6.7
9	281	9.3	6.8	52	15	e17	e200	9.5	6.6	15	21	11
10	112	9.3	202	38	15	e16	e86	15	6.4	14	14	11
11	25	9.6	37	28	15	e48	65	8.8	6.2	14	9.2	105
12	16	9.4	203	22	13	e37	53	8.2	6.1	16	7.8	126
13	18	9.6	394	25	264	e21	41	82	6.0	320	7.1	27
14	16	9.5	643	26	913	e20	36	19	7.9	35	6.9	15
15	15	9.3	88	19	136	e19	30	11	29	19	6.9	12
16	13	9.4	51	16	82	e878	27	9.5	18	15	6.8	8.3
17	14	9.5	31	14	55	e269	46	16	203	13	6.5	7.1
18	12	9.4	22	36	2340	e118	32	16	241	12	149	7.2
19	10	9.9	17	22	e1000	e202	25	22	135	69	19	7.7
20	9.6	25	20	31	e360	e695	23	12	43	21	10	9.2
21	9.3	13	15	21	e190	e184	22	9.3	118	14	9.3	38
22	8.7	10	13	16	e130	e117	18	8.3	54	13	9.0	12
23	8.4	9.5	16	e14	e100	e85	18	75	26	11	27	16
24	8.5	9.1	14	e13	e78	e69	22	42	21	9.7	121	181
25	8.8	9.6	e11	e11	e66	e54	24	14	51	10	23	467
26	8.9	58	e10	e10	e56	e46	17	9.8	65	10	16	156
27	8.6	15	12	e9.6	e80	e57	15	20	214	10	15	52
28	8.4	8.3	10	e8.8	e72	e38	15	63	102	132	12	32
29	8.6	7.1	9.8	e8.2	e64	e29	14	20	44	112	9.2	23
30	8.7	6.5	10	e7.6	---	e25	13	11	27	44	8.7	17
31	8.7	---	10	e7.0	---	e23	---	9.7	---	31	7.9	---
TOTAL	667.7	387.5	1916.8	5789.2	6150.6	3319	2079	632.1	1501.5	1280.7	721.3	1503.8
MEAN	21.5	12.9	61.8	187	212	107	69.3	20.4	50.0	41.3	23.3	50.1
MAX	281	58	643	2770	2340	878	554	82	241	320	149	467
MIN	3.1	6.5	6.2	7.0	8.6	16	13	8.2	6.0	9.7	6.5	6.7
CFSM	.34	.20	.97	2.92	3.31	1.67	1.08	.32	.78	.65	.36	.78
IN.	.39	.23	1.11	3.36	3.58	1.93	1.21	.37	.87	.74	.42	.87

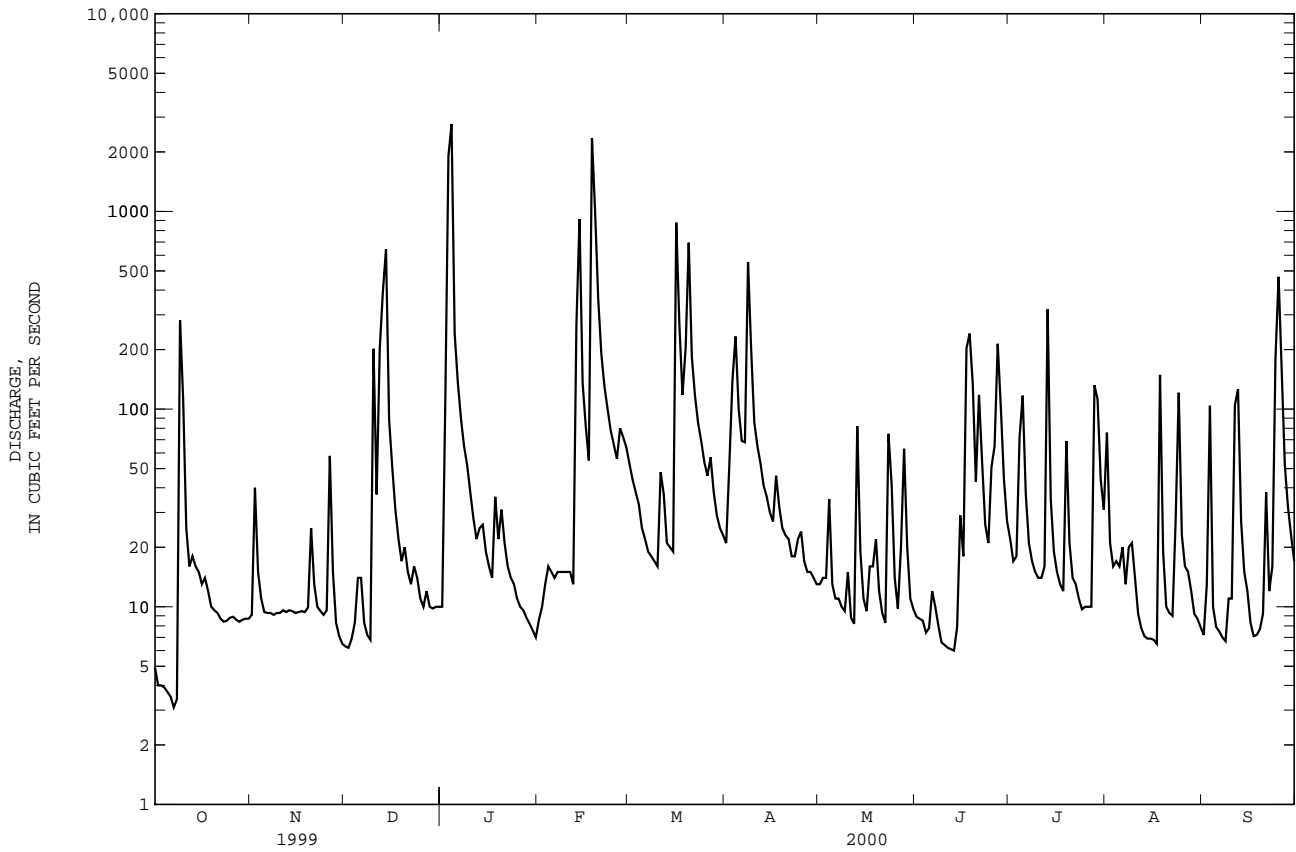
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2000, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)
MEAN	27.6	57.2	96.4	133
MAX	117	256	310	614
MIN	1.76	2.60	4.48	8.52
(WY)	1976	1974	1979	1950
MEAN	1.76	2.60	4.48	8.52
MAX	117	256	310	614
MIN	1.76	2.60	4.48	8.52
(WY)	1947	1945	1954	1977

03302000 POND CREEK NEAR LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1944 - 2000	
ANNUAL TOTAL	24942.6		25949.2		90.3	
ANNUAL MEAN	68.3		70.9		159	
HIGHEST ANNUAL MEAN					11.4 1954	
LOWEST ANNUAL MEAN					7200 Mar 2 1997	
HIGHEST DAILY MEAN	1810	Jun 29	2770	Jan 4	.10 Sep 3 1945	
LOWEST DAILY MEAN	2.8	Aug 23	3.1	Oct 7	.19 Sep 17 1945	
ANNUAL SEVEN-DAY MINIMUM	3.3	Aug 21	3.7	Oct 2	8020 Mar 9 1964	
INSTANTANEOUS PEAK FLOW			4920	Feb 18	25.74 Mar 2 1997	
INSTANTANEOUS PEAK STAGE			21.54	Feb 18	.10 Sep 3 1945	
INSTANTANEOUS LOW FLOW					1.41	
ANNUAL RUNOFF (CFSM)	1.07		1.11		19.17	
ANNUAL RUNOFF (INCHES)	14.50		15.08		188	
10 PERCENT EXCEEDS	133		127		26	
50 PERCENT EXCEEDS	16		16		7.8	
90 PERCENT EXCEEDS	5.2		7.8			

e Estimated



SALT RIVER BASIN

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 mi².

PERIOD OF RECORD.--December 1998 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 4,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 4	1015	*10,500	19.75	No other peak above base discharge.			

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	e12	e22	7.1	e16	e15	e58	e27	e17	9.6	26	76	9.4
2	e7.0	72	6.9	101	e17	e49	e66	e18	11	20	29	8.3
3	e5.5	50	6.7	3740	e19	e43	e140	e37	13	17	20	101
4	5.1	26	8.3	6220	e22	e37	e340	44	11	28	17	17
5	5.6	17	20	396	21	e30	e200	20	8.1	128	22	11
6	5.8	13	42	181	21	e27	e100	14	24	45	23	9.2
7	5.7	12	18	110	20	e25	76	13	e13	27	17	9.2
8	5.8	13	8.7	75	21	e23	851	11	e11	e20	12	10
9	275	12	6.2	60	21	e22	e220	9.4	e10	e18	30	11
10	249	11	231	46	21	e21	e96	15	e8.2	e17	19	20
11	e50	10	85	36	27	e60	e71	11	e7.4	e16	13	30
12	e30	12	186	29	24	e47	e58	8.7	e7.1	e15	8.4	166
13	e19	13	441	32	143	e31	e52	65	e7.7	312	8.8	39
14	e21	12	1370	42	1470	e26	e43	31	e7.3	42	7.2	20
15	e16	11	150	29	174	e25	e36	14	29	24	9.3	16
16	e12	10	e100	27	95	1210	e59	10	31	17	11	9.9
17	e11	10	e64	24	74	546	e48	9.6	114	12	9.3	7.9
18	e18	10	e40	44	e2900	156	e36	24	320	10	120	9.3
19	e15	9.8	e30	33	e1600	184	e30	21	157	51	33	16
20	e12	37	e35	41	e450	1120	e27	21	47	28	18	25
21	e11	36	e30	31	e240	235	e25	8.9	91	16	13	45
22	e10	18	e25	23	e160	e170	e23	7.3	59	14	14	27
23	e11	12	e29	e20	e130	e120	e26	51	31	13	15	21
24	e18	10	e27	e17	e100	e90	e32	71	24	13	137	188
25	e16	11	e23	e15	e86	e70	e24	24	42	12	35	557
26	e15	72	e20	e13	e135	e60	e20	14	41	17	22	333
27	e14	50	e22	e11	e106	e70	e19	19	208	20	20	50
28	e13	23	e21	e10	e85	e52	e18	55	139	95	16	34
29	e15	14	e19	e9.6	e70	e40	e17	35	46	112	12	27
30	e14	8.9	e18	e11	---	e33	e16	16	33	54	10	20
31	e13	---	e17	e13	---	e29	---	11	---	39	11	---
TOTAL	930.5	637.7	3106.9	11455.6	8267	4709	2796	725.9	1560.4	1278	808.0	1847.2
MEAN	30.0	21.3	100	370	285	152	93.2	23.4	52.0	41.2	26.1	61.6
MAX	275	72	1370	6220	2900	1210	851	71	320	312	137	557
MIN	5.1	8.9	6.2	9.6	15	21	16	7.3	7.1	10	7.2	7.9

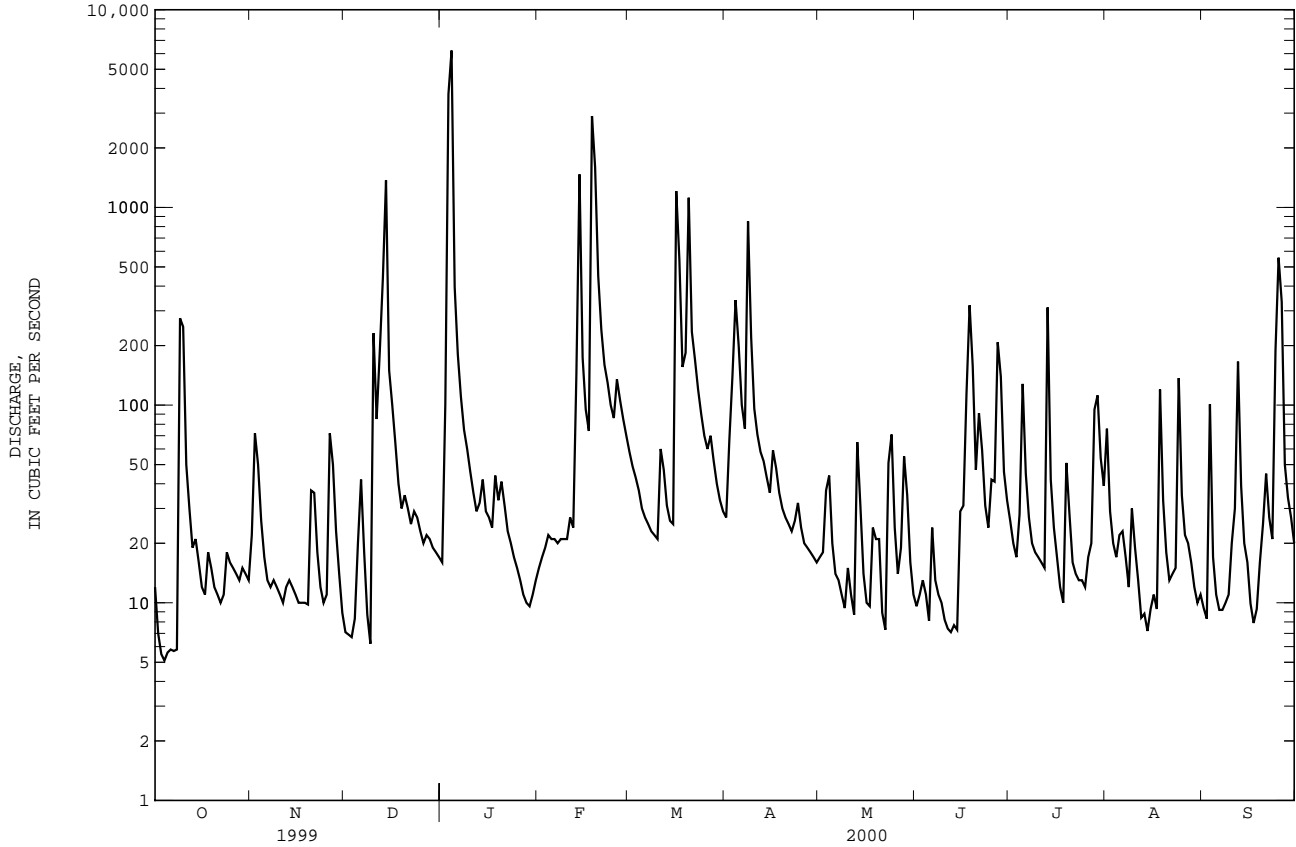
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	1999	2000	2000	2000	1999	2000	1999	2000	2000	2000	1999	2000
MEAN	30.0	21.3	100	405	209	158	89.3	44.8	119	42.6	20.5	42.7
MAX (WY)	2000	2000	2000	1999	2000	1999	2000	2000	1999	1999	2000	2000
MIN (WY)	2000	2000	2000	2000	1999	2000	1999	2000	2000	2000	1999	1999

03302030 POND CREEK AT PENDELTON ROAD NEAR LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL	39837.3		38122.2			
ANNUAL MEAN	109		104		104	
HIGHEST ANNUAL MEAN					104 2000	
LOWEST ANNUAL MEAN					104 2000	
HIGHEST DAILY MEAN	3000	Jan 23	6220	Jan 4	6220	Jan 4 2000
LOWEST DAILY MEAN	3.9	Aug 31	5.1	Oct 4	3.9	Aug 31 1999
ANNUAL SEVEN-DAY MINIMUM	4.5	Aug 25	5.8	Oct 2	4.5	Aug 25 1999
INSTANTANEOUS PEAK FLOW			10500	Jan 4	10500	Jan 4 2000
INSTANTANEOUS PEAK STAGE			19.75	Jan 4	19.75	Jan 4 2000
10 PERCENT EXCEEDS	186		152		170	
50 PERCENT EXCEEDS	32		23		29	
90 PERCENT EXCEEDS	9.0		9.6		10	

e Estimated



SALT RIVER BASIN

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 mi².

PERIOD OF RECORD.--January 1999 to current year.

GAGE.--Water-stage recorder and crest-stage gage.

REMARKS.--Records good except those above 100 ft/s, which are poor.

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 360 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 18	1920	*5,680	*7.61	Mar 16	1145	413	3.54

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

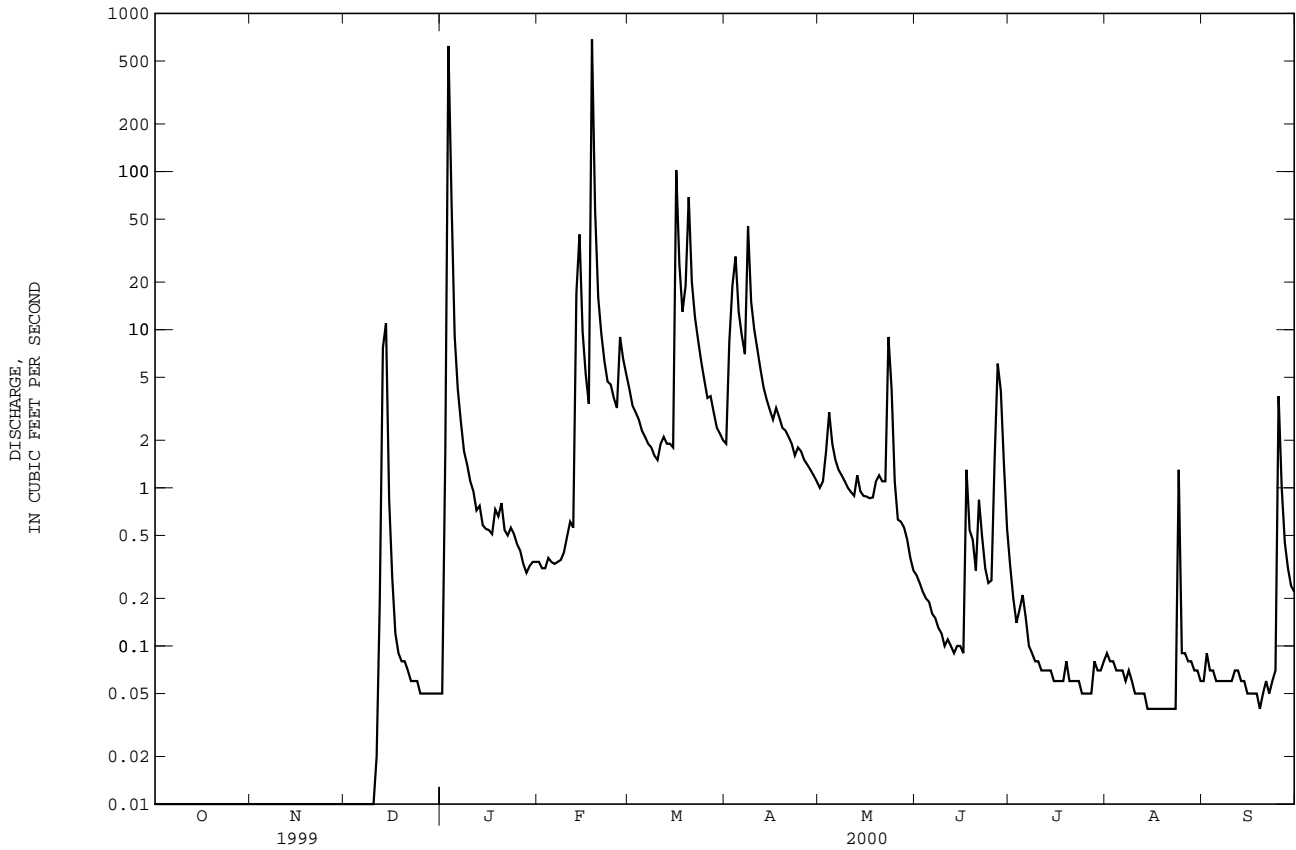
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.05	.34	4.2	1.9	1.0	.28	.32	.09	.06
2	.00	.00	.00	1.7	.31	3.3	8.4	1.1	.25	.20	.08	.09
3	.00	.00	.00	623	.31	3.0	19	1.7	.22	.14	.08	.07
4	.00	.00	.00	64	.36	2.7	29	3.0	.20	.17	.07	.07
5	.00	.00	.00	9.1	.34	2.3	13	1.9	.19	.21	.07	.06
6	.00	.00	.00	4.2	.33	2.1	9.2	1.5	.16	.15	.07	.06
7	.00	.00	.00	2.6	.34	1.9	7.0	1.3	.15	.10	.06	.06
8	.00	.00	.00	1.7	.35	1.8	45	1.2	.13	.09	.07	.06
9	.00	.00	.00	1.4	.39	1.6	15	1.1	.12	.08	.06	.06
10	.00	.00	.00	1.1	.49	1.5	10	1.0	.10	.08	.05	.06
11	.00	.00	.02	.95	.61	1.9	7.5	.94	.11	.07	.05	.07
12	.00	.00	.19	.72	.56	2.1	5.6	.89	.10	.07	.05	.07
13	.00	.00	7.7	.77	17	1.9	4.3	1.2	.09	.07	.05	.06
14	.00	.00	11	.58	40	1.9	3.6	.95	.10	.07	.04	.06
15	.00	.00	.85	.55	9.7	1.8	3.1	.89	.10	.06	.04	.05
16	.00	.00	.27	.54	5.2	102	2.7	.88	.09	.06	.04	.05
17	.00	.00	.12	.51	3.4	26	3.2	.86	1.3	.06	.04	.05
18	.00	.00	.09	.73	685	13	2.8	.87	.54	.06	.04	.05
19	.00	.00	.08	.66	57	19	2.4	1.1	.47	.08	.04	.04
20	.00	.00	.08	.80	16	69	2.3	1.2	.30	.06	.04	.05
21	.00	.00	.07	.54	9.4	20	2.1	1.1	.84	.06	.04	.06
22	.00	.00	.06	.50	6.3	12	1.9	1.1	.49	.06	.04	.05
23	.00	.00	.06	.56	4.7	8.6	1.6	9.0	.31	.06	.04	.06
24	.00	.00	.06	.51	4.5	6.3	1.8	4.2	.25	.05	1.3	.07
25	.00	.00	.05	.44	3.7	4.8	1.7	1.1	.26	.05	.09	3.8
26	.00	.00	.05	.40	3.2	3.7	1.5	.63	1.5	.05	.09	1.0
27	.00	.00	.05	.33	9.0	3.8	1.4	.61	6.1	.05	.08	.45
28	.00	.00	.05	.29	6.5	3.0	1.3	.56	4.1	.08	.08	.31
29	.00	.00	.05	.32	5.2	2.4	1.2	.47	1.4	.07	.07	.24
30	.00	.00	.05	.34	---	2.2	1.1	.36	.55	.07	.07	.22
31	.00	---	.05	.34	---	2.0	---	.30	---	.08	.06	---
TOTAL	0.00	0.00	21.00	720.23	890.53	331.8	210.6	44.01	20.80	2.88	3.09	7.46
MEAN	.000	.000	.68	23.2	30.7	10.7	7.02	1.42	.69	.093	.10	.25
MAX (WY)	.00	.00	11	623	685	102	45	9.0	6.1	.32	1.3	3.8
MIN	.00	.00	.00	.05	.31	1.5	1.1	.30	.09	.05	.04	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	1999	2000	2000	1999	1999	1999	1999	2000	2000	2000	1999	1999
MEAN	.000	.000	.68	17.3	18.8	10.2	5.52	2.21	2.82	.23	.063	.12
MAX (WY)	.000	.000	.68	23.2	30.7	10.7	7.02	3.00	4.95	.38	.10	.25
MIN (WY)	2000	2000	2000	2000	2000	2000	2000	1999	1999	1999	2000	2000
MIN (WY)	.000	.000	.68	11.4	6.46	9.63	4.01	1.42	.69	.093	.026	.000
MIN (WY)	2000	2000	2000	1999	1999	1999	1999	2000	2000	2000	1999	1999

03302050 BRIER CREEK AT PENDLETON ROAD NEAR LOUISVILLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL	1227.55		2252.40			
ANNUAL MEAN	3.36		6.15		6.15	
HIGHEST ANNUAL MEAN					6.15	2000
LOWEST ANNUAL MEAN					6.15	2000
HIGHEST DAILY MEAN	127	Jan 23	685	Feb 18	685	Feb 18 2000
LOWEST DAILY MEAN	.00	Aug 21	.00	Oct 1	.00	Aug 21 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 21	.00	Oct 1	.00	Aug 21 1999
INSTANTANEOUS PEAK FLOW			5680	Feb 18	2410	Jun 28 1999
INSTANTANEOUS PEAK STAGE			7.61	Feb 18	7.61	Feb 18 2000
10 PERCENT EXCEEDS	7.6		5.8		7.6	
50 PERCENT EXCEEDS	.28		.19		.39	
90 PERCENT EXCEEDS	.00		.00		.00	



OTTER CREEK BASIN

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 mi².

PERIOD OF RECORD.--January 1999 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Records faier 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 3,900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 4	0245	*8,810	8.24	Feb 19	0015	5,620	7.41

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	6.9	12	11	12	25	127	55	36	34	27	37	25
2	6.0	17	11	16	24	104	104	41	31	25	28	25
3	5.6	15	12	1450	25	92	266	88	29	25	36	23
4	5.8	9.0	12	2540	25	85	442	258	28	71	32	24
5	7.4	11	15	703	24	73	244	107	28	62	27	23
6	6.5	10	18	353	24	63	180	73	27	205	25	22
7	7.1	7.0	14	224	24	59	142	55	25	78	23	22
8	6.7	7.0	12	148	24	53	325	49	24	42	126	21
9	157	8.1	12	121	24	50	212	45	24	33	96	22
10	118	12	72	99	25	45	166	41	24	28	60	21
11	40	11	45	77	26	49	142	38	23	27	40	21
12	22	11	126	62	25	48	128	35	22	29	31	24
13	16	11	402	56	152	41	110	49	21	28	26	31
14	13	11	489	46	966	38	102	39	e20	25	23	25
15	11	10	139	42	335	37	94	34	e19	24	23	22
16	9.7	9.5	78	40	195	529	85	32	e62	22	21	21
17	9.6	9.6	55	37	131	449	85	30	e200	21	41	20
18	9.3	9.9	39	39	1780	227	80	29	e310	20	21	20
19	11	10	35	37	1850	213	70	29	e160	28	22	20
20	13	14	33	38	650	743	66	30	e74	25	20	21
21	12	14	25	33	387	431	62	29	e150	21	19	23
22	12	13	21	31	278	287	54	28	e84	21	18	21
23	11	12	19	31	207	213	51	432	e40	19	161	23
24	11	11	18	29	179	176	51	467	e33	19	314	45
25	11	11	18	27	154	143	62	165	e54	18	96	199
26	9.9	22	19	26	133	120	51	90	e98	19	53	117
27	6.3	19	16	25	186	112	44	69	e260	17	43	43
28	10	15	13	25	163	97	43	58	e130	99	36	32
29	11	13	13	26	139	78	42	48	e60	88	30	26
30	11	12	13	26	---	69	39	40	e44	63	29	24
31	11	---	12	25	---	60	---	36	---	44	26	---
MEAN	19.3	11.9	58.6	208	282	158	120	83.9	71.3	41.1	50.4	33.5
MAX	157	22	489	2540	1850	743	442	467	310	205	314	199
MIN	5.6	7.0	11	12	24	37	39	28	19	17	18	20

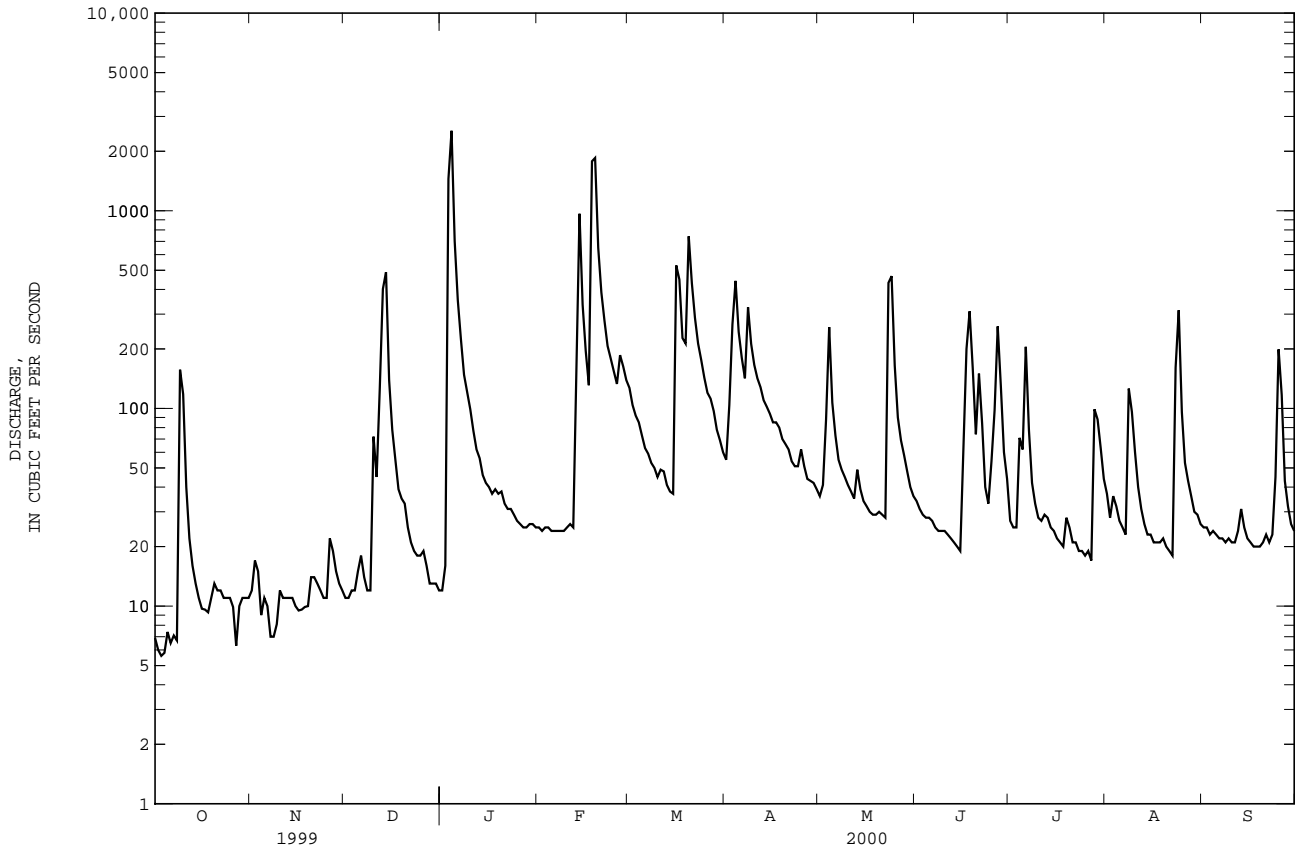
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	1999	2000	2000	2000	1999	2000	1999	2000	1999	2000	2000	2000
MEAN	19.3	11.9	58.6	266	226	177	132	134	57.9	31.3	30.6	19.7
MAX	19.3	11.9	58.6	324	282	195	144	185	71.3	41.1	50.4	33.5
(WY)	2000	2000	2000	1999	2000	1999	1999	1999	2000	2000	2000	2000
MIN	19.3	11.9	58.6	208	168	158	120	83.9	44.6	21.5	10.9	5.82
(WY)	2000	2000	2000	2000	1999	2000	2000	2000	1999	1999	1999	1999

03302110 OTTER CREEK AT OTTER CREEK PARK NEAR ROCK HAVEN, KY--Continued

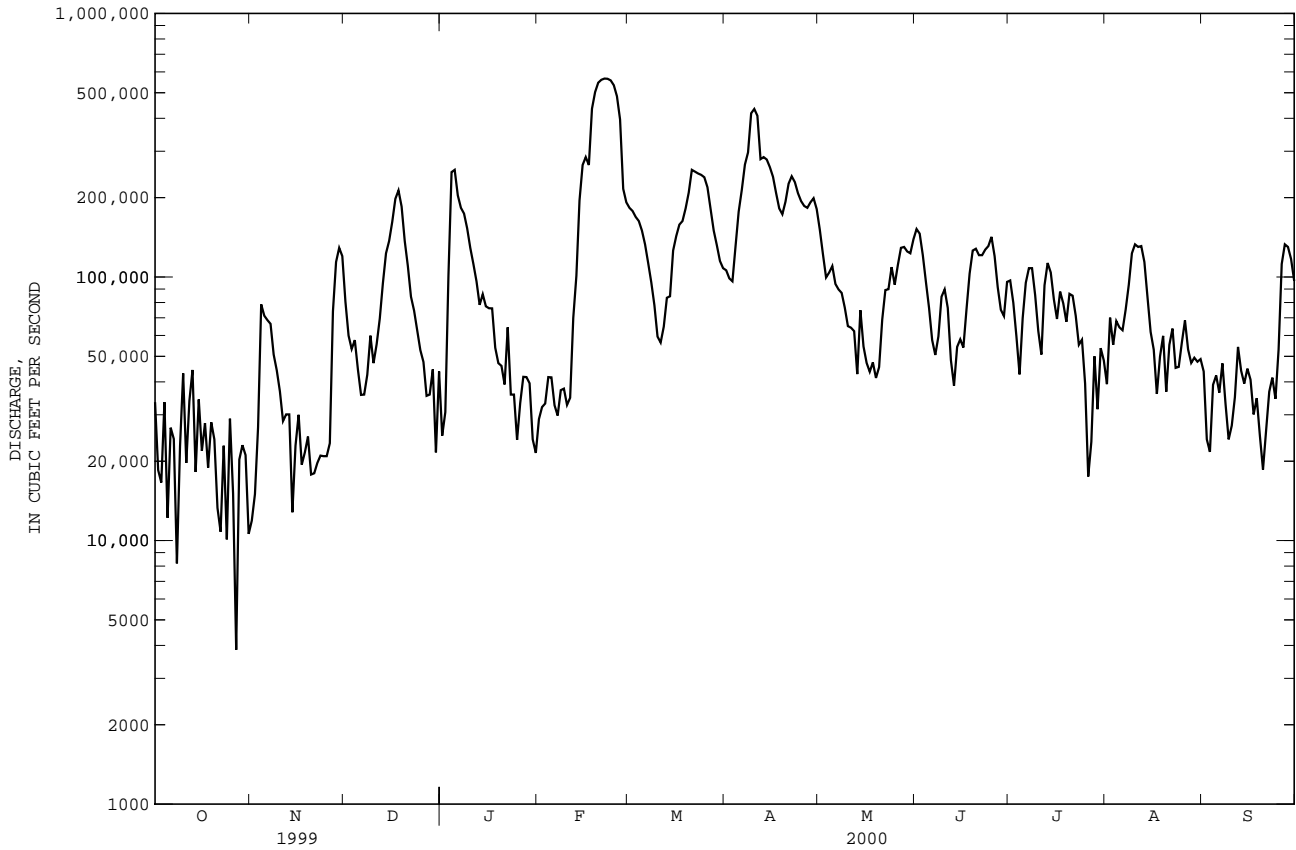
SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL MEAN	99.1		94.2		94.2	
HIGHEST ANNUAL MEAN					94.2 2000	
LOWEST ANNUAL MEAN					94.2 2000	
HIGHEST DAILY MEAN	2760	Jan 23	2540	Jan 4	2760	Jan 23 1999
LOWEST DAILY MEAN	4.9	Sep 6	5.6	Oct 3	4.9	Sep 6 1999
ANNUAL SEVEN-DAY MINIMUM	5.4	Sep 10	6.4	Oct 2	5.4	Sep 10 1999
INSTANTANEOUS PEAK FLOW			8810	Jan 4	8810	Jan 4 2000
INSTANTANEOUS PEAK STAGE			8.24	Jan 4	8.24	Jan 4 2000
10 PERCENT EXCEEDS	219		199		221	
50 PERCENT EXCEEDS	31		31		38	
90 PERCENT EXCEEDS	6.8		11		10	

e Estimated



03303280 OHIO RIVER AT CANNELTON DAM, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1976 - 2000	
ANNUAL TOTAL	32426910		37063840		128400	
ANNUAL MEAN	88840		101300		188900	
HIGHEST ANNUAL MEAN					1979	
LOWEST ANNUAL MEAN					72150	
HIGHEST DAILY MEAN	424000	Jan 25	566000	Feb 22	735000	Mar 8 1997
LOWEST DAILY MEAN	3600	Sep 5	3850	Oct 27	3180	Aug 28 1995
ANNUAL SEVEN-DAY MINIMUM	8500	Sep 23	15000	Oct 21	7650	Jul 12 1988
INSTANTANEOUS PEAK FLOW			567000		736000	
INSTANTANEOUS PEAK STAGE			44.69		52.42	
10 PERCENT EXCEEDS	238000		213000		283000	
50 PERCENT EXCEEDS	46900		69100		91400	
90 PERCENT EXCEEDS	10700		23300		22600	



OHIO RIVER MAIN STEM

03303280 OHIO RIVER AT CANNELTON DAM, KY--Continued

(National stream-quality accounting network station)

WATER-QUALITY RECORDS

LOCATION.--Samples are collected 2.0 mi² 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 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS (CM) (50624)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	
NOV 08...	1250	ENVIRONMENTAL	49400	.063	580	7.4	16.3	3.5	8.4	86	140
DEC 07...	1230	ENVIRONMENTAL	35700	.063	594	7.5	11.4	2.2	9.7	91	130
07...	1238	FIELD BLANK	--	--	--	--	--	--	--	--	--
FEB 23...	1300	ENVIRONMENTAL	600000	.117	272	7.4	6.1	200	11.5	93	92
MAR 15...	1310	ENVIRONMENTAL	130000	.074	354	7.6	10.3	19	10.8	99	120
15...	1320	REPLICATE	--	.074	--	--	--	20	--	--	120
APR 06...	1240	ENVIRONMENTAL	214000	.086	350	7.4	12.5	32	9.9	96	130
19...	1300	ENVIRONMENTAL	171000	.092	308	7.9	12.5	40	10.2	93	120
MAY 11...	1320	ENVIRONMENTAL	58200	.055	311	7.5	19.5	1.9	9.0	101	120
11...	1328	FIELD BLANK	--	--	--	--	--	--	--	--	--
24...	1410	ENVIRONMENTAL	112000	.060	359	7.3	21.7	7.0	8.5	98	130
24...	1418	FIELD BLANK	--	--	--	--	--	--	--	--	M
JUN 09...	1400	ENVIRONMENTAL	84900	.059	437	7.6	24.3	3.5	7.9	96	160
21...	1320	ENVIRONMENTAL	120000	.083	335	7.2	25.4	24	6.3	82	140
21...	1328	FIELD BLANK	--	--	--	--	--	--	--	--	--
JUL 21...	1210	ENVIRONMENTAL	86200	.088	377	7.5	27.9	16	6.2	81	140
AUG 11...	1410	ENVIRONMENTAL	107000	.085	416	7.3	28.1	3.8	7.5	98	140
11...	1420	REPLICATE	--	.083	--	--	--	4.5	--	--	140

03303280 OHIO RIVER AT CANNELTON DAM, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3 CACO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, TOTAL (MG/L AS N) (00600)
NOV 08...	39	11	39	3.4	87	72	52	120	.30	2.8	336	2.1
DEC 07...	35	10	33	3.1	76	62	56	120	.29	2.6	347	2.0
07...	.003	<.001	<.025	--	--	--	--	--	--	<.020	--	--
FEB 23...	26	6.2	15	2.6	49	40	22	40	.13	5.1	158	3.1
MAR 15...	32	8.3	18	2.3	62	51	29	57	.12	5.4	209	2.1
15...	34	8.7	19	2.3	--	--	30	57	.13	5.6	210	2.1
APR 06...	37	9.8	16	2.1	70	57	23	56	.20	5.5	209	2.0
19...	33	8.7	13	2.0	53	43	17	51	.17	5.8	182	2.2
MAY 11...	31	9.4	14	2.0	53	44	16	56	.13	5.1	185	1.1
11...	--	--	--	--	--	--	--	--	--	--	--	1.1
24...	34	11	17	2.3	90	74	21	59	.13	3.4	206	1.4
24...	.011	.002	<.025	--	--	--	--	--	--	<.020	--	--
JUN 09...	41	13	25	2.4	93	76	28	87	.18	2.7	262	1.5
21...	37	11	21	2.5	90	74	25	67	.16	4.4	236	2.1
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 21...	36	11	18	2.8	72	59	22	59	.16	4.3	212	1.5
AUG 11...	36	12	21	3.2	88	72	26	68	.24	4.9	238	1.6
11...	36	12	21	3.1	--	--	25	69	.20	4.7	238	1.6

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)
NOV 08...	1.9	.41	.26	.024	1.50	.155	1.48	.41	.56	.049	.037	.09
DEC 07...	2.0	.32	.24	.022	1.56	.160	1.54	.40	.48	.060	.060	.12
07...	--	--	--	<.001	.012	.011	--	--	--	--	--	--
FEB 23...	1.7	1.6	.17	.015	1.43	.097	1.42	.27	1.7	.778	.042	.10
MAR 15...	2.0	.31	.18	.028	1.67	.126	1.64	.31	.44	.075	.032	.09
15...	2.0	.29	.17	.029	1.67	.131	1.64	.31	.42	.076	.032	.09
APR 06...	1.7	.54	.21	.026	1.39	.059	1.36	.27	.60	.181	.035	.11
19...	1.8	--	--	.024	1.51	<.020	1.49	.26	.65	.177	.030	.07
MAY 11...	1.1	.20	.15	.013	.909	.020	.896	.17	.22	.028	.011	.05
11...	1.1	.20	.15	.013	.909	.020	.896	.17	.22	.028	.011	.05
24...	1.3	.31	.19	.021	1.05	.055	1.03	.25	.37	.058	.024	.05
24...	--	--	--	<.001	<.005	.003	--	--	--	--	--	--
JUN 09...	1.4	--	--	.013	1.26	<.020	1.25	.18	.26	.050	.030	.06
21...	2.0	.36	.23	.042	1.70	.021	1.66	.25	.38	.091	.047	.10
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 21...	1.5	.26	.27	.032	1.23	.022	1.20	.29	.28	.077	.054	.13
AUG 11...	1.5	--	--	.015	1.24	<.020	1.23	.24	.33	.093	.059	.15
11...	1.5	--	--	.015	1.25	<.020	1.24	.23	.34	.096	.060	.15

OHIO RIVER MAIN STEM

03303280 OHIO RIVER AT CANNELTON DAM, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	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)
NOV 08...	.20	6.6	.08	.028	--	--	<2	--	--	85	--	--
DEC 07...	.21	6.8	.07	.040	--	--	<2	--	--	83	--	--
07...	.01	--	--	<.001	<.30	<.20	--	<.20	<.20	<2.0	<.30	<.20
FEB 23...	.12	6.3	.05	.034	8.5	<1.0	<2	32	<1.0	27	<1.0	<1.0
MAR 15...	.16	7.3	.09	.028	--	--	<2	--	--	33	--	--
15...	.17	7.2	.10	.028	--	--	<2	--	--	38	--	--
APR 06...	.08	6.0	.09	.035	8.4	<1.0	<2	35	<1.0	33	<1.0	<.80
19...	--	6.6	.08	.023	--	--	<2	--	--	28	--	--
MAY 11...	.03	4.0	.04	.015	--	--	<2	--	--	28	--	--
11...	.03	4.0	.04	.015	--	--	--	--	--	--	--	--
24...	.07	4.6	.07	.017	--	--	<2	--	--	43	--	--
24...	M	--	--	<.001	<.30	<.20	--	<.20	<.20	<2.0	<.30	<.20
JUN 09...	--	5.5	.04	.020	14	<1.0	<2	47	<1.0	54	<1.0	<.80
21...	.03	7.3	.14	.034	--	--	<2	--	--	47	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 21...	.03	5.3	.11	.042	6.3	<1.0	E1	41	<1.0	62	<1.0	<.80
AUG 11...	--	5.4	.05	.050	--	--	<2	--	--	55	--	--
11...	--	5.5	.05	.050	--	--	<2	--	--	58	--	--
DATE	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)	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)	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)
NOV 08...	--	--	<10	--	10	--	--	--	<2	--	248	--
DEC 07...	--	--	<10	--	8	--	--	--	<2	--	225	--
07...	<.20	<.20	<3.0	<.30	--	<.10	<.20	<.50	--	<.20	<.10	<.10
FEB 23...	<1.0	1.6	20	<1.0	E4	12	1.5	2.1	<2	<1.0	131	--
MAR 15...	--	--	E5.4	--	4	--	--	--	<2	--	181	--
15...	--	--	E6.0	--	4	--	--	--	<2	--	188	--
APR 06...	<1.0	1.6	E8.1	<1.0	5	3.7	2.0	1.2	<2	<1.0	212	--
19...	--	--	E6.2	--	4	--	--	--	<2	--	201	--
MAY 11...	--	--	E8.0	--	5	--	--	--	<2	--	200	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	<10	--	E3	--	--	--	<2	--	246	--
24...	<.20	<.20	<3.0	<.30	--	.52	<.20	<.50	--	<.20	<.10	<.10
JUN 09...	<1.0	2.8	<10	<1.0	7	5.1	3.6	1.4	<2	<1.0	279	--
21...	--	--	<10	--	5	--	--	--	<2	--	271	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 21...	<1.0	2.3	<10	<1.0	6	4.5	3.3	<1.0	E1	<1.0	231	--
AUG 11...	--	--	<10	--	7	--	--	--	<2	--	250	--
11...	--	--	<10	--	7	--	--	--	<2	--	249	--

OHIO RIVER MAIN STEM

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03303280 OHIO RIVER AT CANNELTON DAM, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	CARBON ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO-CHLOR, WATER, FLTRD REC (UG/L) (49260)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)
NOV 08...	<10	--	--	2.9	.30	<.002	<.0020	.096	<.0020	<.0020	<.0040
DEC 07...	<10	--	--	2.9	.20	.005	<.0075	.056	<.0020	<.0020	<.0040
07...	--	<.50	<.20	--	--	--	--	--	--	--	--
FEB 23...	<10	<1.0	<1.0	3.8	>5.0	<.002	<.0020	.029	<.0020	<.0020	E.0180
MAR 15...	<10	--	--	2.7	.80	<.002	<.0020	.034	<.0020	<.0020	<.0040
15...	<10	--	--	2.6	.50	<.002	<.0020	.032	<.0020	<.0020	<.0040
APR 06...	<10	1.3	<1.0	3.2	1.9	<.002	<.0020	.091	<.0020	<.0020	<.0040
19...	<10	--	--	3.0	1.4	<.002	.0102	.068	<.0020	<.0020	E.0037
MAY 11...	<10	--	--	44	.24	<.002	.0088	.063	<.0020	<.0020	<.0040
11...	--	--	--	<.33	<.20	<.002	<.0020	<.001	<.0020	<.0020	<.0040
24...	<10	--	--	2.3	.55	E.003	.0267	.226	<.0020	<.0020	<.0040
24...	--	1.9	<.20	--	--	--	--	--	--	--	--
JUN 09...	<10	3.9	<1.0	2.3	.51	.008	.0663	.492	<.0020	<.0020	<.0040
21...	<10	--	--	3.2	.63	.009	.137	1.10	<.0020	<.0020	<.0040
21...	--	--	--	<.33	<.20	--	--	--	--	--	--
JUL 21...	<10	1.4	<1.0	3.0	.33	<.002	.106	.411	<.0020	<.0020	<.0040
AUG 11...	<10	--	--	3.0	.62	<.002	.0085	.206	<.0020	<.0020	<.0040
11...	<10	--	--	2.9	.63	<.002	<.0100	.219	<.0020	<.0020	<.0040
DATE	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)
NOV 08...	<.0040	E.0161	<.002	<.001	<.0030	<.004	<.005	<.004	.046	<.0060	<.004
DEC 07...	<.0040	E.0134	E.004	<.001	<.0030	<.004	<.005	<.004	.024	<.0060	<.004
07...	--	--	--	--	--	--	--	--	--	--	--
FEB 23...	<.0040	E.0114	<.002	<.001	<.0030	<.004	<.005	<.075	.027	<.0060	<.004
MAR 15...	<.0040	E.0123	<.002	<.001	<.0030	<.004	<.005	<.004	.028	<.0060	<.004
15...	<.0040	E.0119	<.002	<.001	<.0030	<.004	<.005	<.004	.026	<.0060	<.004
APR 06...	<.0040	E.0157	.005	<.001	<.0030	<.004	<.005	<.004	.023	<.0060	<.004
19...	.0076	E.0187	.006	<.001	<.0030	<.004	<.005	.010	.052	<.0060	<.004
MAY 11...	<.0040	E.0113	<.002	<.001	<.0030	<.004	<.005	<.004	.024	<.0060	<.004
11...	<.0040	<.0020	<.002	<.001	<.0030	<.004	<.005	<.004	<.002	<.0060	<.004
24...	.0060	E.0191	E.002	<.001	<.0030	<.004	<.005	<.004	.072	<.0060	<.004
24...	--	--	--	--	--	--	--	--	--	--	--
JUN 09...	.0092	E.0494	.007	<.001	<.0030	<.004	<.005	<.007	.118	<.0060	<.004
21...	.0228	E.111	.008	<.001	<.0030	<.004	<.005	<.004	.232	<.0060	<.004
21...	--	--	--	--	--	--	--	--	--	--	--
JUL 21...	.0081	E.0553	.007	<.001	<.0030	<.004	<.005	<.004	.100	<.0060	<.004
AUG 11...	<.0100	E.0486	.006	<.001	<.0030	<.004	<.005	<.004	.043	<.0060	<.004
11...	<.0100	E.0511	.006	<.001	<.0030	<.004	<.005	<.004	.043	<.0060	<.004

OHIO RIVER MAIN STEM

03303280 OHIO RIVER AT CANNELTON DAM, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)
NOV											
08...	<.0070	.0385	.0282	<.0020	<.0030	<.0100	<.0020	<.0030	<.0170	<.0040	<.0040
DEC											
07...	<.0070	E.0158	.0141	<.0020	<.0030	E.0151	<.0020	<.0030	<.0170	<.0040	<.0040
07...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	<.0070	E.0039	.0104	<.0020	E.0248	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
MAR											
15...	<.0070	<.0180	<.0050	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
15...	<.0070	<.0180	<.0050	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
APR											
06...	<.0070	<.0180	.0608	<.0020	E.0044	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
19...	<.0070	E.0083	.0203	<.0020	E.0062	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
MAY											
11...	<.0070	E.0091	.0182	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
11...	<.0070	<.0180	<.0050	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
24...	<.0070	E.0068	.0180	<.0020	<.0030	<.0150	<.0020	<.0030	<.0170	<.0040	<.0040
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
09...	<.0070	E.0154	.0630	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
21...	<.0070	.0214	.175	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
21...	--	--	--	--	--	--	--	--	--	--	--
JUL											
21...	<.0070	E.0150	.0521	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
AUG											
11...	<.0070	E.0179	.0345	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
11...	<.0070	.0193	.0355	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
DATE	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
NOV											
08...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
DEC											
07...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
07...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
MAR											
15...	<.0030	<.0020	<.0020	<.0100	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
15...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
APR											
06...	<.0030	<.0050	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
19...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
MAY											
11...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
11...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
24...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
09...	<.0030	<.0040	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
21...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
21...	--	--	--	--	--	--	--	--	--	--	--
JUL											
21...	<.0030	<.0100	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
AUG											
11...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
11...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030

03303280 OHIO RIVER AT CANNELTON DAM, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV											
08...	<.0040	<.0130	E.0183	<.0070	<.0130	<.0010	<.0020	<.0020	7	934	98
DEC											
07...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	3	289	92
07...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	<.0040	<.0130	E.0047	<.0070	<.0130	<.0010	<.0020	<.0020	626	1010000	85
MAR											
15...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	33	11600	99
15...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	--	--	--
APR											
06...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	105	60700	97
19...	<.0040	<.0130	E.0092	<.0070	<.0130	<.0010	E.0030	<.0020	103	47600	99
MAY											
11...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	6	943	91
11...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	--	--	--
24...	<.0040	<.0130	E.0077	<.0070	<.0130	<.0010	<.0020	<.0020	19	5750	95
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
09...	<.0040	<.0130	E.0093	<.0070	<.0130	<.0010	<.0020	<.0020	10	2290	97
21...	<.0040	<.0130	E.0097	<.0070	<.0130	<.0010	<.0020	<.0020	25	8100	99
21...	--	--	--	--	--	--	--	--	--	--	--
JUL											
21...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	E.0012	<.0020	17	3960	100
AUG											
11...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	31	8960	99
11...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	--	--	--

GREEN RIVER BASIN

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.--682 mi².

WATER-QUALITY RECORDS

INSTRUMENTATION.--Temperature recorder.

REMARKS.--Records fair.

COOPERATION.--Green County.

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, 29.8°C, May 18, minimum, 3.2°C, Feb. 1.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.3	15.9	16.1	14.0	13.3	13.7	11.5	11.4	11.4	7.4	7.3	7.3
2	16.2	15.9	16.0	13.3	13.1	13.2	11.4	11.2	11.2	7.3	7.1	7.2
3	16.1	15.9	16.0	13.1	12.8	13.0	11.2	11.1	11.1	7.1	7.0	7.0
4	16.1	16.0	16.1	12.9	12.7	12.8	11.1	11.0	11.0	7.2	7.0	7.2
5	16.0	15.7	15.8	---	---	---	11.0	10.9	11.0	7.2	7.0	7.0
6	15.8	15.4	15.6	13.0	12.9	12.9	10.9	10.7	10.8	7.0	5.3	6.2
7	15.7	15.4	15.5	12.9	12.8	12.9	10.7	10.5	10.6	5.3	5.2	5.2
8	15.8	15.6	15.7	12.9	12.9	12.9	10.5	10.4	10.4	5.2	5.0	5.1
9	---	---	---	13.0	12.9	12.9	10.4	10.3	10.3	5.2	5.2	5.2
10	---	---	---	12.9	12.9	12.9	10.3	10.1	10.2	5.2	5.1	5.1
11	15.8	15.7	15.8	12.9	12.9	12.9	10.1	10.0	10.0	5.7	5.1	5.2
12	15.8	15.7	15.8	13.0	12.9	13.0	10.0	9.9	10.0	5.2	5.1	5.1
13	15.8	15.7	15.7	13.0	12.9	13.0	9.9	9.9	9.9	5.1	4.9	5.1
14	15.7	15.4	15.6	13.0	12.9	12.9	9.9	9.8	9.9	6.0	4.9	5.3
15	15.5	15.2	15.3	12.9	12.9	12.9	9.8	9.6	9.7	6.2	6.0	6.1
16	15.5	15.4	15.4	12.9	12.8	12.9	9.6	8.7	9.1	6.2	6.1	6.1
17	15.5	15.3	15.4	12.9	12.8	12.8	8.7	8.7	8.7	6.1	5.9	6.0
18	15.3	14.9	15.1	12.8	12.6	12.6	8.7	8.6	8.6	5.9	5.7	5.8
19	15.0	14.7	14.8	12.6	12.6	12.6	8.6	8.6	8.6	6.5	5.6	6.0
20	14.8	14.4	14.6	12.7	12.6	12.7	8.6	8.4	8.4	6.5	6.1	6.4
21	14.6	14.3	14.4	12.7	12.6	12.7	8.4	8.1	8.3	6.1	5.7	5.8
22	14.5	14.4	14.5	12.9	12.6	12.7	8.1	7.9	8.0	5.7	5.4	5.6
23	14.5	14.1	14.3	12.7	12.6	12.6	8.1	7.8	8.0	5.4	5.3	5.4
24	14.1	13.7	13.8	12.6	12.6	12.6	8.1	7.9	8.1	5.3	5.0	5.2
25	13.8	13.5	13.6	12.6	12.5	12.5	7.9	7.6	7.7	5.0	4.7	4.8
26	13.9	13.6	13.7	12.5	12.3	12.4	7.6	7.4	7.5	4.7	4.5	4.6
27	13.9	13.8	13.9	12.3	12.2	12.2	7.4	7.0	7.1	---	---	---
28	13.9	13.7	13.8	12.2	12.0	12.1	7.9	6.9	7.3	---	---	---
29	14.0	13.8	13.9	12.0	11.8	11.9	7.9	7.9	7.9	4.8	4.6	4.7
30	14.0	13.9	14.0	11.8	11.5	11.7	7.9	7.6	7.7	4.9	4.7	4.8
31	14.0	13.9	13.9	---	---	---	7.6	7.4	7.5	4.9	3.3	4.3
MONTH	16.3	13.5	15.0	14.0	11.5	12.7	11.5	6.9	9.2	7.4	3.3	5.7

GREEN RIVER BASIN

03306500 GREEN RIVER AT GREENSBURG, KY

LOCATION.--Lat 37°15'13", long 85°30'11", 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 mi².

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--Water-temperature: December 22, 1999 to September 30, 2000.

GAGE.--Water-temperature recorder.

REMARKS.--Records fair.

COOPERATION.--Green County.

EXTREMES FOR PERIOD OF DAILY RECORD.--Maximum water-temperature, 30.6°C , Sept. 3, 2000; minimum water-temperature, 0.0°C , Jan. 26-29 and Feb. 1, 2.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	7.7	7.6	7.7
2	---	---	---	---	---	---	---	---	---	7.8	7.6	7.7
3	---	---	---	---	---	---	---	---	---	7.9	7.8	7.9
4	---	---	---	---	---	---	---	---	---	8.1	7.7	8.0
5	---	---	---	---	---	---	---	---	---	7.7	7.0	7.4
6	---	---	---	---	---	---	---	---	---	7.0	6.4	6.7
7	---	---	---	---	---	---	---	---	---	6.4	3.7	4.9
8	---	---	---	---	---	---	---	---	---	5.5	5.0	5.4
9	---	---	---	---	---	---	---	---	---	5.5	5.0	5.4
10	---	---	---	---	---	---	---	---	---	5.7	5.4	5.5
11	---	---	---	---	---	---	---	---	---	5.7	5.6	5.6
12	---	---	---	---	---	---	---	---	---	5.7	5.1	5.3
13	---	---	---	---	---	---	---	---	---	5.4	5.2	5.3
14	---	---	---	---	---	---	---	---	---	5.3	4.9	5.1
15	---	---	---	---	---	---	---	---	---	4.9	4.5	4.6
16	---	---	---	---	---	---	---	---	---	4.6	4.4	4.5
17	---	---	---	---	---	---	---	---	---	4.6	4.1	4.3
18	---	---	---	---	---	---	---	---	---	4.1	3.8	3.9
19	---	---	---	---	---	---	---	---	---	3.8	3.5	3.6
20	---	---	---	---	---	---	---	---	---	3.5	2.9	3.3
21	---	---	---	---	---	---	---	---	---	2.9	2.1	2.5
22	---	---	---	---	---	---	10.7	10.3	10.5	2.1	1.7	1.9
23	---	---	---	---	---	---	10.3	9.9	10.1	1.8	1.6	1.7
24	---	---	---	---	---	---	9.9	9.4	9.7	1.7	1.2	1.4
25	---	---	---	---	---	---	9.4	8.7	9.1	1.2	.7	.9
26	---	---	---	---	---	---	8.7	8.4	8.6	.7	.2	.4
27	---	---	---	---	---	---	8.4	8.1	8.3	.2	.0	.1
28	---	---	---	---	---	---	8.1	7.9	8.0	.0	.0	.0
29	---	---	---	---	---	---	7.9	7.8	7.9	.3	.0	.1
30	---	---	---	---	---	---	7.8	7.7	7.8	.6	.2	.4
31	---	---	---	---	---	---	7.8	7.7	7.7	.7	.5	.6
MONTH	---	---	---	---	---	---	10.7	7.7	8.8	8.1	.0	3.9

GREEN RIVER BASIN

03307000 RUSSELL CREEK NEAR COLUMBIA, KY

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

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

SURFACE-WATER 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.

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 information by local residents.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 20	0800	*8,760	*17.20	No other peak greater than base discharge.			

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	8.1	11	20	e21	132	162	99	95	69	41	212	11
2	6.7	26	17	e20.5	90	137	96	88	56	34	180	9.3
3	6.2	41	16	e20	82	e116	151	81	47	30	267	9.0
4	e5.9	48	15	194	72	e100	727	97	41	59	166	36
5	e5.8	29	15	193	66	e90	428	111	41	74	128	22
6	e5.7	19	17	87	57	e80	267	87	47	90	86	17
7	e5.6	15	20	60	52	e70	196	71	39	103	62	12
8	e5.6	12	23	49	49	e69	455	63	34	55	48	11
9	29	e11	20	46	46	67	431	56	30	39	57	9.2
10	130	e10	39	56	45	e60	272	51	28	31	115	8.5
11	68	e9.5	86	64	47	e70	236	46	25	26	153	8.9
12	34	e8.9	57	50	52	e85	664	43	24	57	79	10
13	22	e8.5	421	46	193	e115	430	42	22	72	52	10
14	13	e8.3	330	47	1550	98	312	42	22	46	31	9.2
15	8.5	e8.2	165	44	571	85	242	37	22	33	31	9.0
16	7.6	e8.1	e105	40	289	110	194	34	71	26	27	8.8
17	e7.1	e8.1	e66	38	182	459	172	32	68	21	24	8.0
18	e6.8	e8.0	e50	45	627	266	166	32	47	18	21	6.9
19	e6.6	e8.0	e40	65	1720	1940	142	31	69	18	18	5.3
20	e6.5	e8.0	e33	68	646	6400	127	32	87	22	16	4.6
21	e6.4	e8.0	e30	63	375	1350	127	32	74	30	15	3.6
22	e6.3	e9.0	31	53	269	730	114	33	313	24	13	3.5
23	e6.2	e10	29	52	215	489	102	80	126	18	12	4.9
24	e6.2	e14	29	50	184	360	123	461	68	14	14	6.3
25	e6.1	20	28	45	187	277	425	225	47	12	15	10
26	e6.1	42	26	41	160	217	e290	171	38	11	20	17
27	e6.1	65	e25	37	196	187	e190	201	153	9.4	18	29
28	e6.2	47	e24	35	281	170	e130	209	107	8.7	19	23
29	e6.2	33	e23	44	195	138	127	148	76	17	23	15
30	e8.0	25	e22	200	---	121	108	115	54	106	18	11
31	10	---	e21	214	---	111	---	89	---	515	13	---
TOTAL	462.5	578.6	1843	2087.5	8630	14729	7543	2935	1945	1660.1	1953	349.0
MEAN	14.9	19.3	59.5	67.3	298	475	251	94.7	64.8	53.6	63.0	11.6
MAX	130	65	421	214	1720	6400	727	461	313	515	267	36
MIN	5.6	8.0	15	20	45	60	96	31	22	8.7	12	3.5
CFSM	.09	.11	.34	.39	1.72	2.75	1.45	.55	.37	.31	.36	.07
IN.	.10	.12	.40	.45	1.86	3.17	1.62	.63	.42	.36	.42	.08

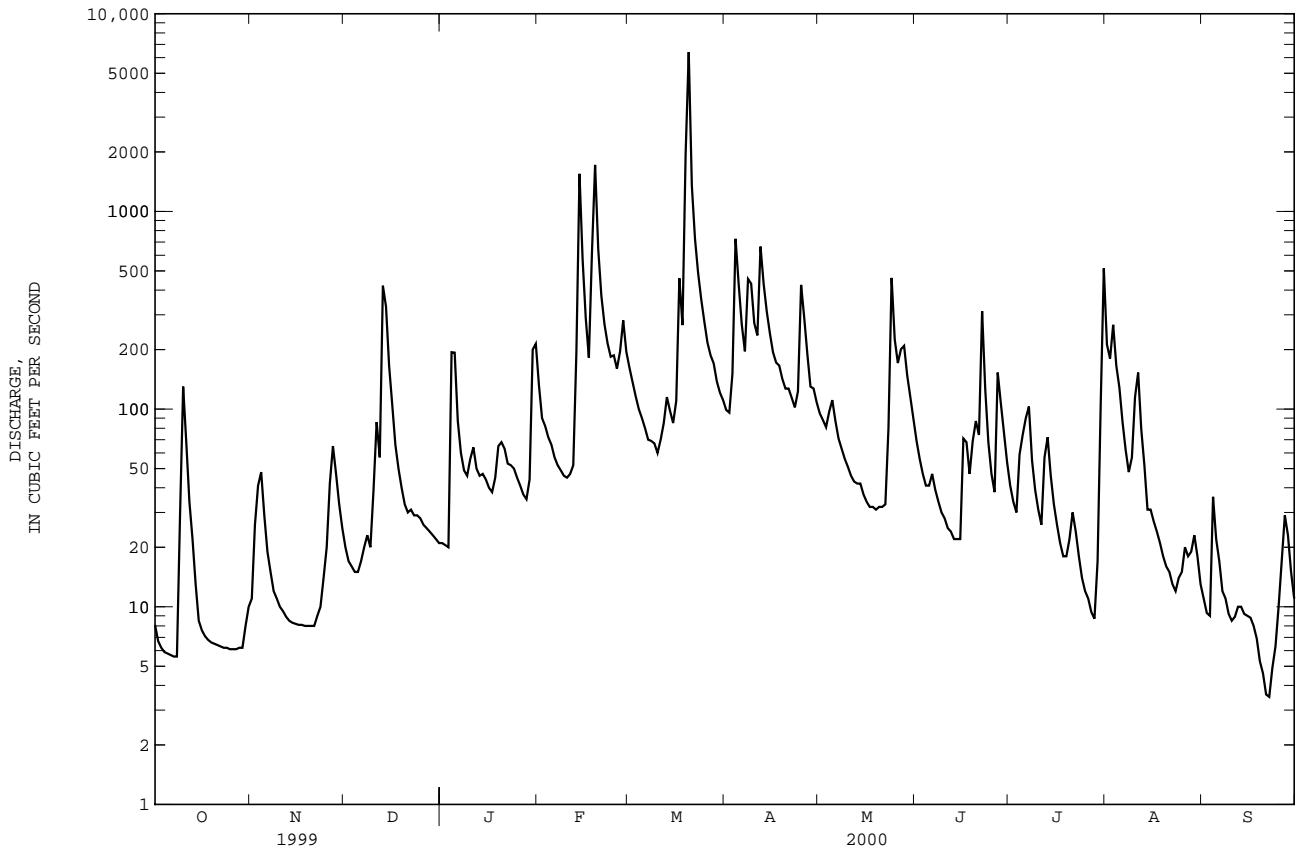
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

MEAN	72.8	200	402	479	561	583	392	277	196	127	87.4	106
MAX	636	1047	2540	1779	1490	1787	856	1464	800	751	502	1114
(WY)	1976	1952	1979	1950	1956	1975	1972	1983	1950	1967	1967	1979
MIN	1.38	8.92	18.6	26.5	61.1	91.0	70.1	39.8	14.6	10.0	4.25	2.09
(WY)	1954	1954	1954	1981	1941	1941	1986	1941	1988	1944	1991	1953

03307000 RUSSELL CREEK NEAR COLUMBIA, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL TOTAL	75266.6		44715.7		289	
ANNUAL MEAN	206		122		651	
HIGHEST ANNUAL MEAN					118	
LOWEST ANNUAL MEAN					1941	
HIGHEST DAILY MEAN	6930	Jan 9	6400	Mar 20	25000	Dec 9 1978
LOWEST DAILY MEAN	2.9	Sep 11	3.5	Sep 22	.40	Sep 25 1952
ANNUAL SEVEN-DAY MINIMUM	3.5	Sep 8	5.0	Sep 18	.47	Oct 19 1953
INSTANTANEOUS PEAK FLOW			8760	Mar 20	40600	Sep 1 1982
INSTANTANEOUS PEAK STAGE			17.20	Mar 20	26.12	Sep 1 1982
INSTANTANEOUS LOW FLOW					5.7	Sep 2 1993
ANNUAL RUNOFF (CFSM)	1.19		.71		1.67	
ANNUAL RUNOFF (INCHES)	16.18		9.62		22.69	
10 PERCENT EXCEEDS	587		238		626	
50 PERCENT EXCEEDS	50		45		100	
90 PERCENT EXCEEDS	6.2		8.1		15	

e Estimated



GREEN RIVER BASIN

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.

EXTREMES FOR CURRENT YEAR.--Maximum water-temperature , 30.0°C , July 14, minimum water-temperature, 0.0°C , Jan. 27,28.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	5.9	5.7	5.8
2	---	---	---	---	---	---	---	---	---	6.3	5.9	6.1
3	---	---	---	---	---	---	---	---	---	6.7	6.2	6.5
4	---	---	---	---	---	---	---	---	---	6.9	6.5	6.8
5	---	---	---	---	---	---	---	---	---	6.5	5.8	6.2
6	---	---	---	---	---	---	---	---	---	5.8	5.4	5.6
7	---	---	---	---	---	---	---	---	---	5.4	5.1	5.2
8	---	---	---	---	---	---	---	---	---	5.1	4.7	4.9
9	---	---	---	---	---	---	---	---	---	4.9	4.7	4.7
10	---	---	---	---	---	---	---	---	---	5.2	4.9	5.0
11	---	---	---	---	---	---	---	---	---	5.4	5.2	5.3
12	---	---	---	---	---	---	---	---	---	5.4	5.0	5.1
13	---	---	---	---	---	---	---	---	---	5.3	5.1	5.2
14	---	---	---	---	---	---	---	---	---	5.1	4.4	4.7
15	---	---	---	---	---	---	---	---	---	4.4	4.0	4.1
16	---	---	---	---	---	---	---	---	---	4.5	4.1	4.3
17	---	---	---	---	---	---	---	---	---	4.5	4.2	4.4
18	---	---	---	---	---	---	---	---	---	4.2	3.8	4.0
19	---	---	---	---	---	---	---	---	---	3.8	3.6	3.7
20	---	---	---	---	---	---	---	---	---	3.6	3.2	3.4
21	---	---	---	---	---	---	---	---	---	3.2	2.3	2.7
22	---	---	---	---	---	---	8.0	7.3	7.5	2.3	1.9	2.0
23	---	---	---	---	---	---	7.3	6.7	6.9	1.9	1.8	1.8
24	---	---	---	---	---	---	6.7	6.3	6.5	1.8	1.6	1.7
25	---	---	---	---	---	---	6.3	5.6	5.8	1.6	.9	1.2
26	---	---	---	---	---	---	5.6	5.3	5.4	.9	.5	.7
27	---	---	---	---	---	---	5.5	5.4	5.4	.5	.0	.1
28	---	---	---	---	---	---	5.4	5.2	5.2	.2	.0	.1
29	---	---	---	---	---	---	5.4	5.1	5.2	.7	.2	.5
30	---	---	---	---	---	---	5.5	5.3	5.4	.9	.1	.6
31	---	---	---	---	---	---	5.8	5.5	5.6	.8	.4	.6
MONTH	---	---	---	---	---	---	8.0	5.1	5.9	6.9	.0	3.6

GREEN RIVER BASIN

1

03308500 GREEN RIVER AT MUNFORDSVILLE, 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 Mundfordville, and at mile 225.9.

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

PERIOD OF RECORD.--February 1915 to December 1922, October to September 1931, December 1936 to February 1937 (in WPS 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 except for those estimated, which are fair. 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 ft³/s.

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	190	171	470	299	743	4640	968	1450	e1300	480	1360	266
2	182	185	453	297	718	3260	756	1050	e1050	420	1050	259
3	168	226	444	309	796	2510	711	972	e800	395	1350	254
4	163	483	440	1260	748	1410	2260	946	e510	509	1690	250
5	163	502	440	2550	724	1020	3890	930	e460	575	1040	244
6	161	493	440	1160	688	921	2410	1000	435	661	1320	240
7	160	476	433	769	659	859	1650	1480	418	556	1290	239
8	159	457	428	987	638	813	1610	920	390	499	1210	242
9	272	447	429	1070	627	788	2630	805	347	455	1180	242
10	465	442	442	1070	538	662	2330	763	320	403	4120	242
11	661	435	454	1000	464	658	1940	627	304	369	5760	253
12	444	430	600	968	458	800	3810	521	290	372	2440	322
13	331	429	798	907	468	1070	5220	504	281	374	1780	388
14	257	428	2460	896	2290	992	4620	471	274	377	1470	355
15	218	424	2040	876	5060	898	4230	431	275	387	1290	296
16	199	423	1090	568	3040	858	3840	395	274	365	817	267
17	189	422	794	440	2990	1530	3210	374	297	335	535	249
18	180	422	952	435	4560	2500	2160	366	594	316	472	239
19	173	424	948	449	10100	2510	1980	357	2280	322	397	233
20	169	434	918	537	7130	14400	1820	355	1820	347	354	230
21	167	438	886	516	3460	17900	1740	359	909	361	330	226
22	168	434	862	427	2280	8890	1800	360	685	338	313	221
23	166	434	848	375	2140	7220	1600	364	636	317	300	219
24	163	388	825	362	3690	7580	1530	2990	703	312	303	222
25	163	420	571	345	4240	7070	2610	4690	541	302	302	237
26	163	461	494	314	4930	6640	3660	3870	458	295	302	280
27	165	529	486	274	5380	6370	3260	3290	420	288	301	314
28	166	634	482	285	5630	5800	2890	2320	786	283	299	299
29	169	566	477	314	5630	4180	2430	1930	837	342	294	263
30	170	509	395	317	---	2710	1670	1720	587	715	286	258
31	172	---	309	533	---	1680	---	e1520	---	1660	275	---
TOTAL	6736	12966	22108	20909	80819	119139	75235	38130	19281	13730	34230	7849
MEAN	217	432	713	674	2787	3843	2508	1230	643	443	1104	262
MAX	661	634	2460	2550	10100	17900	5220	4690	2280	1660	5760	388
MIN	159	171	309	274	458	658	711	355	274	283	275	219

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2000, BY WATER YEAR (WY)

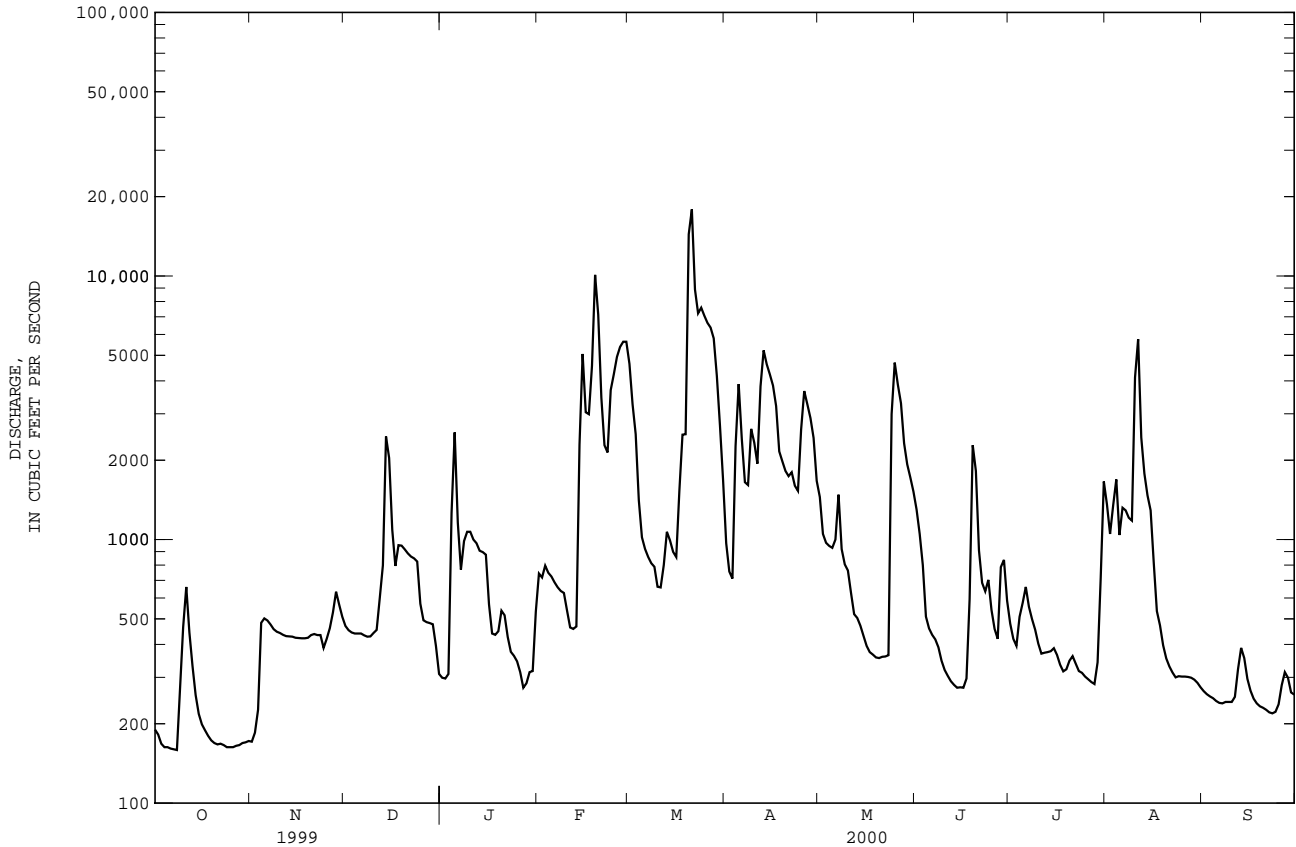
MEAN	1323	2374	4018	4652	5260	4943	3587	3333	2333	1094	884	1228
MAX	5337	5187	12800	12130	10710	12040	8632	13250	7209	3132	3642	6104
(WY)	1976	1978	1979	1974	1991	1975	1994	1983	1997	1973	1977	1979
MIN	217	210	545	255	1952	1066	552	487	214	280	202	152
(WY)	2000	1972	1981	1981	1992	1983	1986	1988	1988	1993	1993	1999

GREEN RIVER BASIN

03308500 GREEN RIVER AT MUNFORDSVILLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1970 - 2000	
ANNUAL TOTAL	658422		451132		2908	
ANNUAL MEAN	1804		1233		5285	
HIGHEST ANNUAL MEAN					1233	
LOWEST ANNUAL MEAN					1979	
HIGHEST DAILY MEAN	22500	Jan 10	17900	Mar 21	62800	May 8 1984
LOWEST DAILY MEAN	139	Sep 11	159	Oct 8	139	Sep 11 1999
ANNUAL SEVEN-DAY MINIMUM	142	Sep 9	165	Oct 22	142	Sep 9 1999
INSTANTANEOUS PEAK FLOW			18700	Mar 21	76800	Mar 1 1962
INSTANTANEOUS PEAK STAGE			25.01	Mar 21	57.72	Mar 1 1962
INSTANTANEOUS LOW FLOW					157	Jul 8 1988
10 PERCENT EXCEEDS	6140		3220		6990	
50 PERCENT EXCEEDS	466		496		1460	
90 PERCENT EXCEEDS	161		239		280	

e Estimated



GREEN RIVER BASIN

03308500 GREEN RIVER AT MUNFORDVILLE, KY--Continued

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.

INSTRUMENTATION.--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 25.5°C, Sept. 3; Minimum, 0°C, Jan. 27, 28.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	6.0	5.4	5.6
2	---	---	---	---	---	---	---	---	---	7.8	6.0	6.6
3	---	---	---	---	---	---	---	---	---	9.3	7.8	8.4
4	---	---	---	---	---	---	---	---	---	9.6	8.6	9.2
5	---	---	---	---	---	---	---	---	---	9.6	9.0	9.4
6	---	---	---	---	---	---	---	---	---	9.0	7.7	8.2
7	---	---	---	---	---	---	---	---	---	7.7	7.1	7.3
8	---	---	---	---	---	---	---	---	---	7.1	5.6	6.1
9	---	---	---	---	---	---	---	---	---	5.7	5.2	5.5
10	---	---	---	---	---	---	---	---	---	6.0	5.2	5.5
11	---	---	---	---	---	---	---	---	---	6.6	6.0	6.4
12	---	---	---	---	---	---	---	---	---	6.5	6.1	6.3
13	---	---	---	---	---	---	---	---	---	6.8	6.4	6.7
14	---	---	---	---	---	---	---	---	---	6.6	5.8	6.2
15	---	---	---	---	---	---	---	---	---	5.8	5.4	5.6
16	---	---	---	---	---	---	---	---	8.2	6.7	5.7	6.1
17	---	---	---	---	---	---	7.8	7.5	7.8	6.7	5.9	6.1
18	---	---	---	---	---	---	7.8	7.3	7.5	5.9	5.6	5.7
19	---	---	---	---	---	---	7.5	7.2	7.4	5.6	5.4	5.4
20	---	---	---	---	---	---	7.8	7.5	7.8	5.5	4.8	5.2
21	---	---	---	---	---	---	7.7	6.8	7.3	4.8	4.1	4.2
22	---	---	---	---	---	---	6.8	6.0	6.4	4.2	3.7	3.8
23	---	---	---	---	---	---	6.0	5.4	5.7	4.1	3.5	3.6
24	---	---	---	---	---	---	5.4	4.8	5.2	3.7	2.6	3.0
25	---	---	---	---	---	---	4.8	3.9	4.4	2.6	1.2	1.7
26	---	---	---	---	---	---	4.4	3.9	4.2	1.2	.3	.7
27	---	---	---	---	---	---	4.4	4.2	4.2	.7	.0	.0
28	---	---	---	---	---	---	4.2	3.9	4.1	.1	.0	.0
29	---	---	---	---	---	---	4.6	4.1	4.4	.6	.1	.3
30	---	---	---	---	---	---	5.0	4.4	4.7	.9	.6	.6
31	---	---	---	---	---	---	5.9	4.9	5.3	3.0	.9	2.1
MONTH	---	---	---	---	---	---	7.8	3.9	5.9	9.6	.0	4.9

GREEN RIVER BASIN

03310300 NOLIN RIVER AT WHITE MILLS, KY

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

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

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

GAGE.--Water-stage recorder. Datum of gage is 583.08 ft above 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 19	1430	*5420	*17.94	May 24	0700	2640	10.46
Mar 20	1800	3010	11.52				

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	44.0	34	47	61	e94	622	e450	281	189	121	250	83
2	41	39	44	59	e92	565	e400	268	172	110	172	77
3	39	45	43	748	e90	505	e610	260	156	102	136	77
4	38	58	44	2130	e95	467	e1000	275	144	119	1190	76
5	36	55	46	1240	111	428	e1300	250	135	177	580	77
6	35	49	49	667	e105	389	e1500	225	129	727	343	72
7	36	46	53	512	e99	358	e1200	210	120	484	256	67
8	36	42	53	411	e95	332	e1300	198	114	273	203	63
9	63	41	49	350	e91	315	e1700	189	105	201	229	61
10	225	41	61	313	e88	292	e2000	179	101	163	1070	65
11	133	39	113	275	e86	271	e1300	167	98	142	1290	68
12	81	38	85	238	e85	510	e1000	160	92	135	557	87
13	63	38	251	220	e84	581	e1300	161	86	145	393	97
14	52	38	658	199	386	560	e950	175	83	130	306	79
15	45	39	334	178	438	542	893	155	88	112	247	68
16	42	38	204	168	336	611	833	142	95	102	209	63
17	41	39	150	159	288	1040	807	136	98	95	183	58
18	39	39	120	161	1060	863	820	130	1470	86	165	57
19	39	40	105	164	4850	809	761	126	925	90	153	53
20	39	41	98	161	2710	2260	e700	122	478	92	138	54
21	38	42	97	158	1500	2160	e840	120	335	92	126	50
22	37	42	90	148	1150	1570	e1000	113	265	85	115	52
23	36	44	82	142	968	1300	e900	125	215	78	114	55
24	36	43	78	138	841	1140	e670	2050	180	72	183	54
25	35	44	74	134	837	e980	e530	819	163	66	155	96
26	34	47	72	125	729	e850	485	477	165	62	140	141
27	34	55	70	117	758	e740	409	358	170	63	146	105
28	35	64	69	109	758	e650	371	311	171	59	120	85
29	35	57	67	e105	670	e590	339	273	153	89	105	73
30	35	52	65	e100	---	e550	307	238	134	222	96	65
31	35	---	63	e97	---	e490	---	213	---	443	90	---
TOTAL	1557.0	1329	3434	9787	19494	23340	26675	8906	6829	4937	9460	2178
MEAN	50.2	44.3	111	316	672	753	889	287	228	159	305	72.6
MAX	225	64	658	2130	4850	2260	2000	2050	1470	727	1290	141
MIN	34	34	43	59	84	271	307	113	83	59	90	50
CFSM	.21	.19	.47	1.33	2.84	3.18	3.75	1.21	.96	.67	1.29	.31
IN.	.24	.21	.54	1.54	3.06	3.66	4.19	1.40	1.07	.77	1.48	.34

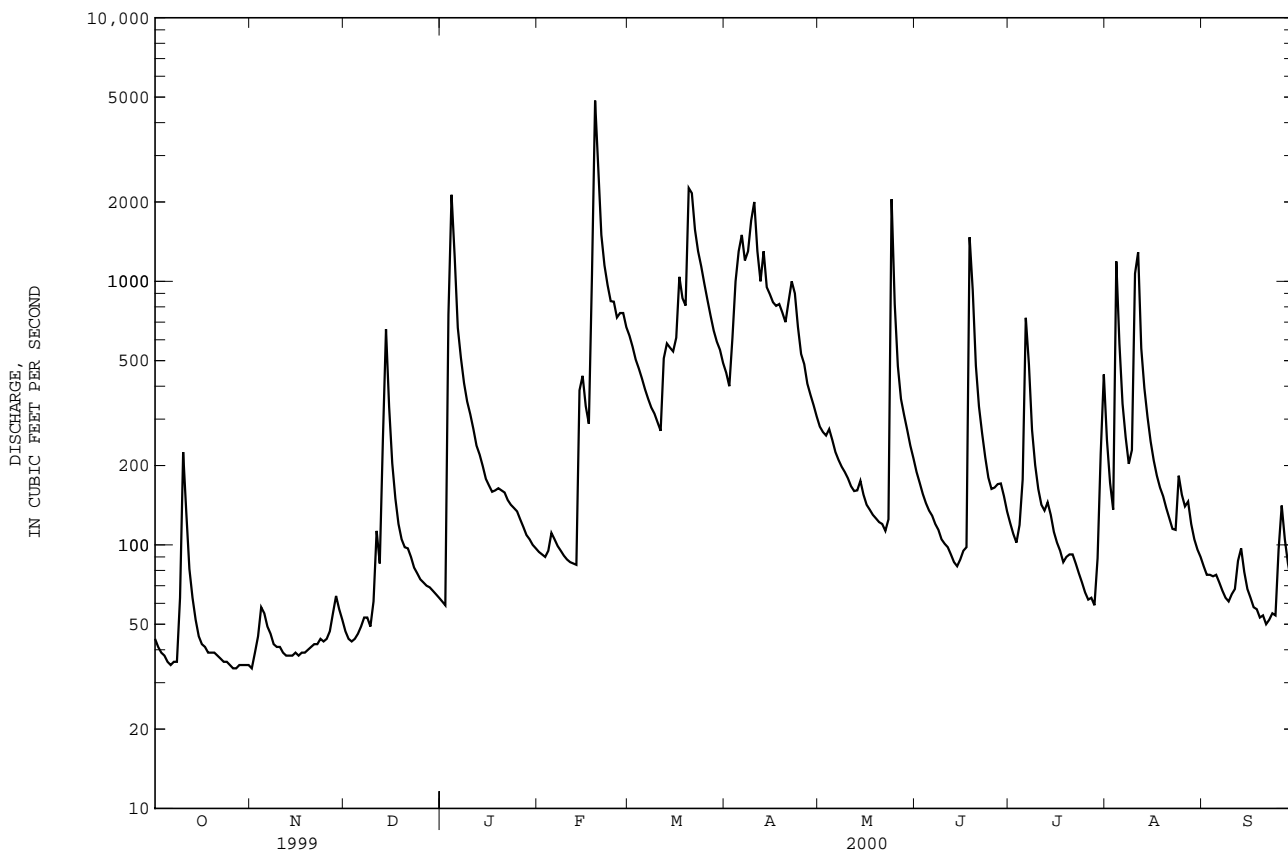
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2000, BY WATER YEAR (WY)

	1960	1970	1980	1990	2000	1960	1970	1980	1990	2000		
MEAN	150	278	610	677	874	991	758	579	347	242	173	193
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1960 - 2000	
ANNUAL TOTAL	77913.0		117926.0			
ANNUAL MEAN	213		322		488	
HIGHEST ANNUAL MEAN					971 1979	
LOWEST ANNUAL MEAN					217 1999	
HIGHEST DAILY MEAN	2550	Jan 8	4850	Feb 19	20000	Mar 2 1997
LOWEST DAILY MEAN	31	Sep 19	34	Oct 26	27	Oct 23 1998
ANNUAL SEVEN-DAY MINIMUM	32	Sep 13	35	Oct 26	31	Oct 17 1998
INSTANTANEOUS PEAK FLOW			5420	Feb 19	24500	Mar 2 1997
INSTANTANEOUS PEAK STAGE			17.94	Feb 19	36.46	Mar 2 1997
INSTANTANEOUS LOW FLOW					31	Oct 1 1959
ANNUAL RUNOFF (CFSM)	.90		1.36		2.06	
ANNUAL RUNOFF (INCHES)	12.23		18.51		27.96	
10 PERCENT EXCEEDS	540		854		1060	
50 PERCENT EXCEEDS	100		134		238	
90 PERCENT EXCEEDS	36		42		60	

e Estimated



GREEN RIVER BASIN

03311000 NOLIN RIVER AT KYROCK, KY

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

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

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

GAGE.--Water-stage recorder and outflow gate dials. Datum of gage 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

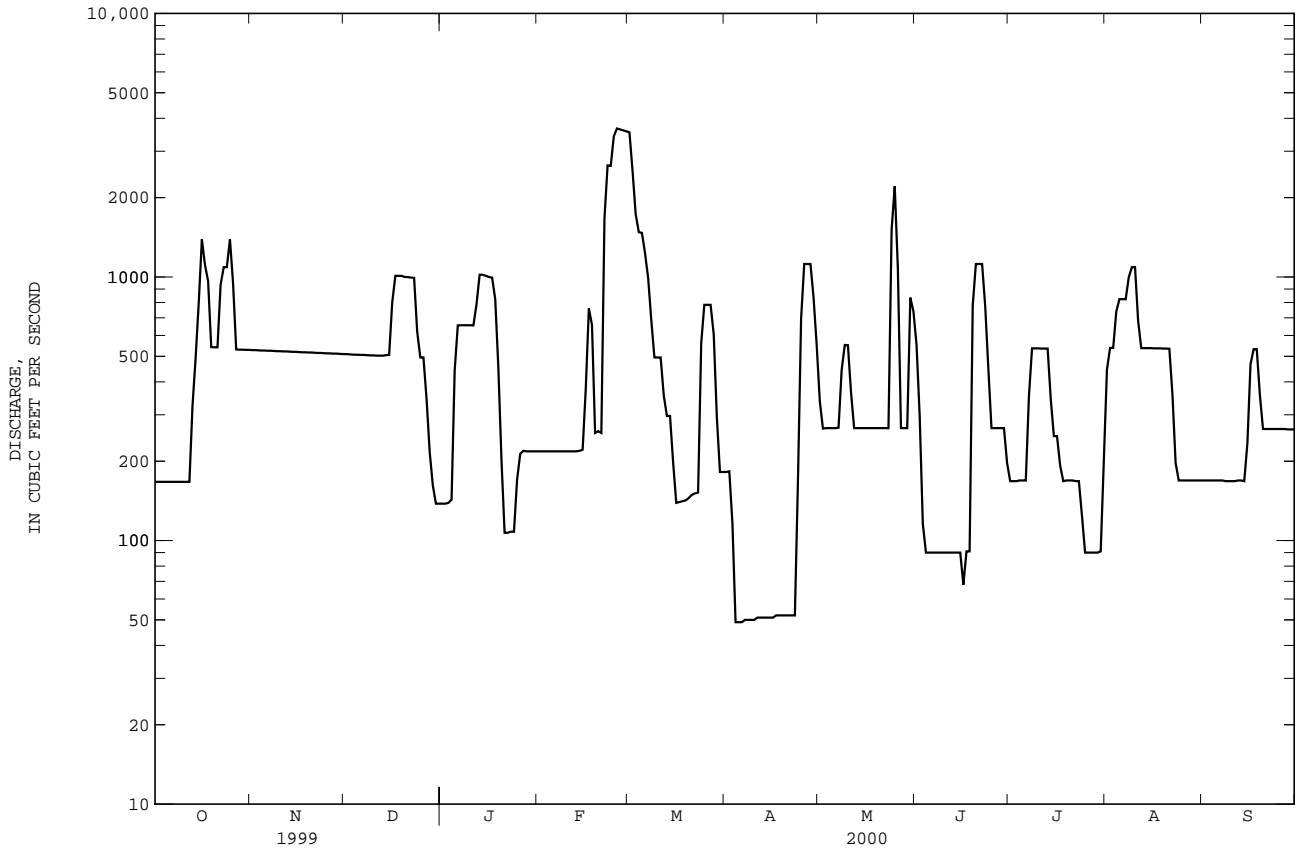
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	528	510	138	218	3540	182	337	551	168	445	169
2	167	528	509	138	218	2520	183	266	296	168	538	169
3	167	527	508	139	218	1730	116	267	116	168	538	169
4	167	526	507	143	218	1480	49	267	90	169	740	169
5	167	526	507	442	218	1470	49	267	90	169	824	169
6	167	525	506	655	218	1230	49	267	90	169	824	169
7	167	525	506	656	218	989	50	268	90	352	823	169
8	167	524	505	656	218	686	50	444	90	536	998	168
9	167	523	504	656	218	495	50	552	90	536	1090	168
10	167	523	504	656	218	495	50	551	90	536	1090	168
11	167	522	503	655	218	495	51	365	90	535	680	168
12	167	522	503	788	218	355	51	267	90	535	537	169
13	325	521	503	1020	218	297	51	267	90	535	537	169
14	494	520	505	1020	219	297	51	267	90	344	537	168
15	802	520	506	1010	221	198	51	267	90	249	537	234
16	1390	519	803	1000	375	139	51	267	68	249	536	467
17	1110	518	1010	994	759	140	52	267	91	193	536	532
18	964	518	1010	823	658	141	52	267	91	168	536	532
19	542	517	1010	452	256	142	52	267	779	169	535	357
20	541	517	1000	202	260	145	52	267	1120	169	535	265
21	541	516	999	107	256	149	52	267	1120	169	534	265
22	934	515	995	107	1670	151	52	267	1120	168	356	265
23	1090	515	992	108	2650	152	52	267	771	168	197	265
24	1090	514	619	108	2640	561	169	1510	448	124	169	265
25	1390	513	495	170	3420	784	694	2210	267	90	169	265
26	944	513	495	213	3660	784	1120	1080	267	90	169	265
27	531	512	344	219	3630	784	1120	267	267	90	169	265
28	530	512	217	218	3600	607	1120	267	267	90	169	264
29	530	511	162	218	3570	294	833	267	267	90	169	264
30	529	510	138	218	---	182	550	835	197	91	169	264
31	529	---	138	218	---	182	---	740	---	202	169	---
TOTAL	16810	15580	18013	14147	30678	21614	7104	14231	9183	7489	15855	7395
MEAN	542	519	581	456	1058	697	237	459	306	242	511	246
MAX	1390	528	1010	1020	3660	3540	1120	2210	1120	536	1090	532
MIN	167	510	138	107	218	139	49	266	68	90	169	168

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
MEAN	911	1316	1222	1519	1617	1214	865	1053	845	505	292	501
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	1.22	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000	
ANNUAL TOTAL	187427		178099		985	
ANNUAL MEAN	513		487		1880	
HIGHEST ANNUAL MEAN					487	
LOWEST ANNUAL MEAN					10300	
HIGHEST DAILY MEAN	4230	Feb 5	3660	Feb 26	.00	May 28 1983
LOWEST DAILY MEAN	48	Apr 23	49	Apr 4	.00	May 2 1964
ANNUAL SEVEN-DAY MINIMUM	48	Apr 23	50	Apr 4	.00	May 2 1964
INSTANTANEOUS PEAK FLOW					22700	
INSTANTANEOUS PEAK STAGE			29.05 Feb 25		59.27	
10 PERCENT EXCEEDS	1090		1000		2490	Mar 2 1962
50 PERCENT EXCEEDS	167		267		476	
90 PERCENT EXCEEDS	51		90		52	



GREEN RIVER BASIN

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 mi², of which about 600 mi² does not contribute directly to surface runoff.

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--December 15, 1999 to September 30, 2000.

GAGE.--Water-temperature recorder.

REMARKS.--Records fair.

COOPERATION.--Green County.

EXTREMES FOR PERIOD OF DAILY RECORD.--Maximum water-temperature, 18.6°C, Aug. 7; minimum water-temperature, 5.1°C, Jan. 27, 28.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	6.6	6.5	6.6
2	---	---	---	---	---	---	---	---	---	6.6	6.6	6.6
3	---	---	---	---	---	---	---	---	---	6.7	6.6	6.7
4	---	---	---	---	---	---	---	---	---	6.9	6.6	6.8
5	---	---	---	---	---	---	---	---	---	6.7	6.7	6.7
6	---	---	---	---	---	---	---	---	---	6.7	6.4	6.5
7	---	---	---	---	---	---	---	---	---	6.4	6.3	6.4
8	---	---	---	---	---	---	---	---	---	6.4	6.3	6.3
9	---	---	---	---	---	---	---	---	---	6.4	6.3	6.4
10	---	---	---	---	---	---	---	---	---	6.4	6.3	6.4
11	---	---	---	---	---	---	---	---	---	6.6	6.4	6.5
12	---	---	---	---	---	---	---	---	---	6.6	6.5	6.6
13	---	---	---	---	---	---	---	---	---	6.7	6.6	6.6
14	---	---	---	---	---	---	---	---	---	6.6	6.5	6.5
15	---	---	---	---	---	---	9.1	9.0	9.0	6.6	6.5	6.6
16	---	---	---	---	---	---	9.6	8.9	9.3	6.7	6.6	6.6
17	---	---	---	---	---	---	9.5	9.3	9.4	6.7	6.6	6.6
18	---	---	---	---	---	---	9.3	9.2	9.3	6.6	6.4	6.5
19	---	---	---	---	---	---	9.2	9.1	9.1	6.5	6.4	6.4
20	---	---	---	---	---	---	9.1	9.0	9.0	6.4	6.3	6.4
21	---	---	---	---	---	---	9.0	8.5	8.8	6.3	6.0	6.1
22	---	---	---	---	---	---	8.5	8.2	8.4	6.0	5.8	5.9
23	---	---	---	---	---	---	8.2	7.9	8.0	5.9	5.7	5.8
24	---	---	---	---	---	---	7.9	7.6	7.8	5.9	5.7	5.8
25	---	---	---	---	---	---	7.6	7.3	7.4	5.7	5.4	5.6
26	---	---	---	---	---	---	7.3	7.1	7.2	5.4	5.3	5.3
27	---	---	---	---	---	---	7.1	6.9	7.0	5.3	5.1	5.1
28	---	---	---	---	---	---	6.9	6.7	6.8	5.2	5.1	5.2
29	---	---	---	---	---	---	6.8	6.7	6.7	5.3	5.2	5.2
30	---	---	---	---	---	---	6.7	6.6	6.6	5.3	5.3	5.3
31	---	---	---	---	---	---	6.7	6.6	6.6	5.3	5.3	5.3
MONTH	---	---	---	---	---	---	9.6	6.6	8.0	6.9	5.1	6.2

GREEN RIVER BASIN

03312765 BEAVER CREEK AT HWY 31 E NEAR GLASGOW, KY

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

DRAINAGE AREA.--49.6 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 651.43 ft above NGVD of 1929.

REMARKS.--Records poor.

COOPERATION.--City of Glasgow.

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	e2.4	8.4	3.1	e4.5	13	38	23	32	32	11	31	7.5
2	e2.0	14	3.0	e4.5	12	34	25	28	30	10	29	7.4
3	e1.8	20	3.3	e20	11	30	45	25	28	9.6	17	7.0
4	e1.7	18	3.6	71	11	28	176	24	24	14	14	7.4
5	e1.6	16	3.8	22	10	25	103	22	23	40	11	6.6
6	e1.6	e13	4.1	11	8.9	22	73	20	23	18	9.8	6.1
7	e1.5	e11	4.2	7.1	8.3	19	55	18	20	14	8.6	5.8
8	19	e9.5	3.9	5.5	8.1	18	56	17	18	12	8.5	6.3
9	32	e8.5	3.7	5.1	7.6	17	47	15	17	11	15	6.3
10	27	e7.5	4.4	4.9	8.2	17	39	14	16	11	77	5.8
11	12	e6.8	5.0	4.6	9.5	16	38	13	15	10	37	7.5
12	7.0	e6.3	5.5	4.2	10	19	92	12	14	10	16	16
13	5.1	e5.8	39	4.3	11	17	72	12	14	9.9	11	14
14	4.4	e5.3	43	4.1	95	15	58	11	15	8.9	7.7	11
15	e3.9	e4.9	26	4.3	42	14	49	9.9	17	8.3	6.2	8.5
16	e3.7	e4.6	15	5.0	25	16	42	9.3	18	7.9	4.7	7.5
17	e3.5	e4.3	11	5.3	18	27	39	9.0	15	7.2	4.0	6.6
18	e3.3	e4.1	8.4	7.0	99	23	36	8.8	42	6.9	4.4	6.1
19	e3.1	e3.9	7.1	9.3	382	95	31	8.4	32	10	6.1	6.1
20	e3.0	e4.3	e6.6	9.1	143	785	29	8.4	23	12	6.3	5.6
21	e2.8	4.5	e6.2	9.9	87	342	48	8.4	19	8.4	7.4	5.5
22	e2.7	4.1	e5.9	9.6	66	180	35	7.8	18	7.0	7.6	6.1
23	e2.6	3.7	5.6	9.5	51	108	29	184	14	6.2	8.1	6.9
24	e2.5	3.8	5.5	9.1	43	81	37	709	12	5.7	9.6	8.2
25	e2.3	4.1	e5.3	8.2	38	64	178	237	11	5.3	9.0	11
26	e2.2	12	e5.1	7.6	33	51	104	131	11	5.2	8.5	15
27	e2.2	10	e5.0	6.9	43	49	72	136	21	4.8	11	13
28	e2.1	5.8	e4.9	6.3	50	44	57	101	27	4.4	12	11
29	e2.1	4.1	e4.8	6.9	41	35	45	67	17	18	9.0	10
30	e2.0	3.7	e4.7	13	---	29	37	49	14	117	7.9	9.8
31	e1.9	---	e4.6	15	---	26	---	39	---	58	8.0	---
TOTAL	165.0	232.0	261.3	314.8	1384.6	2284	1770	1986.0	600	481.7	422.4	251.6
MEAN	5.32	7.73	8.43	10.2	47.7	73.7	59.0	64.1	20.0	15.5	13.6	8.39
MAX	32	20	43	71	382	785	178	709	42	117	77	16
MIN	1.5	3.7	3.0	4.1	7.6	14	23	7.8	11	4.4	4.0	5.5
CFSM	.11	.16	.17	.20	.96	1.49	1.19	1.29	.40	.31	.27	.17
IN.	.12	.17	.20	.24	1.04	1.71	1.33	1.49	.45	.36	.32	.19

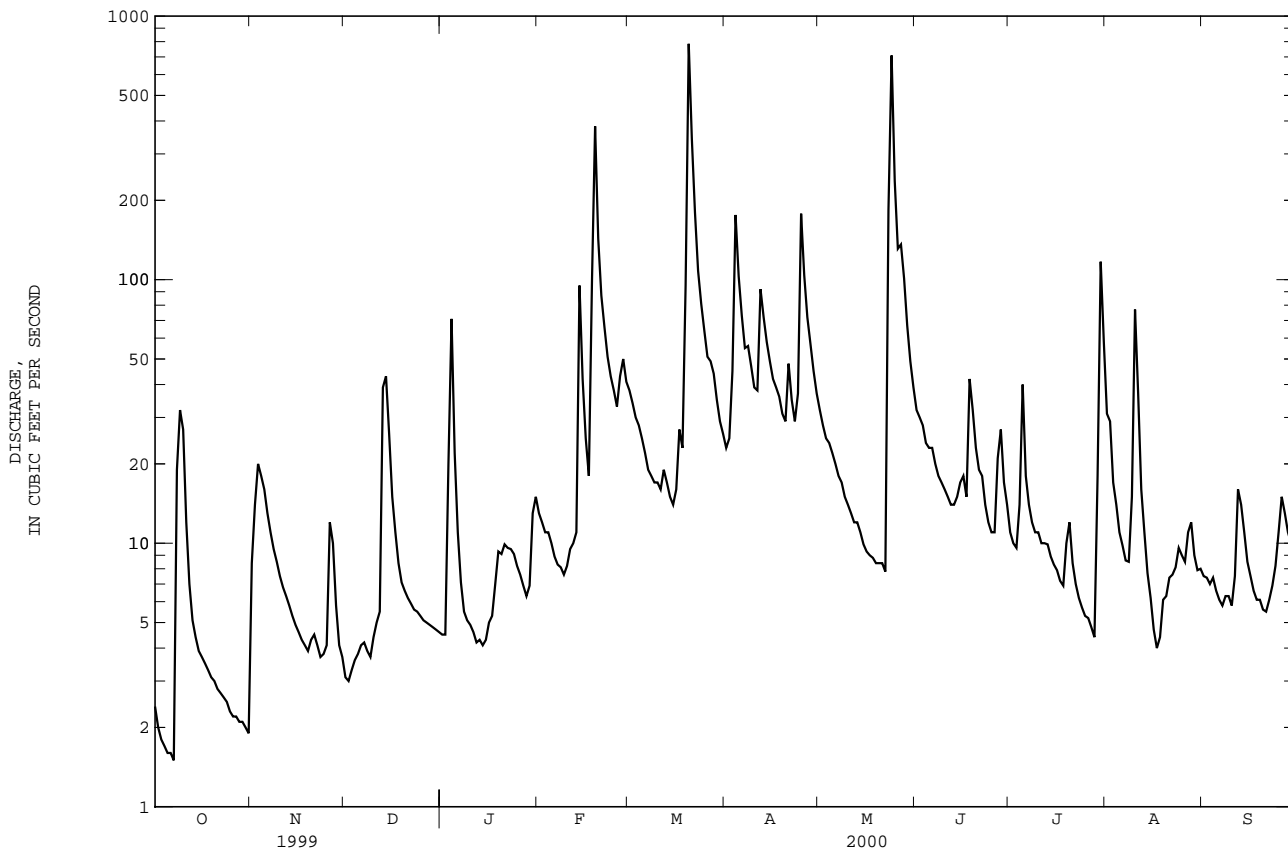
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2000, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	15.0	42.6	90.4	146	167	239	123	92.4	102
MAX	39.6	169	246	307	489	477	307	381	250
(WY)	1997	1997	1997	1999	1994	1997	1994	1995	1997
MIN	5.32	7.73	8.43	10.2	47.7	73.7	44.8	38.8	19.9
(WY)	2000	2000	2000	2000	2000	2000	1999	1994	1993

03312765 BEAVER CREEK AT HWY 31 E NEAR GLASGOW, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1992 - 2000	
ANNUAL TOTAL	28277.0		10153.4		89.8	
ANNUAL MEAN	77.5		27.7		142	
HIGHEST ANNUAL MEAN					27.7	
LOWEST ANNUAL MEAN					1994	
HIGHEST DAILY MEAN	1800	Jan 9	785	Mar 20	2930	Mar 9 1994
LOWEST DAILY MEAN	1.5	Oct 7	1.5	Oct 7	1.5	Oct 7 1999
ANNUAL SEVEN-DAY MINIMUM	1.8	Oct 1	1.8	Oct 1	1.8	Oct 1 1999
INSTANTANEOUS PEAK FLOW			1170		6620	Jun 18 1992
INSTANTANEOUS PEAK STAGE			9.26		15.10	Jun 18 1992
ANNUAL RUNOFF (CFSM)	1.56		.56		1.81	
ANNUAL RUNOFF (INCHES)	21.21		7.62		24.59	
10 PERCENT EXCEEDS	250		52		198	
50 PERCENT EXCEEDS	14		11		30	
90 PERCENT EXCEEDS	3.3		4.1		5.9	

e Estimated



GREEN RIVER BASIN

03313700 WEST FORK DRAKES CREEK NEAR FRANKLIN, KY

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

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

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

GAGE.--Water-stage recorder and broad-crested weir. Datum of gage is 581.54 ft above 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 ft³/s does not include approximately 3 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 14	0530	*3,510	9.87	No other peak greater than base discharge.			

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	e2.2	e6.0	e6.0	3.0	22	106	66	151	89	12	31	3.2
2	e2.1	e8.0	e6.2	3.3	21	93	71	133	75	11	22	e2.4
3	e2.0	e12	e6.4	4.4	21	83	107	115	66	9.6	16	e2.0
4	e2.0	e9.0	e7.0	95	20	77	363	109	59	9.0	40	e1.8
5	e1.9	e8.2	e7.4	88	20	69	269	105	53	8.3	66	e1.6
6	e1.8	e7.6	e8.0	54	18	61	199	93	50	8.1	82	e1.4
7	e1.7	e7.0	e7.4	38	16	56	160	82	45	7.5	46	e1.3
8	e1.8	e6.8	e7.8	31	14	52	180	73	40	5.3	30	e1.2
9	e8.0	e6.6	e9.0	28	15	48	174	66	34	5.0	23	e1.1
10	31	e6.4	10	26	15	45	142	62	30	4.3	17	e1.0
11	31	e6.1	11	23	14	44	145	58	27	3.3	11	e1.2
12	18	e6.0	17	21	22	43	382	51	24	2.9	8.8	e3.0
13	9.1	e6.0	123	21	37	40	276	51	23	3.8	7.1	e4.0
14	4.6	e6.1	161	20	1580	37	216	46	21	5.0	6.6	e2.6
15	e4.2	e7.0	86	19	382	34	177	40	21	4.6	5.3	e2.0
16	e4.0	e6.4	51	17	221	36	149	36	47	3.7	3.3	e1.8
17	e3.8	e5.5	34	16	160	39	143	35	44	e3.2	2.7	e1.6
18	e3.6	e5.3	25	21	362	39	132	32	32	e3.0	2.2	e1.4
19	e3.4	e5.2	20	30	767	142	113	31	29	4.1	2.4	e1.2
20	e3.3	e7.0	15	35	372	1200	102	31	25	4.5	2.3	e1.0
21	e3.2	e8.0	11	36	239	486	93	31	22	4.5	e2.2	e.96
22	e3.2	e7.0	9.0	35	184	295	84	30	20	3.2	e2.0	e1.0
23	e3.1	e6.6	7.4	32	150	221	77	36	18	e2.6	e1.9	e1.2
24	e3.0	e7.0	6.7	28	128	175	281	74	15	e2.2	e1.8	e1.8
25	e3.0	e8.0	5.9	27	115	145	1140	151	12	e2.0	e1.7	e3.0
26	e3.0	e7.4	5.6	24	101	124	553	165	13	e1.8	e1.7	e5.0
27	e2.9	e7.0	4.4	21	121	116	345	231	18	e1.7	e5.0	e4.0
28	e2.9	6.7	3.8	19	137	105	319	418	14	e1.6	14	e3.0
29	e2.8	e6.4	3.4	19	116	89	236	232	19	1.7	11	e2.0
30	e3.6	e6.2	3.4	21	---	80	182	150	15	13	8.0	e1.4
31	e5.0	---	3.1	22	---	72	---	113	---	50	4.8	---
TOTAL	175.2	208.5	681.9	877.7	5390	4252	6876	3031	1000	202.5	478.8	60.16
MEAN	5.65	6.95	22.0	28.3	186	137	229	97.8	33.3	6.53	15.4	2.01
MAX	31	12	161	95	1580	1200	1140	418	89	50	82	5.0
MIN	1.7	5.2	3.1	3.0	14	34	66	30	12	1.6	1.7	.96
CFSM	.06	.08	.24	.31	2.04	1.51	2.52	1.07	.37	.07	.17	.02
IN.	.07	.09	.28	.36	2.20	1.74	2.81	1.24	.41	.08	.20	.02

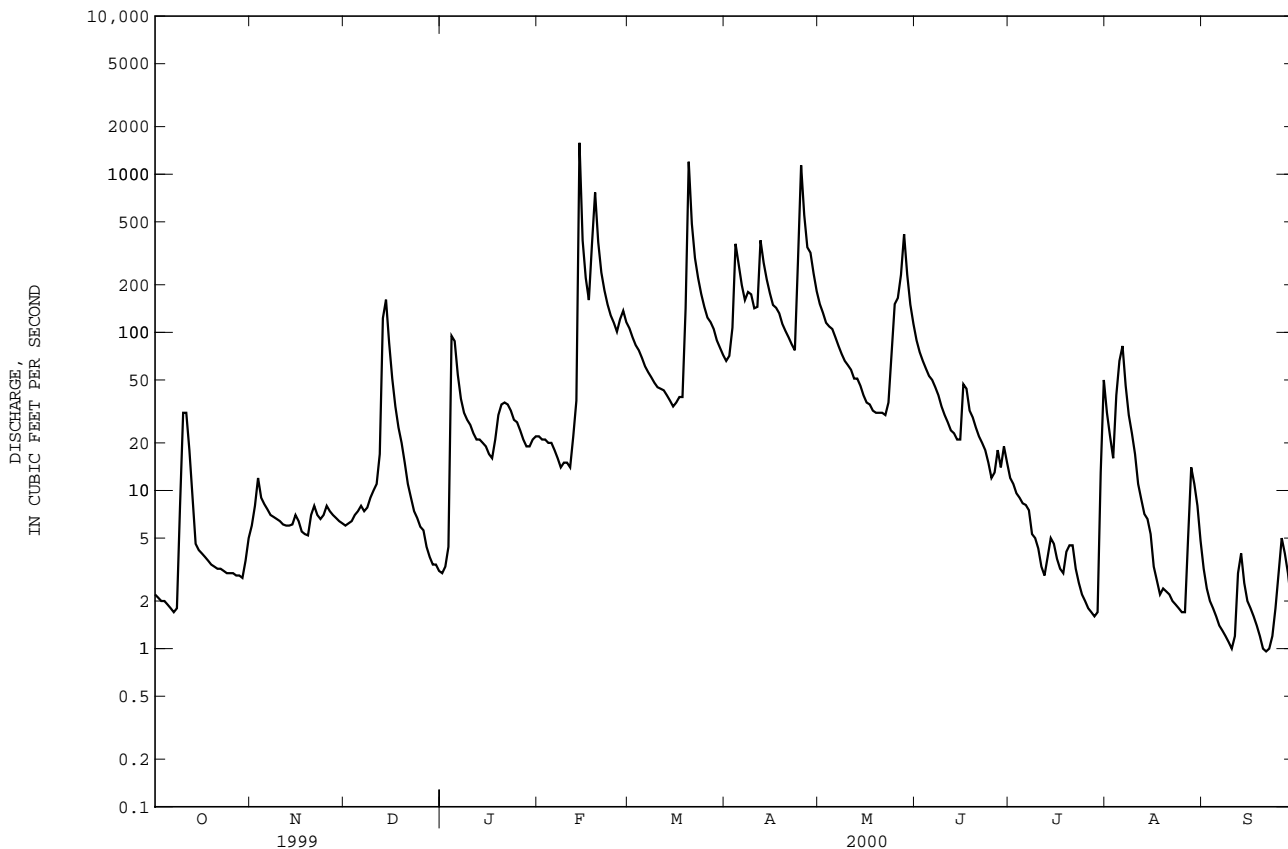
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2000, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)								
MEAN	42.8	129	286	300	359	386	254	215	160	65.6	33.4	58.4
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1968 - 2000	
ANNUAL TOTAL	57647.0		23233.76		190	
ANNUAL MEAN	158		63.5		351	
HIGHEST ANNUAL MEAN					63.5 1989	
LOWEST ANNUAL MEAN					2000	
HIGHEST DAILY MEAN	4180	Jan 23	1580	Feb 14	12800	Mar 12 1975
LOWEST DAILY MEAN	1.7	Oct 7	.96	Sep 21	.00	Sep 19 1985
ANNUAL SEVEN-DAY MINIMUM	1.9	Oct 2	1.2	Sep 17	.00	Aug 13 1988
INSTANTANEOUS PEAK FLOW			3510	Feb 14	27300	Mar 12 1975
INSTANTANEOUS PEAK STAGE			9.87	Feb 14	23.20	Mar 12 1975
ANNUAL RUNOFF (CFSM)	1.74		.70		2.09	
ANNUAL RUNOFF (INCHES)	23.57		9.50		28.40	
10 PERCENT EXCEEDS	404		154		427	
50 PERCENT EXCEEDS	35		18		70	
90 PERCENT EXCEEDS	3.0		2.0		8.1	

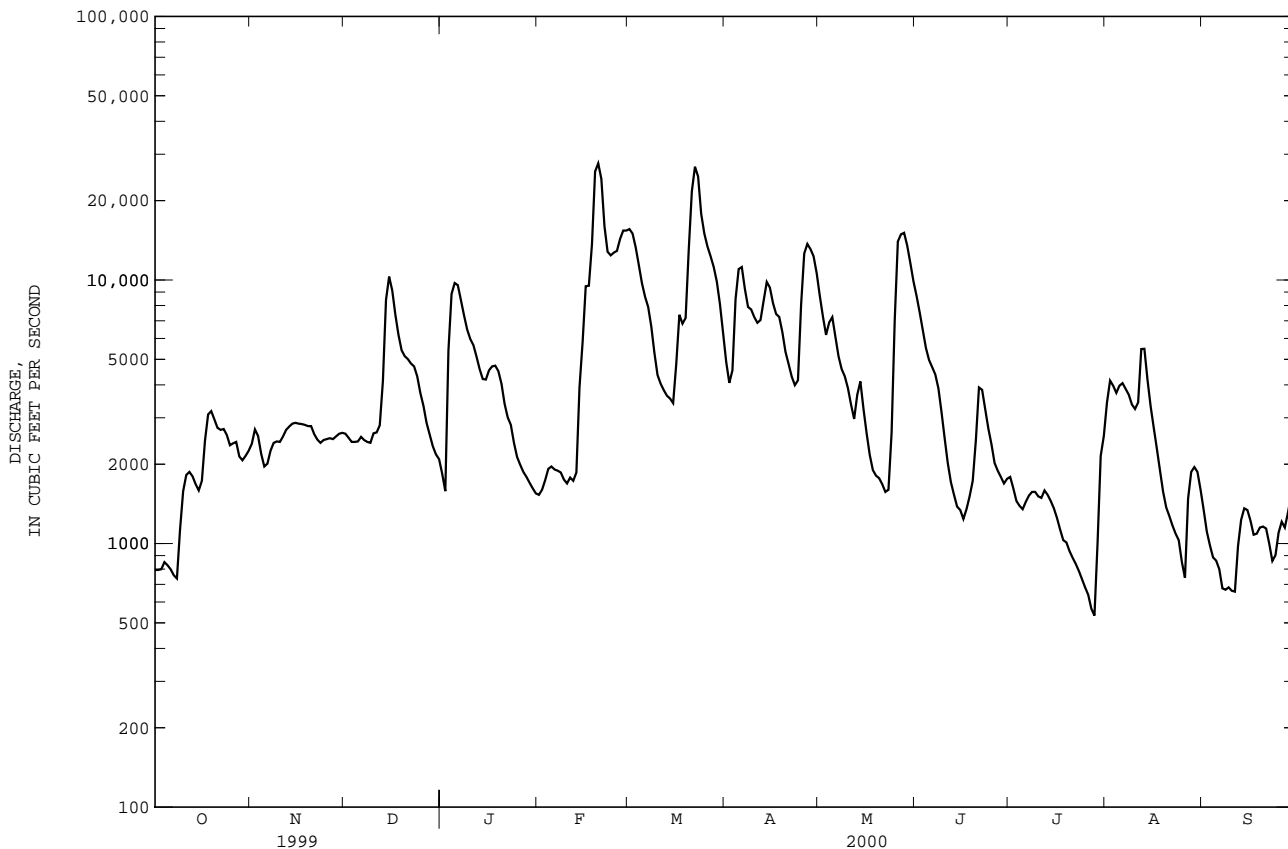
e Estimated



03316500 GREEN RIVER AT PARADISE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1970 - 2000	
ANNUAL TOTAL	2335763		1642091		9853	
ANNUAL MEAN	6399		4487		18460	
HIGHEST ANNUAL MEAN					4487	
LOWEST ANNUAL MEAN					1979	
HIGHEST DAILY MEAN	50600	Jan 26	27700	Feb 20	83800	Mar 7 1997
LOWEST DAILY MEAN	342	Sep 6	533	Jul 28	277	Sep 13 1995
ANNUAL SEVEN-DAY MINIMUM	358	Sep 5	682	Jul 22	320	Sep 8 1995
INSTANTANEOUS PEAK FLOW			29400	Feb 19	107000	Mar 5 1962
INSTANTANEOUS PEAK STAGE			18.25	Feb 20	40.46	Mar 5 1962
INSTANTANEOUS LOW FLOW					250	Oct 23 1940
10 PERCENT EXCEEDS	18000		10700		22800	
50 PERCENT EXCEEDS	2610		2640		5940	
90 PERCENT EXCEEDS	524		1060		1340	

e Estimated



GREEN RIVER BASIN

03320000 GREEN RIVER AT LOCK 2, AT CALHOUN, KY

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

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

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

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

GAGE.--Water-stage recorder. Datum of gage is 353.95 ft above 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 ft³/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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

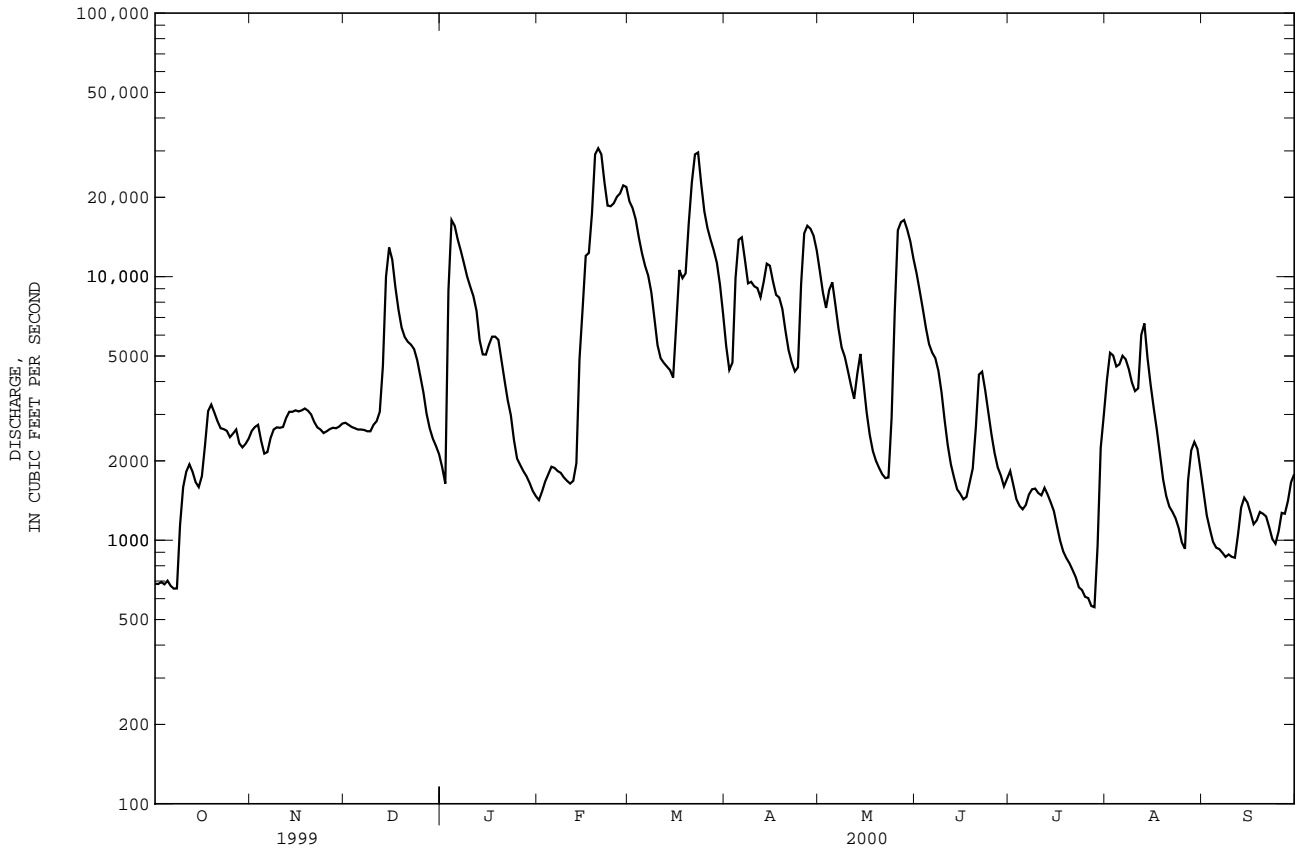
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	684	2600	2790	1890	1420	19300	5450	10500	10300	1830	4060	1510
2	682	2690	2740	1640	1530	18200	4430	8700	8840	1620	5140	1240
3	694	2740	2690	8850	1670	16500	4720	7610	7550	1430	5020	1100
4	680	2380	2660	16400	1780	14100	9910	8900	6390	1350	4560	986
5	702	2130	2630	15600	1900	12300	13800	9520	5550	1310	4650	937
6	671	2160	2630	13800	1880	11000	14100	7800	5150	1360	5010	925
7	655	2440	2620	12500	1830	10100	11600	6340	4910	1490	4860	896
8	656	2630	2590	11200	1800	8740	9430	5380	4390	1560	4460	864
9	1140	2680	2590	10000	1730	6950	9560	4970	3640	1570	3970	883
10	1590	2670	2740	9160	1680	5500	9190	4390	2850	1510	3680	865
11	1820	2690	2830	8430	1640	4900	9050	3860	2290	1480	3770	858
12	1940	2910	3070	7420	1680	4710	8350	3440	1940	1580	6010	1050
13	1820	3070	4580	5740	1960	4560	9530	4270	1730	1490	6640	1330
14	1660	3070	10000	5070	4870	4420	11200	5090	1560	1390	4920	1450
15	1590	3110	12900	5060	7560	4140	11000	3960	1500	1290	3890	1390
16	1750	3080	11600	5520	12000	6590	9590	3060	1430	1130	3170	1270
17	2290	3110	9130	5920	12300	10600	8530	2510	1460	996	2620	1150
18	3090	3160	7490	5920	17400	9870	8330	2180	1650	906	2110	1190
19	3270	3100	6410	5760	29100	10300	7540	2000	1870	855	1700	1280
20	3050	3000	5900	4820	30700	15900	6230	1880	2690	817	1470	1260
21	2830	2810	5660	4030	29100	22800	5260	1780	4250	770	1340	1230
22	2660	2680	5520	3400	22800	29100	4730	1720	4360	724	1280	1120
23	2640	2630	5310	2980	18600	29600	4370	1730	3700	663	1210	1010
24	2600	2550	4820	2400	18500	22500	4530	2920	3050	647	1110	970
25	2460	2590	4190	2040	19000	17700	9360	7340	2520	610	981	1080
26	2540	2640	3630	1930	20100	15300	14600	15000	2140	603	928	1270
27	2630	2670	3020	1830	20700	13800	15600	16100	1890	563	1690	1260
28	2330	2660	2660	1750	22200	12600	15200	16400	1760	557	2190	1410
29	2250	2700	2430	1650	21900	11300	14300	15100	1600	951	2360	1660
30	2320	2770	2280	1540	---	9330	12600	13600	1710	2240	2220	1780
31	2430	---	2120	1470	---	7230	---	11700	---	2990	1840	---
TOTAL	58124	82120	142230	185720	329330	389940	282090	209750	104670	38282	98859	35224
MEAN	1875	2737	4588	5991	11360	12580	9403	6766	3489	1235	3189	1174
MAX	3270	3160	12900	16400	30700	29600	15600	16400	10300	2990	6640	1780
MIN	655	2130	2120	1470	1420	4140	4370	1720	1430	557	928	858

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2000, BY WATER YEAR (WY)

MEAN	5389	10230	16260	19020	22170	20280	15570	13210	8901	4676	2853	4090
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1970 - 2000	
ANNUAL TOTAL	2678784		1956339		11830	
ANNUAL MEAN	7339		5345		22070	
HIGHEST ANNUAL MEAN					5345	
LOWEST ANNUAL MEAN					85200	
HIGHEST DAILY MEAN	48800	Jan 27	30700	Feb 20	85200	Mar 7 1997
LOWEST DAILY MEAN	162	Sep 6	557	Jul 28	162	Sep 6 1999
ANNUAL SEVEN-DAY MINIMUM	186	Sep 5	624	Jul 22	186	Sep 5 1999
INSTANTANEOUS PEAK FLOW			31900	Feb 21	208000	Jan 27 1937
INSTANTANEOUS PEAK STAGE			21.83	Feb 21	42.40	Jan 30 1937
INSTANTANEOUS LOW FLOW					107	Sep 14 1999
10 PERCENT EXCEEDS	20800		13800		30000	
50 PERCENT EXCEEDS	2740		2820		7200	
90 PERCENT EXCEEDS	344		1110		1410	



GREEN RIVER BASIN

03320500 POND RIVER NEAR APEX, KY

LOCATION.--Lat 37°07'20", long 87°19'10", Muhlenberg County, Hydrologic Unit 05110006, on downstream side of 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 mi².

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

REVISED RECORDS.--WSP 1083: 1942-46. WSP 1555: 1945-46(P), drainage area, WRD KY-93: 1989-91(P), 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 19	0200	*2,880	*16.71	No other peak greater than base discharge.			

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	e.00	e.00	e.00	7.4	e23	203	57	177	193	17	74	5.4
2	e.00	e.00	e.00	7.5	e22	142	76	151	132	16	65	5.1
3	e.00	e.00	e.00	194	e21	114	610	135	97	15	48	4.7
4	e.00	e.00	e.00	929	e22	94	1450	768	77	14	30	4.3
5	e.00	e.00	e.20	e680	e22	80	1180	2020	65	13	21	3.6
6	e.00	e.00	e.50	e380	e21	68	869	1350	56	13	16	3.3
7	e.00	e.00	e.50	e180	e21	60	485	976	49	12	11	4.9
8	e.20	e.00	e.70	e110	e20	57	285	597	44	10	17	5.4
9	5.8	e.00	e1.0	e90	e20	50	186	333	38	9.9	27	5.0
10	30	e.00	2.5	e70	19	51	160	193	32	8.8	22	5.0
11	e30	e.00	4.2	e55	e19	45	148	140	28	8.1	14	11
12	e6.0	e.00	24	e50	e19	43	171	105	25	7.5	11	86
13	e2.0	e.00	363	46	e25	37	184	501	24	e6.2	9.0	42
14	e1.0	e.00	534	42	e257	34	164	635	32	e5.2	8.1	20
15	e.50	e.00	336	37	e243	33	147	324	27	e4.4	7.3	8.1
16	e.20	e.00	168	33	e199	483	131	163	21	e3.8	6.5	4.7
17	e.10	e.00	104	30	161	924	135	123	20	e3.6	5.9	3.0
18	e.04	e.00	75	34	2020	762	166	89	21	e3.4	5.4	e2.2
19	e.02	e.00	55	50	e2600	649	154	71	24	e4.3	4.9	e1.8
20	e.01	e.10	42	52	e1500	1080	136	61	28	e6.0	4.7	e1.6
21	e.00	e.20	32	45	e900	937	121	53	31	e5.0	4.3	e1.3
22	e.00	e.10	25	38	e600	606	106	48	26	e4.6	4.1	e1.2
23	e.00	e.03	20	36	e440	322	95	47	21	e4.0	4.3	e1.1
24	e.00	e.00	17	34	345	193	166	66	19	e3.8	4.8	1.1
25	e.00	e.00	14	30	321	138	994	256	18	e3.6	3.9	2.0
26	e.00	e.00	12	28	235	107	905	381	17	e3.4	3.7	3.7
27	e.00	e.00	11	25	489	94	568	961	18	e3.2	4.9	8.9
28	e.00	e.00	9.9	22	607	97	524	1340	21	e3.0	6.2	7.3
29	e.00	e.00	9.3	20	361	84	475	1090	21	e250	7.1	5.1
30	e.00	e.00	8.7	21	---	73	263	760	20	463	6.6	3.8
31	e.00	---	8.0	22	---	64	---	393	---	174	5.8	---
TOTAL	75.87	0.43	1877.50	3397.9	11552	7724	11111	14307	1245	1098.8	463.5	262.6
MEAN	2.45	.014	60.6	110	398	249	370	462	41.5	35.4	15.0	8.75
MAX	30	.20	534	929	2600	1080	1450	2020	193	463	74	86
MIN	.00	.00	.00	7.4	19	33	57	47	17	3.0	3.7	1.1
CFSM	.01	.00	.31	.56	2.05	1.28	1.91	2.38	.21	.18	.08	.05
IN.	.01	.00	.36	.65	2.22	1.48	2.13	2.74	.24	.21	.09	.05

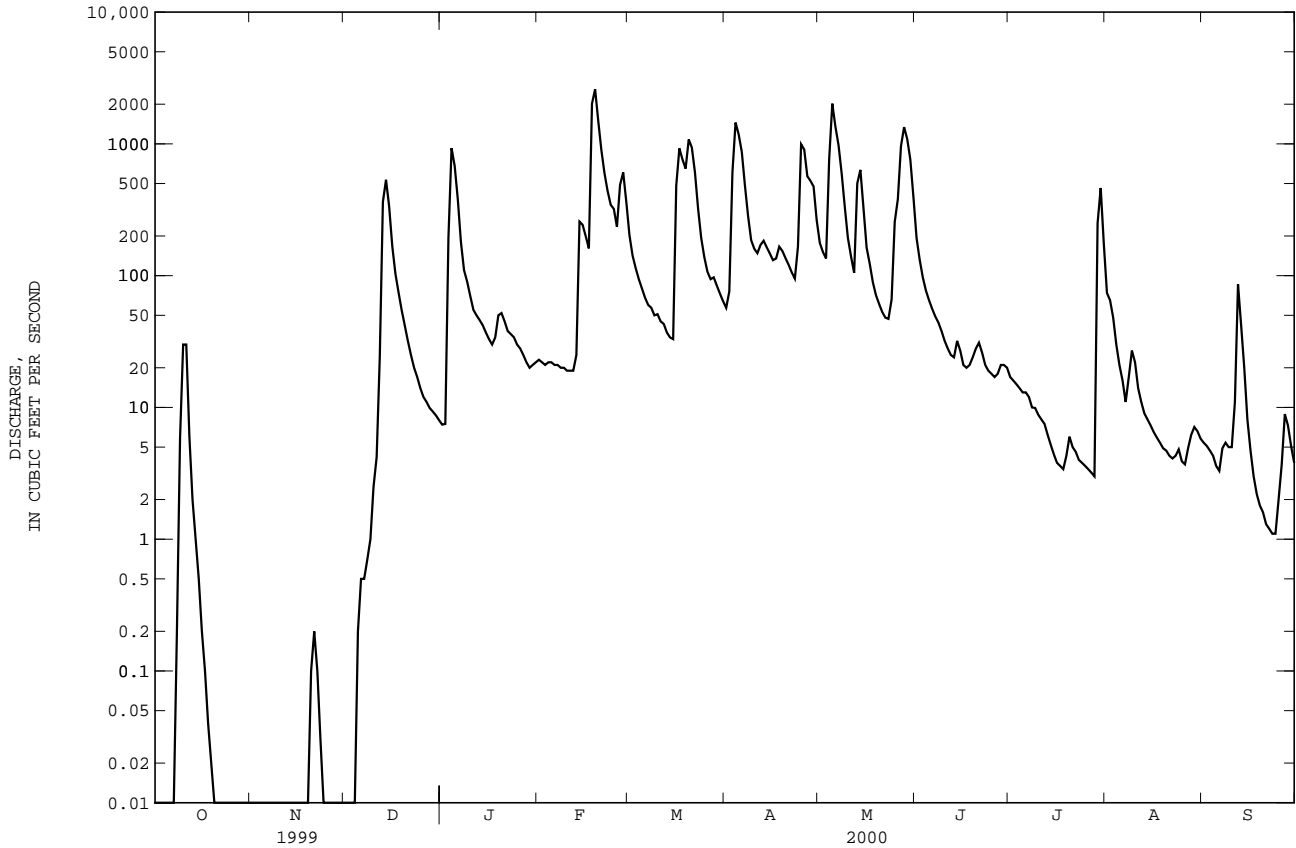
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2000, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)
MEAN	22.0	168	391	457
MAX	208	1430	2167	2024
(WY)	1986	1958	1979	1950
MIN	.000	.000	.000	3.56
(WY)	1954	1954	1964	1981
				1941
				1941
				1986
				1941
				1964
				1964
				1993
				1953

03320500 POND RIVER NEAR APEX, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1941 - 2000	
ANNUAL TOTAL	73559.87		53115.60		272	
ANNUAL MEAN	202		145		643	
HIGHEST ANNUAL MEAN					1979	
LOWEST ANNUAL MEAN					59.8	
HIGHEST DAILY MEAN	5000	Jan 23	2600	Feb 19	28400	Feb 15 1989
LOWEST DAILY MEAN	.00	Sep 4	.00	Oct 1	.00	Oct 21 1940
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 4	.00	Oct 1	.00	Oct 21 1940
INSTANTANEOUS PEAK FLOW			2880		35700	
INSTANTANEOUS PEAK STAGE			16.71		26.81	
ANNUAL RUNOFF (CFSM)	1.04		.75		1.40	
ANNUAL RUNOFF (INCHES)	14.11		10.19		19.07	
10 PERCENT EXCEEDS	556		484		718	
50 PERCENT EXCEEDS	17		22		46	
90 PERCENT EXCEEDS	.00		.00		.70	

e Estimated



GREEN RIVER BASIN

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 mi².

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.

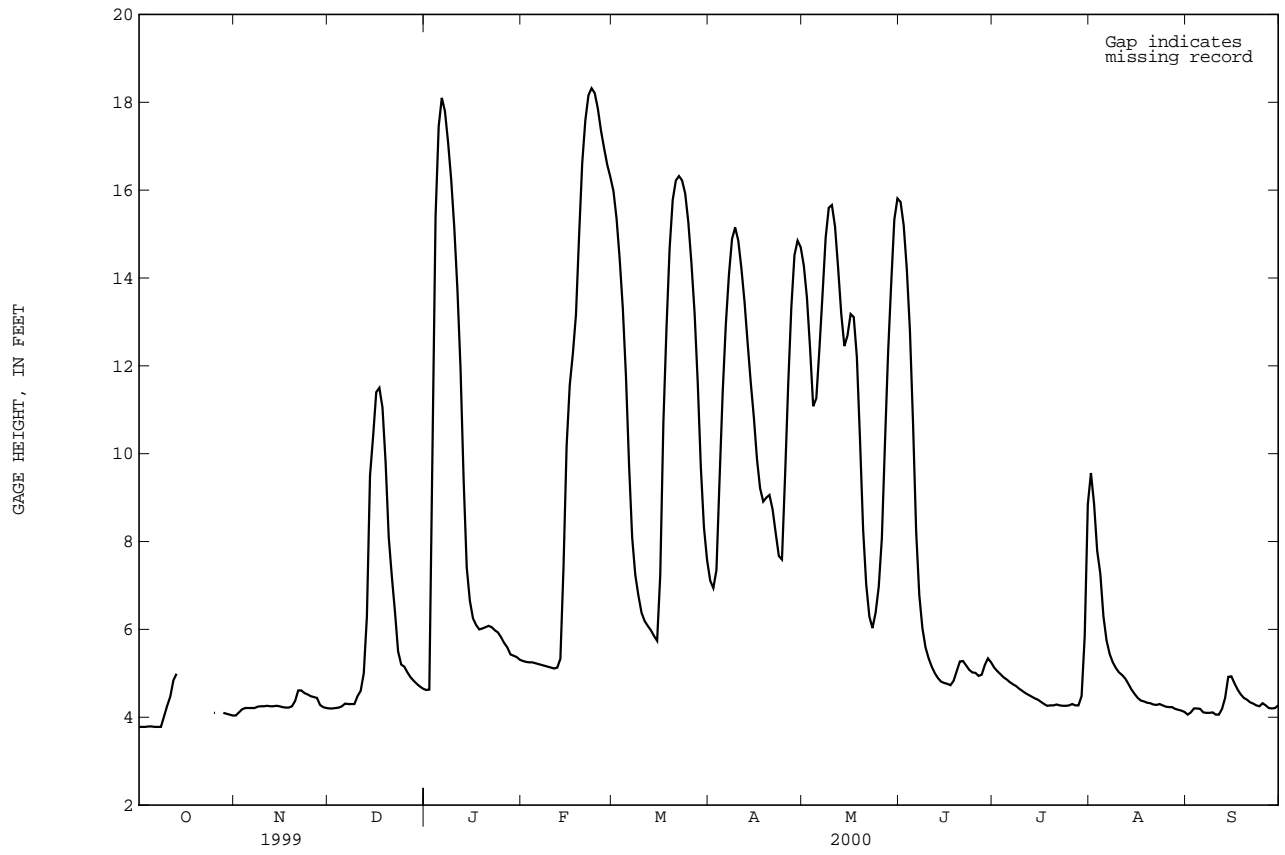
COOPERATION.--Kentucky Natural Resources and Environmental Protection Cabinet.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.78	4.04	4.20	4.62	5.28	15.98	7.11	14.28	15.73	5.13	9.56	4.06
2	3.78	4.11	4.20	4.63	5.26	15.35	6.94	13.55	15.20	5.05	8.86	4.11
3	3.78	4.18	4.21	10.08	5.25	14.43	7.35	12.40	14.20	4.98	7.79	4.20
4	3.79	4.21	4.22	15.40	5.25	13.31	9.41	11.08	12.80	4.91	7.27	4.20
5	3.79	4.21	4.25	17.45	5.23	11.78	11.39	11.26	10.68	4.86	6.30	4.19
6	3.78	4.21	4.31	18.10	5.21	9.75	12.93	12.39	8.22	4.80	5.75	4.11
7	3.78	4.21	4.30	17.80	5.19	8.09	14.07	13.63	6.78	4.75	5.44	4.10
8	3.78	4.24	4.30	17.10	5.17	7.24	14.89	14.92	6.03	4.71	5.25	4.10
9	4.02	4.25	4.30	16.25	5.15	6.77	15.15	15.60	5.59	4.65	5.12	4.11
10	4.26	4.25	4.48	15.15	5.13	6.38	14.85	15.66	5.34	4.60	5.02	4.06
11	4.47	4.26	4.60	13.75	5.11	6.19	14.22	15.17	5.15	4.55	4.96	4.06
12	4.84	4.25	5.00	11.95	5.13	6.08	13.46	14.22	5.00	4.51	4.88	4.19
13	4.99	4.25	6.29	9.40	5.33	5.98	12.52	13.18	4.89	4.47	4.76	4.44
14	---	4.26	9.50	7.40	7.41	5.85	11.62	12.45	4.81	4.43	4.63	4.92
15	---	4.25	10.40	6.65	10.18	5.74	10.82	12.69	4.78	4.40	4.53	4.93
16	---	4.23	11.40	6.25	11.56	7.24	9.87	13.18	4.76	4.35	4.44	4.77
17	---	4.22	11.50	e6.10	12.28	10.70	9.21	13.11	4.73	4.30	4.38	4.63
18	---	4.22	11.05	e6.00	13.17	12.86	8.91	12.20	4.83	4.26	4.36	4.52
19	---	4.25	9.80	e6.02	14.97	14.67	9.00	10.33	5.05	4.27	4.33	4.44
20	---	4.37	8.10	e6.05	16.62	15.78	9.06	8.28	5.27	4.27	4.32	4.40
21	---	4.61	7.20	6.08	17.59	16.22	8.73	7.02	5.28	4.29	4.29	4.34
22	---	4.61	6.40	6.05	18.16	16.32	8.19	6.29	5.18	4.27	4.28	4.31
23	---	4.55	5.50	5.98	18.32	16.22	7.67	6.03	5.08	4.26	4.30	4.27
24	---	4.52	5.20	5.93	18.21	15.92	7.59	6.38	5.02	4.26	4.27	4.25
25	e4.10	4.48	5.15	5.82	17.86	15.27	9.51	6.97	5.01	4.27	4.24	4.32
26	---	4.46	5.02	5.69	17.36	14.33	11.59	8.07	4.94	4.30	4.23	4.27
27	---	4.44	4.91	5.59	16.96	13.20	13.34	10.24	4.97	4.27	4.23	4.21
28	4.10	4.28	4.83	5.43	16.58	11.63	14.52	12.30	5.19	4.27	4.19	4.20
29	4.08	4.23	4.76	5.40	16.30	9.69	14.85	13.88	5.34	4.48	4.17	4.21
30	4.06	4.21	4.70	5.37	---	8.32	14.70	15.33	5.25	5.84	4.15	4.27
31	4.04	---	4.65	5.31	---	7.58	---	15.81	---	8.85	4.12	---
MEAN	4.07	4.30	6.09	8.99	10.73	11.12	11.12	11.87	6.70	4.70	5.11	4.31
MAX	4.99	4.61	11.50	18.10	18.32	16.32	15.15	15.81	15.73	8.85	9.56	4.93
MIN	3.78	4.04	4.20	4.62	5.11	5.74	6.94	6.03	4.73	4.26	4.12	4.06

e Estimated

03321060 POND RIVER NEAR MADISONVILLE, KY--Continued



WABASH RIVER BASIN

03378500 WABASH RIVER AT NEW HARMONY, IN

(National stream-quality accounting network station)

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

DRAINAGE AREA.--29,234 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES.--October 1974 to 1986, 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 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, SATUR-ATION (PER-CENT) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV											
22...	1140	ENVIRONMENTAL	3440	.079	720	8.3	12.0	16	13.1	122	270
DEC											
14...	1210	ENVIRONMENTAL	4840	.081	783	8.2	7.5	19	13.2	113	270
14...	1218	FIELD BLANK	--	--	--	--	--	--	--	--	--
MAR											
21...	1210	ENVIRONMENTAL	23200	.171	528	8.2	10.0	60	11.8	105	210
21...	1220	REPLICATE	--	.165	--	--	--	65	--	--	210
APR											
04...	1150	ENVIRONMENTAL	12400	.104	591	8.4	14.0	25	11.1	109	250
25...	1240	ENVIRONMENTAL	26500	.126	463	7.6	14.5	51	9.0	90	200
25...	1248	FIELD BLANK	--	--	--	--	--	--	--	--	--
MAY											
09...	1300	ENVIRONMENTAL	11900	.096	--	7.6	--	32	--	--	250
09...	1308	FIELD BLANK	--	--	--	--	--	--	--	--	--
23...	1200	ENVIRONMENTAL	16300	.116	626	7.9	22.0	53	8.4	99	250
JUN											
11...	1300	ENVIRONMENTAL	14600	.112	608	8.0	26.0	47	10.4	130	260
11...	1308	FIELD BLANK	--	--	--	--	--	--	--	--	--
27...	1220	ENVIRONMENTAL	56000	.177	441	7.3	25.0	78	5.5	67	190
27...	1228	FIELD BLANK	--	--	--	--	--	--	--	--	--
JUL											
11...	1210	ENVIRONMENTAL	35300	.167	445	7.5	28.0	2.0	5.7	74	190
11...	1220	REPLICATE	--	.162	--	--	--	4.0	--	--	190
AUG											
13...	1140	ENVIRONMENTAL	22500	.173	376	7.6	26.0	74	6.2	77	150

WABASH RIVER BASIN

03378500 WABASH RIVER AT NEW HARMONY, IN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, TOTAL DIS- SOLVED (MG/L AS N) (00600)
NOV												
22...	62	27	44	3.9	227	186	55	90	.29	E.060	389	1.8
DEC												
14...	67	26	44	3.7	231	190	57	110	.27	.43	450	2.3
14...	.005	<.001	<.025	--	--	--	--	--	--	<.020	--	--
MAR												
21...	55	18	23	3.3	154	126	33	70	.21	3.4	312	3.7
21...	55	18	23	3.3	162	133	34	71	.21	3.3	315	3.7
APR												
04...	65	20	22	2.8	180	148	38	69	.29	2.5	355	4.5
25...	54	16	16	3.1	158	129	26	54	.15	5.6	277	3.7
25...	.013	<.001	<.025	--	--	--	--	--	--	<.020	--	--
MAY												
09...	64	23	25	3.0	200	164	36	74	.24	.25	349	3.4
09...	--	--	--	--	--	--	--	--	--	--	--	--
23...	67	21	27	3.5	216	177	43	65	.24	3.8	371	4.8
JUN												
11...	66	23	19	3.0	200	164	36	60	.28	4.4	359	6.7
11...	--	--	--	--	--	--	--	--	--	--	--	--
27...	50	15	10	4.6	149	120	21	35	.16	7.9	269	6.9
27...	.006	<.001	<.025	--	--	--	--	--	--	<.020	--	--
JUL												
11...	51	16	11	4.1	162	133	20	35	.19	7.2	286	4.8
11...	51	16	11	3.9	--	--	20	35	.20	7.5	269	4.8
AUG												
13...	41	12	12	4.1	140	115	15	42	.17	6.8	227	2.2
DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	NITRO- GEN, AMMONIA SOLVED (MG/L AS NH4) (71846)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)
NOV												
22...	.55	<.010	.237	<.020	--	.31	1.6	.137	.011	--	--	--
DEC												
14...	1.3	.017	.987	<.020	.970	.35	1.3	.155	.015	--	--	4.3
14...	--	<.001	<.005	<.002	--	--	--	--	--	--	--	--
MAR												
21...	2.9	<.010	2.47	<.020	--	.47	1.2	.262	.044	.10	--	--
21...	2.9	<.010	2.44	<.020	--	.44	1.2	.252	.045	.10	--	--
APR												
04...	3.9	.010	3.47	<.020	3.46	.45	.98	.181	.021	.06	--	15
25...	3.1	.011	2.76	<.020	2.75	.31	.95	.248	.060	.16	--	12
25...	--	<.001	<.005	.002	--	--	--	--	--	--	M	--
MAY												
09...	2.6	.011	2.22	<.020	2.21	.34	1.2	.117	.010	.01	--	9.8
09...	--	--	--	--	--	--	--	--	--	--	--	--
23...	4.4	.018	4.00	<.020	3.98	.40	.84	.247	.071	.19	--	18
JUN												
11...	5.8	.013	5.44	<.020	5.42	.38	1.3	.254	.032	.01	--	24
11...	--	--	--	--	--	--	--	--	--	--	--	--
27...	6.4	.044	5.88	<.020	5.83	.57	.99	.341	.126	.31	--	26
27...	--	<.001	<.005	<.002	--	--	--	--	--	--	--	--
JUL												
11...	4.1	.015	3.75	<.020	3.73	.38	1.0	.342	.130	M	--	17
11...	4.2	.017	3.78	<.020	3.76	.45	1.0	.347	.130	.33	--	17
AUG												
13...	1.5	.017	1.08	<.020	1.06	.40	1.1	.310	.078	.19	--	4.7

WABASH RIVER BASIN

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	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)
NOV											
22...	--	<.001	--	--	E1	--	--	224	--	--	--
DEC											
14...	.06	<.001	--	--	<2	--	--	190	--	--	--
14...	--	<.001	<.30	<.20	--	<.20	<.20	<2.0	<.30	<.20	<.20
MAR											
21...	--	.034	--	--	<2	--	--	86	--	--	--
21...	--	.034	--	--	<2	--	--	86	--	--	--
APR											
04...	.03	.018	2.6	<1.0	E1	49	<1.0	80	<1.0	<.80	<1.0
25...	.04	.052	--	--	E2	--	--	80	--	--	--
25...	--	<.001	<.30	<.20	--	<.20	<.20	<2.0	<.30	<.20	<.20
MAY											
09...	.04	.002	7.0	<1.0	E1	53	<1.0	122	<1.0	<.80	<1.0
09...	--	--	--	--	--	--	--	--	--	--	--
23...	.06	.061	--	--	<2	--	--	113	--	--	--
JUN											
11...	.04	.004	3.2	<1.0	E2	54	<1.0	100	<1.0	E.48	<1.0
11...	--	--	--	--	--	--	--	--	--	--	--
27...	.14	.100	--	--	E1	--	--	53	--	--	--
27...	--	<.001	4.3	<.20	--	<.20	<.20	<2.0	<.30	<.20	<.20
JUL											
11...	.05	.001	--	--	2	--	--	66	--	--	--
11...	.06	.106	--	--	E2	--	--	69	--	--	--
AUG											
13...	.06	.062	5.3	<1.0	E1	37	<1.0	91	<1.0	<.80	<1.0
DATE	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	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)	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)
NOV											
22...	--	<10	--	8	--	--	--	<2	--	285	--
DEC											
14...	--	<10	--	7	--	--	--	<2	--	303	--
14...	<.20	<3.0	<.30	--	<.10	.30	<.50	--	<.20	<.10	<.10
MAR											
21...	--	E7.7	--	E3	--	--	--	E2	--	196	--
21...	--	10	--	E3	--	--	--	E1	--	196	--
APR											
04...	1.4	<10	<1.0	E3	1.6	4.5	1.3	<2	<1.0	246	--
25...	--	<10	--	<4	--	--	--	<2	--	169	--
25...	<.20	<3.0	<.30	--	<.10	<.20	<.50	--	<.20	<.10	<.10
MAY											
09...	1.7	<10	<1.0	E4	<1.0	5.7	2.6	E1	<1.0	231	--
09...	--	--	--	--	--	--	--	--	--	--	--
23...	--	<10	--	5	--	--	--	E2	--	253	--
JUN											
11...	2.0	<10	<1.0	5	<1.0	5.7	<1.0	<2	<1.0	249	--
11...	--	--	--	--	--	--	--	--	--	--	--
27...	--	E8.1	--	E2	--	--	--	<2	--	161	--
27...	<.20	<3.0	<.30	--	<.10	<.20	<.50	--	<.20	<.10	<.10
JUL											
11...	--	<10	--	<4	--	--	--	E1	--	154	--
11...	--	<10	--	<4	--	--	--	<2	--	161	--
AUG											
13...	2.0	E8.8	<1.0	E2	<1.0	2.9	2.2	<2	<1.0	125	--

WABASH RIVER BASIN

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO- CHLOR, WATER, FLTRD REC (UG/L) (49260)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALPHA BHC DISS- SOLVED (UG/L) (34253)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)
	NOV										
22...	<10	--	--	3.5	1.7	<.002	<.0020	.478	<.0020	<.0020	<.0040
DEC											
14...	<10	--	--	3.5	3.5	<.002	.0136	.326	<.0020	<.0020	.0069
14...	--	3.7	<.20	--	--	--	--	--	--	--	--
MAR											
21...	<10	--	--	5.2	3.0	--	--	--	--	--	--
21...	<10	--	--	5.2	3.2	E.005	E.0221	1.47	<.0020	<.0020	E.0029
APR											
04...	<10	2.4	1.2	4.2	3.8	<.002	.0161	.135	<.0020	<.0020	.0080
25...	<10	--	--	4.2	2.5	.012	.221	3.04	<.0020	<.0020	.0128
25...	--	1.1	<.20	--	--	--	--	--	--	--	--
MAY											
09...	<10	5.3	1.3	3.7	3.6	.006	.106	1.01	<.0020	<.0020	E.0035
09...	--	--	--	.45	<.20	<.002	<.0020	<.001	<.0020	<.0020	E.0029
23...	<10	--	--	4.5	2.5	.037	.564	5.17	<.0020	<.0020	.0068
JUN											
11...	<10	5.0	<1.0	4.0	3.3	.028	.246	3.75	<.0020	<.0020	<.0040
11...	--	--	--	.53	<.20	<.002	<.0020	<.001	<.0020	<.0020	<.0040
27...	<10	--	--	5.4	2.1	.080	.251	2.87	<.0020	<.0020	E.0025
27...	--	1.9	<.20	--	--	--	--	--	--	--	--
JUL											
11...	<10	--	--	5.1	1.5	.007	.0583	.646	<.0020	<.0020	E.0037
11...	<10	--	--	5.2	2.6	.011	.0682	.779	<.0020	<.0020	.0042
AUG											
13...	<10	1.7	<1.0	5.2	2.3	<.010	.0175	.244	<.0020	<.0020	<.0040
		DEETHYL									
	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)
NOV											
22...	.0579	E.162	<.002	<.001	<.0030	<.004	<.005	<.004	.057	<.0060	<.004
DEC											
14...	.0531	E.105	<.002	<.001	<.0030	<.004	<.005	<.004	.058	<.0060	<.004
14...	--	--	--	--	--	--	--	--	--	--	--
MAR											
21...	--	--	--	--	--	--	--	--	--	--	--
21...	.0163	E.123	.004	<.001	<.0030	<.004	<.005	.018	.087	<.0060	<.004
APR											
04...	.0112	E.0614	<.002	<.001	<.0030	<.004	<.005	<.010	.056	<.0060	<.004
25...	.0216	E.155	.005	<.001	<.0030	<.004	<.005	.067	.334	<.0060	<.004
25...	--	--	--	--	--	--	--	--	--	--	--
MAY											
09...	.0287	E.0983	E.003	<.001	<.0030	<.004	<.005	.014	.204	<.0060	<.004
09...	<.0040	<.0020	<.002	<.001	<.0030	<.004	<.005	<.004	<.002	<.0060	<.004
23...	.0553	E.391	.006	<.001	<.0030	<.004	<.005	.080	1.13	<.0060	<.004
JUN											
11...	.0408	E.467	E.004	<.001	<.0030	<.004	<.005	.026	.751	<.0060	<.004
11...	<.0040	<.0020	<.002	<.001	<.0030	<.004	<.005	<.004	<.002	<.0060	<.004
27...	.0398	E.596	.005	<.001	<.0030	<.004	<.005	.046	.920	<.0060	<.004
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	.0157	E.273	.006	<.001	<.0030	<.004	<.005	.011	.257	<.0060	<.004
11...	.0187	E.316	.009	<.001	<.0030	<.004	<.005	.012	.311	<.0060	<.004
AUG											
13...	.0156	E.120	.007	<.001	<.0030	<.004	<.005	<.004	.056	<.0060	<.004

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)
NOV											
22...	<.0070	E.0179	.0442	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
DEC											
14...	<.0070	E.0150	.282	<.0020	<.0030	<.0030	E.0015	<.0030	<.0170	<.0040	<.0040
14...	--	--	--	--	--	--	--	--	--	--	--
MAR											
21...	--	--	--	--	--	--	--	--	--	--	--
21...	<.0070	E.0103	1.31	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
APR											
04...	<.0070	E.0144	.0358	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
25...	<.0070	.0255	.310	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
25...	--	--	--	--	--	--	--	--	--	--	--
MAY											
09...	<.0070	.0212	.132	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
09...	<.0070	<.0180	<.0050	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
23...	<.0070	.0515	.564	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0100
JUN											
11...	<.0070	.0289	.136	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
11...	<.0070	<.0180	<.0050	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
27...	<.0070	.0364	.174	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0080
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	<.0070	.0333	.0600	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
11...	<.0070	.0342	.0685	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
AUG											
13...	<.0070	.0232	.0343	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
DATE	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
NOV											
22...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
DEC											
14...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
14...	--	--	--	--	--	--	--	--	--	--	--
MAR											
21...	--	--	--	--	--	--	--	--	--	--	--
21...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
APR											
04...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
25...	<.0030	E.0011	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
25...	--	--	--	--	--	--	--	--	--	--	--
MAY											
09...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
09...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
23...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
JUN											
11...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
11...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
27...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
11...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
AUG											
13...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030

WABASH RIVER BASIN

03378500 WABASH RIVER AT NEW HARMONY, IN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV											
22...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	35	325	100
DEC											
14...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	31	405	100
14...	--	--	--	--	--	--	--	--	--	--	--
MAR											
21...	--	--	--	--	--	--	--	--	155	9710	97
21...	<.0040	<.0130	E.0091	<.0070	<.0130	<.0010	<.0020	<.0020	--	--	--
APR											
04...	<.0040	<.0130	E.0127	<.0070	<.0130	<.0010	<.0020	<.0020	85	2850	98
25...	<.0040	<.0130	E.0073	<.0070	<.0130	<.0010	<.0020	<.0020	155	11100	97
25...	--	--	--	--	--	--	--	--	--	--	--
MAY											
09...	<.0040	<.0130	E.0093	<.0070	<.0130	<.0010	<.0020	<.0020	93	2990	99
09...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	--	--	--
23...	<.0040	<.0130	.0101	<.0070	<.0130	<.0010	<.0020	<.0020	160	7040	99
JUN											
11...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	156	6150	99
11...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	--	--	--
27...	<.0040	<.0130	E.0171	<.0070	<.0130	<.0010	<.0020	<.0020	201	30400	96
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	<.0040	<.0130	E.0101	<.0070	<.0130	<.0010	<.0020	<.0020	194	18500	97
11...	<.0040	<.0130	.0116	<.0070	<.0130	<.0010	<.0020	<.0020	--	--	--
AUG											
13...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	205	12500	98

TRADEWATER RIVER BASIN

03383000 TRADEWATER RIVER AT OLNEY, KY

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

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

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

GAGE.--Water-stage recorder. Datum of gage is 362.80 ft above 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 ft³/s, by slope-area measurement from U.S. Army Corp of Engineers.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 4	2000	*2,900	*14.66	Feb 19	2300	2,030	12.83

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	.21	.84	2.5	8.0	39	540	123	254	225	83	154	3.5
2	.18	1.0	2.4	16	36	288	120	201	155	58	111	3.8
3	.17	.97	2.5	1500	34	212	152	170	123	40	118	4.3
4	.15	.83	2.6	2670	34	185	614	154	100	30	91	4.2
5	.14	.72	2.6	e2600	33	170	1050	240	81	24	63	3.1
6	.12	.69	2.4	e2000	31	151	838	613	65	18	61	2.4
7	.10	.72	2.4	e1600	29	133	417	421	51	13	47	1.8
8	.30	.82	2.8	e1100	28	120	619	229	41	11	31	2.5
9	e4.8	.96	3.2	e680	26	113	640	175	32	8.0	22	2.9
10	e12	1.7	6.5	290	26	101	371	148	24	6.1	16	3.4
11	25	1.9	8.3	180	40	86	264	126	17	5.0	12	7.8
12	30	1.2	26	150	44	80	324	111	9.5	3.9	9.0	82
13	20	1.0	148	131	57	74	375	111	5.1	3.2	6.8	51
14	7.9	1.0	292	116	556	69	303	507	3.9	2.4	6.1	87
15	3.7	1.0	393	110	743	64	240	482	6.5	1.9	5.1	50
16	2.6	1.0	255	98	457	705	205	219	5.4	1.9	4.2	22
17	1.7	1.0	151	88	253	1750	306	160	5.6	1.4	3.6	9.6
18	.95	1.0	108	85	1140	e1700	413	132	5.3	1.5	3.8	4.7
19	1.1	1.6	83	90	1950	e1500	275	112	8.9	4.2	3.7	2.7
20	1.5	5.2	67	92	1990	e1500	222	97	35	9.0	3.4	2.2
21	1.8	10	57	84	e1800	e1400	185	87	38	21	3.3	1.8
22	1.5	16	47	76	e1500	e1000	157	71	28	13	3.2	1.4
23	1.0	15	38	70	e900	e620	139	77	18	8.2	3.2	.98
24	.73	13	31	67	478	371	202	108	11	6.3	3.9	2.0
25	.57	11	25	66	423	268	1190	91	6.2	4.0	4.1	6.8
26	.52	8.4	21	54	421	223	1360	89	3.8	1.8	4.8	14
27	.53	6.3	17	48	1100	202	904	314	20	2.0	5.9	13
28	.54	4.8	15	43	1380	192	603	1330	167	2.4	3.5	7.8
29	.58	3.7	13	37	1020	170	543	e1200	168	8.3	3.5	4.6
30	.62	2.8	11	35	---	151	377	e1100	123	173	3.5	3.5
31	.73	---	10	36	---	137	---	e640	---	221	3.7	---
TOTAL	121.74	116.15	1846.2	14220.0	16568	14275	13531	9769	1582.2	786.5	814.3	406.78
MEAN	3.93	3.87	59.6	459	571	460	451	315	52.7	25.4	26.3	13.6
MAX	30	16	393	2670	1990	1750	1360	1330	225	221	154	87
MIN	.10	.69	2.4	8.0	26	64	120	71	3.8	1.4	3.2	.98
CFSM	.02	.02	.24	1.86	2.32	1.87	1.83	1.28	.21	.10	.11	.06
IN.	.02	.02	.28	2.15	2.51	2.16	2.05	1.48	.24	.12	.12	.06

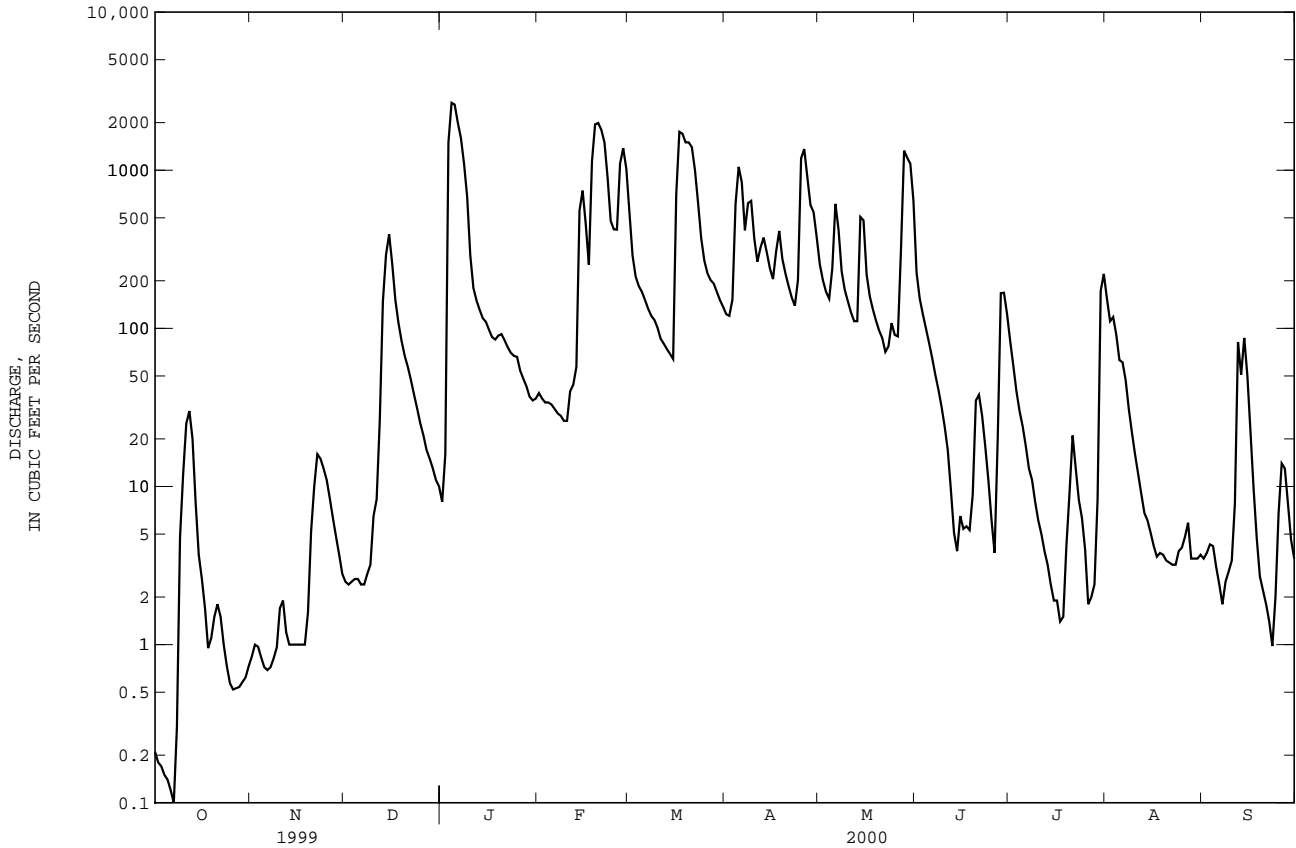
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2000, BY WATER YEAR (WY)

	MEAN	203	435	568	728	773	592	394	152	91.1	36.3	49.6
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1941 - 2000	
ANNUAL TOTAL	94520.05		74036.87		332	
ANNUAL MEAN	259		202		701	
HIGHEST ANNUAL MEAN					1989	
LOWEST ANNUAL MEAN					61.6	
HIGHEST DAILY MEAN	4580	Jan 24	2670	Jan 4	14000	Feb 16 1989
LOWEST DAILY MEAN	.10	Oct 7	.10	Oct 7	.00	Oct 1 1940
ANNUAL SEVEN-DAY MINIMUM	.15	Oct 1	.15	Oct 1	.00	Oct 1 1940
INSTANTANEOUS PEAK FLOW			2900		14600	
INSTANTANEOUS PEAK STAGE			14.66		18.85	
ANNUAL RUNOFF (CFSM)	1.05		.82		1.35	
ANNUAL RUNOFF (INCHES)	14.29		11.20		18.31	
10 PERCENT EXCEEDS	902		616		1120	
50 PERCENT EXCEEDS	39		34		62	
90 PERCENT EXCEEDS	.55		1.3		1.1	

e Estimated



OHIO RIVER MAIN STEM

03399800 OHIO RIVER AT SMITHLAND DAM NEAR 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 mi², 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 except those estimated, which are poor. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26100	12300	111000	36200	25100	e420000	142000	229000	171000	150000	54300	65200
2	26600	12600	80000	31600	29200	376000	131000	193000	183000	155000	68700	49700
3	12500	20200	57200	104000	41000	316000	118000	154000	192000	133000	74400	38200
4	31600	54400	54700	235000	31500	260000	116000	124000	165000	106000	87000	38700
5	19100	66400	49600	289000	39000	232000	152000	121000	131000	91700	75000	48200
6	17900	66200	42900	318000	40100	207000	194000	136000	94500	117000	79400	49700
7	30700	66100	29100	298000	37400	174000	226000	119000	71100	132000	72800	38000
8	12700	65100	35100	256000	35700	148000	266000	95900	75500	147000	94900	38200
9	22400	48200	52600	225000	34500	125000	306000	97800	73800	148000	119000	29900
10	52400	37100	62500	199000	39400	104000	344000	98000	92000	120000	157000	28700
11	29700	30200	53700	165000	38700	72300	362000	81700	91800	110000	171000	30100
12	26100	29900	56400	147000	41100	72500	374000	75100	81300	94500	175000	63400
13	44600	29900	84300	120000	74900	84100	e370000	73000	55000	145000	166000	69800
14	29100	27200	102000	98200	117000	95500	363000	73100	52000	147000	141000	54100
15	24700	16200	136000	89600	194000	115000	355000	89700	66400	155000	105000	50300
16	32800	26800	152000	97900	312000	146000	338000	71700	64900	122000	73500	58700
17	20200	30300	174000	95800	e330000	188000	317000	66900	87600	115000	54900	50400
18	36200	23900	208000	79300	e340000	204000	282000	60700	137000	114000	53300	38200
19	13600	24600	213000	56100	e345000	204000	241000	52000	181000	115000	59000	30400
20	36200	23000	209000	57500	e355000	238000	212000	60400	189000	97000	60300	26600
21	15900	19800	156000	54800	369000	272000	222000	73700	202000	103000	50800	27500
22	16400	22000	111000	66400	399000	299000	243000	76900	198000	105000	64100	40700
23	17400	18900	92600	52100	419000	316000	266000	102000	187000	100000	62400	44900
24	19100	19000	69600	33500	441000	321000	271000	120000	184000	83200	58600	40800
25	24300	22000	67000	30800	456000	319000	257000	127000	194000	58300	58900	54600
26	30000	25900	54700	32700	467000	310000	243000	120000	211000	42600	93400	82400
27	9520	48900	34700	42300	481000	296000	236000	146000	200000	31400	85100	132000
28	7270	89900	38800	46900	467000	258000	242000	169000	170000	38900	82600	155000
29	27000	106000	36500	43700	e450000	213000	238000	166000	144000	65900	82400	162000
30	28000	108000	36700	33100	---	175000	241000	159000	137000	33600	75200	156000
31	20200	---	35000	25100	---	145000	---	160000	---	68300	70400	---
TOTAL	760290	1191000	2695700	3459600	6449600	6705400	7668000	3491600	4081900	3244400	2725400	1792400
MEAN	24530	39700	86960	111600	222400	216300	255600	112600	136100	104700	87920	59750
MAX	52400	108000	213000	318000	481000	420000	374000	229000	211000	155000	175000	162000
MIN	7270	12300	29100	25100	25100	72300	116000	52000	52000	31400	50800	26600

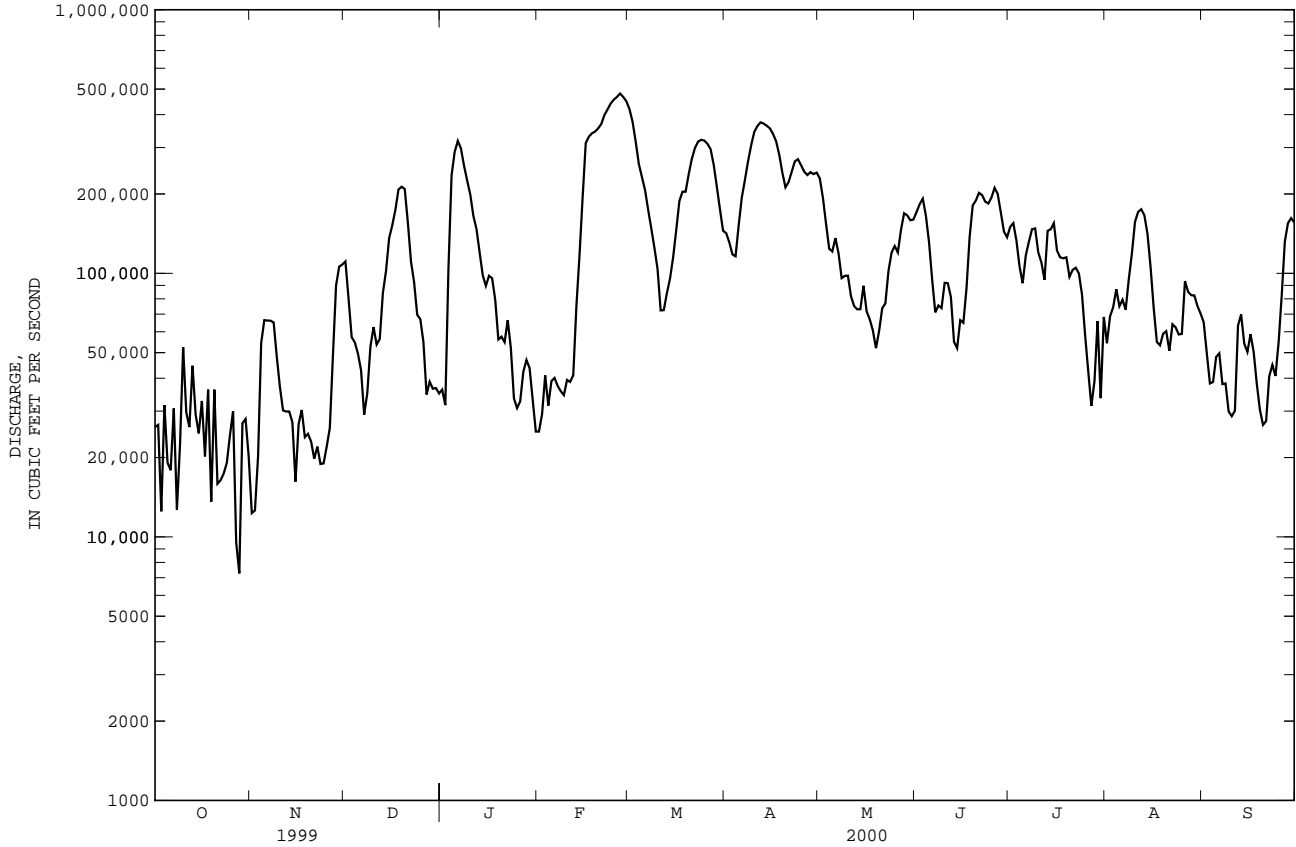
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000
MEAN	54310	114200	183200	218400	316900	391400	314500
MAX	107500	226400	379200	254400	536200	700900	594100
(WY)	1997	1994	1997	1998	1994	1997	1994
MIN	24530	39700	86960	111600	213000	216300	150000
(WY)	2000	2000	2000	2000	1995	2000	1995

03399800 OHIO RIVER AT SMITHLAND DAM NEAR SMITHLAND, KY--Continued

SUMMARY STATISTICS	FOR 2000 WATER YEAR		WATER YEARS 1994 - 2000	
ANNUAL TOTAL	44265290			
ANNUAL MEAN	120900		197900	
HIGHEST ANNUAL MEAN			247000	1994
LOWEST ANNUAL MEAN			120900	2000
HIGHEST DAILY MEAN	481000	Feb 27	831000	Mar 12 1997
LOWEST DAILY MEAN	7270	Oct 28	6870	Oct 13 1997
ANNUAL SEVEN-DAY MINIMUM	16700	Oct 27	16700	Oct 27 1999
INSTANTANEOUS PEAK FLOW	483000	Feb 27	832000	Mar 12 1997
INSTANTANEOUS PEAK STAGE	36.87	Feb 27	51.44	Mar 12 1997
10 PERCENT EXCEEDS	275000		464000	
50 PERCENT EXCEEDS	84700		134000	
90 PERCENT EXCEEDS	26900		31600	

e Estimated



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

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	136	134	135	98	94	96
2	---	---	---	---	---	---	134	130	131	100	95	98
3	---	---	---	---	---	---	130	126	128	96	93	95
4	---	---	---	---	---	---	130	75	111	96	93	94
5	---	---	---	---	---	---	100	76	82	99	96	98
6	---	---	---	---	---	---	105	98	101	101	97	99
7	---	---	---	---	---	---	114	105	111	101	98	99
8	---	---	---	---	---	---	112	107	108	101	100	100
9	---	---	---	---	---	---	110	104	108	101	99	100
10	---	---	---	---	---	---	114	108	111	101	100	100
11	---	---	---	---	---	---	115	106	111	104	100	101
12	---	---	---	---	---	---	107	104	106	105	105	105
13	---	---	---	---	---	---	104	101	102	106	105	105
14	---	---	---	---	---	---	102	99	100	106	105	106
15	---	---	---	---	---	---	102	100	101	108	106	107
16	---	---	---	---	---	---	100	96	98	109	108	109
17	---	---	---	---	---	---	97	93	95	110	109	109
18	---	---	---	---	---	---	99	94	96	111	110	110
19	---	---	---	---	---	---	99	94	96	111	110	111
20	---	---	---	---	---	---	99	97	98	112	111	111
21	---	---	---	122	117	119	102	98	100	113	112	112
22	---	---	---	118	116	118	103	100	101	114	113	113
23	---	---	---	130	120	123	103	101	102	115	114	114
24	---	---	---	133	129	130	103	101	102	115	115	115
25	---	---	---	136	126	132	105	102	103	117	116	116
26	---	---	---	136	131	134	107	101	104	119	118	118
27	---	---	---	135	132	133	104	96	101	120	119	120
28	---	---	---	132	114	125	103	94	99	121	120	121
29	---	---	---	127	125	126	96	89	93	122	119	121
30	---	---	---	136	126	128	99	91	94	119	116	118
31	---	---	---	136	135	136	---	---	---	119	118	118
MONTH	---	---	---	---	---	---	136	75	104	122	93	108
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	118	117	118	133	131	132	154	153	153	179	171	174
2	117	115	116	134	133	133	154	153	154	177	174	176
3	117	115	116	135	134	134	155	154	154	178	175	177
4	116	113	115	136	134	135	155	154	154	179	174	176
5	115	113	114	136	135	136	154	153	153	177	176	176
6	116	113	115	138	136	137	154	152	153	180	177	178
7	115	113	114	139	138	138	157	153	155	180	174	176
8	115	113	114	---	---	---	160	159	159	176	173	175
9	116	114	115	---	---	---	162	160	161	177	175	176
10	117	116	116	---	---	---	165	161	163	180	176	178
11	118	117	118	147	146	147	---	---	---	177	175	176
12	119	118	118	147	147	147	---	---	---	180	177	178
13	120	119	119	147	147	147	---	---	---	179	178	178
14	121	120	120	148	147	148	163	162	162	180	177	179
15	121	120	121	149	148	148	---	---	---	182	179	180
16	122	121	122	149	148	149	---	---	---	183	180	181
17	122	121	122	150	148	150	---	---	---	183	180	181
18	122	122	122	151	150	150	---	---	---	185	181	183
19	123	122	123	151	150	151	---	---	---	187	185	186
20	124	123	123	151	151	151	---	---	---	187	185	186
21	124	124	124	153	150	152	---	---	---	184	182	182
22	126	125	125	153	152	152	169	168	169	182	179	181
23	126	125	126	154	153	153	170	168	169	185	181	183
24	128	126	127	154	153	154	170	167	168	186	183	185
25	129	128	128	154	153	153	173	168	171	188	185	186
26	129	129	129	156	153	154	175	171	173	189	186	187
27	131	125	128	157	156	156	172	171	172	189	187	188
28	127	125	126	157	155	156	174	172	173	192	189	190
29	129	127	128	157	155	156	175	172	173	193	189	191
30	130	128	129	156	154	155	174	171	172	191	189	190
31	---	---	---	156	153	154	177	174	176	---	---	---
MONTH	131	113	121	---	---	---	---	---	---	193	171	181

CUMBERLAND RIVER BASIN

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

PUMP LEVEL 2
SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	153	151	152	---	---	---	---	---	---	---	---	---
2	154	150	152	---	---	---	---	---	---	---	---	---
3	154	153	153	---	---	---	---	---	---	---	---	---
4	153	149	152	---	---	---	---	---	---	---	---	---
5	150	148	149	---	---	---	---	---	---	---	---	---
6	150	148	149	---	---	---	---	---	---	---	---	---
7	149	148	149	---	---	---	---	---	---	---	---	---
8	151	149	150	---	---	---	---	---	---	---	---	---
9	151	150	150	---	---	---	---	---	---	---	---	---
10	151	150	150	---	---	---	---	---	---	---	---	---
11	150	149	150	---	---	---	---	---	---	---	---	---
12	150	146	148	---	---	---	---	---	---	---	---	---
13	150	144	149	---	---	---	---	---	---	---	---	---
14	152	144	151	---	---	---	---	---	---	---	---	---
15	152	147	149	---	---	---	---	---	---	---	---	---
16	149	148	149	---	---	---	---	---	---	---	---	---
17	151	149	150	---	---	---	---	---	---	---	---	---
18	151	149	150	---	---	---	---	---	---	---	---	---
19	151	149	150	---	---	---	---	---	---	---	---	---
20	150	150	150	---	---	---	---	---	---	---	---	---
21	151	150	151	---	---	---	---	---	---	---	---	---
22	152	150	151	---	---	---	---	---	---	---	---	---
23	151	151	151	---	---	---	---	---	---	---	---	---
24	153	152	153	---	---	---	---	---	---	---	---	---
25	153	152	152	---	---	---	---	---	---	---	---	---
26	154	153	154	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	133	123	127	112	102	107
2	---	---	---	---	---	---	129	121	126	109	101	106
3	---	---	---	---	---	---	128	123	126	106	102	104
4	---	---	---	---	---	---	128	74	107	108	102	105
5	---	---	---	---	---	---	85	77	79	108	103	106
6	---	---	---	---	---	---	110	95	100	108	104	106
7	---	---	---	---	---	---	114	105	109	110	105	107
8	---	---	---	---	---	---	108	103	106	108	104	106
9	---	---	---	---	---	---	108	99	104	109	105	107
10	---	---	---	---	---	---	112	103	108	108	103	105
11	---	---	---	---	---	---	113	105	107	108	104	106
12	---	---	---	---	---	---	108	106	107	111	108	109
13	---	---	---	---	---	---	105	102	103	112	107	109
14	---	---	---	---	---	---	104	100	102	109	107	108
15	---	---	---	---	---	---	103	100	102	111	106	109
16	---	---	---	---	---	---	103	97	100	111	109	110
17	---	---	---	---	---	---	99	95	97	112	109	110
18	---	---	---	---	---	---	101	96	98	111	110	110
19	---	---	---	---	---	---	107	99	104	113	110	111
20	---	---	---	---	---	---	106	101	104	112	111	112
21	---	---	---	121	119	120	106	100	104	113	112	112
22	---	---	---	123	118	120	107	105	106	114	112	113
23	---	---	---	130	119	122	107	104	106	116	115	115
24	---	---	---	128	119	124	105	102	104	117	114	115
25	---	---	---	131	120	125	104	102	103	120	116	118
26	---	---	---	131	124	128	104	101	102	122	119	120
27	---	---	---	130	126	128	114	98	105	124	118	120
28	---	---	---	126	114	121	107	99	104	126	118	121
29	---	---	---	124	117	120	108	96	103	126	118	121
30	---	---	---	131	123	125	113	99	106	132	115	120
31	---	---	---	134	125	130	---	---	---	117	113	115
MONTH	---	---	---	---	---	---	133	74	105	132	101	111

CUMBERLAND RIVER BASIN

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

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	124	123	123	109	108	109
2	---	---	---	---	---	---	123	121	121	118	109	114
3	---	---	---	---	---	---	121	117	119	114	110	112
4	---	---	---	---	---	---	124	81	108	114	112	113
5	---	---	---	---	---	---	106	82	90	115	113	114
6	---	---	---	---	---	---	103	96	98	114	112	113
7	---	---	---	---	---	---	109	103	105	114	111	113
8	---	---	---	---	---	---	103	101	102	113	113	113
9	---	---	---	---	---	---	101	99	100	113	112	112
10	---	---	---	---	---	---	108	99	104	114	108	112
11	---	---	---	---	---	---	107	105	106	117	104	112
12	---	---	---	---	---	---	106	104	105	116	114	115
13	---	---	---	---	---	---	105	103	104	115	110	113
14	---	---	---	---	---	---	103	103	103	114	111	112
15	---	---	---	---	---	---	102	100	101	116	112	114
16	---	---	---	---	---	---	101	99	100	117	115	116
17	---	---	---	---	---	---	101	98	100	118	116	117
18	---	---	---	---	---	---	100	98	99	118	115	117
19	---	---	---	---	---	---	105	98	103	119	115	118
20	---	---	---	---	---	---	106	104	105	119	118	118
21	---	---	---	121	119	120	106	103	105	119	118	118
22	---	---	---	120	118	119	112	105	108	121	118	120
23	---	---	---	120	119	119	105	105	105	120	117	118
24	---	---	---	120	119	119	106	104	105	125	117	121
25	---	---	---	121	119	120	105	103	104	126	123	125
26	---	---	---	122	121	121	104	102	103	127	126	126
27	---	---	---	121	119	120	110	103	104	134	119	126
28	---	---	---	118	115	116	109	104	107	137	120	130
29	---	---	---	116	115	116	108	107	108	140	132	136
30	---	---	---	124	114	116	109	106	107	135	130	133
31	---	---	---	125	123	124	---	---	---	137	133	134
MONTH	---	---	---	---	---	---	124	81	105	140	104	118
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	136	130	133	138	138	138	151	143	146	168	161	164
2	135	133	134	138	138	138	149	145	146	172	160	168
3	134	129	133	141	138	139	156	151	154	172	166	169
4	134	132	133	142	139	140	158	150	155	170	162	166
5	134	125	131	144	140	141	155	147	150	166	164	166
6	134	133	134	142	141	141	153	145	149	168	164	166
7	132	129	130	142	140	141	156	146	152	170	162	166
8	131	129	130	142	140	141	157	154	156	164	163	163
9	132	130	131	146	142	143	162	158	157	164	162	163
10	131	129	130	146	146	146	160	151	155	166	163	164
11	131	129	130	147	143	145	---	---	---	163	163	163
12	131	130	131	144	141	142	---	---	---	164	163	164
13	131	130	131	143	141	142	---	---	---	164	164	164
14	131	130	131	144	141	142	---	---	---	165	165	165
15	132	129	131	145	142	144	---	---	---	165	164	165
16	133	129	132	144	142	143	---	---	---	165	162	163
17	133	131	132	144	143	144	---	---	---	163	161	162
18	133	130	132	144	144	144	---	---	---	164	163	164
19	137	130	134	146	144	144	---	---	---	165	164	164
20	136	133	135	149	146	147	---	---	---	166	165	166
21	136	130	133	146	146	146	162	156	159	163	161	162
22	136	132	134	145	145	145	157	155	156	162	160	161
23	136	134	135	145	145	145	157	155	156	162	159	160
24	136	133	135	146	145	146	158	154	155	162	160	161
25	137	132	135	146	145	146	157	156	157	162	159	160
26	142	134	138	146	144	145	158	158	158	164	159	162
27	139	136	137	147	145	146	160	157	158	164	163	164
28	142	138	139	147	146	147	165	163	164	165	164	164
29	140	137	138	146	143	145	164	159	162	165	164	165
30	138	137	138	149	147	148	164	160	162	165	164	164
31	---	---	---	149	146	147	173	166	169	---	---	---
MONTH	142	125	133	149	138	144	---	---	---	172	159	164

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	13.4	13.3	13.4	14.0	13.9	14.0
2	---	---	---	---	---	---	13.7	13.3	13.5	14.1	13.2	13.5
3	---	---	---	---	---	---	13.8	13.4	13.6	13.9	13.3	13.8
4	---	---	---	---	---	---	13.8	13.6	13.7	13.9	13.8	13.8
5	---	---	---	---	---	---	13.4	12.9	13.2	14.0	13.9	13.9
6	---	---	---	---	---	---	12.8	12.5	12.6	14.1	14.0	14.0
7	---	---	---	---	---	---	12.9	12.5	12.6	14.2	14.0	14.1
8	---	---	---	---	---	---	13.1	12.6	12.7	14.3	14.1	14.2
9	---	---	---	---	---	---	13.2	12.7	13.0	14.3	14.2	14.2
10	---	---	---	---	---	---	13.1	12.8	13.0	14.4	14.3	14.4
11	---	---	---	---	---	---	13.1	12.8	12.9	14.4	14.4	14.4
12	---	---	---	---	---	---	13.0	12.8	12.8	13.9	13.8	13.8
13	---	---	---	---	---	---	12.9	12.9	12.9	14.6	14.0	14.4
14	---	---	---	---	---	---	13.0	12.8	12.9	14.7	14.6	14.6
15	---	---	---	---	---	---	13.0	12.9	12.9	14.7	14.6	14.6
16	---	---	---	---	---	---	13.0	12.9	13.0	14.8	14.7	14.8
17	---	---	---	---	---	---	13.0	13.0	13.0	14.8	14.7	14.8
18	---	---	---	---	---	---	13.4	13.0	13.2	14.8	14.8	14.8
19	---	---	---	---	---	---	13.2	13.1	13.2	14.9	14.8	14.9
20	---	---	---	---	---	---	13.3	13.2	13.2	15.1	14.9	15.0
21	---	---	---	12.5	12.1	12.3	13.5	13.3	13.4	15.1	15.1	15.1
22	---	---	---	12.9	12.6	12.8	13.5	13.4	13.4	15.5	15.1	15.2
23	---	---	---	13.0	12.7	12.9	13.5	13.4	13.5	15.8	15.4	15.6
24	---	---	---	13.0	12.8	12.9	13.6	13.4	13.5	15.7	15.4	15.5
25	---	---	---	13.1	12.7	12.9	13.7	13.5	13.6	16.1	15.8	15.9
26	---	---	---	13.2	12.6	12.9	13.9	13.5	13.7	16.3	15.9	16.1
27	---	---	---	13.1	12.8	12.9	13.9	13.5	13.7	16.0	15.9	16.0
28	---	---	---	13.7	12.9	13.3	14.0	13.6	13.8	16.3	16.0	16.1
29	---	---	---	13.5	13.4	13.4	13.9	13.6	13.7	17.4	16.3	16.7
30	---	---	---	13.5	13.3	13.4	14.0	13.7	13.9	17.8	17.2	17.5
31	---	---	---	13.4	13.2	13.3	---	---	---	17.2	17.1	17.2
MONTH	---	---	---	---	---	---	14.0	12.5	13.2	17.8	13.2	14.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	17.4	17.2	17.3	19.7	19.6	19.6	19.8	19.6	19.7	18.4	16.4	17.8
2	17.6	17.4	17.4	19.8	19.6	19.7	20.4	20.0	20.3	18.2	17.5	17.7
3	17.5	17.4	17.5	19.8	19.8	19.8	20.6	20.5	20.6	18.3	17.3	17.6
4	17.7	17.5	17.6	19.9	19.8	19.8	20.8	20.6	20.7	18.3	17.7	18.1
5	17.8	17.6	17.7	20.0	19.9	20.0	20.9	20.7	20.8	18.0	17.8	17.9
6	17.9	17.6	17.8	20.1	20.0	20.1	20.1	19.5	19.8	17.5	17.0	17.2
7	18.0	17.9	17.9	20.1	20.1	20.1	19.6	19.2	19.4	18.0	16.8	17.6
8	18.1	18.0	18.0	---	---	---	19.1	18.9	19.0	18.0	18.0	18.0
9	18.2	18.0	18.1	---	---	---	18.7	18.6	18.7	18.0	17.9	18.0
10	18.0	18.0	18.0	---	---	---	18.5	18.3	18.4	17.8	17.5	17.6
11	18.0	17.9	17.9	20.3	20.2	20.2	---	---	---	18.0	17.9	18.0
12	18.0	17.9	18.0	20.2	20.1	20.1	---	---	---	18.4	17.9	18.1
13	18.1	18.0	18.0	20.2	20.1	20.2	---	---	---	18.3	18.2	18.3
14	18.2	18.0	18.1	20.2	20.1	20.2	18.4	18.3	18.4	18.3	18.2	18.3
15	18.2	18.2	18.2	20.2	20.1	20.2	---	---	---	18.3	17.9	18.0
16	18.3	18.0	18.2	20.2	20.1	20.2	---	---	---	18.1	18.0	18.0
17	18.4	18.2	18.3	20.2	20.1	20.2	---	---	---	18.0	17.8	17.9
18	18.5	18.4	18.4	20.2	20.1	20.2	---	---	---	17.8	17.7	17.7
19	18.5	18.5	18.5	20.2	20.2	20.2	---	---	---	17.7	17.5	17.6
20	18.6	18.5	18.6	20.3	20.2	20.2	---	---	---	17.5	17.2	17.4
21	18.7	18.6	18.6	20.3	19.4	19.8	---	---	---	18.2	18.1	18.2
22	18.7	18.6	18.6	19.9	19.3	19.6	18.1	17.8	18.0	18.2	18.2	18.2
23	18.8	18.7	18.7	20.1	19.9	20.1	18.1	17.4	17.9	18.3	18.2	18.3
24	18.8	18.8	18.8	20.3	20.1	20.2	18.3	18.0	18.2	18.4	18.3	18.3
25	18.9	18.8	18.8	20.4	20.3	20.3	18.2	17.5	17.8	18.4	18.3	18.4
26	19.0	18.9	18.9	20.5	20.4	20.4	17.5	17.2	17.3	18.4	18.3	18.3
27	19.4	18.9	19.1	20.8	20.5	20.6	17.8	17.6	17.7	18.4	18.3	18.3
28	19.5	19.4	19.5	20.8	20.5	20.6	17.6	17.4	17.5	18.3	18.2	18.3
29	19.6	19.5	19.6	20.6	20.6	20.6	18.1	17.1	17.5	18.3	18.2	18.3
30	19.8	19.6	19.7	20.7	20.6	20.6	18.0	17.8	17.9	18.3	18.2	18.3
31	---	---	---	20.7	19.7	20.2	17.8	16.7	17.4	---	---	---
MONTH	19.8	17.2	18.3	---	---	---	---	---	---	18.4	16.4	18.0

CUMBERLAND RIVER BASIN

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

PUMP LEVEL 2
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.8	21.8	21.8	---	---	---	---	---	---	---	---	---
2	21.8	21.6	21.7	---	---	---	---	---	---	---	---	---
3	21.6	21.5	21.6	---	---	---	---	---	---	---	---	---
4	21.6	21.5	21.5	---	---	---	---	---	---	---	---	---
5	21.6	21.5	21.5	---	---	---	---	---	---	---	---	---
6	21.5	21.4	21.4	---	---	---	---	---	---	---	---	---
7	21.3	21.2	21.3	---	---	---	---	---	---	---	---	---
8	21.2	21.1	21.2	---	---	---	---	---	---	---	---	---
9	21.1	21.1	21.1	---	---	---	---	---	---	---	---	---
10	21.0	21.0	21.0	---	---	---	---	---	---	---	---	---
11	21.1	21.0	21.0	---	---	---	---	---	---	---	---	---
12	21.1	21.0	21.0	---	---	---	---	---	---	---	---	---
13	21.2	21.0	21.0	---	---	---	---	---	---	---	---	---
14	21.3	21.0	21.0	---	---	---	---	---	---	---	---	---
15	21.0	20.8	20.9	---	---	---	---	---	---	---	---	---
16	20.8	20.7	20.8	---	---	---	---	---	---	---	---	---
17	20.7	20.6	20.7	---	---	---	---	---	---	---	---	---
18	20.6	20.6	20.6	---	---	---	---	---	---	---	---	---
19	20.6	20.4	20.5	---	---	---	---	---	---	---	---	---
20	20.3	20.1	20.2	---	---	---	---	---	---	---	---	---
21	20.1	19.8	20.0	---	---	---	---	---	---	---	---	---
22	19.8	19.6	19.7	---	---	---	---	---	---	---	---	---
23	19.6	19.3	19.4	---	---	---	---	---	---	---	---	---
24	19.4	18.9	19.2	---	---	---	---	---	---	---	---	---
25	19.4	18.7	18.8	---	---	---	---	---	---	---	---	---
26	19.1	18.6	18.9	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	16.0	13.8	14.6	14.9	14.5	14.6
2	---	---	---	---	---	---	16.2	14.0	14.7	14.9	13.8	14.2
3	---	---	---	---	---	---	14.7	13.9	14.3	14.6	14.0	14.4
4	---	---	---	---	---	---	14.4	13.6	14.1	14.6	14.3	14.5
5	---	---	---	---	---	---	13.7	13.0	13.4	14.7	14.4	14.6
6	---	---	---	---	---	---	14.0	12.6	13.0	14.8	14.4	14.6
7	---	---	---	---	---	---	13.4	12.7	13.0	15.0	14.6	14.7
8	---	---	---	---	---	---	13.4	12.8	13.3	14.9	14.5	14.7
9	---	---	---	---	---	---	14.1	13.2	13.5	15.2	14.7	14.9
10	---	---	---	---	---	---	13.7	13.1	13.4	15.2	14.8	14.9
11	---	---	---	---	---	---	13.4	13.1	13.3	15.2	14.8	15.0
12	---	---	---	---	---	---	13.5	13.1	13.3	14.8	14.2	14.4
13	---	---	---	---	---	---	13.6	13.2	13.3	15.7	14.6	15.1
14	---	---	---	---	---	---	13.5	13.2	13.3	15.3	15.0	15.2
15	---	---	---	---	---	---	13.6	13.2	13.4	15.5	15.0	15.3
16	---	---	---	---	---	---	13.5	13.3	13.4	15.5	15.2	15.3
17	---	---	---	---	---	---	13.7	13.4	13.5	15.6	15.2	15.4
18	---	---	---	---	---	---	14.1	13.5	13.8	15.5	15.1	15.3
19	---	---	---	---	---	---	13.9	13.7	13.8	16.2	15.3	15.6
20	---	---	---	---	---	---	14.3	13.7	13.9	15.6	15.5	15.6
21	---	---	---	13.2	13.2	13.2	14.2	13.6	13.9	15.9	15.4	15.6
22	---	---	---	13.7	13.0	13.4	14.0	13.9	13.9	16.6	15.5	16.0
23	---	---	---	13.9	13.1	13.5	14.1	13.9	14.0	17.0	16.0	16.4
24	---	---	---	13.9	13.0	13.5	14.1	13.8	14.0	17.4	15.8	16.3
25	---	---	---	15.3	13.0	13.9	14.2	14.0	14.1	18.0	16.7	17.2
26	---	---	---	14.1	13.1	13.6	14.4	13.9	14.2	18.6	17.3	17.8
27	---	---	---	13.9	13.4	13.6	14.6	13.9	14.3	18.4	16.8	17.6
28	---	---	---	15.8	13.8	14.7	14.5	14.1	14.4	18.7	17.2	18.0
29	---	---	---	14.9	14.1	14.5	14.6	14.1	14.3	19.2	17.4	18.3
30	---	---	---	14.4	13.8	14.1	14.8	14.3	14.5	19.6	18.8	19.2
31	---	---	---	14.6	13.9	14.3	---	---	---	18.9	18.5	18.7
MONTH	---	---	---	---	---	---	16.2	12.6	13.8	19.6	13.8	15.8

CUMBERLAND RIVER BASIN

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	17.2	15.9	16.5	17.9	15.2	16.3
2	---	---	---	---	---	---	16.7	16.5	16.6	16.5	15.8	16.3
3	---	---	---	---	---	---	16.6	16.2	16.4	18.1	15.8	16.6
4	---	---	---	---	---	---	16.2	13.8	15.0	17.5	15.9	17.0
5	---	---	---	---	---	---	15.4	13.4	14.1	17.2	16.3	16.6
6	---	---	---	---	---	---	15.1	13.4	14.3	17.4	16.6	16.9
7	---	---	---	---	---	---	15.9	13.1	14.6	17.6	16.2	17.0
8	---	---	---	---	---	---	15.8	13.5	14.7	18.0	16.7	17.4
9	---	---	---	---	---	---	15.3	13.8	14.4	18.4	16.9	17.8
10	---	---	---	---	---	---	15.6	13.6	14.4	19.3	16.8	18.1
11	---	---	---	---	---	---	15.2	13.6	14.3	18.7	17.2	17.9
12	---	---	---	---	---	---	14.3	13.7	14.0	21.0	17.7	19.2
13	---	---	---	---	---	---	14.3	14.2	14.3	20.1	17.5	18.7
14	---	---	---	---	---	---	14.3	13.7	14.0	20.1	17.3	19.0
15	---	---	---	---	---	---	14.2	13.9	14.1	21.0	18.4	19.6
16	---	---	---	---	---	---	14.2	14.1	14.2	21.9	18.8	20.6
17	---	---	---	---	---	---	14.5	14.1	14.3	21.8	19.3	20.4
18	---	---	---	---	---	---	15.0	14.4	14.7	21.9	18.5	20.6
19	---	---	---	---	---	---	15.0	14.5	14.8	22.1	17.4	20.8
20	---	---	---	---	---	---	17.0	14.6	15.9	21.4	20.7	21.0
21	---	---	---	14.6	13.5	13.9	16.6	14.1	15.3	21.3	19.5	20.7
22	---	---	---	15.3	13.5	14.0	15.5	14.8	15.2	21.6	20.4	21.1
23	---	---	---	16.6	13.8	15.1	15.4	14.8	15.0	22.1	21.5	21.9
24	---	---	---	17.0	14.6	15.9	15.2	14.6	15.0	22.3	20.2	21.2
25	---	---	---	16.9	15.9	16.4	15.2	14.6	15.0	21.3	20.3	21.0
26	---	---	---	17.1	16.1	16.5	15.2	14.5	15.0	21.2	20.7	21.0
27	---	---	---	16.4	15.8	16.1	16.9	14.8	15.4	22.4	20.3	21.2
28	---	---	---	16.2	15.7	15.9	15.6	14.6	15.2	22.5	20.1	21.3
29	---	---	---	16.3	15.3	15.8	15.4	14.9	15.2	21.5	20.9	21.2
30	---	---	---	17.0	15.4	16.0	16.1	15.3	15.6	21.6	21.2	21.4
31	---	---	---	17.8	15.5	16.4	---	---	---	21.6	20.9	21.3
MONTH	---	---	---	---	---	---	17.2	13.1	14.9	22.5	15.2	19.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	22.0	21.1	21.6	24.1	24.0	24.0	24.1	23.6	23.9	26.1	24.9	25.4
2	21.9	21.3	21.7	24.1	24.0	24.1	24.0	23.8	23.9	26.5	24.9	25.4
3	22.6	21.6	21.9	24.7	23.8	24.2	23.8	23.7	23.8	25.9	24.8	25.0
4	22.3	21.7	22.0	24.8	23.6	24.1	23.7	23.6	23.7	26.3	25.3	26.0
5	23.5	21.7	22.4	24.2	23.9	24.1	23.7	23.5	23.6	25.8	25.1	25.5
6	22.4	21.8	22.1	24.1	24.0	24.0	24.2	23.9	24.0	25.2	24.1	24.4
7	22.2	21.9	22.1	25.3	24.1	24.6	25.4	23.8	24.5	25.2	23.1	24.3
8	23.0	21.5	22.3	---	---	---	25.3	24.9	25.1	25.1	25.0	25.0
9	22.3	22.1	22.2	---	---	---	27.0	26.2	26.7	25.1	24.9	25.0
10	22.4	22.2	22.3	---	---	---	26.8	26.3	26.6	24.9	24.0	24.6
11	22.7	22.3	22.4	25.1	24.9	25.0	---	---	---	25.2	25.1	25.1
12	22.8	22.3	22.6	25.0	24.7	24.9	---	---	---	25.4	25.1	25.2
13	23.2	22.2	22.8	24.9	24.7	24.8	---	---	---	25.2	24.9	25.0
14	24.8	22.5	23.2	24.9	24.6	24.8	---	---	---	24.9	24.8	24.8
15	25.0	22.2	23.4	24.9	24.7	24.8	---	---	---	24.9	24.4	24.6
16	24.6	22.2	23.4	24.9	24.5	24.7	---	---	---	24.3	23.8	24.0
17	24.5	22.7	23.5	24.7	24.5	24.6	---	---	---	23.5	23.0	23.3
18	24.6	22.9	23.8	24.6	24.5	24.6	---	---	---	22.9	22.6	22.7
19	24.7	23.1	23.8	24.6	24.2	24.4	---	---	---	23.2	22.1	22.5
20	24.0	23.2	23.8	24.3	24.1	24.2	---	---	---	22.1	21.8	22.0
21	24.8	22.9	23.9	24.3	24.0	24.1	---	---	---	23.2	22.7	22.9
22	24.0	23.4	23.8	24.4	24.1	24.2	25.7	25.6	25.7	22.7	22.5	22.6
23	24.5	23.9	24.2	24.2	24.1	24.2	25.9	25.3	25.7	23.4	22.5	22.7
24	24.6	23.5	24.2	24.2	24.0	24.1	25.8	25.2	25.5	23.1	22.5	22.6
25	25.1	23.7	24.6	24.0	23.9	24.0	25.4	24.5	25.0	23.1	22.5	22.8
26	25.1	23.5	24.2	24.0	23.9	24.0	24.7	24.4	24.5	22.8	22.3	22.5
27	24.7	24.1	24.5	24.0	23.6	23.8	25.2	24.1	24.8	22.1	21.8	21.9
28	24.2	24.0	24.1	24.1	23.4	23.7	24.6	24.4	24.5	21.6	21.5	21.5
29	24.3	24.1	24.2	24.0	23.8	23.8	25.4	23.9	24.5	21.5	21.4	21.4
30	24.3	24.1	24.2	23.7	23.6	23.7	25.5	25.1	25.3	21.3	21.3	21.3
31	---	---	---	23.7	23.5	23.6	25.3	24.0	24.6	---	---	---
MONTH	25.1	21.1	23.2	---	---	---	---	---	---	26.5	21.3	23.7

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	10.8	10.5	10.6	8.1	7.9	8.0
2	---	---	---	---	---	---	10.7	10.4	10.5	8.4	7.9	8.2
3	---	---	---	---	---	---	10.4	10.0	10.2	8.1	7.8	8.0
4	---	---	---	---	---	---	10.3	9.5	9.9	8.3	8.1	8.2
5	---	---	---	---	---	---	10.8	10.5	10.6	8.3	8.0	8.1
6	---	---	---	---	---	---	11.0	10.9	11.0	8.2	7.6	7.8
7	---	---	---	---	---	---	11.0	10.8	10.9	8.3	7.8	8.0
8	---	---	---	---	---	---	10.9	10.7	10.8	8.7	8.2	8.4
9	---	---	---	---	---	---	9.4	8.3	8.9	8.3	7.8	8.0
10	---	---	---	---	---	---	9.5	9.3	9.4	8.0	6.8	7.5
11	---	---	---	---	---	---	9.2	8.7	9.0	7.2	6.8	7.1
12	---	---	---	---	---	---	8.4	8.1	8.2	8.2	7.8	7.9
13	---	---	---	---	---	---	8.8	8.4	8.6	8.2	7.8	8.1
14	---	---	---	---	---	---	8.8	8.6	8.7	8.3	7.9	8.1
15	---	---	---	---	---	---	9.6	9.1	9.4	8.4	7.8	8.1
16	---	---	---	---	---	---	9.7	9.5	9.6	8.1	7.6	7.8
17	---	---	---	---	---	---	10.0	9.5	9.6	7.4	6.6	7.1
18	---	---	---	---	---	---	9.7	9.4	9.5	7.1	6.1	6.5
19	---	---	---	---	---	---	9.6	8.4	9.0	6.6	5.9	6.2
20	---	---	---	---	---	---	8.4	7.9	8.2	6.5	5.9	6.1
21	---	---	---	8.9	8.7	8.8	8.5	8.1	8.3	5.9	5.4	5.6
22	---	---	---	9.7	8.8	9.4	8.2	8.0	8.1	6.4	5.2	5.7
23	---	---	---	10.3	9.7	10.0	8.3	8.0	8.2	6.3	6.1	6.3
24	---	---	---	10.0	9.1	9.6	8.2	7.8	8.0	6.7	5.4	5.8
25	---	---	---	9.7	9.0	9.5	8.0	7.6	7.8	7.1	6.3	6.7
26	---	---	---	10.7	9.6	10.1	8.3	7.6	8.0	6.5	5.3	6.1
27	---	---	---	10.6	9.2	10.0	8.6	7.8	8.2	5.6	4.9	5.1
28	---	---	---	10.6	9.7	10.2	8.5	8.1	8.2	5.4	4.3	4.8
29	---	---	---	10.4	9.6	9.8	8.3	7.5	8.0	6.0	4.7	5.2
30	---	---	---	10.8	10.3	10.5	7.9	7.5	7.8	6.0	5.2	5.6
31	---	---	---	10.8	10.5	10.7	---	---	---	5.0	4.7	4.8
MONTH	---	---	---	---	---	---	11.0	7.5	9.1	8.7	4.3	6.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	4.7	4.5	4.6	.8	.7	.8	.7	.7	.7	1.1	1.0	1.0
2	4.6	4.0	4.3	.7	.7	.7	.9	.7	.7	1.1	1.1	1.1
3	4.1	3.7	3.9	.7	.7	.7	.8	.7	.8	1.2	1.1	1.2
4	4.1	3.6	3.7	.8	.7	.8	.8	.6	.7	1.3	1.2	1.2
5	3.9	3.3	3.5	.8	.7	.7	.9	.7	.8	1.3	1.2	1.3
6	3.4	3.1	3.3	.7	.7	.7	.9	.8	.8	1.1	.6	.8
7	3.5	3.0	3.2	.7	.7	.7	.8	.7	.8	.7	.6	.6
8	3.2	2.7	2.9	---	---	---	.8	.7	.8	.5	.4	.5
9	2.8	2.4	2.6	---	---	---	.9	.8	.8	.4	.4	.4
10	2.1	1.9	2.0	---	---	---	.8	.8	.8	.5	.4	.5
11	1.7	1.6	1.6	1.0	.9	1.0	---	---	---	.5	.5	.5
12	1.6	1.5	1.6	1.0	.9	.9	---	---	---	.5	.5	.5
13	1.4	1.3	1.4	.9	.9	.9	---	---	---	.6	.4	.5
14	1.2	1.1	1.2	.9	.8	.8	.7	.7	.7	.6	.6	.6
15	1.1	1.0	1.1	.9	.8	.8	---	---	---	.7	.6	.6
16	1.1	.9	1.0	.8	.8	.8	---	---	---	.7	.6	.6
17	1.0	.9	.9	.9	.8	.9	---	---	---	.6	.4	.5
18	.9	.8	.9	.9	.9	.9	---	---	---	.5	.4	.4
19	1.0	.8	.8	.9	.9	.9	---	---	---	.5	.5	.5
20	.8	.7	.7	1.0	.9	1.0	---	---	---	.5	.5	.5
21	.7	.6	.6	1.0	.9	1.0	.8	.6	.7	.6	.5	.6
22	.8	.6	.7	.9	.9	.9	.8	.6	.7	.6	.6	.6
23	.8	.7	.7	.9	.8	.8	.7	.6	.7	.6	.5	.6
24	.7	.7	.7	.8	.6	.7	.7	.6	.6	.6	.5	.6
25	.7	.7	.7	.9	.6	.7	.7	.6	.6	.5	.4	.5
26	.7	.7	.7	---	---	---	.6	.6	.6	.5	.4	.5
27	.7	.7	.7	---	---	---	.7	.7	.7	.5	.5	.5
28	.8	.7	.8	.8	.7	.8	.8	.7	.8	.5	.4	.5
29	.8	.8	.8	.8	.8	.8	.9	.8	.8	.6	.6	.6
30	.8	.8	.8	.7	.7	.7	.9	.9	.9	.6	.6	.6
31	---	---	---	.7	.6	.6	1.0	.9	1.0	---	---	---
MONTH	4.7	.6	1.7	---	---	---	---	---	---	1.3	.4	.6

CUMBERLAND RIVER BASIN

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

PUMP LEVEL 2
 OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	6.9	5.0	6.0	---	---	---	---	---	---	---	---	---
2	7.1	4.6	5.7	---	---	---	---	---	---	---	---	---
3	5.6	4.7	5.2	---	---	---	---	---	---	---	---	---
4	8.2	4.9	5.8	---	---	---	---	---	---	---	---	---
5	7.9	5.1	6.6	---	---	---	---	---	---	---	---	---
6	7.0	5.6	6.7	---	---	---	---	---	---	---	---	---
7	7.6	6.9	7.2	---	---	---	---	---	---	---	---	---
8	6.9	6.5	6.8	---	---	---	---	---	---	---	---	---
9	6.7	6.4	6.6	---	---	---	---	---	---	---	---	---
10	6.4	6.3	6.4	---	---	---	---	---	---	---	---	---
11	6.3	5.9	6.1	---	---	---	---	---	---	---	---	---
12	7.6	6.1	7.0	---	---	---	---	---	---	---	---	---
13	7.8	5.1	6.5	---	---	---	---	---	---	---	---	---
14	5.7	5.1	5.4	---	---	---	---	---	---	---	---	---
15	6.5	5.2	6.1	---	---	---	---	---	---	---	---	---
16	6.6	6.4	6.5	---	---	---	---	---	---	---	---	---
17	6.4	6.1	6.2	---	---	---	---	---	---	---	---	---
18	6.3	5.7	5.9	---	---	---	---	---	---	---	---	---
19	6.6	6.1	6.3	---	---	---	---	---	---	---	---	---
20	6.8	6.4	6.6	---	---	---	---	---	---	---	---	---
21	7.1	6.6	6.8	---	---	---	---	---	---	---	---	---
22	7.6	7.0	7.2	---	---	---	---	---	---	---	---	---
23	7.6	7.2	7.4	---	---	---	---	---	---	---	---	---
24	7.8	7.6	7.7	---	---	---	---	---	---	---	---	---
25	8.2	7.9	8.0	---	---	---	---	---	---	---	---	---
26	8.3	7.8	8.1	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	10.3	10.0	10.2	8.8	8.5	8.6
2	---	---	---	---	---	---	10.2	9.8	10.0	9.1	8.7	8.9
3	---	---	---	---	---	---	9.9	9.6	9.8	8.9	8.6	8.8
4	---	---	---	---	---	---	10.4	9.5	9.8	9.0	8.7	8.8
5	---	---	---	---	---	---	10.8	10.4	10.6	9.2	8.7	8.9
6	---	---	---	---	---	---	11.0	10.6	10.9	9.1	8.5	8.8
7	---	---	---	---	---	---	10.9	10.6	10.8	9.5	8.6	9.0
8	---	---	---	---	---	---	10.8	10.5	10.6	9.0	8.5	8.8
9	---	---	---	---	---	---	9.3	8.2	8.9	9.1	8.3	8.6
10	---	---	---	---	---	---	9.5	9.2	9.3	8.9	7.6	8.4
11	---	---	---	---	---	---	9.0	8.6	8.9	8.3	7.7	8.0
12	---	---	---	---	---	---	8.2	8.2	8.2	9.3	8.5	8.7
13	---	---	---	---	---	---	8.6	8.4	8.5	9.3	8.6	8.8
14	---	---	---	---	---	---	8.7	8.6	8.6	8.7	8.4	8.6
15	---	---	---	---	---	---	9.5	9.0	9.2	8.9	8.5	8.6
16	---	---	---	---	---	---	9.5	9.4	9.4	8.6	8.1	8.4
17	---	---	---	---	---	---	9.7	9.3	9.4	8.0	7.6	7.8
18	---	---	---	---	---	---	9.4	9.2	9.3	7.7	7.0	7.3
19	---	---	---	---	---	---	9.4	8.6	8.9	7.8	6.9	7.3
20	---	---	---	---	---	---	8.8	8.4	8.6	7.3	6.9	7.1
21	---	---	---	9.1	9.0	9.0	9.0	8.4	8.7	7.0	6.6	6.8
22	---	---	---	9.9	9.3	9.6	8.9	8.6	8.7	7.8	6.5	7.0
23	---	---	---	10.3	9.7	9.9	8.9	8.5	8.7	8.5	7.4	7.8
24	---	---	---	9.9	9.1	9.6	8.8	8.4	8.6	9.3	6.5	7.4
25	---	---	---	9.7	8.9	9.4	8.7	8.2	8.4	9.2	8.1	8.6
26	---	---	---	10.3	9.5	9.9	8.8	8.3	8.5	9.0	7.4	8.2
27	---	---	---	10.3	9.4	10.0	9.0	8.4	8.7	7.6	6.2	7.3
28	---	---	---	10.5	9.6	10.1	9.0	8.6	8.8	7.6	6.5	7.1
29	---	---	---	10.1	9.6	9.8	8.8	8.2	8.6	7.0	6.1	6.8
30	---	---	---	10.4	10.1	10.2	8.5	8.2	8.4	7.0	6.5	6.8
31	---	---	---	10.3	10.1	10.2	---	---	---	6.5	6.3	6.4
MONTH	---	---	---	---	---	---	11.0	8.2	9.2	9.5	6.1	8.0

CUMBERLAND RIVER BASIN

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	7.0	6.8	6.9	7.1	6.3	6.7	7.2	6.7	7.0
2	---	---	---	7.1	6.8	7.0	6.7	6.1	6.4	6.6	6.4	6.5
3	---	---	---	7.4	7.1	7.3	7.4	6.6	7.1	7.0	6.6	6.8
4	---	---	---	7.5	7.3	7.4	7.1	6.7	6.9	7.4	6.7	7.0
5	---	---	---	7.5	7.3	7.4	7.2	6.3	6.8	7.3	7.1	7.2
6	---	---	---	7.7	7.2	7.4	7.2	6.5	7.0	8.4	7.3	7.8
7	---	---	---	7.6	7.4	7.5	7.6	7.2	7.4	8.2	6.8	7.4
8	---	---	---	---	---	---	7.6	7.4	7.5	7.5	7.1	7.2
9	---	---	---	---	---	---	7.6	7.4	7.5	7.4	7.0	7.1
10	---	---	---	---	---	---	7.8	7.5	7.6	7.4	7.0	7.2
11	---	---	---	7.8	7.3	7.6	---	---	---	7.5	7.0	7.2
12	7.3	7.1	7.2	7.9	7.4	7.6	---	---	---	7.8	7.4	7.6
13	6.9	6.6	6.8	8.0	7.6	7.8	---	---	---	7.8	7.4	7.6
14	6.7	6.4	6.6	7.7	7.3	7.6	7.9	7.4	7.6	7.7	6.8	7.4
15	6.8	6.5	6.6	8.0	7.5	7.7	---	---	---	7.1	6.4	6.9
16	6.4	6.2	6.3	7.8	7.5	7.6	---	---	---	7.1	5.5	6.4
17	6.4	6.2	6.3	7.9	7.5	7.7	---	---	---	6.2	5.3	5.7
18	6.3	5.8	6.1	7.8	7.5	7.6	---	---	---	6.4	5.5	6.0
19	5.9	5.6	5.8	7.6	7.3	7.4	---	---	---	6.5	5.3	5.9
20	6.2	5.8	6.0	7.4	6.7	7.0	---	---	---	6.6	5.1	5.8
21	6.4	5.9	6.1	6.9	6.5	6.8	---	---	---	6.7	5.3	6.2
22	6.3	6.0	6.2	7.5	6.8	7.2	7.2	6.8	7.0	7.2	5.9	6.7
23	6.4	6.2	6.3	7.4	7.1	7.2	7.1	6.9	7.0	7.4	6.4	7.0
24	6.3	6.2	6.2	7.1	6.5	6.8	6.9	6.5	6.7	7.6	7.0	7.3
25	6.4	6.0	6.2	7.3	6.6	6.8	7.1	6.4	6.7	7.4	6.9	7.2
26	6.3	6.2	6.2	7.4	6.9	7.1	7.2	6.7	7.0	7.0	6.0	6.5
27	6.6	6.2	6.4	7.0	6.8	6.8	7.3	6.8	7.1	6.5	5.6	5.9
28	6.6	6.3	6.5	6.8	6.6	6.8	7.3	6.8	7.0	7.2	6.1	6.6
29	6.8	6.5	6.7	6.5	6.4	6.5	7.0	6.7	6.9	7.8	7.1	7.5
30	6.9	6.7	6.8	6.9	6.2	6.5	7.2	6.6	6.8	7.7	7.1	7.5
31	---	---	---	7.0	6.7	6.8	7.4	6.9	7.1	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	8.4	5.1	6.9



CUMBERLAND RIVER BASIN

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 mi².

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. Flow regulated by Martins Fork Dam (station 03400798) beginning January 1979.

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

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

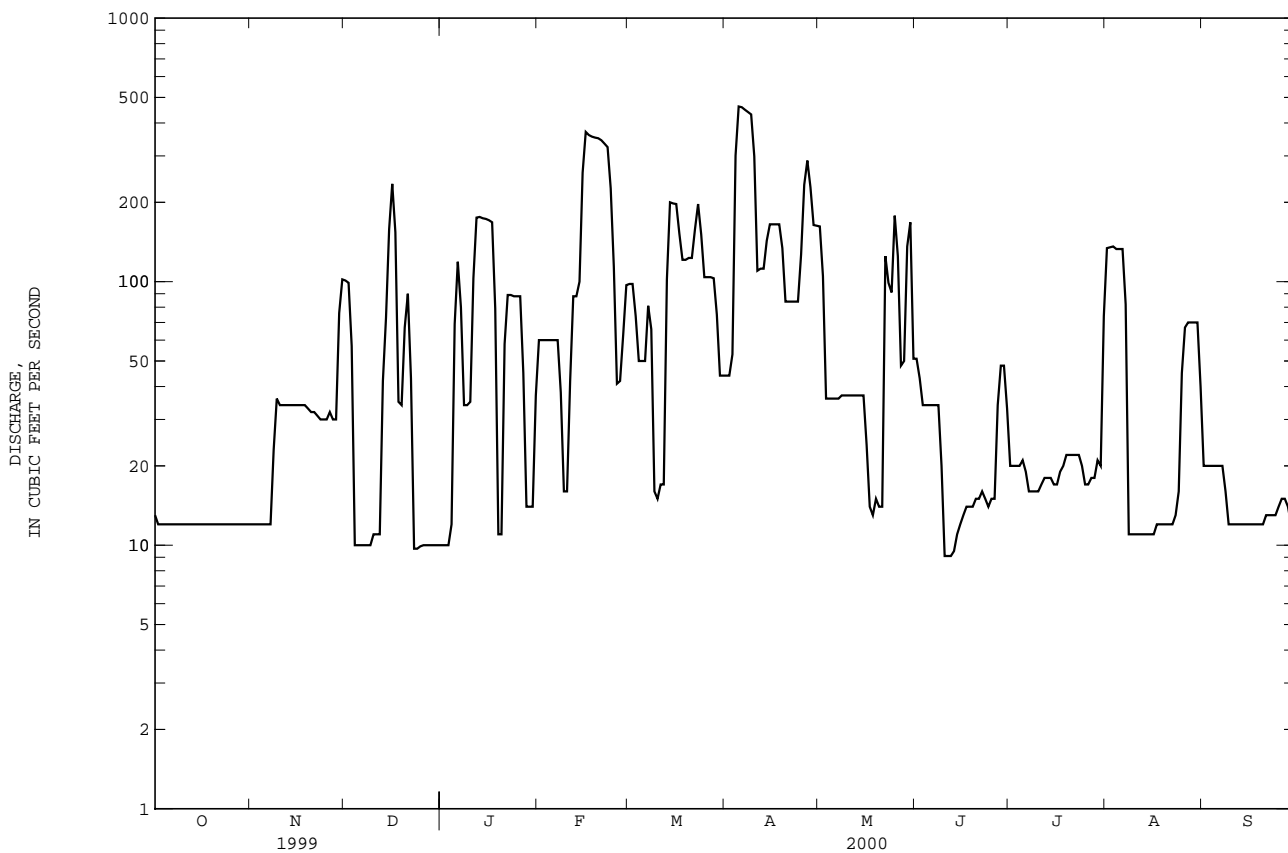
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	101	10	60	98	44	162	51	20	134	20
2	12	12	99	10	60	98	44	105	43	20	135	20
3	12	12	57	10	60	74	53	36	34	20	136	20
4	12	12	10	12	60	50	301	36	34	20	133	20
5	12	12	10	69	60	50	462	36	34	21	133	20
6	12	12	10	119	60	50	459	36	34	19	133	20
7	12	12	10	80	60	81	449	36	34	16	82	20
8	12	23	10	34	38	66	440	37	34	16	11	16
9	12	36	10	34	16	16	431	37	20	16	11	12
10	12	34	11	35	16	15	299	37	9.1	16	11	12
11	12	34	11	103	42	17	110	37	9.1	17	11	12
12	12	34	11	175	88	17	112	37	9.1	18	11	12
13	12	34	42	176	88	102	112	37	9.5	18	11	12
14	12	34	73	174	100	200	143	37	11	18	11	12
15	12	34	158	173	259	198	165	37	12	17	11	12
16	12	34	235	171	370	197	165	24	13	17	11	12
17	12	34	154	168	360	152	165	14	14	19	12	12
18	12	34	35	79	355	121	165	13	14	20	12	12
19	12	33	34	11	352	121	134	15	14	22	12	12
20	12	32	67	11	350	123	84	14	15	22	12	12
21	12	32	90	58	344	123	84	14	15	22	12	13
22	12	31	43	89	334	158	84	125	16	22	12	13
23	12	30	9.7	89	324	197	84	99	15	22	13	13
24	12	30	9.7	88	226	151	84	91	14	20	16	13
25	12	30	9.9	88	114	104	127	178	15	17	45	14
26	12	32	10	88	41	104	233	125	15	17	67	15
27	12	30	10	45	42	104	288	48	34	18	70	15
28	12	30	10	14	63	103	228	50	48	18	70	14
29	12	76	10	14	97	75	164	136	48	21	70	12
30	12	102	10	14	---	44	163	168	33	20	70	12
31	12	---	10	37	---	44	---	51	---	74	40	---
TOTAL	373	937	1370.3	2278	4439	3053	5876	1908	700.8	643	1518	434
MEAN	12.0	31.2	44.2	73.5	153	98.5	196	61.5	23.4	20.7	49.0	14.5
MAX	13	102	235	176	370	200	462	178	51	74	136	20
MIN	12	12	9.7	10	16	15	44	13	9.1	16	11	12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2000, BY WATER YEAR (WY)

MEAN	51.2	102	145	177	203	195	129	127	65.5	24.9	29.4	25.1
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1980 - 2000	
ANNUAL TOTAL	23379.3		23530.1		106	
ANNUAL MEAN	64.1		64.3		173	
HIGHEST ANNUAL MEAN					58.0 1994	
LOWEST ANNUAL MEAN					1510 1988	
HIGHEST DAILY MEAN	396	Mar 6	462	Apr 5	1510 Apr 20 1998	
LOWEST DAILY MEAN	9.7	Dec 23	9.1	Jun 10	5.4 Aug 31 1996	
ANNUAL SEVEN-DAY MINIMUM	9.9	Dec 23	9.9	Dec 23	6.7 Jul 16 1980	
INSTANTANEOUS PEAK FLOW			464	Apr 5	9000 Apr 4 1977	
INSTANTANEOUS PEAK STAGE			10.72	Apr 5	24.24 Apr 4 1977	
INSTANTANEOUS LOW FLOW					.10 Oct 30 1978	
10 PERCENT EXCEEDS	220		165		292	
50 PERCENT EXCEEDS	19		33		47	
90 PERCENT EXCEEDS	12		11		11	



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, 177 microsiemens, Sep. 29; minimum recorded, 81 microsiemens, Apr. 4. pH.--Maximum recorded, 7.4 units, Oct. 25, Mar. 1, 5, 6; minimum recorded, 6.6 units, Jan. 15, 20, 21, Feb. 9, 12, 13, 25, Apr. 24-26, and July 8-10.

WATER TEMPERATURES.--Maximum recorded, 28.2°C, Aug. 9; minimum recorded, 3.7°C, Jan. 28.

DISSOLVED OXYGEN.--Maximum recorded, 13.9 mg/L, Jan. 27, 28; minimum recorded, 5.7 mg/L, July 10.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	165	162	163	152	150	151	151	141	148	150	150	150
2	164	162	163	151	149	150	151	151	151	151	150	150
3	165	161	163	150	148	149	151	147	150	151	150	150
4	164	159	161	150	148	149	147	144	145	162	147	152
5	161	157	160	150	149	150	153	142	145	147	142	145
6	161	159	160	150	149	150	154	153	153	150	140	143
7	161	157	159	156	147	149	154	153	154	150	147	149
8	160	158	159	156	153	155	154	152	153	148	145	147
9	160	156	159	153	152	153	153	152	153	152	143	147
10	160	158	159	154	152	153	153	146	152	151	142	146
11	160	157	158	153	149	152	152	150	151	148	140	143
12	160	155	158	154	144	148	152	151	151	144	137	140
13	159	156	158	154	153	154	152	145	150	142	138	140
14	162	156	160	154	150	152	150	141	145	139	137	138
15	160	156	158	156	146	151	151	149	150	139	138	139
16	157	154	156	156	154	155	149	146	148	146	139	143
17	158	154	156	155	152	154	147	145	146	151	141	142
18	158	155	156	153	150	152	145	142	143	152	148	150
19	156	153	154	150	146	148	152	142	148	151	151	151
20	155	153	154	156	145	153	152	149	150	---	---	---
21	155	153	154	157	153	155	150	149	149	---	---	---
22	155	152	154	153	150	151	149	147	148	---	---	---
23	154	151	153	150	148	148	149	148	148	---	---	---
24	153	151	152	158	144	148	159	148	149	157	154	155
25	153	150	152	159	157	158	148	147	148	154	145	149
26	154	151	153	160	158	159	148	147	148	146	140	143
27	155	152	154	162	153	158	147	145	147	154	139	147
28	154	152	153	171	155	158	146	144	145	154	151	153
29	152	152	152	173	145	155	144	142	143	174	153	161
30	154	152	153	145	141	143	142	141	142	170	160	163
31	154	152	153	---	---	---	150	140	144	160	143	152
MONTH	165	150	157	173	141	152	159	140	148	---	---	---

CUMBERLAND RIVER BASIN

03400800 MARTINS FORK NEAR SMITH, KY--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	162	140	147	140	117	131	130	124	127	107	97	101
2	163	160	161	138	130	134	135	122	128	108	97	102
3	161	148	158	135	123	128	134	124	131	103	95	98
4	148	138	145	136	127	132	137	81	113	103	97	100
5	154	136	144	131	123	127	98	82	87	103	100	102
6	153	149	151	133	120	127	107	97	103	104	100	103
7	156	149	154	132	123	128	114	106	110	104	101	102
8	155	147	149	130	118	123	114	110	112	102	99	100
9	162	155	160	132	129	131	114	107	111	108	98	101
10	158	149	152	131	130	131	112	107	109	108	106	107
11	151	138	144	131	128	130	110	101	105	110	106	107
12	151	135	143	130	128	129	111	101	105	109	109	109
13	143	130	135	128	124	126	103	100	101	109	108	109
14	137	118	124	124	112	118	100	96	98	109	108	109
15	145	120	130	120	113	116	107	97	105	108	107	108
16	135	104	118	116	113	115	107	103	104	107	106	107
17	142	116	126	115	111	114	104	101	103	115	106	110
18	127	109	116	119	109	114	107	102	105	116	115	115
19	119	109	117	122	116	120	105	103	104	118	111	116
20	128	119	124	123	113	117	104	101	102	117	115	116
21	130	120	125	123	113	118	106	98	101	118	116	117
22	130	117	122	127	114	119	107	105	106	118	117	118
23	128	119	124	131	124	127	107	105	106	121	117	119
24	139	108	126	140	123	128	106	104	105	126	117	121
25	137	108	123	140	129	133	106	104	105	120	118	119
26	146	128	140	137	124	133	106	97	102	124	120	123
27	143	134	141	134	129	132	106	93	101	123	121	122
28	141	137	140	134	123	130	107	95	100	124	123	124
29	139	119	131	132	131	132	106	91	97	126	123	124
30	---	---	---	134	131	133	106	95	98	126	120	122
31	---	---	---	131	130	131	---	---	---	121	119	120
MONTH	163	104	137	140	109	126	137	81	106	126	95	111
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	120	118	119	137	135	136	149	143	146	166	162	164
2	119	117	118	138	136	137	152	147	150	166	157	162
3	118	112	114	138	136	137	153	148	151	168	160	165
4	115	112	114	137	135	136	153	147	151	169	165	167
5	116	111	113	137	135	136	152	148	150	169	161	164
6	115	110	113	137	136	137	152	147	150	165	160	163
7	115	114	114	137	136	136	155	147	151	165	162	163
8	115	113	114	136	135	136	158	151	154	166	163	165
9	118	115	116	136	134	135	158	142	153	167	166	167
10	120	118	119	136	134	135	156	150	154	169	166	167
11	121	119	120	136	134	135	156	151	154	170	167	168
12	121	120	120	139	135	136	157	154	155	170	167	169
13	122	121	121	139	133	138	157	154	155	171	168	170
14	123	120	122	140	137	139	156	154	155	172	168	170
15	123	122	123	142	140	141	157	155	156	173	170	171
16	123	122	123	142	140	141	157	155	156	171	164	168
17	123	122	123	142	140	141	158	152	156	172	170	171
18	123	121	122	141	140	141	158	155	157	172	170	171
19	122	117	121	141	139	141	158	157	158	173	170	172
20	125	117	123	142	141	142	159	157	158	170	166	168
21	127	124	125	143	137	142	158	154	157	173	161	169
22	128	122	127	144	139	143	160	154	157	171	168	170
23	130	128	128	143	142	143	161	156	159	172	166	168
24	131	129	130	144	137	142	166	152	161	172	168	170
25	132	129	131	144	136	142	163	159	161	172	167	171
26	133	131	132	144	142	143	162	160	161	173	171	172
27	133	127	131	144	142	143	166	160	163	175	169	172
28	131	127	129	144	141	143	167	165	166	176	172	174
29	132	129	130	145	122	142	166	163	164	177	173	175
30	135	130	133	151	132	148	166	161	164	174	172	173
31	---	---	---	147	144	146	167	159	164	---	---	---
MONTH	135	110	122	151	122	140	167	142	156	177	157	169

CUMBERLAND RIVER BASIN

03400800 MARTINS FORK NEAR SMITH, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.0	6.8	7.0	6.9	7.1	7.0	6.9	6.8	6.8	6.7	7.4	7.0
2	7.1	7.0	6.9	6.9	7.2	7.1	6.9	6.8	6.8	6.7	7.2	7.1
3	7.1	7.0	7.1	7.0	7.2	7.1	6.9	6.8	6.8	6.7	7.3	7.1
4	7.1	7.0	7.2	7.1	7.2	7.0	6.8	6.7	6.8	6.7	7.2	7.0
5	7.0	6.9	7.2	7.1	7.0	6.9	6.8	6.7	6.8	6.7	7.4	7.1
6	7.0	6.9	7.2	7.0	7.0	6.9	6.8	6.7	6.8	6.7	7.4	7.0
7	7.1	7.0	7.2	7.0	7.0	6.9	6.9	6.8	6.8	6.7	7.2	6.9
8	7.0	6.9	7.1	7.0	7.0	6.9	6.9	6.7	6.8	6.7	7.3	7.0
9	7.0	6.9	7.1	7.0	7.1	7.0	6.8	6.7	6.8	6.6	7.2	7.0
10	---	---	7.2	7.0	7.1	7.0	6.9	6.8	6.8	6.7	7.2	7.0
11	7.0	6.9	7.2	7.0	6.9	6.9	6.9	6.8	6.8	6.7	7.1	7.1
12	7.0	6.9	7.2	7.0	6.9	6.9	6.8	6.8	6.7	6.6	7.2	7.0
13	6.8	6.8	7.1	7.0	6.9	6.9	6.8	6.7	6.6	6.6	7.1	6.9
14	6.7	6.7	7.2	7.0	7.0	6.9	6.8	6.7	6.8	6.7	7.2	7.0
15	6.8	6.7	7.2	7.0	7.0	6.9	6.7	6.6	6.8	6.8	7.3	7.0
16	7.0	6.9	7.2	7.0	6.9	6.8	6.8	6.7	6.8	6.7	7.2	7.0
17	7.0	6.9	7.2	7.1	6.8	6.7	6.7	6.7	6.8	6.7	7.2	7.1
18	6.8	6.8	7.2	7.1	6.9	6.8	6.7	6.7	6.8	6.7	7.3	7.2
19	6.9	6.8	7.2	7.1	6.9	6.8	6.7	6.7	6.8	6.7	7.3	7.2
20	6.9	6.8	7.2	7.1	7.0	6.9	6.6	6.6	6.9	6.8	7.3	7.2
21	6.9	6.8	7.2	7.1	6.9	6.9	6.6	6.6	6.9	6.8	7.3	7.2
22	7.0	6.9	7.1	7.0	6.9	6.8	---	---	6.9	6.7	7.3	7.2
23	7.2	7.1	7.1	7.0	6.9	6.8	---	---	6.9	6.8	7.3	7.2
24	7.2	7.1	6.9	6.9	6.9	6.9	6.7	6.7	7.0	6.8	7.3	7.2
25	7.4	7.2	---	---	6.9	6.8	6.7	6.7	7.0	6.6	7.3	7.1
26	7.3	7.2	7.0	6.9	6.9	6.8	6.7	6.7	7.0	6.8	7.3	7.2
27	7.3	7.2	7.0	6.9	6.9	6.8	6.7	6.7	7.0	6.9	7.2	7.1
28	7.1	7.0	7.0	6.9	7.0	6.9	6.8	6.7	7.1	6.9	7.2	6.8
29	7.1	7.0	7.0	6.9	7.0	6.9	6.8	6.7	7.2	7.0	7.2	6.9
30	7.1	7.0	7.0	6.9	7.0	6.8	6.8	6.7	---	---	7.2	6.8
31	7.1	7.0	---	---	6.9	6.8	6.8	6.8	---	---	7.2	6.8
MONTH	---	---	---	---	7.2	6.7	---	---	7.2	6.6	7.4	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	6.9	6.7	7.1	6.9	6.9	6.9	7.1	7.0	7.0	6.7
2	7.2	7.2	7.0	6.7	7.1	6.8	7.0	6.7	7.1	7.0	6.8	6.7
3	7.1	6.9	7.0	6.7	7.1	6.9	7.0	6.9	7.1	7.0	6.8	6.7
4	7.1	6.8	6.9	6.8	7.1	6.9	7.0	6.8	7.2	7.0	6.8	6.7
5	7.0	6.9	7.0	6.8	7.1	6.8	7.0	6.8	7.2	7.1	6.9	6.7
6	7.2	7.0	6.9	6.7	7.1	6.8	6.9	6.8	7.2	7.1	6.9	6.8
7	7.2	6.8	6.9	6.8	7.1	6.9	6.9	6.9	7.2	7.1	6.9	6.8
8	7.0	6.7	6.9	6.8	7.1	7.1	6.9	6.6	7.3	7.1	6.9	6.7
9	7.0	6.9	7.0	6.9	7.1	6.9	6.8	6.6	7.1	7.0	6.9	6.7
10	7.0	6.9	7.0	6.8	7.2	6.9	7.0	6.6	7.1	6.9	7.0	6.7
11	7.0	6.7	7.0	6.8	7.1	6.9	7.0	6.9	7.1	6.9	7.0	6.9
12	7.0	6.7	7.0	6.8	7.1	6.9	7.0	6.9	7.2	6.9	7.0	6.8
13	7.0	6.7	7.0	6.8	7.3	6.9	7.1	6.9	7.2	7.0	7.0	6.9
14	7.0	6.8	7.0	6.8	7.2	7.0	7.2	6.9	7.2	7.0	7.0	6.8
15	7.0	6.8	7.0	6.8	7.2	6.9	7.2	7.0	7.2	6.9	7.0	6.8
16	7.0	6.8	7.1	6.8	7.1	6.9	7.2	7.0	7.2	6.9	7.0	6.9
17	7.0	6.8	7.0	6.8	7.1	6.9	7.1	7.1	7.2	6.9	7.1	6.8
18	7.0	6.8	7.1	6.8	7.1	7.0	7.1	7.0	7.2	6.9	7.1	7.0
19	7.0	6.9	7.1	6.8	7.1	6.9	7.1	7.0	7.2	7.0	7.1	6.9
20	7.0	6.7	7.0	6.7	7.1	6.8	7.1	7.0	7.2	7.1	7.2	6.8
21	7.0	6.8	7.1	6.8	7.1	6.7	7.1	7.0	7.1	7.0	7.2	6.9
22	6.9	6.8	7.1	6.7	7.1	6.8	7.1	6.9	7.1	6.9	7.1	6.9
23	6.9	6.8	7.0	6.8	7.1	6.7	7.0	6.9	7.1	6.9	7.1	6.9
24	6.9	6.6	7.1	6.7	7.1	6.9	7.0	6.8	7.1	6.9	7.1	6.9
25	6.8	6.6	7.1	6.7	7.1	6.9	7.0	6.8	7.0	6.8	7.2	6.9
26	6.9	6.6	7.1	6.7	7.1	6.8	7.1	6.9	7.0	6.9	7.2	7.0
27	7.0	6.9	7.1	6.8	7.0	6.8	7.1	6.9	7.1	6.9	7.2	7.0
28	7.0	6.9	7.1	6.8	6.9	6.8	7.1	6.9	7.0	6.9	7.2	7.0
29	6.9	6.7	7.1	6.8	6.9	6.8	7.1	6.9	7.0	6.9	7.2	7.0
30	7.0	6.7	7.1	6.9	6.9	6.8	7.1	6.9	7.0	6.9	7.2	7.0
31	---	---	7.1	6.9	---	---	7.1	6.9	7.0	6.8	---	---
MONTH	7.2	6.6	7.1	6.7	7.3	6.7	7.2	6.6	7.3	6.8	7.2	6.7

03400800 MARTINS FORK NEAR SMITH, KY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
													OCTOBER
1	23.9	21.0	22.1	17.4	15.4	16.2	11.6	11.0	11.3	7.8	6.2	6.8	
2	24.0	21.1	22.3	16.8	14.5	15.7	11.2	10.8	11.0	9.3	6.5	7.6	
3	24.0	21.3	22.4	15.9	14.2	14.8	11.4	10.5	10.8	9.1	7.8	8.5	
4	23.2	21.8	22.3	16.1	13.9	14.7	11.9	10.3	10.8	9.5	7.9	8.8	
5	22.8	21.0	21.7	16.1	13.6	14.5	11.8	9.9	10.7	7.9	7.5	7.7	
6	23.2	20.7	21.6	16.1	13.7	14.6	11.0	9.5	10.4	7.6	7.3	7.5	
7	23.3	20.6	21.6	15.9	14.0	14.7	10.6	8.9	9.6	8.0	7.2	7.5	
8	23.4	20.7	21.9	15.6	13.8	14.4	11.0	9.2	9.9	8.0	7.2	7.5	
9	21.9	21.5	21.7	15.3	14.0	14.4	10.6	9.4	10.0	7.7	7.4	7.5	
10	22.1	21.8	22.0	15.3	13.9	14.6	10.9	9.8	10.4	8.4	7.7	7.9	
11	23.0	21.3	22.0	15.4	14.3	14.7	10.8	9.4	9.9	8.1	7.1	7.5	
12	23.7	21.0	22.0	15.6	14.2	14.7	10.7	9.3	9.9	7.5	6.9	7.2	
13	21.7	21.0	21.4	15.4	14.2	14.7	10.4	10.1	10.2	7.8	7.4	7.7	
14	22.5	20.3	21.3	15.6	14.3	14.9	10.5	10.0	10.3	7.4	6.9	7.1	
15	21.8	19.5	20.6	15.2	14.1	14.5	10.1	9.4	9.8	7.0	6.5	6.8	
16	21.8	19.0	20.1	14.9	13.7	14.2	9.4	9.0	9.2	6.7	6.6	6.7	
17	21.6	19.3	20.0	14.3	13.1	13.7	9.7	8.8	9.2	6.7	6.3	6.5	
18	20.5	18.6	19.4	13.9	12.8	13.2	9.8	9.1	9.4	7.2	6.4	6.7	
19	19.5	18.5	18.8	14.0	12.6	13.2	9.9	9.2	9.4	7.7	5.9	6.9	
20	19.6	18.0	18.8	13.8	12.9	13.3	9.7	9.3	9.4	6.6	5.7	6.3	
21	19.8	17.6	18.4	13.7	12.8	13.0	9.6	8.9	9.2	5.8	4.9	5.4	
22	19.4	17.1	18.0	13.7	12.5	13.0	9.7	8.1	8.9	5.4	4.8	5.2	
23	17.5	16.7	17.2	13.7	12.5	13.0	9.3	7.7	8.4	5.0	4.6	4.8	
24	17.9	15.6	16.7	13.3	12.8	13.0	8.4	7.5	8.1	5.2	4.8	5.1	
25	17.7	15.3	16.1	13.2	13.0	13.1	8.1	6.6	7.2	5.1	4.5	4.8	
26	17.7	15.2	16.1	13.4	12.7	13.1	8.2	6.4	7.1	4.8	4.2	4.5	
27	17.6	15.2	16.1	13.4	12.5	12.8	8.0	6.5	7.1	5.4	3.9	4.4	
28	17.5	14.8	15.8	13.7	12.6	13.0	6.9	6.5	6.7	5.5	3.7	4.5	
29	17.5	15.0	15.9	12.9	12.3	12.6	7.8	6.4	6.9	5.4	4.5	5.0	
30	17.6	15.1	16.0	12.3	11.6	12.0	7.5	6.0	6.6	5.7	4.9	5.2	
31	17.7	15.2	16.1	---	---	---	7.8	6.1	6.7	5.1	4.3	4.7	
MONTH	24.0	14.8	19.6	17.4	11.6	13.9	11.9	6.0	9.2	9.5	3.7	6.5	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
		FEBRUARY			MARCH			APRIL			MAY		
1	4.9	4.1	4.5	12.8	9.8	11.1	15.3	13.3	14.1	14.8	13.3	13.9	
2	5.5	4.8	5.0	11.5	10.2	10.8	14.7	13.9	14.3	15.8	13.8	14.6	
3	5.7	4.8	5.2	12.0	10.4	11.1	15.0	14.1	14.5	16.9	14.4	15.3	
4	5.3	4.9	5.0	11.5	10.2	10.7	14.3	13.1	13.8	15.9	14.6	15.2	
5	5.4	4.8	5.0	12.4	10.4	11.2	13.4	12.5	13.0	17.1	14.7	15.6	
6	5.6	4.7	5.1	12.6	10.6	11.4	13.7	12.2	12.8	17.4	15.0	15.8	
7	5.9	5.1	5.4	12.1	10.7	11.4	13.7	12.1	12.7	17.3	15.1	15.9	
8	6.8	5.1	5.7	13.6	11.0	12.0	13.5	12.3	12.9	17.2	15.1	15.9	
9	7.3	5.2	6.0	13.5	11.4	12.1	14.0	12.6	13.1	17.5	15.1	16.0	
10	7.3	5.5	6.2	14.0	11.1	12.2	13.8	12.7	13.2	17.3	15.2	16.1	
11	7.0	6.1	6.4	12.5	11.4	12.1	13.7	13.1	13.4	17.7	15.0	16.0	
12	6.4	6.1	6.3	11.7	10.7	11.1	13.7	13.1	13.4	17.8	15.4	16.4	
13	7.2	6.3	6.7	12.7	10.6	11.2	13.3	12.9	13.1	17.2	15.6	16.3	
14	7.6	7.2	7.4	11.7	10.8	11.2	13.4	12.7	13.0	17.7	15.2	16.1	
15	7.4	6.9	7.2	13.4	10.6	11.5	13.2	12.6	12.9	17.7	14.9	16.0	
16	8.8	6.9	7.9	11.5	10.8	11.2	13.4	12.7	13.0	19.5	15.1	16.7	
17	7.8	6.9	7.4	12.0	10.9	11.2	13.4	12.7	12.9	18.8	15.4	16.7	
18	8.7	7.5	8.0	12.4	11.3	11.9	13.4	12.8	13.1	21.0	15.8	17.8	
19	8.7	8.1	8.4	13.0	11.4	12.1	14.1	12.9	13.3	20.2	16.4	17.7	
20	8.1	7.9	8.0	13.2	11.5	12.3	14.3	13.1	13.7	18.0	16.5	17.1	
21	8.6	7.7	8.1	13.0	11.9	12.4	13.8	13.2	13.5	18.9	16.3	17.4	
22	8.7	8.1	8.3	13.5	11.8	12.5	13.4	13.2	13.3	17.8	15.8	16.4	
23	9.0	8.1	8.5	13.3	11.8	12.5	14.5	13.2	13.7	18.7	15.9	17.3	
24	9.6	7.9	8.7	13.8	12.0	12.8	13.7	13.3	13.5	18.0	16.2	16.8	
25	10.7	8.8	9.6	14.3	12.7	13.4	13.5	13.1	13.3	17.3	16.3	16.7	
26	10.7	8.9	9.9	14.5	13.0	13.5	13.9	13.1	13.5	18.5	16.8	17.4	
27	10.4	9.6	9.9	13.9	13.0	13.3	13.8	13.2	13.5	18.7	17.2	17.7	
28	10.6	9.1	9.7	16.0	13.0	14.3	14.4	13.2	13.7	19.0	17.4	18.0	
29	12.1	9.4	10.6	14.7	13.4	13.9	14.0	13.0	13.5	18.9	17.6	18.2	
30	---	---	---	14.7	13.4	13.9	14.4	13.2	13.8	20.4	18.5	19.2	
31	---	---	---	15.3	13.2	14.0	---	---	---	20.6	18.4	19.2	
MONTH	12.1	4.1	7.2	16.0	9.8	12.1	15.3	12.1	13.4	21.0	13.3	16.6	

03400800 MARTINS FORK NEAR SMITH, KY--Continued

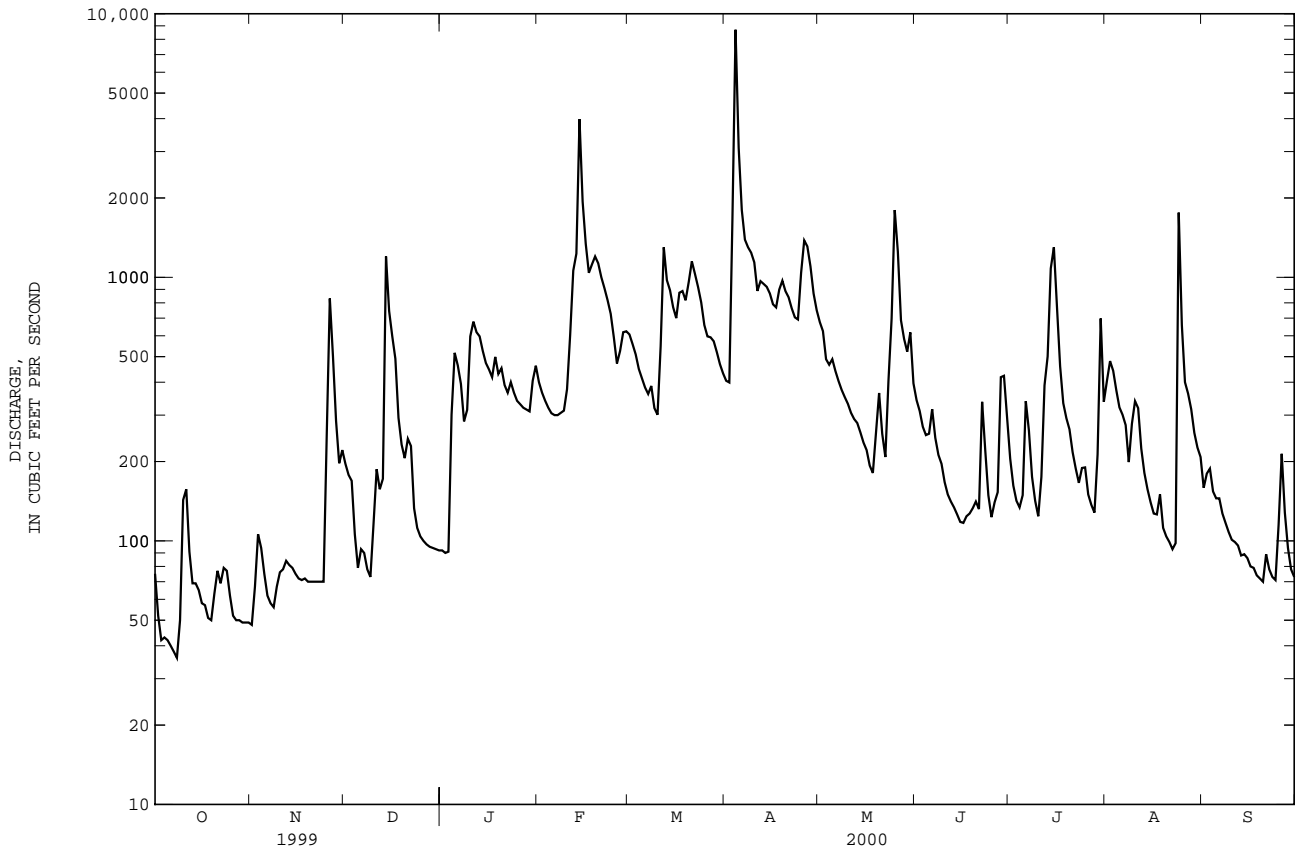
OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	13.6	13.2	13.3	12.4	10.6	11.7	10.7	9.9	10.3	11.4	9.9	10.7
2	13.3	12.9	13.2	12.3	11.4	11.7	10.2	9.9	10.0	10.1	9.9	10.0
3	13.4	12.7	13.0	12.3	10.6	11.7	10.0	9.8	9.9	11.1	9.3	10.4
4	13.2	12.9	13.0	11.9	11.3	11.5	10.7	9.9	10.3	9.8	9.3	9.7
5	13.4	13.1	13.3	12.3	10.6	11.8	11.2	10.5	10.7	10.5	9.7	10.0
6	13.5	13.1	13.3	11.7	11.0	11.4	11.2	10.4	10.8	11.1	9.5	10.4
7	13.3	12.6	13.0	12.4	11.4	11.9	11.0	10.4	10.8	10.6	9.5	10.0
8	13.2	12.0	12.7	12.5	11.4	12.2	11.1	10.4	10.7	10.9	9.5	10.4
9	12.8	12.0	12.5	12.0	11.4	11.7	11.2	10.6	10.8	10.8	9.4	10.2
10	13.3	11.9	12.4	12.2	11.2	11.9	11.3	10.1	10.5	10.7	9.3	10.0
11	12.6	12.0	12.3	11.8	11.3	11.5	10.6	10.2	10.4	10.8	9.7	10.3
12	12.9	12.1	12.4	12.1	11.8	12.0	10.7	10.3	10.5	10.6	9.0	9.7
13	12.6	11.9	12.3	12.2	11.5	11.8	10.8	10.4	10.7	10.9	9.2	10.2
14	11.9	11.5	11.8	12.1	11.6	11.7	10.7	10.6	10.6	10.3	9.3	9.9
15	11.9	11.5	11.6	12.3	11.4	11.9	10.7	10.4	10.6	10.9	9.4	10.2
16	13.0	11.8	12.2	12.3	11.6	12.0	10.4	10.2	10.3	10.2	9.6	9.9
17	13.4	12.9	13.1	12.0	11.7	11.9	10.5	10.0	10.2	9.7	8.5	9.1
18	13.4	12.3	12.8	11.8	11.6	11.7	10.4	10.1	10.2	9.3	8.1	8.8
19	13.2	12.2	12.8	11.8	11.0	11.3	10.2	10.0	10.1	8.8	7.9	8.2
20	13.1	12.6	12.9	11.3	10.7	11.1	11.0	9.8	10.4	9.2	7.9	8.4
21	13.4	12.4	13.0	11.1	10.8	11.0	11.0	10.3	10.6	8.7	7.8	8.3
22	13.2	12.7	12.9	11.2	10.9	11.1	11.1	10.0	10.6	8.9	7.8	8.4
23	13.3	12.3	12.8	11.2	10.5	10.8	11.3	9.8	10.6	9.1	8.8	9.0
24	13.1	12.5	12.8	10.7	10.2	10.4	10.6	9.9	10.3	11.0	8.9	9.9
25	12.8	11.7	12.1	10.5	10.2	10.3	11.1	9.5	10.1	11.2	11.0	11.1
26	12.6	11.1	12.3	10.4	9.8	10.2	10.8	9.6	10.3	11.7	11.2	11.5
27	12.2	11.5	12.0	10.3	10.0	10.1	11.0	9.3	10.1	11.7	8.4	10.3
28	12.8	11.4	12.4	10.3	9.4	9.9	10.6	10.0	10.3	9.7	8.3	8.9
29	12.3	11.4	11.9	10.4	9.9	10.2	11.4	10.5	10.8	9.9	8.9	9.6
30	---	---	---	10.3	10.1	10.2	11.4	10.0	10.5	9.1	8.7	8.9
31	---	---	---	10.5	10.1	10.3	---	---	---	9.0	8.0	8.2
MONTH	13.6	11.1	12.6	12.5	9.4	11.3	11.4	9.3	10.4	11.7	7.8	9.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	8.5	7.9	8.2	7.0	6.6	6.9	7.5	7.2	7.4	7.1	6.6	6.9
2	8.9	8.4	8.8	6.7	6.3	6.5	7.4	7.0	7.2	7.3	6.7	7.0
3	8.9	8.4	8.7	6.9	6.3	6.6	7.2	6.9	7.1	7.3	6.3	6.9
4	9.3	8.5	8.9	6.7	6.1	6.4	7.2	6.9	7.0	7.3	6.7	6.9
5	9.5	8.6	8.9	6.5	6.2	6.3	7.3	6.9	7.1	7.6	6.6	7.1
6	9.5	8.5	8.9	6.4	6.2	6.2	7.3	7.0	7.2	8.0	7.3	7.6
7	9.6	8.8	9.2	6.4	6.3	6.4	7.4	6.7	7.1	7.9	6.8	7.4
8	10.2	9.0	9.6	6.6	6.1	6.4	6.9	6.6	6.7	7.2	6.5	6.8
9	10.1	8.1	9.2	6.2	5.9	6.0	7.2	6.5	6.9	7.1	6.4	6.6
10	8.6	7.7	8.2	6.1	5.7	5.9	7.2	6.6	6.9	7.0	6.4	6.7
11	8.3	7.6	7.9	6.4	5.8	6.1	7.2	6.6	6.9	7.1	6.5	6.8
12	8.6	7.9	8.3	6.4	6.0	6.2	7.4	6.6	6.9	7.2	6.6	6.9
13	8.6	7.9	8.2	6.6	6.1	6.3	7.1	6.6	6.9	7.1	6.6	6.8
14	9.0	7.8	8.6	6.8	6.2	6.5	7.2	6.5	6.8	7.2	6.7	6.9
15	9.2	8.8	9.0	7.2	6.6	6.9	7.2	6.5	6.8	7.5	6.8	7.0
16	9.2	7.9	8.7	7.5	6.9	7.2	7.4	6.4	6.8	7.4	6.7	7.2
17	8.6	7.9	8.3	7.8	7.2	7.5	7.3	6.4	6.8	7.5	7.0	7.3
18	8.6	7.9	8.3	7.6	7.2	7.4	7.2	6.5	6.8	7.6	6.9	7.2
19	8.6	7.8	8.2	7.5	7.2	7.4	7.2	6.7	6.9	7.4	6.9	7.1
20	8.5	7.3	7.9	7.8	7.3	7.6	7.2	6.6	6.9	7.6	6.8	7.2
21	8.1	7.2	7.6	7.6	6.8	7.4	7.1	6.4	6.9	7.2	6.7	6.9
22	7.9	7.2	7.5	7.4	6.8	7.1	7.4	6.3	6.6	7.3	6.9	7.1
23	7.8	7.4	7.6	7.5	6.9	7.2	7.0	6.4	6.7	7.4	6.9	7.2
24	8.0	7.1	7.6	7.4	6.8	7.0	7.2	6.3	6.7	7.5	6.6	7.0
25	7.4	7.0	7.2	7.3	6.7	7.0	7.3	6.3	6.8	7.2	6.5	6.7
26	7.8	7.0	7.5	7.3	6.8	7.0	7.5	7.1	7.3	7.2	6.5	6.9
27	8.5	7.5	7.8	7.3	6.9	7.1	7.6	7.1	7.2	7.5	6.7	7.2
28	7.9	7.5	7.8	7.4	6.8	7.1	7.5	7.1	7.3	7.6	6.8	7.1
29	7.8	7.4	7.6	7.7	6.9	7.2	7.7	7.2	7.4	7.8	7.1	7.5
30	7.8	6.6	7.3	7.6	6.7	7.1	7.6	7.2	7.3	8.0	6.8	7.5
31	---	---	---	7.9	6.8	7.3	7.7	6.9	7.2	---	---	---
MONTH	10.2	6.6	8.2	7.9	5.7	6.8	7.7	6.3	7.0	8.0	6.3	7.0

03401000 CUMBERLAND RIVER NEAR HARLAN, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL TOTAL	161428		153354		690	
ANNUAL MEAN	442		419		1130	
HIGHEST ANNUAL MEAN					293	
LOWEST ANNUAL MEAN					1941	
HIGHEST DAILY MEAN	3740	Jan 9	8700	Apr 4	33900	Apr 4 1977
LOWEST DAILY MEAN	28	Sep 16	36	Oct 8	5.0	Oct 9 1953
ANNUAL SEVEN-DAY MINIMUM	29	Sep 15	42	Oct 3	6.7	Oct 7 1953
INSTANTANEOUS PEAK FLOW			12200	Apr 4	64500	Apr 5 1977
INSTANTANEOUS PEAK STAGE			12.48	Apr 4	30.20	Apr 5 1977
INSTANTANEOUS LOW FLOW					3.0	Oct 9 1953
ANNUAL RUNOFF (CFSM)	1.18		1.12		1.85	
ANNUAL RUNOFF (INCHES)	16.06		15.25		25.08	
10 PERCENT EXCEEDS	1200		927		1550	
50 PERCENT EXCEEDS	157		268		331	
90 PERCENT EXCEEDS	48		70		53	

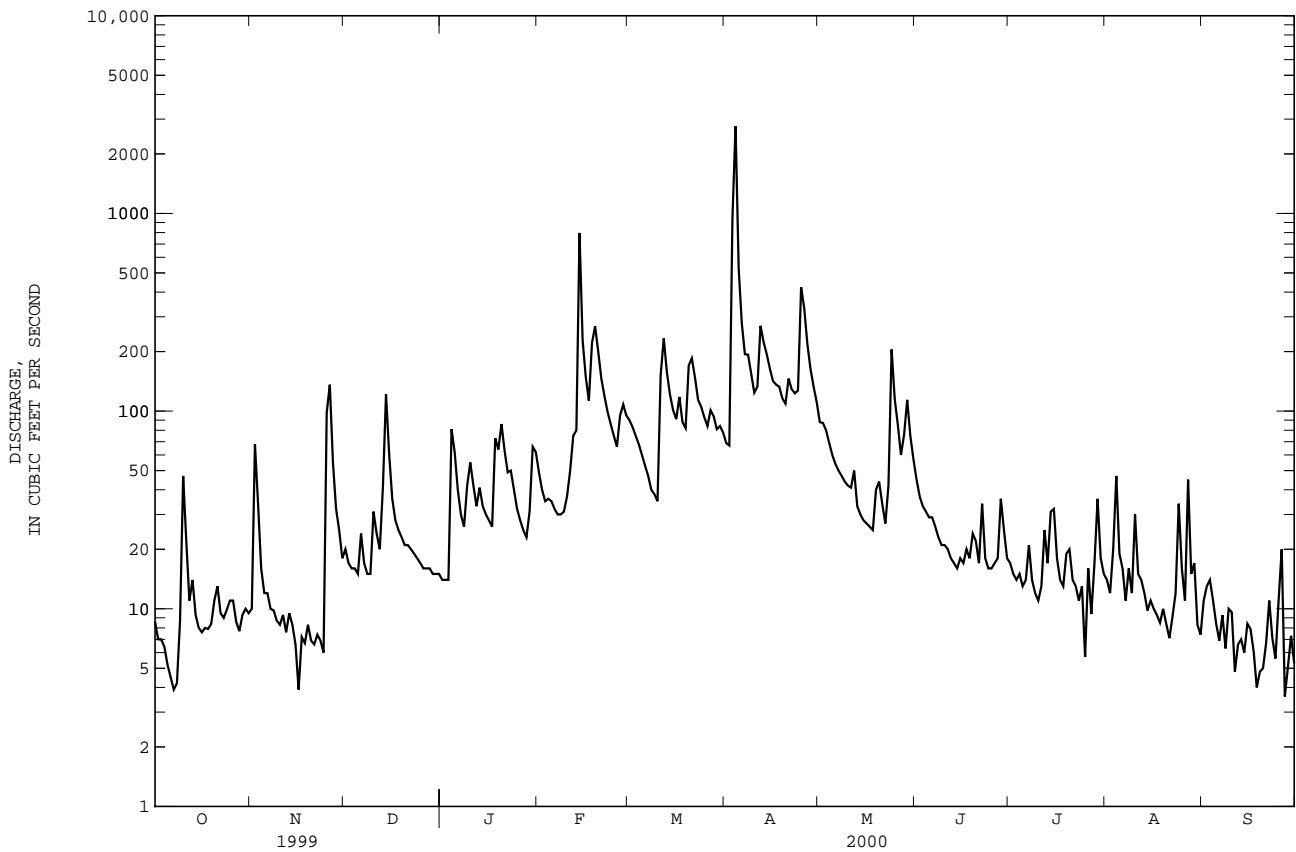
e Estimated



03402000 YELLOW CREEK NEAR MIDDLESBORO, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1941 - 2000	
ANNUAL TOTAL	26519.3		22199.0		119	
ANNUAL MEAN	72.7		60.7		219	
HIGHEST ANNUAL MEAN					49.5	
LOWEST ANNUAL MEAN					1941	
HIGHEST DAILY MEAN	1310	Jan 23	2770	Apr 4	7000	Apr 4 1977
LOWEST DAILY MEAN	2.8	Sep 11	3.6	Sep 27	1.2	Oct 7 1952
ANNUAL SEVEN-DAY MINIMUM	4.6	Sep 15	5.5	Oct 2	1.6	Sep 17 1955
INSTANTANEOUS PEAK FLOW			5000	Apr 4	11700	Apr 4 1977
INSTANTANEOUS PEAK STAGE			15.85	Apr 4	23.35	Apr 4 1977
INSTANTANEOUS LOW FLOW					.00	Sep 26 1952
ANNUAL RUNOFF (CFSM)	1.20		1.00		1.96	
ANNUAL RUNOFF (INCHES)	16.28		13.63		26.63	
10 PERCENT EXCEEDS	163		130		252	
50 PERCENT EXCEEDS	25		24		45	
90 PERCENT EXCEEDS	6.6		7.5		7.6	

e Estimated



CUMBERLAND RIVER BASIN

03402900 CUMBERLAND RIVER AT PINE STREET BRIDGE AT PINEVILLE, KY

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

DRAINAGE AREA.--770 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 970.00 ft above NGVD of 1929, Sandy Hook datum.

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	70	269	e132	836	1280	779	1320	670	412	418	260
2	104	123	254	e130	729	1150	755	1190	589	296	631	480
3	75	195	286	e128	649	1020	2400	1030	512	246	880	505
4	63	152	261	266	615	910	19700	868	454	219	713	297
5	59	148	185	764	599	808	9840	832	414	208	508	225
6	57	121	144	711	548	723	4310	788	447	244	414	200
7	57	103	147	608	515	665	2960	695	441	444	375	187
8	55	93	145	509	507	639	2580	630	358	329	349	174
9	55	88	131	460	526	641	2460	609	314	240	514	159
10	119	83	136	689	582	578	2220	576	287	205	472	156
11	276	92	203	1120	740	1230	1940	530	256	256	495	151
12	220	99	258	984	1340	3410	2390	484	233	467	393	137
13	133	97	261	1020	1940	2570	2340	456	219	559	285	133
14	111	105	1210	983	7690	1950	2220	437	207	1200	238	131
15	100	100	1620	808	4960	1650	2000	390	194	1950	208	120
16	87	93	941	736	2730	1420	1790	372	198	1430	191	115
17	82	85	748	666	2000	1570	1680	343	191	803	175	113
18	73	81	589	770	2200	1620	1920	301	214	543	165	108
19	73	83	387	927	2670	1550	1930	302	209	459	191	105
20	73	85	321	e870	2490	1740	1830	714	227	445	155	103
21	74	82	286	e770	2060	2220	1770	540	237	365	141	107
22	90	83	e260	e710	1740	2070	1650	430	571	293	134	116
23	87	84	e235	e640	1540	1800	1520	408	531	251	130	128
24	84	86	e210	e590	1350	1590	1460	1990	317	234	1320	115
25	92	294	e190	e550	1130	1360	2340	2560	233	254	1550	123
26	91	1270	e175	e500	943	1170	3030	2890	215	246	622	194
27	83	1190	e162	e465	946	1120	2770	1510	309	213	536	273
28	79	608	e155	e430	1350	1140	2290	1220	724	204	568	183
29	72	379	e148	e400	1340	1000	1870	1160	769	250	391	141
30	71	278	e140	588	---	926	1500	1050	575	440	318	123
31	70	---	e136	902	---	861	---	933	---	678	269	---
TOTAL	2917	6450	10593	19826	47265	42381	88244	27558	11115	14383	13749	5362
MEAN	94.1	215	342	640	1630	1367	2941	889	370	464	444	179
MAX	276	1270	1620	1120	7690	3410	19700	2890	769	1950	1550	505
MIN	55	70	131	128	507	578	755	301	191	204	130	103
CFSM	.12	.28	.44	.83	2.12	1.78	3.82	1.15	.48	.60	.58	.23
IN.	.14	.31	.51	.96	2.28	2.05	4.26	1.33	.54	.69	.66	.26

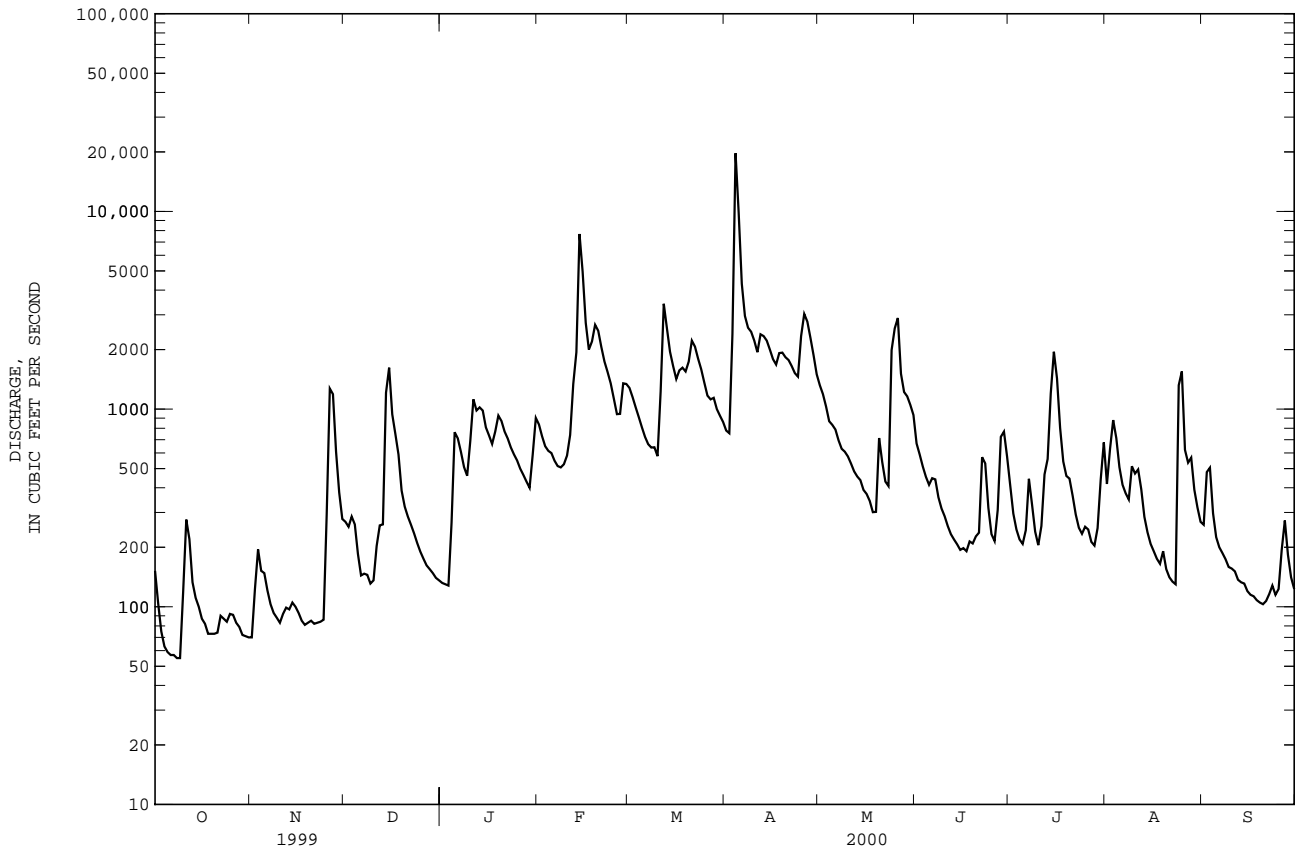
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2000, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000			
MEAN	221	756	1896	2369	2424	3272	2429	1656	854	380	411	196
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1992 - 2000	
ANNUAL TOTAL	311721		289843		1402	
ANNUAL MEAN	854		792		2241	
HIGHEST ANNUAL MEAN					792	
LOWEST ANNUAL MEAN					2000	
HIGHEST DAILY MEAN	10000	Jan 24	19700	Apr 4	30800	Dec 3 1991
LOWEST DAILY MEAN	48	Sep 20	55	Oct 8	48	Sep 20 1999
ANNUAL SEVEN-DAY MINIMUM	49	Sep 16	60	Oct 3	49	Sep 16 1999
INSTANTANEOUS PEAK FLOW			22100	Apr 4	38700	Feb 11 1994
INSTANTANEOUS PEAK STAGE			33.11	Apr 4	43.67	Feb 11 1994
INSTANTANEOUS LOW FLOW					47	Sep 20 1999
ANNUAL RUNOFF (CFSM)	1.11		1.03		1.82	
ANNUAL RUNOFF (INCHES)	15.06		14.00		24.73	
10 PERCENT EXCEEDS	2380		1920		3100	
50 PERCENT EXCEEDS	261		438		676	
90 PERCENT EXCEEDS	70		93		115	

e Estimated

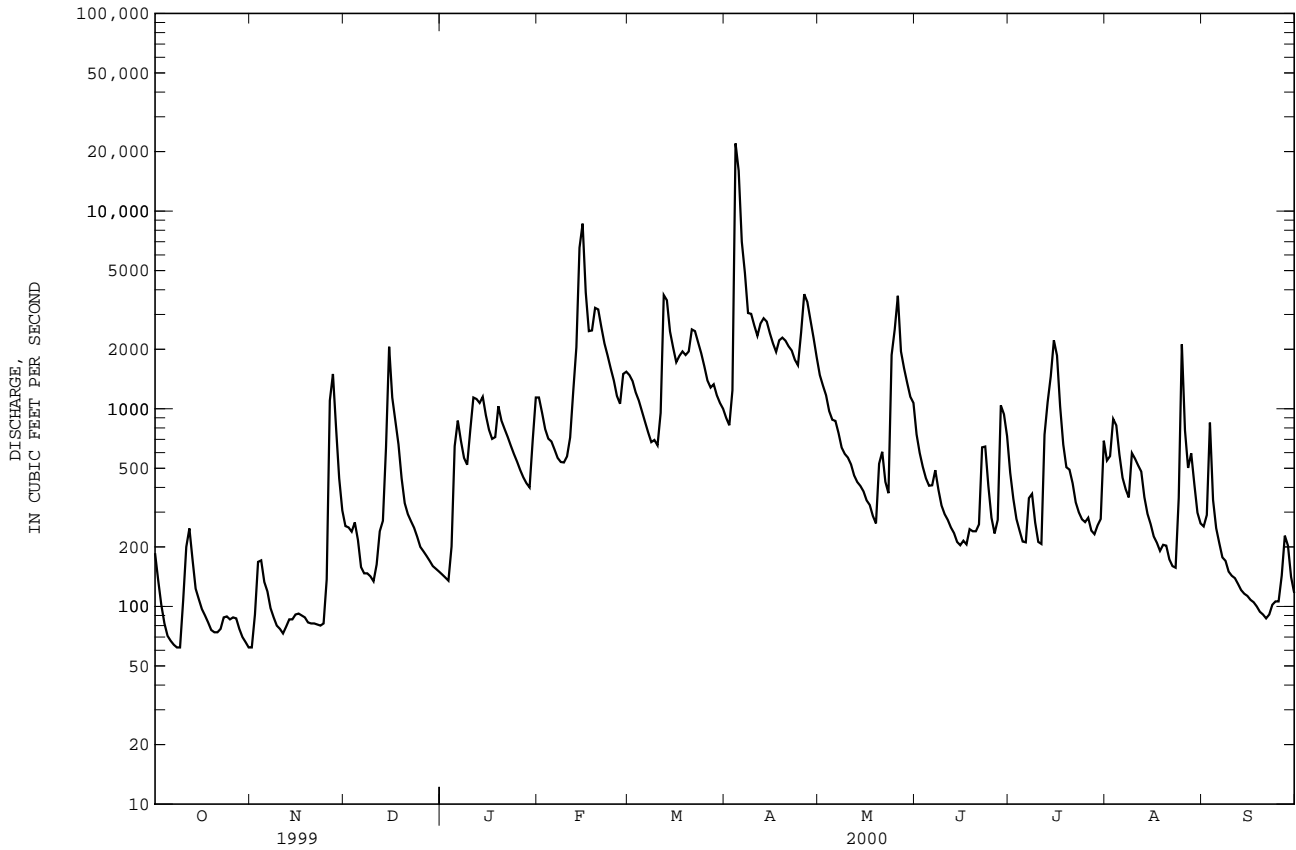


03403500 CUMBERLAND RIVER AT BARBOURVILLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1923 - 2000	
ANNUAL TOTAL	393001		336233		1752	
ANNUAL MEAN	1077		919		3018	
HIGHEST ANNUAL MEAN					824	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	14700	Jan 24	22000	Apr 4	47200	Apr 5 1977
LOWEST DAILY MEAN	50	Sep 19	62	Oct 8	.50	Oct 5 1930
ANNUAL SEVEN-DAY MINIMUM	53	Sep 16	73	Oct 3	5.4	Oct 2 1930
INSTANTANEOUS PEAK FLOW			25000	Apr 4	56100	Apr 6 1977
INSTANTANEOUS PEAK STAGE			(a) 28.63	Apr 5	45.91	Apr 6 1977
INSTANTANEOUS LOW FLOW					.20	Oct 5 1930
ANNUAL RUNOFF (CFSM)	1.12		.96		1.83	
ANNUAL RUNOFF (INCHES)	15.23		13.03		24.80	
10 PERCENT EXCEEDS	2800		2180		4090	
50 PERCENT EXCEEDS	258		436		780	
90 PERCENT EXCEEDS	71		90		100	

e Estimated

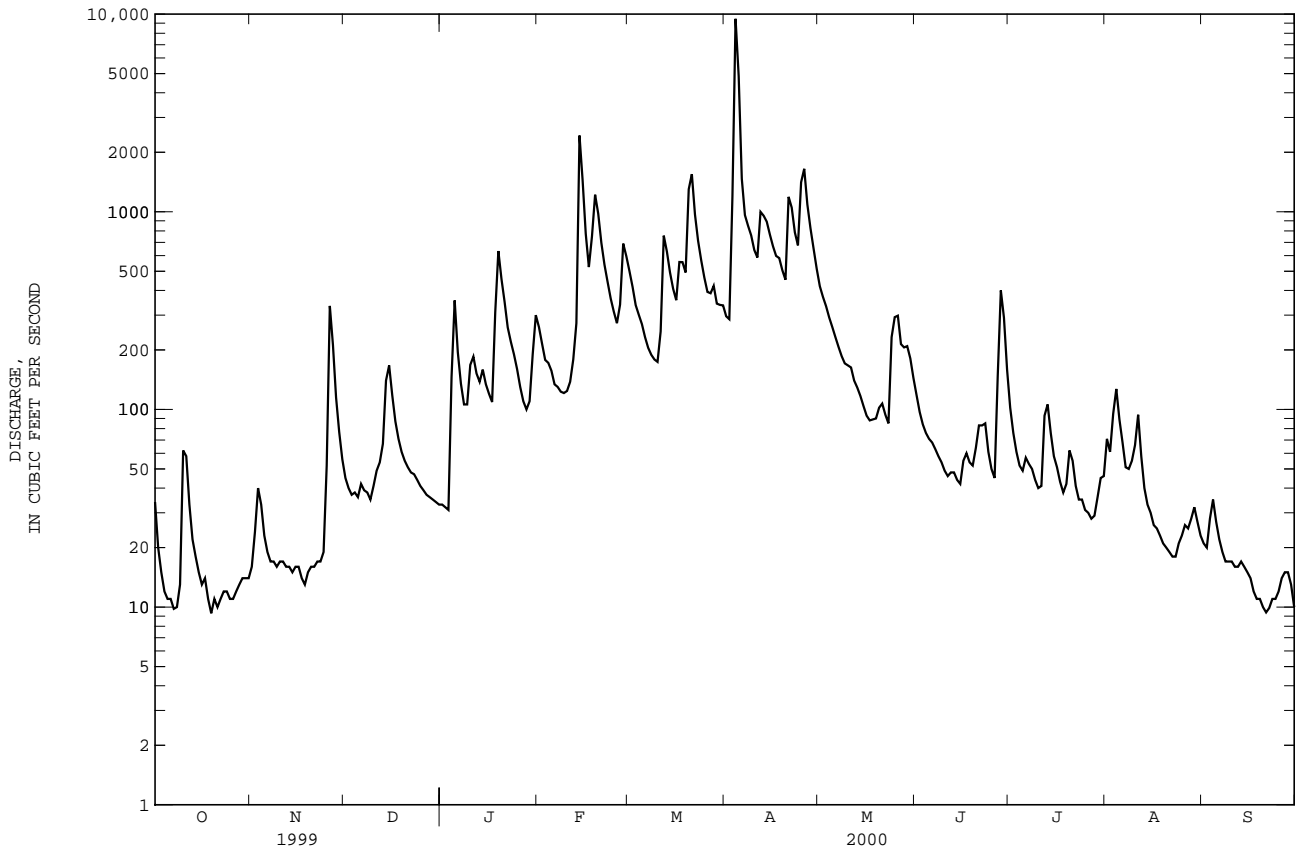
a Backwater



03403910 CLEAR FORK AT SAXTON, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1968 - 2000	
ANNUAL TOTAL	130387.1		88590.4		546	
ANNUAL MEAN	357		242		894	
HIGHEST ANNUAL MEAN					233	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	6540	Jan 24	9470	Apr 4	19400	May 28 1973
LOWEST DAILY MEAN	9.3	Oct 19	9.3	Oct 19	3.3	Aug 19 1988
ANNUAL SEVEN-DAY MINIMUM	11	Oct 18	10	Sep 18	6.7	Jul 5 1988
INSTANTANEOUS PEAK FLOW			10500		22800	
INSTANTANEOUS PEAK STAGE			26.97		41.51	
ANNUAL RUNOFF (CFSM)	1.08		.73		1.65	
ANNUAL RUNOFF (INCHES)	14.65		9.96		22.40	
10 PERCENT EXCEEDS	916		630		1170	
50 PERCENT EXCEEDS	105		66		250	
90 PERCENT EXCEEDS	16		14		35	

e Estimated



CUMBERLAND RIVER BASIN

03404000 CUMBERLAND RIVER AT WILLIAMSBURG, KY

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

DRAINAGE AREA.--1,607 mi².

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

REVISED RECORDS.--WSP 1436: Drainage area.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 891.52 ft above 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 January 1979.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	88	480	e250	1810	2220	1390	2440	1280	983	842	378
2	242	116	399	e240	1570	2080	1280	2080	961	702	871	389
3	242	126	380	e240	1290	1860	1600	1850	808	541	870	419
4	171	263	361	308	1110	1630	13800	1630	717	436	1250	855
5	131	318	388	664	1020	1480	22600	1390	641	377	1100	456
6	107	265	356	995	954	1300	19400	1270	589	362	822	345
7	94	239	297	1080	871	1160	14300	1190	583	367	568	285
8	86	197	256	886	810	1040	6150	1060	630	472	461	252
9	88	153	250	796	775	974	4680	927	537	504	434	235
10	113	132	265	925	768	1000	4150	874	465	393	805	213
11	246	121	265	1230	813	1060	3690	839	422	347	778	198
12	310	114	294	1460	994	2830	4150	768	391	451	677	206
13	380	111	422	1350	1700	5280	4750	705	374	1370	564	193
14	314	115	604	1340	5710	4150	4620	658	345	1940	422	173
15	234	122	1280	1340	11000	3120	4140	607	340	2360	343	160
16	173	120	2050	1100	8320	2580	3610	569	350	2680	295	154
17	146	123	1290	968	4390	2580	3170	519	349	1870	259	145
18	131	122	991	959	3500	2850	3100	495	348	1140	235	138
19	119	118	802	1530	4620	2730	3290	473	359	784	213	133
20	112	111	623	e1600	4980	3240	3190	466	414	637	205	126
21	105	108	505	e1300	4220	4520	3490	697	532	599	217	122
22	100	109	455	e1100	3370	4230	3710	776	652	488	189	118
23	99	111	e410	e1000	2780	3630	3190	638	964	394	177	114
24	102	115	e380	e890	2360	3040	2780	1080	855	334	189	123
25	113	152	e350	e800	2040	2570	3530	2830	587	309	772	142
26	110	532	e330	e730	1750	2200	5740	4380	437	287	1800	151
27	104	1600	e310	e690	1550	1910	5750	3880	449	295	866	182
28	110	1630	e290	e650	1960	1900	4770	2500	1190	274	612	262
29	108	970	e280	e620	2340	1800	3830	2110	1860	256	667	277
30	99	643	e270	e900	---	1610	3080	1760	1360	286	508	211
31	93	---	e260	1540	---	1530	---	1470	---	344	396	---
TOTAL	4709	9044	15893	29481	79375	74104	166930	42931	19789	22582	18407	7155
MEAN	152	301	513	951	2737	2390	5564	1385	660	728	594	238
MAX	380	1630	2050	1600	11000	5280	22600	4380	1860	2680	1800	855
MIN	86	88	250	240	768	974	1280	466	340	256	177	114
CFSM	.09	.19	.32	.59	1.70	1.49	3.46	.86	.41	.45	.37	.15
IN.	.11	.21	.37	.68	1.84	1.72	3.86	.99	.46	.52	.43	.17

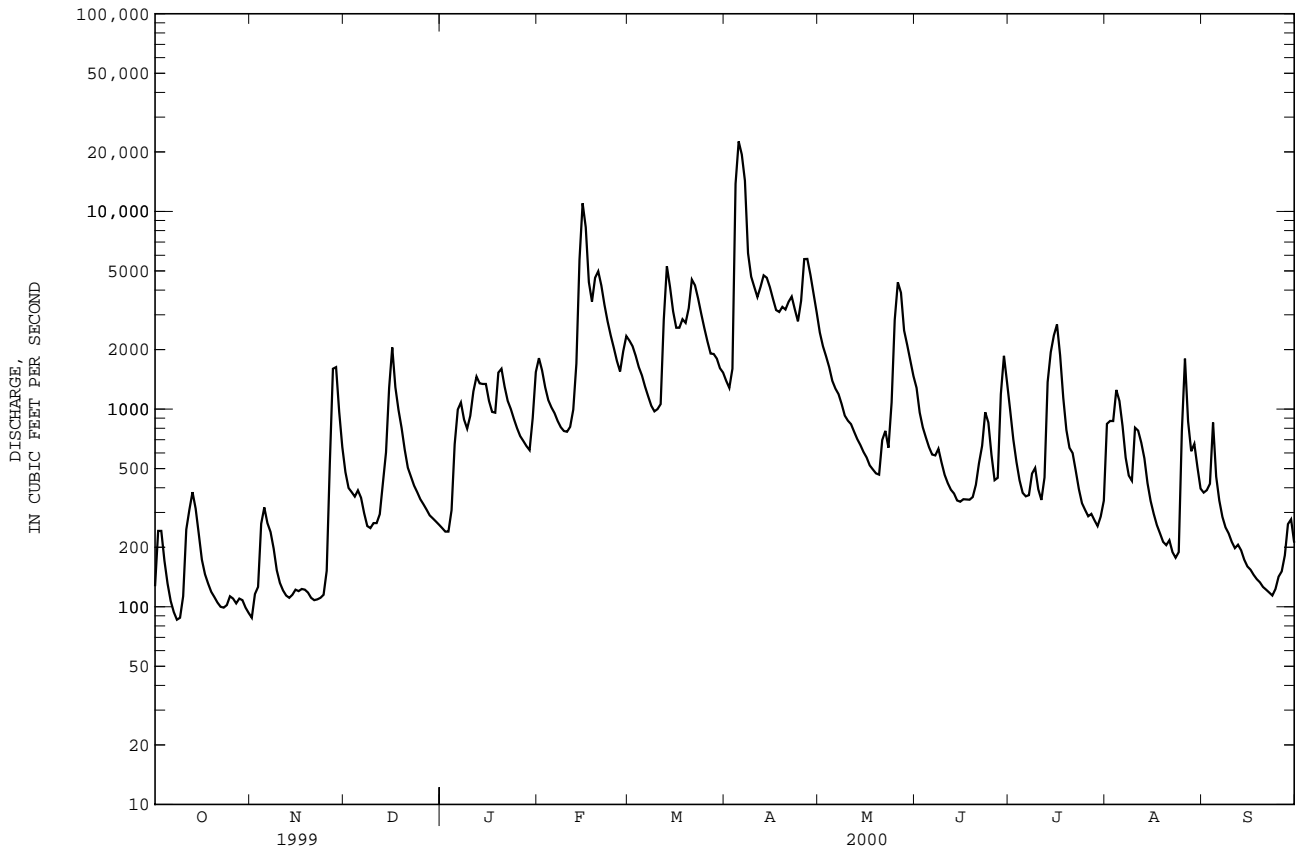
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000, BY WATER YEAR (WY)

MEAN	604	1709	3575	4631	5126	5986	4353	2939	1556	923	672	451
MAX	4413	6552	9751	11860	13550	14670	11520	9572	8305	4906	2142	3280
(WY)	1990	1978	1992	1974	1956	1963	1998	1984	1989	1967	1971	1989
MIN	10.2	50.6	150	203	1190	1193	730	705	277	122	109	33.3
(WY)	1954	1954	1966	1981	1968	1988	1986	1962	1988	1952	1954	1953

03404000 CUMBERLAND RIVER AT WILLIAMSBURG, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1951 - 2000	
ANNUAL TOTAL	626691		490400		2700	
ANNUAL MEAN	1717		1340		4390	
HIGHEST ANNUAL MEAN					1159	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	19200	Jan 24	22600	Apr 5	47600	Feb 1 1957
LOWEST DAILY MEAN	65	Sep 28	86	Oct 8	6.1	Oct 26 1953
ANNUAL SEVEN-DAY MINIMUM	67	Sep 22	102	Oct 26	6.9	Oct 22 1953
INSTANTANEOUS PEAK FLOW			23600	Apr 5	49700	Jan 31 1957
INSTANTANEOUS PEAK STAGE			22.61	Apr 5	35.03	Apr 7 1977
INSTANTANEOUS LOW FLOW					6.1	Oct 23 1953
ANNUAL RUNOFF (CFSM)	1.07		.83		1.68	
ANNUAL RUNOFF (INCHES)	14.51		11.35		22.83	
10 PERCENT EXCEEDS	4980		3310		6480	
50 PERCENT EXCEEDS	470		640		1200	
90 PERCENT EXCEEDS	106		123		159	

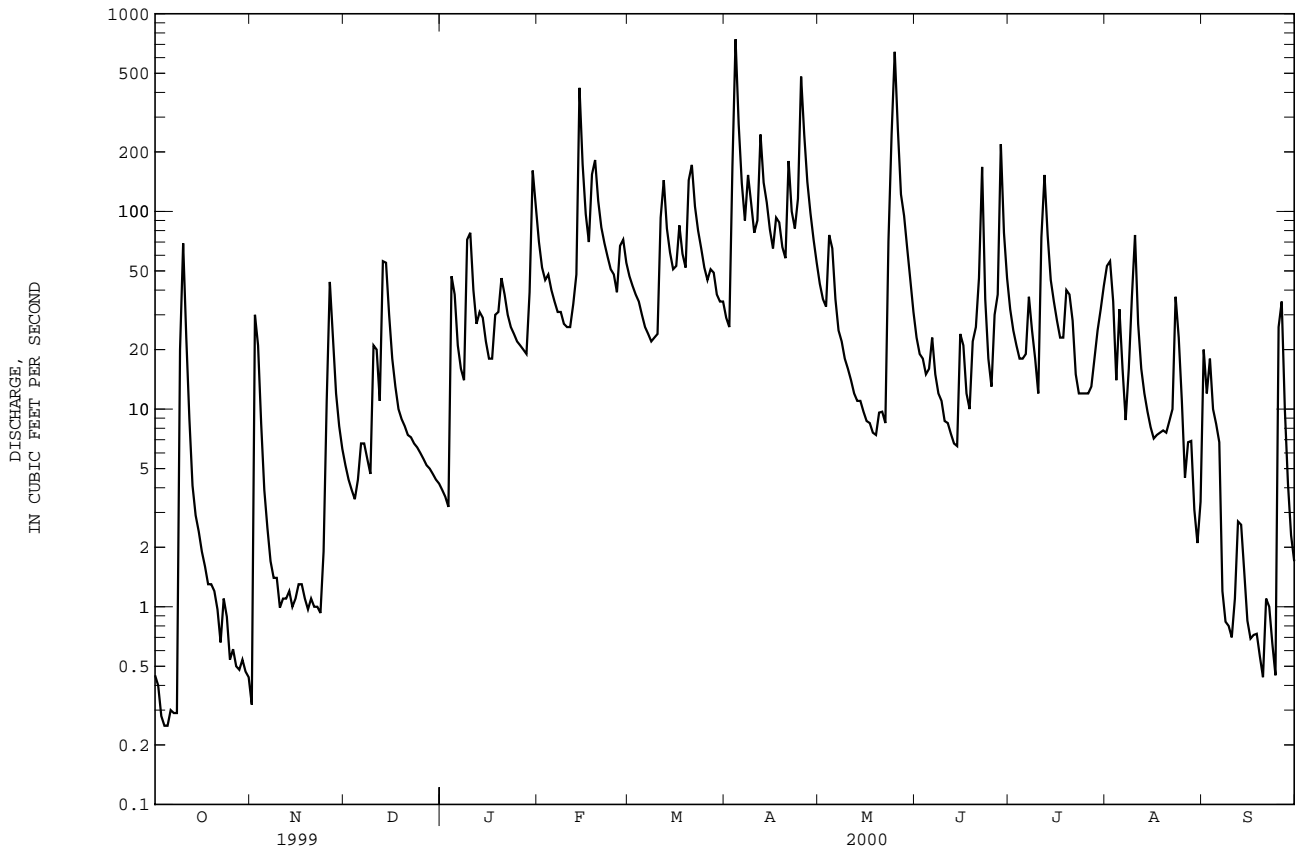
e Estimated



03404900 LYNN CAMP CREEK AT CORBIN, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1967 - 2000	
ANNUAL TOTAL	18183.50		15134.45		87.2	
ANNUAL MEAN	49.8		41.4		141	
HIGHEST ANNUAL MEAN					1994	
LOWEST ANNUAL MEAN					36.5	
HIGHEST DAILY MEAN	1790	Jan 9	743	Apr 4	4530	Apr 17 1998
LOWEST DAILY MEAN	.10	Sep 18	.25	Oct 4	.02	Jun 24 1988
ANNUAL SEVEN-DAY MINIMUM	.14	Sep 13	.29	Oct 2	.02	Jun 24 1988
INSTANTANEOUS PEAK FLOW			1100	May 25	9000	Jan 29 1957
INSTANTANEOUS PEAK STAGE			6.57	May 25	22.50	Jan 29 1957
INSTANTANEOUS LOW FLOW					.02	Jun 24 1988
ANNUAL RUNOFF (CFSM)	.93		.77		1.62	
ANNUAL RUNOFF (INCHES)	12.57		10.46		22.01	
10 PERCENT EXCEEDS	115		94		193	
50 PERCENT EXCEEDS	8.9		20		36	
90 PERCENT EXCEEDS	.46		1.0		3.3	

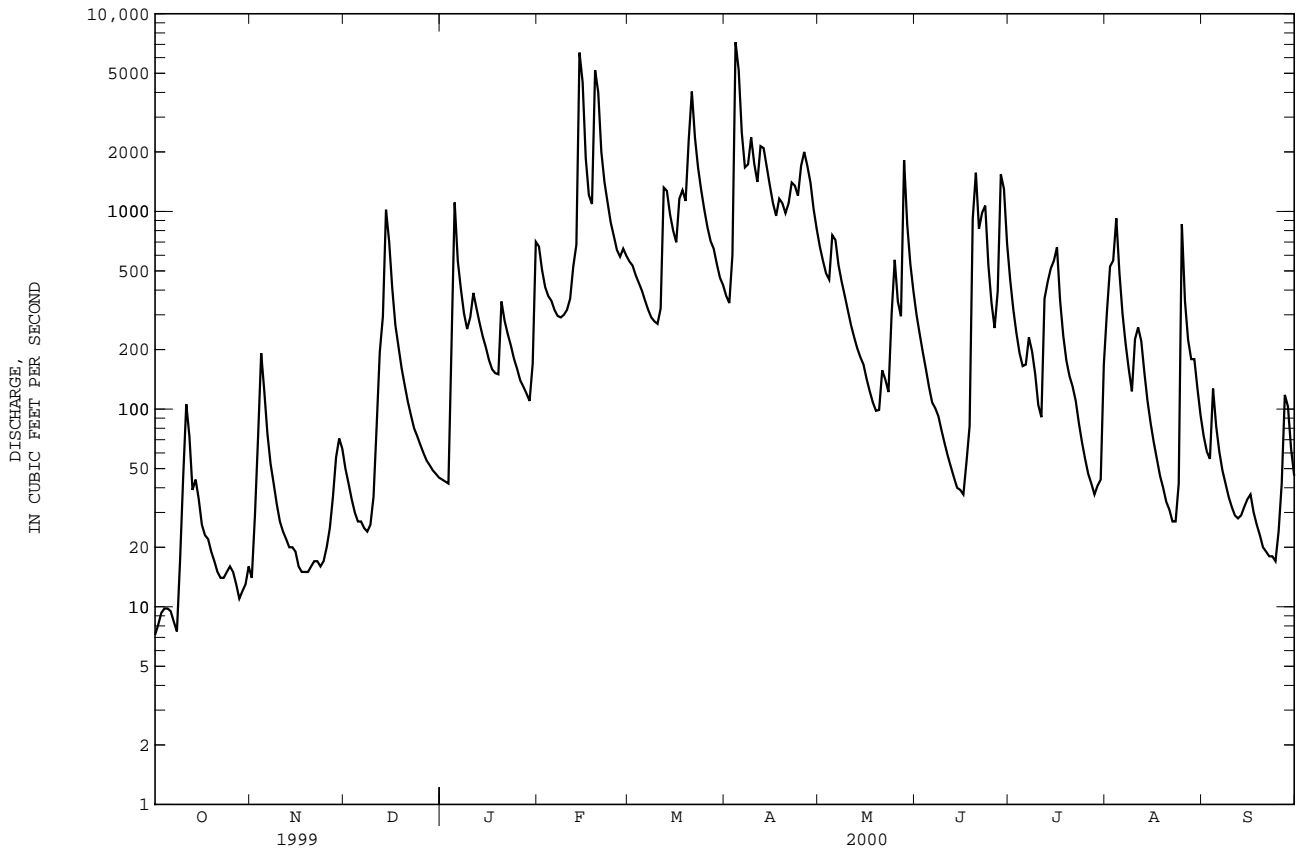
e Estimated



03406500 ROCKCASTLE RIVER AT BILLOWS, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1936 - 2000	
ANNUAL TOTAL	208822.2		173046.6		938	
ANNUAL MEAN	572		473		1575	
HIGHEST ANNUAL MEAN					345	
LOWEST ANNUAL MEAN					1979	
HIGHEST DAILY MEAN	19300	Jan 9	7180	Apr 4	46200	Dec 9 1978
LOWEST DAILY MEAN	6.7	Sep 29	7.2	Oct 1	.90	Sep 9 1957
ANNUAL SEVEN-DAY MINIMUM	7.9	Sep 27	8.9	Oct 1	1.4	Sep 11 1964
INSTANTANEOUS PEAK FLOW			9840	Apr 4	50000	Dec 9 1978
INSTANTANEOUS PEAK STAGE			18.24	Apr 4	47.17	Dec 9 1978
INSTANTANEOUS LOW FLOW					.80	Sep 9 1957
ANNUAL RUNOFF (CFSM)	.95		.78		1.55	
ANNUAL RUNOFF (INCHES)	12.86		10.66		21.10	
10 PERCENT EXCEEDS	1520		1270		2130	
50 PERCENT EXCEEDS	64		173		327	
90 PERCENT EXCEEDS	12		19		24	

e Estimated



CUMBERLAND RIVER BASIN

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 mi².

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

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

GAGE--Water-stage recorder. 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, National Park Service, and U.S. Army Corps of Engineers, Nashville District.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 4	1400	*37,700	*27.81	No other peak above base discharge.			

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	22	39	160	143	1490	2030	960	1600	948	817	267	47
2	23	126	133	140	1180	1640	874	1400	721	553	490	50
3	23	248	114	143	969	1340	1480	1250	571	406	800	66
4	23	226	106	262	878	1140	27600	2550	477	322	835	80
5	49	225	104	1800	779	1040	11500	2190	413	329	610	132
6	50	162	120	1260	661	929	5160	1500	376	286	438	99
7	43	128	130	803	589	813	3350	1160	346	235	309	76
8	38	107	118	594	545	720	2900	946	330	195	229	64
9	51	93	116	529	509	676	3170	790	274	170	184	59
10	172	82	169	702	488	650	2570	720	237	153	261	55
11	170	75	211	964	478	780	2220	663	208	213	285	51
12	214	71	258	818	551	3330	5070	614	186	256	292	48
13	186	67	472	693	771	2780	5440	504	168	213	205	58
14	132	64	854	853	6110	1940	3970	428	155	381	162	52
15	101	60	1070	791	6610	1530	3080	362	162	387	133	48
16	79	58	730	647	3460	1340	2470	316	184	260	112	41
17	69	56	508	578	2310	2990	2080	284	234	191	98	36
18	62	56	386	785	2480	3550	1910	259	287	153	85	33
19	57	54	319	2360	3740	2640	1650	246	337	142	76	32
20	52	52	272	e1900	3560	8300	1440	245	291	140	67	30
21	47	52	243	e1500	2640	8890	3230	233	271	126	61	30
22	44	52	222	e1200	2060	4580	2900	225	388	111	55	31
23	42	52	206	e1000	1680	3060	2040	292	771	103	53	58
24	40	53	197	e820	1400	2310	1780	6590	533	102	53	67
25	40	63	184	e700	1190	1860	4030	8170	349	89	52	82
26	39	91	167	e600	1040	1520	5730	5210	293	82	50	92
27	39	378	162	e530	1110	1340	3810	3910	362	76	56	68
28	39	382	157	e480	2720	1440	2910	3110	4980	70	72	67
29	39	267	151	e520	2590	1270	2490	2400	2820	98	59	64
30	39	200	150	e930	---	1120	1970	1760	1340	135	55	59
31	39	---	146	1680	---	1070	---	1320	---	180	51	---
TOTAL	2063	3639	8335	26725	54588	68618	119784	51247	19012	6974	6555	1775
MEAN	66.5	121	269	862	1882	2213	3993	1653	634	225	211	59.2
MAX	214	382	1070	2360	6610	8890	27600	8170	4980	817	835	132
MIN	22	39	104	140	478	650	874	225	155	70	50	30
CFSM	.07	.13	.28	.90	1.97	2.32	4.19	1.73	.66	.24	.22	.06
IN.	.08	.14	.33	1.04	2.13	2.68	4.67	2.00	.74	.27	.26	.07

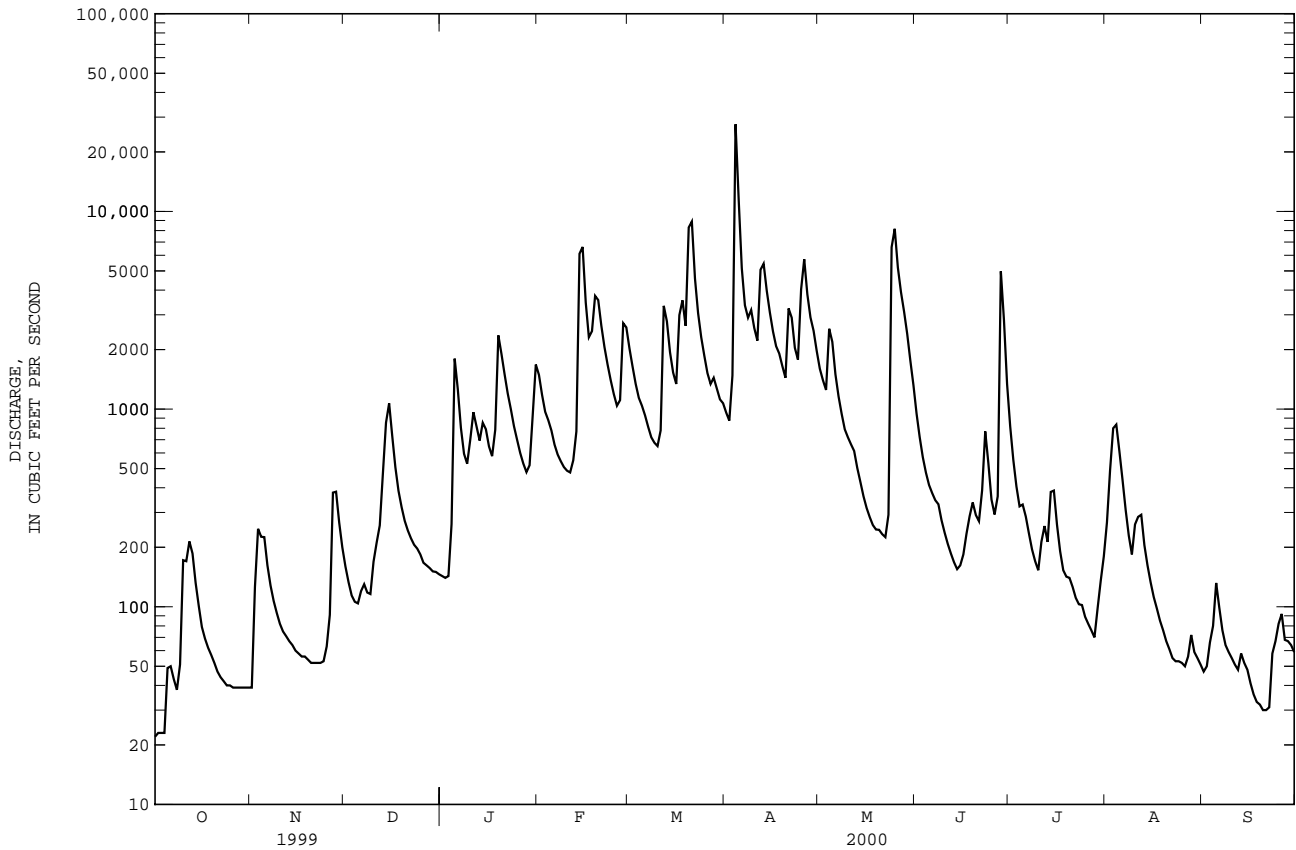
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2000, BY WATER YEAR (WY)

MEAN	385	1237	2607	3338	3494	3663	2570	1741	993	614	406	349
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1943 - 2000	
ANNUAL TOTAL	527722		369315		1776	
ANNUAL MEAN	1446		1009		3023	
HIGHEST ANNUAL MEAN					810	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	24500	Jan 24	27600	Apr 4	80200	Mar 13 1975
LOWEST DAILY MEAN	22	Sep 27	22	Oct 1	11	Sep 18 1954
ANNUAL SEVEN-DAY MINIMUM	22	Sep 26	33	Oct 1	12	Sep 13 1954
INSTANTANEOUS PEAK FLOW			37700		93200	
INSTANTANEOUS PEAK STAGE			27.81		46.29	
INSTANTANEOUS LOW FLOW			21		11	
ANNUAL RUNOFF (CFSM)	1.52		1.06		1.86	
ANNUAL RUNOFF (INCHES)	20.58		14.40		25.29	
10 PERCENT EXCEEDS	3700		2740		4070	
50 PERCENT EXCEEDS	538		292		717	
90 PERCENT EXCEEDS	41		52		81	

e Estimated



CUMBERLAND RIVER BASIN

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960-72, 1979 to 1990; July 1999 to Aug. 2000 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--May 1980 to Sep. 1990, July 1999 to Aug. 22, 2000 (discontinued). pH.--May 1980 to Sept. 1990, July 1999 to Aug. 22, 2000 (discontinued).
 WATER TEMPERATURES.--May 1980 to Sep. 1990, July 1999 to Aug. 22, 2000 (discontinued).
 DISSOLVED OXYGEN.--May 1980 to Sep. 1990 (discontinued).
 TURBIDITY.--May 1980 to Sep. 1987 (discontinued).
 SUSPENDED SEDIMENT DISCHARGE.--May 1980 to Sep. 1990 (discontinued).

INSTRUMENTATION.--Five parameter water-quality monitor and sediment pumping sampler May 1980 to Sep. 1990. Three parameter water-quality monitor from July 1999 to Aug. 22, 2000.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 434 microsiemens, July 17, 1985; minimum recorded, 40 microsiemens, May 7, 1984. pH.--Maximum recorded, 8.6 units, Aug. 10, 1989; minimum recorded, 5.2 units, May 19, Nov. 24, 1980.
 WATER TEMPERATURES.--Maximum recorded, 34.6°C, Aug. 31, Sep. 1, 1989; minimum recorded, 0.5 mg/L, Jan.28, 2000.
 SEDIMENT CONCENTRATIONS.--Maximum daily mean, 1980 mg/L, Aug. 9, 1981 minimum daily mean, 0 mg/L, on several days in 1983-84, 1987-88.
 SEDIMENT LOADS.--Maximum daily, 200,000 tons, Sep. 2, 1982; minimum daily, 0.04 ton, Nov. 25, 1987.

EXTREMES FOR CURRENT RECORD.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 219 microsiemens, Dec. 17; minimum recorded, 70 microsiemens, Apr.5. pH.--Maximum recorded, 7.7 units, May 17-23, May 30 to June 6; minimum recorded, 5.8 units, Feb. 23.
 WATER TEMPERATURES.--Maximum recorded, 29.2°C, Aug. 10; minimum recorded 0.5°C, Jan. 28.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BIDITY (NTU) (00076)
NOV 01...	1140	ENVIRONMENTAL	38	154	6.7	7.6	--	13.9	.56
DEC 08...	1210	ENVIRONMENTAL	109	345	7.1	7.6	--	6.6	.68
DEC 08...	1220	REPLICATE	--	--	--	7.4	--	--	1.4
JAN 12...	1225	ENVIRONMENTAL	786	124	6.6	7.5	--	5.0	3.3
FEB 23...	1210	ENVIRONMENTAL	1680	106	5.6	7.6	--	7.0	3.1
APR 05...	1300	ENVIRONMENTAL	11100	71	6.9	7.5	--	10.6	46
APR 05...	1310	REPLICATE	--	--	--	7.2	--	--	50
MAY 16...	1200	ENVIRONMENTAL	310	114	7.6	7.2	--	21.1	.50
JUN 27...	1125	ENVIRONMENTAL	255	114	7.3	7.7	24.2	26.0	.90
AUG 22...	1125	ENVIRONMENTAL	53	144	7.7	7.8	--	25.6	<.50

DATE	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)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD (MG/L AS CACO3) (00410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 01...	50	12	4.5	.5	8.6	26	2.3	27	9.6	25
DEC 08...	110	28	11	.8	20	27	2.9	53	8.6	97
DEC 08...	120	29	11	.8	21	27	2.9	--	9.1	98
JAN 12...	49	12	4.6	.2	3.9	14	1.5	19	3.6	32
FEB 23...	36	8.4	3.6	.2	2.4	12	1.0	9	2.2	23
APR 05...	27	6.2	2.7	.1	1.2	9	1.1	9	1.4	16
APR 05...	26	6.2	2.6	.1	1.2	9	1.1	--	1.3	16
MAY 16...	42	9.8	4.1	.3	3.7	16	1.4	20	2.6	25
JUN 27...	41	10	3.8	.3	4.1	18	1.5	28	3.5	19
AUG 22...	46	11	4.3	.5	7.6	25	1.8	30	3.6	29

CUMBERLAND RIVER BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	STRONTIUM, DIS-SOLVED (UG/L AS SR) (01080)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)
NOV 01...	<.10	2.0	E9.0	29	<.010	51	7.9	50	103	81
DEC 08...	<.10	2.4	<15	47	<.010	30	15	95	214	201
08...	<.10	2.5	<15	50	<.010	32	16	100	217	--
JAN 12...	<.10	4.0	E9.6	23	<.010	29	27	37	76	73
FEB 23...	<.10	4.5	E12	21	<.010	11	29	27	62	50
APR 05...	.52	4.8	19	18	--	25	55	20	47	39
05...	<.10	4.7	16	18	--	26	54	20	49	--
MAY 16...	<.10	2.4	<15	29	<.010	45	17	37	65	62
JUN 27...	<.10	3.0	19	29	<.010	90	18	42	68	62
AUG 22...	<.10	2.2	16	32	<.010	61	14	49	82	78

CUMBERLAND RIVER BASIN

03410600 SOUTH FORK CUMBERLAND RIVER AT YAMACRAW, KY

LOCATION.--Lat 36°43'32", long 84°32'38", McCreary County, Hydrologic Unit 05130104, on left bank 200 ft upstream of bridge on State Highway 92 at Yamacraw, 700 feet upstream from Wolf Creek, 0.6 mile downstream from Rock Creek, and at mile 40.3.
DRAINAGE AREA.--1,083 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1999 to September 30, 2000 (discontinued).

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

REMARKS.--Records poor.

COOPERATION.--National Park Service.

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	e25	e44	e180	e160	e1700	e2300	e1100	e1800	e1100	e930	e300	e53
2	e26	e140	e150	e160	e1300	e1900	e990	e1600	e820	e630	e560	e57
3	e26	e280	e130	e160	e1100	e1500	e1700	e1400	e650	e460	e910	e75
4	e26	e260	e120	e300	e1000	e1300	e31000	e2900	e540	e360	e950	e91
5	e56	e260	e120	e2000	e880	e1200	e13000	e2500	e470	e370	e690	e150
6	e57	e180	e140	e1400	e750	e1000	e5900	e1700	e430	e320	e500	e110
7	e49	e140	e150	e910	e670	e920	e3800	e1300	e390	e270	e350	e86
8	e43	e120	e130	e670	e620	e820	e3300	e1100	e380	e220	e260	e73
9	e58	e110	e130	e600	e580	e770	e3600	e900	e310	e190	e210	e67
10	e200	e93	e190	e800	e550	e740	e2900	e820	e270	e170	e300	e62
11	e190	e85	e240	e1100	e540	e880	e2500	e750	e240	e240	e320	e58
12	e240	e81	e290	e930	e620	e3800	e5800	e700	e210	e290	e330	e54
13	e210	e76	e540	e790	e880	e3200	e6200	e570	e190	e240	e230	e66
14	e150	e73	e970	e970	e6900	e2200	e4500	e490	e180	e430	e180	e59
15	e120	e68	e1200	e900	e7500	e1700	e3500	e410	e180	e440	e150	e54
16	e90	e66	e830	e730	e3900	e1500	e2800	e360	e210	e300	e130	e47
17	e78	e64	e580	e660	e2600	e3400	e2400	e320	e270	e220	e110	e41
18	e70	e64	e440	e890	e2800	e4000	e2200	e290	e330	e170	e96	e37
19	e65	e61	e360	e2700	e4200	e3000	e1900	e280	e380	e160	e86	e36
20	e59	e59	e310	e2200	e4000	e9400	e1600	e280	e330	e160	e76	e34
21	e53	e59	e280	e1700	e3000	e10000	e3700	e260	e310	e140	e69	e34
22	e50	e59	e250	e1400	e2300	e5200	e3300	e260	e440	e130	e62	e35
23	e48	e59	e230	e1100	e1900	e3500	e2300	e330	e880	e120	e60	e66
24	e45	e60	e220	e930	e1600	e2600	e2000	e7500	e600	e120	e60	e76
25	e45	e72	e210	e790	e1400	e2100	e4600	e9300	e400	e100	e59	e93
26	e44	e100	e190	e680	e1200	e1700	e6500	e5900	e330	e93	e57	e100
27	e44	e430	e180	e600	e1300	e1500	e4300	e4400	e410	e86	e64	e77
28	e44	e430	e180	e540	e3100	e1600	e3300	e3500	e5600	e79	e82	e76
29	e44	e300	e170	e590	e2900	e1400	e2800	e2700	e3200	e110	e67	e73
30	e44	e230	e170	e1100	---	e1300	e2200	e2000	e1500	e150	e62	e67
31	e44	---	e170	e1900	---	e1200	---	e1500	---	e200	e58	---
TOTAL	2343	4123	9450	30360	61790	77630	135690	58120	21550	7898	7438	2007
MEAN	75.6	137	305	979	2131	2504	4523	1875	718	255	240	66.9
MAX	240	430	1200	2700	7500	10000	31000	9300	5600	930	950	150
MIN	25	44	120	160	540	740	990	260	180	79	57	34
CFSM	.07	.13	.28	.90	1.97	2.31	4.18	1.73	.66	.24	.22	.06
IN.	.08	.14	.32	1.04	2.12	2.67	4.66	2.00	.74	.27	.26	.07

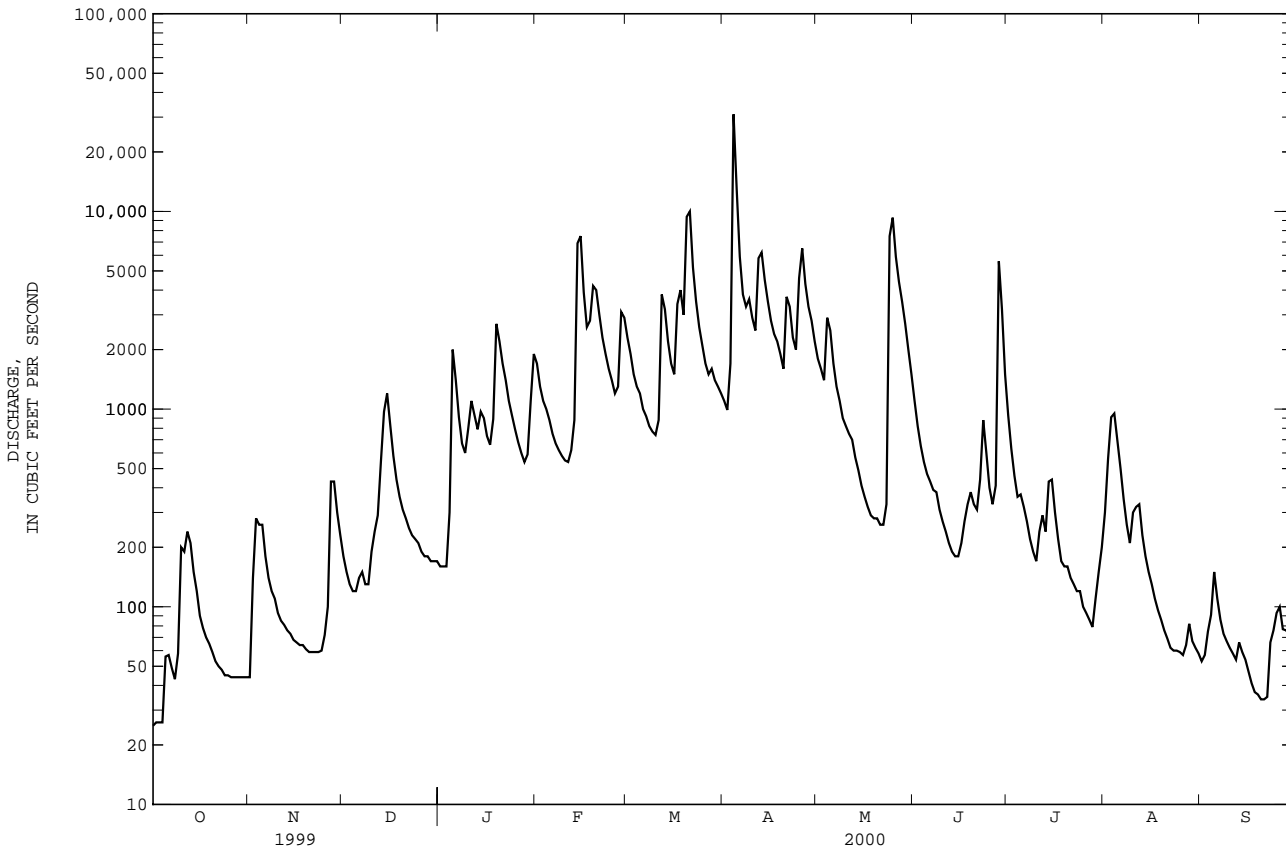
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	75.6	137	305	979	2131	2504	4523	1875	1296	1174	210	53.6
MAX	75.6	137	305	979	2131	2504	4523	1875	1874	2092	240	66.9
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	1999	1999	2000	2000
MIN	75.6	137	305	979	2131	2504	4523	1875	718	255	180	40.3
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999	1999

03410600 SOUTH FORK CUMBERLAND RIVER AT YAMACRAW, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL			418399			
ANNUAL MEAN			1143			1143
HIGHEST ANNUAL MEAN						1143
LOWEST ANNUAL MEAN						1143
HIGHEST DAILY MEAN	14000	Jun 29	31000	Apr 4	31000	Apr 4 2000
LOWEST DAILY MEAN	25	Sep 27	25	Oct 1	25	Sep 27 1999
ANNUAL SEVEN-DAY MINIMUM	25	Sep 26	38	Sep 16	25	Sep 26 1999
ANNUAL RUNOFF (CFSM)			1.06			1.06
ANNUAL RUNOFF (INCHES)			14.37			14.34
10 PERCENT EXCEEDS	1300		3130		3110	
50 PERCENT EXCEEDS	140		330		300	
90 PERCENT EXCEEDS	34		59		53	

e Estimated



CUMBERLAND RIVER BASIN

03410600 SOUTH FORK CUMBERLAND RIVER AT YAMACRAW, KY --Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES.--June 1999 to Aug. 2000.

WATER TEMPERATURES.--Oct. 1949 to Sep. 1963, unpublished; Oct. 1963 to Sep. 1976; June 1999 to Aug. 2000.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--June 1999 to Aug. 23, 2000 (discontinued). pH.--June 1999 to Aug. 23, 2000 (discontinued).

WATER TEMPERATURES.--June 1999 to Aug. 23, 2000 (discontinued).

INSTRUMENTATION.--Water-quality monitor from June 1999 to Aug. 23, 2000 (discontinued).

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 329 microsiemens, Dec. 12, 13; minimum recorded, 62 microsiemens, May 5. pH.--Maximum recorded, 7.2 units, May 11, 16-18, 24, 25; minimum recorded, 6.0 units, April 4.

WATER TEMPERATURES.--Maximum recorded, 28.4°C, July 28; minimum recorded, 0.0°C, Jan. 28.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS) (00400)	PH WATER WHOLE LAB (STAND-ARD) UNITS) (00403)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)
NOV									
02...	1030	ENVIRONMENTAL	75	161	6.2	7.5	10.0	14.7	1.5
02...	1038	FIELD BLANK	--	--	--	7.3	--	--	.41
DEC									
07...	1050	ENVIRONMENTAL	145	233	7.3	7.6	--	7.3	1.5
JAN									
10...	1100	ENVIRONMENTAL	767	170	6.2	7.6	--	6.7	9.5
FEB									
22...	1040	ENVIRONMENTAL	2360	108	6.4	7.9	--	6.8	5.2
APR									
03...	1035	ENVIRONMENTAL	1190	118	6.1	7.4	--	12.9	2.0
MAY									
15...	1105	ENVIRONMENTAL	406	106	7.1	7.1	--	21.8	.70
15...	1115	REPLICATE	--	--	--	6.9	--	--	.70
JUN									
26...	1100	ENVIRONMENTAL	294	136	6.8	7.6	--	27.3	.80
26...	1108	FIELD BLANK	--	--	--	8.6	--	--	.40
AUG									
23...	1045	ENVIRONMENTAL	50	169	7.6	7.6	--	25.7	<.50

DATE	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)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD (MG/L AS CaCO3) (00410)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV										
02...	53	13	4.8	.6	10	28	2.1	25	6.9	35
02...	--	<.020	<.014	--	<.090	--	<.24	--	<.29	<.31
DEC										
07...	77	19	7.1	.7	15	29	2.4	37	8.9	60
JAN										
10...	60	15	5.6	.3	5.6	16	1.8	22	3.5	43
FEB										
22...	35	8.3	3.5	.2	2.5	13	1.1	9	2.2	23
APR										
03...	43	10	4.3	.2	3.2	14	1.1	15	2.4	29
MAY										
15...	38	9.0	3.7	.2	3.4	16	1.3	19	2.3	23
15...	38	8.8	3.9	.3	3.6	17	1.2	--	2.4	24
JUN										
26...	49	12	4.5	.3	5.5	19	1.5	28	4.2	25
26...	--	<.020	<.014	--	<.090	--	<.24	--	<.29	<.31
AUG										
23...	53	13	4.6	.5	9.2	27	1.8	30	3.4	40

CUMBERLAND RIVER BASIN

03410600 SOUTH FORK CUMBERLAND RIVER AT YAMACRAW, KY --Contiuned--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L SIO2) (00955)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)
NOV										
02...	<.10	2.1	18	25	<.010	25	61	77	108	90
02...	<.10	E.050	<15	<1.0	<.010	<10	<2.2	<1.0	<10	--
DEC										
07...	<.10	2.8	18	37	<.010	100	58	86	145	138
JAN										
10...	<.10	4.2	27	25	<.010	28	56	51	100	92
FEB										
22...	<.10	4.7	E15	21	<.010	36	32	30	62	50
APR										
03...	.16	4.1	21	23	--	56	41	39	65	63
MAY										
15...	<.10	2.8	24	27	<.010	62	34	39	59	58
15...	<.10	2.9	18	29	<.010	47	34	41	59	--
JUN										
26...	<.10	2.7	33	30	<.010	96	29	52	81	73
26...	<.10	<.090	<15	<1.0	<.010	<10	3.0	<1.0	<10	--
AUG										
23...	<.10	2.9	35	31	<.010	61	52	70	97	94

CUMBERLAND RIVER BASIN

03413200 BEAVER CREEK NEAR MONTICELLO, KY

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

DRAINAGE AREA.--43.4 mi².

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

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

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

REMARKS.--Records 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 14	0430	*371	*3.83	No other peak above base discharge.			

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

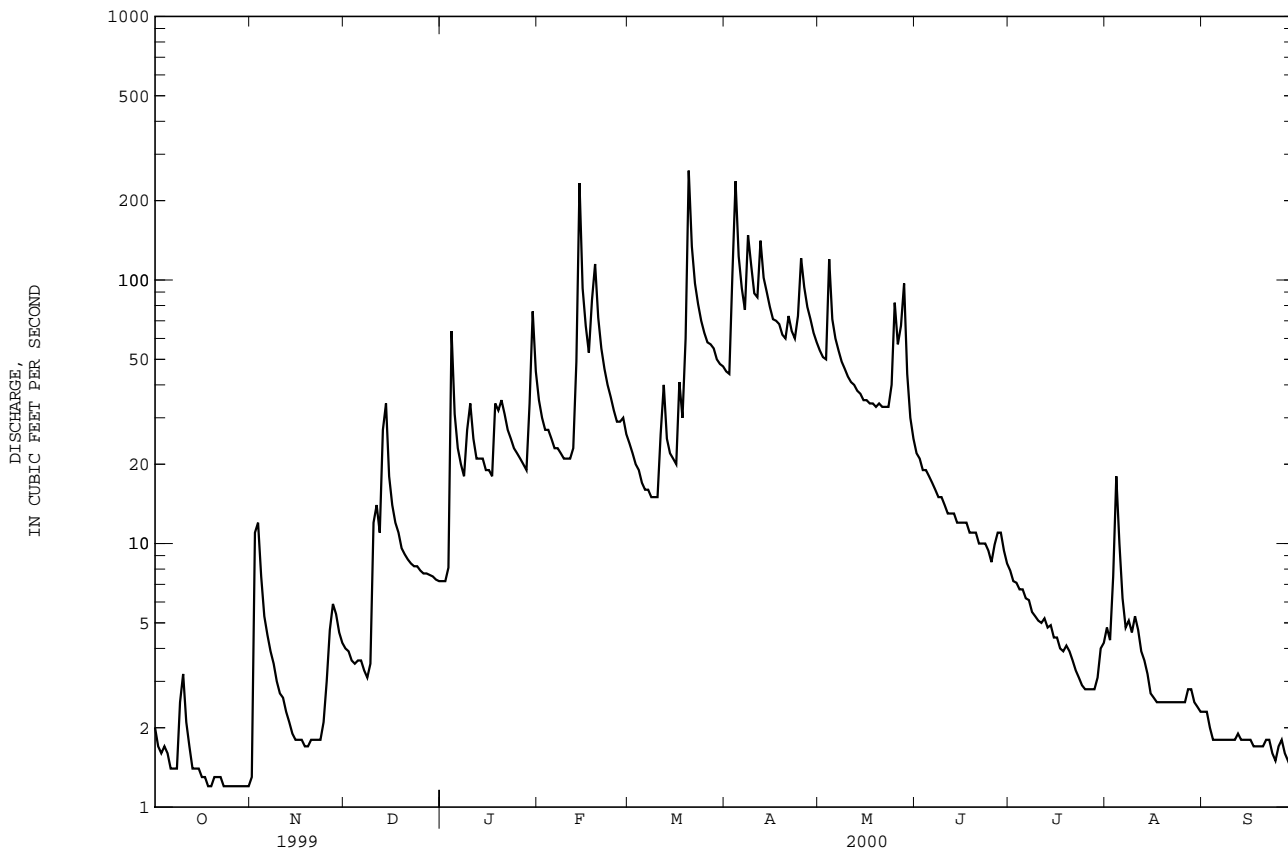
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	1.3	4.0	7.2	35	24	45	54	22	7.9	4.8	2.3
2	1.7	11	3.9	7.2	30	22	44	51	21	7.2	4.3	2.3
3	1.6	12	3.6	8.1	27	20	106	50	19	7.1	7.5	2.0
4	1.7	7.5	3.5	64	27	19	237	120	19	6.7	18	1.8
5	1.6	5.3	3.6	31	25	17	123	71	18	6.7	10	1.8
6	1.4	4.5	3.6	23	23	16	93	60	17	6.2	6.2	1.8
7	1.4	3.9	3.3	20	23	16	77	54	16	6.1	4.8	1.8
8	1.4	3.5	3.1	18	22	15	148	49	15	5.5	5.1	1.8
9	2.5	3.0	3.5	27	21	15	114	46	15	5.3	4.6	1.8
10	3.2	2.7	12	34	21	15	89	43	14	5.1	5.3	1.8
11	2.1	2.6	14	25	21	26	86	41	13	5.0	4.7	1.8
12	1.7	2.3	11	21	23	40	141	40	13	5.2	3.9	1.9
13	1.4	2.1	27	21	49	25	102	38	13	4.8	3.6	1.8
14	1.4	1.9	34	21	233	22	90	37	12	4.9	3.2	1.8
15	1.4	1.8	18	19	93	21	79	35	12	4.4	2.7	1.8
16	1.3	1.8	14	19	67	20	71	35	12	4.4	2.6	1.8
17	1.3	1.8	12	18	53	41	70	34	12	4.0	2.5	1.7
18	1.2	1.7	11	34	84	30	68	34	11	3.9	2.5	1.7
19	1.2	1.7	9.6	32	115	60	62	33	11	4.1	2.5	1.7
20	1.3	1.8	9.1	35	72	260	60	34	11	3.9	2.5	1.7
21	1.3	1.8	8.7	31	55	134	73	33	10	3.6	2.5	1.8
22	1.3	1.8	8.4	27	46	97	64	33	10	3.3	2.5	1.8
23	1.2	1.8	8.2	25	40	81	60	33	10	3.1	2.5	1.6
24	1.2	2.1	8.2	23	36	70	73	40	9.4	2.9	2.5	1.5
25	1.2	3.0	7.9	22	32	63	121	82	8.5	2.8	2.5	1.7
26	1.2	4.7	7.7	21	29	58	94	57	9.9	2.8	2.5	1.8
27	1.2	5.9	7.7	20	29	57	79	67	11	2.8	2.8	1.6
28	1.2	5.4	7.6	19	30	55	71	97	11	2.8	2.8	1.5
29	1.2	4.6	7.5	34	26	50	63	44	9.4	3.1	2.5	1.4
30	1.2	4.2	7.3	76	---	48	58	30	8.4	4.0	2.4	1.4
31	1.2	---	7.2	45	---	47	---	25	---	4.2	2.3	---
TOTAL	46.2	109.5	290.2	827.5	1387	1484	2661	1500	393.6	143.8	129.1	53.0
MEAN	1.49	3.65	9.36	26.7	47.8	47.9	88.7	48.4	13.1	4.64	4.16	1.77
MAX	3.2	12	34	76	233	260	237	120	22	7.9	18	2.3
MIN	1.2	1.3	3.1	7.2	21	15	44	25	8.4	2.8	2.3	1.4
CFSM	.03	.08	.22	.62	1.10	1.10	2.04	1.11	.30	.11	.10	.04
IN.	.04	.09	.25	.71	1.19	1.27	2.28	1.29	.34	.12	.11	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2000, BY WATER YEAR (WY)

MEAN	20.2	26.6	78.5	98.5	110	130	82.3	46.2	42.4	8.80	7.56	5.67
MAX	164	78.6	306	155	206	299	242	114	151	18.3	25.9	27.6
(WY)	1990	1997	1991	1994	1998	1997	1998	1995	1998	1992	1996	1992
MIN	1.49	2.70	8.31	26.7	47.8	47.9	21.4	21.4	7.98	3.89	1.91	1.77
(WY)	2000	1999	1998	2000	2000	2000	1995	1992	1991	1990	1990	2000

03413200 BEAVER CREEK NEAR MONTICELLO, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1990 - 2000	
ANNUAL TOTAL	11187.8		9024.9		54.4	
ANNUAL MEAN	30.7		24.7		74.5	
HIGHEST ANNUAL MEAN					24.7	
LOWEST ANNUAL MEAN					1890	
HIGHEST DAILY MEAN	971	Jan 23	260	Mar 20	Oct 17 1989	
LOWEST DAILY MEAN	1.2	Oct 18	1.2	Oct 18	Sep 6 1995	
ANNUAL SEVEN-DAY MINIMUM	1.2	Oct 23	1.2	Oct 23	Oct 23 1999	
INSTANTANEOUS PEAK FLOW			371	Feb 14	3140	
INSTANTANEOUS PEAK STAGE			3.83	Feb 14	8.67	
INSTANTANEOUS LOW FLOW					.50	
ANNUAL RUNOFF (CFSM)	.71		.57		1.25	
ANNUAL RUNOFF (INCHES)	9.59		7.74		17.04	
10 PERCENT EXCEEDS	82		69		121	
50 PERCENT EXCEEDS	8.3		10		18	
90 PERCENT EXCEEDS	1.8		1.7		2.3	



CUMBERLAND RIVER BASIN

03438000 LITTLE RIVER NEAR CADIZ, KY

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

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

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

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

GAGE.--Water-stage recorder. Datum of gage is 391.45 ft above 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 18	0600	4,420	12.21	May 25	1530	*6,560	*15.19
May 27	0100	5,200	13.42				

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	19	22	18	36	30	487	159	423	e919	155	83	31
2	19	26	18	33	30	411	157	361	e803	148	105	28
3	19	23	19	38	30	355	323	317	e714	138	67	26
4	19	23	19	166	30	317	1090	639	644	128	72	24
5	19	25	22	293	31	282	871	2120	590	122	63	22
6	18	30	20	129	32	249	633	1410	555	116	54	21
7	18	27	18	96	31	223	519	876	498	110	50	22
8	18	25	21	79	31	205	434	684	456	103	51	23
9	e100	24	23	70	31	190	360	574	e422	97	49	24
10	e320	22	26	64	31	175	304	494	e393	92	52	26
11	130	22	33	59	29	159	274	423	e363	93	46	26
12	73	23	67	54	31	148	324	372	e336	89	42	34
13	51	23	405	52	33	141	338	358	e318	117	38	40
14	40	23	421	49	75	132	300	434	e300	129	33	36
15	34	29	292	46	222	125	272	349	e318	94	31	27
16	30	26	183	42	136	234	244	297	e301	85	30	25
17	30	22	136	39	110	509	268	264	e276	79	30	23
18	26	22	111	38	2880	427	327	241	e252	75	31	22
19	25	e22	95	39	2480	359	296	219	e237	76	32	21
20	24	e32	82	42	1190	635	266	202	e260	123	30	20
21	25	e90	73	37	862	678	239	185	e249	95	31	20
22	26	e50	66	38	703	521	211	172	228	78	27	22
23	26	e30	61	37	597	429	190	189	214	70	27	21
24	24	22	56	36	530	366	199	295	203	64	26	33
25	22	20	50	35	518	319	699	5640	191	61	25	60
26	22	22	45	35	462	277	721	3100	181	57	26	97
27	25	21	43	33	611	253	541	e3790	177	52	41	84
28	22	19	41	31	701	245	638	e3070	178	50	77	55
29	22	19	39	31	565	215	648	1840	175	54	66	41
30	22	19	38	31	---	192	507	1360	163	63	43	39
31	22	---	36	30	---	176	---	e1100	---	95	36	---
TOTAL	1290	803	2577	1838	13042	9434	12352	31798	10914	2908	1414	993
MEAN	41.6	26.8	83.1	59.3	450	304	412	1026	364	93.8	45.6	33.1
MAX	320	90	421	293	2880	678	1090	5640	919	155	105	97
MIN	18	19	18	30	29	125	157	172	163	50	25	20
CFSM	.17	.11	.34	.24	1.84	1.25	1.69	4.20	1.49	.38	.19	.14
IN.	.20	.12	.39	.28	1.99	1.44	1.88	4.85	1.66	.44	.22	.15

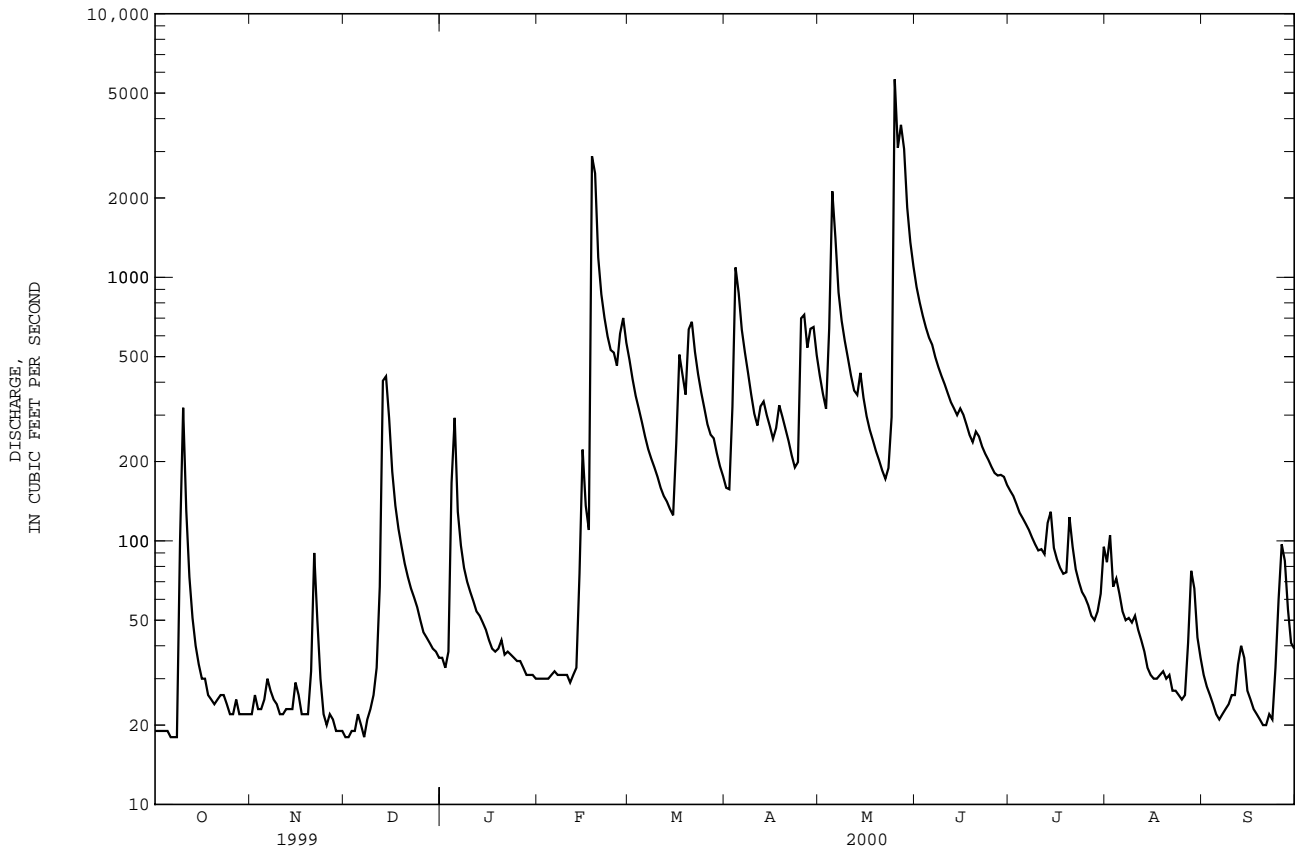
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

	MEAN	64.4	205	449	558	687	768	549	427	227	148	92.9	94.5
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL TOTAL	110647		89363		354	
ANNUAL MEAN	303		244		757	
HIGHEST ANNUAL MEAN					1997	
LOWEST ANNUAL MEAN					58.9	
HIGHEST DAILY MEAN	6930	Jan 23	5640	May 25	24300	Mar 2 1997
LOWEST DAILY MEAN	18	Oct 6	18	Oct 6	3.6	Oct 3 1941
ANNUAL SEVEN-DAY MINIMUM	19	Oct 2	19	Oct 2	7.0	Oct 24 1940
INSTANTANEOUS PEAK FLOW			6560	May 25	37600	Mar 1 1997
INSTANTANEOUS PEAK STAGE			15.19	May 25	26.44	Mar 1 1997
INSTANTANEOUS LOW FLOW					1.0	Oct 3 1941
ANNUAL RUNOFF (CFSM)	1.24		1.00		1.45	
ANNUAL RUNOFF (INCHES)	16.87		13.62		19.74	
10 PERCENT EXCEEDS	682		558		827	
50 PERCENT EXCEEDS	101		74		139	
90 PERCENT EXCEEDS	22		22		28	

e Estimated



TENNESSEE RIVER BASIN

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 mi²; 40,200 mi² 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 are published 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 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)
NOV											
24...	1220	ENVIRONMENTAL	18300	.052	172	7.6	14.5	3.0	10.2	100	59
DEC											
15...	1140	ENVIRONMENTAL	36500	.050	198	7.7	9.5	3.0	11.1	98	69
JAN											
19...	1110	ENVIRONMENTAL	35100	.054	207	7.8	7.0	3.1	12.7	105	78
19...	1118	FIELD BLANK	--	--	--	--	--	--	--	--	--
FEB											
08...	1050	ENVIRONMENTAL	15500	.053	205	8.6	4.0	3.9	16.3	123	77
MAR											
23...	1130	ENVIRONMENTAL	65000	.052	218	7.7	13.0	5.0	11.1	105	88
APR											
27...	1140	ENVIRONMENTAL	63600	.084	169	7.4	16.0	6.1	9.4	96	73
27...	1148	FIELD BLANK	--	--	--	--	--	--	--	--	--
MAY											
12...	1210	ENVIRONMENTAL	35800	.073	152	7.6	21.5	2.8	9.2	106	61
12...	1218	FIELD BLANK	--	--	--	--	--	--	--	--	--
25...	1150	ENVIRONMENTAL	17100	.075	166	7.9	23.5	5.0	9.1	109	64
25...	1158	FIELD BLANK	--	--	--	--	--	--	--	--	--
JUN											
12...	1050	ENVIRONMENTAL	22100	.070	153	8.1	26.5	3.0	10.0	125	58
12...	1100	REPLICATE	--	.067	--	--	--	1.9	--	--	59
JUL											
13...	1150	ENVIRONMENTAL	38500	.056	149	7.3	29.5	2.5	5.5	73	52
AUG											
14...	1110	ENVIRONMENTAL	26600	.054	169	7.3	29.0	2.6	6.0	79	55
SEP											
11...	1050	ENVIRONMENTAL	34500	.058	183	7.2	26.5	.60	5.7	72	59

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, TOTAL (MG/L AS N) (00600)
NOV 24...	16	4.5	11	2.0	62	51	12	15	<.10	5.1	97	.51
DEC 15...	20	4.8	11	2.0	74	61	13	18	<.10	4.9	118	.55
JAN 19...	23	5.0	12	1.9	70	58	13	17	<.10	3.5	123	.43
JAN 19...	.004	<.001	<.025	--	--	--	--	--	--	<.020	--	--
FEB 08...	23	4.6	12	1.8	79	64	14	16	.13	2.0	121	.60
MAR 23...	28	4.6	9.2	1.6	90	74	10	17	<.10	1.3	124	.82
APR 27...	24	3.5	5.2	1.6	73	60	6.6	12	<.10	3.2	97	.78
APR 27...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 12...	19	3.0	5.8	1.6	62	51	6.8	10	<.10	1.8	92	.67
MAY 12...	<.002	<.001	<.025	--	--	--	--	--	--	<.020	--	--
MAY 25...	20	3.2	6.9	1.6	64	52	8.7	12	<.10	1.9	96	.55
MAY 25...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 12...	18	3.2	6.1	1.6	59	48	7.3	11	<.10	1.6	85	--
JUN 12...	18	3.3	6.2	1.6	--	--	7.3	11	.10	1.6	85	.44
JUL 13...	15	3.4	7.5	1.7	55	45	8.7	12	<.10	1.8	84	.47
AUG 14...	15	4.0	9.0	1.7	53	43	11	14	<.10	2.9	102	--
SEP 11...	16	4.7	11	2.0	56	46	12	16	.12	3.9	98	.57

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)
NOV 24...	.43	.23	.14	<.010	.244	.038	--	.18	.27	.053	.043	.07
DEC 15...	.50	.22	.17	<.010	.273	.056	--	.23	.28	.057	.045	.08
JAN 19...	.48	.12	.16	<.010	.267	.048	--	.21	.17	.054	.040	.09
JAN 19...	--	--	--	<.001	<.005	<.002	--	--	--	--	--	--
FEB 08...	.30	--	--	<.010	.148	<.020	--	.15	.45	.067	.017	.02
MAR 23...	.72	.31	.22	<.010	.467	.040	--	.25	.35	.064	.029	.08
APR 27...	.63	.28	.14	.010	.449	.046	.439	.18	.33	.086	.040	.11
APR 27...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 12...	.52	--	--	<.010	.329	<.020	--	.19	.34	.016	.018	.03
MAY 12...	--	--	--	<.001	<.005	<.002	--	--	--	--	--	--
MAY 25...	.39	.39	.23	<.010	.121	.041	--	.27	.43	.049	.016	.02
MAY 25...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 12...	--	--	--	<.010	<.050	<.020	--	.21	.40	.044	.010	--
JUN 12...	.27	--	--	<.010	.052	<.020	--	.22	.39	.045	.008	--
JUL 13...	.31	--	--	.015	.066	<.020	.051	.24	.40	.045	.015	.03
AUG 14...	--	--	--	<.010	<.050	<.020	--	.20	.41	.056	.024	.05
SEP 11...	.44	.36	.23	.013	.166	.051	.153	.28	.41	.077	.048	.13

TENNESSEE RIVER BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	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)
NOV 24...	.05	--	--	.024	--	--	E1	--	--	28	--	--
DEC 15...	.07	--	--	.027	--	--	<2	--	--	30	--	--
JAN 19...	.06	--	--	.029	--	--	<2	--	--	23	--	--
JAN 19...	--	--	--	<.001	<.30	<.20	--	<.20	<.20	2.5	<.30	<.20
FEB 08...	--	--	--	.006	--	--	E1	--	--	29	--	--
MAR 23...	.05	--	--	.027	--	--	<2	--	--	29	--	--
APR 27...	.06	1.9	.03	.035	--	--	E2	--	--	22	--	--
APR 27...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 12...	--	--	--	.010	--	--	<2	--	--	20	--	--
MAY 12...	--	--	--	<.001	.38	<.20	--	.22	<.20	<2.0	<.30	<.20
MAY 25...	.05	--	--	.005	--	--	<2	--	--	25	--	--
MAY 25...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 12...	--	--	--	<.001	--	--	E1	--	--	21	--	--
JUN 12...	--	--	--	<.001	--	--	E1	--	--	21	--	--
JUL 13...	--	.23	.05	.009	11	<1.0	<2	22	<1.0	25	<1.0	<.80
AUG 14...	--	--	--	.015	3.1	<1.0	E2	20	<1.0	32	<1.0	<.80
SEP 11...	.07	.68	.04	.041	--	--	E1	--	--	37	--	--
DATE	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)	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)	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)
NOV 24...	--	--	<10	--	E3	--	--	--	<2	--	58	--
DEC 15...	--	--	<10	--	<4	--	--	--	<2	--	69	--
JAN 19...	--	--	<10	--	E3	--	--	--	<2	--	71	--
JAN 19...	<.20	<.20	<3.0	<.30	--	<.10	<.20	<.50	--	<.20	<.10	<.10
FEB 08...	--	--	15	--	<4	--	--	--	<2	--	70	--
MAR 23...	--	--	E6.1	--	E2	--	--	--	<2	--	89	--
APR 27...	--	--	23	--	<4	--	--	--	<2	--	68	--
APR 27...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 12...	--	--	E9.9	--	<4	--	--	--	<2	--	57	--
MAY 12...	<.20	<.20	<3.0	<.30	--	<.10	<.20	<.50	--	<.20	<.10	<.10
MAY 25...	--	--	E7.7	--	<4	--	--	--	<2	--	66	--
MAY 25...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 12...	--	--	<10	--	<4	--	--	--	<2	--	63	--
JUN 12...	--	--	<10	--	<4	--	--	--	<2	--	65	--
JUL 13...	<1.0	<1.0	<10	<1.0	<4	<1.0	1.1	<1.0	<2	<1.0	61	--
AUG 14...	<1.0	<1.0	15	<1.0	<4	<1.0	1.5	<1.0	<2	<1.0	66	--
SEP 11...	--	--	<10	--	<4	--	--	--	<2	--	72	--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO-CHLOR, WATER, FLTRD, REC (UG/L) (49260)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALPHA BHC, DIS-SOLVED (UG/L) (34253)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CHLOR-PYRIFOS, DIS-SOLVED (UG/L) (38933)
NOV 24...	<10	--	--	2.1	.20	<.002	<.0020	.033	<.0020	<.0020	.0052
DEC 15...	<10	--	--	2.1	.20	<.002	<.0020	.029	<.0020	<.0020	E.0027
JAN 19...	<10	--	--	2.2	.30	<.002	<.0020	.029	<.0020	<.0020	.0040
JAN 19...	--	<.50	<.20	--	--	--	--	--	--	--	--
FEB 08...	<10	--	--	2.4	1.0	<.002	<.0020	.031	<.0020	<.0020	.0040
MAR 23...	<10	--	--	2.3	.40	<.002	<.0020	.048	<.0020	<.0020	.0048
APR 27...	<10	--	--	2.9	.33	<.002	.0077	.357	<.0020	<.0020	<.0040
APR 27...	--	--	--	E.22	<.20	<.002	<.0020	<.001	<.0020	<.0020	.0062
MAY 12...	<10	--	--	2.7	.53	<.002	.0063	.341	<.0020	<.0020	.0095
MAY 12...	--	1.6	<.20	--	--	--	--	--	--	--	--
MAY 25...	<10	--	--	2.7	.59	<.002	.0094	.407	<.0020	<.0020	.0058
MAY 25...	--	--	--	E.27	<.20	--	--	--	--	--	--
JUN 12...	<10	--	--	3.1	.72	<.002	<.0020	.474	<.0020	<.0020	<.0040
JUN 12...	<10	--	--	2.9	.63	<.002	.0074	.461	<.0020	<.0020	<.0040
JUL 13...	<10	5.7	<1.0	2.5	.50	<.002	<.0020	.268	<.0020	<.0020	E.0035
AUG 14...	<10	1.5	<1.0	2.5	.63	<.002	<.0020	.114	<.0020	<.0020	<.0040
SEP 11...	<10	--	--	2.5	1.0	<.002	<.0020	.063	<.0020	<.0020	.0055

DATE	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN, DIS-SOLVED (UG/L) (39381)	FONOFOS WATER DISS, REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METRI-BUZIN, SENCOR WATER DISSOLV (UG/L) (82630)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)
NOV 24...	.0075	E.0100	<.002	<.001	<.0030	<.004	<.005	<.004	E.004	<.0060	<.004
DEC 15...	.0074	E.0097	<.002	<.001	<.0030	<.004	<.005	<.004	E.004	<.0060	<.004
JAN 19...	.0081	E.0124	<.002	<.001	<.0030	<.004	<.005	<.004	.006	<.0060	<.004
JAN 19...	--	--	--	--	--	--	--	--	--	--	--
FEB 08...	<.0040	E.0122	<.002	<.001	<.0030	<.004	<.005	<.004	.006	<.0060	<.004
MAR 23...	<.0040	E.0235	<.002	<.001	<.0030	<.004	<.005	<.004	.011	<.0060	<.004
APR 27...	<.0040	E.0353	E.004	<.001	<.0030	<.004	<.005	<.004	.069	<.0060	<.004
APR 27...	<.0040	<.0020	<.002	<.001	<.0030	<.004	<.005	<.004	<.002	<.0060	<.004
MAY 12...	E.0070	E.0249	E.003	<.001	<.0030	<.004	<.005	<.004	.062	<.0060	<.004
MAY 12...	--	--	--	--	--	--	--	--	--	--	--
MAY 25...	<.0040	E.0456	E.004	<.001	<.0030	<.004	<.005	<.004	.054	<.0060	<.004
MAY 25...	--	--	--	--	--	--	--	--	--	--	--
JUN 12...	<.0040	E.0669	.004	<.001	<.0030	<.004	<.005	<.004	.058	<.0060	<.004
JUN 12...	<.0040	E.0619	<.002	<.001	<.0030	<.004	<.005	<.004	.054	<.0060	<.004
JUL 13...	<.0040	E.0406	<.002	<.001	<.0030	<.004	<.005	<.004	.026	<.0060	<.004
AUG 14...	<.0040	E.0314	<.002	<.001	<.0030	<.004	<.005	<.004	.006	<.0060	<.004
SEP 11...	.0117	E.0217	<.002	<.001	<.0030	<.004	<.005	<.004	.004	<.0060	<.004

TENNESSEE RIVER BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	BEN- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLTDR 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTDR 0.7 U GF, REC (UG/L) (82674)	DCPA WATER FLTDR 0.7 U GF, REC (UG/L) (82682)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL- FOTON WATER FLTDR 0.7 U GF, REC (UG/L) (82677)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)
NOV											
24...	<.0070	<.0180	.0078	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
DEC											
15...	<.0070	E.0049	.0129	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
JAN											
19...	<.0070	E.0061	.0151	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
19...	--	--	--	--	--	--	--	--	--	--	--
FEB											
08...	<.0070	E.0067	.0227	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
MAR											
23...	<.0070	E.0040	.0161	<.0020	<.0030	<.0250	<.0020	<.0030	<.0170	<.0040	<.0040
APR											
27...	<.0070	E.0044	.0424	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
27...	<.0070	<.0180	<.0050	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
MAY											
12...	<.0070	E.0070	.0385	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
12...	--	--	--	--	--	--	--	--	--	--	--
25...	<.0070	<.0180	.0378	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
12...	<.0070	E.0088	.0436	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
12...	<.0070	E.0093	.0404	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
JUL											
13...	<.0070	E.0053	.0253	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
AUG											
14...	<.0070	<.0180	.0100	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
SEP											
11...	<.0070	<.0180	.0063	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
DATE	ETHO- PROP WATER FLTDR 0.7 U GF, REC (UG/L) (82672)	EPTC WATER FLTDR 0.7 U GF, REC (UG/L) (82668)	LIN- URON WATER FLTDR 0.7 U GF, REC (UG/L) (82666)	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)	MOL- INATE WATER FLTDR 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTDR 0.7 U GF, REC (UG/L) (82684)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTDR 0.7 U GF, REC (UG/L) (82664)	PRON- AMIDE WATER FLTDR 0.7 U GF, REC (UG/L) (82676)
NOV											
24...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
DEC											
15...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
JAN											
19...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
19...	--	--	--	--	--	--	--	--	--	--	--
FEB											
08...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
MAR											
23...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
APR											
27...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
27...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0150	<.0040	<.0050	<.0020	<.0030
MAY											
12...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
12...	--	--	--	--	--	--	--	--	--	--	--
25...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
12...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
12...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
JUL											
13...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
AUG											
14...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
SEP											
11...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030

TENNESSEE RIVER BASIN

357

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	SEDI-MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI-MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV											
24...	<.0040	<.0130	E.0214	<.0070	<.0130	<.0010	<.0020	<.0020	4	198	98
DEC											
15...	<.0040	<.0130	E.0129	<.0070	<.0130	<.0010	<.0020	<.0020	5	493	98
JAN											
19...	<.0040	<.0130	E.0158	<.0070	<.0130	<.0010	<.0020	<.0020	7	663	95
19...	--	--	--	--	--	--	--	--	--	--	--
FEB											
08...	<.0040	<.0130	.0143	<.0070	<.0130	<.0010	<.0020	<.0020	7	293	98
MAR											
23...	<.0040	<.0130	.0193	<.0070	<.0130	<.0010	<.0020	<.0020	8	1400	97
APR											
27...	<.0040	<.0130	.0303	<.0070	<.0130	<.0010	<.0020	<.0020	15	2580	97
27...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	--	--	--
MAY											
12...	<.0040	<.0130	.0314	<.0070	<.0130	<.0010	<.0020	<.0020	11	1060	99
12...	--	--	--	--	--	--	--	--	--	--	--
25...	<.0040	<.0130	.0325	<.0070	<.0130	<.0010	<.0020	<.0020	11	508	99
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
12...	<.0040	<.0130	.0298	<.0070	<.0130	<.0010	<.0020	<.0020	7	418	98
12...	<.0040	<.0130	.0286	<.0070	<.0130	<.0010	<.0020	<.0020	--	--	--
JUL											
13...	<.0040	<.0130	E.0295	<.0070	<.0130	<.0010	<.0020	<.0020	7	728	100
AUG											
14...	<.0040	<.0130	.0258	<.0070	<.0130	<.0010	<.0020	<.0020	8	575	99
SEP											
11...	<.0040	<.0130	.0258	<.0070	<.0130	<.0010	<.0020	<.0020	12	1120	99

TENNESSEE RIVER BASIN

03610200 CLARKS RIVER AT ALMO, KY

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

DRAINAGE AREA.--134 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 413.46 ft above 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 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 18	0900	5,610	14.45	May 25	1300	*10,000	*16.06
Feb 27	0500	4,250	13.68	May 27	0230	6,850	15.02
Apr 17	0730	4,110	13.59				

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	5.2	e10	3.9	18	19	69	52	51	84	23	10	7.7
2	5.1	e18	4.1	20	19	54	66	48	68	20	9.2	6.9
3	4.9	e6.8	4.4	206	19	48	642	49	56	19	8.5	6.7
4	4.8	e5.8	5.3	293	20	50	600	55	49	17	48	6.3
5	5.4	e6.4	8.5	43	19	43	163	51	47	17	18	6.7
6	5.4	e6.6	6.7	29	19	39	92	45	41	16	10	7.3
7	5.5	e6.4	4.6	25	19	37	72	42	38	21	8.2	7.4
8	5.7	e6.0	4.0	23	19	35	65	39	36	23	8.2	8.4
9	40	e6.0	3.9	23	19	36	56	38	33	17	7.9	13
10	7.2	e5.8	14	23	19	33	52	41	31	15	7.4	12
11	3.8	e5.8	6.5	21	19	32	297	35	26	15	7.1	20
12	3.1	e6.0	159	20	25	30	435	33	23	14	6.7	22
13	3.2	e6.0	199	24	42	28	124	560	23	35	6.3	9.4
14	2.9	e6.6	62	20	98	28	80	90	22	21	6.2	7.4
15	3.0	e6.4	35	19	33	27	66	45	36	15	6.8	6.3
16	3.6	e6.4	27	19	27	1590	59	38	22	12	6.6	5.5
17	4.1	e6.0	23	19	215	410	2000	35	35	12	6.2	5.2
18	3.6	e6.6	22	22	4700	111	277	32	125	11	7.6	5.2
19	4.1	e6.0	21	20	1190	903	121	34	588	11	8.3	5.0
20	4.7	42	21	20	183	1990	80	37	63	11	7.1	4.7
21	4.3	7.9	21	19	84	331	63	30	40	12	7.8	4.5
22	4.5	5.8	19	20	62	163	56	28	31	10	7.2	4.7
23	4.2	5.1	19	23	52	106	52	195	26	9.4	6.6	5.6
24	3.7	4.5	19	22	141	85	732	45	22	9.1	7.0	79
25	3.8	4.3	18	21	85	73	1300	7060	20	9.1	7.2	53
26	e4.0	3.9	18	20	466	66	213	2400	20	8.9	6.6	21
27	e4.8	3.8	19	19	2330	82	103	6490	130	8.5	8.1	11
28	e4.6	3.9	19	19	249	64	90	3520	117	8.5	8.3	9.6
29	e4.5	3.9	20	19	106	57	69	329	57	21	8.3	10
30	e4.4	4.1	19	20	---	64	56	174	36	22	7.9	8.2
31	e4.3	---	19	19	---	55	---	113	---	14	7.6	---
TOTAL	172.4	222.8	844.9	1128	10298	6739	8133	21782	1945	477.5	286.9	379.7
MEAN	5.56	7.43	27.3	36.4	355	217	271	703	64.8	15.4	9.25	12.7
MAX	40	42	199	293	4700	1990	2000	7060	588	35	48	79
MIN	2.9	3.8	3.9	18	19	27	52	28	20	8.5	6.2	4.5
CFSM	.04	.06	.20	.27	2.65	1.62	2.02	5.24	.48	.11	.07	.09
IN.	.05	.06	.23	.31	2.86	1.87	2.26	6.05	.54	.13	.08	.11

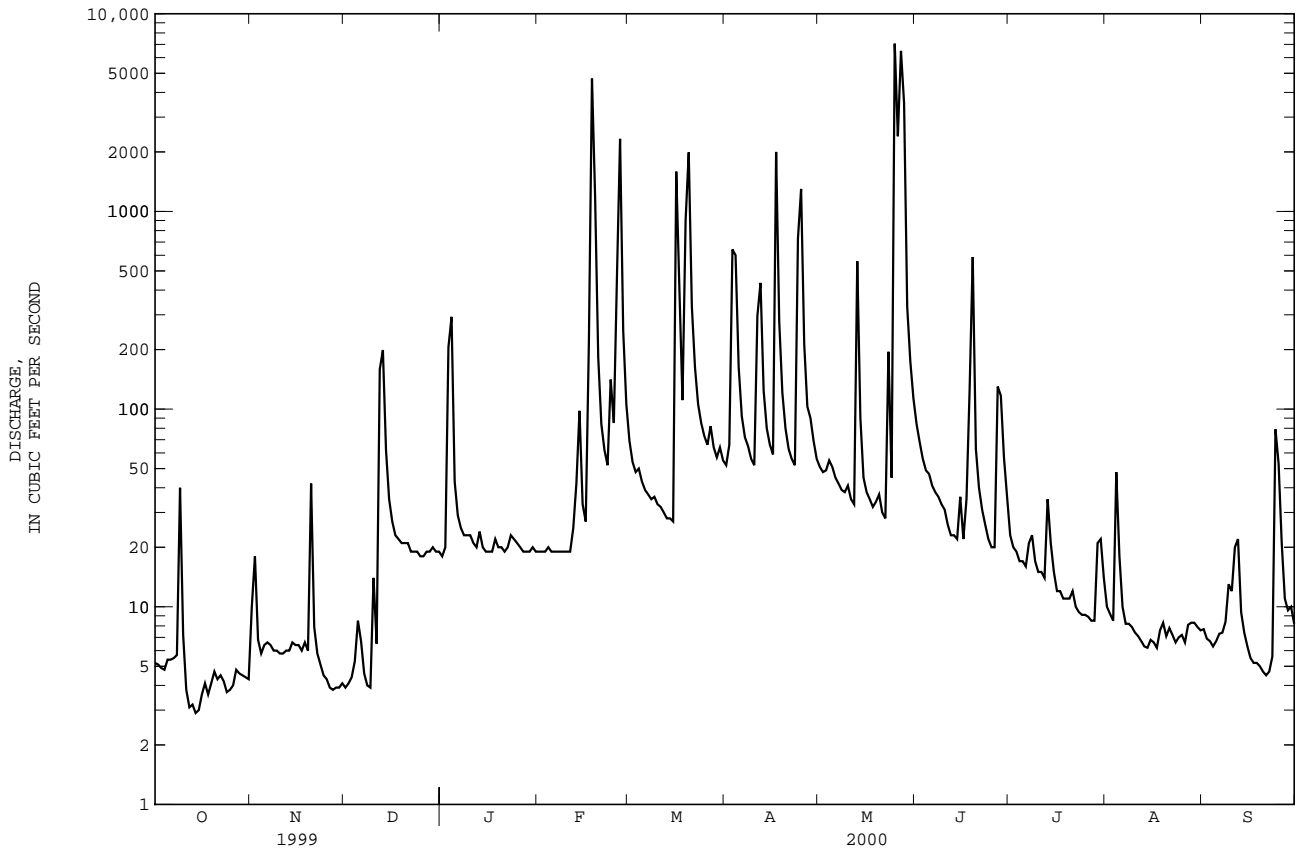
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2000, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	45.3	151	313	224	408	285	233	239	129	67.5	44.5	24.9						
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	27.4	65.5	61.7	21.6	12.4	3.88	4.95	2.40	2.36						
(WY)	1988	2000	1996	1987	1996	1995	1986	1988	1988	1986	1983	1983						

03610200 CLARKS RIVER AT ALMO, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1983 - 2000	
ANNUAL TOTAL	53970.2		52409.2			
ANNUAL MEAN	148		143		179	
HIGHEST ANNUAL MEAN					367 1989	
LOWEST ANNUAL MEAN					69.8 1987	
HIGHEST DAILY MEAN	7520	Jan 23	7060	May 25	14000	Mar 2 1997
LOWEST DAILY MEAN	2.9	Oct 14	2.9	Oct 14	1.6	Aug 29 1983
ANNUAL SEVEN-DAY MINIMUM	3.4	Oct 12	3.4	Oct 12	1.7	Aug 31 1983
INSTANTANEOUS PEAK FLOW			10000	May 25	23300	Mar 2 1997
INSTANTANEOUS PEAK STAGE			16.06	May 25	18.35	Mar 2 1997
INSTANTANEOUS LOW FLOW			2.6	Oct 13		
ANNUAL RUNOFF (CFSM)	1.10		1.07		1.34	
ANNUAL RUNOFF (INCHES)	14.98		14.55		18.17	
10 PERCENT EXCEEDS	211		146		311	
50 PERCENT EXCEEDS	25		20		31	
90 PERCENT EXCEEDS	5.0		4.8		5.4	

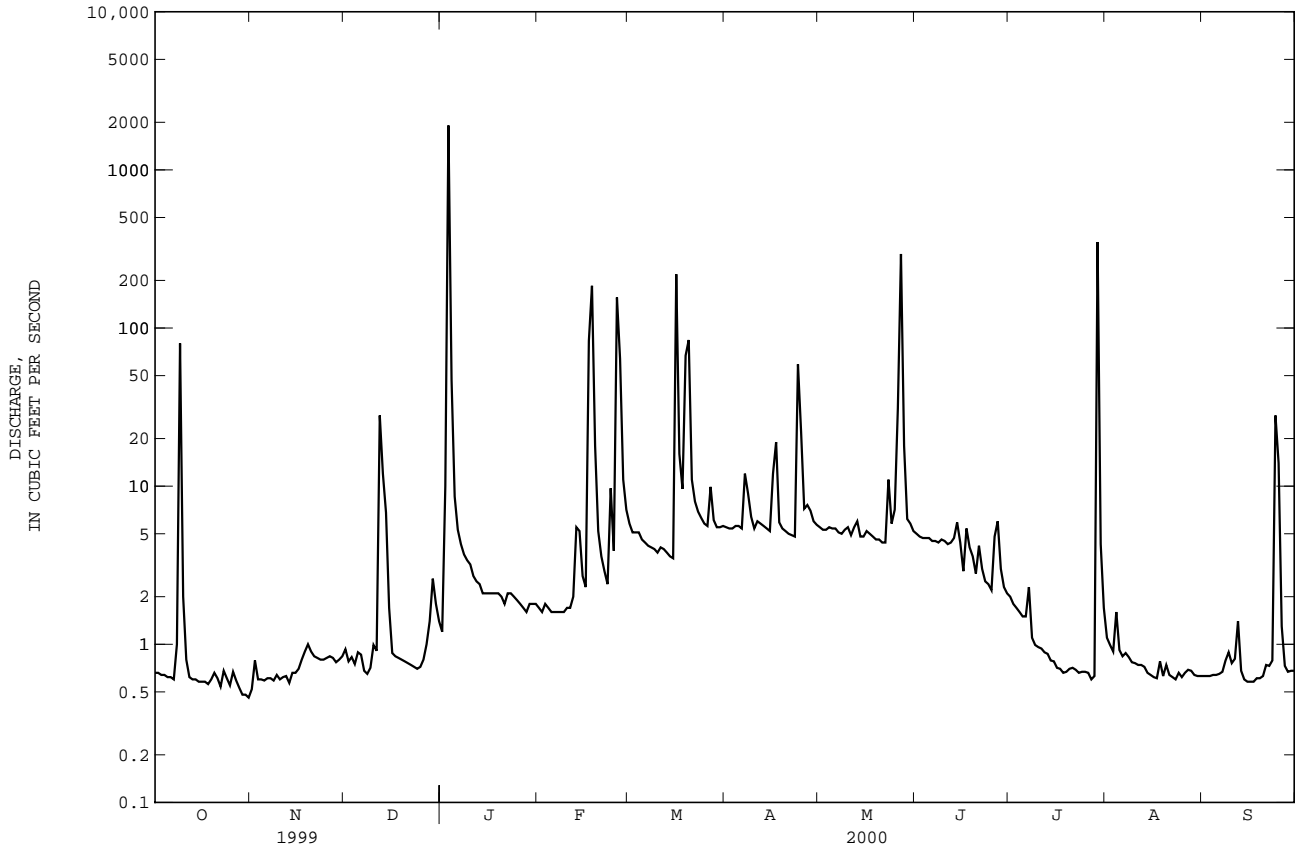
e Estimated



03611260 MASSAC CREEK NEAR PADUCAH, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1972 - 2000	
ANNUAL TOTAL	3647.14		4718.32		17.2	
ANNUAL MEAN	9.99		12.9		37.9	
HIGHEST ANNUAL MEAN					6.54	
LOWEST ANNUAL MEAN					1910	
HIGHEST DAILY MEAN	617	Jan 22	1910	Jan 3	1910	Jan 3 2000
LOWEST DAILY MEAN	.46	Oct 31	.46	Oct 31	.09	Nov 13 1971
ANNUAL SEVEN-DAY MINIMUM	.53	Oct 26	.53	Oct 26	.10	Nov 10 1971
INSTANTANEOUS PEAK FLOW			4430		5990	
INSTANTANEOUS PEAK STAGE			14.78		15.86	
INSTANTANEOUS LOW FLOW					.06	
ANNUAL RUNOFF (CFSM)	.68		.88		1.18	
ANNUAL RUNOFF (INCHES)	9.29		12.02		16.04	
10 PERCENT EXCEEDS	12		7.3		28	
50 PERCENT EXCEEDS	1.5		1.8		2.2	
90 PERCENT EXCEEDS	.60		.62		.44	

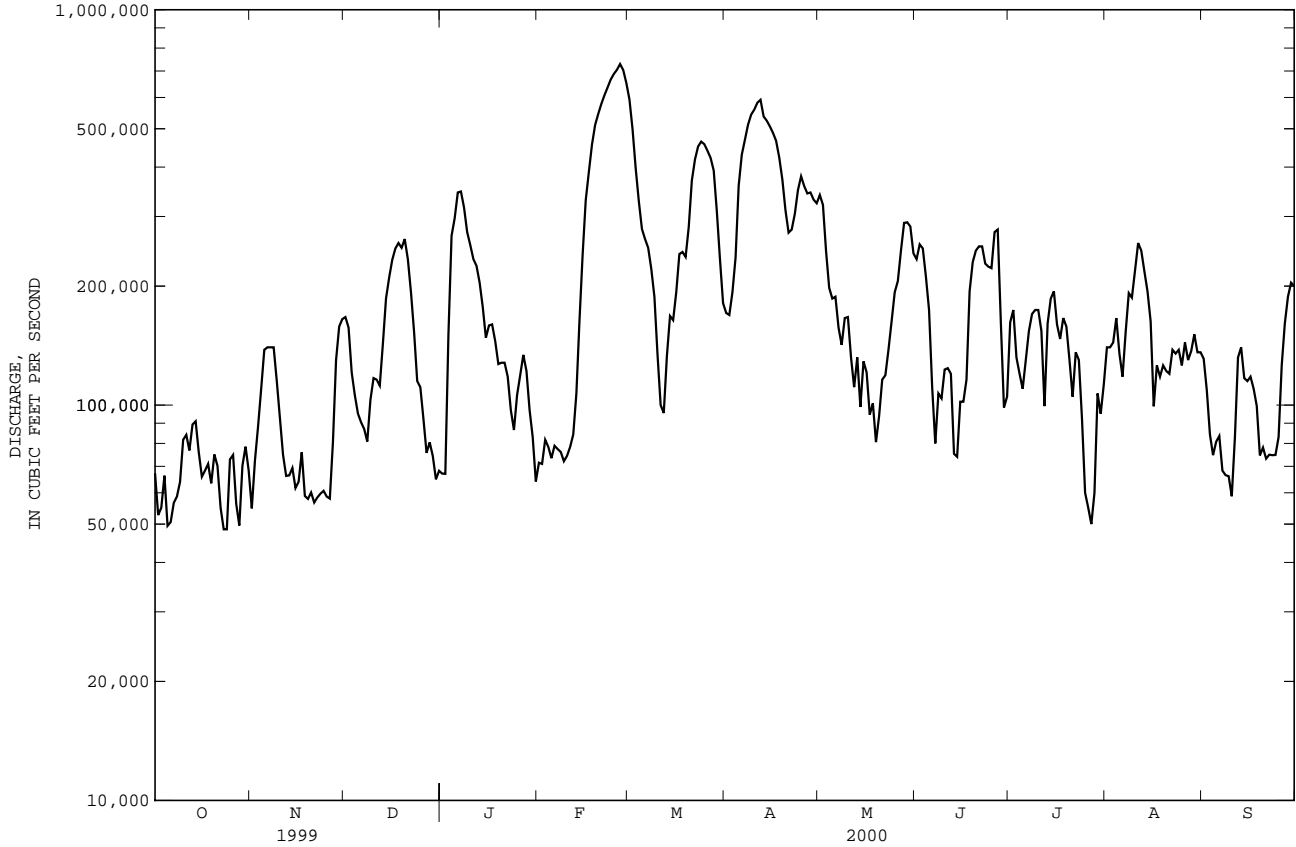
e Estimated



03611500 OHIO RIVER AT METROPOLIS, IL--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1928 - 2000	
ANNUAL TOTAL	81087000		67422500		276400	
ANNUAL MEAN	222200		184200		436600	
HIGHEST ANNUAL MEAN					120300	
LOWEST ANNUAL MEAN					1850000	
HIGHEST DAILY MEAN	961000	Feb 1	729000	Feb 27	1850000	Feb 1 1937
LOWEST DAILY MEAN	30500	Sep 26	48500	Oct 23	15000	Jul 20 1930
ANNUAL SEVEN-DAY MINIMUM	34900	Sep 20	55600	Oct 2	16600	Jul 20 1930
INSTANTANEOUS PEAK FLOW			732000	Feb 27	1850000	Feb 1 1937
INSTANTANEOUS PEAK STAGE			43.26	Feb 27	66.60	Feb 2 1937
10 PERCENT EXCEEDS	567000		382000		637000	
50 PERCENT EXCEEDS	128000		136000		190000	
90 PERCENT EXCEEDS	54800		66400		68000	

e Estimated



BAYOU CREEK BASIN

03611800 BAYOU CREEK NEAR HEATH, KY

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

DRAINAGE AREA.--6.55 mi².

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

GAGE.--Water-stage recorder. 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 3	1645	*1,620	*8.96	Jul 29	1230	977	6.30

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	.21	.18	.19	.30	.36	1.5	.71	.51	.33	.36	.28	.17
2	.20	.19	.18	.96	.37	1.1	.82	.39	.27	.33	.21	.17
3	.21	.19	.21	529	.38	1.1	.85	.37	.21	.32	.19	.15
4	.22	.20	.19	11	.37	.97	.69	.50	.22	.32	.19	.16
5	.19	.20	.34	3.0	.32	.76	.59	3.4	.23	.32	.19	.19
6	.20	.23	.25	1.6	.35	.59	.57	2.3	.20	.41	.19	.23
7	.18	.24	.22	.85	.40	.51	3.6	.87	.20	.41	.23	.26
8	.41	.22	.18	.57	.39	.48	3.5	.54	.20	.23	.20	.34
9	8.8	.21	.23	.49	.45	.43	1.3	.79	.18	.23	.18	.32
10	.46	.19	.35	.39	.42	.37	.87	1.5	.18	.24	.18	.32
11	.16	.15	.22	.49	.43	.57	1.9	.46	.19	.22	.18	.32
12	.18	.16	12	.47	.65	.51	1.7	.34	.18	.19	.20	.29
13	.20	.17	19	.36	3.0	.43	1.2	.51	.18	.18	.31	.27
14	.24	.18	6.5	.32	1.9	.39	.97	.28	.32	.17	.31	.28
15	.23	.17	.78	.33	.59	.39	.76	.23	.50	.17	.32	.27
16	.18	.17	.36	.34	.39	62	27	.22	.45	.17	.29	.29
17	.19	.19	.32	.30	26	5.4	23	.22	.63	.18	.24	.31
18	.20	.15	.30	.33	105	3.0	3.1	.20	79	.18	.43	.31
19	.19	.22	.30	.30	11	36	1.8	.27	6.3	.18	.18	.26
20	.18	.24	.30	.28	3.0	47	1.3	.30	2.1	.16	.32	.32
21	.19	.21	.30	.26	1.8	4.9	.79	.31	2.8	.18	.19	.44
22	.18	.22	.29	.31	1.3	2.6	.67	.32	1.5	.13	.19	.47
23	.18	.19	.30	.30	1.1	1.9	.59	.91	.82	.12	.18	.53
24	.19	.20	.30	e.30	7.1	1.7	27	.27	.83	.13	.28	7.5
25	.21	.24	.30	e.28	2.3	1.4	11	.58	.71	.14	.19	7.0
26	.21	.27	.31	e.26	97	1.2	2.4	8.4	.53	.12	.22	.42
27	.20	.26	.34	e.24	25	3.7	2.9	38	.78	.11	.27	.17
28	.19	.27	.34	e.24	4.0	1.7	2.8	6.0	.56	.08	.21	.16
29	.19	.24	.31	e.30	2.2	1.2	1.3	1.6	.41	141	.19	.20
30	.18	.26	.32	.35	---	1.2	.72	.84	.37	2.6	.17	.22
31	.19	---	.31	.37	---	.84	---	.45	---	.57	.18	---
TOTAL	15.14	6.21	45.84	554.89	297.57	185.84	126.40	71.88	101.38	150.15	7.09	22.34
MEAN	.49	.21	1.48	17.9	10.3	5.99	4.21	2.32	3.38	4.84	.23	.74
MAX	8.8	.27	19	529	105	62	27	38	79	141	.43	7.5
MIN	.16	.15	.18	.24	.32	.37	.57	.20	.18	.08	.17	.15
CFSM	.07	.03	.23	2.73	1.57	.92	.64	.35	.52	.74	.03	.11
IN.	.09	.04	.26	3.15	1.69	1.06	.72	.41	.58	.85	.04	.13

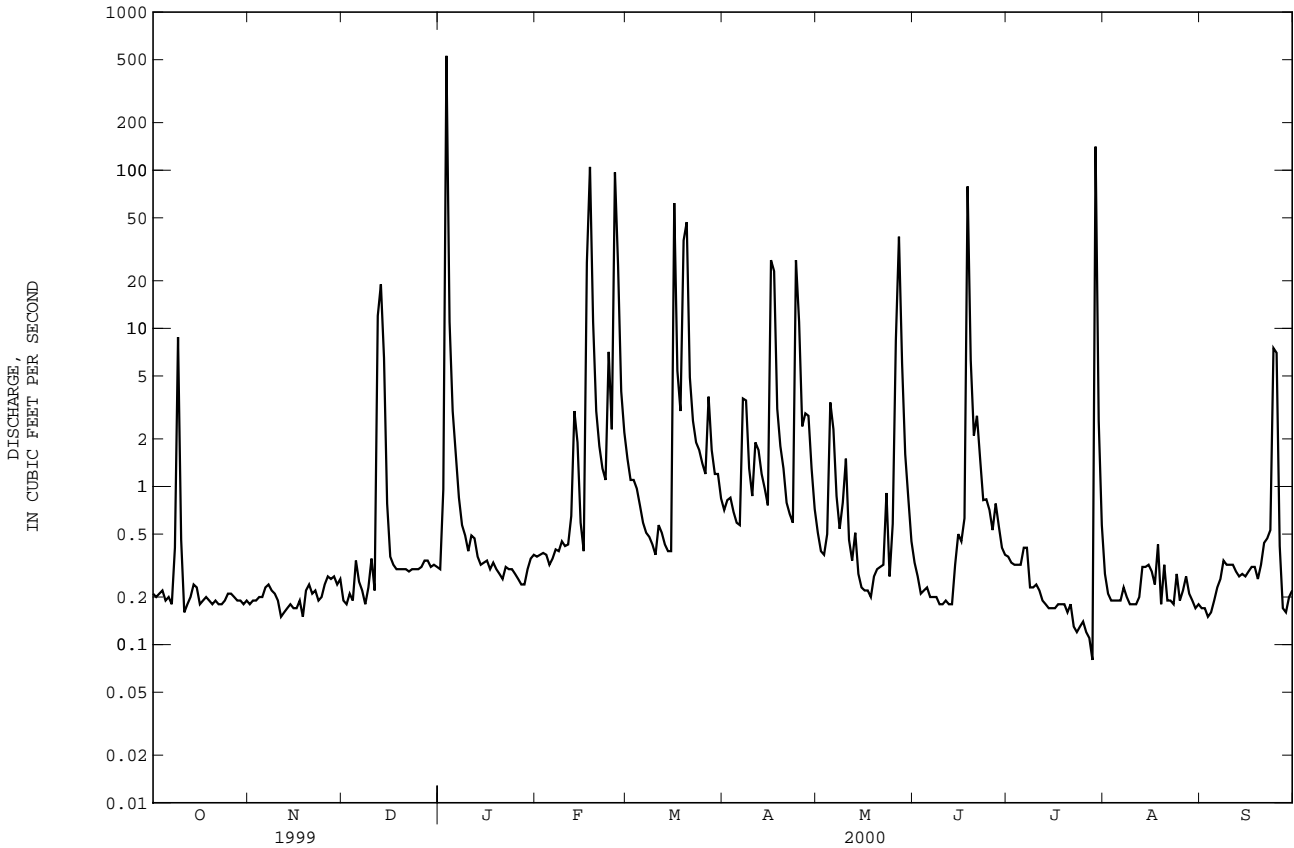
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2000, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	1.18	4.64	8.84	11.1	10.3	10.5	8.66	7.90	4.93	2.63
MAX	3.48	22.8	37.2	24.4	15.6	34.9	16.6	16.5	16.6	7.59
(WY)	1999	1997	1991	1999	1991	1997	1994	1995	1998	1998
MIN	.21	.21	.50	1.69	.60	3.26	4.21	.56	.17	.089
(WY)	1998	2000	1998	1998	1996	1995	2000	1994	1994	1993

03611800 BAYOU CREEK NEAR HEATH, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1991 - 2000	
ANNUAL TOTAL	1844.68		1584.73		6.16	
ANNUAL MEAN	5.05		4.33		10.0	
HIGHEST ANNUAL MEAN					3.85	
LOWEST ANNUAL MEAN					710	
HIGHEST DAILY MEAN	395	Jan 22	529	Jan 3		Mar 1 1997
LOWEST DAILY MEAN	.15	Nov 11	.08	Jul 28	.05	Sep 7 1991
ANNUAL SEVEN-DAY MINIMUM	.17	Nov 10	.12	Jul 22	.06	Jul 2 1993
INSTANTANEOUS PEAK FLOW			1620		1870	
INSTANTANEOUS PEAK STAGE			8.96		9.90	
ANNUAL RUNOFF (CFSM)	.77		.66		.94	
ANNUAL RUNOFF (INCHES)	10.48		9.00		12.77	
10 PERCENT EXCEEDS	8.3		3.0		5.4	
50 PERCENT EXCEEDS	.31		.32		.43	
90 PERCENT EXCEEDS	.19		.18		.14	

e Estimated



BAYOU CREEK BASIN

03611850 BAYOU CREEK NEAR GRAHAMVILLE, KY

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

DRAINAGE AREA.--14.9 mi².

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

GAGE.--Water-stage recorder. 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 3	1715	1,500	11.69	Jul 29	1315	1,070	9.88

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	4.9	5.7	4.0	3.2	3.6	9.5	8.4	8.0	14	11	13	14
2	3.5	5.5	4.6	10	3.4	8.2	8.4	7.8	14	11	12	14
3	3.7	4.4	6.1	763	3.4	8.4	8.8	7.7	14	11	12	13
4	4.1	4.8	5.3	45	3.4	7.9	9.4	9.2	15	11	12	13
5	3.7	5.7	8.4	12	3.2	7.4	9.4	19	14	11	12	14
6	3.4	5.7	5.7	10	3.2	7.2	9.2	13	13	11	12	13
7	3.2	5.8	4.9	8.9	3.4	6.7	25	7.8	13	11	12	13
8	6.6	5.6	4.7	7.9	4.5	5.3	23	7.1	13	11	12	14
9	61	3.5	6.2	7.5	4.3	5.2	11	10	13	11	12	14
10	5.4	3.3	9.5	5.1	4.2	4.6	9.5	13	14	10	12	13
11	4.0	2.7	6.7	4.5	4.5	5.8	12	8.9	14	10	12	13
12	4.6	2.8	54	4.5	5.6	5.0	11	7.9	13	11	12	13
13	4.6	2.4	53	5.0	11	4.3	9.2	9.6	13	11	12	13
14	4.3	2.7	20	6.2	6.9	4.3	7.8	8.1	14	11	12	13
15	3.1	3.1	5.7	6.0	3.3	4.4	7.5	8.6	16	11	12	11
16	2.7	3.0	4.8	6.0	2.8	167	39	8.9	14	11	12	9.5
17	3.0	4.7	4.4	6.1	46	25	79	8.7	16	11	12	8.5
18	3.1	4.5	4.4	5.9	291	17	14	8.5	190	11	16	8.3
19	3.1	6.1	4.1	5.8	42	64	9.9	8.4	21	11	14	8.4
20	e3.3	5.6	3.4	6.0	15	146	8.4	8.1	14	11	17	8.2
21	e3.5	4.8	3.0	5.7	11	22	7.9	8.1	15	12	15	8.0
22	e3.7	4.7	3.1	4.8	9.2	16	7.5	7.9	12	12	15	8.7
23	e4.0	4.7	3.1	4.1	9.8	13	7.3	22	11	12	15	10
24	e4.3	4.7	3.0	4.0	30	12	65	10	12	12	17	37
25	4.5	4.5	3.2	3.9	11	11	39	11	11	12	15	48
26	4.2	4.9	4.6	3.9	170	10	12	33	11	11	15	10
27	4.4	4.9	5.2	4.6	83	15	17	119	12	11	16	7.9
28	4.4	3.1	6.1	4.8	17	10	15	29	12	11	15	7.3
29	4.5	2.9	8.9	4.4	11	9.3	9.5	16	12	234	15	6.9
30	3.9	2.8	7.7	4.4	---	9.2	8.4	16	11	19	14	6.2
31	4.2	---	4.2	4.3	---	9.0	---	15	---	14	14	---
TOTAL	180.9	129.6	272.0	977.5	816.7	649.7	508.5	475.3	581	578	418	390.9
MEAN	5.84	4.32	8.77	31.5	28.2	21.0	17.0	15.3	19.4	18.6	13.5	13.0
MAX	61	6.1	54	763	291	167	79	119	190	234	17	48
MIN	2.7	2.4	3.0	3.2	2.8	4.3	7.3	7.1	11	10	12	6.2
CFSM	.39	.29	.59	2.12	1.89	1.41	1.14	1.03	1.30	1.25	.90	.87
IN.	.45	.32	.68	2.44	2.04	1.62	1.27	1.19	1.45	1.44	1.04	.98

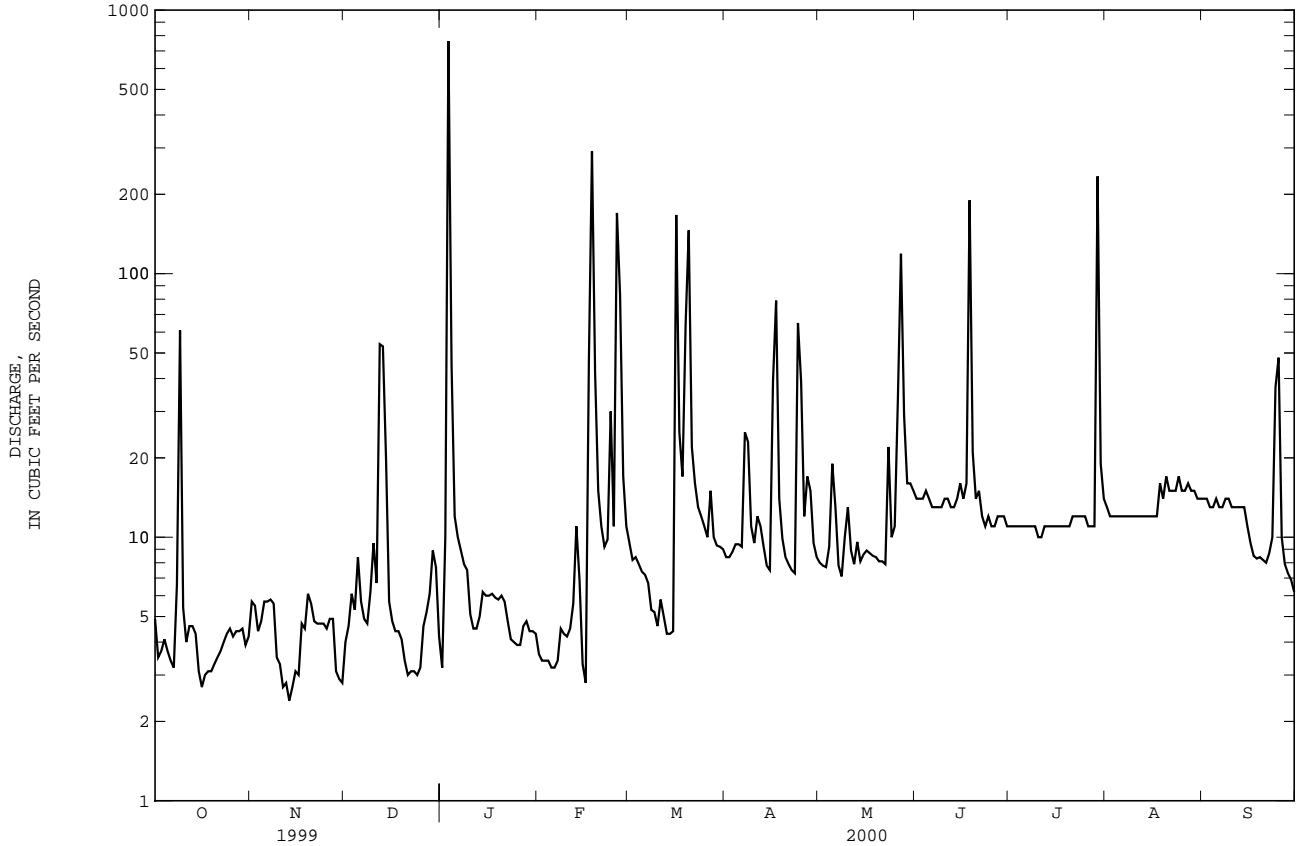
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2000, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000		
MEAN	9.23	16.9	23.8	30.0	28.6	30.2	28.0	23.6	18.9	12.9	10.9	8.29
MAX	20.0	56.7	60.7	55.8	37.9	77.5	41.0	38.4	32.4	24.3	21.4	13.0
(WY)	1997	1997	1991	1999	1997	1997	1994	1996	1998	1998	1998	2000
MIN	5.57	4.32	6.66	10.1	6.13	15.0	17.0	9.30	7.56	6.37	6.51	5.11
(WY)	1998	2000	1996	1998	1996	1995	2000	1994	1991	1994	1993	1997

03611850 BAYOU CREEK NEAR GRAHAMVILLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1991 - 2000	
ANNUAL TOTAL	6501.4		5978.1		20.3	
ANNUAL MEAN	17.8		16.3		30.9	
HIGHEST ANNUAL MEAN					16.3	
LOWEST ANNUAL MEAN					16.3	
HIGHEST DAILY MEAN	713	Jan 22	763	Jan 3	923	Mar 1 1997
LOWEST DAILY MEAN	2.4	Nov 13	2.4	Nov 13	1.9	Oct 9 1996
ANNUAL SEVEN-DAY MINIMUM	2.9	Nov 10	2.9	Nov 10	2.7	Oct 2 1997
INSTANTANEOUS PEAK FLOW			1500	Jan 3	1750	Mar 1 1997
INSTANTANEOUS PEAK STAGE			11.69	Jan 3	12.60	Mar 1 1997
ANNUAL RUNOFF (CFSM)	1.20		1.10		1.36	
ANNUAL RUNOFF (INCHES)	16.23		14.93		18.48	
10 PERCENT EXCEEDS	25		17		25	
50 PERCENT EXCEEDS	9.5		9.2		8.7	
90 PERCENT EXCEEDS	3.7		3.6		4.6	

e Estimated



BAYOU CREEK BASIN

03611900 LITTLE BAYOU CREEK NEAR GRAHAMVILLE, KY

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

DRAINAGE AREA.--5.78 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 324.80 ft above 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 3	1900	*947	*9.62	No other peak greater than base discharge.			

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	.82	e.72	e.58	.56	.71	3.0	.97	1.2	1.2	.71	.75	.84
2	.69	e.74	e.56	1.8	.71	3.2	1.0	1.2	1.1	.73	.72	.86
3	.72	e.76	e.52	385	.70	2.5	1.1	1.3	1.1	.74	.70	.85
4	.80	e.80	e.56	23	.70	1.3	.97	1.8	1.1	.74	.77	.89
5	.77	e.84	e.90	2.3	.67	1.1	1.0	25	1.1	.74	.74	.88
6	.78	e.90	e.72	1.8	.68	1.3	1.1	12	1.1	.74	.75	.90
7	.80	e.94	e.64	1.7	.64	1.2	8.5	3.3	1.1	.77	.79	.93
8	1.1	e.92	e.60	.72	.64	.92	9.3	1.9	1.1	.72	.79	1.2
9	20	e.84	e.80	.70	.64	.90	2.0	2.6	1.1	.70	.78	1.0
10	1.0	e.78	e9.0	1.2	.66	.84	1.3	4.4	1.1	.73	.77	1.0
11	.72	e.72	7.4	1.8	.67	1.2	2.2	1.6	1.1	.73	.76	1.1
12	.72	e.66	22	1.7	1.2	1.2	1.8	1.3	1.1	.75	.78	.99
13	.73	e.62	13	1.4	3.8	.91	1.3	2.5	1.1	1.2	.78	1.0
14	e.72	e.66	3.7	.61	2.2	.87	1.1	1.3	1.2	1.2	.77	1.0
15	e.70	e.72	.73	.65	.87	.87	1.0	1.3	3.2	.77	.78	.97
16	e.70	e.68	.49	.69	.72	69	4.7	1.3	1.9	.73	.80	1.5
17	e.68	e.66	.45	.70	16	11	25	1.1	2.5	.76	.82	1.0
18	e.72	e.70	.42	.98	130	4.4	5.0	1.1	60	.74	2.0	.85
19	e.74	e.80	.48	.98	27	26	2.4	1.2	5.9	.76	.82	.87
20	e.70	e.74	.48	.61	5.7	69	1.6	1.1	1.3	.76	1.4	.99
21	e.70	e.70	.47	.60	2.6	8.4	1.4	1.2	2.6	.77	.83	1.2
22	e.68	e.66	.47	.73	1.7	3.6	1.3	1.2	1.1	.80	.78	1.2
23	e.68	e.62	.50	.74	1.4	2.1	1.3	10	.81	.79	.79	1.2
24	e.72	e.58	.52	e.62	8.7	1.6	27	1.9	.93	.77	1.4	7.2
25	e.80	e.56	.56	e.54	3.7	1.3	24	2.8	.80	.75	.81	8.3
26	e.76	e.60	.53	e.52	64	1.2	4.1	22	.77	.71	.80	1.1
27	e.74	e.64	.52	e.50	46	4.9	4.5	61	1.1	.74	.97	.82
28	e.72	e.62	.55	e.50	6.8	2.8	5.3	17	.84	.76	.87	.81
29	e.70	e.58	.63	e1.2	3.1	1.5	2.1	3.5	.76	63	.83	.83
30	e.68	e.60	.60	.77	---	1.2	1.4	1.9	.73	3.7	.81	.85
31	e.70	---	.58	.76	---	1.0	---	1.3	---	.94	.82	---
TOTAL	42.49	21.36	69.96	436.38	332.91	230.31	145.74	192.3	100.84	89.45	26.98	43.13
MEAN	1.37	.71	2.26	14.1	11.5	7.43	4.86	6.20	3.36	2.89	.87	1.44
MAX	20	.94	22	385	130	69	27	61	60	63	2.0	8.3
MIN	.68	.56	.42	.50	.64	.84	.97	1.1	.73	.70	.70	.81
CFSM	.24	.12	.39	2.44	1.99	1.29	.84	1.07	.58	1.50	.15	.25
IN.	.27	.14	.45	2.81	2.14	1.48	.94	1.24	.65	.58	.17	.28

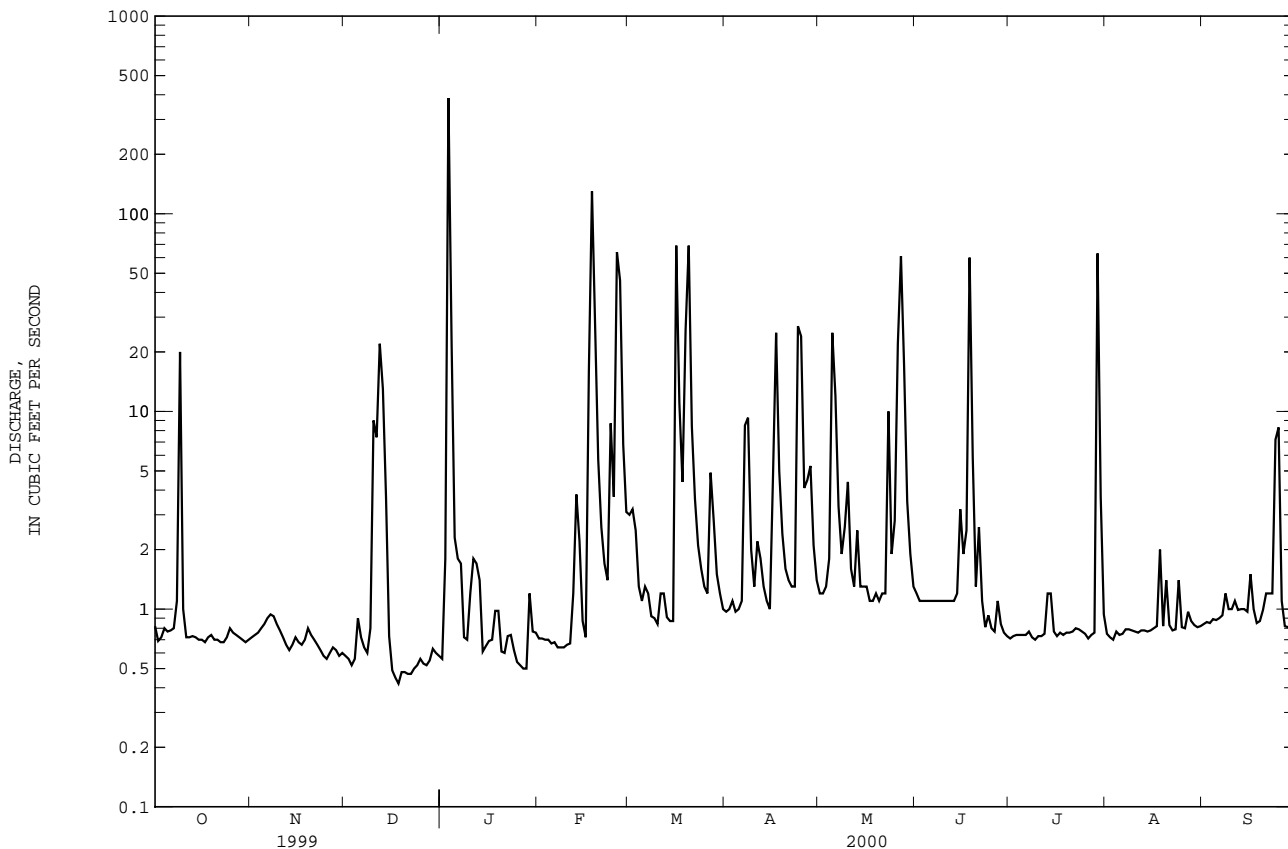
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2000, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000		
MEAN	2.25	5.08	8.59	11.0	9.64	10.7	9.69	7.97	4.65	2.56	2.03	1.47
MAX	4.25	18.3	33.5	20.4	17.0	32.5	19.2	13.5	12.4	7.87	8.11	2.98
(WY)	1997	1997	1991	1999	1991	1997	1994	1997	1998	1996	1998	1993
MIN	1.28	.71	1.26	1.67	1.02	3.79	4.86	1.48	1.04	.82	.72	.78
(WY)	1998	2000	1996	1998	1996	1995	2000	1994	1994	1991	1996	1998

03611900 LITTLE BAYOU CREEK NEAR GRAHAMVILLE, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1991 - 2000	
ANNUAL TOTAL	1979.36		1731.85			
ANNUAL MEAN	5.42		4.73		6.36	
HIGHEST ANNUAL MEAN					10.1	1997
LOWEST ANNUAL MEAN					4.35	1996
HIGHEST DAILY MEAN	286	Jan 22	385	Jan 3	506	Mar 1 1997
LOWEST DAILY MEAN	.42	Dec 18	.42	Dec 18	.02	May 25 1995
ANNUAL SEVEN-DAY MINIMUM	.47	Dec 16	.47	Dec 16	.42	Dec 29 1997
INSTANTANEOUS PEAK FLOW			947	Jan 3	1300	Mar 1 1997
INSTANTANEOUS PEAK STAGE			9.62	Jan 3	11.26	Mar 1 1997
ANNUAL RUNOFF (CFSM)	.94		.82		1.10	
ANNUAL RUNOFF (INCHES)	12.74		11.15		14.94	
10 PERCENT EXCEEDS	9.3		5.4		8.4	
50 PERCENT EXCEEDS	1.1		.88		1.2	
90 PERCENT EXCEEDS	.68		.62		.70	

e Estimated



OHIO RIVER MAIN STEM

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

(National stream-quality accounting network station)

WATER-QUALITY RECORDS

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

DRAINAGE AREA.--203,100 mi², approximately

PERIOD OF RECORD.--Water years 1955 to current 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 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV											
23...	1230	ENVIRONMENTAL	65400	.055	333	7.7	15.0	4.2	9.9	99	100
DEC											
16...	1220	ENVIRONMENTAL	231000	.066	442	7.7	9.0	25	10.6	92	140
16...	1228	FIELD BLANK	--	--	--	--	--	--	--	--	--
FEB											
25...	1220	ENVIRONMENTAL	666000	.117	265	7.3	8.0	170	10.9	92	98
MAR											
22...	1130	ENVIRONMENTAL	247000	.101	302	7.5	11.5	60	10.2	93	120
APR											
05...	1230	ENVIRONMENTAL	361000	.073	249	7.5	14.0	28	11.9	116	95
05...	1240	REPLICATE	--	.075	--	--	--	36	--	--	96
26...	1220	ENVIRONMENTAL	353000	.101	274	7.4	14.5	30	9.4	93	120
26...	1228	FIELD BLANK	--	--	--	--	--	--	--	--	--
MAY											
10...	1230	ENVIRONMENTAL	156000	.067	295	7.6	20.0	5.9	--	--	120
24...	1240	ENVIRONMENTAL	90300	.088	357	7.7	23.0	26	8.8	105	140
24...	1248	FIELD BLANK	--	--	--	--	--	--	--	--	--
JUN											
12...	1650	ENVIRONMENTAL	126000	.085	388	7.7	26.5	6.0	8.4	105	150
12...	1658	FIELD BLANK	--	--	--	--	--	--	--	--	M
28...	1210	ENVIRONMENTAL	134000	.100	338	7.3	27.0	29	5.7	72	130
JUL											
12...	1040	ENVIRONMENTAL	66700	.096	327	7.2	29.0	24	5.8	76	120
12...	1050	REPLICATE	--	.099	--	--	--	21	--	--	120
AUG											
14...	1720	ENVIRONMENTAL	174000	.108	316	7.6	28.5	27	5.8	76	120
SEP											
12...	1300	ENVIRONMENTAL	126000	.085	293	7.5	27.0	1.0	6.9	88	100

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, TOTAL (MG/L AS N) (00600)
NOV 23...	26	9.0	25	2.9	77	63	27	47	.19	3.8	186	.96
DEC 16...	37	11	34	3.5	91	75	40	82	.24	3.7	280	1.7
16...	.003	<.001	<.025	--	--	--	--	--	--	<.020	--	--
FEB 25...	29	6.4	12	2.5	76	62	17	34	.12	4.4	157	2.7
MAR 22...	33	8.0	14	2.0	81	67	19	43	.12	4.2	181	2.0
APR 05...	28	6.0	11	1.8	89	73	13	27	.15	2.9	149	1.4
05...	28	6.0	11	1.8	86	71	12	27	.15	2.9	151	1.4
26...	33	8.1	11	2.2	84	69	16	41	<.10	5.3	174	1.9
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 10...	35	8.4	11	1.9	100	82	13	41	.13	4.0	183	1.3
24...	37	11	14	2.5	104	85	19	51	.11	2.5	205	1.8
24...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 12...	42	12	16	2.5	108	88	21	54	.19	2.8	225	2.7
12...	.015	.002	<.025	--	--	--	--	--	--	<.020	--	--
28...	35	9.7	14	3.0	100	82	18	44	<.10	4.5	199	2.6
JUL 12...	34	9.7	13	2.9	91	75	16	42	.15	4.1	189	2.2
12...	34	9.6	13	2.9	--	--	17	42	.14	4.3	200	2.2
AUG 14...	31	9.4	14	2.9	86	70	15	44	.22	5.1	188	1.3
SEP 12...	28	8.4	14	3.0	87	71	15	37	.16	3.7	160	.89
DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, TOTAL (MG/L AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)
NOV 23...	.81	.32	.17	.014	.582	.057	.568	.23	.38	.062	.042	.07
DEC 16...	1.5	.50	.28	.014	1.07	.130	1.06	.41	.63	.149	.052	.10
16...	--	--	--	<.001	<.005	<.002	--	--	--	--	--	--
FEB 25...	1.7	1.3	.25	.013	1.35	.079	1.33	.33	1.4	.549	.044	.12
MAR 22...	1.6	.67	.29	.024	1.27	.045	1.25	.34	.72	.216	.034	.09
APR 05...	1.1	.44	.21	.013	.891	.026	.878	.23	.46	.180	.036	.10
05...	1.1	.50	.20	.014	.906	.025	.892	.23	.52	.172	.037	.11
26...	1.6	.51	.18	.012	1.35	.020	1.34	.20	.53	.161	.038	.10
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 10...	1.2	--	--	.013	.954	<.020	.941	.20	.36	.074	.024	.05
24...	1.6	--	--	.017	1.33	<.020	1.31	.26	.49	.103	.030	.06
24...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 12...	2.6	.41	.26	.011	2.31	.024	2.30	.28	.43	.078	.037	.08
12...	--	--	--	<.001	<.005	.002	--	--	--	--	--	--
28...	2.4	--	--	.019	2.08	<.020	2.06	.31	.48	.128	.068	.16
JUL 12...	2.0	.44	.29	.016	1.73	.026	1.71	.32	.47	.110	.066	.16
12...	2.0	.47	.26	.017	1.72	.029	1.70	.29	.50	.110	.067	.16
AUG 14...	1.1	--	--	.015	.825	<.020	.810	.31	.46	.125	.065	.16
SEP 12...	.74	--	--	.089	.492	<.020	.403	.25	.40	.106	.060	.16

OHIO RIVER MAIN STEM

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	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)
NOV 23...	.07	2.5	.05	.022	--	--	<2	--	--	63	--	--
DEC 16...	.17	4.7	.05	.033	--	--	<2	--	--	83	--	--
16...	--	--	--	<.001	<.30	<.20	--	<.20	<.20	<2.0	<.30	<.20
FEB 25...	.10	5.9	.04	.038	11	<1.0	E1	32	<1.0	34	<1.0	<1.0
MAR 22...	.06	5.5	.08	.030	--	--	<2	--	--	33	--	--
APR 05...	.03	3.9	.04	.034	--	--	<2	--	--	23	--	--
05...	.03	3.9	.05	.035	--	--	<2	--	--	24	--	--
26...	.03	5.9	.04	.032	7.9	<1.0	E1	30	<1.0	31	<1.0	<.80
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 10...	--	4.2	.04	.017	--	--	<2	--	--	35	--	--
24...	--	5.8	.06	.020	--	--	<2	--	--	56	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 12...	.03	10	.04	.027	--	--	E1	--	--	49	--	--
12...	M	--	--	<.001	2.7	<.20	--	<.20	<.20	<2.0	<.30	<.20
28...	--	9.1	.06	.051	8.5	<1.0	<2	38	<1.0	37	<1.0	<.80
JUL 12...	.03	7.6	.05	.051	--	--	<2	--	--	50	--	--
12...	.04	7.5	.06	.051	--	--	E1	--	--	52	--	--
AUG 14...	--	3.6	.05	.051	4.6	<1.0	E1	32	<1.0	56	<1.0	<.80
SEP 12...	--	1.8	.29	.051	--	--	E2	--	--	58	--	--
DATE	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)	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)	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)
NOV 23...	--	--	22	--	7	--	--	--	<2	--	150	--
DEC 16...	--	--	<10	--	8	--	--	--	<2	--	221	--
16...	<.20	<.20	<3.0	<.30	--	<.10	<.20	<.50	--	<.20	<.10	<.10
FEB 25...	<1.0	1.4	19	<1.0	E4	7.4	1.6	1.7	<2	<1.0	134	--
MAR 22...	--	--	12	--	E2	--	--	--	<2	--	150	--
APR 05...	--	--	<10	--	<4	--	--	--	<2	--	112	--
05...	--	--	<10	--	E2	--	--	--	<2	--	112	--
26...	<1.0	1.6	20	<1.0	E3	<1.0	1.6	<1.0	<2	<1.0	158	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 10...	--	--	<10	--	E3	--	--	--	<2	--	157	--
24...	--	--	E6.2	--	4	--	--	--	<2	--	174	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 12...	--	--	<10	--	5	--	--	--	<2	--	213	--
12...	<.20	<.20	<3.0	<.30	--	<.10	<.20	<.50	--	<.20	<.10	<.10
28...	<1.0	2.1	<10	<1.0	4	<1.0	2.5	1.6	<2	<1.0	183	--
JUL 12...	--	--	<10	--	E3	--	--	--	E1	--	174	--
12...	--	--	<10	--	E3	--	--	--	<2	--	181	--
AUG 14...	<1.0	1.8	<10	<1.0	4	<1.0	2.8	1.9	<2	<1.0	167	--
SEP 12...	--	--	<10	--	E2	--	--	--	<2	--	129	--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO- CHLOR, WATER, FLTRD REC (UG/L) (49260)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	
	NOV 23...	<10	--	--	2.5	.40	<.002	<.0020	.079	<.0020	<.0020	.0068
DEC 16...	<10	--	--	2.8	.60	<.002	<.0020	.204	<.0020	<.0020	E.0030	
16...	--	<.50	<.20	--	--	--	--	--	--	--	--	
FEB 25...	<10	2.8	<1.0	3.8	4.9	<.002	<.0020	.053	<.0020	<.0020	.0049	
MAR 22...	<10	--	--	3.2	1.5	<.002	E.0320	.319	<.0020	<.0020	.0075	
APR 05...	<10	--	--	2.8	1.4	<.002	<.0020	.065	<.0020	<.0020	.0091	
05...	<10	--	--	2.7	1.4	<.002	.0059	.065	<.0020	<.0020	<.0040	
26...	<10	1.9	<1.0	3.3	1.1	.008	.0868	1.05	<.0020	<.0020	<.0040	
26...	--	--	--	<.33	<.20	<.002	<.0020	<.001	<.0020	<.0020	E.0033	
MAY 10...	<10	--	--	2.6	.67	<.002	.0497	.474	<.0020	<.0020	.0048	
24...	<10	--	--	3.1	1.2	.019	.210	2.56	<.0020	<.0020	.0058	
24...	--	--	--	<.33	<.20	--	--	--	--	--	--	
JUN 12...	<10	--	--	3.2	.56	.037	.244	1.99	<.0020	<.0020	<.0040	
12...	--	.61	<.20	--	--	--	--	--	--	--	--	
28...	<10	3.3	<1.0	3.4	.58	.029	.127	1.45	<.0020	<.0020	E.0033	
JUL 12...	<10	--	--	3.7	.55	.009	.0630	.789	<.0020	<.0020	E.0033	
12...	<10	--	--	3.5	.51	.006	.0609	.760	<.0020	<.0020	E.0030	
AUG 14...	<10	4.1	<1.0	4.3	.80	<.005	.0108	.170	<.0020	<.0020	<.0050	
SEP 12...	<10	--	--	3.1	.53	<.002	.0072	.107	<.0020	<.0020	<.0040	
		DEETHYL										
	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	
NOV 23...	.0089	E.0230	<.002	<.001	<.0030	<.004	<.005	<.004	.018	<.0060	<.004	
DEC 16...	.0089	E.0298	<.002	<.001	<.0030	<.004	<.005	<.004	.030	<.0060	<.004	
16...	--	--	--	--	--	--	--	--	--	--	--	
FEB 25...	.0065	E.0179	<.002	<.001	<.0030	<.004	<.005	<.004	.031	<.0060	<.004	
MAR 22...	.0063	E.0309	E.002	<.001	<.0030	<.004	<.005	<.004	.050	<.0060	<.004	
APR 05...	<.0040	E.0174	<.002	<.001	<.0030	<.004	<.005	<.004	.020	<.0060	<.004	
05...	<.0040	E.0191	<.002	<.001	<.0030	<.004	<.005	<.004	.020	<.0060	<.004	
26...	.0085	E.0580	.006	<.001	<.0030	<.004	<.005	.016	.164	<.0060	<.004	
26...	<.0040	<.0020	<.002	<.001	<.0030	<.004	<.005	<.004	<.002	<.0060	<.004	
MAY 10...	E.0068	E.0480	E.003	<.001	<.0030	<.004	<.005	<.004	.102	<.0060	<.004	
24...	.0273	E.310	.005	<.001	<.0030	<.004	<.005	.018	.501	<.0060	<.004	
24...	--	--	--	--	--	--	--	--	--	--	--	
JUN 12...	.0358	E.236	.007	<.001	<.0030	<.004	<.005	.017	.499	<.0060	<.004	
12...	--	--	--	--	--	--	--	--	--	--	--	
28...	.0145	E.232	.005	<.001	<.0030	<.004	E.004	.015	.453	<.0060	<.004	
JUL 12...	.0135	E.215	.005	<.001	<.0030	<.004	<.005	.008	.252	<.0060	<.004	
12...	.0135	E.155	.004	<.001	<.0030	<.004	<.005	.007	.230	<.0060	<.004	
AUG 14...	<.0040	E.0602	.004	<.001	<.0030	<.004	<.005	<.004	.035	<.0060	<.004	
SEP 12...	<.0100	E.0433	E.003	<.001	<.0030	<.004	<.005	<.004	.020	<.0060	<.004	

OHIO RIVER MAIN STEM

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)
NOV											
23...	<.0070	E.0160	.0187	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
DEC											
16...	<.0070	E.0149	.0382	<.0020	<.0030	E.0159	<.0020	<.0030	<.0170	<.0040	<.0040
16...	--	--	--	--	--	--	--	--	--	--	--
FEB											
25...	<.0070	<.0180	.0313	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
MAR											
22...	<.0070	<.0180	.194	<.0020	<.0030	<.0250	<.0020	<.0030	<.0170	<.0040	<.0040
APR											
05...	<.0070	E.0142	.0212	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
05...	<.0070	E.0071	.0216	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
26...	<.0070	E.0076	.133	<.0020	<.0030	<.0100	<.0020	<.0030	<.0170	<.0040	<.0040
26...	<.0070	<.0180	<.0050	<.0020	<.0030	<.0075	<.0020	<.0030	<.0170	<.0040	<.0040
MAY											
10...	<.0070	E.0058	.0813	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
24...	<.0070	.0186	.510	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
12...	<.0070	.0208	.131	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
12...	--	--	--	--	--	--	--	--	--	--	--
28...	<.0070	.0213	.204	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
JUL											
12...	<.0070	E.0151	.112	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
12...	<.0070	.0202	.109	E.0011	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
AUG											
14...	<.0070	E.0170	.0290	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
SEP											
12...	<.0070	E.0140	.0191	<.0020	<.0030	<.0030	<.0020	<.0030	<.0170	<.0040	<.0040
DATE	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
NOV											
23...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
DEC											
16...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
16...	--	--	--	--	--	--	--	--	--	--	--
FEB											
25...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
MAR											
22...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
APR											
05...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
05...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
26...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
26...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
MAY											
10...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
24...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
12...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
12...	--	--	--	--	--	--	--	--	--	--	--
28...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
JUL											
12...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
12...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
AUG											
14...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030
SEP											
12...	<.0030	<.0020	<.0020	<.0010	<.0060	<.0040	<.0030	<.0040	<.0050	<.0020	<.0030

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

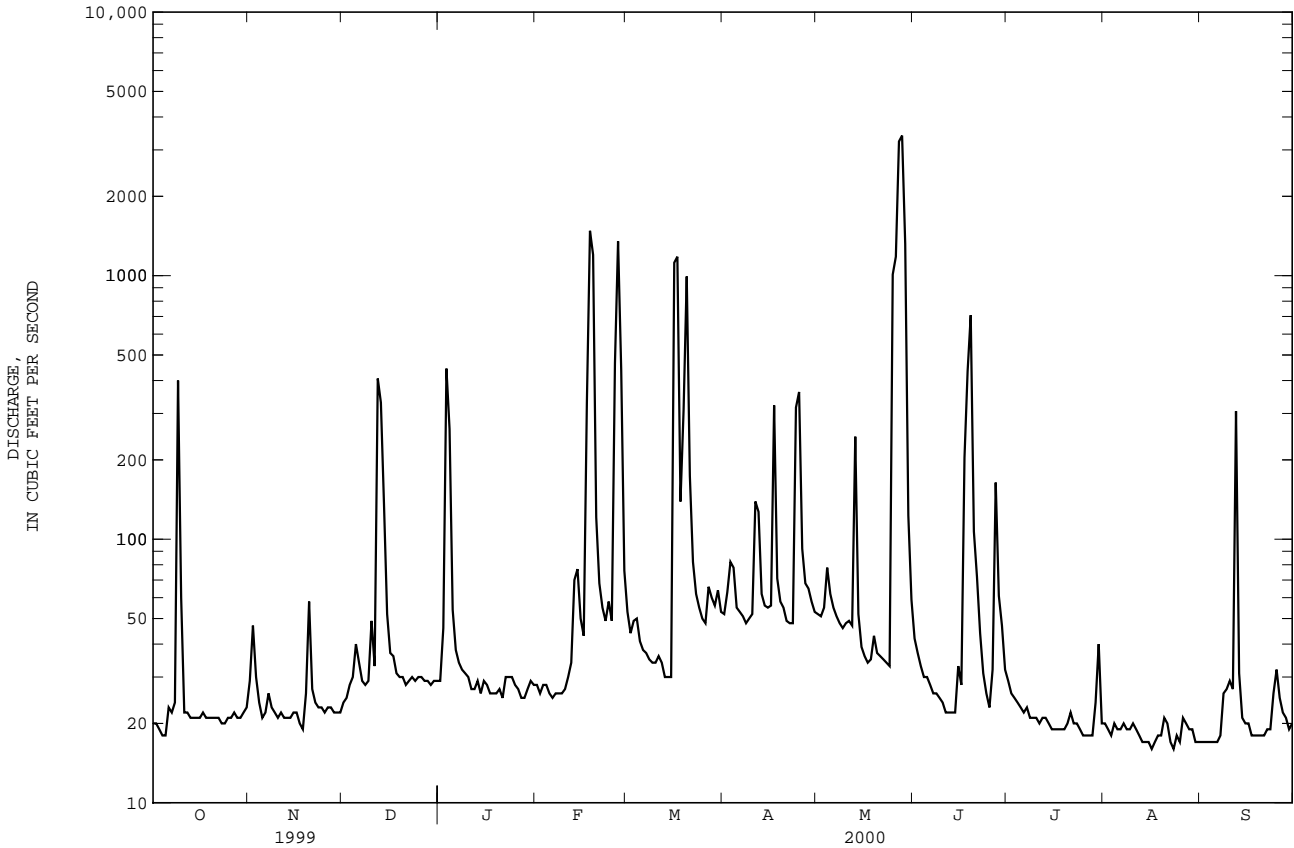
WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV											
23...	<.0040	<.0130	E.0266	<.0070	<.0130	<.0010	<.0020	<.0020	3	530	95
DEC											
16...	<.0040	<.0130	E.0091	<.0070	<.0130	<.0010	<.0020	<.0020	72	44900	92
16...	--	--	--	--	--	--	--	--	--	--	--
FEB											
25...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	381	685000	89
MAR											
22...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	147	98000	93
APR											
05...	<.0040	<.0130	E.0210	<.0070	<.0130	<.0010	<.0020	<.0020	121	118000	83
05...	<.0040	<.0130	E.0162	<.0070	<.0130	<.0010	<.0020	<.0020	--	--	--
26...	<.0040	<.0130	.0141	<.0070	<.0130	<.0010	<.0020	<.0020	91	86700	95
26...	<.0040	<.0130	<.0100	<.0070	<.0130	<.0010	<.0020	<.0020	--	--	--
MAY											
10...	<.0040	<.0130	E.0097	<.0070	<.0130	<.0010	<.0020	<.0020	11	4630	98
24...	<.0040	<.0130	.0144	<.0070	<.0130	<.0010	<.0020	<.0020	56	13700	99
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
12...	<.0040	<.0130	<.0200	<.0070	<.0130	<.0010	<.0020	<.0020	19	6460	99
12...	--	--	--	--	--	--	--	--	--	--	--
28...	<.0040	<.0130	E.0140	<.0070	<.0130	<.0010	<.0020	<.0020	49	17700	100
JUL											
12...	<.0040	<.0130	.0154	<.0070	<.0130	<.0010	<.0020	<.0020	20	3600	99
12...	<.0040	<.0130	E.0140	<.0070	<.0130	<.0010	E.0006	<.0020	--	--	--
AUG											
14...	<.0040	<.0130	.0130	<.0070	<.0130	<.0010	<.0020	<.0020	44	20700	99
SEP											
12...	<.0040	<.0130	.0154	<.0070	<.0130	<.0010	<.0020	<.0020	25	8500	98

07024000 BAYOU DE CHIEN NEAR CLINTON, KY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL TOTAL	27660		35508		103	
ANNUAL MEAN	75.8		97.0		268	
HIGHEST ANNUAL MEAN					18.7	
LOWEST ANNUAL MEAN					1941	
HIGHEST DAILY MEAN	3320	Jan 23	3400	May 28	7150	Jan 2 1966
LOWEST DAILY MEAN	14	Aug 5	16	Aug 16	4.0	May 29 1943
ANNUAL SEVEN-DAY MINIMUM	16	Aug 2	17	Aug 30	4.7	Jun 20 1942
INSTANTANEOUS PEAK FLOW			4200		9460	Jan 2 1966
INSTANTANEOUS PEAK STAGE			16.12		16.48	Mar 2 1997
ANNUAL RUNOFF (CFSM)	1.10		1.41		1.50	
ANNUAL RUNOFF (INCHES)	14.98		19.23		20.38	
10 PERCENT EXCEEDS	117		111		188	
50 PERCENT EXCEEDS	31		28		24	
90 PERCENT EXCEEDS	19		19		11	

e Estimated



DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

Crest-stage partial-record stations

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

Annual maximum discharge at crest-stage partial-record stations during water year 2000

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†, 1993-2000	04-04-00	8.26	2,890
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†, 1993-2000	02-14-00	21.74	1,480

†Operated as a continuous-record gaging station.

Discharge Measurements made at miscellaneous sites during water year 2000.

Station no.	Station name	Location	Period of record	Date	Discharge (ft ³ /s)
CUMBERLAND RIVER BASIN					
03410540	White Oak Creek above Cabin Branch at Co-operative, Ky.	Lat 36°41'27", Long 84°37'24", McCreary County, Hydrologic Unit 05130104, 20 ft upstream of mouth of Cabin Branch, 400 ft downstream of Old Kidds Grocery, and 1,650 ft upstream of Boarding House Hollow.	1999-2000	10-26-99	.01
				12-01-99	.25
				01-04-00	4.68
				02-07-00	1.05
				03-06-00	1.44
				04-03-00	2.56
				05-09-00	1.50
				06-05-00	.30
				07-10-00	.03
				08-08-00	1.58
				09-05-00	.05
				09-26-00	.58
03410542	Cabin Branch at Mouth at Co-operative, Ky	Lat 36°41'28", Long 84°37'25", McCreary County, Hydrologic Unit 05130104, 20 ft upstream of State Highway 1363, 40 ft upstream of Rock Creek, and 1600 ft above Boarding House Hollow.	1999-2000	10-26-99	<.01
				12-01-99	.02
				01-04-00	.79
				02-07-00	.55
				03-06-00	.53
				04-03-00	1.04
				05-09-00	.60
				06-05-00	.12
				07-10-00	.02
				08-08-00	.49
				09-05-00	.02
				09-26-00	.08
03410545	Unnamed Tributary at Mouth Below Boarding House Hollow at Co-operative, Ky	Lat 36°41'36", Long 84°36'56", McCreary County, Hydrologic Unit 05130104, 10 ft downstream of State Highway 1363, 10 ft upstream of Rock Creek, and 1000 ft above Unnamed Tributary at Co-operative.	1999-2000	10-26-99	<.01
				12-01-99	<.01
				01-04-00	.12
				02-07-00	.04
				03-06-00	.22
				04-03-00	.26
				05-09-00	.07
				06-05-00	<.01
				07-10-00	.01
				08-08-00	.03
				09-05-00	<.01
				09-25-00	.01

Discharge Measurements made at miscellaneous sites during water year 2000.

Station no.	Station name	Location	Period of record	Date	Discharge (ft ³ /s)
CUMBERLAND RIVER BASIN					
03410547	Unnamed Tributary to White Oak Creek at Culvert at Co-operative, Ky.	Lat 36°41'34", Long 84°36'37", McCreary County, Hydrologic Unit 05130104, 10 ft downstream of State Highway 1363, 20 ft upstream of Rock Creek, and 1000 ft below Boarding House Hollow.	1999-2000	10-26-99	.19
				12-01-99	.07
				01-04-00	.08
				02-07-00	.09
				03-06-00	.44
				04-03-00	.97
				05-09-00	.55
				06-05-00	.35
				07-10-00	.11
				08-08-00	.18
				09-05-00	.16
09-26-00	.14				
03410552	White Oak Creek Above Jones Branch at White Oak Junction, Ky.	Lat 36°42'06", Long 84°35'52", McCreary County, Hydrologic Unit 05130104, 20 ft above Mouth of Jones Branch, 220 ft upstream of Bridge near Mouth of White Oak Creek, and 240 ft upstream of Rock Creek.	1999-2000	10-26-99	.00
				12-01-99	.04
				01-04-00	9.89
				02-07-00	2.63
				03-06-00	3.31
				04-03-00	6.47
				05-09-00	3.87
				06-05-00	1.12
				07-10-00	.17
				08-08-00	2.63
				09-05-00	.06
09-26-00	1.87				
03410555	Jones Branch Above Unnamed Tributary at White Oak Junction, Ky.	Lat 36°42'29" Long 84°36'33", McCreary County, Hydrologic Unit 05130104, 20 ft downstream of Forest Service Road 821, 2000 ft upstream of State Highway 1363, and 2050 ft upstream of Mouth of Jones Branch.	1999-2000	10-26-99	.06
				12-01-99	.01
				01-04-00	1.25
				02-07-00	.61
				03-06-00	.68
				04-03-00	.99
				05-09-00	.38
				06-05-00	.07
				07-10-00	.06
				08-08-00	.21
				09-05-00	.04
09-26-00	.04				
03410557	White Oak Creek at Mouth at White Oak Junction, Ky.	Lat 36°42'09", Long 84°35'47", McCreary County, Hydrologic Unit 05130104, 20 ft upstream of bridge near Mouth of White Oak Creek, 40 ft upstream of Rock Creek, and 200 ft below Mouth of Jones Branch.	1999-2000	10-26-99	.00
				12-01-99	.04
				01-04-00	8.02
				02-07-00	3.11
				03-06-00	3.94
				04-03-00	5.77
				05-09-00	5.14
				06-05-00	.92
				07-10-00	.14
				08-08-00	2.30
				09-05-00	.01
09-26-00	.78				

Discharge Measurements made at miscellaneous sites during water year 2000.

Station no.	Station name	Location	Period of record	Date	Discharge (ft ³ /s)
CUMBERLAND RIVER BASIN					
03410559	Rock Creek Above White Oak Creek at White Oak Junction, Ky.	Lat 36°42'09", Long 84°35'43", McCreary County, Hydrologic Unit 05130104, 250 ft upstream of confluence with White Oak Creek, 1.0 mile upstream of Mouth of Roberts Hollow, and at mile 2.85.	1999-2000	10-26-99	4.66
				12-01-99	6.60
				01-04-00	-----
				02-07-00	24.6
				03-06-00	30.4
				04-03-00	54.7
				05-09-00	44.1
				06-05-00	18.4
				07-10-00	7.01
				08-08-00	9.9
				09-05-00	4.92
09-26-00	28.4				
03410565	Limestone Spring Below unnamed Tributary at White Oak Junction, Ky.	Lat 36°42'27", Long 84°35'26", McCreary County, Hydrologic Unit 05130104, 15 ft upstream of Rock Creek, 25 ft downstream of Old Kentucky & Tennessee Railroad Grade, and 2600 ft downstream of White Oak Junction.	1999-2000	10-26-99	1.49
				12-01-99	4.04
				01-04-00	13.8
				02-07-00	16.4
				03-06-00	13.7
				04-03-00	19.4
				05-09-00	19.5
				06-05-00	11.5
				07-10-00	4.02
				08-08-00	11.1
				09-05-00	1.88
09-26-00	17.5				
03410569	Rock Creek Above Roberts Hollow at White Oak Junction, Ky.	Lat 36°42'35", Long 84°35'03", McCreary County, Hydrologic Unit 05130104, 50 ft above Mouth of Roberts Hollow, 4600 ft downstream of White Oak Junction, and at mile 3.75	1999-2000	10-26-99	4.38
				12-01-99	7.32
				01-04-00	56.5
				02-07-00	31.6
				03-06-00	36.5
				04-03-00	55.6
				05-09-00	61.9
				06-05-00	25.4
				07-10-00	7.33
				08-08-00	15.1
				09-05-00	4.45
09-26-00	36.9				
03410570	Roberts Hollow at Mouth at Paint Cliff, Ky.	Lat 36°42'37", Long 84°35'02", McCreary County, Hydrologic Unit 05130104, 20 ft upstream of Rock Creek, 30 ft downstream of State Highway 1363, and 75 ft above Unnamed Tributary Below Roberts Hollow.	1999-2000	10-26-99	<.02
				12-01-99	.01
				01-04-00	1.57
				02-07-00	.04
				03-06-00	.40
				04-03-00	.37
				05-09-00	.26
				06-05-00	.03
				07-10-00	.01
				08-08-00	.14
				09-05-00	.02
09-26-00	.03				

Discharge Measurements made at miscellaneous sites during water year 2000.

Station no.	Station name	Location	Period of record	Date	Discharge (ft ³ /s)
CUMBERLAND RIVER BASIN					
03410571	Unnamed Tributary at Culvert Below Roberts Hollow at Paint Cliff, Ky.	Lat 36°42'38", Long 84°34'57", McCreary County, Hydrologic Unit 05130104, 20 ft downstream of State Highway 1363, 20 ft upstream of Rock Creek, and 75 ft downstream of Mouth of Roberts Hollow.	1999-2000	10-26-99	.00
				01-04-00	.02
				02-07-00	.03
				03-06-00	.05
				04-03-00	.07
				05-09-00	.02
				06-05-00	<.01
				07-10-00	.00
				08-08-00	<.01
				09-05-00	.00
03410575	Paint Cliff Discharge at Paint Cliff, Ky.	Lat 36°42'25", Long 84°34'36", McCreary County, Hydrologic Unit 05130104, 20 ft upstream of State Highway 1363, 150 ft upstream of Rock Creek, and 1800 ft above mouth of Poplar Spring Hollow.	1999-2000	10-26-99	.00
				12-01-99	<.05
				01-04-00	.03
				02-07-00	.04
				03-06-00	.10
				04-03-00	.22
				05-09-00	.08
				06-05-00	.05
				07-10-00	.03
				08-08-00	.06
09-05-00	.04				
09-26-00	.10				
03410578	Poplar Spring Hollow at Mouth at Paint Cliff, Ky.	Lat 36°42'22", Long 84°34'06", McCreary County, Hydrologic Unit 05130104, 20 ft downstream of State Highway 1363, 40 ft upstream of Rock Creek, and 50 ft downstream of Old Kentucky and Tennessee Railroad Grade.	1999-2000	10-26-99	<.02
				12-01-99	<.05
				01-04-00	.31
				02-07-00	.15
				03-06-00	.07
				04-03-00	.43
				05-09-00	.10
				06-05-00	.02
				07-10-00	<.01
				08-08-00	.04
09-05-00	.00				
09-26-00	<.01				
03410580	Rock Creek Below Poplar Spring Hollow at Paint Cliff, Ky.	Lat 36°42'11", Long 84°33'50", McCreary County, Hydrologic Unit 05130104, 75 ft upstream of Forest Service Road 1271, 1100 ft downstream of Mouth of Poplar Spring Hollow, and at mile 1.7	1999-2000	10-26-99	4.22
				12-01-99	6.56
				01-04-00	59.7
				02-07-00	28.3
				03-06-00	39.0
				04-03-00	44.4
				05-09-00	58.2
				06-05-00	23.8
				07-10-00	5.97
				08-08-00	13.9
09-05-00	4.24				
09-26-00	18.2				

Discharge Measurements made at miscellaneous sites during water year 2000.

Station no.	Station name	Location	Period of record	Date	Discharge (ft ³ /s)
CUMBERLAND RIVER BASIN					
03410585	Koger Fork above Mouth at Paint Cliff, Ky.	Lat 36°42'03", Long 84°32'49", McCreary County, Hydrologic Unit 05130104, 10 ft upstream of Rock Creek, 60 ft above Forest Service Road 1271, and 1400 ft downstream of Forks of Koger Fork.	1999-2000	10-26-99	.04
				12-01-99	.12
				01-04-00	1.33
				02-07-00	.40
				03-06-00	.73
				04-03-00	.83
				05-09-00	.94
				06-05-00	.28
				07-10-00	.08
				08-08-00	.21
				09-05-00	.07
09-26-00	.16				
03410594	Water Tank Hollow above Mouth at Yamacraw, Ky.	Lat 36°42'44", Long 84°33'05", McCreary County, Hydrologic Unit 05130104, 20 ft upstream of State Highway 1363, 130 ft upstream of Rock Creek, and 1000 ft above Mouth of Grassy Fork.	1999-2000	10-26-99	.00
				12-01-99	.01
				01-04-00	1.05
				02-07-00	.66
				03-06-00	.65
				04-03-00	.92
				05-09-00	.59
				06-05-00	.05
				07-10-00	.01
				08-08-00	.10
				09-05-00	<.01
09-26-00	.07				
03410595	Water Tank Hollow at Mouth at Yamacraw, Ky.	Lat 36°42'43", Long 84°33'01", McCreary County, Hydrologic Unit 05130104, 10 ft upstream of Rock Creek, 100 ft downstream of State Highway 1363, and 1000 ft above Mouth of Grassy Fork.	1999-2000	10-26-99	.00
				12-01-99	.01
				01-04-00	1.05
				02-07-00	.66
				03-06-00	.65
				04-03-00	.92
				05-09-00	.59
				06-05-00	.05
				07-10-00	.01
				08-08-00	.10
				09-05-00	<.01
09-26-00	.07				

Discharge Measurements made at miscellaneous sites during water year 2000.

Station no.	Station name	Location	Period of record	Date	Discharge (ft ³ /s)
CUMBERLAND RIVER BASIN					
03410597	Rock Creek Below Grassy Fork at Yamacraw, Ky.	Lat 36°42'54", Long 84°32'49", McCreary County, Hydrologic Unit 05130104, 20 ft below Mouth of Grassy Fork, 1000 ft downstream from Mouth of Water Tank Hollow, and at mile 0.35.	1999-2000	10-26-99	2.98
				12-01-99	7.44
				01-04-00	23.9
				02-07-00	31.7
				03-06-00	34.8
				04-03-00	52.6
				05-09-00	70.2
				06-05-00	21.9
				07-10-00	8.32
				08-08-00	21.1
				09-05-00	4.58
09-26-00	23.9				
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.	1940-2000	11-18-99	5.17
				08-10-00	8.83

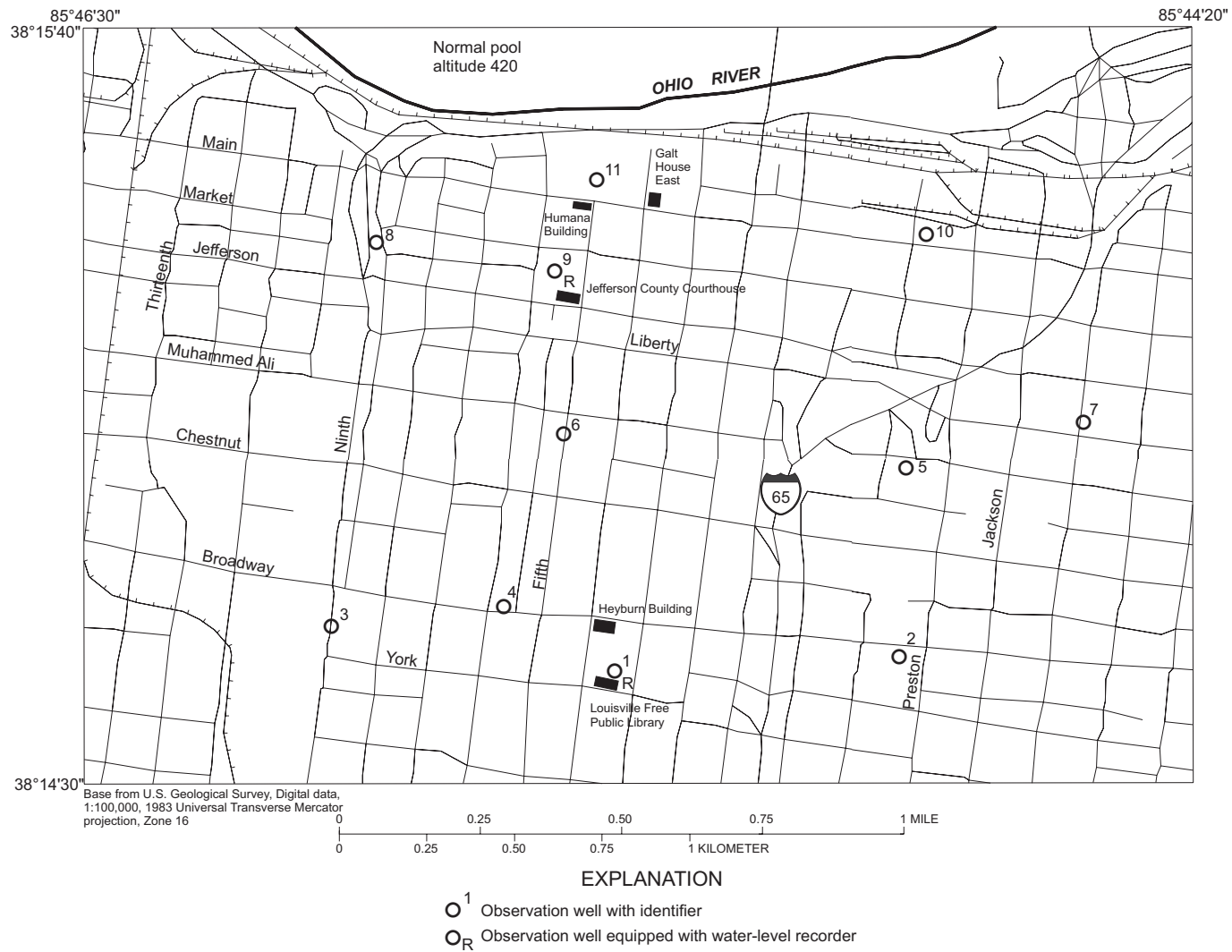


Figure 6. Location of observation wells in downtown Louisville, Kentucky.

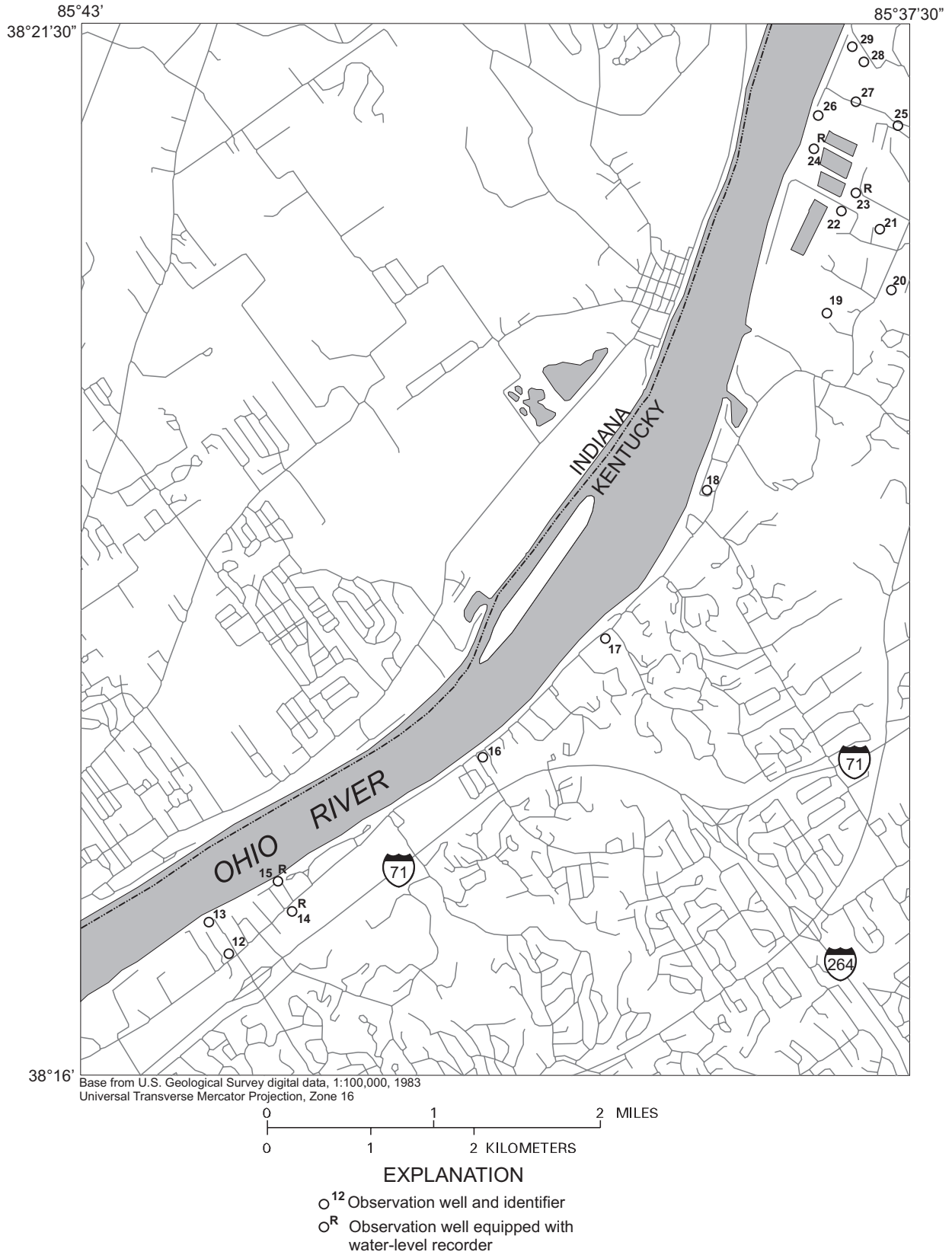


Figure 7. Location of observation wells in northeastern Jefferson County, Kentucky



GROUND-WATER LEVELS

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.--EDL recorder, 60 minute interval.

DATUM.--Elevation of land-surface datum is 405.65 ft 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 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 1200 HOURS

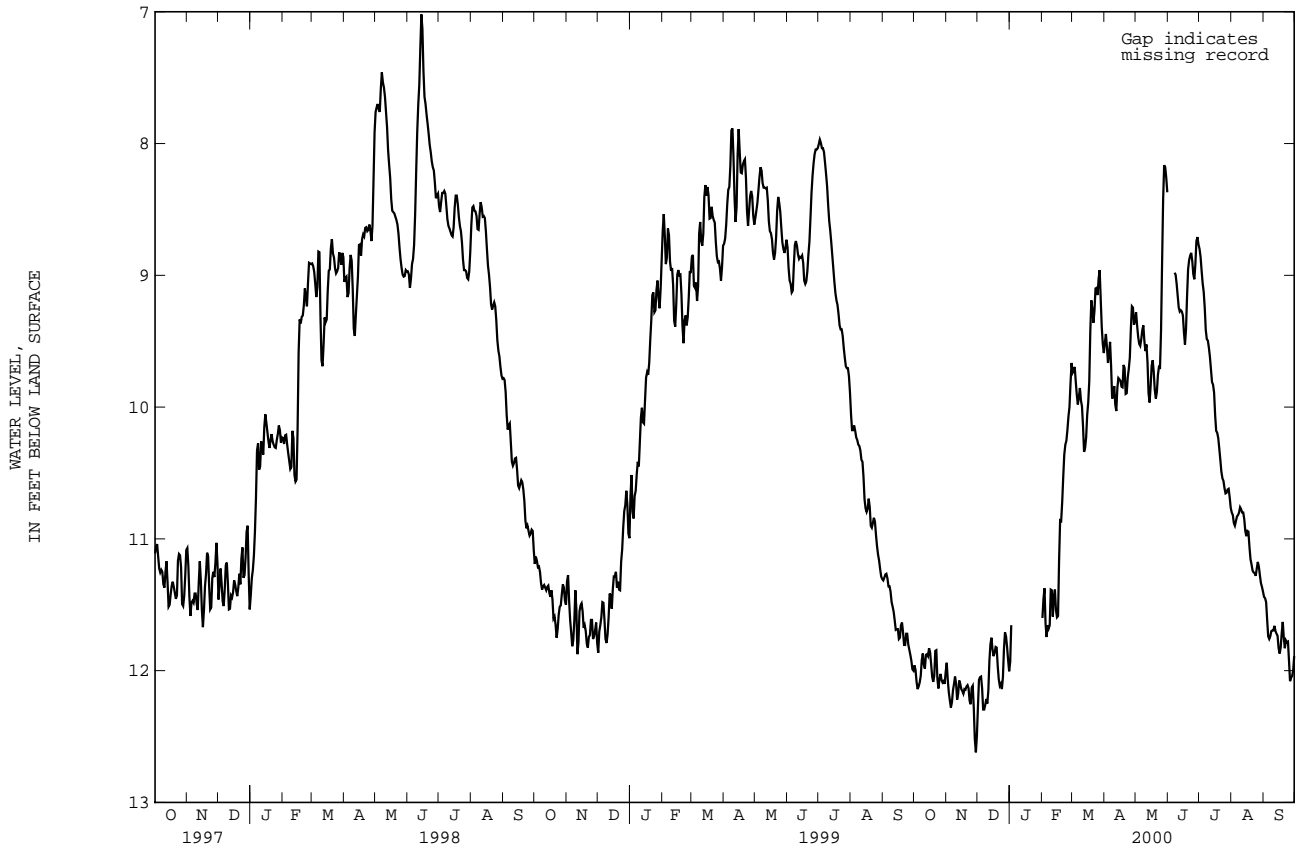
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.96	11.89	12.37	11.98	11.53	9.66	9.56	9.23	8.42	8.79	10.80	11.43
2	11.96	11.99	12.17	11.89	11.67	9.82	9.46	9.33	---	8.81	10.80	11.45
3	12.03	12.15	11.97	11.42	11.24	9.63	9.43	9.43	---	8.91	10.84	11.45
4	12.14	12.18	12.13	---	11.51	9.76	9.66	9.50	---	9.02	10.92	11.51
5	12.14	12.27	11.96	---	11.78	9.85	9.67	9.54	---	9.10	10.88	11.72
6	12.10	12.29	12.31	---	11.71	9.96	9.53	9.53	---	9.15	10.85	11.76
7	12.08	12.19	12.28	---	11.60	10.00	9.48	9.44	9.00	9.34	10.81	11.76
8	12.00	12.11	12.31	---	11.76	9.85	9.90	9.39	8.96	9.49	10.83	11.72
9	11.84	12.09	12.21	---	11.55	9.86	9.97	9.37	9.03	9.48	10.77	11.68
10	11.90	12.00	12.22	---	11.22	10.04	9.86	9.63	9.10	9.51	10.75	11.71
11	12.01	12.20	12.28	---	11.56	9.95	9.82	9.52	9.21	9.59	10.80	11.68
12	11.96	12.24	12.02	---	11.62	10.34	10.14	9.53	9.28	9.65	10.80	11.64
13	11.80	12.11	11.83	---	11.25	10.34	9.92	9.79	9.27	9.78	10.80	11.76
14	11.95	12.04	11.77	---	11.52	10.28	9.79	10.00	9.26	9.84	10.90	11.68
15	11.83	12.16	11.73	---	11.56	10.18	9.77	9.93	9.29	9.82	10.98	11.79
16	11.83	12.12	11.95	---	11.63	9.94	9.81	9.75	9.32	9.96	10.98	11.87
17	11.89	12.19	11.83	---	11.54	9.99	9.79	9.62	9.54	10.16	10.90	11.87
18	12.01	12.16	11.90	---	10.79	9.62	9.90	9.67	9.51	10.20	10.99	11.78
19	12.08	12.12	11.74	---	10.93	9.23	9.80	9.80	9.31	10.19	11.13	11.65
20	12.09	12.17	11.91	---	10.80	9.15	9.56	9.94	9.01	10.28	11.18	11.61
21	11.99	12.07	12.02	---	10.64	9.36	9.85	9.93	8.90	10.35	11.21	11.89
22	11.71	12.15	12.11	---	10.41	9.36	9.95	9.84	8.87	10.45	11.27	11.77
23	11.98	12.12	12.12	---	10.31	9.18	9.84	9.67	8.83	10.53	11.24	11.77
24	12.14	12.34	12.08	---	10.26	9.02	9.71	9.72	8.83	10.55	11.28	11.80
25	12.13	12.17	12.20	---	10.25	9.17	9.71	9.68	8.95	10.57	11.28	11.76
26	12.00	12.09	11.90	---	10.10	9.13	9.54	9.15	9.03	10.66	11.17	12.09
27	12.05	12.14	11.77	---	10.04	8.92	9.27	8.68	9.03	10.65	11.18	12.07
28	12.09	12.42	11.65	---	9.96	9.00	9.20	8.17	8.80	10.65	11.24	12.04
29	12.09	12.62	11.83	---	9.67	9.36	9.29	8.16	8.68	10.60	11.31	12.04
30	12.07	12.62	11.81	---	---	9.42	9.46	8.20	8.74	10.64	11.36	11.96
31	12.13	---	12.03	---	---	9.62	---	8.32	---	10.73	11.37	---
MAX	12.14	12.62	12.37	11.98	11.78	10.34	10.14	10.00	9.54	10.73	11.37	12.09
MIN	11.71	11.89	11.65	11.42	9.67	8.92	9.20	8.16	8.42	8.79	10.75	11.43

WTR YR 2000 HIGH 8.16 LOW 12.62

GROUND-WATER LEVELS

GRAVES COUNTY

365210088391301. Viola well--Continued



GROUND-WATER LEVELS

JEFFERSON COUNTY

381441085452701. Local number 45-14-71, (owner's number 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: 1120TSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in., depth 105 ft, cased and screened.

INSTRUMENTATION.--Continuous recorder, 3 minute interval.

DATUM.--Elevation of land-surface datum is 454.23 ft 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 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 1200 HOURS

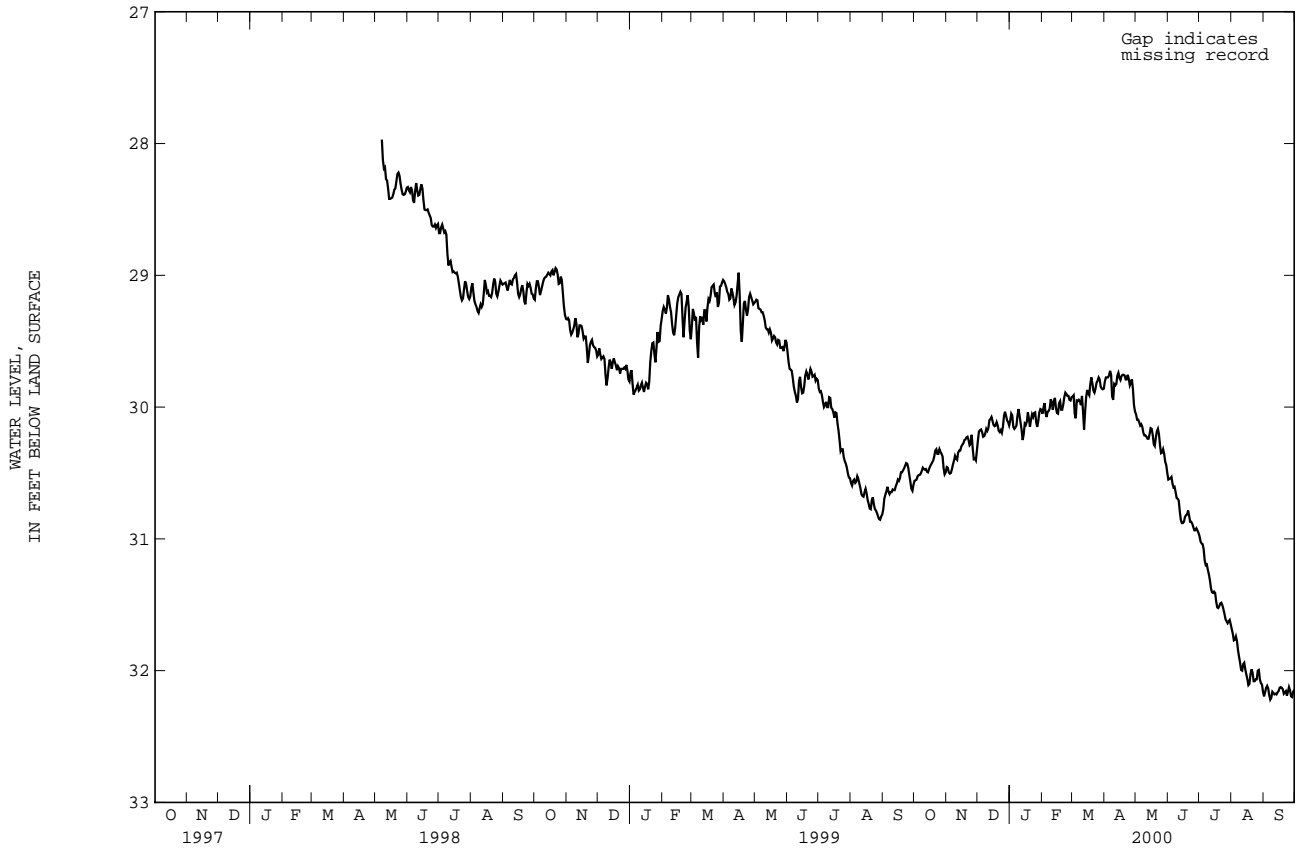
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30.57	30.48	30.29	30.13	30.03	29.91	29.84	30.03	30.56	30.96	31.67	32.20
2	30.55	30.43	30.21	30.08	30.07	29.93	29.77	30.08	30.54	31.00	31.70	32.19
3	30.56	30.49	30.16	30.02	29.94	29.89	29.78	30.11	30.55	31.04	31.74	32.14
4	30.54	30.50	30.19	30.11	30.00	30.21	29.77	30.08	30.53	31.03	31.80	32.12
5	30.51	30.51	30.15	30.19	30.09	29.96	29.78	30.15	30.53	31.05	31.73	32.11
6	30.52	30.49	30.23	30.14	30.06	29.94	29.74	30.13	30.63	31.11	31.75	32.16
7	30.51	30.45	30.22	30.17	30.01	29.97	29.71	30.13	30.59	31.22	31.80	32.21
8	30.50	30.42	30.22	30.11	30.05	29.92	29.80	30.17	30.62	31.18	31.89	32.23
9	30.47	30.39	30.18	30.02	29.97	29.99	30.04	30.22	30.67	31.21	31.90	32.18
10	30.45	30.35	30.15	30.01	29.91	29.98	29.85	30.21	30.71	31.26	31.98	32.14
11	30.49	30.43	30.21	30.12	30.02	29.85	29.80	30.22	30.68	31.28	32.01	32.20
12	30.46	30.37	30.11	30.12	30.02	30.22	29.87	30.23	30.74	31.35	31.99	32.16
13	30.48	30.32	30.09	30.23	29.89	30.12	29.78	30.25	30.84	31.40	31.91	32.19
14	30.50	30.34	30.09	30.27	29.97	29.95	29.74	30.23	30.87	31.41	31.97	32.17
15	30.49	30.32	30.06	30.14	30.04	29.90	29.74	30.18	30.89	31.41	32.01	32.16
16	30.45	30.28	30.15	30.11	30.05	29.84	29.82	30.14	30.87	31.39	32.05	32.15
17	30.45	30.29	30.12	30.16	30.05	29.95	29.77	30.19	30.87	31.43	32.08	32.11
18	30.42	30.26	30.17	30.06	29.89	29.87	29.76	30.23	30.80	31.52	32.14	32.14
19	30.42	30.24	30.11	30.02	30.02	29.78	29.75	30.33	30.84	31.52	32.06	32.12
20	30.39	30.25	30.12	30.16	30.02	29.77	29.76	30.26	30.79	31.53	31.99	32.16
21	30.36	30.21	30.16	30.14	30.02	29.87	29.76	30.20	30.78	31.49	31.99	32.19
22	30.30	30.24	30.20	30.05	29.94	29.88	29.82	30.17	30.87	31.49	32.04	32.14
23	30.34	30.26	30.18	30.06	29.91	29.90	29.76	30.16	30.87	31.48	32.12	32.17
24	30.37	30.32	30.17	30.09	29.87	29.82	29.75	30.25	30.87	31.53	32.04	32.21
25	30.34	30.24	30.22	30.00	29.93	29.81	29.82	30.33	30.90	31.54	32.09	32.11
26	30.30	30.18	30.08	30.08	29.90	29.79	29.85	30.37	30.92	31.60	32.04	32.14
27	30.38	30.45	30.06	30.15	29.93	29.76	29.78	30.32	30.95	31.62	31.96	32.16
28	30.33	30.34	30.01	30.15	29.96	29.82	29.80	30.32	30.92	31.63	32.03	32.23
29	30.42	30.44	30.12	30.06	29.94	29.87	29.93	30.39	30.92	31.65	32.10	32.17
30	30.51	30.37	30.08	30.02	---	29.85	30.04	30.44	30.95	31.60	32.09	32.15
31	30.51	---	30.15	30.01	---	29.88	---	30.44	---	31.63	32.12	---
MAX	30.57	30.51	30.29	30.27	30.09	30.22	30.04	30.44	30.95	31.65	32.14	32.23
MIN	30.30	30.18	30.01	30.00	29.87	29.76	29.71	30.03	30.53	30.96	31.67	32.11

WTR YR 2000 HIGH 29.71 LOW 32.23

GROUND-WATER LEVELS

JEFFERSON COUNTY

381441085452701. Local number 45-14-71, (owner's number A-2), map number 1--Continued



GROUND-WATER LEVELS

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 strret on west side of Metro United Way Buliding 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 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, 38.91 ft below land-surface datum, Sept. 25, 2000.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Dec. 17, 1999	37.53	Jun. 02 2000	37.15
Mar. 09, 2000	36.99	Sept. 25, 2000	38.91

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 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, 30.24 ft below land-surface datum Sept. 25, 2000.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Dec. 17, 1999	28.82	Jun. 02, 2000	28.96
Mar. 09, 2000	28.61	Sept. 25, 2000	30.24

381447085454001. Local number 45-14-66. (owner number 5), map number 4.

LOCATION.--Lat 38°14'47", long 85°45'40", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at Courier Journal-Louisville Times, 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 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 form 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 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Dec. 17, 1999	30.76	Jun. 02, 2000	31.35
Mar. 09, 2000	30.42	Sept. 25, 2000	33.17

GROUND-WATER LEVELS

393

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 NGVD of 1929. Measuring point: Top of casing, 0.25 ft below land-surface datum.

REMARKS.--Deeper of two wells drilled 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, 39.39 ft below land-surface datum, Sept. 25, 2000.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Dec. 17, 1999	37.45	Jun. 02, 2000	37.30
Mar. 09, 2000	36.61	Sept. 25, 2000	39.39

381503085453301. Local number 45-15-36, 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 Muhammad Ali Blvd., in Louisville. Owner: Kentucky Towers (formerly Kentucky Hotel).

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 1120TSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 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 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.--Highest 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 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Dec. 17, 1999	35.92	Jun. 02, 2000	40.44
Mar. 03, 2000	35.29	Sept. 25, 2000	42.58

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 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, 47.69 ft below land-surface datum, Oct. 25, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Dec. 17, 1999	45.72	Jun. 02, 2000	45.19
Mar. 09, 2000	44.77	Sept. 25, 2000	47.09

GROUND-WATER LEVELS

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 code: 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 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 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Dec. 17, 1999	34.18	Jun. 02, 2000	34.68
Mar. 03, 2000	33.50	Sept. 25, 2000	36.93



GROUND-WATER LEVELS

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: 1120TSH.

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 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 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 1200 HOURS

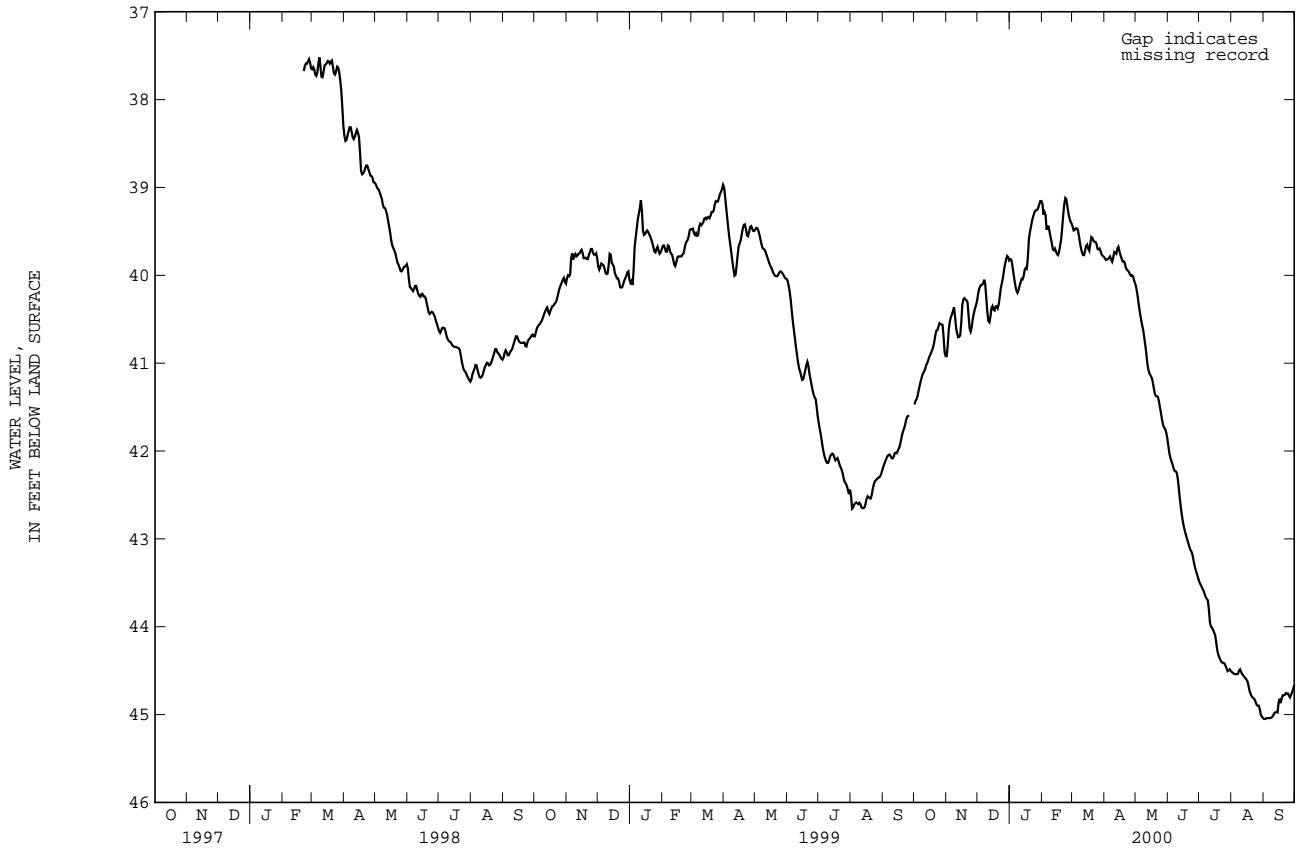
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41.50	40.92	40.27	39.83	39.17	39.41	39.79	40.10	41.89	43.48	44.51	45.05
2	41.44	40.92	40.18	39.80	39.20	39.48	39.82	40.16	41.99	43.51	44.52	45.05
3	41.42	40.66	40.14	39.84	39.42	39.50	39.83	40.23	42.06	43.53	44.53	45.05
4	41.40	40.56	40.12	39.92	39.14	39.47	39.81	40.33	42.10	43.56	44.54	45.04
5	41.34	40.49	40.10	40.01	39.49	39.46	39.82	40.41	42.13	43.58	44.54	45.04
6	41.28	40.46	40.11	40.08	39.47	39.47	39.78	40.48	42.17	43.61	44.54	45.04
7	41.23	40.43	40.08	40.16	39.42	39.49	39.79	40.55	42.22	43.65	44.54	45.04
8	41.18	40.38	40.02	40.19	39.47	39.60	39.85	40.60	42.23	43.68	44.53	45.04
9	41.14	40.35	40.18	40.21	39.56	39.65	39.84	40.66	42.23	43.69	44.47	45.03
10	41.10	40.58	40.34	40.13	39.59	39.73	39.76	40.78	42.26	43.71	44.50	45.02
11	41.10	40.62	40.49	40.11	39.68	39.75	39.71	40.83	42.35	43.90	44.53	44.99
12	41.05	40.70	40.55	40.05	39.73	39.79	39.78	40.98	42.48	44.00	44.55	44.97
13	41.01	40.71	40.52	40.03	39.70	39.75	39.73	41.06	42.59	44.00	44.56	44.98
14	41.00	40.69	40.42	40.06	39.69	39.68	39.66	41.11	42.69	44.02	44.58	44.96
15	40.95	40.67	40.33	39.95	39.76	39.65	39.69	41.13	42.77	44.05	44.59	44.99
16	40.92	40.40	40.37	39.92	39.76	39.65	39.76	41.15	42.84	44.08	44.61	44.74
17	40.90	40.27	40.41	39.91	39.78	39.74	39.78	41.18	42.89	44.11	44.63	44.90
18	40.86	40.28	40.39	39.94	39.68	39.70	39.83	41.24	42.94	44.24	44.70	44.84
19	40.84	40.24	40.32	39.64	39.64	39.58	39.85	41.32	42.98	44.29	44.75	44.79
20	40.79	40.31	40.38	39.53	39.54	39.55	39.83	41.37	43.02	44.34	44.78	44.77
21	40.73	40.26	40.37	39.48	39.38	39.60	39.88	41.38	43.06	44.36	44.80	44.79
22	40.64	40.35	40.29	39.41	39.23	39.61	39.93	41.37	43.10	44.39	44.81	44.76
23	40.62	40.57	40.19	39.35	39.15	39.63	39.94	41.40	43.14	44.41	44.82	44.75
24	40.63	40.64	40.10	39.32	39.09	39.61	39.95	41.47	43.14	44.41	44.84	44.77
25	40.54	40.64	40.08	39.27	39.18	39.68	39.97	41.54	43.20	44.41	44.88	44.75
26	40.55	40.54	39.98	39.26	39.26	39.72	40.00	41.61	43.26	44.43	44.90	44.82
27	40.56	40.46	39.91	39.26	39.33	39.69	40.01	41.68	43.32	44.46	44.90	44.79
28	40.56	40.41	39.84	39.25	39.37	39.70	39.99	41.73	43.36	44.49	44.90	44.76
29	40.57	40.36	39.81	39.21	39.41	39.76	40.03	41.74	43.40	44.52	44.99	44.73
30	40.84	40.33	39.75	39.17	---	39.77	40.08	41.76	43.44	44.47	45.02	44.69
31	40.92	---	39.83	39.14	---	39.79	---	41.82	---	44.50	45.03	---
MAX	41.50	40.92	40.55	40.21	39.78	39.79	40.08	41.82	43.44	44.52	45.03	45.05
MIN	40.54	40.24	39.75	39.14	39.09	39.41	39.66	40.10	41.89	43.48	44.47	44.69

WTR YR 2000 HIGH 39.09 LOW 45.05

GROUND-WATER LEVELS

JEFFERSON COUNTY

381518085453402. Local number 86-11 (Courthouse Annex), map number 9--Continued



GROUND-WATER LEVELS

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 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, 41.55 ft below land-surface datum, Sept. 25, 2000.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Dec. 17, 1999	39.16	Jun. 02, 2000	39.55
Mar. 09, 2000	38.26	Sept. 25, 2000	41.55

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: 1120TSH.

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 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 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Dec. 17, 1999	31.47	Jun. 02, 2000	33.25
Mar. 09, 2000	30.59	Sept. 25, 2000	36.01

381638085415801. Local number 41-16-3, (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: 1120TSH.

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 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 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Dec. 14, 1999	15.18	Jun. 06, 2000	14.86
Mar. 09, 2000	13.67	Sept. 26, 2000	15.11

GROUND-WATER LEVELS

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JEFFERSON COUNTY

381648085421201. Local number 42-16-15,(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: 1120TSH.

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 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 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Dec. 14, 1999	14.77	Jun. 06, 2000	13.91
Mar. 09, 2000	12.07	Sept. 26, 2000	14.61

GROUND-WATER LEVELS

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 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 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 1200 HOURS

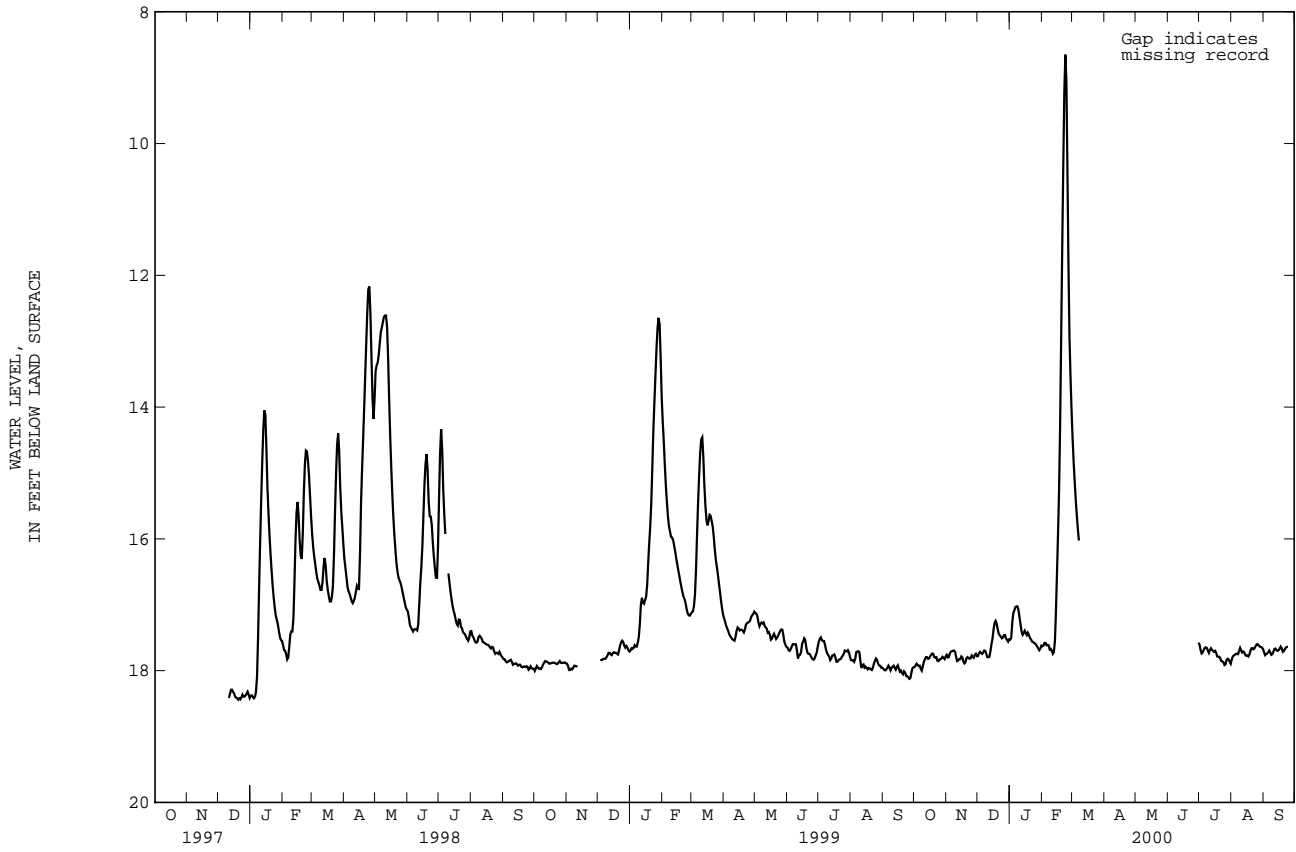
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.94	17.74	17.81	17.47	17.60	14.28	---	---	---	17.57	17.87	17.67
2	17.95	17.78	17.75	17.59	17.66	14.69	---	---	---	17.64	17.79	17.77
3	17.90	17.82	17.72	17.41	17.58	14.99	---	---	---	17.73	17.78	17.76
4	17.89	17.77	17.71	17.13	17.58	15.28	---	---	---	17.75	17.76	17.74
5	17.94	17.71	17.75	17.12	17.58	15.53	---	---	---	17.70	17.76	17.74
6	17.92	17.71	17.74	17.05	17.65	15.75	---	---	---	17.67	17.73	17.70
7	17.93	17.70	17.71	17.02	17.57	15.94	---	---	---	17.64	17.76	17.69
8	18.01	17.70	17.68	17.03	17.66	16.11	---	---	---	17.65	17.74	17.76
9	17.99	17.69	17.72	17.02	17.70	---	---	---	---	17.66	17.67	17.76
10	17.88	17.74	17.77	17.15	17.64	---	---	---	---	17.73	17.64	17.74
11	17.85	17.84	17.82	17.24	17.75	---	---	---	---	17.73	17.75	17.69
12	17.81	17.87	17.77	17.37	17.74	---	---	---	---	17.64	17.70	17.65
13	17.78	17.82	17.81	17.45	17.70	---	---	---	---	17.68	17.72	17.68
14	17.81	17.83	17.60	17.46	17.40	---	---	---	---	17.69	17.73	17.70
15	17.83	17.82	17.59	17.40	16.79	---	---	---	---	17.71	17.79	17.70
16	17.80	17.75	17.44	17.39	16.22	---	---	---	---	17.72	17.76	17.68
17	17.77	17.85	17.31	17.47	15.63	---	---	---	---	17.68	17.78	17.66
18	17.75	17.87	17.24	17.45	14.88	---	---	---	---	17.78	17.79	17.61
19	17.73	17.91	17.25	17.40	13.67	---	---	---	---	17.79	17.72	17.71
20	17.76	17.84	17.33	17.52	12.28	---	---	---	---	17.79	17.67	17.72
21	17.83	17.78	17.41	17.49	10.96	---	---	---	---	17.79	17.65	17.69
22	17.77	17.81	17.47	17.56	9.72	---	---	---	---	17.84	17.67	17.66
23	17.82	17.81	17.46	17.56	8.78	---	---	---	---	17.87	17.68	17.64
24	17.88	17.83	17.51	17.57	8.52	---	---	---	---	17.85	17.63	17.64
25	17.83	17.79	17.51	17.59	9.55	---	---	---	---	17.90	17.62	17.64
26	17.83	17.75	17.49	17.59	11.15	---	---	---	---	17.93	17.58	---
27	17.83	17.83	17.43	17.63	12.57	---	---	---	---	17.88	17.62	---
28	17.79	17.78	17.49	17.64	13.30	---	---	---	---	17.79	17.62	---
29	17.79	17.74	17.53	17.69	13.82	---	---	---	---	17.85	17.65	---
30	17.82	17.75	17.54	17.69	---	---	---	---	17.58	17.81	17.63	---
31	17.83	---	17.58	17.64	---	---	---	---	---	17.92	17.67	---
MAX	18.01	17.91	17.82	17.69	17.75	16.11	---	---	17.58	17.93	17.87	17.77
MIN	17.73	17.69	17.24	17.02	8.52	14.28	---	---	17.58	17.57	17.58	17.61

WTR YR 2000 HIGH 8.52 LOW 18.01

GROUND-WATER LEVELS

JEFFERSON COUNTY

381653085413302. Local number (WC-9A), map number 14--Continued



GROUND-WATER LEVELS

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 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 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 1200 HOURS

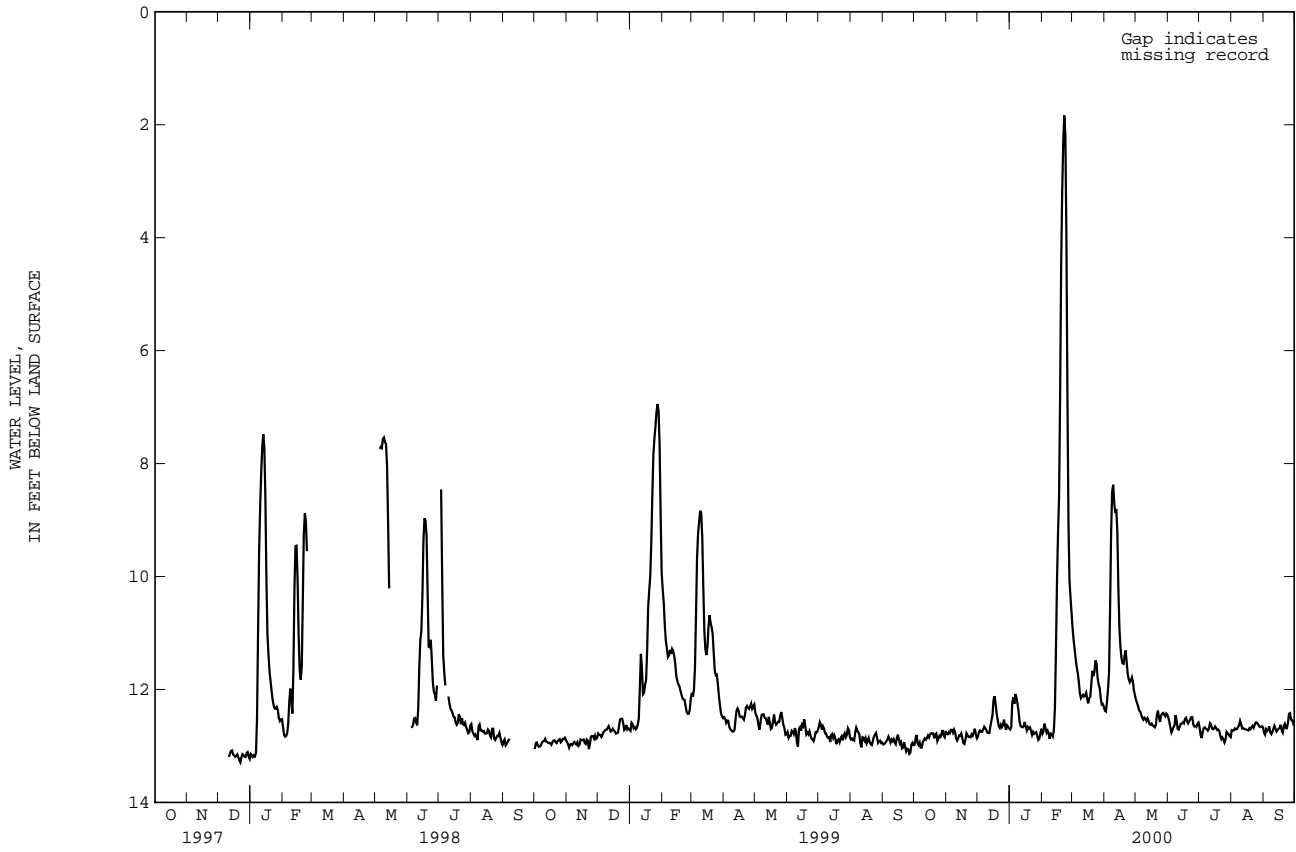
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.95	12.71	12.89	12.63	12.66	10.78	12.36	12.13	12.47	12.60	12.74	12.67
2	13.01	12.87	12.78	12.79	12.90	11.07	12.39	12.25	12.53	12.73	12.70	12.86
3	12.74	12.72	12.72	12.55	12.57	11.20	12.39	12.23	12.62	12.88	12.75	12.74
4	12.87	12.79	12.73	11.91	12.64	11.40	12.07	12.38	12.72	12.84	12.70	12.67
5	13.04	12.76	12.77	12.37	12.73	11.55	11.93	12.37	12.80	12.67	12.68	12.80
6	12.93	12.67	12.73	12.14	12.80	11.67	11.49	12.41	12.63	12.70	12.73	12.63
7	12.95	12.76	12.69	12.02	12.66	11.76	9.70	12.49	12.71	12.64	12.67	12.68
8	13.11	12.77	12.63	12.26	12.90	11.99	8.78	12.52	12.55	12.74	12.66	12.84
9	12.95	12.65	12.74	12.24	12.85	12.15	8.22	12.55	12.36	12.67	12.61	12.74
10	12.91	12.86	12.69	12.52	12.71	12.16	8.53	12.45	12.74	12.79	12.50	12.77
11	12.88	12.87	12.84	12.61	12.87	12.09	8.85	12.59	12.66	12.61	12.73	12.62
12	12.85	12.94	12.70	12.69	12.79	12.10	8.90	12.53	12.76	12.58	12.65	12.67
13	12.93	12.79	12.84	12.63	12.65	12.15	8.71	12.49	12.55	12.65	12.72	12.72
14	12.79	12.84	12.45	12.71	11.99	12.07	9.73	12.61	12.67	12.73	12.68	12.77
15	12.84	12.80	12.64	12.59	10.60	12.05	10.71	12.62	12.53	12.68	12.73	12.67
16	12.86	12.76	12.27	12.56	9.56	12.27	11.12	12.63	12.63	12.70	12.69	12.72
17	12.73	12.97	12.09	12.76	8.90	12.22	11.38	12.58	12.57	12.61	12.75	12.64
18	12.82	12.93	12.15	12.69	8.27	12.09	11.52	12.70	12.47	12.76	12.70	12.61
19	12.74	13.00	12.37	12.64	5.31	12.17	11.55	12.60	12.53	12.68	12.67	12.84
20	12.82	12.78	12.49	12.74	3.68	11.62	11.54	12.74	12.59	12.74	12.74	12.69
21	12.91	12.77	12.59	12.60	2.66	11.72	11.25	12.52	12.61	12.73	12.60	12.61
22	12.69	12.85	12.71	12.87	1.93	11.81	11.37	12.40	12.52	12.91	12.69	12.61
23	12.87	12.83	12.65	12.74	1.74	11.56	11.68	12.35	12.54	12.85	12.67	12.76
24	12.96	12.84	12.60	12.76	2.60	11.41	11.78	12.63	12.44	12.85	12.58	12.61
25	12.78	12.85	12.74	12.81	5.27	11.67	11.87	12.52	12.54	12.92	12.59	12.57
26	12.86	12.74	12.53	12.72	8.17	11.91	11.88	12.40	12.70	12.96	12.58	12.29
27	12.82	12.90	12.54	12.79	9.89	11.91	11.80	12.46	12.61	12.82	12.64	12.55
28	12.74	12.63	12.73	12.86	10.24	12.03	11.77	12.37	12.69	12.68	12.64	12.52
29	12.70	12.76	12.70	12.93	10.51	12.27	11.96	12.52	12.64	12.87	12.69	12.57
30	12.93	12.84	12.57	12.82	---	12.26	12.09	12.43	12.57	12.71	12.64	12.63
31	12.76	---	12.75	12.73	---	12.25	---	12.42	---	12.95	12.66	---
MAX	13.11	13.00	12.89	12.93	12.90	12.27	12.39	12.74	12.80	12.96	12.75	12.86
MIN	12.69	12.63	12.09	11.91	1.74	10.78	8.22	12.13	12.36	12.58	12.50	12.29

WTR YR 2000 HIGH 1.74 LOW 13.11

GROUND-WATER LEVELS

JEFFERSON COUNTY

381701085414002. Local number (WC-8A), map number 15--Continued



GROUND-WATER LEVELS

JEFFERSON COUNTY

381742085402001. Local number 40-17-5,(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: 1120TSH.

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 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 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Dec. 14, 1999	18.40	Jun. 06, 2000	16.88
Mar. 09, 2000	16.29	Sept. 26, 2000	17.26

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: 1120TSH.

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 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 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Dec. 14, 1999	34.11	Jun. 02, 2000	33.90
Mar. 09, 2000	33.72	Sept. 26, 2000	34.05

381904085384801. Local number 38-19-2,(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: 1120TSH.

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 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 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Dec. 14, 1999	17.81	Jun. 06, 2000	17.84
Mar. 09, 2000	17.85	Sept. 26, 2000	17.77

GROUND-WATER LEVELS

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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: 1120TSH.

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 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, 41.62 ft below land-surface datum, Sept. 26, 2000.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Dec. 13, 1999	41.38	Jun. 07, 2000	40.94
Mar. 10, 2000	38.45	Sept. 26, 2000	41.62

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: 1120TSH.

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 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, 33.65 ft below land-surface datum, Sept. 26, 2000.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Dec. 13, 1999	33.19	Jun. 07, 2000	32.93
Mar. 10, 2000	30.42	Sept. 26, 2000	33.65

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: 1120TSH.

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 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, 34.53 ft below land-surface datum, Dec. 13, 1999.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Dec. 13, 1999	34.53	Jun. 07, 2000	33.96
Mar. 10, 2000	34.24	Sept. 26, 2000	34.48

GROUND-WATER LEVELS

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: 1120TSH.

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 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, 40.85 ft below land-surface datum, Sept. 26, 2000.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Dec. 13, 1999	39.44	Jun. 07, 2000	39.44
Mar. 10, 2000	37.80	Sept. 26, 2000	40.85



GROUND-WATER LEVELS

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: 1120TSH.

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 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, 45.74 ft below land-surface datum, Sept. 30, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 1200 HOURS

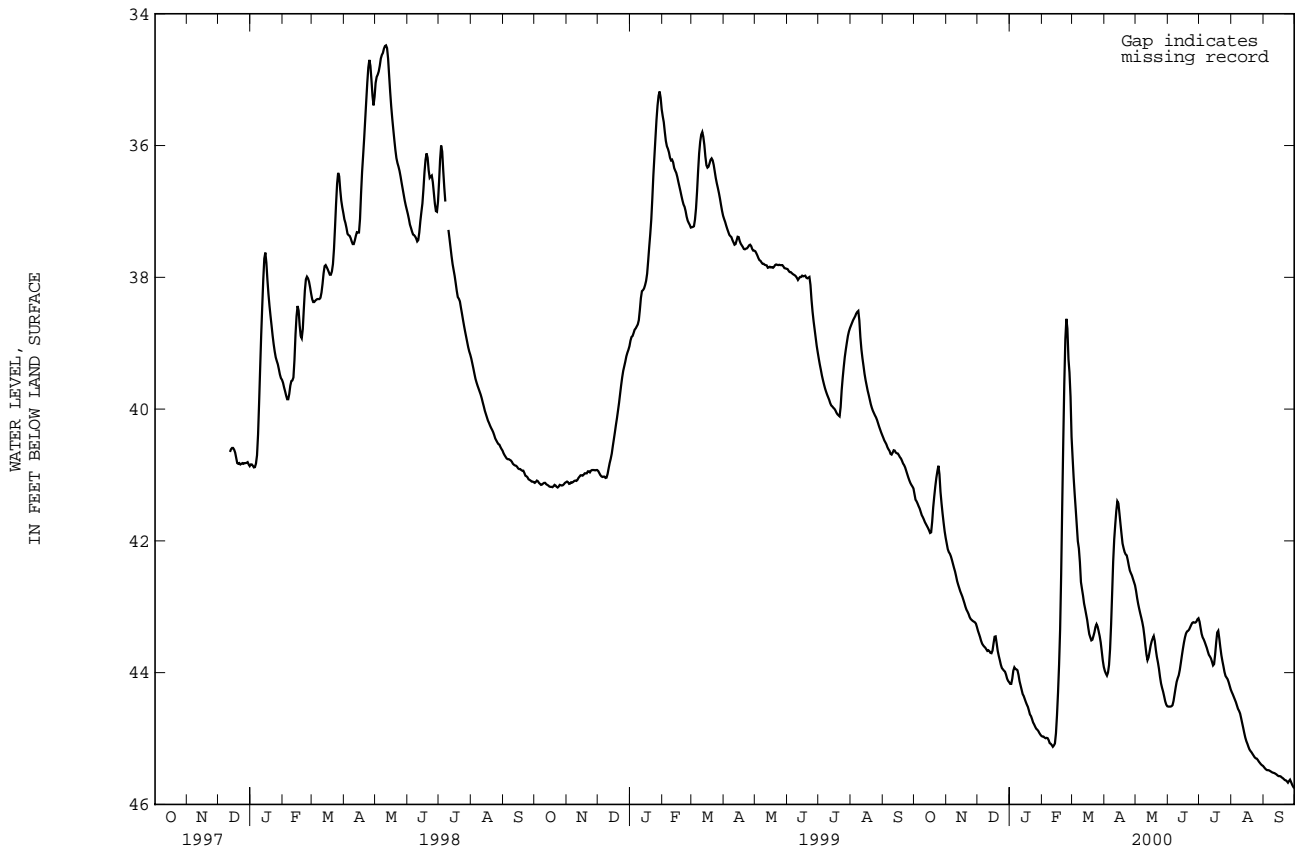
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41.22	41.99	43.34	44.15	44.97	40.58	43.95	42.70	44.52	43.18	44.28	45.42
2	41.36	42.09	43.39	44.19	44.97	40.91	44.00	42.82	44.51	43.27	44.31	45.45
3	41.39	42.16	43.43	44.15	44.97	41.18	44.03	42.91	44.52	43.37	44.35	45.46
4	41.41	42.18	43.49	44.03	45.00	41.41	44.06	43.00	44.51	43.45	44.39	45.48
5	41.46	42.21	43.54	43.91	44.99	41.64	43.94	43.06	44.51	43.48	44.43	45.48
6	41.49	42.26	43.58	43.93	44.99	41.89	43.83	43.14	44.48	43.51	44.47	45.48
7	41.53	42.32	43.59	43.96	45.00	42.12	43.46	43.19	44.38	43.56	44.53	45.49
8	41.59	42.38	43.62	43.94	45.05	42.11	43.08	43.28	44.28	43.60	44.57	45.50
9	41.63	42.44	43.62	43.99	45.09	42.54	42.51	43.36	44.18	43.65	44.59	45.51
10	41.65	42.49	43.67	44.08	45.07	42.71	42.11	43.53	44.10	43.71	44.65	45.52
11	41.70	42.58	43.67	44.18	45.13	42.75	41.84	43.65	44.07	43.75	44.73	45.52
12	41.73	42.64	43.65	44.21	45.12	42.91	41.66	43.80	44.01	43.76	44.80	45.53
13	41.76	42.69	43.70	44.31	45.09	42.99	41.43	43.82	43.91	43.81	44.88	45.54
14	41.79	42.74	43.70	44.34	45.06	43.07	41.37	43.72	43.80	43.86	44.95	45.55
15	41.82	42.79	43.71	44.37	44.78	43.16	41.49	43.64	43.69	43.92	45.02	45.57
16	41.86	42.82	43.62	44.43	44.51	43.24	41.67	43.54	43.59	43.82	45.06	45.57
17	41.90	42.87	43.49	44.46	44.09	43.39	41.81	43.51	43.50	43.63	45.10	45.57
18	41.84	42.92	43.42	44.51	43.67	43.44	41.98	43.45	43.43	43.46	45.15	45.58
19	41.58	42.97	43.48	44.53	43.02	43.49	42.10	43.44	43.38	43.32	45.18	45.60
20	41.40	43.03	43.63	44.62	42.01	43.53	42.12	43.60	43.37	43.41	45.20	45.60
21	41.25	43.06	43.71	44.65	40.96	43.47	42.22	43.71	43.36	43.55	45.22	45.63
22	41.10	43.09	43.78	44.67	40.02	43.42	42.19	43.81	43.33	43.68	45.25	45.63
23	40.99	43.13	43.84	44.74	39.22	43.35	42.25	43.88	43.29	43.79	45.27	45.64
24	40.90	43.18	43.92	44.77	38.66	43.26	42.33	44.00	43.26	43.86	45.30	45.66
25	40.82	43.19	43.94	44.80	38.60	43.27	42.42	44.13	43.23	43.95	45.30	45.68
26	41.16	43.21	43.96	44.84	38.96	43.33	42.48	44.20	43.24	44.03	45.31	45.61
27	41.35	43.22	43.98	44.86	39.52	43.41	42.50	44.26	43.24	44.07	45.34	45.64
28	41.51	43.23	43.99	44.87	39.37	43.48	42.55	44.32	43.24	44.08	45.36	45.68
29	41.66	43.24	44.07	44.90	40.26	43.60	42.60	44.40	43.21	44.12	45.38	45.72
30	41.79	43.27	44.11	44.93	---	43.75	42.65	44.47	43.17	44.17	45.40	45.74
31	41.92	---	44.14	44.95	---	43.88	---	44.50	---	44.23	45.41	---
MAX	41.92	43.27	44.14	44.95	45.13	43.88	44.06	44.50	44.52	44.23	45.41	45.74
MIN	40.82	41.99	43.34	43.91	38.60	40.58	41.37	42.70	43.17	43.18	44.28	45.42

WTR YR 2000 HIGH 38.60 LOW 45.74

GROUND-WATER LEVELS

JEFFERSON COUNTY

382039085375201. Local number (WP-7), map number 23--Continued



GROUND-WATER LEVELS

JEFFERSON COUNTY

382051085380801. (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: 1120TSH.

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 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, 17.73 ft below land-surface datum, Jul. 18, 2000; lowest measured, 21.06 ft below land-surface datum, Sept. 29, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 1200 HOURS

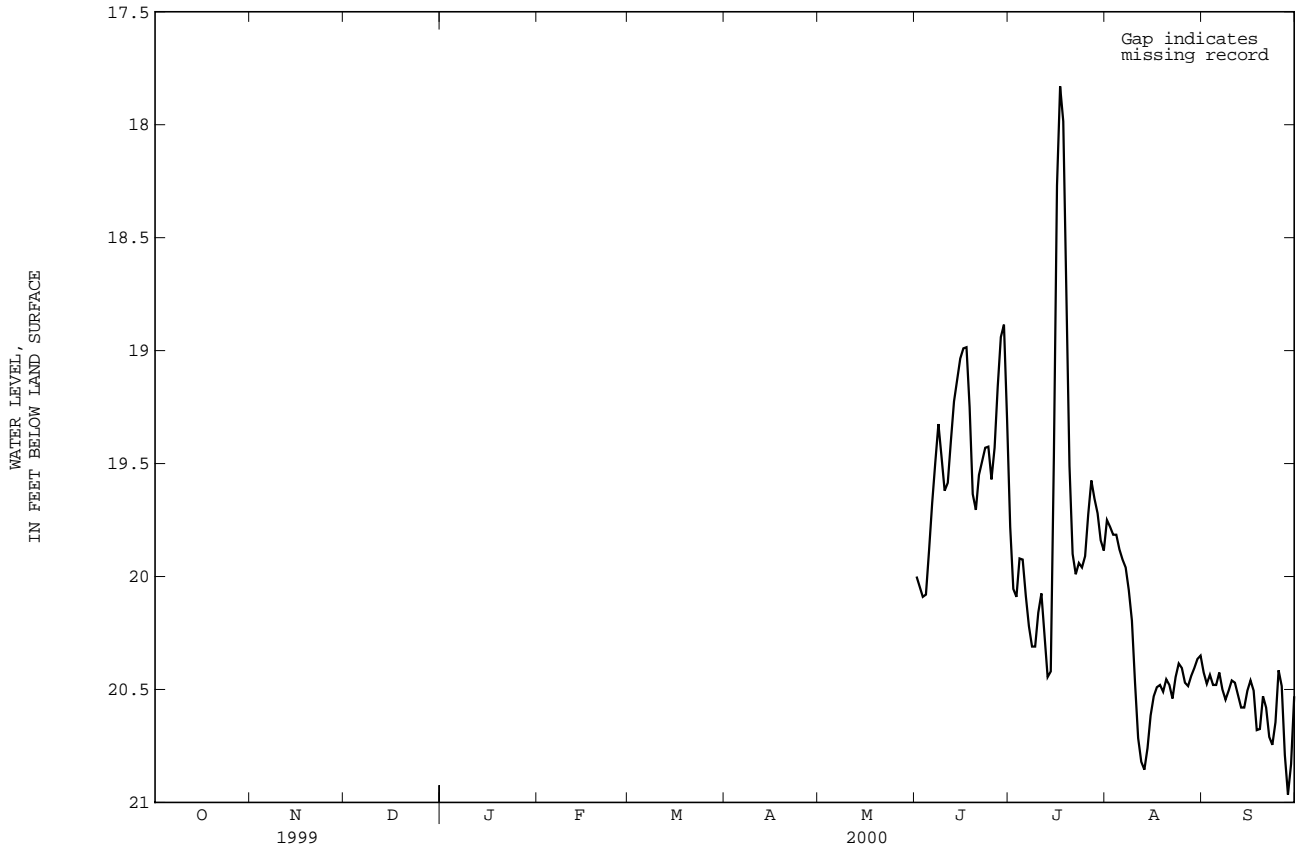
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	19.98	19.60	19.77	20.35
2	---	---	---	---	---	---	---	---	20.02	19.96	19.73	20.50
3	---	---	---	---	---	---	---	---	20.07	20.15	19.83	20.45
4	---	---	---	---	---	---	---	---	20.11	20.03	19.80	20.42
5	---	---	---	---	---	---	---	---	20.05	19.81	19.83	20.54
6	---	---	---	---	---	---	---	---	19.72	20.04	19.93	20.42
7	---	---	---	---	---	---	---	---	19.63	20.13	19.92	20.43
8	---	---	---	---	---	---	---	---	19.36	20.31	20.00	20.57
9	---	---	---	---	---	---	---	---	19.29	20.31	20.12	20.52
10	---	---	---	---	---	---	---	---	19.65	20.31	20.27	20.49
11	---	---	---	---	---	---	---	---	19.59	20.01	20.67	20.43
12	---	---	---	---	---	---	---	---	19.58	20.14	20.76	20.51
13	---	---	---	---	---	---	---	---	19.22	20.38	20.88	20.54
14	---	---	---	---	---	---	---	---	19.23	20.51	20.83	20.62
15	---	---	---	---	---	---	---	---	19.03	20.33	20.69	20.54
16	---	---	---	---	---	---	---	---	19.04	18.61	20.54	20.47
17	---	---	---	---	---	---	---	---	18.94	17.93	20.52	20.45
18	---	---	---	---	---	---	---	---	19.03	17.73	20.46	20.56
19	---	---	---	---	---	---	---	---	19.47	18.24	20.50	20.80
20	---	---	---	---	---	---	---	---	19.80	19.27	20.52	20.55
21	---	---	---	---	---	---	---	---	19.61	19.75	20.39	20.51
22	---	---	---	---	---	---	---	---	19.49	20.05	20.57	20.65
23	---	---	---	---	---	---	---	---	19.49	19.93	20.51	20.77
24	---	---	---	---	---	---	---	---	19.37	19.95	20.38	20.72
25	---	---	---	---	---	---	---	---	19.48	19.97	20.39	20.57
26	---	---	---	---	---	---	---	19.63	19.66	19.85	20.42	20.26
27	---	---	---	---	---	---	---	---	19.20	19.60	20.52	20.71
28	---	---	---	---	---	19.18	---	---	19.12	19.55	20.45	20.87
29	---	---	---	---	---	---	---	---	18.76	19.76	20.43	21.06
30	---	---	---	---	---	---	---	---	19.01	19.68	20.38	20.60
31	---	---	---	---	---	---	---	---	---	20.00	20.35	---
MAX	---	---	---	---	---	19.18	---	19.63	20.11	20.51	20.88	21.06
MIN	---	---	---	---	---	19.18	---	19.63	18.76	17.73	19.73	20.26

WTR YR 2000 HIGH 17.73 LOW 21.06

GROUND-WATER LEVELS

JEFFERSON COUNTY

382051085380801. (LWC-1), map number 24--Continued



GROUND-WATER LEVELS

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: 1120TSH.

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 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, 43.17 ft below land-surface datum, Sept. 26, 2000.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Dec. 13, 1999	41.75	Jun. 07, 2000	42.33
Mar. 10, 2000	41.76	Sept. 26, 2000	43.17

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: 1120TSH.

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 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, 43.24 ft below land-surface datum, Jun. 2, 2000.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Dec. 13, 1999	34.51	Jun. 02, 2000	43.24
Mar. 08, 2000	39.42	Jun. 07, 2000	41.59
		Sept. 26, 2000	42.79

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: 1120TSH.

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 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, 27.43 ft below land-surface datum, Sept. 28, 2000.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Mar. 29, 2000	25.09	Jul. 31, 2000	26.51
Jun. 07, 2000	26.12	Aug. 30, 2000	27.14
Jun. 26, 2000	26.20	Sept. 28, 2000	27.43

GROUND-WATER LEVELS

413

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: 1120TSH.

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 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, 22.38 ft below land-surface datum, Sept. 27, 2000.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
May 01, 2000	19.91	Jul. 31, 2000	22.14
Jun. 07, 2000	21.64	Aug. 30, 2000	22.31
Jun. 26, 2000	21.77	Sept. 27, 2000	22.38

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: 1120TSH.

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 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 1999 TO SEPTEMBER 2000

Date	Water Level	Date	Water Level
Dec. 13, 1999	19.19	Jun. 07, 2000	19.43
Mar. 10, 2000	18.95	Aug. 21, 2000	19.66
		Sept. 26, 2000	19.49

CHEMICAL QUALITY OF PRECIPITATION

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. Values for sodium and potassium were switched for water years 1997-99.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PH	SPEC. CONDUCTANCE	CALCIUM	MAGNESIUM	POTASSIUM	SODIUM	CHLORIDE
	FIELD ATM DEP (UNITS) (83106)	FIELD ATM DEP (US/CM) (83154)	ATM DEP (MG/L) (82932)	ATM DEP (MG/L) (83002)	ATM DEP (MG/L) (83120)	ATM DEP (MG/L) (83138)	ATM DEP (MG/L) (82944)
OCT 1999							
05-12	5.48	4.4	.010	.003	<.003	.027	.04
OCT 12-19	4.10	27.8	.735	.087	.120	.016	.20
OCT 26-NOV 02	4.75	6.1	.050	.007	.004	.026	.04
NOV 02-09	4.37	11.3	.080	.012	.012	.006	.07
NOV 16-23	4.13	26.3	.412	.064	.038	.341	.42
NOV 23-30	4.08	21.3	.074	.010	.005	.042	.10
NOV 30-DEC 07	4.26	17.0	.187	.046	.028	.316	.54
DEC 07-14	4.25	14.7	.077	.006	.017	.030	.08
DEC 14-21	--	--	.180	.017	.016	.027	2.04
DEC 21-28	4.01	27.1	.339	.021	.011	.039	.51
DEC 28 1999-JAN 04 2000	4.30	11.6	.052	.008	.011	.057	1.09
JAN 04-10	4.09	21.4	.140	.012	.019	.059	.14
JAN 11-18	4.30	13.5	.142	.160	.012	.070	.12
JAN 18-25	4.18	18.2	.074	.006	.006	.024	.05
JAN 25-FEB 01	4.35	11.0	.053	.004	.003	.025	.08
FEB 01-08	3.90	40.8	.190	.020	.010	.083	.36
FEB 08-15	4.44	15.6	.180	.048	.350	.151	.33
FEB 15-22	4.27	13.4	.096	.015	.015	.095	.12
FEB 22-29	6.88	29.7	.334	.116	1.31	.287	.46
FEB 29-MAR 07	4.29	19.3	.281	.045	.119	.094	.17
MAR 07-14	4.03	24.1	.265	.027	.053	.085	.14
MAR 14-21	4.12	22.2	.265	.042	.330	.172	.30
MAR 21-28	3.85	34.5	.173	.025	.026	.057	.12
MAR 28-APR 04	6.63	10.3	.122	.093	.690	.034	.13
APR 04-11	6.23	29.6	.637	.253	2.02	.238	.45
APR 11-18	4.72	9.9	.167	.075	.400	.051	.12
APR 18-25	6.24	25.3	.918	.265	1.33	.134	.31

CHEMICAL QUALITY OF PRECIPITATION

380706083324900 - CLARK STATE FISH HATCHERY, ROWAN COUNTY, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SULFATE	NI-TROGEN	NI-TROGEN	PHOS-	TOTAL	VOLUME
	ATM DEP	AMMON.	NITRATE	PHORUS	PRECIP-	
	WET DIS	ATM DEP	ATM DEP	ORTHO	ITATION	
	AS SO4	WET DIS	WET DIS	AS PO4	FOR	
(MG/L)	AS NH4	AS NO3	(MG/L)	DEFINED	ATM DEP	
(83160)	(83047)	(83071)	(83111)	PERIOD	WET	
				(IN)	(L)	
				(00193)	(83177)	
OCT 1999						
05-12	.33	.040	.22	<.003	2.10	3.644
OCT						
12-19	4.40	.850	2.52	<.003	.10	.174
OCT 26-						
NOV 02	.41	.040	.36	<.003	.85	1.467
NOV						
02-09	1.26	.110	.56	<.003	1.25	1.985
NOV						
16-23	2.30	.340	2.00	<.003	.08	.147
NOV						
23-30	2.00	.140	1.00	<.003	1.20	2.072
NOV 30-						
DEC 07	1.57	.140	.93	<.003	.40	.657
DEC						
07-14	1.26	.100	.80	<.003	2.35	4.021
DEC						
14-21	.09	.480	4.20	<.003	.04	.069
DEC						
21-28	.16	.140	4.67	<.003	.05	.088
DEC 28 1999-						
JAN 04 2000	.09	.170	.59	<.003	1.67	2.891
JAN						
04-10	2.01	.150	1.89	.000	.05	.074
JAN						
11-18	1.00	.220	1.60	.000	.20	.319
JAN						
18-25	1.08	.170	2.06	.000	.11	.167
JAN 25-						
FEB 01	.86	.000	.62	.000	.42	.700
FEB						
01-08	3.10	1.15	4.82	<.003	.07	.071
FEB						
08-15	1.59	.380	1.09	.034	1.27	2.211
FEB						
15-22	1.25	.160	.76	<.003	2.90	4.749
FEB						
22-29	3.00	6.25	1.52	1.88	.22	.338
FEB 29-						
MAR 07	1.92	.140	1.41	<.003	.11	.180
MAR						
07-14	2.42	.290	1.60	<.003	.82	1.428
MAR						
14-21	2.25	.430	1.69	.121	1.47	2.553
MAR						
21-28	3.40	.500	2.73	<.003	.12	.209
MAR 28-						
APR 04	1.22	1.12	1.00	.538	1.27	2.179
APR						
04-11	2.80	4.62	1.44	2.49	.66	1.181
APR						
11-18	1.20	.710	.98	.275	1.05	1.780
APR						
18-25	3.61	2.78	2.09	1.74	.77	1.351

CHEMICAL QUALITY OF PRECIPITATION

380706083324900 - CLARK STATE FISH HATCHERY, ROWAN COUNTY, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PH		SPEC. CONDUCTANCE		MAGNESIUM		POTASSIUM		SODIUM		CHLORIDE	
	FIELD	FIELD	FIELD	FIELD	ATM DEP	ATM DEP	ATM DEP	ATM DEP	ATM DEP	ATM DEP	ATM DEP	ATM DEP
	WET T (UNITS) (83106)	WET TOT (US/CM) (83154)	ATM DEP (MG/L) (82932)	WET DIS (MG/L) (83002)	ATM DEP (MG/L) (83120)	WET DIS (MG/L) (83138)	ATM DEP (MG/L) (83138)	WET DIS (MG/L) (83138)	ATM DEP (MG/L) (83138)	WET DIS (MG/L) (83138)	ATM DEP (MG/L) (82944)	WET DIS (MG/L) (82944)
APR 25- MAY 02	3.67	75.3	.265	.064	.360	.233	.59					
MAY 02-09	4.61	19.1	.468	.058	.189	.102	.21					
MAY 09-16	6.83	36.0	.858	.227	1.54	.363	.62					
MAY 16-23	6.62	36.2	.857	.310	1.22	.145	.32					
MAY 23-30	4.33	15.2	.158	.036	.034	.218	.32					
MAY 30- JUN 06	4.04	46.2	.810	.101	.076	.074	.23					
JUN 06-13	3.55	66.4	.774	.115	.101	.539	.59					
JUN 13-20	4.19	9.0	.041	.009	.010	.046	.08					
JUN 20-27	3.83	24.0	.256	.035	.042	.099	.16					
JUN 27- JUL 04	3.81	21.8	.077	.009	.009	.016	.06					
JUL 04-11	4.12	16.9	.188	.050	.400	.085	.14					
JUL 11-18	4.27	20.0	.333	.052	.134	.014	.07					
JUL 18-25	3.93	58.9	.443	.032	.026	.036	.17					
JUL 25- AUG 01	3.71	21.0	.149	.011	.014	.008	.06					
AUG 01-08	3.83	27.6	.433	.030	.042	.032	.12					
AUG 08-15	3.28	29.2	.253	.025	.037	.065	.14					
AUG 15-22	4.18	46.5	.682	.074	.097	.115	.22					
AUG 22-29	--	--	.764	.063	.081	.073	.23					
AUG 29- SEP 05	3.99	40.1	.766	.070	.015	.023	.22					
SEP 05-12	5.27	9.1	.043	.008	<.003	.049	.09					
SEP 12-19	4.33	22.4	.373	.051	.025	.326	.44					
SEP 19-26	4.36	22.9	.073	.008	.013	.023	.07					

CHEMICAL QUALITY OF PRECIPITATION

380706083324900 - CLARK STATE FISH HATCHERY, ROWAN COUNTY, KY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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)
APR 25- MAY 02	8.41	2.34	8.27	.093	.17	.244
MAY 02-09	2.92	1.54	2.85	<.003	.20	.250
MAY 09-16	3.35	7.50	1.70	2.39	.17	.278
MAY 16-23	3.49	4.22	2.24	2.64	.54	.958
MAY 23-30	1.51	.350	1.38	<.003	1.35	2.413
MAY 30- JUN 06	6.70	2.21	4.96	<.003	.27	.463
JUN 06-13	6.74	1.92	4.62	<.003	.27	.218
JUN 13-20	.89	.180	.65	<.003	4.22	7.321
JUN 20-27	2.29	.290	1.90	<.003	.67	1.154
JUN 27- JUL 04	2.10	.260	.94	<.003	.85	1.489
JUL 04-11	2.23	.190	1.15	.026	4.55	7.722
JUL 11-18	2.60	.410	1.28	<.003	2.77	4.786
JUL 18-25	5.19	.610	4.07	<.003	.35	.566
JUL 25- AUG 01	1.93	.210	1.18	<.003	3.20	5.562
AUG 01-08	2.88	.450	2.21	<.003	.16	.274
AUG 08-15	3.02	.430	1.89	<.003	--	4.009
AUG 15-22	4.80	.780	3.91	<.003	.24	.406
AUG 22-29	4.23	.950	5.77	<.003	.02	.044
AUG 29- SEP 05	3.79	.210	3.74	<.003	.10	.241
SEP 05-12	.67	.050	.70	<.003	.80	1.438
SEP 12-19	2.08	.120	1.94	<.003	.07	.170
SEP 19-26	2.74	.170	1.30	<.003	1.57	2.707

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

STATION NAME AND LOCATION	STATION NUMBER	DRAINAGE		PERIOD OF RECORD	COMPLETE FLOW	COM- PLETE STAGE	PEAK FLOW	LOW FLOW	MISC FLOW MEAS
		AREA (MI ²)							
CARD CR AT MOUTH CARD, 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 1989-92	E		E	E	
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 1972-81				E	
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 1972-81					E
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 1972-81					E
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 CANNONSBURG, 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 1980-81				E	
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
LOCUST CR NR AUGUSTA, KY	03238660	41.70	1980-81 1975-78				E	
TWELVEMILE CR NR CALIFORNIA, KY	03238750	44.30	1980-81 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, 1994-97	E	E	E	E	
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 1981				E	
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 1928-31 1936-87 1938-94	E E E E	E E E E			
TRIPLETT CR AT MOREHEAD, KY	03250000	47.5	1941-82 1989-92	E E		E E	E E	
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 JEFFERSVILLE, 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 1939-94	E E	E E	E E	E E	
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 BLACKKEY, KY	03277340	131.00	1965-65 1972-81				E	
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	
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			
LULBGRUD CR TRIB AT WESTBEND, KY	03283610	.33	1975-86					
LULBGRUD 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 BEREIA, 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		PERIOD OF RECORD	COMPLETE FLOW	COM- PLETE STAGE	PEAK FLOW	LOW FLOW	MISC FLOW MEAS
		AREA (MI ²)							
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 1989-99	E	E	E	E	
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 1957 1962 1972-81				E	
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 TAYLORSVILLE, KY	03295580	53.20		1974-76				E	
SALT R AT TAYLORSVILLE, KY	03295610	359.00		1937-75 1972-76				E	
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 1980-81				E	
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		PERIOD OF RECORD	COMPLETE FLOW	COM- PLETE STAGE	PEAK FLOW	LOW FLOW	MISC FLOW MEAS
		AREA (MI ²)							
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 1980-81				E	
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	03306000	682		1930-32 1963-94	E	E			
GREEN R AT GREENSBURG, KY	03306500	736.00		1939-75*	E	E	E		
WHITE OAK CR TR NR MONTEPELIER, 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 1980-81				E	
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 1980-81				E	
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	
MCDUGAL 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 1936-92	E		E	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
BEAVERDAM CR NR RHODA, KY	03311600	10.9	1961-72 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 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 1961-81		E			
MUD R NR HUNTSVILLE, KY	03316275	268	1974-80 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 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 1977-80		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 1991-94		E			E
ROSE CR AT NEBO, KY	03384000	2.10	1952-70*	E	E	E		
TRADEWATER R	03384180	861	1975-80 1980-81	E	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	

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

STATION NAME AND LOCATION	STATION NUMBER	DRAINAGE		PERIOD OF RECORD	COMPLETE FLOW	COM- PLETE STAGE	PEAK FLOW	LOW FLOW	MISC FLOW MEAS
		AREA (MI ²)							
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	
JELICO CR NR WILLIAMSBURG, KY	03404200	103.00		1953-72				E	
MARSH CR NR WHITELY CITY, KY	03404390	72.00		1960-61				E	
CUMBERLAND R AT CUMBERLAND FALLS, KY	03404500	1,977		1974-81					
				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		PERIOD OF RECORD	COMPLETE FLOW	COM- PLETE STAGE	PEAK FLOW	LOW FLOW	MISC FLOW MEAS
		AREA (MI ²)							
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.	PHY.	SED.	CHEM-
				AC- TIVE STA- TUS	AC- TIVE STA- TUS	AC- TIVE STA- TUS	ICAL AC- TIVE STA- TUS
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 1982-84			N 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	N
JONES FK AT BETTY, KY	03209603		1980-82		N	N	N
SALTICK 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 PRESTONSBURG, 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.	PHY.	SED.	CHEM-
				AC-TIVE STA-TUS	AC-TIVE STA-TUS	AC-TIVE STA-TUS	ICAL AC-TIVE STA-TUS
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		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		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		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		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.	PHY.	SED.	CHEM-
				AC-TIVE STA-TUS	AC-TIVE STA-TUS	AC-TIVE STA-TUS	ICAL AC-TIVE STA-TUS
			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 BLACKKEY, 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 VANCELEAVE, 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.	PHY.	SED.	CHEM-
				AC-TIVE STA-TUS	AC-TIVE STA-TUS	AC-TIVE STA-TUS	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	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	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	N
BOONE CR AT GRIMES MILL RD NR LOCUST GROVE, KY	03284100	41.80	1967-68		N	N	N
KENTUCKY R NR LEXINGTON, KY	03284105		1970				N
SILVER CR NR KINGSTON, KY	03284300	28.60	1978-83		N	N	N
SILVER CR NR RICHMOND, KY	03284350		1973-75		N	N	N
PAINT LICK CR NR MCCREARY, KY	03284450	97.60	1970-72		N	N	N
KENTUCKY R AT LOCK 8 NR CAMP NELSON, KY	03284500	4414.00	1948-75		N	N	N
DIX R NR STANFORD, KY	03284800	160.00	1973-75		N	N	N
HANGING F CR NR STANFORD, KY	03284935	46.90	1974		N	N	N
DIX R NR DANVILLE, KY	03285000	318.00	1988		N	N	N
DIX R AT DIX DAM NR BURGIN, KY	03286200	439.00	1961-79		N	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	N
BENSON CR NR FRANKFORT, KY	03287550	107.00	1970-72		N	N	N
N ELKHORN CR AT BRYAN STATION RD AT MONTROSE, KY	03287600	21.50	1967-68		N	N	N
N ELKHORN CR UNNAMED TR AT MUIR STA RD NR MUI, KY	03287620	15.80	1967-68		N	N	N
N ELKHORN CR AT HUFFMAN MILL RD NR MATTOXTOWN, KY	03287700	62.70	1967-68		N	N	N
GOOSE CR AT MT HOREB RD NR NEWTOWN, KY	03287800	14.20	1967-68		N	N	N
GOOSE CR AT NEWTOWN RD, NR NEW ZION, KY	03287810		1967		N	N	N
N ELKHORN CR NR GEORGETOWN, KY	03288000	119.00	1988-89		N	N	N
CANE RUN AT BEREAD ROAD NR DONERAIL, KY	03288200	19.90	1967-68		N	N	N
CANE RUN NR GEORGETOWN, KY	03288260	45.40	1973		N	N	N
CAVE CR NR FORT SPRING, KY	03288500	2.53	1968		N	N	N
STEELES RUN AT OLD FRANKFORT RD AT FAYWOOD, KY	03289100	6.67	1967-68		N	N	N
TOWN BRANCH AT YARNALLTON RD AT YARNALLTON, KY	03289200		1967-68		N	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	N
SIX MILE CR NR LOCKPORT, KY	03290490	76.50	1973-74		N	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	N
EAGLE CR NR HOLBROOK, KY	03291270	258.00	1973-75		N	N	N
TEN MILE CR NR FOLSOM, KY	03291490	68.40	1973		N	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	N
HARRODS CR NR SKYLIGHT, KY	03292467	60.30	1974-75		N	N	N
HARRODS CR NR PROSPECT, KY	03292473	92.1	1988-98		N	N	N
GOOSE CR AT OLD WESTPORT RD AT ST. MATTHEWS, KY	03292474		1988-98		N	N	N
GOOSE CR AT U.S. HWY 42 AT GLENVIEW ACRES, KY	03292475	10.1	1988-98		N	N	N
LITTLE GOOSE CR NR HARRODS CR, KY	03292480	5.8	1988-98		N	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	N
			95-98				
S. FK. BEARGRASS CR NR EASTERN PKY AT LOUISVILLE, KY	03292530	21.6	1995-98		N	N	N
S. FK BEARGRASS CR NR WINTER AVE., KY.	03292550	22.6	1988-98		N	N	N
MIDDLE FK BEARGRASS CR AT LOUISVILLE, KY	03293000	18.9	1988-92,		N	N	N
			96-98				
M. FK. BEARGRASS CR NR SCENIC LOOP AT LOUISVILLE, KY	03293200	22.7	1988-98		N	N	N
M. FK. BEARGRASS CR NR LEXINGTON RD AT LOUISVILLE, KY	03293500	24.4	1996-98		N	N	N
MUDDY FK. MOCKINGBIRD VALLEY RD AT LOUISVILLE, KY	03293550	6.2	1988-98		N	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	N

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

STATION NAME AND NUMBER	STATION NUMBER	DRAINAGE AREA (MI ²)	PERIOD OF RECORD	BIO.	PHY.	SED.	CHEM-
				AC- TIVE STA- TUS	AC- TIVE STA- TUS	AC- TIVE STA- TUS	ICAL AC- TIVE STA- TUS
MILL CR AT ORELL RD NR LOUISVILLE, 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		N
			1992-96				
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.	PHY.	SED.	CHEM-
				AC- STA-TUS	AC- STA-TUS	AC- STA-TUS	ICAL AC- 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
MCDUGAL 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 RHODES 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		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		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		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

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STATION NAME AND NUMBER	STATION NUMBER	DRAINAGE AREA (MI ²)	PERIOD OF RECORD	BIO.	PHY.	SED.	CHEM-
				AC- TIVE STA- TUS	AC- TIVE STA- TUS	AC- TIVE STA- TUS	ICAL AC- TIVE STA- TUS
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
NOBLICK 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		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		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		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.	PHY.	SED.	CHEM-
				AC- TIVE STA- TUS	AC- TIVE STA- TUS	AC- TIVE STA- TUS	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		
BROWNICR CR NR OAKS, KY	03401290		1980-82		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.	PHY.	SED.	CHEM-
				AC- TIVE STA- TUS	AC- TIVE STA- TUS	AC- TIVE STA- TUS	ICAL AC- TIVE STA- TUS
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

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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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