



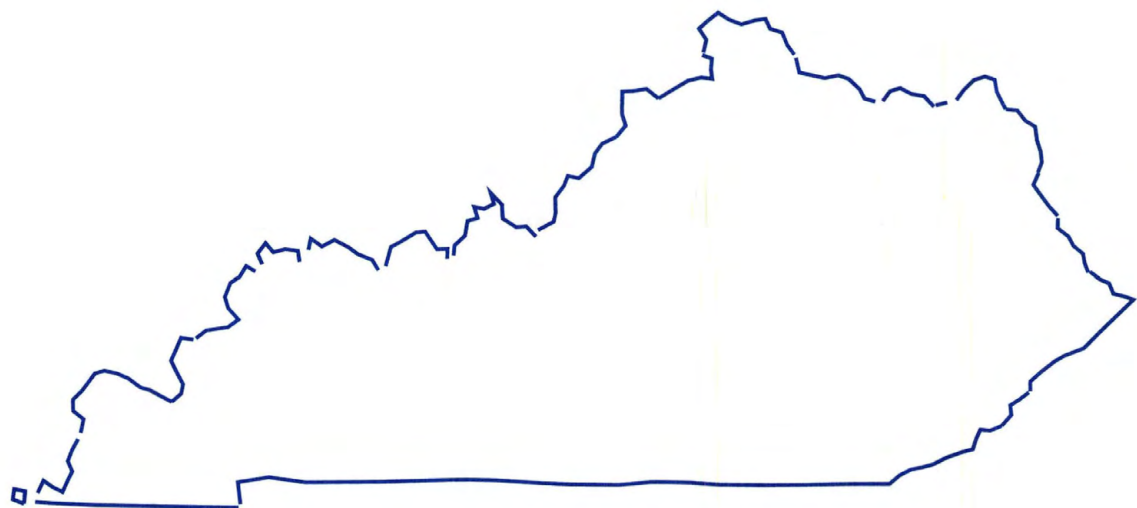
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Water Resources Data Kentucky Water Year 1996

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

CALENDAR FOR WATER YEAR 1996

1995

OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9
15	16	17	18	19	20	21	11	12	13	14	15	16	17	10	11	12	13	14	15	16
22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23
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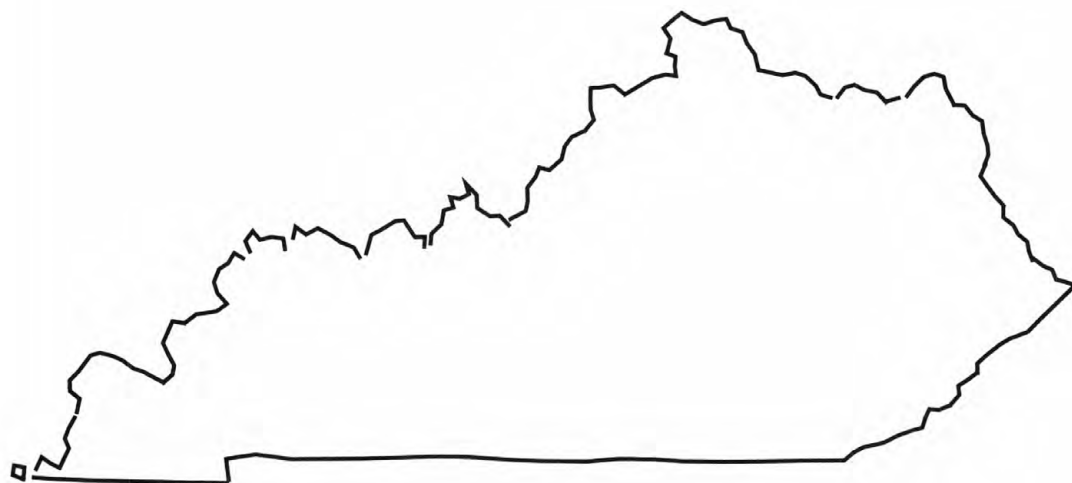
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JANUARY							FEBRUARY							MARCH						
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7	8	9	10	11	12	13	4	5	6	7	8	9	10	3	4	5	6	7	8	9
14	15	16	17	18	19	20	11	12	13	14	15	16	17	10	11	12	13	14	15	16
21	22	23	24	25	26	27	18	19	20	21	22	23	24	17	18	19	20	21	22	23
28	29	30	31				25	26	27	28	29			24	25	26	27	28	29	30
														31						
APRIL							MAY							JUNE						
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7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8
14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22
28	29	30					26	27	28	29	30	31		23	24	25	26	27	28	29
														30						
JULY							AUGUST							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6					1	2	3	1	2	3	4	5	6	7
7	8	9	10	11	12	13	4	5	6	7	8	9	10	8	9	10	11	12	13	14
14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21
22	23	24	25	26	27		18	19	20	21	22	23	24	22	23	24	25	26	27	28
28	29	30	31				25	26	27	28	29	30	31	29	30					



Water Resources Data Kentucky Water Year 1996

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



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT KY-96-1
Prepared in cooperation with the Commonwealth of
Kentucky and with other agencies

U.S. DEPARTMENT OF THE INTERIOR
BRUCE BABBITT, Secretary

U.S. Geological Survey
Gordon P. Eaton, Director

For additional information write to:

District Chief, Water Resources Division
U.S. Geological Survey
9818 Bluegrass Parkway
Louisville, Kentucky 40299-1906

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.

The data were collected, computed, and processed by the following personnel:

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This report was prepared in cooperation with the Commonwealth of Kentucky and with other agencies under the general supervision of Harry C. Rollins, Assistant District Chief, and Randolph B. See, District Chief, Kentucky.

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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
	STATION NUMBER
OHIO RIVER BASIN	
Ohio River:	
BIG SANDY RIVER BASIN	
Levisa Fork (head of Big Sandy River):	
Grapevine Creek near Phyllis (d)	0320796539
Russell Fork at Haysi, VA (d)	0320850040
Levisa Fork at Pikeville (d)	0320950041
Johns Creek near Meta (d)	0321000042
Levisa Fork at Paintsville (d)	0321250043
LITTLE SANDY RIVER BASIN	
Little Sandy River at Grayson (d)	0321650044
Ohio River at Greenup Dam (d)	0321660045
TYGARTS CREEK BASIN	
Tygarts Creek near Greenup (d)	0321700046
KINNICONICK CREEK BASIN	
Kinniconick Creek at Tannery (d)	0323725047
LICKING RIVER BASIN	
Licking River near Salyersville (d)	0324850048
North Fork Licking River near Mt. Olivet (d)	0325120049
South Fork Licking River:	
Hinkston Creek near Carlisle (d)	0325230050
Licking River at Catawba (d)	0325350051
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Leatherwood Creek at Daisy (d)	0327740053
North Fork Kentucky River at Jackson (d)	0328000054
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Goose Creek at Manchester (d)	0328110058
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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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[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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380706083324900	259
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WATER RESOURCES DATA - KENTUCKY, 1996

INTRODUCTION

Water resources data for the 1996 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 85 stream-gaging stations. It also includes water-quality data for 33 stations sampled at regular intervals. Ground-water levels are published for 11 recording and 70 partial 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 1996, 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 KY 96-1." 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

Kentucky Natural Resources and Environmental Protection Cabinet, James E. Bickford, Secretary,
Roy A. Massey, Deputy Secretary;

Kentucky River Authority, Thomas Dorman, Chairman of the Governing Board;

Bullitt County, John Harper, Judge/Executive;

City of Elizabethtown, Patricia Durbin, Mayor;

City of Georgetown, Warren Powers, Mayor;

City of Glasgow, Charles B. Honeycutt, Mayor;

City of Louisville, Jerry E. Abramson, Mayor; and

Louisville and Jefferson County Metropolitan Sewer District, Gordon R. Garner, Executive Director.

Assistance in the form of funds or services was given by the U.S. Army Corps of Engineers.

The Kentucky Utilities Company and the Public Service Company of Indiana aided in collecting records.

Organizations that supplied data are acknowledged in station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS

Surface Water

Monthly and annual mean streamflow for the 1996 water year and the period of record are shown in figure 1 for three representative streamflow-gaging stations on streams in Kentucky. Annual mean streamflow for 1996 was above or near equal to the long-term average across the State except for two stations in the extreme western part of the State that were below the long-term average.

Based on flow data collected at 21 surface-water gaging stations across Kentucky, annual peak flows during the 1996 water year had about a 2-year recurrence interval (table 1). Localized rains caused peak flow at one site in the eastern part of the state to exceed the 2-year recurrence interval, one site in the central part of the State to exceed the 100-year recurrence interval, one site in the north-central part of the State to exceed the 5-year recurrence interval, and one site in the western part of the State to exceed the 2-year recurrence interval. Base flows in the 1996 water year were less than the 2-year recurrence interval; however, one site in the north central part of the State had greater than a 2-year recurrence interval and one had greater than a 20-year recurrence interval.

Quality of Water

Four types of quality control (QC) samples—equipment blanks, concurrent replicates, splits, field matrix spikes—were utilized to evaluate the results of environmental samples collected at two National Stream-Quality Accounting Network stations (Ohio River at Cannelton, 03303280; Ohio River at Lock and Dam 53, 03612500) during Water Year 1996. The QC results for these stations are presented on pages 129-136 and 206-213, respectively.

Equipment blanks are used to determine proper cleaning procedures, shipping and handling procedures, as well as laboratory contamination. Concurrent replicates are two or more samples collected as close as possible in space and time, but processed, handled, and analyzed separately. This type of sample is used to provide information about the total variability in the observed concentrations. Splits are QC samples generated from the environmental or concurrent samples used to mainly address precision in the field as well as laboratory procedures. Field matrix spikes are environmental samples fortified in the field with known concentrations of selected analytes. This type of QC sample provides information on field procedures and matrix effects on analytes of interest.

Two equipment blanks were processed at station 03303280, one on January 12 and the other on August 28. Results for these samples were at or near the respective method detection limit. Concurrent replicate samples were collected at station 03303280 on April 24 (with splits), May 22, and June 26. At station 03612500, concurrent replicate samples were collected on March 7, May 8 (with splits), and June 6. A field matrix spike was submitted for analysis on May 22 for station 03303280 and on May 23 for station 03612500.

The QC data for replicate samples, except pesticides, were evaluated by computing absolute relative percent differences (RPD) between duplicates as follows:

$$RPD = |R1 - R2| / [(R1 + R2) / 2] * 100$$

where

R1 is the environmental sample result, and

R2 is the replicate sample result.

Differences between replicates expressed as absolute RPD ranged from 0 to 100 for a very few constituents with the largest RPD determined for Molybdenum at station 03612500 on June 6. Results for many constituents, particularly for metals were below their respective method detection level.

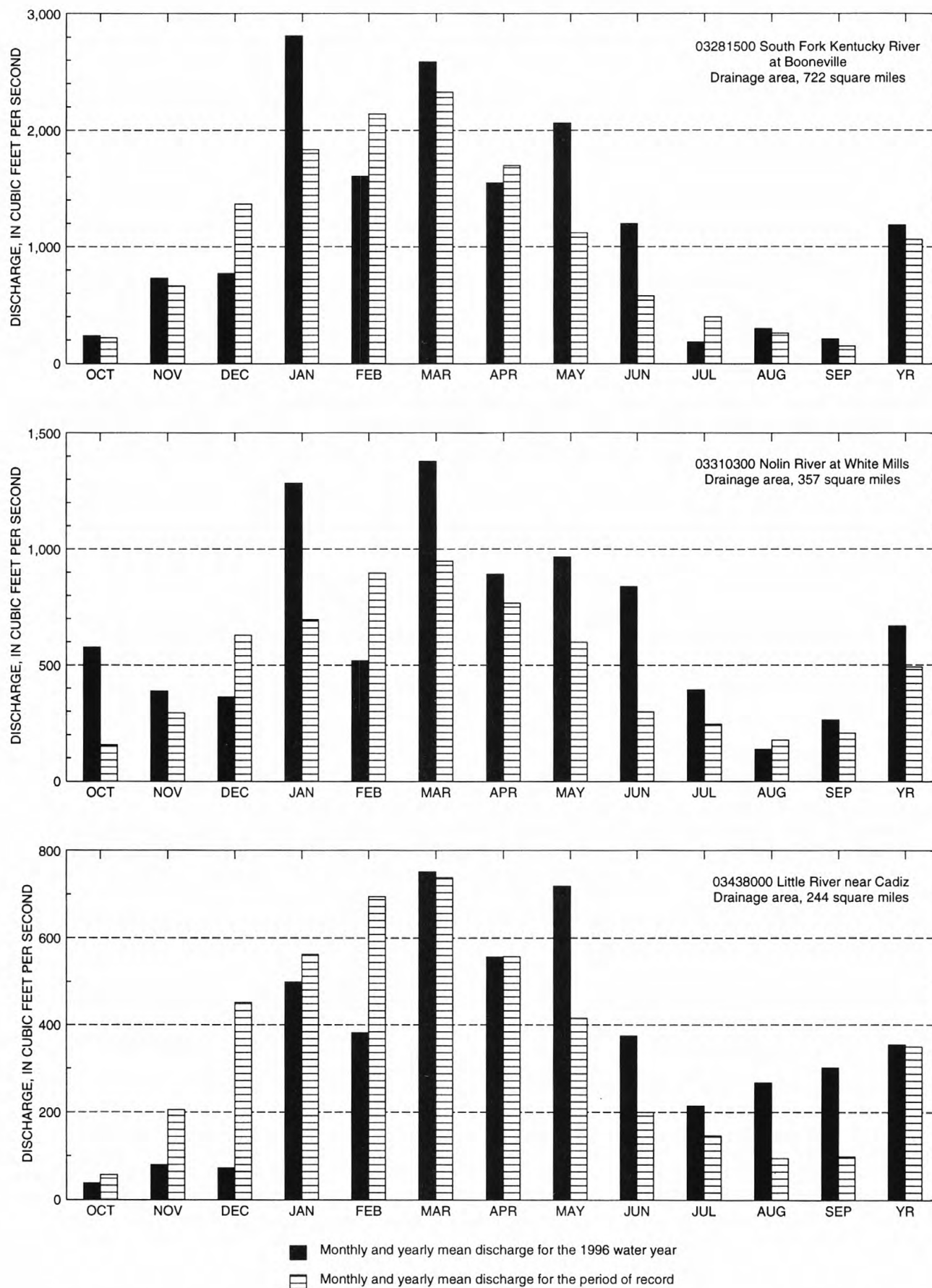


FIGURE 1.—MEAN DISCHARGE DURING 1996 WATER YEAR AND PERIOD OF RECORD FOR THREE REPRESENTATIVE GAGING STATIONS.

Table 1. Mean, maximum, and minimum streamflow for water year 1996 and recurrence intervals at selected stations.

Station number	Length of record (years)	Mean		Maximum		Minimum	
		Daily streamflow (ft³/s)	Percent of average	Peak streamflow (ft³/s)	Recurrence interval (years)	Daily streamflow (ft³/s)	Recurrence interval (years)
<u>TYGARTS CREEK BASIN</u>							
03217000	56	455	146	8980	>2	4.2	<2
<u>LICKING RIVER BASIN</u>							
03248500	56	184	106	4100	<2	5.4	<2
<u>KENTUCKY RIVER BASIN</u>							
03280700	39	92.3	98	2040	<2	2.1	<2
03281040	24	295	104	5430	<2	4.8	<2
03281100	32	289	108	5670	<2	8.0	<2
03281500	63	1187	112	17,100	<2	43	<2
03282500	41	94.8	108	1150	<2	.53	<2
03283500	59	579	116	5660	<2	17	<2
03285000	54	591	125	52,400	>100	1.6	<2
<u>BEARGRASS CREEK BASIN</u>							
03293000	52	33.2	132	2240	>5	.28	>2
<u>SALT RIVER BASIN</u>							
03298000	52	270	150	6830	<2	.30	<2
03300400	24	709	112	11,500	<2	.41	>20
03301500	58	2268	126	18,300	<2	16	<2
<u>GREEN RIVER BASIN</u>							
03307000	57	278	95	4490	<2	7.0	<2
03310300	37	668	136	6050	<2	74	<2
03320500	56	291	106	2980	<2	0.30	<2
<u>CUMBERLAND RIVER BASIN</u>							
03404900	23	114	128	2480	>2	3.2	<2
03406500	60	1012	107	15,700	<2	23	<2
03410500	54	1982	111	unknown	---	87	<2
03438000	56	355	101	3880	<2	28	<2
<u>MASSAC CREEK BASIN</u>							
03611260	25	13.0	76	1440	<2	.54	<2
<u>BAYOU DE CHIEN BASIN</u>							
07024000	51	79.2	77	1610	<2	14	<2

Ground-Water Levels

Most currently monitored observation wells tap the alluvial aquifer underlying Louisville and western Jefferson County (figs. 8 and 9). A few of the observation wells are in or near the well field of Elizabethtown, in Hardin County, Kentucky, and are used to monitor water levels in the karst aquifer used for water supply by the city (fig. 7). A few observation wells are scattered throughout the State to monitor water-level trends in the various other aquifers (fig. 7).

In general, water levels in Jefferson County remained near the levels from 1995. Ground-water levels in the alluvial aquifer underlying Louisville and western Jefferson County respond to rainfall, pumpage, river stage, and natural flow to the Ohio River. Hydrographs in figure 2 show that in the downtown area (well 381447085454001) and in the southwestern part of Louisville (well 381034085502601) water-level fluctuates because of pumpage and seasonal variations in recharge. Record high water levels were observed at 9 wells in southwest Jefferson County.

Water levels measured in most other observation wells throughout the State did not indicate any significant trend; however, record high water levels were observed at one well in Graves County and one well in Logan County, and a record low water level was observed at a well in Lincoln County.

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.

Louisville and Jefferson County Metropolitan Sewer District (MSD) Sampling Network is a network of 26 surface-water-quality sites in Jefferson County, including a control site in Bernheim Forest in Bullitt County and Otter Creek Park in Meade County. The program is a cooperative effort between the U.S. Geological Survey and MSD to (1) determine the current status of water quality in the major streams in Jefferson County, (2) identify problem stream segments and whether they are impacted by point or nonpoint sources of pollution, and (3) obtain streamflow information on these streams. The 26 sites are sampled monthly for 9 months per year. At six of the sites, continuous-record streamflow is determined.

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.

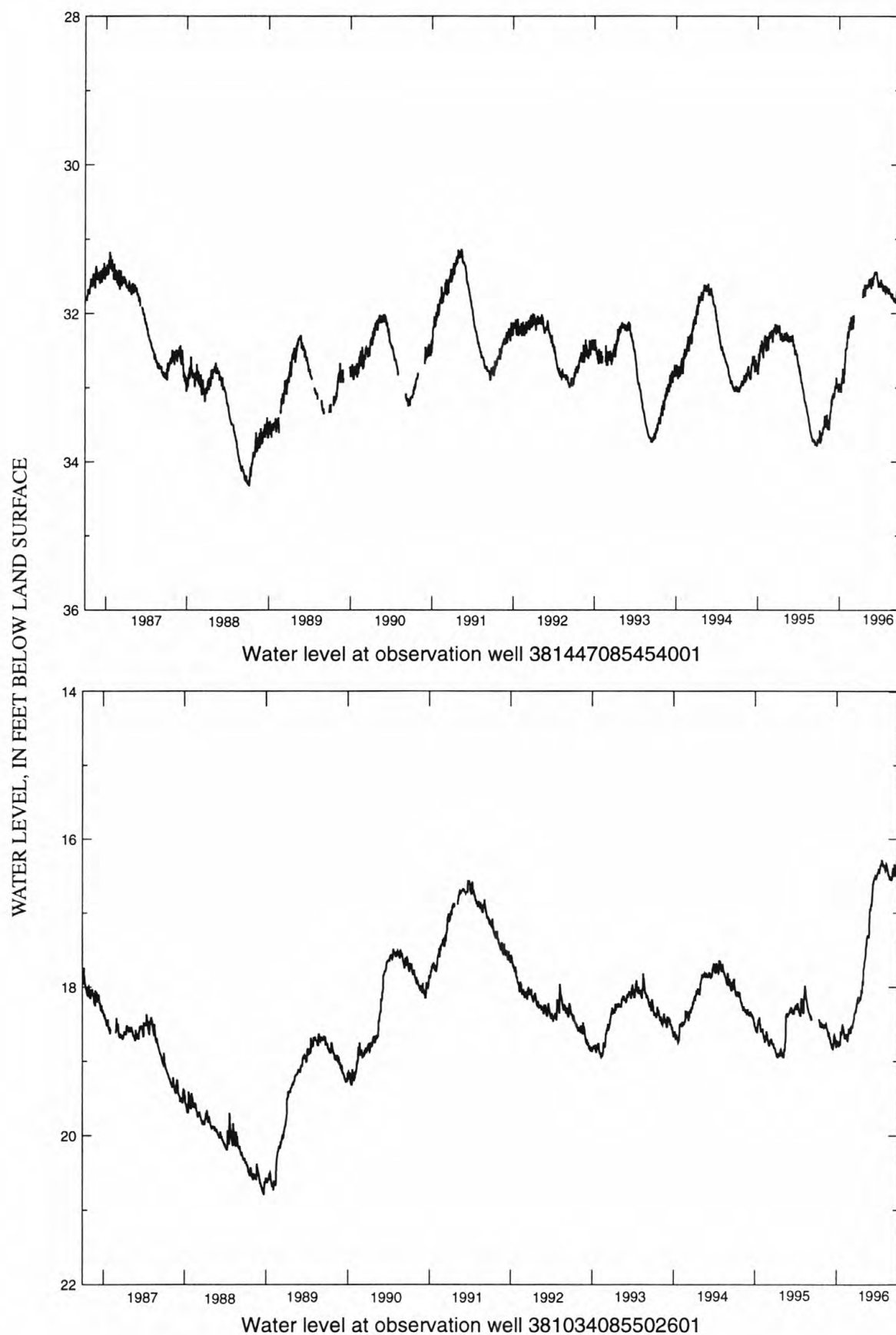


FIGURE 2.—TEN-YEAR HYDROGRAPHS OF WELLS IN DOWNTOWN LOUISVILLE AND SOUTHWEST JEFFERSON COUNTY.

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>

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 1996 water year that began October 1, 1995, and ended September 30, 1996. 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 5-10. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) 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.3).

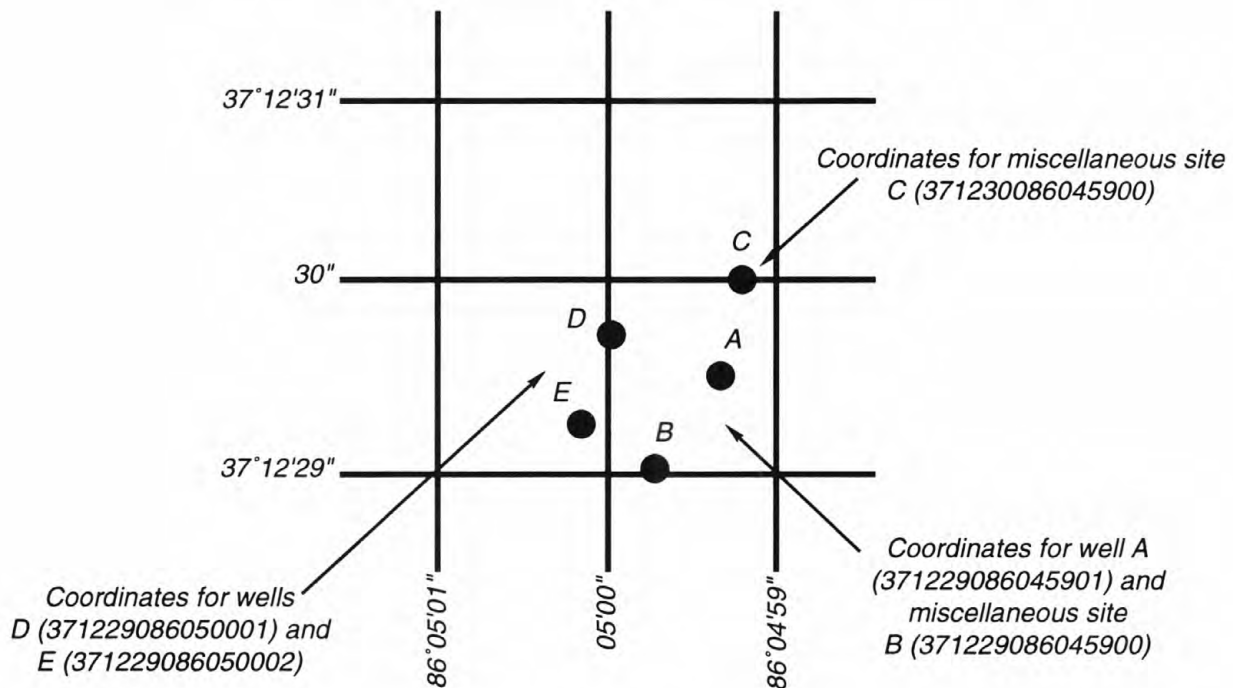


FIGURE 3.—SYSTEM FOR NUMBERING WELLS, SPRINGS, AND MISCELLANEOUS SITES (LATITUDE AND LONGITUDE).

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."

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 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. 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 5 and 6.

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).
&	Biological organism estimated as dominant.

Dissolved Trace-Element Concentrations

NOTE.-- Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (ug/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 ug/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 7-9.

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 WATSTORE DATA

The U.S. Geological Survey is the principle Federal water-data agency and, as such, collects and disseminates about 70 percent of the water data currently being used by numerous State, local, private, and other Federal agencies to develop and manage our water resources. As part of the Geological Survey's program of releasing water data to the public, a large-scale computerized system has been developed for the storage and retrieval of water data collected through its activities. The National Water Data Storage and Retrieval System (WATSTORE) was established in 1972 to provide an effective and efficient means for the processing and maintenance of water data collected through the activities of the U.S. Geological Survey and to facilitate release of the data to the public. A variety of useful products, ranging from data tables to complex statistical analyses such as Log Pearson Type III, can be produced using WATSTORE. The system resides on the central computer facilities of the U.S. Geological Survey at its National Center in Reston, Virginia, and consists of related files and data bases.

- Station Header File - Contains descriptive information on more than 440,000 sites throughout the United States and its territories where the U.S. Geological Survey collects or has collected data.
- Daily Values File - Contains more than 220 million daily values of stream flows, stages, reservoir contents, water temperatures, specific conductances, sediment concentrations, sediment discharges, and ground-water levels.
- Peak Flow File - Contains approximately 500,000 maximum (peak) streamflow and gage-height values at surface-water sites.
- Water Quality File - Contains approximately 2 million analyses of water samples that describe the chemical, physical, biological, and radio-chemical characteristics of both surface and ground water.

- Ground-Water Site Inventory Data Base - Contains inventory data for more than 900,000 wells, springs, and other sources of ground water. The data includes site location, geohydrologic characteristics, well-construction history, and one-time field measurements such as water temperature.

In 1976, the U.S. Geological Survey opened WATSTORE to the public for direct access. The signing of a Memorandum of Agreement with the Survey is required to obtain direct access to WATSTORE. The system can be accessed either synchronously or asynchronously. The requester will be expected to pay all computer costs he/she incurs. Direct access may be obtained by contacting:

U.S. Geological Survey
National Water Data Exchange
421 National Center
12201 Sunrise Valley Drive
Reston, VA 22092

In addition to providing direct access to WATSTORE, data can be provided in various machine-readable formats on magnetic tape or 5-1/4 inch floppy disk; and, as noted in the introduction, on Compact Disc - Read Only Memory (CD-ROM) discs. Beginning with the 1990 water year, all water-data reports will also be available on CD-ROM. All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc. 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's District Offices. (See address on the back of the title page.) A limited number of CD-ROM discs will be available for sale by the U.S. Geological Survey, Earth Science Information Center, Open-File Reports Section, Box 25286, MS 517, Denver Federal Center, Denver, CO 80225.

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.

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 or about 326,000 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 measure of ATP, therefore, provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multi-celled 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 base and is expressed as milligrams dry weight of algae produced per liter of sample.

Annual 7-day minimum is 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 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.)

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

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. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which 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 also 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 which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which 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.

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

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 micro-organisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the 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. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square mile (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 values are 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. The 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.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

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 natural water color 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.

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

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.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, 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 salt water.

Cubic foot per second (ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Cubic feet per second per square mile [$(\text{ft}^3/\text{s})/\text{mi}^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

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

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to that material in a representative water sample which passes through a 0.45 μm 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-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 the 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 0.492 to reflect the change.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. 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 surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary 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 particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

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

Hydrologic Bench-Mark Network is a network of 57 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 the activities of man.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an eight-digit number.

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

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

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 ($\mu\text{g/g}$) 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 liter (UG/L , $\mu\text{g/L}$) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L , mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute 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.

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 both 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.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

National Water-Quality Assessment (NAWQA) Network is a network of fixed-location and synoptic sampling stations. It is currently limited in Kentucky to the Kentucky River Basin. The U.S. Geological Survey began the National Water-Quality Assessment Program in April 1986 to (1) provide a nationally consistent description of current water-quality status, (2) define recent trends in water quality, and (3) relate past and present water-quality conditions to relevant natural features, the history of land and water use, and land- and waste-management practices. The pilot study of the Kentucky River Basin is one of four surface-water pilot studies and will be used to test, and modify as necessary, assessment concepts and approaches in preparation for future full-scale implementation of the National program.

National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the variability, both in location and in time, of the composition of atmospheric deposition, which includes snow, rain, dust particles, aerosols, and gases. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP).

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 (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

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

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

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of a particle determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) 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:

<u>Classification</u>	<u>Size (mm)</u>	<u>Method of analysis</u>
Clay.....	0.00024 - 0.004	Sedimentation
Silt.....	.004 - .062	Sedimentation
Sand.....	.062 - 2.0	Sedimentation or 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 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, mass, or volume.

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.

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

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

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 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.

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.

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 by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [$\text{mg C}/(\text{m}^2 \cdot \text{time})$] for periphyton and macrophytes and [$\text{mg C}/(\text{m}^3 \cdot \text{time})$] for phytoplankton are units for expressing primary productivity. They define 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.

Milligrams of oxygen per area or volume per unit time [$\text{mg O}/(\text{m}^2 \cdot \text{time})$] for periphyton and macrophytes and [$\text{mg O}/(\text{m}^3 \cdot \text{time})$] for phytoplankton are the units for expressing primary productivity. They define 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.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

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.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

Runoff in inches (IN., in.) 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.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it 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 the bed and very close to it. In this report, bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

Bed load discharge (tons/day) is the quantity of bed load measured by dry weight that moves past a section as bed load in a given time.

Suspended sediment is the sediment that at any given time 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).

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

Suspended-sediment discharge (tons/day) is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a 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 general term that refers to material in suspension. It is not synonymous with either 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, as measured by dry mass or volume, that passes a section during a given time.

Total-sediment load or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

7-day 10-year low flow (7 Q₁₀) is the discharge at the 10-year recurrence interval taken from a frequency curve of annual values of the lowest mean discharge for 7 consecutive days (the 7-day low flow).

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 about 65 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.

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

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.

Natural substrate refers to any naturally occurring emerged or submersed solid surface, such as a rock or tree, 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 Plexiglas strips for periphyton collection.

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimeted. All areas shown are those for the stage when the planimeted map was made.

Surficial bed material is the part (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 water-suspended sediment sample that is retained on a 0.45 um 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 water-suspended sediment sample that is retained on a 0.45 um membrane filter. 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 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.

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
<u>Genus</u>	<u>Hexagenia</u>
<u>Species</u>	<u>Hexagenia limbata</u>

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

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water 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 indicates 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) is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

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

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross-section per unit of time. This term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total, recoverable is the amount of a given constituent that is in solution after a representative water-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.

Tritium Network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

Water year in 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, 1991, is called the "1991 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.

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

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey 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.

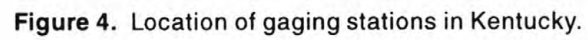
The reports listed below are for sale by the U.S. Geological Survey, Branch of Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money 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 "U.S. Geological Survey Techniques of Water-Resources Investigations."

- 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, Chapter 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, Chapter D2. 1976. 24 pages.
- 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, Chapter D1. 1974. 116 pages.
- 2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F.P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W.S. Keys and L.M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 2-E2. *Borehole geophysics applied to ground-water investigations*, by W.S. Keys: USGS--TWRI Book 2, Chapter E2. 1990. 150 pages.
- 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, Chapter F1. 1989. 97 pages.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M.A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter 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, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G.L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H.F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
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- 3-A6. *General procedure for gaging streams*, by R.W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurement at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS--TWRI Book 3, Chapter 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, Chapter A9. 1989. 27 pages.

- 3-A10. *Discharge ratings at gaging stations*, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.
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- 3-A12. *Fluorometric procedures for dye tracing*, Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 34 pages.
- 3-A13. *Computation of continuous records of streamflow*, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.
- 3-A14. *Use of flumes in measuring discharge*, by F.A. Kilpatrick and V.R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.
- 3-A16. *Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.
- 3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.
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- 3-A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 31 pages.
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- 3-B2. *Introduction to ground-water hydraulics, a programmed text for self-instruction*, by G.D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
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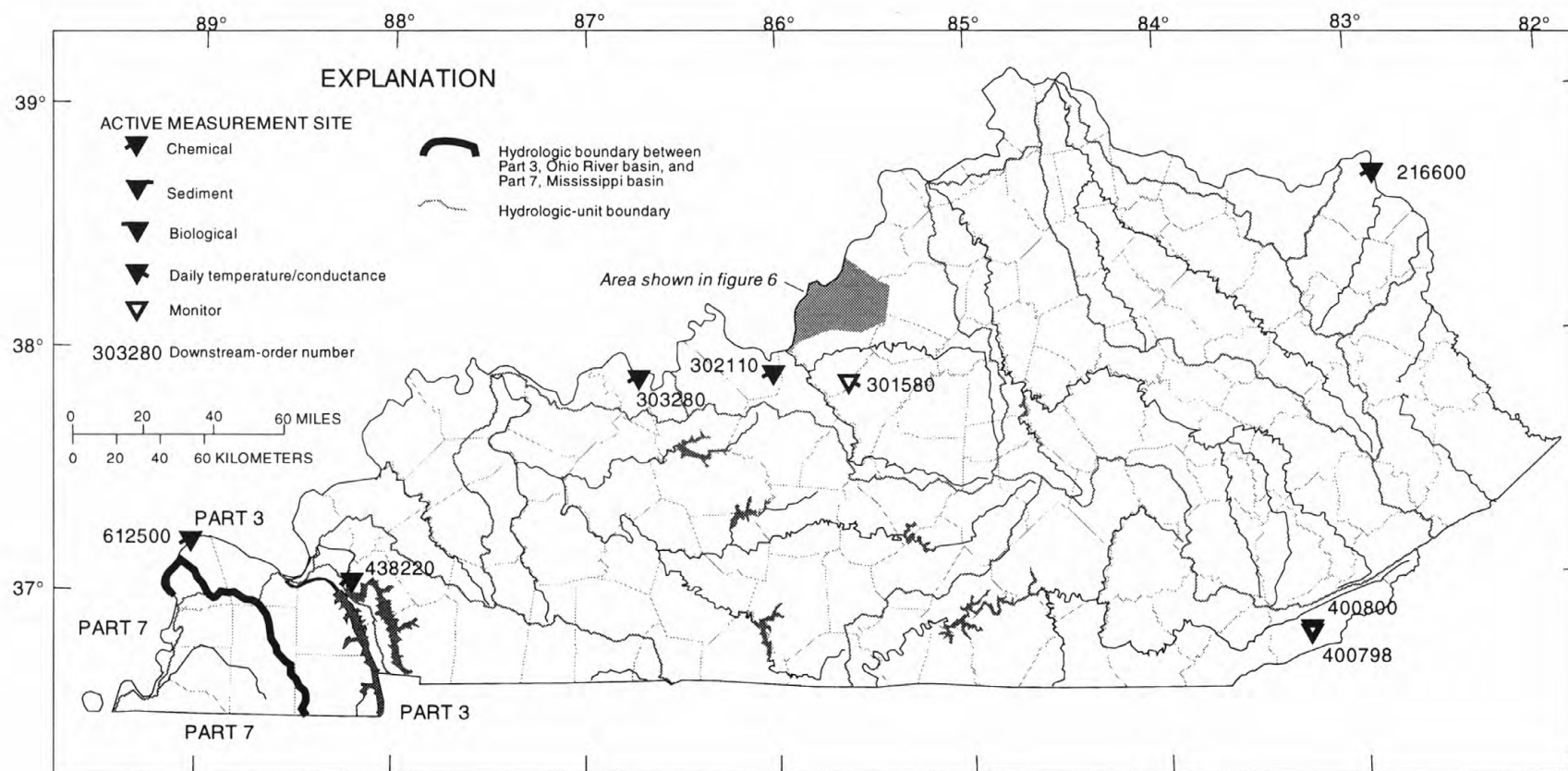
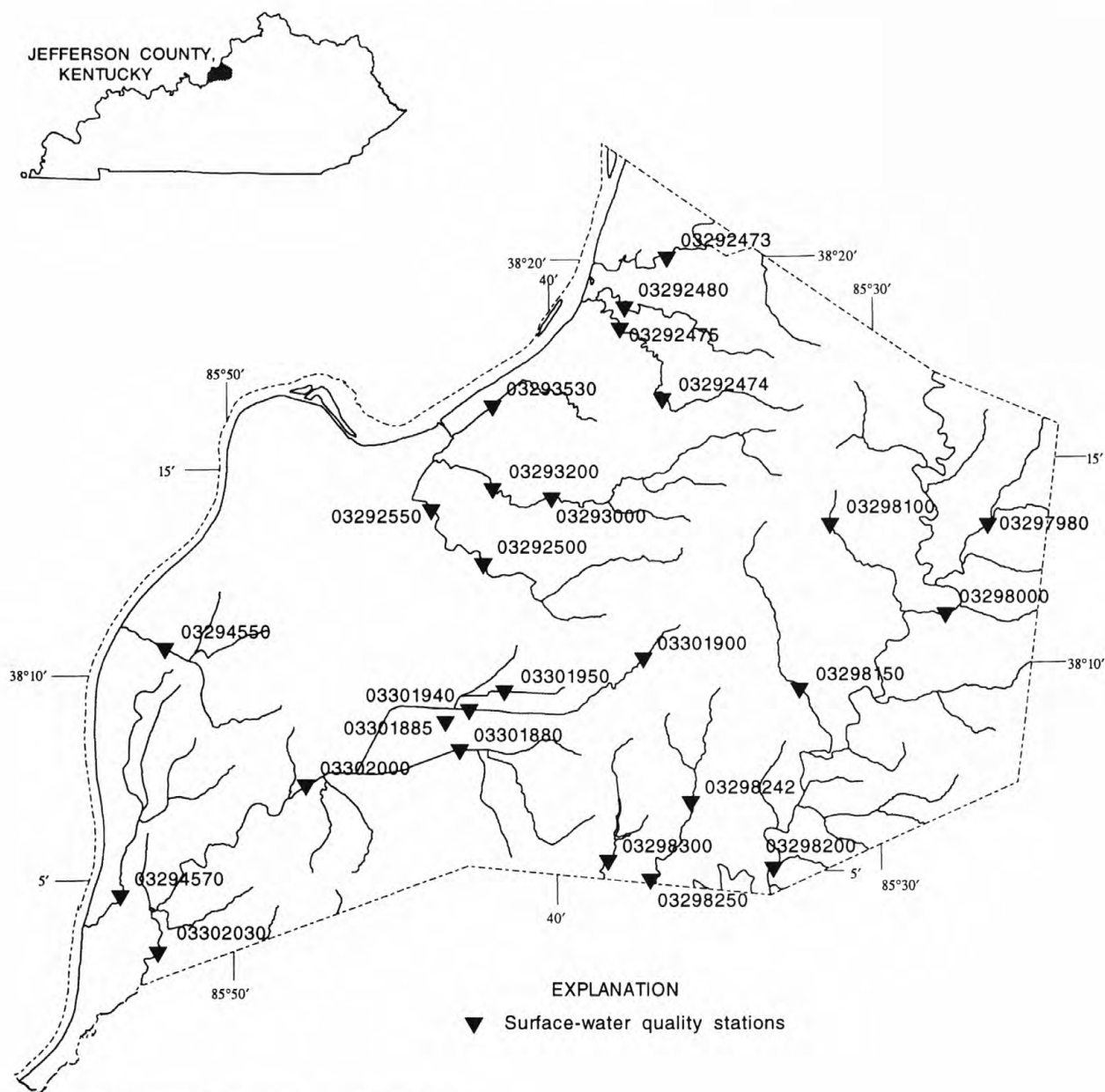


Figure 5. Location of surface-water quality stations in Kentucky.

WATER RESOURCES DATA - KENTUCKY, 1996



Base from U.S. Geological Survey digital data, 1:100,000, 1983
Universal Transverse Mercator projection, Zone 16

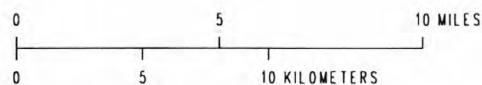


Figure 6. Location of surface-water quality stations in Jefferson County for the Metropolitan Sewer District Sampling Network.

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. Elevation of gage is 780 ft above sea level from topographic map.

REMARKS.--Estimated daily discharges: Feb. 4-7, and May 16 to June 3. Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.1	2.6	2.2	6.8	10	18	9.5	11	1.2	4.9	1.7
2	1.5	6.1	2.6	12	6.4	8.3	18	8.8	8.3	1.7	2.2	2.0
3	1.4	9.1	2.4	22	3.5	6.1	18	8.0	7.2	2.6	1.6	4.3
4	1.9	4.6	2.3	13	3.2	5.0	16	7.5	6.8	1.7	1.5	2.9
5	6.4	3.0	2.1	9.0	3.5	5.5	14	11	6.1	1.4	1.5	2.6
6	3.7	2.6	2.1	6.4	3.5	13	13	19	5.2	1.4	1.2	2.6
7	3.0	40	2.1	6.0	4.0	37	11	20	4.8	1.7	.94	2.3
8	2.8	12	2.1	4.4	37	28	9.4	47	5.1	2.9	4.1	2.1
9	2.6	4.8	2.6	4.0	101	17	7.7	39	6.1	2.3	3.0	2.0
10	2.3	3.0	5.3	3.9	29	14	5.8	20	4.7	1.9	1.5	2.1
11	2.1	11	6.4	3.9	18	11	5.9	16	3.4	1.4	1.5	2.3
12	2.1	12	2.7	3.9	13	9.6	5.5	14	3.5	1.4	15	2.5
13	2.1	6.2	2.6	3.9	11	9.1	5.0	11	3.6	1.8	5.5	3.3
14	7.6	5.2	2.5	5.6	9.8	9.1	4.7	10	3.0	1.9	2.6	2.1
15	5.3	5.5	2.1	18	9.1	11	5.4	11	2.3	2.7	1.9	1.8
16	3.0	4.9	2.6	35	9.1	14	8.6	82	2.3	2.0	6.6	4.8
17	2.3	3.6	2.6	56	9.1	23	7.7	25	2.1	2.3	3.8	2.8
18	2.1	3.0	2.9	31	8.2	21	7.2	16	3.0	2.3	2.3	2.6
19	2.1	2.8	23	75	7.1	24	6.7	12	4.1	16	1.8	2.3
20	2.8	2.6	20	24	6.8	26	8.0	10	2.6	5.3	1.4	2.2
21	2.9	2.2	12	15	6.4	21	8.5	8.8	2.0	2.4	1.4	2.1
22	2.4	2.0	7.1	11	6.1	19	6.7	9.8	2.0	2.3	1.3	2.0
23	2.1	1.8	5.4	9.2	5.4	18	6.1	7.6	2.5	1.8	1.2	1.9
24	1.9	2.1	4.0	27	3.4	18	5.5	10	2.3	1.5	2.4	1.9
25	1.9	1.9	3.6	25	4.1	18	5.5	39	2.5	1.5	2.1	1.7
26	1.9	1.9	3.5	18	3.9	17	9.0	27	1.9	1.4	1.9	1.5
27	3.3	1.7	3.1	16	4.0	14	7.5	31	1.9	1.2	1.8	1.5
28	3.9	1.6	2.8	12	13	34	7.7	75	1.4	1.0	1.9	11
29	4.0	2.8	2.1	10	12	36	8.3	40	1.5	1.1	1.9	5.8
30	2.7	2.6	2.3	8.3	---	25	10	24	1.5	1.3	1.7	2.5
31	2.2	---	2.0	7.7	---	20	---	15	---	15	1.7	---
TOTAL	88.0	164.7	141.5	498.4	357.4	541.7	270.4	684.0	114.7	86.4	84.14	83.2
MEAN	2.84	5.49	4.56	16.1	12.3	17.5	9.01	22.1	3.82	2.79	2.71	2.77
MAX	7.6	40	23	75	101	37	18	82	11	16	15	11
MIN	1.4	1.6	2.0	2.2	3.2	5.0	4.7	7.5	1.4	1.0	.94	1.5
CFSM	.46	.89	.74	2.59	1.99	2.82	1.45	3.56	.62	.45	.44	.45
IN.	.53	.99	.85	2.99	2.14	3.25	1.62	4.10	.69	.52	.50	.50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1996, BY WATER YEAR (WY)

MEAN	4.12	7.11	8.77	15.8	13.9	18.3	12.7	11.4	7.52	2.46	2.61	2.14
MAX	28.0	31.0	18.8	42.6	34.0	53.6	22.3	47.7	23.2	10.4	10.6	5.75
(WY)	1990	1974	1979	1974	1990	1975	1977	1989	1974	1979	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

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1974 - 1996	
ANNUAL TOTAL	2558.36		3114.54			
ANNUAL MEAN	7.01		8.51		8.53	
HIGHEST ANNUAL MEAN					17.2	
LOWEST ANNUAL MEAN					5.30	
HIGHEST DAILY MEAN	145	May 14	101	Feb 9	832	Oct 1 1982
LOWEST DAILY MEAN	.63	Aug 19	.94	Aug 7	.01	Aug 19 1982
ANNUAL SEVEN-DAY MINIMUM	1.0	Aug 17	1.3	Jul 24	.04	Sep 22 1981
INSTANTANEOUS PEAK FLOW			243	Jul 19	1650	Jun 1 1974
INSTANTANEOUS PEAK STAGE			1.72	Jul 19	9.10	Apr 7 1977
ANNUAL RUNOFF (CFSM)	1.13		1.37		1.38	
ANNUAL RUNOFF (INCHES)	15.35		18.69		18.68	
10 PERCENT EXCEEDS	14		20		18	
50 PERCENT EXCEEDS	3.2		4.1		3.0	
90 PERCENT EXCEEDS	1.3		1.7		.35	

BIG SANDY RIVER BASIN

03208500 RUSSELL FORK AT HAYSI, VA

LOCATION.--Lat 37°12'25", long 82°17'45", Dickenson County, Hydrologic Unit 05070202, on right bank 180 ft downstream from bridge on State Highway 63, at Haysi, and 700 ft downstream from McClure River.

DRAINAGE AREA.--286 mi².

PERIOD OF RECORD.--July 1926 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 1003: 1926-43. WSP 1385: 1928(M), 1929, 1933(M), 1935(M), 1937-38(M).

GAGE.--Water-stage recorder. Datum of gage is 1,237.61 ft above sea level. Prior to Dec. 21, 1939, nonrecording gage at highway bridge 180 ft upstream at same datum.

REMARKS.--Records good except those for periods with ice effect, Dec. 9-13, 30, Jan. 7-13, and Feb. 4-6, which are poor. U.S. Army Corps of Engineers satellite precipitation and gage-height telemeter at station. Maximum discharge, 59,000 ft³/s, from rating curve extended above 32,000 ft³/s on basis of slope-area measurement of peak flow. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	26	126	111	446	760	947	1040	423	60	355	40
2	17	67	109	289	395	609	1300	895	330	286	192	38
3	17	166	91	1260	365	484	1050	773	290	983	121	53
4	20	92	87	690	e330	379	812	634	272	358	94	73
5	70	62	77	442	e300	353	664	537	235	175	79	58
6	107	48	70	348	e280	2310	548	847	183	115	77	58
7	54	603	75	e280	354	3800	491	848	174	94	67	54
8	35	567	70	e230	881	2520	442	1240	250	93	60	48
9	27	241	e64	e190	4940	1210	445	1270	191	120	66	48
10	23	138	e62	e170	2380	823	387	887	229	93	59	90
11	20	146	e60	e170	1610	668	359	689	166	71	51	63
12	18	382	e68	e180	1110	582	345	564	207	64	632	60
13	18	230	e84	e190	756	512	334	448	414	62	662	251
14	26	188	102	201	651	456	335	380	288	79	331	108
15	72	205	175	445	641	486	314	586	191	146	185	68
16	54	172	228	951	625	585	671	2700	148	167	125	70
17	36	134	229	1720	568	1540	708	1110	125	104	175	93
18	28	114	260	1790	513	1240	587	676	130	80	146	79
19	25	96	813	4930	444	1140	530	493	121	89	118	64
20	24	84	1420	1770	450	1250	521	390	124	260	89	55
21	23	77	660	912	488	992	587	325	126	138	75	49
22	23	68	396	613	491	777	558	300	100	100	67	46
23	23	62	274	490	483	661	526	227	88	81	60	41
24	21	67	204	1050	445	594	463	185	89	70	57	39
25	19	61	164	1260	382	566	412	1230	184	71	65	41
26	18	54	140	886	359	505	498	698	112	137	58	40
27	23	53	126	4430	346	434	513	527	87	102	53	37
28	42	54	112	1680	818	969	480	792	76	80	51	180
29	49	92	94	977	997	1490	461	1360	69	81	49	624
30	35	133	e84	699	---	1050	776	880	64	71	44	198
31	29	---	96	565	---	830	---	568	---	94	41	---
TOTAL	1014	4482	6620	29919	22848	30575	17064	24099	5486	4524	4304	2766
MEAN	32.7	149	214	965	788	986	569	777	183	146	139	92.2
MAX	107	603	1420	4930	4940	3800	1300	2700	423	983	662	624
MIN	17	26	60	111	280	353	314	185	64	60	41	37
CFSM	.11	.52	.75	3.37	2.75	3.45	1.99	2.72	.64	.51	.49	.32
IN.	.13	.58	.86	3.89	2.97	3.98	2.22	3.13	.71	.59	.56	.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 1996, BY WATER YEAR (WY)

	MEAN	86.2	164	331	519	651	769	576	421	179	146	121	64.6
	MAX	838	961	1326	2083	1797	2331	1994	1429	715	566	561	608
	(WY)	1990	1978	1927	1937	1939	1955	1977	1958	1989	1938	1966	1989
	MIN	.98	2.46	11.1	19.6	57.7	168	64.0	63.4	21.6	3.03	8.81	2.07
	(WY)	1954	1954	1954	1940	1941	1988	1942	1941	1966	1930	1953	1943

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1926 - 1996	
ANNUAL TOTAL	115335		153701			
ANNUAL MEAN	316		420		334	
HIGHEST ANNUAL MEAN					568	
LOWEST ANNUAL MEAN					100	
HIGHEST DAILY MEAN	5000	May 19	4940	Feb 9	30600	Apr 4 1977
LOWEST DAILY MEAN	11	Sep 10	17	Oct 2	.20	Jun 27 1936
ANNUAL SEVEN-DAY MINIMUM	12	Sep 6	21	Oct 21	.56	Jun 24 1936
INSTANTANEOUS PEAK FLOW			8320	Jan 19	59000	Apr 4 1977
INSTANTANEOUS PEAK STAGE			9.14	Jan 19	28.24	Apr 4 1977
INSTANTANEOUS LOW FLOW			16	Oct 2	.20	Jun 27 1936
ANNUAL RUNOFF (CFSM)	1.10		1.47		1.17	
ANNUAL RUNOFF (INCHES)	15.00		19.99		15.89	
10 PERCENT EXCEEDS	687		979		736	
50 PERCENT EXCEEDS	139		191		130	
90 PERCENT EXCEEDS	20		47		15	

e ESTIMATED

BIG SANDY RIVER BASIN

03209500 LEVISA FORK AT PIKEVILLE, KY

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

DRAINAGE AREA.--1,232 mi².

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

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

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

REMARKS.--No estimated daily discharges. Records good. Flow regulated since October 1968 by Fishtrap Lake (station 03207995), since August 1966 by North Fork Pound River Lake (station 03208680) and since March 1965 by John W. Flannagan Lake (station 03208990).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	297	335	636	475	1960	2670	1870	2450	2000	269	1210	202
2	293	409	433	894	1540	2190	2420	2280	1510	330	971	197
3	289	708	405	3680	1250	1960	2240	2330	1180	1380	408	318
4	292	719	477	4150	748	1590	1820	2320	1180	1600	346	450
5	350	627	429	2280	1070	1220	1560	1790	1170	647	342	347
6	428	572	367	1390	1310	3940	1440	3660	1110	404	456	674
7	484	1740	383	1190	1320	9990	1770	4720	752	328	400	468
8	628	3740	366	1140	2580	9190	1690	4670	690	347	340	249
9	601	2820	362	1030	12100	6110	1620	6430	989	577	681	229
10	374	1230	426	1290	10000	4720	1440	4800	956	528	353	225
11	323	1160	450	1180	8040	3620	1350	3180	983	442	310	256
12	315	1550	538	1050	6340	2730	1230	2900	738	332	1240	241
13	270	1620	537	941	4430	2110	1220	2050	928	360	2680	316
14	300	1580	506	950	3010	1930	1290	1640	1350	330	1180	400
15	559	1440	494	1610	2910	2020	1140	2290	712	384	763	292
16	578	1420	651	3970	2640	2360	1310	9480	634	818	582	302
17	490	964	712	6950	2330	4690	2250	8300	574	877	650	315
18	472	900	902	7690	2230	5200	2060	6510	474	535	560	325
19	448	866	2260	11600	2090	5250	1620	4200	444	348	353	372
20	270	830	5840	4590	1980	5460	1820	2930	450	1220	328	325
21	277	817	4240	2260	1860	4700	1990	1830	536	1590	294	244
22	477	877	2120	1510	1770	3600	1840	1550	534	819	269	241
23	507	778	1210	2880	1630	3020	1730	1510	441	378	250	229
24	382	787	1070	9650	1360	2730	1720	1200	424	342	240	309
25	324	773	860	8240	1270	2740	1620	4920	487	325	253	446
26	336	756	783	5950	1380	2510	1330	4080	526	333	302	381
27	342	797	620	6310	1520	2180	1490	2700	490	386	324	363
28	369	809	509	5730	1720	2690	1410	3350	395	354	236	888
29	544	668	423	5710	2950	4880	1580	5530	307	312	214	1400
30	550	723	431	5020	---	2540	1840	5210	279	254	215	1320
31	339	---	426	2490	---	1980	---	2720	---	628	207	---
TOTAL	12508	33015	29866	113800	85338	112520	49710	113530	23243	17777	16957	12324
MEAN	403	1100	963	3671	2943	3630	1657	3662	775	573	547	411
MAX	628	3740	5840	11600	12100	9990	2420	9480	2000	1600	2680	1400
MIN	270	335	362	475	748	1220	1140	1200	279	254	207	197

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1996, BY WATER YEAR (WY)

MEAN	823	1149	1615	2405	2880	2968	2281	2055	972	563	476	480
MAX	3939	3991	5385	6861	6371	8081	7646	6067	3492	1855	1022	1606
(WY)	1990	1978	1973	1974	1994	1975	1977	1984	1979	1979	1971	1989
MIN	158	353	300	278	814	529	388	349	210	200	203	168
(WY)	1970	1970	1981	1981	1992	1988	1986	1976	1988	1988	1969	1969

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1969 - 1996

ANNUAL TOTAL	486165	620588	
ANNUAL MEAN	1332	1696	1549
HIGHEST ANNUAL MEAN			2459
LOWEST ANNUAL MEAN			522
HIGHEST DAILY MEAN	12700	May 15	69300
LOWEST DAILY MEAN	147	Sep 7	66
ANNUAL SEVEN-DAY MINIMUM	157	Aug 25	103
INSTANTANEOUS PEAK FLOW			85500
INSTANTANEOUS PEAK STAGE		24.71	52.72
INSTANTANEOUS LOW FLOW			66
10 PERCENT EXCEEDS	3370	4480	3610
50 PERCENT EXCEEDS	636	967	765
90 PERCENT EXCEEDS	213	311	232

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 left bank 10 ft downstream from bridge on U.S. Highway 119, 1,100 ft downstream from Ford Branch, 0.7 mi upstream from Raccoon Creek, 1.2 mi southwest of Meta, and at mile 42.7.

DRAINAGE AREA.--56.3 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 sea level. See WDR KY-90-1 for history of changes prior to Dec. 21, 1965.

REMARKS.--Estimated daily discharges: Feb. 4-7, and Apr. 25-30. Record fair except for periods of estimated record, which are poor.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	8.9	18	28	58	108	161	103	45	20	62	11
2	8.8	19	19	103	49	94	172	89	44	20	29	9.7
3	7.8	36	20	266	48	81	156	73	45	21	20	25
4	9.0	19	23	136	58	68	140	67	59	20	16	21
5	25	12	19	93	43	63	137	283	39	20	15	11
6	14	11	18	74	40	148	119	766	32	19	13	8.7
7	8.7	258	19	62	41	450	113	254	29	18	15	9.3
8	8.5	118	18	57	311	312	105	564	29	22	15	8.2
9	8.2	48	28	72	939	208	101	468	37	25	76	7.9
10	7.0	30	36	59	300	161	81	226	44	15	26	9.0
11	6.9	55	66	66	188	144	79	148	30	13	21	8.3
12	7.1	87	26	60	139	117	73	111	55	14	115	6.9
13	6.2	52	23	60	114	96	74	82	39	15	77	32
14	30	49	22	75	101	86	84	64	29	21	38	11
15	32	52	19	177	109	106	82	606	25	53	26	8.8
16	13	45	30	342	99	166	132	1690	24	26	24	43
17	9.8	37	34	725	84	329	122	318	23	13	22	28
18	7.1	32	40	426	81	211	112	177	21	12	19	16
19	6.7	28	152	1070	73	241	103	115	22	71	16	9.6
20	7.4	24	179	341	79	265	111	82	23	63	13	7.7
21	13	21	109	197	63	199	108	68	19	23	15	6.1
22	9.9	17	75	130	68	161	91	52	19	16	13	6.4
23	9.1	17	60	105	63	154	77	44	21	14	12	5.7
24	8.7	20	47	326	61	161	73	40	22	12	16	4.7
25	7.0	17	45	283	53	157	65	106	39	12	16	5.5
26	6.2	15	38	188	58	140	95	101	22	13	11	4.8
27	8.8	15	29	150	60	119	73	106	19	10	12	4.2
28	18	15	23	112	118	180	78	180	20	10	11	199
29	17	21	21	101	119	242	80	122	20	16	9.6	107
30	14	19	19	87	---	189	100	79	20	11	9.2	37
31	10	---	21	77	---	156	---	55	---	97	9.8	---
TOTAL	353.4	1197.9	1296	6048	3617	5312	3097	7239	915	735	792.6	672.5
MEAN	11.4	39.9	41.8	195	125	171	103	234	30.5	23.7	25.6	22.4
MAX	32	258	179	1070	939	450	172	1690	59	97	115	199
MIN	6.2	8.9	18	28	40	63	65	40	19	10	9.2	4.2
CFSM	.20	.71	.74	3.47	2.22	3.04	1.83	4.15	.54	.42	.45	.40
IN.	.23	.79	.86	4.00	2.39	3.51	2.05	4.78	.60	.49	.52	.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1996, BY WATER YEAR (WY)

MEAN	17.4	38.0	76.0	110	140	165	117	73.6	37.1	24.9	17.0	16.1
MAX	175	213	319	413	338	489	356	270	193	136	155	153
(WY)	1990	1974	1973	1974	1972	1955	1948	1984	1979	1956	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

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1941 - 1996

ANNUAL TOTAL	22678.7	31275.4	
ANNUAL MEAN	62.1	85.5	69.2
HIGHEST ANNUAL MEAN			135
LOWEST ANNUAL MEAN			24.5
HIGHEST DAILY MEAN	1510 May 19	1690 May 16	3340 May 7 1984
LOWEST DAILY MEAN	3.4 Aug 30	4.2 Sep 27	.00 Oct 1 1941
ANNUAL SEVEN-DAY MINIMUM	4.3 Aug 25	5.3 Sep 21	.00 Oct 1 1941
INSTANTANEOUS PEAK FLOW		3320 May 16	7380 Mar 12 1963
INSTANTANEOUS PEAK STAGE		16.27 May 16	19.62 May 7 1984
INSTANTANEOUS LOW FLOW			.00 Oct 1 1941
ANNUAL RUNOFF (CFSM)	1.10	1.52	1.23
ANNUAL RUNOFF (INCHES)	14.98	20.67	16.70
10 PERCENT EXCEEDS	130	180	157
50 PERCENT EXCEEDS	26	40	23
90 PERCENT EXCEEDS	7.2	9.3	1.9

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 sea level. See WDR KY-90-1 for history of changes prior to Oct. 19, 1954.

REMARKS.--Estimated daily discharges: Jan. 12-14, 20, 21. Records good except for periods of estimated record, which are fair. 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).

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 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	414	468	1040	738	3240	4180	3680	3130	3560	550	1520	374
2	391	578	910	1030	2710	3340	4370	3280	2890	530	1720	365
3	383	883	734	4110	2280	3150	4590	3190	2400	546	1170	411
4	453	1190	717	6250	1790	2460	4220	3260	2060	1610	671	573
5	597	1130	746	4640	1820	2160	3640	3000	1970	1640	569	675
6	632	974	718	2850	2310	2310	3040	6200	1820	884	525	579
7	615	1170	720	2170	2180	10000	2830	9610	1630	632	616	842
8	636	3870	677	1900	3040	16300	2950	10900	1450	558	625	662
9	713	4080	672	1860	12100	11800	2790	14500	4070	617	931	447
10	676	2830	656	1950	18100	7530	2540	11100	3520	735	1020	405
11	492	1770	678	1970	14300	5880	2370	6600	3180	688	659	391
12	431	1980	700	1850	9510	4470	2140	4460	2910	631	1010	421
13	407	2120	783	1700	6820	3630	1910	3860	3440	541	2800	540
14	403	2150	821	1600	4750	3140	2130	2950	2740	534	2600	557
15	452	1950	821	2540	3980	3040	2390	4140	2180	644	1480	585
16	686	1900	837	4810	3730	3500	2910	15500	1410	751	1070	823
17	694	1720	1020	9680	3380	5600	3440	14800	1210	1010	922	1160
18	587	1330	1150	13800	3120	7820	3980	12600	1070	1050	999	836
19	562	1240	2330	17100	2930	7610	3130	8710	901	842	823	631
20	552	1180	5310	18000	2840	8010	3020	5590	847	995	559	623
21	407	1110	6970	7200	2850	7870	3290	3410	825	1510	539	558
22	377	1090	4190	3470	2650	6270	3410	2500	851	1750	533	463
23	550	1120	2360	3270	2580	5070	3130	2280	919	1110	459	436
24	573	1050	1710	11700	2320	4510	3070	2200	796	659	432	422
25	479	1030	1500	14900	2080	4630	2840	6500	843	551	428	439
26	423	998	1280	11500	1990	4310	2430	7560	877	542	448	608
27	444	975	1270	7790	2250	3680	2260	6900	817	533	482	557
28	494	1040	998	8500	2680	3610	2310	7780	787	553	523	739
29	532	1120	829	7050	3630	6690	2320	9110	692	552	450	2720
30	685	1010	721	6780	---	6150	2580	8950	604	529	393	2170
31	655	---	725	4890	---	4110	---	5580	---	756	379	---
TOTAL	16395	45056	44593	187598	127960	172830	89710	210150	53269	25033	27355	21012
MEAN	529	1502	1438	6052	4412	5575	2990	6779	1776	808	882	700
MAX	713	4080	6970	18000	18100	16300	4590	15500	4070	1750	2800	2720
MIN	377	468	656	738	1790	2160	1910	2200	604	529	379	365

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1996, BY WATER YEAR (WY)

	MEAN	1150	1855	2839	4079	5011	5197	4087	3476	1637	868	780	728
MAX	6560	4908	8870	12030	11000	13160	10040	9664	5338	2384	1837	2054	
(WY)	1990	1978	1973	1974	1994	1975	1987	1984	1989	1979	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	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1969 - 1996	
ANNUAL TOTAL	852315		1020961			
ANNUAL MEAN	2335		2790		2631	
HIGHEST ANNUAL MEAN					4234	
LOWEST ANNUAL MEAN					830	
HIGHEST DAILY MEAN	18200	May 15	18100	Feb 10	42000	Apr 6 1977
LOWEST DAILY MEAN	235	Sep 8	365	Sep 2	98	Oct 1 1968
ANNUAL SEVEN-DAY MINIMUM	251	Aug 25	414	Aug 28	122	Aug 27 1969
INSTANTANEOUS PEAK FLOW			18600	Jan 20	69700	Jan 31 1957
INSTANTANEOUS PEAK STAGE			22.35	Jan 20	45.92	Jan 31 1957
INSTANTANEOUS LOW FLOW					98	Oct 1 1968
10 PERCENT EXCEEDS	5480		6920		6360	
50 PERCENT EXCEEDS	1040		1700		1250	
90 PERCENT EXCEEDS	329		524		372	

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 sea level. 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.--Estimated daily discharges: Feb. 3-6. Records good except for period of estimated record, which is fair. Flow regulated since March 1968 by Grayson Lake (station 03216300).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of February 1937 reached a stage of 25.0 ft, present datum, from floodmarks at site 1.6 mi downstream, discharge, 16,600 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	52	246	105	506	432	1380	578	632	86	730	43
2	32	51	93	219	391	346	1990	516	411	81	210	42
3	34	51	80	1400	380	317	982	526	760	77	137	43
4	40	49	74	1140	360	327	977	2650	1060	69	110	42
5	204	48	39	529	380	368	1200	2710	643	66	93	42
6	143	46	34	320	400	470	883	4660	631	62	85	41
7	92	50	36	265	298	1900	700	3150	387	59	78	41
8	65	82	34	336	554	1930	501	2490	244	58	73	40
9	51	219	33	426	2000	1330	478	3310	1440	61	70	39
10	44	218	30	426	1390	1170	462	2990	1560	59	67	39
11	43	229	29	230	1150	989	402	2750	894	57	65	39
12	40	254	28	275	1030	656	354	2650	1370	53	63	38
13	39	352	28	284	898	552	309	2570	1700	51	69	39
14	48	575	29	306	608	568	453	2480	1090	49	74	40
15	61	614	32	580	493	1030	608	3020	516	510	69	40
16	64	524	54	796	416	2140	1550	5000	620	840	62	64
17	56	262	99	2330	267	2090	1780	2410	366	583	58	324
18	51	211	248	3430	254	1810	1120	1450	157	417	57	198
19	47	203	1750	3820	239	1800	713	857	128	260	55	209
20	46	200	2100	1900	439	2260	728	2640	114	2770	53	76
21	45	229	1390	631	897	2110	956	2470	153	2350	51	55
22	45	237	521	452	768	1630	779	2300	148	775	85	49
23	43	271	309	642	963	1170	949	1820	1490	383	66	44
24	41	317	252	3650	776	1090	1200	788	1810	292	55	42
25	40	336	224	2510	675	981	1070	395	1060	140	53	40
26	40	314	193	2840	638	745	799	409	421	125	52	38
27	44	345	130	2740	573	474	683	823	166	116	44	40
28	49	473	161	2590	509	625	610	2560	125	98	44	62
29	57	431	106	2320	481	1280	578	1570	110	89	43	137
30	57	267	93	1800	---	969	563	1490	97	83	40	116
31	55	---	98	963	---	608	---	1550	---	778	41	---
TOTAL	1748	7510	8573	40255	18733	34167	25757	65582	20303	11497	2852	2102
MEAN	56.4	250	277	1299	646	1102	859	2116	677	371	92.0	70.1
MAX	204	614	2100	3820	2000	2260	1990	5000	1810	2770	730	324
MIN	32	46	28	105	239	317	309	395	97	49	40	38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1996, BY WATER YEAR (WY)

MEAN	176	350	657	757	934	970	690	668	277	161	111	127
MAX	733	993	2630	1954	2886	2415	2291	2116	928	841	382	585
(WY)	1990	1987	1979	1974	1989	1994	1972	1996	1974	1971	1979	1979
MIN	30.1	28.4	53.6	45.2	249	133	113	62.1	39.1	37.5	34.7	33.3
(WY)	1981	1982	1982	1981	1969	1969	1986	1976	1988	1969	1988	1994

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1969 - 1996

ANNUAL TOTAL	164958	239079	
ANNUAL MEAN	452	653	488
HIGHEST ANNUAL MEAN			838
LOWEST ANNUAL MEAN			116
HIGHEST DAILY MEAN	5020	Jan 16	12900
LOWEST DAILY MEAN	28	Dec 12	5.8
ANNUAL SEVEN-DAY MINIMUM	29	Sep 6	18
INSTANTANEOUS PEAK FLOW			24500
INSTANTANEOUS PEAK STAGE			20.69
INSTANTANEOUS LOW FLOW			1.5
10 PERCENT EXCEEDS	1480	1950	1400
50 PERCENT EXCEEDS	143	317	175
90 PERCENT EXCEEDS	33	42	40

OHIO RIVER MAIN STEM

03216600 OHIO RIVER AT GREENUP DAM NEAR GREENUP, KY

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

DRAINAGE AREA.--62,000 mi², approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 472.43 ft above sea level or 472.97 ft Ohio River Datum. Record of Greenup Dam headwater, tailwater, gate openings and lockages used to determine discharge from Oct. 1, 1968 to Sept. 30, 1981. Auxiliary water-stage recorder is located at Portsmouth, Ohio, 14.1 mi downstream, established Oct. 1, 1981 and used in slope rating computation from Oct. 1, 1981 to Sept. 30, 1983. Datum of gage is 470.43 ft above sea level or 470.99 ft Ohio River Datum. Since Oct. 1, 1983, discharge has been computed using the Branch Flow Model. Stage record for this model is obtained from the Greenup Dam Tailwater and Portsmouth, Ohio gages.

REMARKS.--Estimated daily discharges: Jan. 21-23 and July 24. Records fair except those below 20,000 ft³/s, those computed using dam operations records, and for periods of estimated record, which are poor. Flow regulated by Ohio River system of locks, dams, and reservoirs.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18600	17200	73200	26900	294000	311000	214000	188000	160000	45400	156000	16100
2	13200	24400	74400	33200	315000	305000	190000	204000	123000	43200	160000	11200
3	12000	27400	66200	107000	300000	227000	182000	205000	92700	45400	127000	17700
4	15900	25000	63200	156000	264000	180000	156000	215000	88800	45100	74900	13200
5	20800	27200	61000	155000	215000	150000	138000	265000	75100	39200	73400	35400
6	25800	30400	52000	125000	174000	147000	126000	311000	86500	37800	69400	17400
7	33600	28500	54000	84500	147000	173000	118000	349000	67000	34400	60400	84500
8	35000	26600	50100	79700	123000	270000	103000	352000	76200	34200	45100	89700
9	39200	31700	52200	55300	160000	303000	82500	331000	121000	31400	63400	102000
10	31800	45600	43100	45600	228000	255000	86700	329000	139000	21600	51100	50500
11	22300	41600	35200	47600	258000	191000	77500	316000	119000	29300	43400	54400
12	18700	46800	27000	40600	206000	171000	72400	289000	133000	22000	53900	64600
13	18100	55400	26500	43800	180000	141000	70200	304000	120000	23800	72600	48800
14	13400	111000	22700	43800	159000	130000	61000	328000	113000	23800	116000	45100
15	48500	106000	28000	42900	142000	121000	64900	324000	106000	16400	121000	53100
16	31000	108000	38900	48000	137000	150000	104000	341000	92900	25500	85700	60800
17	27400	100000	55000	118000	101000	150000	150000	415000	72200	29200	74400	59200
18	25200	85300	75100	212000	80400	156000	164000	444000	52300	24600	57000	148000
19	19500	82300	148000	283000	79800	170000	156000	421000	73000	77900	42900	157000
20	16200	78200	205000	346000	83400	201000	145000	385000	126000	127000	35900	142000
21	15300	73800	206000	380000	145000	265000	141000	312000	138000	195000	25200	113000
22	21200	73500	172000	397000	186000	343000	124000	269000	123000	208000	17600	105000
23	18300	74900	157000	405000	180000	305000	106000	180000	114000	124000	28200	86500
24	21400	74300	128000	415000	176000	257000	117000	163000	109000	118000	29600	67600
25	23800	69200	88800	423000	173000	201000	121000	161000	92900	113000	26500	53700
26	16600	61200	65200	435000	165000	188000	130000	162000	112000	86200	28400	52600
27	20400	57000	49100	427000	161000	180000	132000	159000	92200	58000	24300	43000
28	23900	49500	40400	402000	204000	167000	120000	199000	79600	47900	24400	36200
29	14800	48300	37200	378000	266000	173000	113000	231000	59200	32100	22200	122000
30	19900	62000	37500	357000	---	192000	126000	228000	40500	37800	17300	149000
31	18300	---	31100	322000	---	203000	---	199000	---	135000	17500	---
TOTAL	700100	1742300	2263100	6434900	5302600	6376000	3691200	8579000	2997100	1932200	1844700	2099300
MEAN	22580	58080	73000	207600	182800	205700	123000	276700	99900	62330	59510	69980
MAX	48500	111000	206000	435000	315000	343000	214000	444000	160000	208000	160000	157000
MIN	12000	17200	22700	26900	79800	121000	61000	159000	40500	16400	17300	11200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1996, BY WATER YEAR (WY)

MEAN	40480	71390	114500	120600	146800	164400	144400	107200	66170	45480	37610	34620
MAX	111300	208600	252700	242700	259100	268600	258400	276700	174000	100700	113600	86310
(WY)	1980	1986	1973	1974	1994	1994	1994	1996	1981	1972	1980	1979
MIN	11310	21910	38500	27170	66240	53550	52660	36610	13440	13060	11270	12000
(WY)	1992	1992	1990	1977	1978	1969	1986	1976	1988	1988	1988	1985

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1969 - 1996	
ANNUAL TOTAL	25760500		43962500			
ANNUAL MEAN	70580		120100		90860	
HIGHEST ANNUAL MEAN					120100	
LOWEST ANNUAL MEAN					49760	
HIGHEST DAILY MEAN	364000	May 20	444000	May 18	540000	Jan 12 1974
LOWEST DAILY MEAN	10500	Sep 7	11200	Sep 2	4810	Jul 24 1993
ANNUAL SEVEN-DAY MINIMUM	11900	Sep 1	16500	Aug 29	9050	Jul 11 1988
INSTANTANEOUS PEAK STAGE			56.63 Jan 22		59.19 Feb 28 1979	
10 PERCENT EXCEEDS	164000		285000		206000	
50 PERCENT EXCEEDS	49800		86600		63500	
90 PERCENT EXCEEDS	14200		23800		17900	

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 sea level.

REMARKS.--Estimated daily discharges: Oct. 1-4, 6 to Feb. 7, Mar. 9, 10, 12, 13, and May 6, 7, 17-22. Records poor. Occasional regulation at low flow caused by withdrawal of water for cooling purposes by gas transmission plant above station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	74	86	340	280	365	2310	338	211	52	1750	6.6
2	45	70	76	660	300	327	2650	303	164	45	378	6.1
3	100	67	70	1000	320	291	1150	552	188	38	194	6.4
4	350	64	62	560	290	253	735	2480	189	33	133	6.2
5	156	58	58	370	270	244	665	3610	140	30	95	5.9
6	130	53	54	280	240	372	585	3020	108	23	76	5.7
7	100	76	50	320	220	1070	479	2240	116	19	64	5.8
8	80	130	46	370	1190	1120	391	2330	185	15	65	5.3
9	66	110	42	290	1520	618	323	2320	526	20	56	5.0
10	54	92	37	230	746	449	275	1190	405	43	45	4.8
11	48	250	35	250	545	385	252	678	233	27	38	4.6
12	42	230	42	220	409	340	232	508	261	16	40	4.2
13	37	190	60	350	348	300	216	370	275	11	38	5.5
14	130	160	92	700	327	280	207	280	175	9.0	39	7.3
15	240	140	140	1300	292	601	220	1540	138	130	48	8.1
16	160	120	250	3500	257	972	618	7610	112	486	39	9.7
17	110	100	500	3000	234	732	630	3000	90	142	32	35
18	90	86	1400	2400	219	621	422	1400	70	77	24	60
19	68	78	3100	5000	235	708	338	700	59	53	20	86
20	58	70	900	1500	1240	1720	323	460	51	647	16	57
21	68	62	600	800	945	1440	547	300	43	267	14	39
22	56	56	440	450	751	991	444	210	38	137	12	28
23	47	110	320	1500	730	845	620	168	917	100	10	20
24	41	300	250	7000	568	811	1030	141	1190	75	9.6	16
25	38	210	210	2300	419	723	649	146	333	58	10	13
26	35	170	170	840	453	560	495	171	242	49	11	11
27	76	140	150	1100	493	402	397	431	136	38	9.1	9.8
28	150	125	130	700	515	372	304	2020	102	32	7.7	12
29	110	110	110	560	475	1960	264	1180	79	27	7.4	23
30	88	94	100	420	---	1570	283	568	62	22	8.8	63
31	78	---	170	340	---	844	---	314	---	2400	8.1	---
TOTAL	2862	3595	9750	38650	14831	22286	18054	40578	6838	5121.0	3297.7	570.0
MEAN	92.3	120	315	1247	511	719	602	1309	228	165	106	19.0
MAX	350	300	3100	7000	1520	1960	2650	7610	1190	2400	1750	86
MIN	11	53	35	220	219	244	207	141	38	9.0	7.4	4.2
CFSM	.38	.50	1.30	5.15	2.11	2.97	2.49	5.41	.94	.68	.44	.08
IN.	.44	.55	1.50	5.94	2.28	3.43	2.78	6.24	1.05	.79	.51	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1996, BY WATER YEAR (WY)

MEAN	59.1	157	390	490	612	682	522	395	170	118	83.2	69.4
MAX	509	869	1954	1665	1953	1556	1513	1309	994	645	445	1031
(WY)	1976	1987	1979	1950	1989	1967	1972	1996	1961	1960	1979	1950
MIN	.35	.70	3.23	31.1	20.7	80.8	90.9	27.6	5.13	5.39	2.09	1.31
(WY)	1954	1954	1954	1977	1954	1941	1941	1941	1988	1964	1944	1953

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1940 - 1996	
ANNUAL TOTAL	123002.3		166432.7			
ANNUAL MEAN	337		455		311	
HIGHEST ANNUAL MEAN					589	1979
LOWEST ANNUAL MEAN					67.5	1954
HIGHEST DAILY MEAN	5610	May 19	7610	May 16	20900	Dec 9 1978
LOWEST DAILY MEAN	6.1	Sep 12	4.2	Sep 12	.00	Aug 24 1952
ANNUAL SEVEN-DAY MINIMUM	6.6	Sep 8	5.0	Sep 7	.00	Sep 17 1955
INSTANTANEOUS PEAK FLOW			8980	May 16	25400	Dec 9 1979
INSTANTANEOUS PEAK STAGE			19.17	May 16	22.75	Dec 9 1979
INSTANTANEOUS LOW FLOW					.00	Aug 24 1952
ANNUAL RUNOFF (CFSM)	1.39		1.88		1.29	
ANNUAL RUNOFF (INCHES)	18.91		25.58		17.46	
10 PERCENT EXCEEDS	916		1160		700	
50 PERCENT EXCEEDS	120		188		93	
90 PERCENT EXCEEDS	18		16		5.2	

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 sea level.

REMARKS.--Estimated daily discharges: Dec. 10-14, 26-31, Jan. 7-15, Feb. 1-7, May 15 to July 2, Aug. 28-30, and Sept. 8-11, 26-28. Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	85	85	111	275	343	2240	986	150	28	768	7.3
2	5.5	79	80	174	220	290	1950	827	110	20	354	4.0
3	5.8	84	74	1270	180	239	851	1130	130	14	229	2.5
4	56	100	68	653	155	188	535	4150	120	10	150	2.2
5	629	103	63	402	145	177	486	4000	98	8.5	98	1.4
6	1060	91	59	299	120	547	450	4390	82	7.0	66	1.2
7	261	87	56	275	105	980	381	1620	87	6.0	44	1.1
8	130	103	51	240	222	781	310	1860	140	5.1	30	1.0
9	85	117	45	200	840	577	261	2020	300	4.6	22	.99
10	61	106	40	180	583	453	219	1290	260	4.2	16	.98
11	47	108	34	160	417	323	188	952	190	3.9	11	.97
12	37	433	29	145	315	310	169	843	250	3.7	7.3	1.5
13	30	318	25	120	249	285	154	702	230	3.3	5.6	2.9
14	54	246	22	110	235	256	145	599	180	2.9	12	4.4
15	269	199	37	250	214	456	143	2700	150	292	13	4.5
16	181	155	53	583	180	912	534	3800	110	259	8.8	11
17	113	124	158	2410	157	567	501	1100	83	91	4.4	29
18	83	105	513	1770	148	417	590	550	66	47	1.9	57
19	65	92	3020	2780	136	534	707	350	54	49	1.4	57
20	55	80	1640	1090	404	1510	762	250	43	461	1.3	20
21	51	70	616	553	690	953	1130	180	35	170	1.3	8.6
22	51	63	381	379	481	671	901	140	29	96	2.1	2.4
23	51	61	276	405	483	612	1010	97	350	78	2.2	1.4
24	42	175	218	2910	409	867	1260	85	500	54	1.5	1.2
25	37	247	181	1430	302	774	999	90	300	34	1.4	1.1
26	31	188	145	695	292	528	866	110	200	21	1.3	1.0
27	34	154	110	1010	411	384	795	215	120	15	1.2	.92
28	114	130	85	879	588	359	685	750	75	9.5	1.1	.89
29	154	108	69	559	453	1830	642	500	54	5.9	1.0	1.1
30	117	92	55	405	---	1190	818	310	38	9.2	1.0	4.4
31	97	---	45	312	---	654	---	210	---	3180	3.0	---
TOTAL	4022.3	4103	8333	22759	9409	18967	20682	36806	4534	4992.8	1860.8	233.95
MEAN	130	137	269	734	324	612	689	1187	151	161	60.0	7.80
MAX	1060	433	3020	2910	840	1830	2240	4390	500	3180	768	57
MIN	5.5	61	22	110	105	177	143	85	29	2.9	1.0	.89
CFSM	.65	.68	1.34	3.65	1.61	3.04	3.43	5.91	.75	.80	.30	.04
IN.	.74	.76	1.54	4.21	1.74	3.51	3.83	6.81	.84	.92	.34	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1996, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996
MEAN	38.3	137	257	590	451
MAX	130	340	381	1025	816
(WY)	1996	1994	1992	1994	1994
MIN	2.32	20.8	194	295	293
(WY)	1993	1992	1995	1992	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1992 - 1996
ANNUAL TOTAL	94264.1	136702.85	
ANNUAL MEAN	258	374	288
HIGHEST ANNUAL MEAN			389
LOWEST ANNUAL MEAN			221
HIGHEST DAILY MEAN	5610 May 18	4390 May 6	6930 Jan 28 1994
LOWEST DAILY MEAN	1.1 Sep 28	.89 Sep 28	.26 Sep 3 1993
ANNUAL SEVEN-DAY MINIMUM	3.1 Jul 18	1.1 Sep 23	.48 Aug 30 1993
INSTANTANEOUS PEAK FLOW		9480 May 15	e10400 May 18 1995
INSTANTANEOUS PEAK STAGE		16.20 May 15	e17.00 May 18 1995
INSTANTANEOUS LOW FLOW		.89 Sep 28	.89 Sep 28 1996
ANNUAL RUNOFF (CFSM)	1.28	1.86	1.43
ANNUAL RUNOFF (INCHES)	17.45	25.30	19.44
10 PERCENT EXCEEDS	631	924	734
50 PERCENT EXCEEDS	100	145	97
90 PERCENT EXCEEDS	11	3.8	2.6

e Estimated

LICKING RIVER BASIN

03248500 LICKING RIVER NEAR SALYERSVILLE, KY

LOCATION.--Lat 37°45'03", long 83°05'04", Magoffin County, Hydrologic Unit 05100101, on left bank on downstream side of bridge on State Highway 30, 0.8 mi upstream from Gardner Branch, 1.2 mi west of Salyersville, 2.9 mi downstream from State Road Fork, and at mile 266.9.

DRAINAGE AREA.--140 mi².

PERIOD OF RECORD.--October 1938 to September 1992, October 1994 to current year. Monthly discharge only for October to December 1938, published in WSP 1305.

REVISED RECORDS.--WSP 923: 1939-40, drainage area. WSP 1505: 1955(M), 1956(P).

GAGE.--Water-stage recorder. Datum of gage is 823.80 ft above sea level. Prior to Feb. 27, 1939, nonrecording gage at same site and datum. Feb. 27, 1939 to Sept. 27, 1965, water-stage recorder on upstream side of bridge at same datum.

REMARKS.--Estimated daily discharges: Dec. 8-15, 26-31, Jan. 7-13, and Feb. 2-7. Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	22	38	49	184	206	394	193	247	31	130	9.9
2	5.4	21	47	129	160	190	640	167	187	30	46	9.8
3	5.4	25	51	609	140	167	457	150	208	33	31	12
4	32	27	46	301	130	139	350	143	160	31	24	18
5	88	26	41	186	120	130	322	165	127	27	22	19
6	96	24	36	143	110	257	260	591	103	24	18	14
7	42	102	31	110	100	626	231	250	90	23	17	12
8	25	218	29	92	409	691	202	656	152	28	17	11
9	18	95	28	80	1590	391	188	1250	2580	30	21	11
10	15	59	27	74	757	289	162	446	1190	22	28	10
11	13	53	26	69	413	265	143	286	385	20	18	9.9
12	11	78	25	65	298	239	132	225	555	19	58	9.7
13	10	74	24	62	242	215	123	169	632	20	95	11
14	17	56	23	122	216	187	170	138	334	22	44	27
15	28	47	34	310	201	171	215	335	228	62	29	17
16	25	41	49	425	178	231	757	1210	168	47	24	63
17	19	35	51	854	153	367	412	484	130	32	28	118
18	15	31	60	1020	143	314	303	291	108	24	22	52
19	13	28	333	1300	132	305	255	201	94	29	19	34
20	12	25	459	965	160	336	270	149	81	61	17	25
21	12	24	215	407	170	318	313	125	70	38	17	20
22	12	22	137	295	158	304	270	147	62	26	32	18
23	11	21	105	255	154	338	249	108	70	21	22	16
24	10	24	84	1040	142	322	223	156	62	20	17	14
25	10	24	71	925	128	300	194	687	83	18	15	14
26	9.9	22	60	432	123	260	226	546	53	19	14	13
27	16	21	51	531	120	213	220	872	45	18	13	14
28	34	20	44	406	218	312	185	1370	40	16	12	36
29	33	25	39	320	245	759	170	1480	36	15	11	84
30	29	31	35	267	---	518	203	1230	34	15	11	51
31	25	---	32	226	---	373	---	379	---	161	10	---
TOTAL	697.9	1321	2331	12069	7294	9733	8239	14599	8314	982	882	773.3
MEAN	22.5	44.0	75.2	389	252	314	275	471	277	31.7	28.5	25.8
MAX	96	218	459	1300	1590	759	757	1480	2580	161	130	118
MIN	5.4	20	23	49	100	130	123	108	34	15	10	9.7
CFSM	.16	.31	.54	2.78	1.80	2.24	1.96	3.36	1.98	.23	.20	.18
IN.	.19	.35	.62	3.21	1.94	2.59	2.19	3.88	2.21	.26	.23	.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1996, BY WATER YEAR (WY)

MEAN	32.7	92.3	209	269	369	382	312	198	93.2	62.3	41.8	29.4
MAX	343	443	803	824	1015	1162	940	648	454	261	305	276
(WY)	1990	1974	1979	1950	1972	1955	1972	1984	1974	1939	1947	1950
MIN	.084	.63	1.96	25.4	27.3	89.3	40.6	25.4	6.06	3.01	1.07	.23
(WY)	1954	1956	1956	1940	1954	1983	1986	1941	1966	1944	1957	1955

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1939 - 1996

ANNUAL TOTAL	60374.2	67235.2	
ANNUAL MEAN	165	184	173
HIGHEST ANNUAL MEAN			300
LOWEST ANNUAL MEAN			40.3
HIGHEST DAILY MEAN	2720	May 19	9010
LOWEST DAILY MEAN	2.6	Aug 30	.00
ANNUAL SEVEN-DAY MINIMUM	3.2	Aug 25	.00
INSTANTANEOUS PEAK FLOW			4100
INSTANTANEOUS PEAK STAGE			20.72
ANNUAL RUNOFF (CFSM)	1.18		1.31
ANNUAL RUNOFF (INCHES)	16.04		17.87
10 PERCENT EXCEEDS	363		417
50 PERCENT EXCEEDS	51		80
90 PERCENT EXCEEDS	8.0		15
			4.2

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.--Estimated daily discharges: Dec. 24-Jan. 1, Jan. 7-13, and Feb. 2-7. Records good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	32	25	42	212	468	2920	551	210	30	1220	2.5
2	1.3	21	21	186	160	323	3640	374	162	24	300	2.3
3	1.6	16	20	1030	130	247	1900	943	153	20	102	2.3
4	1.8	14	17	1030	110	188	656	2760	184	14	58	2.0
5	2.2	12	15	376	95	167	440	3960	219	11	37	1.8
6	3.4	14	14	233	84	386	341	4780	149	8.4	25	1.7
7	93	14	12	180	75	864	279	3320	1420	7.0	18	1.7
8	91	15	12	150	151	908	229	2510	2270	5.4	13	1.7
9	44	15	11	130	329	514	190	2840	2940	4.9	21	1.6
10	25	12	8.7	120	490	365	161	1800	1600	4.1	18	1.5
11	16	20	7.0	110	291	349	138	1690	1010	3.5	17	1.3
12	11	58	6.0	98	203	353	119	1310	1040	3.0	18	1.2
13	8.3	181	5.8	90	156	311	107	710	753	2.8	12	1.3
14	6.9	156	6.6	125	136	263	115	428	473	3.7	9.1	1.3
15	5.2	122	6.9	251	127	556	220	2280	309	62	7.1	1.3
16	4.4	101	30	464	112	694	359	5800	238	42	5.6	2.1
17	3.5	65	45	1760	93	525	397	4590	179	34	4.5	3.2
18	2.9	46	586	2540	84	346	242	1380	146	20	3.9	3.4
19	2.6	33	1950	2850	77	929	187	457	133	20	3.2	3.0
20	3.6	26	2360	2880	520	1790	605	305	97	16	2.8	2.9
21	9.8	22	1040	821	743	1700	455	227	75	176	2.5	6.5
22	7.9	17	310	347	518	1090	333	176	63	99	2.5	8.0
23	6.3	15	194	803	435	774	754	138	427	41	2.3	11
24	5.1	15	130	4700	382	575	662	113	495	28	2.5	11
25	4.8	125	90	4740	271	442	476	103	378	34	2.4	9.6
26	4.9	125	65	1850	313	341	325	92	183	20	2.4	8.1
27	5.4	68	54	895	444	264	236	625	110	12	2.2	7.0
28	11	48	46	1180	1210	232	184	1120	73	8.6	2.3	252
29	13	37	40	571	950	852	165	1050	55	6.4	2.5	543
30	50	31	36	367	---	910	713	494	40	4.9	2.5	236
31	52	---	32	282	---	664	---	308	---	529	2.6	---
TOTAL	499.3	1476	7196.0	31201	8901	18390	17548	47234	15584	1294.7	1921.9	1132.3
MEAN	16.1	49.2	232	1006	307	593	585	1524	519	41.8	62.0	37.7
MAX	93	181	2360	4740	1210	1790	3640	5800	2940	529	1220	543
MIN	1.3	12	5.8	42	75	167	107	92	40	2.8	2.2	1.2
CFSM	.07	.22	1.03	4.45	1.36	2.62	2.59	6.74	2.30	.18	.27	.17
IN.	.08	.24	1.18	5.14	1.47	3.03	2.89	7.77	2.57	.21	.32	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1996, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996
MEAN	11.9	149	353	740	440	698
MAX	31.4	454	727	1165	794	872
(WY)	1994	1994	1992	1994	1994	1993
MIN	1.31	14.1	182	369	284	416
(WY)	1995	1992	1993	1992	1995	1995

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1991 - 1996

	1995 CALENDAR YEAR	1996 WATER YEAR	WATER YEARS 1991 - 1996
ANNUAL TOTAL	98435.30	152378.2	
ANNUAL MEAN	270	416	325
HIGHEST ANNUAL MEAN			425
LOWEST ANNUAL MEAN			233
HIGHEST DAILY MEAN	5010	5800	5910
LOWEST DAILY MEAN	.77 Sep 15	1.2 Sep 12	.44 Oct 8 1994
ANNUAL SEVEN-DAY MINIMUM	.85 Sep 4	1.4 Sep 9	.48 Oct 7 1994
INSTANTANEOUS PEAK FLOW		6170	6500
INSTANTANEOUS PEAK STAGE		22.52	23.24
INSTANTANEOUS LOW FLOW		.24	
ANNUAL RUNOFF (CFSM)	1.19	1.84	1.44
ANNUAL RUNOFF (INCHES)	16.20	25.08	19.55
10 PERCENT EXCEEDS	691	1060	817
50 PERCENT EXCEEDS	58	108	78
90 PERCENT EXCEEDS	1.4	2.9	2.3

LICKING RIVER BASIN

03252300 HINKSTON CREEK NEAR CARLISLE, KY

LOCATION.--Lat 38°14'33", long 84°03'18", 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.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 764.88 ft above sea level.

REMARKS.--Estimated daily discharges: Dec. 25-31, Jan. 6-12, and Feb. 2-5. Records good except for periods of estimated record, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	26	56	74	154	144	814	182	182	11	108	5.0
2	1.2	29	49	355	125	129	862	122	141	9.5	50	5.2
3	1.6	100	43	1380	111	114	451	116	128	8.5	22	5.6
4	2.3	60	38	499	101	93	293	1240	113	8.0	12	5.1
5	181	44	35	260	94	84	225	1260	85	7.8	7.5	4.5
6	436	42	32	186	90	344	186	3440	66	6.9	7.0	4.2
7	136	48	28	142	87	1150	156	2550	96	6.2	5.8	4.3
8	54	83	25	116	113	739	134	729	198	5.8	9.2	5.3
9	27	97	22	111	301	370	118	940	206	5.6	10	5.9
10	16	82	19	111	217	270	102	446	191	5.5	5.8	7.5
11	10	120	15	106	164	241	90	289	188	5.3	6.1	7.0
12	7.8	205	14	111	137	219	80	227	266	5.1	5.6	7.5
13	6.2	177	14	111	117	188	72	163	332	5.0	48	6.3
14	5.9	134	15	121	110	161	71	129	180	4.9	44	5.4
15	5.9	111	30	371	105	487	84	1570	131	28	18	5.0
16	18	87	466	578	93	580	194	4090	99	135	26	7.1
17	17	70	258	1660	81	361	139	1870	76	52	138	103
18	9.5	57	659	925	74	295	101	384	62	24	49	114
19	6.3	48	1690	2540	71	660	87	242	56	20	21	54
20	5.8	40	1060	1290	399	951	251	172	54	32	10	26
21	5.9	34	372	355	384	753	370	132	46	19	6.9	14
22	5.9	29	225	237	308	692	187	107	34	17	6.1	10
23	8.0	185	168	340	375	689	219	85	47	30	5.8	7.4
24	8.3	467	137	3410	266	506	262	67	78	20	5.7	7.1
25	6.7	238	111	2400	184	362	175	62	99	10	5.6	7.8
26	5.8	149	87	495	155	258	146	163	57	7.5	5.4	6.4
27	13	116	73	915	137	191	125	1220	37	6.3	5.2	5.6
28	58	95	64	509	150	171	97	2680	26	6.0	4.6	531
29	89	80	55	312	179	354	89	1550	21	5.9	4.5	551
30	51	66	51	235	---	333	238	611	16	6.8	4.4	166
31	31	---	55	190	---	241	---	275	---	147	4.6	---
TOTAL	1230.90	3119	5966	20445	4882	12130	6418	27113	3311	661.6	661.8	1694.2
MEAN	39.7	104	192	660	168	391	214	875	110	21.3	21.3	56.5
MAX	436	467	1690	3410	399	1150	862	4090	332	147	138	551
MIN	.80	26	14	74	71	84	71	62	16	4.9	4.4	4.2
CFSM	.26	.68	1.25	4.28	1.09	2.54	1.39	5.68	.72	.14	.14	.37
IN.	.30	.75	1.44	4.94	1.18	2.93	1.55	6.55	.80	.16	.16	.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1996, BY WATER YEAR (WY)

MEAN	24.6	111	225	499	299	482	212	398	89.3	38.2	74.2	20.3
MAX	48.2	302	394	675	526	755	436	875	143	89.3	121	56.5
(WY)	1994	1994	1992	1994	1994	1994	1994	1996	1993	1992	1993	1996
MIN	2.29	16.5	70.6	166	168	272	97.6	41.3	38.3	17.2	21.3	5.31
(WY)	1993	1992	1993	1992	1996	1995	1992	1992	1992	1993	1996	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1992 - 1996	
ANNUAL TOTAL	78732.13		87632.50			
ANNUAL MEAN	216		239		206	
HIGHEST ANNUAL MEAN					284	
LOWEST ANNUAL MEAN					128	
HIGHEST DAILY MEAN	4420	May 19	4090	May 16	4420	May 19 1995
LOWEST DAILY MEAN	.56	Sep 30	.80	Oct 1	.56	Sep 30 1995
ANNUAL SEVEN-DAY MINIMUM	.88	Sep 26	4.8	Aug 27	.88	Sep 26 1995
INSTANTANEOUS PEAK FLOW			4450	May 16	4630	May 19 1995
INSTANTANEOUS PEAK STAGE			25.32	May 16	25.98	May 19 1995
ANNUAL RUNOFF (CFSM)	1.40		1.55		1.34	
ANNUAL RUNOFF (INCHES)	19.02		21.17		18.21	
10 PERCENT EXCEEDS	476		537		497	
50 PERCENT EXCEEDS	60		93		67	
90 PERCENT EXCEEDS	5.0		5.9		4.9	

LICKING RIVER BASIN

03253500 LICKING RIVER AT CATAWBA, KY

LOCATION.--Lat 38°42'31", long 84°18'38", Pendleton County, Hydrologic Unit 05100101, on right bank 1 mi southeast of Catawba, 1.5 mi upstream from Kincaid Creek, 2.3 mi north of Falmouth, and at mile 48.0.

DRAINAGE AREA.--3,300 mi.²

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

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

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

REMARKS.--Estimated daily discharges: Dec. 8-14, 25-28, Jan. 7-13 and Feb. 3-7. Records good except for periods of estimated record, which are fair. Flow regulated since December 1973 by Cave Run Lake (station 03249498).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	746	1670	867	6500	5160	27800	7130	6410	1240	3900	133
2	83	689	1460	1270	6080	4000	23300	5360	5430	1080	4700	132
3	95	612	1110	8730	5200	3240	18100	7070	5090	980	1940	129
4	100	604	921	11700	5000	2770	11800	15700	4860	778	972	126
5	181	586	793	8010	4800	2580	8040	18000	4730	554	701	115
6	2400	676	702	4580	4600	3580	7100	31500	4500	465	520	101
7	5350	644	597	3500	4800	5170	6640	32800	11500	419	402	96
8	3620	582	530	3200	4980	12700	5950	31300	10800	398	325	94
9	1610	1260	490	2700	5730	12000	5340	28800	10600	385	420	92
10	982	1570	460	2400	7460	7900	4470	19200	10800	402	534	92
11	714	1820	440	2100	7840	6460	3230	19100	9070	362	350	92
12	556	2970	420	1900	6500	6130	2330	12200	10700	313	506	89
13	460	3160	370	1800	5890	5790	1910	8310	10500	288	334	87
14	400	3530	350	1830	5450	5330	1830	6800	8460	263	270	84
15	358	3070	379	2630	5170	6520	1850	16500	6720	247	239	84
16	342	2480	759	3880	4520	8600	3430	47400	5420	444	212	99
17	497	2110	2840	14700	3490	9730	4810	41200	4710	2070	198	134
18	522	1870	8470	20700	2460	8390	4720	28100	4930	2630	207	179
19	466	1710	19600	27800	1910	11400	3120	13500	6250	2170	251	812
20	396	1590	21700	24800	6110	16700	5260	5440	4210	2130	218	1670
21	354	1490	14800	17600	6850	17000	5700	3800	3940	1370	213	1910
22	326	1420	7750	8100	6950	14300	5540	4120	3810	1100	198	1150
23	312	1380	4780	6370	6120	12400	10000	4640	16200	915	169	672
24	300	1930	3790	33100	5880	11100	9130	4380	8100	682	151	325
25	288	4080	3000	36000	5190	9790	7930	4210	9560	539	140	198
26	278	4000	2500	26600	4590	8340	6640	4530	5530	464	130	160
27	282	2970	2000	14100	4960	7150	5290	7300	4550	397	127	150
28	327	2310	1600	10200	9490	6090	4210	14400	4060	340	125	11100
29	589	2000	1410	9450	6650	8910	5200	22800	3170	296	109	7730
30	695	1810	1250	7630	---	9800	12200	18700	1960	259	104	5400
31	688	---	1030	6900	---	10200	---	10700	---	585	121	---
TOTAL	23658	55669	107971	325147	161170	259230	222870	494990	206570	24565	18786	33235
MEAN	763	1856	3483	10490	5558	8362	7429	15970	6886	792	606	1108
MAX	5350	4080	21700	36000	9490	17000	27800	47400	16200	2630	4700	11100
MIN	83	582	350	867	1910	2580	1830	3800	1960	247	104	84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1996, BY WATER YEAR (WY)

	MEAN	1486	2902	5997	6940	7663	8195	5937	5065	2859	1447	1261	1559
MAX	7178	6516	18500	15110	21140	15220	11920	16660	8212	6962	4630	12860	
(WY)	1976	1987	1979	1974	1989	1975	1975	1983	1974	1979	1974	1979	
MIN	264	298	1092	420	2321	1247	666	371	134	291	103	110	
(WY)	1988	1988	1981	1981	1977	1983	1986	1976	1988	1984	1986	1995	

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1974 - 1996

ANNUAL TOTAL	1474351	1933861	
ANNUAL MEAN	4039	5284	4261
HIGHEST ANNUAL MEAN			7730
LOWEST ANNUAL MEAN			2006
HIGHEST DAILY MEAN	49800	May 19	74800
LOWEST DAILY MEAN	71	Sep 15	83
ANNUAL SEVEN-DAY MINIMUM	76	Sep 5	89
INSTANTANEOUS PEAK FLOW			48800
INSTANTANEOUS PEAK STAGE			32.83
INSTANTANEOUS LOW FLOW			52.60
10 PERCENT EXCEEDS	10100	12500	10700
50 PERCENT EXCEEDS	1590	3030	1730
90 PERCENT EXCEEDS	157	198	254

OHIO RIVER MAIN STEM

03277200 OHIO RIVER AT MARKLAND DAM NEAR WARSAW, KY

LOCATION.--Lat 38°46'29", long 84°57'52", Gallatin County, Hydrologic Unit 05090203, at left end of Markland Dam, 0.4 mi upstream from Stephens Creek, 3.4 mi west of Warsaw, and at mile 531.5.

DRAINAGE AREA.--83,170 mi², approximately.

PERIOD OF RECORD.--May 1970 to current year.

REVISED RECORDS.--WDR KY-88-1: 1987.

GAGE.--Gate opening and water-stage recorders on left bank. Turbine recorders in powerplant on right bank. 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.

REMARKS.--Estimated daily discharges: Nov. 1-30, Jan. 17 to Feb. 29, May 1-21, and Jul. 1 to Sept. 30. Records fair except for periods below 20,000 ft³/s and for periods of estimated record, 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 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11600	21300	91000	42600	431000	327000	288000	326000	280000	60500	122000	18700
2	10200	28700	97000	55500	389000	326000	305000	295000	223000	45600	161000	17700
3	13000	36000	94500	87100	333000	323000	280000	310000	175000	51700	163000	20700
4	25000	32100	81000	151000	317000	289000	251000	358000	139000	46200	143000	11100
5	45400	33000	79200	180000	219000	226000	212000	392000	129000	46800	85100	16300
6	63500	31600	68700	175000	155000	212000	181000	381000	123000	39300	63600	26000
7	67400	39000	72900	152000	119000	218000	167000	399000	154000	33300	55500	34600
8	69700	28800	69200	108000	108000	265000	147000	418000	178000	49900	47200	75900
9	69900	35500	68200	65500	110000	315000	129000	432000	215000	17100	43700	77400
10	50700	56200	65800	71800	153000	327000	115000	432000	226000	17100	58200	89100
11	25600	61500	53400	77600	212000	297000	111000	449000	216000	37400	48300	45300
12	21800	62300	34100	72700	266000	252000	97700	452000	201000	16400	38300	42500
13	25300	80200	28300	78600	278000	206000	88100	432000	205000	25800	53300	50200
14	12500	94800	30700	77100	245000	171000	85000	404000	191000	27700	66700	45000
15	37500	112000	31700	78900	207000	155000	82300	395000	173000	24100	91000	52100
16	32000	112000	51200	92400	173000	165000	94200	455000	167000	31200	108000	72300
17	39300	108000	76700	131000	141000	192000	128000	466000	139000	37900	91200	70900
18	34600	104000	132000	196000	114000	197000	163000	458000	112000	31200	55000	87600
19	20100	83900	194000	272000	90800	230000	178000	456000	115000	53100	34500	129000
20	16100	77200	242000	354000	85300	279000	190000	454000	121000	80100	41000	148000
21	13300	83300	266000	406000	114000	291000	190000	442000	158000	119000	22800	144000
22	29200	80700	259000	439000	152000	336000	173000	371000	164000	181000	17000	114000
23	21000	83500	215000	451000	197000	356000	177000	331000	178000	219000	37600	85800
24	21100	79700	146000	478000	214000	353000	207000	256000	153000	176000	25000	65500
25	32600	79000	102000	505000	220000	328000	194000	227000	123000	121000	33600	45600
26	16800	76800	84100	534000	216000	285000	194000	213000	122000	108000	36100	49800
27	29100	74500	72000	536000	213000	252000	193000	235000	130000	91600	24300	50900
28	26200	67500	55000	529000	237000	223000	188000	277000	112000	53800	30900	60400
29	14100	54500	53600	513000	263000	209000	309000	322000	94000	41100	22900	99400
30	28500	64200	50100	494000	---	222000	319000	325000	70500	35400	20600	128000
31	28200	---	45300	464000	---	232000	---	311000	---	49600	14800	---
TOTAL	951300	1981800	3009700	7867800	5972100	8059000	5436300	11474000	4786500	1967900	1855200	1973800
MEAN	30690	66060	97090	253800	205900	260000	181200	370100	159500	63480	59850	65790
MAX	69900	112000	266000	536000	431000	356000	319000	466000	280000	219000	163000	148000
MIN	10200	21300	28300	42600	85300	155000	82300	213000	70500	16400	14800	11100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1996, BY WATER YEAR (WY)

	MEAN	50000	87550	146200	151100	178700	211300	182700	141400	89090	59780	46720	42010
MAX	144100	230600	288700	289900	291200	335400	292200	370100	219100	109500	146200	143800	
(WY)	1980	1986	1973	1974	1975	1975	1972	1996	1981	1972	1980	1979	
MIN	13910	26500	42150	34060	77100	98440	61160	43510	16250	18530	13060	14980	
(WY)	1992	1992	1990	1977	1992	1990	1986	1976	1988	1988	1988	1995	

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1970 - 1996

	ANNUAL TOTAL	32655300	55335400	115600	
ANNUAL MEAN	89470		151200		
HIGHEST ANNUAL MEAN				157300	1979
LOWEST ANNUAL MEAN				60450	1988
HIGHEST DAILY MEAN	336000	May 22	536000	542000	Mar 17 1978
LOWEST DAILY MEAN	8100	Sep 7	10200	4320	Sep 23 1984
ANNUAL SEVEN-DAY MINIMUM	12300	Sep 4	17100	7310	Jul 1 1988
INSTANTANEOUS PEAK STAGE				55.25	Dec 13 1978
10 PERCENT EXCEEDS	194000		334000	261000	
50 PERCENT EXCEEDS	76700		109000	80100	
90 PERCENT EXCEEDS	16600		28000	21900	

KENTUCKY RIVER BASIN

03277400 LEATHERWOOD CREEK AT DAISY, KY

LOCATION.--Lat 37°06'48", long 83°05'33", Perry County, on right bank on downstream side of bridge, at mouth of Hicks Branch, at Daisy, 0.6 mi upstream from Little Leatherwood Creek, and 1.2 mi upstream from mouth.

DRAINAGE AREA.--40.9 mi², includes that of Hicks Branch.

PERIOD OF RECORD.--October 1964 to September 1974. October 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 938.64 ft above sea level.

REMARKS.--Estimated daily discharges: Feb. 3-7. Records good except for period of estimated record, which is poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	5.3	11	24	47	88	200	61	70	12	25	4.3
2	4.4	21	10	244	43	73	228	71	56	24	15	4.0
3	4.3	21	10	212	41	59	166	64	51	145	12	5.2
4	5.2	11	11	85	37	47	125	57	49	31	9.9	6.6
5	26	8.7	9.1	54	33	52	102	56	38	20	8.7	5.0
6	12	7.2	7.8	44	30	607	87	75	32	16	7.9	4.1
7	7.0	178	9.6	41	28	718	75	108	30	14	8.0	4.8
8	5.2	54	9.9	37	396	315	72	255	46	83	31	5.5
9	5.4	23	16	36	486	177	67	209	78	71	56	4.8
10	5.2	15	17	31	205	127	58	120	46	29	22	4.2
11	3.7	34	15	31	132	103	53	108	34	20	17	4.0
12	3.6	39	12	35	96	88	49	87	38	17	127	4.2
13	3.3	24	13	32	76	77	49	67	33	15	61	22
14	15	22	16	59	72	69	47	56	27	15	28	9.0
15	16	20	16	180	133	82	55	89	24	25	15	6.1
16	8.0	15	31	227	114	95	68	72	21	23	11	5.6
17	4.9	13	30	230	93	145	56	59	20	15	8.0	6.5
18	4.9	12	36	130	79	118	52	47	23	13	7.3	4.8
19	4.9	10	162	618	67	134	51	38	29	12	5.9	4.1
20	5.2	8.5	144	196	62	124	100	33	24	26	4.7	3.6
21	8.2	7.4	61	113	53	113	109	336	18	14	4.0	3.5
22	6.9	7.0	40	76	49	107	86	258	17	12	3.9	3.6
23	7.3	7.6	31	62	46	111	74	90	16	12	3.4	3.5
24	6.4	10	26	220	43	110	61	61	15	11	3.8	3.3
25	5.5	8.0	22	174	37	112	55	47	24	15	11	4.0
26	5.6	7.2	19	119	36	96	88	68	15	20	6.6	3.5
27	15	6.3	17	138	42	84	70	62	13	13	7.2	4.0
28	21	6.9	15	105	166	206	61	337	13	11	15	111
29	11	14	13	87	115	214	56	579	12	10	7.2	38
30	7.6	13	12	68	---	158	74	167	12	11	5.3	17
31	5.6	---	14	60	---	133	---	95	---	23	4.5	---
TOTAL	248.4	629.1	856.4	3768	2857	4742	2494	3832	924	778	552.3	309.8
MEAN	8.01	21.0	27.6	122	98.5	153	83.1	124	30.8	25.1	17.8	10.3
MAX	26	178	162	618	486	718	228	579	78	145	127	111
MIN	3.3	5.3	7.8	24	28	47	47	33	12	10	3.4	3.3
CFSM	.20	.51	.68	2.97	2.41	3.74	2.03	3.02	.75	.61	.44	.25
IN.	.23	.57	.78	3.43	2.60	4.31	2.27	3.49	.84	.71	.50	.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1996, BY WATER YEAR (WY)

MEAN	16.9	32.9	77.4	97.3	94.3	140	105	75.2	30.8	17.7	18.0	12.6
MAX	65.1	135	182	256	241	259	205	182	149	102	47.2	59.2
(WY)	1965	1974	1973	1974	1994	1973	1972	1971	1974	1973	1992	1974
MIN	3.29	3.23	1.75	4.06	22.2	32.0	42.9	12.4	4.06	1.19	2.50	1.59
(WY)	1966	1966	1966	1966	1968	1966	1995	1969	1966	1970	1970	1969

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1965 - 1996

ANNUAL TOTAL	16087.9	21991.0	
ANNUAL MEAN	44.1	60.1	59.6
HIGHEST ANNUAL MEAN			108
LOWEST ANNUAL MEAN			22.7
HIGHEST DAILY MEAN	1150	May 19	2310
LOWEST DAILY MEAN	1.8	Aug 31	.17
ANNUAL SEVEN-DAY MINIMUM	2.9	Aug 26	.49
INSTANTANEOUS PEAK FLOW			1820
INSTANTANEOUS PEAK STAGE			6.89
INSTANTANEOUS LOW FLOW			3.3
ANNUAL RUNOFF (CFSM)	1.08		1.47
ANNUAL RUNOFF (INCHES)	14.63		20.00
10 PERCENT EXCEEDS	84		135
50 PERCENT EXCEEDS	17		30
90 PERCENT EXCEEDS	4.3		5.2

KENTUCKY RIVER BASIN

03280000 NORTH FORK KENTUCKY RIVER AT JACKSON, KY

LOCATION.--Lat 37°32'46", long 83°22'21", Breathitt County, Hydrologic Unit 05100201, on left bank at city water plant on Armory Drive at Jackson, 2.8 mi downstream from Quicksand Creek, and at mile 305.0.

DRAINAGE AREA.--1,101 mi².

PERIOD OF RECORD.--June 1928 to September 1931, December 1936 to February 1937, April 1938 to current year. Gage-height records collected at same site during periods 1904-07, 1921-31, and February to December 1934 (above 8.0 ft only). January 1935 to September 1976 are published in reports of National Weather Service.

REVISED RECORDS.--WSP 853: 1929(M). WSP 1335: 1928(M), 1929, 1931(M). WSP 1435: 1954-55. WSP 1505: 1948. WSP 1555: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 697.67 ft above sea level. See WDR KY-90-1 for history of changes prior to Aug. 22, 1980.

REMARKS.--Estimated daily discharges: Feb. 3-8, Jun. 14-19. Records good except for periods of estimated record, which are poor. Small diversions by city of Jackson waterworks. Flow regulated by Carr Fork Lake (station 03277446) beginning January 1976.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	141	257	394	487	1420	2340	3320	1640	2790	299	1630	137
2	119	240	410	909	1210	1850	4540	1540	2260	284	785	130
3	109	475	386	4590	930	1660	4030	1630	1820	490	472	128
4	166	695	408	3670	740	1370	3260	1570	1500	655	346	154
5	411	534	488	2160	600	1160	2810	1370	1460	490	293	188
6	723	390	463	1590	500	2100	2330	1570	1080	352	261	215
7	459	1210	432	1290	440	8310	2010	2040	904	300	241	209
8	335	3590	418	1070	2000	9890	1780	3290	984	299	233	190
9	239	1850	413	1010	11100	4970	1680	7160	4510	285	408	175
10	192	1070	401	1010	8400	3280	1490	4130	4030	490	1230	199
11	162	835	501	942	4300	2670	1350	2770	2760	376	500	191
12	145	1190	468	944	3170	2300	1210	2250	3220	285	1050	149
13	134	1330	444	996	2510	2040	1140	1840	4030	252	1910	236
14	138	998	432	1030	2110	1830	1230	1660	2900	246	1290	369
15	217	852	444	1970	1870	1680	1360	1760	2200	275	758	303
16	316	776	501	3950	2160	1950	2930	2150	1800	381	495	404
17	333	672	709	6570	2110	3600	2260	1660	1300	366	398	659
18	265	554	865	7030	1840	3740	1790	1270	1000	327	389	426
19	229	446	1580	8370	1570	3130	1560	1060	850	281	362	312
20	208	383	4440	8700	1510	3140	1720	907	690	342	312	252
21	203	350	3330	4080	1500	2980	2390	804	670	314	268	216
22	201	324	1950	2850	1330	2720	2280	2650	549	279	265	197
23	201	298	1390	2160	1240	2810	1960	2850	481	284	266	186
24	195	293	1100	4500	1130	2870	1710	1270	453	248	211	173
25	193	293	912	5370	1010	2810	1460	1530	524	209	199	166
26	189	283	739	3920	939	2670	1520	2100	501	221	189	159
27	184	271	671	3430	896	2230	1710	3540	459	211	195	150
28	262	260	577	3060	1560	2510	1550	6320	386	215	186	236
29	371	293	535	2470	2890	4900	1380	11300	348	219	168	1130
30	382	336	460	2020	---	4430	1530	8700	327	199	167	1210
31	312	---	451	1700	---	3480	---	3810	---	248	148	---
TOTAL	7734	21348	26712	93848	62985	97420	61290	88141	46786	9722	15625	8849
MEAN	249	712	862	3027	2172	3143	2043	2843	1560	314	504	295
MAX	723	3590	4440	8700	11100	9890	4540	11300	4510	655	1910	1210
MIN	109	240	386	487	440	1160	1140	804	327	199	148	128
CFSM	.23	.65	.78	2.75	1.97	2.85	1.86	2.58	1.42	.28	.46	.27
IN.	.26	.72	.90	3.17	2.13	3.29	2.07	2.98	1.58	.33	.53	.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1996, BY WATER YEAR (WY)

	MEAN	539	929	1700	2050	2694	2718	2248	1943	1004	458	426	320
MAX	4189	3019	4649	5168	6392	7268	4479	7189	4166	1200	945	1154	
(WY)	1990	1986	1992	1979	1994	1994	1994	1984	1989	1992	1977	1989	
MIN	92.8	152	196	155	790	541	452	614	136	90.2	85.6	83.0	
(WY)	1981	1982	1981	1981	1988	1988	1986	1977	1988	1988	1988	1983	

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1977 - 1996

	ANNUAL TOTAL	470518	540460	1413	1994
ANNUAL MEAN	1289	1477	1477	477	1988
HIGHEST ANNUAL MEAN				2570	1994
LOWEST ANNUAL MEAN				477	1988
HIGHEST DAILY MEAN	21100	May 19	11300	May 29	52200
LOWEST DAILY MEAN	42	Sep 11	109	Oct 3	26
ANNUAL SEVEN-DAY MINIMUM	57	Sep 6	147	Aug 29	30
INSTANTANEOUS PEAK FLOW			12400	Feb 9	53500
INSTANTANEOUS PEAK STAGE			17.94	Feb 9	43.10
INSTANTANEOUS LOW FLOW			105	Oct 3	.00
ANNUAL RUNOFF (CFSM)	1.17		1.34		1.28
ANNUAL RUNOFF (INCHES)	15.90		18.26		17.44
10 PERCENT EXCEEDS	3010		3440		3200
50 PERCENT EXCEEDS	590		905		646
90 PERCENT EXCEEDS	124		199		126

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 15 ft downstream 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 sea level. Prior to Dec. 26, 1957, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Nov. 7, Feb. 2-7, Mar. 11, 12, 23-29. Records good except for periods of estimated record, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1957 reached a stage of 19.43 ft, from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

		DAILY MEAN VALUES											
DAY		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1	2.2	8.9	16	50	86	149	279	108	83	7.9	49	6.5
	2	2.1	33	15	409	70	117	314	133	68	45	22	6.3
	3	2.6	43	15	371	63	86	235	123	58	118	15	19
	4	7.6	22	17	175	57	69	185	105	64	26	11	11
	5	36	16	16	120	52	80	148	112	45	17	9.4	11
	6	14	15	15	102	48	695	124	184	35	13	8.9	7.3
	7	6.2	450	18	110	45	1160	108	253	50	12	9.3	9.7
	8	4.0	75	16	84	605	432	101	495	280	144	17	8.1
	9	3.4	39	24	90	696	237	93	345	401	97	43	7.1
	10	3.4	27	21	77	282	185	82	193	168	41	15	6.4
	11	3.4	70	22	80	179	155	77	146	97	25	11	6.1
	12	3.1	61	20	86	127	130	72	110	103	21	171	7.0
	13	3.3	38	24	84	100	114	67	85	89	26	80	38
	14	16	35	28	141	98	102	62	70	64	21	43	13
	15	19	30	28	338	177	116	68	101	48	35	28	8.4
	16	8.4	25	54	429	163	153	84	78	39	28	21	19
	17	6.0	21	59	445	131	229	76	68	32	18	30	14
	18	4.9	19	94	268	109	190	75	58	35	16	43	9.6
	19	4.2	16	350	610	92	199	77	48	33	18	20	8.0
	20	4.6	15	249	262	83	181	119	41	29	26	15	6.9
	21	8.1	14	132	174	70	166	142	209	23	14	13	6.7
	22	7.9	17	90	132	65	156	128	221	20	12	9.6	6.8
	23	6.4	15	69	113	62	160	114	90	17	10	8.4	6.2
	24	5.9	13	56	311	56	165	90	61	17	8.7	9.9	6.0
	25	5.6	11	48	218	50	170	84	49	22	10	15	6.5
	26	5.8	10	42	177	49	150	114	112	14	15	9.0	6.1
	27	15	9.6	39	178	80	145	93	119	11	8.7	23	6.4
	28	33	9.9	34	149	316	300	85	754	9.6	7.4	23	133
	29	14	18	31	133	203	315	80	771	8.9	8.9	10	63
	30	9.7	18	27	121	---	250	118	225	8.2	9.0	7.9	28
31	8.1	---	34	100	---	209	---	128	---	76	7.2	---	
TOTAL		273.9	1194.4	1703	6137	4214	6965	3494	5595	1971.7	934.6	797.6	491.1
MEAN		8.84	39.8	54.9	198	145	225	116	180	65.7	30.1	25.7	16.4
MAX		36	450	350	610	696	1160	314	771	401	144	171	133
MIN		2.1	8.9	15	50	45	69	62	41	8.2	7.4	7.2	6.0
CFSM		.14	.65	.90	3.23	2.37	3.67	1.90	2.94	1.07	.49	.42	.27
IN.		.17	.72	1.03	3.72	2.56	4.23	2.12	3.40	1.20	.57	.48	.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1996, BY WATER YEAR (WY)

MEAN	28.1	61.9	113	147	173	202	160	117	55.9	32.6	24.4	18.9
MAX	287	309	359	597	371	620	428	449	423	144	107	125
(WY)	1990	1978	1973	1974	1994	1975	1977	1983	1989	1958	1966	1974
MIN	.26	6.64	3.30	6.97	27.0	21.4	16.6	14.0	3.17	2.17	1.16	.73
(WY)	1964	1966	1966	1981	1968	1988	1963	1964	1988	1970	1988	1969

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1958 - 1996	
ANNUAL TOTAL	24352.2		33771.3		94.1	
ANNUAL MEAN	66.7		92.3		212	
HIGHEST ANNUAL MEAN					1974	
LOWEST ANNUAL MEAN					27.6	
HIGHEST DAILY MEAN	1570	May 19	1160	Mar 7	4890	May 7 1988
LOWEST DAILY MEAN	1.1	Sep 6	2.1	Oct 2	.00	Sep 29 1959
ANNUAL SEVEN-DAY MINIMUM	1.2	Sep 4	3.8	Oct 7	.01	Sep 11 1964
INSTANTANEOUS PEAK FLOW			2040	Mar 7	14200	Mar 12 1963
INSTANTANEOUS PEAK STAGE			6.09	Mar 7	16.23	Mar 12 1963
INSTANTANEOUS LOW FLOW			2.1	Oct 2	.00	Sep 29 1959
ANNUAL RUNOFF (CFSM)	1.09		1.51		1.54	
ANNUAL RUNOFF (INCHES)	14.78		20.49		20.86	
10 PERCENT EXCEEDS	132		219		205	
50 PERCENT EXCEEDS	25		48		33	
90 PERCENT EXCEEDS	2.6		7.8		2.8	

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 sea level. Prior to Feb. 6, 1940, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges Aug. 18-21. Records good except for period of estimated record, which is fair. Flow regulated by Buckhorn Lake beginning December 1960 (station 03280800).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	347	183	185	905	2090	2010	435	3470	118	490	137
2	48	337	110	392	660	1240	2580	1220	2790	93	631	74
3	47	351	108	1450	529	1340	2680	1230	2770	152	265	59
4	98	351	109	2450	299	715	2120	1170	1420	458	182	64
5	309	343	132	2730	297	660	1240	778	549	301	154	68
6	342	340	128	1600	552	1170	738	684	419	205	80	78
7	149	911	169	1290	412	3480	454	1170	425	150	69	91
8	94	1710	258	1210	576	4130	400	1190	312	104	68	94
9	76	1800	272	452	2470	3800	383	2600	2020	117	73	98
10	68	1220	251	488	2880	3630	291	3180	3560	286	79	145
11	64	583	210	685	3300	3480	274	2310	3500	361	71	122
12	63	627	182	593	3120	3290	264	1810	3100	290	320	100
13	60	657	182	657	3030	2450	233	1240	2410	217	330	122
14	67	630	231	705	1540	1520	212	780	1780	154	545	230
15	80	485	222	1010	1340	904	303	651	589	170	381	196
16	79	449	212	2600	2020	739	898	674	678	158	299	283
17	70	543	220	3840	1670	1620	486	865	434	150	230	431
18	266	544	233	3930	1340	2270	350	614	387	249	120	275
19	268	338	554	4130	414	2290	330	457	288	285	135	187
20	268	287	1720	3580	805	2020	692	409	272	269	180	132
21	268	335	2560	3450	1050	2040	1180	283	266	174	140	123
22	266	313	2410	2520	896	1720	1510	363	196	155	111	117
23	265	273	1150	1590	815	1690	1470	792	149	142	109	116
24	265	272	617	2680	609	1710	1360	425	141	133	102	113
25	265	265	518	2470	646	1680	1060	373	176	105	77	110
26	262	284	346	2760	528	1890	958	792	155	105	74	84
27	273	214	311	2310	386	1750	958	1740	136	107	64	80
28	303	183	313	2030	604	1460	438	3150	133	106	62	120
29	321	221	257	2210	1680	2330	279	4700	131	131	72	276
30	349	229	219	1410	---	3050	355	3720	131	110	117	708
31	386	---	202	1170	---	2780	---	3600	---	149	143	---
TOTAL	5788	15442	14589	58577	35373	64938	26506	43405	32787	5704	5773	4833
MEAN	187	515	471	1890	1220	2095	884	1400	1093	184	186	161
MAX	386	1800	2560	4130	3300	4130	2680	4700	3560	458	631	708
MIN	47	183	108	185	297	660	212	283	131	93	62	59
CFSM	.35	.96	.88	3.52	2.27	3.90	1.65	2.61	2.04	.34	.35	.30
IN.	.40	1.07	1.01	4.06	2.45	4.50	1.84	3.01	2.27	.40	.40	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1996, BY WATER YEAR (WY)

	MEAN	324	582	965	1315	1477	1678	1174	939	463	215	179	180
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	148	45.5	56.8	270	241	98.7	57.9	49.1	43.6	45.0	45.9	
(WY)	1989	1961	1966	1981	1968	1988	1986	1986	1988	1988	1988	1987	

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1961 - 1996

ANNUAL TOTAL	267415	313715	
ANNUAL MEAN	733	857	788
HIGHEST ANNUAL MEAN			1492
LOWEST ANNUAL MEAN			267
HIGHEST DAILY MEAN	7450	May 19	10300
LOWEST DAILY MEAN	45	Sep 8	11
ANNUAL SEVEN-DAY MINIMUM	45	Sep 6	12
INSTANTANEOUS PEAK FLOW			5280
INSTANTANEOUS PEAK STAGE			18.07
INSTANTANEOUS LOW FLOW			47
ANNUAL RUNOFF (CFSM)	1.36	1.60	1.47
ANNUAL RUNOFF (INCHES)	18.52	21.73	19.93
10 PERCENT EXCEEDS	2400	2530	2520
50 PERCENT EXCEEDS	265	358	300
90 PERCENT EXCEEDS	50	99	66

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 sea level.

REMARKS.--Estimated daily discharges: Nov. 8-13, and Feb. 3-8. Records good except for periods of estimated record, which are poor.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	22	46	103	260	550	749	578	193	14	345	13
2	5.1	58	46	710	222	373	822	652	165	32	113	18
3	4.8	93	48	1540	136	259	679	582	231	165	65	12
4	7.9	90	77	711	120	189	512	422	170	63	43	25
5	168	61	83	409	95	187	397	335	114	34	31	41
6	157	42	79	307	80	3080	298	556	94	24	23	26
7	56	1750	74	277	70	3490	254	567	96	20	18	16
8	28	1000	72	215	400	1480	227	1740	152	137	15	29
9	17	250	74	193	3150	734	230	1410	582	148	18	21
10	13	150	83	204	1110	482	196	695	546	68	21	12
11	9.5	260	80	193	661	364	179	464	286	38	14	8.2
12	9.1	500	86	223	426	297	173	325	267	27	133	6.7
13	9.3	170	82	219	293	252	166	227	246	22	186	39
14	23	137	86	274	268	211	161	177	182	18	74	40
15	42	109	93	936	538	268	176	266	140	34	46	16
16	39	85	225	1430	612	474	350	273	113	58	34	55
17	22	71	270	1980	440	1250	310	219	91	39	33	52
18	15	62	334	1090	335	779	275	171	78	33	67	32
19	12	55	1300	2140	256	690	255	137	66	23	37	21
20	10	49	1390	1030	230	658	502	114	57	35	24	14
21	10	43	596	625	188	557	763	95	51	39	17	11
22	10	40	331	415	167	490	553	125	44	23	13	8.6
23	10	35	233	313	157	573	418	88	37	20	11	6.3
24	10	35	180	1390	146	664	302	75	32	16	11	5.3
25	11	32	150	978	126	721	250	71	34	12	18	4.9
26	11	27	130	651	122	647	386	240	36	23	13	5.0
27	23	25	117	807	190	500	352	506	24	41	57	20
28	64	24	100	746	1590	678	300	3030	21	22	138	215
29	66	34	89	580	879	1130	267	1630	19	16	43	324
30	38	45	73	423	---	896	538	576	16	15	20	84
31	27	---	78	330	---	652	---	295	---	671	14	---
TOTAL	933.8	5354	6705	21442	13267	23575	11040	16641	4183	1930	1695	1181.0
MEAN	30.1	178	216	692	457	760	368	537	139	62.3	54.7	39.4
MAX	168	1750	1390	2140	3150	3490	822	3030	582	671	345	324
MIN	4.8	22	46	103	70	187	161	71	16	12	11	4.9
CFSM	.19	1.15	1.40	4.46	2.95	4.91	2.37	3.46	.90	.40	.35	.25
IN.	.22	1.28	1.61	5.15	3.18	5.66	2.65	3.99	1.00	.46	.41	.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1996, BY WATER YEAR (WY)

MEAN	90.3	228	385	466	520	599	430	349	166	83.1	51.5	40.6
MAX	758	796	1180	1150	1244	1678	954	1176	998	351	192	138
(WY)	1990	1978	1991	1974	1994	1975	1977	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	1.81
(WY)	1979	1988	1981	1981	1988	1988	1986	1986	1988	1988	1988	1983

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1973 - 1996

ANNUAL TOTAL	89732.82	107946.8	
ANNUAL MEAN	246	295	283
HIGHEST ANNUAL MEAN			513
LOWEST ANNUAL MEAN			92.2
HIGHEST DAILY MEAN	5750	May 14	16200
LOWEST DAILY MEAN	.35	Sep 10	.20
ANNUAL SEVEN-DAY MINIMUM	.52	Sep 5	.52
INSTANTANEOUS PEAK FLOW			28500
INSTANTANEOUS PEAK STAGE			21.14
INSTANTANEOUS LOW FLOW			.20
ANNUAL RUNOFF (CFSM)	1.59	1.90	1.83
ANNUAL RUNOFF (INCHES)	21.54	25.91	24.82
10 PERCENT EXCEEDS	595	710	612
50 PERCENT EXCEEDS	83	125	96
90 PERCENT EXCEEDS	5.3	15	7.3

KENTUCKY RIVER BASIN

03281100 GOOSE CREEK AT MANCHESTER, KY

LOCATION.--Lat 37°09'07", long 83°45'37", Clay County, Hydrologic Unit 05100203, on left bank on downstream side of Second Street bridge at Manchester, 0.9 mi upstream from Little Goose Creek, and at mile 21.7.

DRAINAGE AREA.--163 mi².

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 819.37 ft above sea level. Prior to September 15, 1975, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Feb. 2-8. Records good except for period of estimated record, which is poor.

EXTREMES OUTSIDE PERIOD OF RECORD.---Flood of June 28, 1947, Jan. 29, 1957, and Mar. 12, 1963, reached a stage of 40.6 ft, discharge, 38,000 ft³/s, 37.3 ft, discharge, 29,800 ft³/s, and 33.5 ft, discharge, 21,500 ft³/s, respectively, present site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	27	70	102	253	548	664	706	164	13	258	12
2	9.2	60	70	532	200	396	689	613	131	16	81	13
3	8.0	193	72	1670	180	296	577	513	232	35	44	14
4	25	123	156	727	150	224	449	400	182	33	30	31
5	294	77	195	431	115	219	371	315	126	20	22	28
6	291	55	178	326	85	2050	295	321	91	15	18	26
7	91	1870	153	292	74	2820	259	382	73	13	15	27
8	49	1500	133	234	400	1480	233	1050	110	41	15	30
9	33	341	140	203	2610	651	233	1270	2610	36	14	37
10	25	196	149	214	1190	446	202	590	2370	29	13	31
11	21	330	142	216	629	351	185	435	553	19	12	26
12	17	701	132	245	424	297	174	332	419	15	83	27
13	17	338	120	238	318	251	168	243	455	12	127	41
14	31	230	113	273	282	214	164	195	319	11	51	52
15	42	169	106	795	376	245	165	287	214	17	32	46
16	37	126	215	1190	464	331	341	333	145	23	23	74
17	28	101	310	1670	396	959	329	270	104	47	28	67
18	22	82	366	1150	338	697	296	206	81	52	51	58
19	19	74	1070	2470	278	591	274	153	67	27	24	39
20	20	64	1480	1050	271	558	392	116	54	23	18	30
21	27	57	629	579	256	493	733	90	44	19	15	25
22	26	49	374	402	235	447	530	88	38	18	12	22
23	25	46	262	322	226	511	405	65	33	23	10	19
24	26	48	200	1290	208	510	312	53	29	16	11	17
25	27	43	162	1040	176	527	257	45	28	16	12	17
26	25	39	135	607	163	512	305	225	24	49	10	16
27	37	37	116	788	182	432	291	442	21	37	11	24
28	76	36	98	705	1390	549	258	1960	18	22	14	141
29	65	46	81	527	966	982	240	978	16	17	14	211
30	44	62	71	419	---	829	635	422	14	14	12	78
31	34	---	73	328	---	586	---	246	---	196	11	---
TOTAL	1502.2	7120	7571	21035	12835	20002	10426	13344	8765	924	1091	1279
MEAN	48.5	237	244	679	443	645	348	430	292	29.8	35.2	42.6
MAX	294	1870	1480	2470	2610	2820	733	1960	2610	196	258	211
MIN	8.0	27	70	102	74	214	164	45	14	11	10	12
CFSM	.30	1.46	1.50	4.16	2.72	3.96	2.13	2.64	1.79	.18	.22	.26
IN.	.34	1.62	1.73	4.80	2.93	4.56	2.38	3.05	2.00	.21	.25	.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1996, BY WATER YEAR (WY)

MEAN	90.3	203	381	450	496	533	421	313	149	96.0	52.3	46.0
MAX	600	646	1229	1205	1196	1665	983	1158	975	381	178	185
(WY)	1990	1978	1991	1974	1972	1975	1972	1984	1989	1965	1977	1979
MIN	2.13	11.4	28.3	22.9	70.5	111	50.7	29.3	6.48	2.03	3.72	2.11
(WY)	1970	1988	1966	1981	1968	1969	1986	1965	1988	1966	1988	1965

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1965 - 1996

ANNUAL TOTAL	89706.8	105894.2	
ANNUAL MEAN	246	289	268
HIGHEST ANNUAL MEAN			456
LOWEST ANNUAL MEAN			107
HIGHEST DAILY MEAN	4160	May 14	2820
LOWEST DAILY MEAN	3.1	Aug 25	8.0
ANNUAL SEVEN-DAY MINIMUM	3.7	Sep 5	11
INSTANTANEOUS PEAK FLOW			5670
INSTANTANEOUS PEAK STAGE			19.07
INSTANTANEOUS LOW FLOW			8.0
ANNUAL RUNOFF (CFSM)	1.51	1.78	1.65
ANNUAL RUNOFF (INCHES)	20.47	24.17	22.36
10 PERCENT EXCEEDS	541	691	579
50 PERCENT EXCEEDS	101	143	91
90 PERCENT EXCEEDS	8.4	17	6.2

KENTUCKY RIVER BASIN

03281500 SOUTH FORK KENTUCKY RIVER AT BOONEVILLE, KY

LOCATION.--Lat 37°27'45", long 83°40'38", Owsley County, Hydrologic Unit 05100203, on right bank 600 ft downstream from Buck Creek, 0.2 mi downstream from bridge on State Highway 30 at Booneville, 0.5 mi downstream from Meadow Creek, and at mile 11.5.

DRAINAGE AREA.--722 mi².

PERIOD OF RECORD.--March 1925 to September 1931, October 1939 to current year. Monthly discharge only for October 1939, published in WSP 1305.

REVISED RECORDS.--WSP 893: 1929(M). WSP 1335: WSP 1555: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 642.49 ft above sea level. See WDR KY-92-1 for history of changes prior to Nov. 27, 1929.

REMARKS.--Estimated daily discharges: Feb. 4-8. Records good except for period of estimated record, which is poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	194	233	338	1130	2240	2430	2420	1120	108	2650	80
2	53	171	265	802	929	1620	2930	2080	872	169	836	66
3	43	204	279	5470	711	1250	2580	2030	1480	286	438	60
4	138	494	438	4040	520	971	2070	1610	1510	391	280	59
5	753	404	722	2070	420	831	1740	1280	1050	251	200	66
6	1590	307	651	1410	360	3080	1400	1180	771	173	154	106
7	723	1690	558	1220	300	10300	1230	1150	603	131	126	111
8	391	5800	490	1070	1600	9140	1080	1720	551	110	119	93
9	250	1990	449	861	7820	3610	1020	4560	2620	177	142	114
10	182	844	426	901	6040	2180	912	2710	7780	335	101	146
11	142	737	418	859	2840	1650	791	1690	3050	207	97	95
12	114	1780	404	943	1880	1380	731	1340	3600	148	251	84
13	96	1490	403	989	1390	1210	705	1040	3130	118	462	176
14	108	911	386	1020	1180	1060	769	820	1780	103	520	205
15	138	692	371	2270	1190	986	856	827	1170	156	293	169
16	210	547	378	4100	1590	1190	2100	1200	848	145	204	442
17	206	449	635	6380	1450	2890	1830	1050	645	153	183	717
18	168	381	780	5990	1260	3140	1430	856	507	171	265	492
19	134	335	1450	8840	1090	2500	1240	687	411	305	410	307
20	113	299	4580	6830	1060	2590	1310	557	367	375	232	219
21	104	268	3030	2890	1120	2260	2850	481	314	218	158	166
22	96	241	1610	1870	1030	1990	2640	417	267	173	123	134
23	95	224	1040	1410	976	2030	2040	394	230	143	103	112
24	90	218	785	4230	899	2080	1660	322	206	115	99	97
25	82	204	640	5450	780	2040	1330	295	219	106	89	85
26	77	191	546	2930	705	2030	1300	564	204	96	101	74
27	100	177	486	3140	669	1690	1550	1780	169	105	98	80
28	186	171	427	3190	1900	1810	1320	7240	146	172	92	192
29	295	185	380	2400	3740	3940	1170	15200	127	204	207	812
30	310	200	324	1820	---	3810	1490	4680	113	116	148	739
31	243	---	311	1410	---	2670	---	1770	---	167	102	---
TOTAL	7298	21798	23895	87143	46579	80168	46504	63950	35860	5627	9283	6298
MEAN	235	727	771	2811	1606	2586	1550	2063	1195	182	299	210
MAX	1590	5800	4580	8840	7820	10300	2930	15200	7780	391	2650	812
MIN	43	171	233	338	300	831	705	295	113	96	89	59
CFSM	.33	1.01	1.07	3.89	2.22	3.58	2.15	2.86	1.66	.25	.41	.29
IN.	.38	1.12	1.23	4.49	2.40	4.13	2.40	3.29	1.85	.29	.48	.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 1996, BY WATER YEAR (WY)

MEAN	218	665	1366	1835	2139	2325	1698	1118	578	398	259	150
MAX	2843	2380	4935	5461	5905	7400	4633	5130	2710	2666	1700	827
(WY)	1990	1974	1991	1974	1956	1975	1972	1984	1989	1941	1942	1989
MIN	.084	.32	12.1	104	178	568	222	119	36.7	3.67	4.56	.68
(WY)	1954	1954	1954	1981	1941	1988	1963	1941	1966	1944	1930	1930

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1925 - 1996

ANNUAL TOTAL	354765.8	434403	
ANNUAL MEAN	972	1187	1062
HIGHEST ANNUAL MEAN			1808
LOWEST ANNUAL MEAN			413
HIGHEST DAILY MEAN	15900	May 19	51300
LOWEST DAILY MEAN	4.3	Sep 12	.00
ANNUAL SEVEN-DAY MINIMUM	5.9	Sep 9	.00
INSTANTANEOUS PEAK FLOW		77	66100
INSTANTANEOUS PEAK STAGE		26.61	43.40
INSTANTANEOUS LOW FLOW		40	.00
ANNUAL RUNOFF (CFSM)	1.35	1.64	1.47
ANNUAL RUNOFF (INCHES)	18.28	22.38	19.98
10 PERCENT EXCEEDS	2310	2860	2420
50 PERCENT EXCEEDS	404	619	354
90 PERCENT EXCEEDS	53	106	26

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 above sea level, Ohio River datum. Prior to September 2, 1939, nonrecording gage at lock 14 at same datum.

REMARKS.--Estimated daily discharges: Oct. 17, Feb. 4-7, and Mar. 5. Records good above 1,000 ft³/s, fair between 1,000 ft³/s and 150 ft³/s, and poor below 150 ft³/s and for periods of estimated record. Flow regulated by Buckhorn Lake beginning December 1960 (station 03280800), and by Carr Fork Lake beginning January 1976 (station 03277446).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	323	951	781	929	4380	8480	10200	5580	9480	516	3760	353
2	264	811	793	1760	3520	5730	13100	5810	7350	495	3410	288
3	212	780	803	10400	2760	5250	13000	5780	7850	778	1730	229
4	338	1260	866	13900	1900	4000	10300	5360	6550	1190	992	213
5	1390	1520	1320	9270	1500	3000	7840	4440	4180	1360	726	219
6	3100	1260	1390	6130	1200	6160	6160	3800	3110	898	548	299
7	2000	2540	1230	4620	980	22400	4980	4560	2510	640	454	412
8	1100	11600	1190	3910	2700	28900	4280	5930	2170	505	398	419
9	725	8050	1180	2820	18800	20600	3870	16400	7440	468	391	462
10	538	4130	1100	2700	25200	12800	3490	15400	20400	726	724	628
11	425	2720	964	2740	16700	10000	3070	9520	14800	1050	1220	489
12	349	3590	993	2870	11000	8670	2750	6710	13500	860	1220	392
13	301	3990	1030	2920	8800	7150	2560	4980	14400	629	2290	539
14	306	3160	1050	3040	6420	5620	2720	3430	9430	522	3130	599
15	406	2420	1090	4970	5250	4480	2890	3740	5770	1540	2110	784
16	464	2010	1160	10900	6120	4400	6800	4580	4010	1070	1370	1380
17	600	1840	1440	19000	6240	7940	6990	4690	2860	720	1080	2560
18	765	1690	1970	22700	5480	11800	5140	3470	2190	701	834	1910
19	707	1380	3610	25700	4040	10300	4210	2600	1800	874	902	1120
20	649	1090	10200	25400	3870	10000	4830	2150	1570	1050	827	745
21	625	979	11600	17100	4410	9450	8470	1940	1430	791	660	573
22	596	951	7720	10000	4170	8370	8450	1810	1270	638	555	488
23	578	842	4670	6890	3760	8180	7150	5270	991	548	466	413
24	558	819	3110	13400	3370	8590	6190	3860	855	513	488	366
25	554	786	2420	18800	3020	8390	5030	2480	842	436	411	338
26	553	742	1970	13600	2770	8210	4520	3750	893	410	352	295
27	590	712	1600	11700	2500	7360	5090	8410	813	353	342	302
28	749	616	1440	10900	3580	6450	4480	18800	733	381	330	709
29	938	636	1260	9180	9070	12100	3630	33300	625	521	380	1550
30	1140	713	1060	6970	---	15800	3850	26400	572	431	427	3070
31	1110	---	961	5480	---	12500	---	15400	---	610	391	---
TOTAL	22953	64588	71971	300699	173510	303080	176040	240350	150394	22224	32918	22144
MEAN	740	2153	2322	9700	5983	9777	5868	7753	5013	717	1062	738
MAX	3100	11600	11600	25700	25200	28900	13100	33300	20400	1540	3760	3070
MIN	212	616	781	929	980	3000	2560	1810	572	353	330	213
CFSM	.28	.81	.87	3.65	2.25	3.68	2.21	2.92	1.89	.27	.40	.28
IN.	.32	.90	1.01	4.21	2.43	4.24	2.46	3.37	2.11	.31	.46	.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1996, BY WATER YEAR (WY)

MEAN	1470	2793	5156	5985	7484	7620	5945	5069	2470	1110	996	812
MAX	10380	7006	14850	14010	16710	18260	13190	16010	10380	3320	3006	3680
(WY)	1990	1978	1991	1994	1994	1994	1994	1984	1989	1992	1977	1989
MIN	242	431	582	362	2345	1791	855	910	247	206	154	170
(WY)	1989	1988	1981	1981	1988	1988	1986	1986	1988	1988	1988	1984

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1977 - 1996	
ANNUAL TOTAL	1321987		1580871			
ANNUAL MEAN	3622		4319		3892	
HIGHEST ANNUAL MEAN					6973	
LOWEST ANNUAL MEAN					1461	
HIGHEST DAILY MEAN	39500	May 19	33300	May 29	85900	May 8 1984
LOWEST DAILY MEAN	77	Sep 11	212	Oct 3	45	Jul 10 1988
ANNUAL SEVEN-DAY MINIMUM	88	Sep 8	285	Aug 31	53	Jul 4 1988
INSTANTANEOUS PEAK FLOW			35800	May 29	120000	Feb 4 1939
INSTANTANEOUS PEAK STAGE			18.70	May 29	35.60	Feb 4 1939
INSTANTANEOUS LOW FLOW			193	Oct 3	4.0	Oct 20 1930
ANNUAL RUNOFF (CFSM)	1.36		1.63		1.46	
ANNUAL RUNOFF (INCHES)	18.51		22.13		19.90	
10 PERCENT EXCEEDS	9440		10900		9840	
50 PERCENT EXCEEDS	1390		2180		1650	
90 PERCENT EXCEEDS	258		434		293	

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 gage. Datum of gage is 704.53 ft above sea level.

REMARKS.--Estimated daily discharges: Nov. 24 to Jan. 25 and Feb. 3-7. Records good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	22	48	140	107	107	326	138	113	7.0	17	5.2
2	3.1	21	45	300	86	99	370	123	94	8.8	9.6	4.1
3	3.4	26	42	250	82	86	282	105	295	17	6.7	3.4
4	40	26	40	175	78	71	217	88	220	18	5.2	3.3
5	467	22	39	125	74	74	177	74	133	10	4.0	3.9
6	164	19	38	95	70	631	135	73	88	7.1	3.1	40
7	55	385	37	92	67	1090	113	73	67	5.6	2.6	13
8	33	250	37	90	242	496	98	100	68	4.6	2.2	9.4
9	24	106	36	110	648	289	93	106	682	4.1	1.8	20
10	18	71	35	105	322	203	79	86	434	3.6	1.9	22
11	15	194	34	98	221	162	70	75	269	3.0	2.3	10
12	13	229	34	85	159	138	64	70	1060	2.6	54	49
13	11	127	37	80	123	117	66	53	547	2.6	49	178
14	17	96	40	150	111	99	101	45	264	4.2	20	42
15	32	74	44	250	102	101	131	92	148	134	11	24
16	27	58	53	400	88	136	311	90	91	44	56	337
17	20	48	110	750	76	319	214	72	67	17	60	195
18	16	42	200	1400	74	242	163	56	163	9.8	46	80
19	14	37	450	700	68	296	140	42	66	7.2	25	48
20	13	32	250	300	111	309	468	35	48	42	14	33
21	14	29	130	200	117	277	446	30	36	23	10	24
22	15	26	100	160	113	262	285	39	27	15	17	20
23	15	25	92	400	107	292	221	25	22	13	10	16
24	14	82	88	2500	93	256	159	20	18	8.9	7.9	13
25	13	74	83	700	80	231	128	17	24	7.7	11	11
26	12	67	80	171	75	175	149	159	18	9.0	11	10
27	32	60	78	649	70	142	117	398	13	6.3	7.3	24
28	61	56	72	363	133	219	100	1680	11	4.7	11	254
29	40	53	68	260	115	408	93	2590	8.8	4.4	15	206
30	30	52	68	186	---	322	156	390	7.5	4.4	9.2	86
31	25	---	68	142	---	242	---	190	---	18	6.8	---
TOTAL	1257.7	2409	2576	11426	3812	7891	5472	7134	5102.3	466.6	507.6	1784.3
MEAN	40.6	80.3	83.1	369	131	255	182	230	170	15.1	16.4	59.5
MAX	467	385	450	2500	648	1090	468	2590	1060	134	60	337
MIN	1.2	19	34	80	67	71	64	17	7.5	2.6	1.8	3.3
CFSM	.52	1.04	1.07	4.77	1.70	3.29	2.36	2.98	2.20	.19	.21	.77
IN.	.61	1.16	1.24	5.50	1.83	3.80	2.63	3.43	2.46	.22	.24	.86

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1996, BY WATER YEAR (WY)

MEAN	29.8	78.0	127	287	233	308	200	186	72.0	11.3	21.9	25.0
MAX	63.0	151	193	403	484	540	304	345	170	17.5	29.3	59.5
(WY)	1994	1994	1994	1994	1994	1994	1994	1995	1996	1994	1994	1996
MIN	6.54	21.2	62.1	139	131	122	147	26.1	19.1	4.06	14.1	3.80
(WY)	1995	1995	1995	1993	1996	1995	1993	1993	1994	1995	1995	1995

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1993 - 1996

ANNUAL TOTAL	38942.43	49838.5	
ANNUAL MEAN	107	136	131
HIGHEST ANNUAL MEAN			195
LOWEST ANNUAL MEAN			96.9
HIGHEST DAILY MEAN	2390	May 19	2890
LOWEST DAILY MEAN	.35	Aug 5	.35
ANNUAL SEVEN-DAY MINIMUM	.48	Sep 9	.48
INSTANTANEOUS PEAK FLOW			8080
INSTANTANEOUS PEAK STAGE			14.66
INSTANTANEOUS LOW FLOW			1.2
ANNUAL RUNOFF (CFSM)	1.38	1.76	1.70
ANNUAL RUNOFF (INCHES)	18.74	23.98	23.06
10 PERCENT EXCEEDS	249	300	314
50 PERCENT EXCEEDS	45	70	48
90 PERCENT EXCEEDS	1.5	7.8	4.1

KENTUCKY RIVER BASIN

03282500 RED RIVER NEAR HAZEL GREEN, KY

LOCATION.--Lat 37°48'44", long 83°27'50", Wolfe County, Hydrologic Unit 05100204, on right bank 600 ft upstream from Buck Creek, 0.3 mi downstream from Chapel Branch, 2.7 mi northwest of Hazel Green, and at mile 72.7.

DRAINAGE AREA.--65.8 mi².

PERIOD OF RECORD.--April 1954 to current year.

REVISED RECORDS.--WRD KY 72-1: 1971.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 870.11 ft above sea level.

REMARKS.--Estimated daily discharges: Dec. 8-15, 27-31, Jan. 7-13, and Feb. 4-7. Records fair except for daily discharges below 10 ft³/s and periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.63	5.8	9.1	26	73	95	404	126	103	10	24	.90
2	.60	5.5	9.6	81	59	85	541	112	83	9.1	13	.71
3	.53	6.1	9.6	245	46	71	320	94	217	8.6	8.7	.66
4	2.5	6.3	9.6	127	38	54	223	82	169	9.0	7.2	.65
5	75	5.6	9.6	80	31	54	185	228	103	8.2	5.7	.65
6	48	5.9	9.8	61	25	221	142	573	72	7.0	4.3	.64
7	16	64	9.6	49	23	595	120	253	55	6.3	4.5	.64
8	8.6	89	8.0	39	175	405	99	475	70	5.6	3.8	.63
9	5.8	34	6.3	33	716	232	85	723	388	11	3.8	.62
10	2.7	21	5.5	26	322	154	73	310	300	7.8	3.1	.93
11	2.1	33	4.9	22	205	128	65	196	363	5.6	2.2	.81
12	1.7	59	3.7	16	136	109	59	137	730	4.1	11	.64
13	1.3	37	3.7	15	98	94	57	93	435	3.3	23	1.2
14	8.5	28	3.6	49	89	86	91	72	232	6.5	12	2.3
15	18	22	5.5	147	80	94	115	139	132	334	7.9	1.1
16	11	17	61	213	67	117	389	336	85	87	6.2	30
17	7.1	15	53	509	53	224	244	201	63	30	6.3	60
18	5.0	12	55	444	53	186	169	124	48	21	6.1	21
19	3.1	11	307	681	48	199	129	84	37	35	4.7	11
20	2.9	10	239	313	75	228	224	64	31	64	3.4	7.7
21	3.1	9.0	102	184	93	202	293	48	26	28	3.9	5.8
22	3.0	8.2	65	122	92	193	208	43	21	19	8.0	4.1
23	3.0	8.6	47	104	92	223	177	33	48	15	6.2	3.0
24	2.1	11	36	806	80	237	153	27	49	12	4.1	1.4
25	1.7	11	30	428	68	227	126	70	38	10	3.1	1.3
26	1.5	12	25	242	65	170	129	136	24	10	2.0	1.3
27	7.9	8.6	21	281	59	128	114	320	18	9.6	1.7	4.9
28	16	8.2	18	207	105	145	95	679	15	7.7	1.6	43
29	12	8.0	15	163	111	348	89	895	13	7.1	1.6	48
30	8.0	8.4	13	122	---	293	116	362	11	6.7	1.2	19
31	6.7	---	10	93	---	219	---	176	---	10	1.1	---
TOTAL	286.06	580.2	1205.1	5928	3177	5816	5234	7211	3979	808.2	195.4	274.58
MEAN	9.23	19.3	38.9	191	110	188	174	233	133	26.1	6.30	9.15
MAX	75	89	307	806	716	595	541	895	730	334	24	60
MIN	.53	5.5	3.6	15	23	54	57	27	11	3.3	1.1	.62
CFSM	.14	.29	.59	2.91	1.66	2.85	2.65	3.54	2.02	.40	.10	.14
IN.	.16	.33	.68	3.35	1.80	3.29	2.96	4.08	2.25	.46	.11	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1996, BY WATER YEAR (WY)

MEAN	17.1	51.7	116	133	181	195	157	99.6	38.6	30.0	25.3	14.8
MAX	138	227	555	357	555	523	472	318	163	157	141	180
(WY)	1990	1986	1979	1974	1989	1955	1972	1983	1974	1981	1974	1974
MIN	.22	.54	2.76	17.5	27.6	49.1	16.6	13.9	1.19	1.52	.27	.17
(WY)	1964	1956	1964	1981	1968	1969	1986	1986	1988	1970	1957	1955

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1954 - 1996
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ANNUAL TOTAL	29478.92		34694.54						
ANNUAL MEAN	80.8		94.8			88.1			
HIGHEST ANNUAL MEAN						153			1994
LOWEST ANNUAL MEAN						39.6			1969
HIGHEST DAILY MEAN	1790	May 19	895	May 29	6170		Dec 9		1978
LOWEST DAILY MEAN	.27	Sep 26	.53	Oct 3	.00		Sep 14		1954
ANNUAL SEVEN-DAY MINIMUM	.28	Sep 24	.64	Sep 3	.00		Sep 12		1955
INSTANTANEOUS PEAK FLOW			1150	May 5	9080		Feb 27		1962
INSTANTANEOUS PEAK STAGE			5.57	May 5		22.12	Feb 27		1962
INSTANTANEOUS LOW FLOW			.53	Oct 3	.53		Oct 3		1995
ANNUAL RUNOFF (CFSM)	1.23		1.44			1.34			
ANNUAL RUNOFF (INCHES)	16.67		19.61			18.18			
10 PERCENT EXCEEDS	219		244		201				
50 PERCENT EXCEEDS	19		36		30				
90 PERCENT EXCEEDS	.64		2.8		1.4				

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 sea level (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.--Estimated daily discharges: Dec. 10-14, 27-31, Jan. 8-14, and Feb. 2-7. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	66	61	138	475	545	1380	713	769	55	99	29
2	17	59	57	382	410	492	2690	608	550	50	93	27
3	48	59	55	1220	365	439	1790	549	649	120	86	26
4	162	66	52	1000	315	362	1220	548	726	101	69	26
5	742	65	51	525	280	324	1080	1210	530	68	61	26
6	1170	56	49	373	245	862	831	4590	396	49	53	27
7	367	210	47	310	215	2690	696	4320	323	42	48	27
8	177	780	47	230	421	2670	596	2210	356	39	45	29
9	105	407	45	220	2180	1350	518	3920	801	38	45	39
10	72	216	41	200	1990	873	457	2340	1410	38	45	39
11	55	222	37	180	1070	751	398	1210	1080	33	43	45
12	45	428	33	170	755	665	359	960	1980	34	75	41
13	38	367	31	160	568	598	337	703	2360	31	70	56
14	36	263	29	190	497	537	477	558	1320	31	67	68
15	43	202	48	552	462	658	747	836	772	2050	70	53
16	100	153	87	977	405	959	1430	1840	520	2560	54	227
17	84	122	284	2000	344	1370	1200	1200	384	549	62	565
18	60	100	320	2570	310	1180	820	780	297	365	64	353
19	48	85	1060	4140	291	1310	656	570	239	312	49	162
20	43	74	1580	3670	484	1650	1040	448	195	679	43	96
21	42	64	765	1260	690	1340	1720	361	158	422	41	71
22	41	56	420	794	586	1170	1160	294	129	259	36	58
23	38	73	293	614	589	1260	1510	243	111	182	35	52
24	36	156	224	3660	528	1420	1300	208	133	136	34	45
25	33	137	176	4920	442	1430	925	309	200	112	37	40
26	32	103	141	1860	398	1150	861	601	171	121	44	37
27	48	84	130	1410	383	846	739	1550	113	110	41	36
28	98	78	105	1260	755	746	593	3610	84	89	78	83
29	156	73	90	931	667	1310	532	5130	70	88	49	490
30	114	66	78	753	---	1470	778	4950	60	80	37	301
31	84	---	69	597	---	1100	---	1440	---	80	32	---
TOTAL	4151	4890	6505	37266	17120	33527	28840	48809	16886	8923	1705	3174
MEAN	134	163	210	1202	590	1082	961	1574	563	288	55.0	106
MAX	1170	780	1580	4920	2180	2690	2690	5130	2360	2560	99	565
MIN	17	56	29	138	215	324	337	208	60	31	32	26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1996, BY WATER YEAR (WY)

MEAN	88.4	275	618	787	1019	1068	836	538	268	262	182	109
MAX	928	1220	3036	2634	3564	3048	2406	1943	1199	1845	1179	1185
(WY)	1990	1987	1979	1950	1989	1955	1972	1995	1950	1938	1938	1974
MIN	4.41	9.75	19.7	43.2	127	258	110	54.6	23.9	5.01	18.2	6.15
(WY)	1964	1954	1954	1931	1954	1969	1986	1941	1988	1944	1957	1984

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1931 - 1996

ANNUAL TOTAL	183508	211796	497
ANNUAL MEAN	503	579	884
HIGHEST ANNUAL MEAN			158
LOWEST ANNUAL MEAN			26100
HIGHEST DAILY MEAN	9010	May 20	Dec 9 1978
LOWEST DAILY MEAN	13	Sep 14	1.2
ANNUAL SEVEN-DAY MINIMUM	14	Sep 8	2.0
INSTANTANEOUS PEAK FLOW			28800
INSTANTANEOUS PEAK STAGE			26.75
INSTANTANEOUS LOW FLOW			1.2
10 PERCENT EXCEEDS	1220	1410	1190
50 PERCENT EXCEEDS	156	271	181
90 PERCENT EXCEEDS	28	39	22

KENTUCKY RIVER BASIN

03284000 KENTUCKY RIVER AT LOCK 10, NEAR WINCHESTER, KY

LOCATION.--Lat 37°53'41", long 84°15'44", Madison County, Hydrologic Unit 05100205, on left bank at lock 10, 0.9 mi downstream from Otter Creek, 8.0 mi southwest of Winchester, and at mile 176.4.

DRAINAGE AREA.--3,955 mi².

PERIOD OF RECORD.--October 1907 to current year.

REVISED RECORDS.--WSP 1275: 1908-52. 1955: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 557.37 ft above sea level (Ohio River datum). Feb. 2, 1940 to Aug. 10, 1943, water-stage recorder 1.1 mi upstream at different datum. Aug. 11, 1943 to June 12, 1978, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges: Records fair. Flow regulated since January 1976 by Carr Fork Lake (station 03277446), since December 1960 by Buckhorn Lake (station 03280800).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	434	1210	975	1540	6040	10000	13700	7030	14100	731	1490	431
2	392	1090	1000	2360	4750	8660	15900	7370	9540	738	3650	364
3	473	950	1000	8670	3920	6860	17000	7210	8620	870	2780	297
4	1350	985	997	15500	3060	5590	14500	7580	9050	1060	1740	237
5	4520	1350	1120	13100	2390	4340	11700	8230	6620	1320	1180	203
6	7090	1530	1420	9060	2250	7530	9200	15500	4410	1310	901	209
7	4050	2070	1450	6390	2540	21500	7470	10700	3720	978	795	335
8	2280	7850	1360	5050	3220	33200	6120	10700	3900	778	718	612
9	1460	11400	1360	4180	10700	30700	5170	15400	4960	659	696	616
10	1070	6760	1330	3440	27000	19000	4680	20800	16400	596	600	664
11	805	4150	1240	3360	23800	13300	4110	14600	21100	758	875	741
12	627	4490	1130	3560	15200	10900	3630	9710	18300	930	1290	690
13	489	4980	1140	3690	11100	9470	3270	7470	19900	868	1800	720
14	411	4370	1210	3840	9000	7870	3430	5650	15200	743	2510	870
15	432	3400	1240	6010	6950	6790	3890	6470	9560	7040	2760	888
16	503	2690	1430	10600	6300	7250	7810	7830	6080	10900	2020	2140
17	608	2300	1690	20600	6980	9580	10200	7310	4340	3530	1530	4550
18	754	2090	2350	26700	6540	13300	8240	5910	3170	1900	1270	3890
19	820	1910	6030	39600	5500	14300	6410	4260	2690	1600	1080	2500
20	767	1590	9290	39100	4810	15100	7210	3220	2220	2420	1070	1700
21	715	1400	13200	27700	5770	14100	12000	2710	1920	2120	956	1220
22	676	1310	10800	15800	5860	12600	12200	2340	1670	1530	853	925
23	629	1270	7300	10400	5320	12000	11900	2660	1460	1180	736	789
24	608	1640	4600	22700	4800	12000	11100	4660	1240	979	644	702
25	612	1490	3280	28000	4150	11900	8530	3330	1180	880	595	626
26	688	1300	2710	22400	3680	11100	7200	4500	1180	786	532	550
27	680	1190	2310	16300	3360	9980	7000	11500	1130	704	598	517
28	888	1040	2000	15300	4620	8800	6590	24500	978	639	980	2360
29	1090	928	1830	12600	7210	11800	5380	41700	855	697	718	2880
30	1200	947	1610	10300	---	17300	5820	43200	758	780	581	3060
31	1270	---	1470	7550	---	16600	---	30500	---	782	494	---
TOTAL	38391	79680	89872	415400	206820	393420	251360	354550	196251	50806	38442	36286
MEAN	1238	2656	2899	13400	7132	12690	8379	11440	6542	1639	1240	1210
MAX	7090	11400	13200	39600	27000	33200	17000	43200	21100	10900	3650	4550
MIN	392	928	975	1540	2250	4340	3270	2340	758	596	494	203

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1996, BY WATER YEAR (WY)

MEAN	1595	3416	7247	8877	10250	12140	9474	6750	3148	1685	1533	1240
MAX	12850	10270	23400	25490	25060	27650	26100	19600	13380	4640	4916	6676
(WY)	1990	1987	1979	1974	1989	1975	1972	1984	1989	1992	1992	1974
MIN	177	372	416	446	2011	3125	1177	1031	265	292	258	175
(WY)	1970	1964	1966	1981	1968	1988	1986	1976	1988	1970	1986	1984

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1961 - 1996

ANNUAL TOTAL	1926693	2151278	
ANNUAL MEAN	5279	5878	5592
HIGHEST ANNUAL MEAN			9815
LOWEST ANNUAL MEAN			2228
HIGHEST DAILY MEAN	49600	43200	99100
LOWEST DAILY MEAN	131	203	116
ANNUAL SEVEN-DAY MINIMUM	146	297	122
INSTANTANEOUS PEAK FLOW		43800	101000
INSTANTANEOUS PEAK STAGE		19.96	40.15
10 PERCENT EXCEEDS	12900	14700	14200
50 PERCENT EXCEEDS	1920	3220	2400
90 PERCENT EXCEEDS	435	679	344

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 sea level. Prior to Dec. 16, 1942, nonrecording gage at same site and datum. May to August 1905, nonrecording gage at site 6 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 1-3 and Feb. 3-8. Records good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	76	88	149	344	545	600	994	442	39	169	31
2	1.6	67	80	498	263	427	882	596	324	33	140	24
3	5.7	76	75	2000	220	335	658	445	319	35	118	21
4	839	188	72	950	200	267	513	355	315	49	174	32
5	2330	146	70	573	185	243	485	286	254	59	110	27
6	1720	112	68	452	175	3040	437	650	186	41	80	20
7	455	1020	66	381	155	3690	369	420	163	29	68	16
8	248	1690	63	305	135	1880	316	418	377	24	57	16
9	166	610	61	390	1000	993	291	362	705	19	365	46
10	122	380	56	358	706	709	263	266	688	17	166	56
11	85	768	50	334	483	580	223	215	1180	16	95	36
12	66	1320	44	378	379	492	199	200	2500	14	419	44
13	54	615	45	406	318	422	183	175	1290	11	796	29
14	48	425	53	437	290	359	190	144	682	11	314	21
15	46	320	60	1270	274	452	200	168	435	1470	187	16
16	44	250	69	1460	253	546	496	427	309	1770	129	200
17	40	205	93	2970	215	998	392	239	231	333	383	944
18	34	178	131	1610	191	719	274	172	182	201	463	435
19	30	158	719	4710	188	834	230	132	224	1440	239	223
20	28	137	1080	1840	336	1220	687	104	202	35100	137	146
21	28	121	576	872	504	1140	1430	85	165	7860	92	104
22	34	105	396	636	403	989	658	73	116	1060	93	82
23	36	101	305	523	351	1020	1270	64	92	636	88	76
24	31	171	247	4290	301	861	1420	61	78	411	67	67
25	28	193	207	2020	245	704	790	49	196	306	55	52
26	26	161	179	972	221	618	630	1140	146	323	44	42
27	31	142	164	1110	228	465	573	3820	105	235	38	39
28	218	131	155	960	1290	428	401	5670	72	196	78	4400
29	221	112	132	674	874	745	351	4790	56	261	108	1790
30	140	98	124	536	---	688	1310	1500	46	254	61	705
31	98	---	119	435	---	544	---	681	---	194	42	---
TOTAL	7255.0	10076	5647	34499	10727	26953	16721	24701	12080	52447	5375	9740
MEAN	234	336	182	1113	370	869	557	797	403	1692	173	325
MAX	2330	1690	1080	4710	1290	3690	1430	5670	2500	35100	796	4400
MIN	1.6	67	44	149	135	243	183	49	46	11	38	16
CFSM	.74	1.06	.57	3.50	1.16	2.73	1.75	2.51	1.27	5.32	.55	1.02
IN.	.85	1.18	.66	4.04	1.25	3.15	1.96	2.89	1.41	6.14	.63	1.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1996, BY WATER YEAR (WY)

MEAN	102	308	675	794	992	987	679	471	241	179	95.9	163
MAX	1323	1471	3656	3140	4129	2625	2736	2618	933	1692	527	3430
(WY)	1980	1987	1979	1950	1989	1994	1972	1983	1981	1996	1958	1979
MIN	.000	.030	.69	17.0	72.1	174	57.1	51.8	8.83	.31	.93	.013
(WY)	1953	1954	1954	1981	1954	1983	1986	1976	1988	1944	1952	1953

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1943 - 1996

ANNUAL TOTAL	170693.9	216221.0	
ANNUAL MEAN	468	591	471
HIGHEST ANNUAL MEAN			1184
LOWEST ANNUAL MEAN			119
HIGHEST DAILY MEAN	16300	May 19	35100
LOWEST DAILY MEAN	1.6	Oct 2	1.6
ANNUAL SEVEN-DAY MINIMUM	4.0	Sep 27	16
INSTANTANEOUS PEAK FLOW			52400
INSTANTANEOUS PEAK STAGE			18.93
INSTANTANEOUS LOW FLOW			1.6
ANNUAL RUNOFF (CFSM)	1.47		1.86
ANNUAL RUNOFF (INCHES)	19.97		25.29
10 PERCENT EXCEEDS	1020		1150
50 PERCENT EXCEEDS	148		230
90 PERCENT EXCEEDS	11		39

KENTUCKY RIVER BASIN

03285200 CLARKS RUN NEAR DANVILLE, KY

LOCATION.--Lat 37°38'31", long 84°43'16", Boyle County, Hydrologic Unit 05100205, on downstream side of bridge on County Highway 1805, 0.4 mi north of State Highway 52, 1.8 mi southeast of Danville, and 2.2 mi upstream from mouth.

DRAINAGE AREA.--26.4 mi².

PERIOD OF RECORD.--October 1992 to current year.

GAGE.--Water-stage recorder. Datum of gage is 803.09 above sea level.

REMARKS.--Estimated daily discharges: Feb. 2-7. Records good except for period of estimated record, which is poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	7.9	12	19	27	41	97	79	40	5.7	31	15
2	3.6	10	10	97	23	35	91	52	35	5.8	23	15
3	16	21	9.8	139	20	30	70	43	30	13	18	7.5
4	27	12	9.5	68	18	26	55	37	32	6.7	14	7.0
5	241	10	9.2	46	17	33	47	34	23	6.4	13	6.5
6	59	11	8.9	38	16	401	40	32	19	5.4	12	5.9
7	28	90	8.7	34	15	339	36	32	22	5.4	10	5.3
8	19	54	7.6	29	29	148	33	43	26	5.3	7.2	5.2
9	15	31	9.1	27	35	96	30	32	49	5.2	9.1	3.9
10	14	25	9.4	26	27	68	28	27	90	4.7	7.9	5.2
11	12	114	9.4	26	25	54	27	28	192	4.2	7.2	5.0
12	11	58	8.2	30	23	45	26	24	163	4.2	17	4.2
13	11	39	7.1	30	21	40	31	20	76	4.2	13	4.1
14	14	32	6.3	60	21	36	36	19	46	4.0	8.9	4.0
15	12	26	7.1	188	21	68	63	49	34	76	8.0	3.8
16	9.1	22	14	187	18	66	51	26	27	16	7.4	95
17	8.0	18	10	205	17	74	38	20	23	11	6.0	41
18	8.0	16	35	153	16	60	36	18	18	9.0	5.8	19
19	7.7	14	155	357	17	102	33	15	19	726	5.6	13
20	15	14	103	110	70	112	182	14	17	1110	5.4	9.8
21	12	14	59	71	50	109	91	13	14	110	12	9.9
22	8.8	12	41	50	40	104	57	10	11	64	14	14
23	7.8	18	33	54	36	97	143	8.7	10	41	7.6	9.0
24	7.2	23	28	534	30	75	85	8.3	10	28	6.1	7.8
25	6.5	16	24	136	28	65	60	8.4	12	26	5.7	7.2
26	4.4	15	21	86	26	46	63	218	8.3	21	5.7	6.5
27	23	15	19	84	28	39	42	185	7.0	16	5.4	13
28	15	15	18	56	101	44	37	221	6.7	21	10	505
29	10	14	16	44	51	70	52	284	6.9	24	6.5	143
30	7.9	13	16	37	---	51	200	100	6.7	59	5.4	64
31	8.6	---	17	32	---	46	---	60	---	51	4.7	---
TOTAL	644.9	779.9	741.3	3053	866	2620	1880	1760.4	1073.6	2489.2	312.6	1054.8
MEAN	20.8	26.0	23.9	98.5	29.9	84.5	62.7	56.8	35.8	80.3	10.1	35.2
MAX	241	114	155	534	101	401	200	284	192	1110	31	505
MIN	3.3	7.9	6.3	19	15	26	26	8.3	6.7	4.0	4.7	3.8
CFSM	.79	.98	.91	3.73	1.13	3.20	2.37	2.15	1.36	3.04	.38	1.33
IN.	.91	1.10	1.04	4.30	1.22	3.69	2.65	2.48	1.51	3.51	.44	1.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1996, BY WATER YEAR (WY)

MEAN	12.4	22.4	38.5	88.5	82.1	124	57.0	71.0	31.1	30.5	14.0	13.3
MAX	20.8	35.7	60.1	127	149	238	93.7	167	46.6	80.3	23.8	35.2
(WY)	1996	1994	1994	1994	1994	1994	1995	1995	1996	1994	1996	1996
MIN	5.40	10.3	23.9	54.6	29.9	80.1	34.0	10.5	15.9	11.8	7.18	4.73
(WY)	1993	1995	1996	1993	1996	1995	1995	1993	1994	1993	1993	1994

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1993 - 1996

ANNUAL TOTAL	17542.3	17275.7	
ANNUAL MEAN	48.1	47.2	48.6
HIGHEST ANNUAL MEAN			69.1
LOWEST ANNUAL MEAN			31.2
HIGHEST DAILY MEAN	957 Mar 8	1110 Jul 20	2570 Mar 9 1994
LOWEST DAILY MEAN	2.2 Sep 30	3.3 Oct 1	1.5 Oct 2 1994
ANNUAL SEVEN-DAY MINIMUM	2.7 Aug 25	4.3 Sep 9	2.1 Jul 5 1993
INSTANTANEOUS PEAK FLOW		5490 Jul 20	5490 Jul 20 1996
INSTANTANEOUS PEAK STAGE		11.72 Jul 20	11.72 Jul 20 1996
INSTANTANEOUS LOW FLOW			1.2 Oct 2 1994
ANNUAL RUNOFF (CFSM)	1.82	1.79	1.84
ANNUAL RUNOFF (INCHES)	24.72	24.34	25.04
10 PERCENT EXCEEDS	111	98	103
50 PERCENT EXCEEDS	17	23	19
90 PERCENT EXCEEDS		4.5	6.5
			4.3

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. Records 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 1992 TO SEPTEMBER 1993

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1300	910	3160	6950	4260	11400	24700	8100	840	1390	830	585
2	1130	910	2630	6200	3680	11000	29400	6550	850	1270	695	463
3	975	1060	2370	5400	3170	11700	25600	5650	1270	1070	655	478
4	865	1090	1920	5300	2850	23100	19800	5050	3130	1130	575	2170
5	885	1390	1910	13500	2580	43100	15900	5600	10100	1060	600	3130
6	1120	1760	1750	13000	2380	47100	13800	4980	8950	850	720	2580
7	1290	1460	1490	9900	2210	38200	12800	3910	6450	895	755	1720
8	1610	1380	1420	9150	2170	23200	12800	3250	4100	730	800	1280
9	1830	1460	1410	8750	2140	17400	11800	2850	2640	498	725	990
10	1850	1540	1490	8650	1860	15200	10500	2590	2230	445	620	775
11	1350	1500	2350	8650	1770	13900	9200	2500	1730	413	640	600
12	1610	1340	3710	9100	2170	12200	7950	2720	3170	450	865	560
13	1460	1620	4300	10200	2700	9900	6850	2630	4200	670	10400	565
14	1360	2130	4690	10100	3930	8500	5900	2640	3900	890	21400	510
15	1220	1880	4580	9450	4490	7750	5100	2390	8650	975	17500	420
16	830	1900	4250	8900	7000	7600	5100	1900	7700	1710	9400	675
17	775	1880	5500	7350	13900	15300	6100	1790	5100	2410	4900	2140
18	630	1680	11200	6450	15400	25200	6650	2050	3840	3060	3250	3140
19	625	1240	15500	5300	13400	27100	6450	3120	3130	3130	2500	2740
20	515	1130	15400	4470	10200	24200	5900	2650	2450	2460	1870	2070
21	550	1180	19500	4610	22400	21400	5350	2120	1830	1740	1410	1630
22	720	1540	19800	6550	43700	21200	5250	2160	1550	1350	1000	1200
23	715	3790	16200	7200	41400	23700	5900	1880	1550	920	850	1000
24	785	5600	19200	6400	35400	32800	7100	1650	1230	750	1110	750
25	750	7900	24000	7800	21200	39900	7350	1370	1280	620	1160	690
26	730	8650	19400	9550	14400	38500	10400	1130	1200	491	1070	720
27	820	6900	13700	9550	12800	27300	17200	1080	1140	515	1010	1010
28	845	5150	10900	8300	12300	19500	18400	1040	1140	635	1270	1930
29	825	3990	9450	6900	---	19700	14000	865	1220	1100	1200	3120
30	810	3510	8250	5550	---	19000	10600	845	1070	1060	815	3250
31	875	---	7500	4760	---	17600	---	815	---	1110	745	---
TOTAL	31655	77470	258930	243940	305860	673650	343850	87875	97640	35797	91340	42891
MEAN	1021	2582	8353	7869	10920	21730	11460	2835	3255	1155	2946	1430
MAX	1850	8650	24000	13500	43700	47100	29400	8100	10100	3130	21400	3250
MIN	515	910	1410	4470	1770	7600	5100	815	840	413	575	420

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

MEAN	1021	2582	8353	7869	10920	21730	11460	2835	3255	1155	2946	1430
MAX	1021	2582	8353	7869	10920	21730	11460	2835	3255	1155	2946	1430
(WY)	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993
MIN	1021	2582	8353	7869	10920	21730	11460	2835	3255	1155	2946	1430
(WY)	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993

SUMMARY STATISTICS FOR 1993 WATER YEAR

ANNUAL TOTAL	2290898	
ANNUAL MEAN	6276	
HIGHEST DAILY MEAN	47100	Mar 6
LOWEST DAILY MEAN	413	Jul 11
ANNUAL SEVEN-DAY MINIMUM	585	Jul 8
INSTANTANEOUS PEAK FLOW	51400	Feb 21
INSTANTANEOUS PEAK STAGE	22.52	Feb 21
10 PERCENT EXCEEDS	17400	
50 PERCENT EXCEEDS	2630	
90 PERCENT EXCEEDS	739	

KENTUCKY RIVER BASIN

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2570	1920	9450	6800	17000	14000	45200	13300	2120	1750	2050	610
2	1960	2310	6950	6500	14100	14200	32400	11100	1740	1420	1710	615
3	1490	2440	5400	7650	12100	22400	24400	9400	1180	1080	1350	585
4	1140	2950	8400	16500	9950	32300	20100	9700	1030	970	980	580
5	950	2910	32000	27300	7950	31200	17100	9900	950	810	2620	570
6	735	2750	44800	25900	6750	23700	15100	8900	1000	830	5500	525
7	755	2580	47200	31800	6250	18300	16600	9600	1150	825	5750	510
8	570	2340	35700	44900	6050	25900	18200	22500	1360	720	3940	440
9	491	2190	18900	48600	19700	53500	17900	34000	1780	605	2480	408
10	630	2000	14500	46700	34900	70000	16700	32500	1920	565	1750	379
11	595	1780	14900	26500	43900	71000	18500	20800	1810	515	1340	320
12	610	1650	14200	21000	48400	64000	30600	13800	1790	488	1060	297
13	700	1630	12800	23000	53500	46900	37700	9900	1380	590	860	282
14	760	1830	11200	24800	51000	30800	32600	7250	1290	795	730	285
15	770	7750	10400	19200	39700	18600	31200	6850	1200	775	655	336
16	890	12700	9900	14300	28500	16000	46200	7500	1270	1560	615	565
17	1930	15200	9550	11600	21000	14100	48000	6250	1170	2910	650	940
18	3270	19000	9350	11500	15800	12700	41200	5250	1030	3100	610	1210
19	3500	21500	8750	9950	14300	11700	26200	4440	835	2920	745	815
20	8200	15000	8000	8650	12900	10900	18200	3730	710	2280	935	1220
21	15100	9950	6950	6750	13700	9950	14500	3200	955	1600	1510	1200
22	13000	7600	7100	5250	20200	9450	12400	2820	1030	1280	2000	1160
23	9000	6250	6400	4350	43700	10500	11100	2760	1280	1540	2100	1090
24	5900	5000	5700	5450	53500	10300	9900	2770	1110	1940	2250	980
25	4340	4020	5150	11600	56500	9300	8050	2440	1060	2020	2030	660
26	3460	3390	4860	31900	46000	9300	6150	2190	1090	1860	1680	457
27	2960	4310	4470	39900	24900	23600	5200	1920	1410	1810	1350	415
28	2470	11400	4140	48200	16500	48700	5250	1860	2630	1960	975	434
29	2070	17300	4160	48200	---	57500	5650	1790	3030	2000	855	415
30	1950	15100	5200	35300	---	59000	9350	1930	2460	2150	770	392
31	1840	---	6200	23400	---	56500	---	2100	---	2210	690	---
TOTAL	94606	206750	392680	693450	738750	906300	641650	272450	42770	45878	52540	18695
MEAN	3052	6892	12670	22370	26380	29240	21390	8789	1426	1480	1695	623
MAX	15100	21500	47200	48600	56500	71000	48000	34000	3030	3100	5750	1220
MIN	491	1630	4140	4350	6050	9300	5200	1790	710	488	610	282

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1994, BY WATER YEAR (WY)

MEAN	2036	4737	10510	15120	18650	25480	16420	5812	2340	1317	2321	1026
MAX	3052	6892	12670	22370	26380	29240	21390	8789	3255	1480	2946	1430
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1993	1994	1993	1993
MIN	1021	2582	8353	7869	10920	21730	11460	2835	1426	1155	1695	623
(WY)	1993	1993	1993	1993	1993	1993	1993	1993	1994	1993	1994	1994

SUMMARY STATISTICS FOR 1993 CALENDAR YEAR FOR 1994 WATER YEAR WATER YEARS 1993 - 1994

ANNUAL TOTAL	2616879	4106519	
ANNUAL MEAN	7170	11250	8764
HIGHEST ANNUAL MEAN			11250
LOWEST ANNUAL MEAN			6276
HIGHEST DAILY MEAN	47200	71000	71000
LOWEST DAILY MEAN	413	282	282
ANNUAL SEVEN-DAY MINIMUM	585	330	330
INSTANTANEOUS PEAK FLOW		92800	92800
INSTANTANEOUS PEAK STAGE		37.90	37.90
10 PERCENT EXCEEDS	17900	32500	23700
50 PERCENT EXCEEDS	3680	5150	3150
90 PERCENT EXCEEDS	741	678	720

KENTUCKY RIVER BASIN

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	384	625	3350	770	7250	6400	2870	5650	4350	1850	525	399
2	421	1260	2390	800	6700	7050	2620	12000	4350	1870	491	312
3	404	1210	1790	800	5800	6450	2470	14200	4600	1580	493	321
4	291	1250	1920	780	5300	5750	2280	12600	4500	1340	505	364
5	278	1380	4820	765	5500	5400	2210	10200	4170	1190	525	460
6	293	795	5500	3280	6400	7850	2080	8900	3350	1390	555	520
7	410	615	3830	14700	6650	11500	1920	7500	2820	1370	575	206
8	252	795	3120	22200	6100	23000	1810	6200	2360	1300	770	165
9	334	600	2560	15400	5350	33300	1790	7200	2090	1090	890	167
10	367	615	5200	9950	4200	35300	1760	13200	2270	910	1440	160
11	303	630	14800	6950	3910	27700	1720	11000	1850	770	1970	150
12	367	575	10200	6150	3650	23000	1830	12600	3800	635	1590	137
13	785	625	7000	5750	3300	21200	2750	16400	9250	560	1390	179
14	1730	580	4820	6050	2880	18600	3370	37100	10300	620	1200	183
15	1960	535	3550	17600	5250	15100	3210	48100	7650	780	1160	346
16	1470	635	2810	34900	26100	12100	2870	49200	5050	950	1030	238
17	1080	630	2560	43400	41500	9350	2630	46300	3630	630	965	382
18	845	585	2310	33600	37600	7500	3480	51000	2630	700	885	570
19	870	550	2130	20100	25100	6300	3950	61500	2170	705	1000	710
20	770	535	2510	15600	16700	5500	3640	63000	2030	810	1030	770
21	765	510	2030	15300	13200	5300	6750	58000	2060	800	825	735
22	1520	470	1580	13300	11100	5650	11100	41800	2170	570	775	640
23	1460	414	1460	9600	9650	5600	11600	19600	2070	491	800	473
24	870	378	1400	7900	8200	5850	21400	13300	1800	510	540	356
25	825	357	1190	6300	6650	5550	27500	11100	1970	585	476	329
26	815	326	1100	5200	5350	5050	19400	10100	2140	550	395	393
27	845	805	1200	4090	4560	4530	12100	8900	2320	745	317	439
28	740	4530	1040	6550	5100	4110	9750	7350	2360	570	280	463
29	690	5800	975	10600	---	3830	8100	6700	1960	525	491	440
30	530	4420	875	8800	---	3520	6250	6500	1500	482	329	450
31	505	---	805	8150	---	3160	---	5350	---	483	414	---
TOTAL	23179	33035	100825	355335	289050	340500	185210	682550	103570	27361	24631	11457
MEAN	748	1101	3252	11460	10320	10980	6174	22020	3452	883	795	382
MAX	1960	5800	14800	43400	41500	35300	27500	63000	10300	1870	1970	770
MIN	252	326	805	765	2880	3160	1720	5350	1500	482	280	137

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1995, BY WATER YEAR (WY)

MEAN	1607	3525	8091	13900	15880	20650	13010	11210	2711	1172	1812	812
MAX	3052	6892	12670	22370	26380	29240	21390	22020	3452	1480	2946	1430
(WY)	1994	1994	1994	1994	1994	1994	1994	1995	1995	1994	1993	1993
MIN	748	1101	3252	7869	10320	10980	6174	2835	1426	883	795	382
(WY)	1995	1995	1995	1993	1995	1995	1995	1993	1994	1995	1995	1995

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1993 - 1995

ANNUAL TOTAL	3569522	2176703	
ANNUAL MEAN	9780	5964	7830
HIGHEST ANNUAL MEAN			11250
LOWEST ANNUAL MEAN			5964
HIGHEST DAILY MEAN	71000	63000	71000
LOWEST DAILY MEAN	252	137	137
ANNUAL SEVEN-DAY MINIMUM	318	163	163
INSTANTANEOUS PEAK FLOW		74500	92800
INSTANTANEOUS PEAK STAGE		30.75	37.90
10 PERCENT EXCEEDS	32100	14900	21300
50 PERCENT EXCEEDS	2120	2080	2750
90 PERCENT EXCEEDS	528	412	575

KENTUCKY RIVER BASIN

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	438	1450	1220	1800	8750	10900	16700	9000	22200	885	1930	650
2	430	1380	1180	2520	7150	10400	17600	9550	13400	690	3520	585
3	615	1310	1180	9050	6000	8700	19100	8950	11100	1080	3990	494
4	1140	1490	1180	16300	4870	7350	17100	9100	10700	1360	3030	434
5	3900	1530	1240	16500	3940	6150	14400	9250	9050	1410	2200	585
6	9450	1720	1490	12000	3420	8200	11900	18600	6500	1530	1770	635
7	6350	2130	1700	8700	3580	22100	9450	15000	5100	1370	1590	740
8	3480	6850	1870	6800	4120	35200	7800	13000	5050	1140	1500	840
9	2200	12200	1660	5450	9500	35800	6700	17500	6000	1040	1270	1030
10	1690	9500	1790	4990	24700	25900	6300	22300	14100	605	630	1150
11	1310	5850	1680	4630	28200	17500	5100	19000	22600	1030	910	1210
12	1080	5650	1430	4730	19800	14000	4390	12900	23200	825	1240	1110
13	915	6000	1330	4900	14500	12200	3910	9600	23000	1160	1780	1230
14	675	5800	1450	4980	11800	10600	3890	7450	19800	715	2510	1480
15	625	4760	1510	6450	9650	9100	4240	7400	13800	5050	3210	1570
16	585	3710	1780	10900	8300	9350	7350	9800	9200	12800	2840	2540
17	560	3080	1870	21700	8100	11600	10600	9100	6650	7300	2350	5400
18	625	2500	2600	28800	7650	14900	10100	8000	4960	3700	1910	5650
19	860	2270	6550	42500	6700	16800	8050	6300	3910	2710	1610	4150
20	945	1970	11400	44000	6550	18200	7900	5050	3270	11200	1700	2940
21	720	1660	14500	34800	6950	17700	12700	4010	2780	13800	1550	2190
22	780	1600	13700	22100	7200	16300	14200	3110	2320	6400	1360	1660
23	765	1520	10200	14300	6950	15300	14500	3160	1920	2730	1340	1240
24	730	1860	6900	25200	6250	14400	14600	4550	1780	1900	1120	1420
25	725	1970	4690	33100	5350	14100	11500	4360	1670	1720	835	1230
26	770	1750	3580	28400	4650	13800	9400	4890	1490	1610	755	810
27	930	1560	3050	21200	4390	12600	8900	11700	1570	1510	760	860
28	1270	1380	2580	18600	5500	10800	8000	25400	1370	1420	1060	3770
29	1250	1290	2280	16100	8550	13000	6900	45200	1340	1420	1210	7600
30	1360	1280	2020	13500	---	17600	7850	48300	1270	1450	1060	5400
31	1520	---	1830	10700	---	18900	---	39300	---	1200	750	---
TOTAL	48693	97020	111440	495700	253070	469450	301130	420830	251100	92760	53290	60603
MEAN	1571	3234	3595	15990	8727	15140	10040	13580	8370	2992	1719	2020
MAX	9450	12200	14500	44000	28200	35800	19100	48300	23200	13800	3990	7600
MIN	430	1280	1180	1800	3420	6150	3890	3110	1270	605	630	434

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1996, BY WATER YEAR (WY)

MEAN	1598	3452	6967	14420	14040	19270	12270	11800	4126	1627	1789	1114
MAX	3052	6892	12670	22370	26380	29240	21390	22020	8370	2992	2946	2020
(WY)	1994	1994	1994	1994	1994	1994	1994	1995	1996	1996	1993	1996
MIN	748	1101	3252	7869	8727	10980	6174	2835	1426	883	795	382
(WY)	1995	1995	1995	1993	1996	1995	1995	1993	1994	1995	1995	1995

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1993 - 1996

ANNUAL TOTAL	2276817	2655086	
ANNUAL MEAN	6238	7254	7686
HIGHEST ANNUAL MEAN			11250
LOWEST ANNUAL MEAN			5964
HIGHEST DAILY MEAN	63000	48300	71000
LOWEST DAILY MEAN	137	430	137
ANNUAL SEVEN-DAY MINIMUM	163	589	163
INSTANTANEOUS PEAK FLOW		49600	92800
INSTANTANEOUS PEAK STAGE		22.09	37.90
10 PERCENT EXCEEDS	14900	17500	19800
50 PERCENT EXCEEDS	2270	4390	3130
90 PERCENT EXCEEDS	491	913	625

KENTUCKY RIVER BASIN

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.--No estimated daily discharges. Records good above 1000 ft³/s and 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	369	1480	1310	1800	10500	10200	17500	9800	28200	914	2120	749
2	401	1490	1200	2280	8820	10700	16600	10500	15700	511	2770	683
3	679	1520	1200	8020	7440	9390	18300	9540	12200	1140	4750	592
4	701	1840	1190	14500	6200	8200	17300	9310	10900	1490	4060	553
5	2490	1490	1180	17700	5110	7280	15200	8860	10400	1270	3050	910
6	10600	1650	1310	13400	4240	7550	13000	19100	7880	1540	2490	1000
7	7970	1850	1710	10000	4210	19100	10200	17700	5920	1620	2250	1040
8	4320	4450	2170	7680	4490	31500	8430	13600	5560	1380	2170	1160
9	2710	11100	1740	6040	6490	35900	7420	17000	6250	1310	1730	1300
10	2150	11100	2030	5980	17800	29800	7180	20400	8920	513	539	1480
11	1690	6830	1920	5350	28600	19600	5410	21000	20500	1190	776	1530
12	1430	6040	1560	5310	22000	15300	4550	14400	25100	553	955	1370
13	1260	6190	1330	5510	16200	13400	4010	10500	22800	1310	1430	1600
14	871	6540	1490	5490	13200	12000	3770	8340	22000	558	2060	1920
15	746	5580	1580	5910	11200	10300	3930	7230	16500	1770	3170	2080
16	581	4290	1890	9490	9240	10300	5570	10500	11300	12800	3310	2510
17	404	3480	1770	19300	8010	12000	9440	9720	8280	10500	2920	5330
18	362	2570	2450	26500	7630	14300	10600	9170	6250	5220	2320	6660
19	757	2320	6030	38700	6980	17000	8610	7690	4700	3580	1940	5330
20	995	2080	11900	42300	7450	18900	7380	6370	3960	19800	2120	3840
21	606	1690	13500	37300	7210	19100	11400	4870	3320	25500	1960	2900
22	772	1670	15000	25900	7570	17900	14200	3510	2700	11100	1710	2190
23	795	1560	11900	16600	7690	16600	15300	3210	2140	4110	1820	1530
24	750	1800	8410	23900	6900	14700	16300	3640	2130	2670	1470	1980
25	739	2210	5580	33500	5820	14300	13000	4840	1970	2420	947	1690
26	736	2000	4010	30800	5020	14700	10400	4520	1620	2310	860	890
27	1070	1740	3410	23400	4870	13500	9670	10000	1830	2220	789	1030
28	1520	1550	2830	19400	5630	11400	8290	22200	1610	2120	957	4700
29	1220	1490	2430	17600	8650	12300	7500	41600	1700	2050	1570	11800
30	1310	1460	2160	15000	---	15000	8920	46100	1670	2010	1400	7140
31	1560	---	1960	12700	---	18500	---	43100	---	1510	869	---
TOTAL	52564	101060	118150	507360	265170	480720	309380	428320	274010	126989	61282	77487
MEAN	1696	3369	3811	16370	9144	15510	10310	13820	9134	4096	1977	2583
MAX	10600	11100	15000	42300	28600	35900	18300	46100	28200	25500	4750	11800
MIN	362	1460	1180	1800	4210	7280	3770	3210	1610	511	539	553

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1996, BY WATER YEAR (WY)

MEAN	1988	4178	9186	11080	12670	15040	11690	8415	4045	2107	1992	1765
MAX	13680	12450	31030	31910	34850	33640	35920	26910	14700	5406	6238	10850
(WY)	1990	1987	1979	1974	1989	1975	1972	1983	1989	1992	1992	1974
MIN	312	493	525	502	2655	3769	1491	1127	362	533	277	229
(WY)	1981	1988	1966	1981	1968	1983	1986	1976	1988	1970	1986	1984

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1961 - 1996

ANNUAL TOTAL	2307172	2802492	
ANNUAL MEAN	6321	7657	6989
HIGHEST ANNUAL MEAN			11050
LOWEST ANNUAL MEAN			2826
HIGHEST DAILY MEAN	68600	May 20	125000
LOWEST DAILY MEAN	95	Sep 8	83
ANNUAL SEVEN-DAY MINIMUM	135	Sep 7	112
INSTANTANEOUS PEAK FLOW			130000
INSTANTANEOUS PEAK STAGE			49.04
10 PERCENT EXCEEDS	14900	18000	17800
50 PERCENT EXCEEDS	2320	4850	3040
90 PERCENT EXCEEDS	455	998	486

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 sea level. See WDR KY-90-1 for history of changes prior to Jan. 28, 1982.

REMARKS.--Estimated daily discharges: Oct. 28 to Nov. 1, 7-9, Jan. 8-12, 20, and Feb. 1-7. Record good above 1,000 ft³/s and fair below and for periods of estimated record. 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 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	527	1600	1450	1980	11000	10100	22100	10300	28700	1110	2390	747
2	533	1610	1260	2940	9600	10800	18400	10600	15800	652	3090	719
3	861	2010	1240	9030	8200	9500	19200	9690	11900	1810	5010	699
4	800	2070	1220	14500	6900	8220	18000	9780	10500	1620	4320	675
5	3450	1710	1200	18000	6000	7550	15600	13000	10100	1170	3210	836
6	10600	1760	1260	13600	5100	10300	13200	29100	7820	1500	2550	908
7	8890	2300	1720	10100	4800	22500	10200	20600	8770	1660	2240	931
8	5550	5000	2200	8300	4840	32500	8500	14800	6560	1380	2220	889
9	3500	10000	1840	7000	6630	35200	7640	18100	7780	1400	1900	998
10	2540	11100	2010	6500	17100	31500	7210	21100	9040	658	750	1280
11	1840	8150	1970	6200	29200	20900	5920	22200	21300	1130	769	1430
12	1540	7020	1670	6000	23100	15700	4970	14900	29700	639	889	1250
13	1350	6850	1270	5960	16400	13500	4350	10600	24800	1360	1300	1630
14	935	7290	1480	5990	12900	11900	4080	8460	23000	754	1970	1800
15	832	6340	1550	6640	11000	10800	4200	8670	16500	2510	3210	2000
16	766	4890	3470	9810	9080	10500	5750	10800	11100	11900	3560	2590
17	555	3980	2290	23000	7970	12600	8970	9890	8150	10400	3140	5430
18	613	2920	5740	29100	7600	14500	10300	9210	6650	5440	2640	6700
19	676	2570	10500	39300	7170	20200	8490	7850	5420	3790	2010	5600
20	992	2280	13200	45000	9580	21400	9120	6600	4220	18800	2150	4020
21	773	1870	13800	36700	8220	20900	11400	5120	3500	26200	1970	3010
22	830	1800	15200	28000	8130	19300	14100	3860	2870	11500	1740	2300
23	842	1910	12100	18000	8120	17800	18800	3400	2220	4330	1810	1430
24	835	2500	8700	33000	7430	15300	17800	3670	2200	2910	1560	1920
25	803	2690	6230	34500	6520	14700	13600	4990	2060	2570	927	1710
26	818	2360	4410	32600	5570	15100	11000	5150	1680	2470	831	889
27	1140	2020	3890	25700	5490	13600	9880	11400	1820	2330	790	1050
28	2200	1800	3350	20300	7050	11400	8500	24700	1620	2180	850	10800
29	1750	1680	2710	18200	8790	12700	8110	43300	1670	2100	1380	12400
30	1600	1620	2380	15300	---	15000	10500	46000	1640	2090	1340	7550
31	1650	---	2110	12800	---	18900	---	42200	---	2300	841	---
TOTAL	60591	111700	133420	544050	279490	504870	329890	460040	289090	130663	63357	84191
MEAN	1955	3723	4304	17550	9638	16290	11000	14840	9636	4215	2044	2806
MAX	10600	11100	15200	45000	29200	35200	22100	46000	29700	26200	5010	12400
MIN	527	1600	1200	1980	4800	7550	4080	3400	1620	639	750	675

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1996, BY WATER YEAR (WY)

MEAN	2106	4480	9711	11650	13250	15840	12150	8798	4252	2264	2137	1894
MAX	13240	13700	33220	33500	35680	34760	36690	28200	14000	6039	6433	10980
(WY)	1990	1987	1979	1974	1989	1975	1972	1983	1989	1992	1992	1974
MIN	289	542	566	540	2885	4175	1518	1142	417	568	336	269
(WY)	1981	1966	1966	1981	1968	1983	1986	1976	1988	1970	1986	1984

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1961 - 1996	
ANNUAL TOTAL	2560758		2991352		7352	
ANNUAL MEAN	7016		8173		11860	
HIGHEST ANNUAL MEAN					11860	
LOWEST ANNUAL MEAN					3182	
HIGHEST DAILY MEAN	70400	May 19	46000	May 30	116000	Dec 10 1978
LOWEST DAILY MEAN	270	Sep 12	527	Oct 1	93	Jul 10 1988
ANNUAL SEVEN-DAY MINIMUM	314	Sep 8	744	Oct 16	128	Jul 4 1988
INSTANTANEOUS PEAK FLOW			48100	May 29	118000	Dec 9 1978
INSTANTANEOUS PEAK STAGE			20.16	May 29	48.47	Dec 10 1978
10 PERCENT EXCEEDS	15600		19600		18200	
50 PERCENT EXCEEDS	2710		5460		3320	
90 PERCENT EXCEEDS	579		934		542	

KENTUCKY RIVER BASIN

03288000 NORTH ELKHORN CREEK NEAR GEORGETOWN, KY

LOCATION.--Lat 38°12'20", long 84°30'49", Scott County, Hydrologic Unit 05100205, on left bank at upstream side of bridge on Crumbaugh Lane, 1.7 mi downstream from Miller Run, 2.5 mi east of Georgetown, 2.7 mi upstream from Lanes Run, and at mile 58.3.

DRAINAGE AREA.--119 mi², of which about 8 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1949 to August 1984; October 1988 to current year. Monthly discharge only October 1949 to March 1950, published in WSP 1305.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 796.49 ft above sea level. Prior to Sept. 18, 1952, nonrecording gage and crest-stage gage at same site and datum.

REMARKS.--Estimated daily discharges: Dec. 4-9, Jan. 27 to Feb. 2, 4-8, Mar. 2, 3, 26. Records good except for periods of estimated record, which are fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 1948 reached a stage of about 22 ft, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	27	77	81	135	162	776	546	277	15	104	9.0
2	3.4	36	67	228	110	130	591	367	200	17	45	7.1
3	4.5	99	59	724	98	110	456	284	175	63	30	6.5
4	6.8	110	51	513	84	96	341	669	163	64	22	6.4
5	99	79	46	354	72	90	254	1070	141	35	17	5.7
6	351	59	41	257	65	401	192	4600	95	25	13	5.2
7	101	62	37	216	58	1160	153	1310	847	18	11	3.8
8	54	85	34	171	54	793	126	811	395	16	12	30
9	36	92	31	148	106	414	106	870	366	14	21	49
10	27	73	29	126	104	277	91	504	349	13	19	22
11	20	138	26	108	94	231	80	371	500	11	16	14
12	16	303	24	107	83	192	72	283	1020	12	13	10
13	13	208	24	100	73	186	67	196	1010	8.8	10	8.1
14	11	223	27	96	68	314	66	147	456	8.3	8.4	5.8
15	12	178	31	159	67	347	64	658	286	137	8.1	4.0
16	13	132	430	260	60	426	82	690	189	149	7.3	11
17	15	102	393	1470	54	384	67	346	134	58	7.0	209
18	11	84	665	999	49	750	55	229	104	39	16	93
19	8.9	69	1690	2090	49	686	50	165	93	34	12	48
20	8.2	58	1220	869	386	613	129	125	77	29	9.4	32
21	8.5	51	610	524	550	621	276	98	61	35	7.1	25
22	8.2	44	415	373	452	596	141	82	51	39	5.1	22
23	11	88	293	346	421	491	320	68	72	23	4.0	28
24	11	397	214	3410	316	375	404	57	59	17	5.1	20
25	9.8	314	164	1340	230	262	275	52	46	15	5.2	14
26	8.2	215	131	654	194	240	214	75	37	14	5.5	11
27	15	162	110	420	239	231	158	462	30	12	6.3	10
28	75	132	93	320	387	202	117	1270	25	9.0	29	849
29	68	106	79	240	210	353	138	2290	21	8.7	39	898
30	46	89	72	200	---	322	831	819	18	8.7	19	280
31	34	---	69	160	---	303	---	437	---	65	13	---
TOTAL	1109.1	3815	7252	17063	4868	11758	6692	19951	7297	1012.5	539.5	2736.6
MEAN	35.8	127	234	550	168	379	223	644	243	32.7	17.4	91.2
MAX	351	397	1690	3410	550	1160	831	4600	1020	149	104	898
MIN	3.4	27	24	81	49	90	50	52	18	8.3	4.0	3.8
CFSM	.30	1.07	1.97	4.63	1.41	3.19	1.87	5.41	2.04	.27	.15	.77
IN.	.35	1.19	2.27	5.33	1.52	3.68	2.09	6.24	2.28	.32	.17	.86

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1996, BY WATER YEAR (WY)

MEAN	34.2	89.0	254	292	342	385	235	192	92.9	55.5	48.6	45.5
MAX	312	347	1028	798	1169	995	746	881	502	371	375	702
(WY)	1976	1980	1979	1951	1989	1964	1972	1983	1974	1991	1974	1979
MIN	.000	.000	.28	11.5	24.8	39.8	45.6	14.3	4.41	1.59	.41	.000
(WY)	1954	1954	1954	1981	1954	1983	1955	1976	1954	1951	1983	1953

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1950 - 1996

ANNUAL TOTAL	72406.0	84093.7	171
ANNUAL MEAN	198	230	319
HIGHEST ANNUAL MEAN			28.0
LOWEST ANNUAL MEAN			1979
HIGHEST DAILY MEAN	6040	May 18	7860
LOWEST DAILY MEAN	2.1	Sep 11	.00
ANNUAL SEVEN-DAY MINIMUM	2.8	Sep 9	.00
INSTANTANEOUS PEAK FLOW			8730
INSTANTANEOUS PEAK STAGE			20.22
ANNUAL RUNOFF (CFSM)	1.67	1.93	1.44
ANNUAL RUNOFF (INCHES)	22.63	26.29	19.53
10 PERCENT EXCEEDS	422	600	422
50 PERCENT EXCEEDS	68	89	48
90 PERCENT EXCEEDS	7.3	9.7	3.3

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. Elevation of gage is 803.40 ft above sea level, from topographic map. Prior to Oct. 1, 1994 at datum 3.40 ft. lower.

REMARKS.--Estimated daily discharges: Dec. 4-9, 21--28, Jan. 1-5, 9, 27-29, Feb. 1-8, and March 3. Records good except for periods of estimated record, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	38	89	110	185	225	1050	702	315	24	139	13
2	7.4	46	78	350	160	184	754	464	237	27	59	10
3	9.0	141	70	800	140	150	555	374	215	104	35	8.2
4	18	137	60	480	122	130	421	913	196	84	26	8.1
5	215	100	53	350	112	122	326	1390	179	43	21	8.9
6	400	77	48	296	100	366	252	4790	125	30	17	9.0
7	145	89	43	252	92	1200	208	1690	1100	25	14	8.8
8	74	104	38	212	86	928	175	1000	529	22	15	10
9	50	112	34	180	140	601	149	1180	447	20	23	57
10	35	89	33	154	143	459	129	634	422	18	22	26
11	29	162	29	138	115	376	111	467	657	14	19	17
12	25	295	27	134	97	318	99	364	1000	15	16	16
13	21	244	28	125	85	265	91	261	1050	15	13	14
14	21	265	30	121	81	225	95	202	512	13	12	11
15	22	216	37	186	80	308	97	899	333	131	12	7.9
16	18	163	404	305	72	380	126	941	229	200	11	35
17	21	128	417	1520	63	447	103	444	171	73	9.7	290
18	19	102	756	1140	57	439	79	302	136	46	15	149
19	16	84	1850	2260	59	612	69	220	119	37	15	74
20	15	71	1260	986	493	916	203	169	98	32	13	51
21	17	62	600	581	645	778	349	136	75	49	10	38
22	15	54	350	418	523	713	198	109	61	68	9.1	47
23	15	107	270	421	490	751	483	89	97	32	7.9	37
24	18	389	210	3820	372	657	543	75	82	23	8.2	35
25	18	320	170	1620	278	528	380	66	60	19	8.3	25
26	17	229	140	764	237	398	305	109	45	18	7.3	20
27	42	179	120	500	276	297	232	472	38	15	9.7	25
28	98	151	100	390	524	260	176	1310	29	13	18	1620
29	98	122	94	320	300	470	214	2120	25	12	49	1070
30	65	102	80	292	---	411	1110	948	23	13	25	335
31	49	---	83	231	---	364	---	470	---	93	17	---
TOTAL	1619.9	4378	7601	19456	6127	14278	9082	23310	8605	1328	676.2	4075.9
MEAN	52.3	146	245	628	211	461	303	752	287	42.8	21.8	136
MAX	400	389	1850	3820	645	1200	1110	4790	1100	200	139	1620
MIN	7.4	38	27	110	57	122	69	66	23	12	7.3	7.9
CFSM	.36	.99	1.67	4.27	1.44	3.13	2.06	5.12	1.95	.29	.15	.92
IN.	.41	1.11	1.92	4.92	1.55	3.61	2.30	5.90	2.18	.34	.17	1.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1996, BY WATER YEAR (WY)

MEAN	45.4	193	226	503	363	518	267	480	173	29.6	73.7	44.7
MAX	71.2	398	267	631	540	664	408	786	287	42.8	156	136
(WY)	1994	1994	1994	1994	1994	1994	1994	1995	1996	1996	1993	1996
MIN	12.8	34.9	185	333	211	387	132	65.5	19.6	15.4	21.8	8.52
(WY)	1995	1995	1995	1993	1996	1995	1995	1993	1994	1995	1996	1994

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1993 - 1996	
ANNUAL TOTAL	82618.3		100537.0			
ANNUAL MEAN	226		275		254	
HIGHEST ANNUAL MEAN					280	
LOWEST ANNUAL MEAN					209	
HIGHEST DAILY MEAN	6030	May 18	4790	May 6	6030	May 18 1995
LOWEST DAILY MEAN	4.8	Sep 11	7.3	Aug 26	4.5	Sep 22 1994
ANNUAL SEVEN-DAY MINIMUM	5.4	Sep 7	8.6	Aug 21	5.0	Jul 9 1994
INSTANTANEOUS PEAK FLOW			5190	May 5	6880	May 18 1995
INSTANTANEOUS PEAK STAGE			9.45	May 5	10.81	May 18 1995
ANNUAL RUNOFF (CFSM)	1.54		1.87		1.73	
ANNUAL RUNOFF (INCHES)	20.91		25.44		23.52	
10 PERCENT EXCEEDS	485		705		609	
50 PERCENT EXCEEDS	84		113		99	
90 PERCENT EXCEEDS	9.3		15		9.7	

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. Elevation of gage is 801.00 ft above sea level, from topographic map. Prior to Oct. 1, 1995 at datum 1.0 ft. lower.

REMARKS.--Estimated daily discharges: Oct. 17-18, Dec. 16-17, Dec. 21-31, Jan. 4-12, 30 to Feb. 6, March 1, 2, Sept. 11-13. Records good 10 cfs to 200 cfs. Records poor above 200 ft³/s, below 10 ft³/s, and for periods of estimated record. Flow regulated by Georgetown Water Plant.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.32	5.2	14	22	38	29	84	63	49	7.1	24	5.6
2	.21	14	12	37	35	26	75	56	48	9.1	16	4.4
3	1.0	23	11	54	33	25	65	52	44	24	11	3.5
4	2.8	14	9.5	46	31	23	59	68	42	13	8.8	7.0
5	44	11	8.9	41	29	22	55	141	36	9.4	5.5	2.4
6	42	8.0	8.8	37	28	54	51	141	33	7.8	8.8	1.9
7	22	17	7.3	34	27	71	46	83	88	6.8	10	7.6
8	17	12	6.3	31	28	65	41	76	61	6.3	12	12
9	13	9.6	6.1	29	30	58	38	71	56	5.4	16	5.5
10	7.9	8.4	5.1	28	25	53	33	61	53	4.3	9.0	3.8
11	6.1	26	4.4	26	21	49	33	55	75	3.8	6.6	2.7
12	4.9	29	4.2	25	18	47	32	50	73	3.2	4.8	2.1
13	3.9	26	4.1	25	16	44	31	44	64	3.3	4.8	1.7
14	5.9	26	4.2	26	16	42	29	39	56	6.9	4.5	1.3
15	5.7	24	9.6	36	15	51	33	49	51	38	2.9	1.3
16	3.8	24	19	44	14	51	29	48	44	21	19	31
17	3.1	22	37	75	13	54	21	41	38	14	15	38
18	2.6	18	66	73	13	52	17	37	36	12	9.3	20
19	2.2	15	93	92	14	60	15	34	35	10	5.9	14
20	3.3	12	77	68	43	66	35	31	30	14	3.7	10
21	3.7	12	58	57	45	64	31	29	28	9.8	5.9	10
22	3.0	11	45	51	46	63	24	28	26	8.8	5.5	14
23	2.0	25	35	56	45	64	51	25	27	6.4	3.4	8.8
24	2.3	42	29	124	42	62	52	23	25	5.0	5.3	6.8
25	1.7	35	23	77	39	59	45	19	20	4.9	4.3	5.5
26	1.6	28	19	64	36	54	43	33	15	3.7	2.4	4.8
27	19	25	16	57	36	50	35	68	12	3.1	15	7.5
28	14	22	14	52	43	49	30	75	10	3.2	25	61
29	8.3	19	12	48	35	55	35	78	7.9	3.2	14	49
30	5.2	17	10	44	---	53	72	62	8.1	6.6	8.5	37
31	4.1	---	15	41	---	54	---	54	---	39	7.0	---
TOTAL	256.63	580.2	683.5	1520	854	1569	1240	1734	1191.0	313.1	293.9	380.2
MEAN	8.28	19.3	22.0	49.0	29.4	50.6	41.3	55.9	39.7	10.1	9.48	12.7
MAX	44	42	93	124	46	71	84	141	88	39	25	61
MIN	.21	5.2	4.1	22	13	22	15	19	7.9	3.1	2.4	1.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1996, BY WATER YEAR (WY)

MEAN	6.71	20.5	28.5	43.0	37.3	47.6	35.5	40.2	24.7	6.12	10.1	5.92
MAX	9.01	35.9	38.2	49.0	52.5	52.7	47.5	55.9	39.7	10.1	13.0	12.7
(WY)	1994	1994	1994	1996	1994	1994	1994	1996	1996	1996	1993	1996
MIN	2.85	6.15	22.0	37.2	29.4	36.2	17.5	15.0	3.04	1.21	8.00	2.54
(WY)	1995	1995	1996	1993	1996	1995	1995	1993	1994	1995	1994	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1993 - 1996	
ANNUAL TOTAL	8216.09		10615.53			
ANNUAL MEAN	22.5		29.0		26.1	
HIGHEST ANNUAL MEAN					29.0	
LOWEST ANNUAL MEAN					21.2	
HIGHEST DAILY MEAN	232	May 18	141	May 5	232	May 18 1995
LOWEST DAILY MEAN	.00	Jul 20	.21	Oct 2	.00	Oct 15 1993
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 5	2.5	Oct 20	.00	Sep 5 1995
INSTANTANEOUS PEAK FLOW			479		479	
INSTANTANEOUS PEAK STAGE			5.13		5.13	
10 PERCENT EXCEEDS	52		61	May 5	57	May 5 1996
50 PERCENT EXCEEDS	15		25		21	
90 PERCENT EXCEEDS	.36		4.0		1.8	

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 sea level, from topographic map.

REMARKS.--Estimated daily discharges: Jan. 7-15 and Aug. 26 to Sept. 15. Records fair except for periods of estimated record, which are poor. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	51	82	119	163	120	443	447	278	47	215	43
2	34	102	71	186	143	141	472	327	235	122	129	42
3	23	160	68	404	122	78	383	296	205	106	92	40
4	74	111	69	323	113	106	308	324	218	72	73	41
5	362	85	59	264	106	171	263	684	148	46	66	35
6	324	73	62	216	100	412	215	4090	123	46	53	32
7	147	118	56	190	94	664	183	1150	352	56	58	36
8	94	123	53	170	97	505	159	663	276	53	56	45
9	74	97	37	150	129	385	143	500	314	46	67	44
10	63	84	43	130	113	363	128	372	286	43	48	58
11	52	181	54	115	101	333	117	310	517	41	40	52
12	48	246	45	110	95	260	108	259	1140	36	51	41
13	41	184	45	105	90	238	98	206	849	36	48	48
14	51	186	45	100	87	239	99	173	479	57	49	42
15	60	150	43	140	89	238	106	282	304	351	40	30
16	47	122	243	243	61	221	140	287	219	128	67	225
17	43	106	196	792	62	300	99	201	172	91	71	221
18	39	92	385	634	77	294	89	155	151	102	153	116
19	36	81	960	1340	101	300	84	127	125	139	66	87
20	41	73	837	703	326	308	251	112	104	295	55	56
21	59	70	478	466	336	302	235	100	90	115	44	40
22	45	62	336	349	338	298	169	90	80	88	45	78
23	42	115	254	302	342	337	362	77	81	75	37	64
24	36	310	204	1940	221	399	392	73	71	65	36	44
25	44	200	175	1020	192	372	307	69	65	57	45	37
26	43	158	147	591	232	230	269	154	57	56	43	38
27	126	132	131	442	237	221	211	457	44	32	50	37
28	136	119	117	328	180	218	173	722	49	39	79	469
29	87	101	107	269	93	291	169	1890	45	65	76	441
30	66	91	98	225	---	253	666	630	49	56	71	439
31	57	---	98	190	---	229	---	394	---	544	60	---
TOTAL	2419	3783	5598	12556	4440	8826	6841	15621	7126	3105	2083	3021
MEAN	78.0	126	181	405	153	285	228	504	238	100	67.2	101
MAX	362	310	960	1940	342	664	666	4090	1140	544	215	469
MIN	23	51	37	100	61	78	84	69	44	32	36	30
CFSM	.74	1.20	1.72	3.86	1.46	2.71	2.17	4.80	2.26	.95	.64	.96
IN.	.86	1.34	1.98	4.45	1.57	3.13	2.42	5.53	2.52	1.10	.74	1.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1996, BY WATER YEAR (WY)

MEAN	68.3	141	237	245	291	265	190	233	148	88.1	72.8	59.3
MAX	151	307	673	405	1030	492	366	718	337	240	255	108
(WY)	1991	1994	1991	1996	1989	1994	1984	1983	1992	1992	1992	1992
MIN	31.2	51.9	86.5	50.4	114	60.1	60.9	58.9	39.5	35.8	32.5	27.7
(WY)	1995	1995	1990	1986	1993	1983	1986	1988	1988	1983	1983	1987

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1982 - 1996

ANNUAL TOTAL	68027	75419	
ANNUAL MEAN	186	206	169
HIGHEST ANNUAL MEAN			257
LOWEST ANNUAL MEAN			103
HIGHEST DAILY MEAN	3660	May 18	7000
LOWEST DAILY MEAN	16	Jul 21	3.1
ANNUAL SEVEN-DAY MINIMUM	21	Sep 4	18
INSTANTANEOUS PEAK FLOW			7270
INSTANTANEOUS PEAK FLOW			19.38
INSTANTANEOUS LOW FLOW			21.28
ANNUAL RUNOFF (CFSM)	1.78	1.96	.00
ANNUAL RUNOFF (INCHES)	24.10	26.72	1.61
10 PERCENT EXCEEDS	363	406	352
50 PERCENT EXCEEDS	101	115	90
90 PERCENT EXCEEDS	33	43	33

KENTUCKY RIVER BASIN

03289500 ELKHORN CREEK NEAR FRANKFORT, KY

LOCATION.--Lat 38°16'07", long 84°48'53", Franklin County, Hydrologic Unit 05100205, on right bank, 50 ft downstream from bridge on State Highway 1900, 4.2 mi northeast of city limits of Frankfort, 7.4 mi downstream from confluence of North and South Elkhorn Creeks, and at mile 10.4.

DRAINAGE AREA.--473 mi² of which about 70 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--May 1915 to December 1920 (gage heights only, October 1918 to December 1920), December 1939 to August 1984, October 1987 to current year. Published as "at Forks of Elkhorn" 1915-20.

REVISED RECORDS.--WSP 1555: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is approximately 540.20 ft above sea level. See WDR KY-90-1 for history of changes prior to Aug. 31, 1970.

REMARKS.--Estimated daily discharges: Dec. 11-15, Jan. 13 to Feb. 16, and May 1-5. Water-discharge records good except for periods of estimated record, which are fair. City of Lexington diverts water from Hickman Creek in Kentucky River Basin for municipal water supply; return flow of which enters tributary above station.

EXTREMES FOR OUTSIDE PERIOD OF RECORD.--Flood of Aug. 2, 1932, reached a stage of about 17.5 ft, from information by local resident. Flood of January 1937 was about 0.3 ft lower.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	149	293	330	620	883	3420	2000	1300	134	646	85
2	37	136	264	456	540	716	3430	1500	955	138	374	83
3	49	233	235	1900	470	595	2360	1200	817	152	255	76
4	54	391	219	1990	410	499	1680	3000	673	320	200	78
5	144	321	210	1400	360	450	1280	6000	613	221	166	69
6	1070	258	191	1070	320	775	998	12000	476	174	138	63
7	717	228	181	895	280	3000	774	7870	2200	121	124	68
8	352	264	167	743	260	3510	629	3870	2170	115	169	91
9	234	278	157	599	430	2240	521	3910	1580	123	156	86
10	186	258	144	525	410	1580	443	2410	1740	107	146	110
11	152	287	140	466	380	1240	391	1730	1910	98	120	102
12	122	677	135	448	350	1030	353	1380	2900	85	109	79
13	106	735	130	420	310	859	328	1060	3900	74	111	67
14	92	693	125	400	280	714	330	815	2210	67	100	67
15	88	664	120	600	260	789	321	1270	1450	255	94	50
16	108	528	522	1500	240	1120	386	2920	1040	632	87	86
17	99	426	1410	5600	232	1200	369	1440	775	383	134	734
18	87	357	2120	4400	218	1350	303	990	637	246	195	607
19	82	304	5690	8000	214	1820	272	733	577	229	142	320
20	82	265	5240	5000	988	3170	599	572	488	431	111	220
21	75	233	2960	2700	2060	2900	1110	471	402	335	98	176
22	92	213	1870	1700	1710	2490	768	404	324	419	85	142
23	87	214	1320	1300	1640	2450	1720	356	300	295	91	169
24	83	582	979	11000	1280	2230	2480	317	307	215	96	152
25	74	935	759	5000	972	1860	1680	290	298	163	81	121
26	75	676	603	2500	803	1480	1360	313	245	137	78	103
27	105	527	510	1800	718	1110	1090	711	205	121	89	124
28	223	446	437	1400	1470	941	825	3240	184	96	154	6300
29	275	384	381	1100	1250	1400	807	4400	155	100	152	4130
30	239	329	337	900	---	1710	2800	4410	141	134	142	1760
31	184	---	315	740	---	1710	---	1990	---	819	113	---
TOTAL	5416	11991	28164	66882	19475	47821	33827	73572	30972	6939	4756	16318
MEAN	175	400	909	2157	672	1543	1128	2373	1032	224	153	544
MAX	1070	935	5690	11000	2060	3510	3430	12000	3900	819	646	6300
MIN	37	136	120	330	214	450	272	290	141	67	78	50
CFSM	.37	.85	1.92	4.56	1.42	3.26	2.38	5.02	2.18	.47	.32	1.15
IN.	.43	.94	2.22	5.26	1.53	3.76	2.66	5.79	2.44	.55	.37	1.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1996, BY WATER YEAR (WY)

MEAN	129	326	867	1139	1293	1384	930	670	380	237	177	158
MAX	1012	1379	3138	4630	4438	4309	3332	3747	1472	1171	963	2101
(WY)	1976	1943	1979	1950	1989	1964	1948	1983	1974	1960	1992	1979
MIN	5.94	12.1	17.3	33.8	64.5	145	119	51.8	31.7	15.9	17.7	9.21
(WY)	1944	1944	1944	1944	1944	1941	1918	1941	1944	1944	1948	1953

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1916 - 1996	
ANNUAL TOTAL	251713		346133			
ANNUAL MEAN	690		946		638	
HIGHEST ANNUAL MEAN					1091	
LOWEST ANNUAL MEAN					126	
HIGHEST DAILY MEAN	12700	May 19	12000	May 6	25000	Feb 16 1989
LOWEST DAILY MEAN	37	Sep 11	37	Oct 2	.00	Jan 7 1940
ANNUAL SEVEN-DAY MINIMUM	41	Sep 6	75	Sep 1	.00	Jan 7 1940
INSTANTANEOUS PEAK FLOW			14400	May 6	28700	Feb 16 1989
INSTANTANEOUS PEAK STAGE			12.34	May 6	15.26	Feb 16 1989
ANNUAL RUNOFF (CFSM)	1.46		2.00		1.35	
ANNUAL RUNOFF (INCHES)	19.80		27.22		18.34	
10 PERCENT EXCEEDS	1660		2370		1610	
50 PERCENT EXCEEDS	293		391		204	
90 PERCENT EXCEEDS	68		92		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 sea level. Prior to August 29, 1975, nonrecording gage at same site and datum. Auxiliary nonrecording gage at lock 3, 11.0 mi upstream.

REMARKS.--Estimated daily discharges: Jan. 23, 24, and May 22. Records fair except for periods of estimated record and for periods of undefined slope conditions, June 13-15 and July 20-22, which are poor. 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 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	464	1930	2000	2650	13500	11100	29000	14600	36900	1710	3020	798
2	438	1840	1730	3600	11000	12300	27000	13500	19300	895	3210	678
3	654	2370	1670	9420	9390	10900	23400	11900	14300	1860	4890	629
4	687	2590	1640	16300	8110	9120	22300	15200	12000	2270	4980	596
5	2880	2360	1590	19900	7060	8540	18800	17700	11500	1780	3820	732
6	9750	2130	1600	16700	6150	9950	16200	38900	9120	1840	3030	978
7	10600	2350	1880	12300	5760	22200	12400	34300	11700	1950	2620	1030
8	6180	3750	2440	9470	5890	33400	9950	23500	9770	1790	2450	967
9	3850	9290	2320	7550	6940	39100	8630	25100	10600	1720	2550	1110
10	2940	12400	2170	7050	14600	36200	8060	23800	10800	1020	1260	1390
11	2320	10000	2280	6560	29300	25000	6900	27500	21500	1120	817	1560
12	1940	8150	2040	6350	26200	19000	5930	20900	31900	891	924	1480
13	1630	7620	1660	6440	19600	15900	5190	14800	29900	1230	1330	1670
14	1260	8160	1710	6570	15100	14100	4890	13000	27000	1020	1870	1830
15	937	7460	1710	7150	12800	13600	4930	12900	20800	2110	3000	2070
16	836	6010	3820	10100	10300	12600	6010	15100	13900	9530	3640	2560
17	652	4950	4020	23300	8920	14200	8870	14200	9690	13000	3590	5440
18	639	3720	9730	33600	8140	16600	11100	12300	7740	6880	3160	7330
19	530	3180	17800	45500	7830	24400	9670	11300	6590	4390	2480	6570
20	1090	2870	19900	49500	13000	27600	11900	9380	5270	13700	2380	4900
21	926	2380	18000	43200	11300	26400	12600	7880	4320	28200	2180	3690
22	827	2150	18400	36200	10800	23300	15500	6250	3620	15900	1930	2990
23	911	2280	15300	42300	10700	22200	22500	4630	2920	6120	1920	1920
24	947	2930	10800	48400	9290	19900	21200	3960	2730	3510	1770	2150
25	842	3740	7790	54400	8120	18300	17600	5270	2670	2830	1280	2180
26	882	3430	5580	38600	6820	18300	14100	5560	2180	2680	897	1360
27	1050	2900	4800	32100	6790	16500	12000	11800	2140	2510	828	1330
28	2450	2490	3980	26000	9240	13700	10300	24500	1980	2360	845	16200
29	1980	2260	3420	23000	10200	15900	11400	35300	1950	2230	1360	18600
30	1780	2100	3010	19600	---	17100	14500	51500	1950	2200	1630	10900
31	1870	---	2740	16500	---	21600	---	48400	---	2430	1130	---
TOTAL	64742	129790	177530	680310	322850	589010	402830	574930	346740	141676	70791	105638
MEAN	2088	4326	5727	21950	11130	19000	13430	18550	11560	4570	2284	3521
MAX	10600	12400	19900	54400	29300	39100	29000	51500	36900	28200	4980	18600
MIN	438	1840	1590	2650	5760	8540	4890	3960	1950	891	817	596

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1996, BY WATER YEAR (WY)

MEAN	2390	5045	11220	13530	15220	18740	14200	10410	5083	2641	2452	2265
MAX	14120	13960	39510	37850	40170	40410	41540	34340	16050	7268	8589	14740
(WY)	1990	1987	1979	1974	1989	1975	1972	1983	1989	1992	1992	1979
MIN	450	603	668	770	4073	4423	2074	1518	508	654	445	385
(WY)	1970	1988	1966	1981	1968	1983	1986	1976	1988	1970	1986	1984

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1961 - 1996	
ANNUAL TOTAL	3031290		3606837			
ANNUAL MEAN	8305		9855		8570	
HIGHEST ANNUAL MEAN					14030	
LOWEST ANNUAL MEAN					3891	
HIGHEST DAILY MEAN	84900	May 20	54400	Jan 25	121000	Dec 11 1978
LOWEST DAILY MEAN	149	Sep 10	438	Oct 2	131	Oct 4 1981
ANNUAL SEVEN-DAY MINIMUM	166	Sep 8	777	Sep 1	166	Sep 8 1995
INSTANTANEOUS PEAK FLOW			59400	Jan 25	123000	Jan 26 1937
INSTANTANEOUS PEAK STAGE			30.89	Jan 25	56.85	Jan 24 1937
10 PERCENT EXCEEDS	18500		23600		21800	
50 PERCENT EXCEEDS	3440		6390		3850	
90 PERCENT EXCEEDS	653		1130		650	

KENTUCKY RIVER BASIN

03291500 EAGLE CREEK AT GLENCOE, KY

LOCATION.--Lat 38°42'18", long 84°49'26", Owen County, Hydrologic Unit 05100205, on left bank 600 ft upstream from bridge on U.S. Highway 127, 0.6 mi south of Glencoe, 5.8 mi downstream from Tenmile Creek, and at mile 21.6.

DRAINAGE AREA.--437 mi².

PERIOD OF RECORD.--April 1915 - September 1918, October 1918 - December 1920 (gage heights only), May 1928 - September 1931, June 1938 - September 1977, December 1988 to current year. Monthly discharge only for May 1915, June 1938, published in WSP 1305.

REVISED RECORDS.--WSP 1275: 1916-17, 1920(M). WSP 1555: Drainage area. WSP 1908: 1939-40(M), 1943(M), 1945(M), 1948(P), 1950(M), 1956-57(P), 1960(M).

GAGE.--Water-stage recorder. Datum of gage is 508.52 ft above sea level. Prior Oct. 1, 1950, nonrecording gages at same site and datum. Oct. 1, 1950 to Oct. 19, 1960, nonrecording gage 600 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Oct. 1-5, Dec. 6-15, 24-28, Jan. 8-14, Feb. 3-8, May 28 to July 3, July 19 to Aug. 25, Sept. 10-16. Records good, except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996--DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	98	47	105	213	587	11200	2190	950	89	30	1.1
2	1.6	80	40	332	167	399	3940	947	700	75	19	1.1
3	1.8	61	33	2470	160	300	1210	3410	560	62	12	1.1
4	2.2	56	28	1120	145	222	745	7740	470	48	7.5	1.1
5	30	88	25	451	130	204	569	2440	385	39	5.0	1.2
6	1370	103	24	272	115	912	448	6200	310	34	3.6	1.1
7	597	104	20	210	100	1120	371	2160	750	36	3.4	1.1
8	226	79	18	190	95	935	319	3540	800	35	3.3	1.9
9	126	66	16	180	260	553	275	5790	700	35	3.0	1.7
10	82	57	15	175	268	381	237	1630	800	36	2.8	2.0
11	56	143	14	170	283	344	210	15000	900	35	2.7	1.8
12	37	1320	13	160	234	349	190	2550	1250	29	2.6	1.6
13	27	567	12	150	172	343	187	1080	1500	30	2.5	1.5
14	21	265	11	140	174	310	324	686	1000	28	2.4	1.4
15	17	323	10	533	148	706	397	10300	750	96	2.3	1.3
16	16	258	482	890	133	1600	708	12800	600	164	2.9	1.3
17	14	164	1010	5210	118	680	577	1800	460	176	3.9	2.5
18	14	122	4370	2780	111	494	330	869	380	161	4.5	4.2
19	19	95	8920	7550	109	4290	256	620	320	150	4.0	128
20	20	81	4430	1990	2980	5250	2270	474	290	160	3.5	130
21	18	68	962	640	2450	2210	2050	374	250	150	3.1	85
22	14	58	471	402	814	1460	661	324	220	155	2.8	56
23	8.2	52	301	2470	671	1710	5130	285	200	110	2.7	38
24	4.9	45	210	12400	600	1600	3600	250	210	80	2.7	30
25	3.4	144	180	4210	366	1160	1060	231	200	62	2.4	24
26	4.9	194	150	845	461	1040	873	296	185	48	2.2	52
27	12	118	135	596	1060	648	756	3500	170	35	1.6	24
28	27	87	110	491	3770	493	633	4000	145	28	1.7	24
29	150	70	97	432	1280	2170	6670	3500	135	28	1.5	24
30	223	57	90	327	---	1640	4760	2400	120	38	1.6	25
31	135	---	90	258	---	1280	---	1500	---	50	1.6	---
TOTAL	3279.8	5023	22334	48149	17587	35390	50956	98886	15710	2302	144.8	669.0
MEAN	106	167	720	1553	606	1142	1699	3190	524	74.3	4.67	22.3
MAX	1370	1320	8920	12400	3770	5250	11200	15000	1500	176	30	130
MIN	1.6	45	10	105	95	204	187	231	120	28	1.5	1.1
CFSM	.24	.38	1.65	3.55	1.39	2.61	3.89	7.30	1.20	.17	.01	.05
IN.	.28	.43	1.90	4.10	1.50	3.01	4.34	8.42	1.34	.20	.01	.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1996, BY WATER YEAR (WY)

MEAN	108	349	642	958	1097	1294	944	673	413	240	127	108
MAX	1005	1641	1874	3170	3295	5197	2909	3190	1428	1016	755	1355
(WY)	1976	1973	1952	1950	1956	1964	1948	1996	1928	1957	1977	1965
MIN	.000	.000	.000	2.85	44.6	120	131	25.5	1.56	.14	.000	.000
(WY)	1931	1931	1931	1931	1954	1941	1976	1930	1930	1930	1930	1930

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1916 - 1996
ANNUAL TOTAL	185692.98	300430.6	
ANNUAL MEAN	509	821	575
HIGHEST ANNUAL MEAN			1059
LOWEST ANNUAL MEAN			117
HIGHEST DAILY MEAN	15300 May 25	15000 May 11	39300 Mar 10 1964
LOWEST DAILY MEAN	.45 Sep 5	1.1 Sep 1	.00 Jul 15 1930
ANNUAL SEVEN-DAY MINIMUM	.58 Sep 3	1.1 Sep 1	.00 Jul 15 1930
INSTANTANEOUS PEAK FLOW		26200 May 11	58200 Mar 10 1964
INSTANTANEOUS PEAK STAGE		19.38 May 11	26.05 Mar 10 1964
INSTANTANEOUS LOW FLOW		1.1 Sep 1	1.1 Sep 1 1996
ANNUAL RUNOFF (CFSM)	1.16	1.88	1.32
ANNUAL RUNOFF (INCHES)	15.81	25.57	17.88
10 PERCENT EXCEEDS	1110	2230	1300
50 PERCENT EXCEEDS	112	170	97
90 PERCENT EXCEEDS	4.5	2.8	1.2

HARRODS CREEK BASIN

03292473 HARRODS CREEK NEAR PROSPECT, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°20'06", long 85°36'09", Jefferson County, Hydrologic Unit 05140101, at site off Hunting Creek Drive, 0.9 mi above Wolf Creek, and at mile 3.0.

DRAINAGE AREA.--92.1 mi².

PERIOD OF RECORD.--March 1988 to current year.

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT					
25...	0850	684	7.7	10.5	6.8
NOV					
09...	0850	724	7.7	6.0	11.0
DEC					
14...	0845	682	--	1.0	13.9
FEB					
08...	0855	646	7.7	0.0	13.2
MAR					
14...	0850	524	8.3	8.0	10.0
APR					
11...	0855	476	8.3	8.5	10.1
JUL					
18...	0910	462	7.8	24.0	6.6

GOOSE CREEK BASIN

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

WATER-QUALITY RECORDS

LOCATION.--Lat 38°16'33", long 85°36'22", Jefferson County, Hydrologic Unit 05140101, at bridge on Old Westport Road and at mile 5.5.

DRAINAGE AREA.--6.0 mi².

PERIOD OF RECORD.--February 1988 to current year.

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 25...	1135	1.7	632	7.7	10.5	9.0
NOV 21...	0825	2.6	409	7.8	6.5	10.4
DEC 14...	1240	1.5	529	7.9	9.5	12.6
FEB 21...	0815	13	549	7.9	8.0	10.0
MAR 14...	1210	5.4	506	8.7	14.0	13.6
APR 11...	1245	6.2	474	8.8	15.5	16.4
MAY 29...	0855	37	403	7.7	18.0	8.5
JUL 18...	1210	3.2	495	8.2	23.5	9.7
SEP 05...	1335	0.56	929	7.5	23.0	6.5

GOOSE CREEK BASIN

03292475 GOOSE CREEK AT U.S. HWY 42 NEAR GLENVIEW ACRES, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°18'12", long 85°37'41", Jefferson County, Hydrologic Unit 05140101, at culvert on U.S. Highway 42, 1.7 mi above Little Goose Creek, and at mile 2.1.

DRAINAGE AREA.--10.1 mi².

PERIOD OF RECORD.--February 1988 to current year.

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 25...	1030	--	631	8.0	9.0	8.9
NOV 09...	1220	4.2	445	8.4	6.0	13.0
DEC 14...	1115	2.4	382	8.3	3.0	14.9
FEB 08...	1210	6.6	567	8.2	0.0	14.3
MAR 14...	1050	18	529	8.7	11.0	14.6
APR 11...	1125	10	498	8.8	10.0	16.2
29...	0940	131	321	7.4	13.0	--
29...	1600	158	309	7.6	15.5	--
MAY 09...	1100	32	471	8.0	16.0	10.2
JUL 18...	1015	7.5	484	8.1	22.5	8.2
SEP 05...	1120	0.83	520	8.1	21.0	8.7

GOOSE CREEK BASIN

03292480 LITTLE GOOSE CREEK NEAR HARRODS CREEK, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°18'45", long 85°37'33", Jefferson County, Hydrologic Unit 05140101, at culvert on U.S. Highway 42 and at mile 1.8.

DRAINAGE AREA.--5.8 mi².

PERIOD OF RECORD.--February 1988 to current year.

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 25...	0940	2.2	626	8.0	8.5	9.8
NOV 09...	1015	3.1	639	8.3	5.0	12.1
DEC 14...	1000	1.8	431	8.0	4.0	12.5
FEB 08...	1030	4.5	594	7.9	1.0	14.5
MAR 14...	0945	5.6	590	8.4	10.0	14.1
APR 11...	1000	6.1	552	8.3	8.5	14.1
29...	1040	127	324	7.5	14.0	--
MAY 09...	0940	23	503	8.0	15.0	10.2
JUL 18...	1105	4.3	430	8.1	22.0	8.4
SEP 05...	1010	0.29	579	8.0	21.0	7.7

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.

WATER-DISCHARGE RECORDS

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.--Estimated daily discharges: Nov. 13-19 and Dec. 13-18. Water-discharge records good except for estimated daily discharges, which are fair.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	9.2	6.9	12	9.1	16	130	68	26	4.9	12	3.4
2	6.4	38	7.0	62	7.8	14	49	48	42	10	34	3.3
3	63	16	6.9	34	7.0	12	36	35	23	13	10	4.6
4	18	9.0	7.1	19	6.1	10	33	209	16	8.4	5.7	5.2
5	387	8.6	6.9	15	6.0	19	23	95	13	4.6	5.0	5.7
6	45	9.0	6.5	13	5.6	131	19	72	28	3.6	4.4	5.9
7	24	21	5.9	13	5.7	53	16	46	39	6.9	4.7	35
8	18	8.3	6.2	11	7.5	33	14	126	100	15	64	8.4
9	13	7.1	6.1	11	11	25	12	55	68	6.0	14	93
10	4.6	8.2	6.3	12	6.4	20	11	194	73	4.0	5.6	17
11	1.9	22	6.6	12	6.6	17	10	255	126	3.7	4.3	9.0
12	1.6	11	6.5	12	6.8	16	10	103	99	4.0	7.3	6.2
13	1.4	40	6.5	13	6.4	14	38	51	70	14	4.3	5.3
14	1.2	20	7.5	22	6.9	12	17	33	44	33	3.5	4.8
15	1.0	13	22	21	7.3	64	19	128	28	103	3.3	4.7
16	.92	11	69	21	6.6	32	13	50	19	23	3.3	118
17	.91	9.0	14	36	6.2	33	9.8	31	15	20	2.9	25
18	.98	8.0	105	162	6.1	22	9.0	24	22	11	2.9	9.7
19	1.5	7.2	136	124	31	212	17	19	18	10	3.0	7.3
20	15	6.8	41	44	86	148	149	15	11	7.8	23	6.2
21	1.0	6.8	25	29	26	83	30	13	9.2	42	46	36
22	.43	9.1	19	22	28	54	38	11	8.1	20	36	17
23	.60	16	15	201	20	44	114	9.7	7.4	13	11	8.1
24	3.7	6.9	13	272	17	36	50	8.8	7.1	8.7	7.7	6.3
25	1.4	6.0	12	67	15	41	34	15	6.8	6.7	4.8	5.4
26	.49	6.6	11	43	17	25	62	233	5.5	6.1	3.8	5.4
27	61	9.3	10	32	48	20	26	128	5.7	5.3	4.1	203
28	26	11	8.9	21	40	35	68	328	5.3	4.7	3.7	159
29	11	7.7	8.5	17	19	45	199	259	4.8	63	3.6	45
30	8.7	7.0	8.3	14	---	23	118	96	4.7	20	3.9	23
31	7.8	---	17	11	---	38	---	43	---	15	3.5	---
TOTAL	732.33	368.8	627.6	1398	472.1	1347	1373.8	2801.5	944.6	510.4	345.3	885.9
MEAN	23.6	12.3	20.2	45.1	16.3	43.5	45.8	90.4	31.5	16.5	11.1	29.5
MAX	387	40	136	272	86	212	199	328	126	103	64	203
MIN	.43	6.0	5.9	11	5.6	10	9.0	8.8	4.7	3.6	2.9	3.3
CFSM	1.37	.71	1.18	2.62	.95	2.53	2.66	5.25	1.83	.96	.65	1.72
IN.	1.58	.80	1.36	3.02	1.02	2.91	2.97	6.06	2.04	1.10	.75	1.92

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1996, BY WATER YEAR (WY)

MEAN	7.42	13.7	22.6	31.2	40.0	41.4	32.6	28.8	17.8	15.6	10.2	7.67
MAX	46.7	53.9	73.6	125	107	126	95.2	103	78.3	126	54.7	86.3
(WY)	1978	1974	1979	1950	1989	1945	1948	1961	1950	1973	1974	1979
MIN	.30	.84	1.32	.71	8.52	6.41	3.13	5.51	1.11	.89	.23	.000
(WY)	1953	1953	1977	1940	1953	1983	1976	1962	1959	1956	1952	1953

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR, WATER YEARS 1940 - 1996

ANNUAL TOTAL	7408.23	11807.33	
ANNUAL MEAN	20.3	32.3	22.5
HIGHEST ANNUAL MEAN			41.0 1950
LOWEST ANNUAL MEAN			9.35 1959
HIGHEST DAILY MEAN	679 May 18	387 Oct 5	1760 Jul 22 1973
LOWEST DAILY MEAN	.43 Oct 22	.43 Oct 22	.00 Sep 4 1940
ANNUAL SEVEN-DAY MINIMUM	1.1 Oct 13	1.1 Oct 13	.00 Sep 4 1940
INSTANTANEOUS PEAK FLOW		1660 May 28	4940 Mar 9 1964
INSTANTANEOUS PEAK STAGE		13.62 May 28	17.17 Mar 9 1964
INSTANTANEOUS LOW FLOW			.00 Sep 4 1940
ANNUAL RUNOFF (CFSM)	1.18	1.88	1.31
ANNUAL RUNOFF (INCHES)	16.02	25.54	17.80
10 PERCENT EXCEEDS	39	84	48
50 PERCENT EXCEEDS	7.0	13	7.4
90 PERCENT EXCEEDS	2.8	4.5	.83

BEARGRASS CREEK BASIN

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1988 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1988 to September 1992.

pH: May 1988 to September 1992.

WATER TEMPERATURE: May 1988 to September 1992.

DISSOLVED OXYGEN: May 1988 to September 1992.

REMARKS.--Water-quality samples collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1010 microsiemens, Dec. 28-29, 1989; minimum, 122 microsiemens, May 16, 1990.

pH: Maximum, 9.5 units, Aug. 10, 1988; minimum, 4.9 units, Mar. 6-7, 1991.

WATER TEMPERATURE: Maximum, 33.6°C, Aug. 17, 1988; minimum, 0.0°C, Dec. 21, 29, 30, 1989.

DISSOLVED OXYGEN: Maximum, 16.2 mg/L, Mar. 1, 1989; minimum, 2.1 mg/L, Aug. 9, 1991.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061))	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT						
10...	0845	6.8	747	7.5	15.5	7.2
19...	2315	1.7	853	7.7	16.5	7.7
30...	1145	8.3	692	7.8	13.0	8.0
NOV						
13...	1130	47	288	7.6	7.5	10.2
DEC						
18...	1055	104	298	6.8	8.0	10.5
FEB						
12...	0915	6.3	743	7.7	4.5	10.6
MAR						
18...	0845	21	681	7.7	9.5	8.6
APR						
15...	1115	23	608	7.7	13.0	8.2
MAY						
20...	1105	16	594	7.6	22.5	6.1
JUL						
17...	0900	20	405	7.6	23.5	6.2
SEP						
23...	0930	8.1	503	7.5	18.5	8.0

BEARGRASS CREEK BASIN

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

WATER-QUALITY RECORDS

LOCATION.--Lat 38°14'04", long 85°45'50", Jefferson County, Hydrologic Unit 05140101, at bridge on Winter Avenue, 1.4 mi above Middle Fork Beargrass Creek, and at mile 3.3.

DRAINAGE AREA.--22.6 mi².

PERIOD OF RECORD.--February 1988 to current year.

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT						
10...	1230	7.2	600	8.3	17.5	9.0
19...	0910	2.3	710	7.3	13.5	9.2
30...	0900	9.7	579	7.6	11.5	8.2
NOV						
29...	0820	3.2	742	7.6	6.5	11.4
DEC						
13...	1140	2.0	864	7.5	3.5	16.0
FEB						
15...	0810	7.4	777	7.7	4.5	12.0
MAR						
13...	0945	15	667	8.0	9.0	13.3
APR						
10...	0845	14	677	7.7	8.0	11.0
MAY						
23...	0840	13	628	7.7	20.0	7.1
JUL						
17...	1030	18	441	7.9	25.5	7.7
AUG						
21...	1100	12	262	7.2	26.0	4.5
SEP						
11...	0820	9.6	383	7.4	22.5	5.1
23...	1215	9.3	496	7.4	19.5	8.5

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.

WATER-DISCHARGE RECORDS

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.--Estimated daily discharges: Feb 3-5. Records are good except for period of estimated record which is fair

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.65	6.4	3.7	12	13	22	146	91	28	3.8	4.5	.46
2	.60	18	3.3	54	11	18	67	57	42	31	23	.42
3	45	15	3.1	46	9.0	15	46	41	23	27	9.9	.28
4	18	7.9	3.1	26	8.6	12	40	90	17	8.3	4.8	.45
5	339	6.3	2.9	20	8.3	17	30	56	13	6.2	3.2	22
6	50	5.5	2.9	16	7.9	85	24	50	20	4.7	2.8	35
7	19	26	2.7	14	7.4	45	19	32	37	12	2.1	48
8	12	10	3.0	12	9.8	31	17	166	99	43	10	12
9	7.8	7.9	3.4	11	15	25	14	68	70	9.3	4.9	66
10	5.7	7.1	3.0	11	8.8	21	12	334	124	6.8	2.6	13
11	4.2	50	2.8	11	7.9	18	10	430	140	5.3	4.9	7.6
12	3.3	18	2.8	12	7.3	16	9.9	116	81	4.6	9.5	5.3
13	2.9	32	3.1	12	6.8	14	36	72	47	4.5	3.3	4.7
14	2.3	19	3.9	22	6.6	13	23	50	33	19	2.0	3.9
15	2.1	14	45	27	6.6	73	21	131	31	123	1.5	3.1
16	1.9	12	55	26	6.1	39	16	57	20	16	1.6	118
17	1.8	10	19	48	5.7	36	13	41	15	20	1.6	36
18	1.7	8.7	98	140	5.5	26	11	30	22	12	1.0	15
19	1.6	7.4	146	153	24	184	12	23	19	8.8	.87	10
20	16	6.5	62	56	87	140	134	18	13	8.0	13	7.5
21	4.7	5.8	36	38	33	89	38	14	9.8	44	5.0	33
22	2.7	4.4	25	28	31	68	42	12	8.7	23	3.2	19
23	2.1	12	19	174	23	60	115	10	7.9	10	1.5	10
24	5.7	6.4	15	287	20	50	58	15	39	7.2	1.5	7.5
25	3.8	5.5	12	77	16	51	39	21	14	5.8	1.1	6.1
26	2.7	4.9	10	52	18	34	67	125	9.0	4.6	.90	5.8
27	59	5.0	9.5	40	43	27	31	180	7.1	3.9	1.3	175
28	53	6.1	8.4	28	47	34	77	223	6.0	2.9	1.4	180
29	14	4.2	7.8	23	27	52	250	205	5.3	53	.76	47
30	8.9	3.7	7.7	18	---	28	165	61	4.5	17	.64	26
31	6.8	---	14	15	---	46	---	39	---	6.9	.54	---
TOTAL	698.95	345.7	633.1	1509	520.3	1389	1582.9	2858	1005.3	551.6	124.91	918.11
MEAN	22.5	11.5	20.4	48.7	17.9	44.8	52.8	92.2	33.5	17.8	4.03	30.6
MAX	339	50	146	287	87	184	250	430	140	123	23	180
MIN	.60	3.7	2.7	11	5.5	12	9.9	10	4.5	2.9	.54	.28
CFSM	1.19	.61	1.08	2.58	.95	2.37	2.79	4.88	1.77	.94	.21	1.62
IN.	1.38	.68	1.25	2.97	1.02	2.73	3.12	5.63	1.98	1.09	.25	1.81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1996, BY WATER YEAR (WY)

MEAN	8.46	16.5	26.7	33.5	43.0	49.1	38.9	30.8	19.2	16.6	11.1	9.58
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	.63	.033
(WY)	1954	1954	1954	1981	1954	1954	1954	1954	1954	1954	1953	1953

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1944 - 1996	
ANNUAL TOTAL	7822.93		12136.87			
ANNUAL MEAN	21.4		33.2		25.2	
HIGHEST ANNUAL MEAN					49.2	
LOWEST ANNUAL MEAN					3.76	
HIGHEST DAILY MEAN	595	May 18	430	May 11	2000	Mar 9 1964
LOWEST DAILY MEAN	.60	Oct 2	.28	Sep 3	.00	Aug 27 1952
ANNUAL SEVEN-DAY MINIMUM	.76	Sep 26	.51	Aug 29	.00	Sep 28 1952
INSTANTANEOUS PEAK FLOW			2240	May 10	5200	Apr 2 1970
INSTANTANEOUS PEAK STAGE			6.43	May 10	8.30	Apr 2 1970
INSTANTANEOUS LOW FLOW					.00	Aug 27 1952
ANNUAL RUNOFF (CFSM)	1.13		1.75		1.33	
ANNUAL RUNOFF (INCHES)	15.40		23.89		18.12	
10 PERCENT EXCEEDS	45		78		53	
50 PERCENT EXCEEDS	7.9		14		10	
90 PERCENT EXCEEDS	1.7		2.9		1.9	

BEARGRASS CREEK BASIN

03293000 MIDDLE FORK BEARGRASS CREEK AT LOUISVILLE, KY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1988 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1988 to September 1992.

pH: April 1988 to September 1992.

WATER TEMPERATURE: April 1988 to September 1992.

DISSOLVED OXYGEN: April 1988 to September 1992.

REMARKS.--Water-quality samples collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan

Sewer District personnel.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1050 microsiemens, Dec. 19, 1991; minimum, 74 microsiemens, July 19, 1989.

pH: Maximum, 9.7 units, Apr. 19, 1989; minimum, 5.6 units, July 19, 1989.

WATER TEMPERATURE: Maximum, 35.4°C, August 16, 1988; minimum, 1.8°C, Dec. 10-13, 1988.

DISSOLVED OXYGEN: Maximum, 25.1 mg/L, Apr. 28, 1992; minimum, 0.4 mg/L, Oct. 26, 1991.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM. FLOW INSTAN- TANEOUS (FT ³ /S) (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT						
23...	1005	2.4	616	7.7	11.5	6.5
NOV						
13...	0840	53	326	7.6	8.0	10.6
DEC						
18...	0850	150	287	7.3	--	11.2
FEB						
12...	1015	7.1	775	8.1	5.5	17.3
MAR						
18...	1045	26	689	8.2	10.5	13.5
APR						
15...	0850	14	598	7.9	12.0	8.4
MAY						
20...	0845	18	568	7.7	20.5	7.8
JUL						
10...	0955	6.0	590	7.9	20.0	7.3
24...	0900	6.9	592	8.0	21.5	7.7
SEP						
05...	0730	0.64	627	7.3	22.5	3.9
19...	0835	10	634	7.6	16.5	8.8

BEARGRASS CREEK BASIN

03293200 MIDDLE FORK BEARGRASS CREEK AT BEALS BRANCH ROAD AT LOUISVILLE, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°14'32", long 85°41'57", Jefferson County, Hydrologic Unit 05140101, at bridge on Beals Branch Road and at mile 1.9.

DRAINAGE AREA.--22.7 mi².

PERIOD OF RECORD.--February 1988 to current year.

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S) (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT						
23...	0915	9.8	524	7.3	11.0	6.4
NOV						
29...	0940	2.9	654	8.0	6.0	9.4
DEC						
13...	1000	1.7	832	7.3	1.0	14.4
FEB						
15...	1020	6.7	722	8.0	5.0	10.1
MAR						
13...	1120	18	655	8.1	8.5	11.7
APR						
10...	0955	15	598	8.0	7.0	10.5
MAY						
23...	1015	14	561	7.9	18.5	7.1
JUL						
10...	1140	6.7	498	7.6	21.5	5.5
24...	1040	7.4	555	8.0	22.5	6.8
AUG						
05...	1140	4.3	447	7.6	24.0	4.6
26...	1300	0.90	471	7.3	27.5	2.5
SEP						
05...	0945	0.19	609	7.1	21.5	1.3
19...	1010	12	618	7.7	16.5	7.9

BEARGRASS CREEK BASIN

03293530 MUDDY FORK AT MOCKINGBIRD VALLEY ROAD AT LOUISVILLE, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°16'35", long 85°41'37", Jefferson County, Hydrologic Unit 05140101, at culvert on Mockingbird Valley Road and at mile 1.5.
 DRAINAGE AREA.--6.2 mi².

PERIOD OF RECORD.--February 1988 to current year.

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 19...	0810	0.75	564	7.7	12.5	6.7
NOV 29...	1145	1.5	776	7.9	6.0	11.0
DEC 13...	0840	1.5	739	7.2	1.5	13.7
FEB 15...	1155	2.7	788	7.9	4.0	10.4
MAR 13...	1230	5.2	745	8.1	10.5	12.9
APR 10...	1115	5.4	686	8.1	9.0	13.5
MAY 23...	1205	4.7	714	7.8	18.0	7.5
JUL 24...	1200	0.60	655	8.1	22.0	7.9
SEP 19...	1230	2.4	745	7.8	16.5	9.2

OHIO RIVER MAIN STEM

03294500 OHIO RIVER AT LOUISVILLE, KY

LOCATION.--Lat 38°16'49", long 85°47'57", Jefferson County, Hydrologic Unit 05140101, on left bank at downstream end of lock guide wall in lower pool at McAlpine Locks, at Louisville, 5.3 mi downstream from Beargrass Creek, and at mile 607.3.

DRAINAGE AREA.--91,170 mi², approximately.

PERIOD OF RECORD.--January 1928 to current year. Prior to October 1935 monthly discharge only, published in WSP 1305. Gage-height records collected in this vicinity since 1871 are published in reports of National Weather Service.

REVISED RECORDS.--WSP 893: 1939.

GAGE.--Water-stage recorder. Datum of gage is 373.18 ft above sea level or 374.00 ft Ohio River datum. Prior to Oct. 1, 1939, and Oct. 1, 1943 to Sept. 30, 1946, various combinations of gages near Louisville were used. Oct. 1, 1939 to Sept. 30, 1943, water-stage recorders at Louisville and Kosmosdale, downstream from McAlpine Dam (4 mi and 20.1 mi, respectively), were used to determine discharge. Oct. 1, 1946 to Sept. 30, 1961, nonrecording gage at site 0.3 mi upstream at same datum. Oct. 1, 1952 to Sept. 30, 1970, upper nonrecording gage at dam 43, 25.9 mi downstream used as an auxiliary gage. Since Oct. 1, 1970, auxiliary water-stage recorder at Kosmosdale, 19.8 mi downstream. Datum of auxiliary gage is 372.75 ft above sea level or 373.67 ft above Ohio River Dam.

REMARKS.--Estimated daily discharges: Dec. 19-25, Jan 4-9, and Feb 4-6. Records fair except for those below 20,000 ft³/s and for periods of estimated record, which are poor. Flow regulated by Ohio River system of locks, dams, and reservoirs.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20600	23200	82700	40600	444000	313000	315000	341000	359000	62200	125000	19500
2	17400	30500	84700	56800	399000	347000	368000	309000	298000	46500	164000	18400
3	19300	38400	82300	78000	342000	356000	343000	322000	232000	53600	168000	21300
4	24800	34700	75400	152000	324000	328000	311000	373000	167000	48500	148000	11700
5	40000	35400	70100	194000	225000	284000	273000	410000	145000	48600	88900	17000
6	59900	33700	64100	205000	161000	245000	230000	420000	126000	41100	66600	27000
7	72100	41400	58100	177000	124000	230000	193000	433000	161000	35300	58100	35600
8	66600	32600	61800	127000	113000	258000	171000	442000	201000	51700	49700	76900
9	65700	44800	54400	82200	116000	325000	147000	457000	231000	18800	46300	78500
10	43000	68600	54000	56900	167000	365000	123000	456000	249000	18100	59500	90500
11	33200	71500	47300	86700	241000	359000	113000	477000	252000	38500	49100	46900
12	27100	70500	35500	66000	292000	312000	105000	473000	244000	17300	39200	44000
13	27500	87800	27300	59500	297000	259000	92100	447000	243000	27000	54600	51900
14	20600	103000	33100	68100	260000	214000	82600	417000	214000	28700	68600	46800
15	27200	119000	31600	69000	219000	186000	76500	408000	204000	26200	94000	54200
16	51500	118000	47600	81300	183000	182000	81700	470000	180000	40700	112000	74900
17	34200	113000	66900	154000	150000	204000	119000	480000	152000	50900	94800	76300
18	32400	108000	112000	230000	122000	224000	168000	470000	116000	38100	58200	94900
19	23300	87100	215000	318000	98500	240000	197000	467000	97300	57500	37000	136000
20	21100	80100	303000	404000	98100	310000	222000	463000	115000	93800	43400	153000
21	19100	85700	310000	449000	125000	331000	236000	450000	130000	147000	25000	148000
22	30300	82900	316000	475000	163000	353000	212000	426000	160000	197000	18900	117000
23	22600	85800	302000	493000	208000	386000	196000	374000	168000	225000	39500	87700
24	22800	82600	183000	526000	223000	402000	246000	304000	158000	180000	26800	67700
25	35100	82700	89600	560000	228000	398000	243000	252000	128000	124000	34900	47800
26	24000	80200	73200	573000	223000	345000	224000	227000	104000	111000	37000	51200
27	29800	77400	65200	568000	220000	300000	214000	234000	113000	94100	25100	52200
28	36500	70000	51600	555000	246000	269000	211000	286000	112000	56200	31700	76600
29	18100	56800	51000	536000	273000	243000	288000	336000	80700	43300	24300	118000
30	26800	66300	48100	513000	---	240000	270000	374000	62600	37600	22200	139000
31	29300	---	42700	480000	---	254000	---	381000	---	52000	15900	---
TOTAL	1021900	2111700	3139300	8434100	6284600	9062000	6070900	12179000	5202600	2110300	1926300	2080500
MEAN	32960	70390	101300	272100	216700	292300	202400	392900	173400	68070	62140	69350
MAX	72100	119000	316000	573000	444000	402000	368000	480000	359000	225000	168000	153000
MIN	17400	23200	27300	40600	98100	182000	76500	227000	62600	17300	15900	11700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1996, BY WATER YEAR (WY)

	MEAN	37170	68650	122600	167400	194400	244000	205800	144800	83760	55700	44370	33500
MAX	153500	245900	321300	595800	430400	524300	403300	392900	234400	163400	151300	166600	
(WY)	1980	1986	1973	1937	1939	1945	1948	1996	1981	1958	1958	1979	
MIN	4377	6660	14080	21630	38010	69390	66480	29350	16400	8035	4924	6005	
(WY)	1931	1931	1931	1931	1934	1969	1986	1941	1988	1930	1930	1930	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1929 - 1996	
ANNUAL TOTAL	36666900		59623200			
ANNUAL MEAN	100500		162900		116500	
HIGHEST ANNUAL MEAN					176700	
LOWEST ANNUAL MEAN					57390	
HIGHEST DAILY MEAN	465000	May 21	573000	Jan 26	1110000	Jan 27 1937
LOWEST DAILY MEAN	6200	Sep 10	11700	Sep 4	2100	Aug 12 1930
ANNUAL SEVEN-DAY MINIMUM	12500	Sep 7	18000	Aug 30	3530	Oct 15 1930
INSTANTANEOUS PEAK FLOW					1110000	
INSTANTANEOUS PEAK STAGE			59.36	Jan 26	85.44	Jan 27 1937
10 PERCENT EXCEEDS	237000		376000		281000	
50 PERCENT EXCEEDS	74700		112000		72100	
90 PERCENT EXCEEDS	17400		28300		16800	

MILL CREEK BASIN
03294550 MILL CREEK CUTOFF NEAR LOUISVILLE, KY

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1988 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1988 to September 1992.

pH: May 1988 to September 1992.

WATER TEMPERATURE: May 1988 to September 1992.

DISSOLVED OXYGEN: May 1988 to September 1992.

REMARKS.--Water-quality samples collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,062 microsiemens, June 23, 1988; minimum, 76 microsiemens, Aug. 8, 1992.

pH: Maximum, 11.3 units, July 28, 29, 1989; minimum, 4.8 units, Sept. 12, 1988.

WATER TEMPERATURE: Maximum, 34.4°C, Sept. 21, 1989; minimum, 0.6°C, Dec. 28, 1990, Jan. 15, 16, 1992.

DISSOLVED OXYGEN: Maximum, 24.5 mg/L, Aug. 16, 1989; minimum, 0.3 mg/L, July 5, 23, 1991.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 17...	1200	0.80	658	9.1	14.0	14.8
NOV 07...	1200	10	215	7.4	10.0	9.1
DEC 12...	1150	1.0	950	7.4	1.5	16.4
FEB 06...	1215	1.7	978	7.8	0.5	13.3
MAR 12...	1230	3.4	612	8.2	9.5	14.3
APR 09...	1210	1.9	568	9.3	9.0	15.1
JUL 16...	1145	1.8	315	7.6	25.5	8.0
SEP 04...	1315	0.72	342	8.0	25.0	9.8

MILL CREEK BASIN

03294570 MILL CREEK AT ORELL ROAD NEAR LOUISVILLE, KY

WATER-QUALITY RECORDS

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

DRAINAGE AREA.-- 13.5 mi².

PERIOD OF RECORD.--February 1988 to current year.

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 17...	1045	3.8	681	7.7	10.5	8.9
NOV 07...	1020	7.6	413	7.7	8.0	9.8
DEC 12...	1040	2.8	818	8.0	0.0	14.1
FEB 06...	1125	3.2	673	7.8	0.0	16.1
MAR 12...	1020	5.0	409	8.2	6.0	12.2
APR 19...	1045	4.0	470	8.6	7.5	12.1
JUL 16...	1030	5.7	197	7.5	23.0	5.9
SEP 04...	1215	3.8	791	7.7	23.0	7.0

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.--Estimated daily discharges: Dec. 9, 10, 23-28, Jan. 7-14, Feb. 2-8, 14, 15, July 21, 22, and Aug. 10-12. Records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	26	59	78	110	162	1240	521	334	18	250	28
2	.96	25	52	384	100	131	843	300	264	20	125	19
3	1.8	106	44	981	95	115	490	266	228	283	97	15
4	3.8	73	41	425	88	96	309	351	202	49	64	14
5	196	52	37	281	78	95	144	1700	181	30	48	30
6	334	39	35	186	74	1410	104	1540	146	26	38	23
7	182	81	31	160	67	1750	87	451	1040	20	31	18
8	81	157	29	150	64	825	82	560	447	17	27	13
9	40	169	24	140	166	473	72	680	790	15	26	12
10	24	99	23	135	137	315	62	352	484	14	24	12
11	17	368	22	123	112	241	56	278	780	12	22	10
12	12	437	20	115	93	194	51	223	2800	10	20	8.8
13	8.7	293	20	110	74	177	47	187	640	9.6	18	7.6
14	7.7	301	19	100	62	161	46	168	396	9.0	17	6.6
15	7.3	145	23	380	68	196	46	684	282	429	15	6.0
16	7.0	117	363	617	70	320	56	663	206	489	295	47
17	6.8	90	185	1670	65	815	47	296	149	167	92	216
18	17	74	1150	897	58	484	47	208	199	97	100	184
19	14	65	1620	1890	69	992	44	159	209	1280	40	90
20	11	55	1180	759	798	938	548	123	101	5070	33	58
21	10	49	513	337	462	687	525	104	103	3470	38	44
22	10	41	319	216	265	642	249	86	98	1870	28	53
23	8.0	261	175	330	191	626	1410	69	60	274	21	34
24	6.7	404	120	4150	150	472	766	57	47	161	17	25
25	5.7	217	110	931	122	433	393	57	48	109	21	22
26	8.3	135	98	475	107	308	351	555	41	80	20	19
27	60	107	86	319	97	227	212	2550	35	59	23	257
28	106	88	76	230	224	195	161	2910	28	47	48	4850
29	50	73	70	181	263	372	169	4290	23	39	21	797
30	55	63	64	152	---	364	676	1010	19	39	53	318
31	36	---	60	128	---	257	---	474	---	938	43	---
TOTAL	1329.06	4210	6668	17030	4329	14473	9333	21872	10380	15150.6	1715	7237.0
MEAN	42.9	140	215	549	149	467	311	706	346	489	55.3	241
MAX	334	437	1620	4150	798	1750	1410	4290	2800	5070	295	4850
MIN	.96	25	19	78	58	95	44	57	19	9.0	15	6.0
CFSM	.25	.82	1.25	3.19	.87	2.71	1.81	4.10	2.01	2.84	.32	1.40
IN.	.29	.91	1.44	3.68	.94	3.13	2.02	4.73	2.24	3.28	.37	1.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1996, BY WATER YEAR (WY)

MEAN	76.7	167	405	502	434	504	221	377	233	146	71.1	65.5
MAX	262	359	1360	675	642	797	409	925	517	489	137	241
(WY)	1991	1994	1991	1994	1991	1994	1994	1995	1992	1996	1992	1996
MIN	6.13	11.4	123	344	149	99.9	105	118	23.6	6.72	7.25	5.84
(WY)	1995	1992	1990	1993	1996	1990	1992	1991	1994	1993	1993	1994

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1989 - 1996	
ANNUAL TOTAL	109669.96		113726.66			
ANNUAL MEAN	300		311		265	
HIGHEST ANNUAL MEAN					335	
LOWEST ANNUAL MEAN					181	
HIGHEST DAILY MEAN	7920	May 18	5070	Jul 20	9220	Dec 18 1990
LOWEST DAILY MEAN	.96	Oct 2	.96	Oct 2	.86	Jul 31 1993
ANNUAL SEVEN-DAY MINIMUM	1.5	Sep 3	8.5	Oct 20	1.5	Sep 3 1995
INSTANTANEOUS PEAK FLOW			15100	May 5	15100	May 5 1996
INSTANTANEOUS PEAK STAGE			12.18	May 5	12.18	May 5 1996
ANNUAL RUNOFF (CFSM)	1.75		1.81		1.54	
ANNUAL RUNOFF (INCHES)	23.72		24.60		20.95	
10 PERCENT EXCEEDS	627		770		570	
50 PERCENT EXCEEDS	81		103		83	
90 PERCENT EXCEEDS	5.2		17		7.2	

SALT RIVER BASIN

03295890 BRASHEARS CREEK AT TAYLORSVILLE, KY

LOCATION.--Lat 38°02'13", long 85°20'27", Spencer County, Hydrologic Unit 05140102, on left bank at downstream side of bridge on State Highway 155, at the north edge of Taylorsville, 1.2 mi upstream from Salt River, and at mile 1.2.

DRAINAGE AREA.--259 mi²

PERIOD OF RECORD.--July 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is 466.85 ft above sea level.

REMARKS.--Estimated daily discharges: Dec. 6-12, 26-30, Jan. 6-13 and Feb. 2-8. Records good except for periods of estimated record, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	66	81	152	233	466	3320	1330	392	25	55	8.3
2	1.1	61	75	226	200	357	2110	864	304	124	48	7.0
3	1.7	172	71	857	160	285	1260	650	301	387	39	5.8
4	2.2	195	65	705	140	224	827	1040	288	164	29	5.2
5	41	133	60	500	120	209	588	1000	258	90	22	5.1
6	341	96	54	380	130	1350	437	2910	176	60	19	5.0
7	173	92	48	260	140	1370	351	1270	481	49	15	4.7
8	91	92	44	200	150	1010	284	1080	1350	77	191	4.8
9	56	100	40	180	205	710	236	1400	2620	64	347	4.3
10	40	94	36	160	201	548	201	885	1180	44	84	7.6
11	31	194	34	150	170	456	174	1470	845	32	49	7.4
12	24	755	32	140	147	395	156	1210	1260	25	39	6.5
13	20	420	35	160	126	338	141	754	994	21	28	5.5
14	15	437	35	208	112	291	156	524	569	28	23	5.0
15	13	397	53	322	103	535	162	983	607	125	19	4.7
16	10	311	723	529	94	950	193	1140	387	159	17	70
17	8.7	247	616	2220	80	851	172	678	265	77	17	212
18	9.1	203	1260	1750	72	660	148	464	356	60	14	100
19	8.1	170	2890	4520	73	1870	131	329	434	42	13	70
20	8.0	143	2030	1610	1320	2830	889	249	248	270	13	39
21	7.5	122	1100	962	1330	1790	994	193	178	113	20	28
22	8.6	107	693	635	845	1400	542	157	136	633	16	23
23	9.4	108	489	728	802	1340	2650	128	106	197	11	19
24	17	127	374	8240	586	1130	2370	109	97	105	22	17
25	20	131	302	2200	415	947	1270	117	80	73	57	16
26	18	116	220	1290	346	778	1030	888	61	56	30	12
27	28	110	180	932	319	561	709	805	50	44	28	250
28	97	104	150	646	912	474	509	2280	42	35	32	2070
29	141	98	130	516	698	627	1110	3700	35	29	28	748
30	134	88	120	418	---	623	2120	1140	30	26	17	308
31	87	---	138	333	---	560	---	615	---	50	11	---
TOTAL	1463.4	5489	12178	32129	10229	25935	25240	30362	14130	3284	1353	4068.9
MEAN	47.2	183	393	1036	353	837	841	979	471	106	43.6	136
MAX	341	755	2890	8240	1330	2830	3320	3700	2620	633	347	2070
MIN	1.1	61	32	140	72	209	131	109	30	21	11	4.3
CFSM	.18	.71	1.52	4.00	1.36	3.23	3.25	3.78	1.82	.41	.17	.52
IN.	.21	.79	1.75	4.61	1.47	3.73	3.63	4.36	2.03	.47	.19	.58

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1996, BY WATER YEAR (WY)

MEAN	37.9	195	457	533	759	586	464	504	226	82.7	54.7	20.2
MAX	240	586	1806	1036	1984	838	841	1912	598	219	291	136
(WY)	1991	1986	1991	1996	1989	1993	1996	1983	1992	1989	1992	1996
MIN	.012	3.97	116	47.0	212	80.5	48.3	47.1	1.90	4.44	.030	.001
(WY)	1989	1988	1990	1986	1992	1983	1986	1986	1988	1994	1983	1983

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1981 - 1996

ANNUAL TOTAL	113717.9	165861.3	
ANNUAL MEAN	312	453	325
HIGHEST ANNUAL MEAN			454
LOWEST ANNUAL MEAN			201
HIGHEST DAILY MEAN	9040 May 18	8240 Jan 24	20700 Feb 16 1990
LOWEST DAILY MEAN	1.1 Oct 2	1.1 Oct 2	.00 Aug 19 1983
ANNUAL SEVEN-DAY MINIMUM	2.4 Sep 1	5.0 Sep 3	.00 Aug 19 1983
INSTANTANEOUS PEAK FLOW		11200 Jan 24	26200 Feb 16 1990
INSTANTANEOUS PEAK STAGE		19.44 Jan 24	27.55 Feb 16 1990
INSTANTANEOUS LOW FLOW			.08 Oct 1 1994
ANNUAL RUNOFF (CFSM)	1.20	1.75	1.25
ANNUAL RUNOFF (INCHES)	16.33	23.82	17.05
10 PERCENT EXCEEDS	697	1260	800
50 PERCENT EXCEEDS	92	160	87
90 PERCENT EXCEEDS	6.5	16	1.4

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 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.

GAGE.--Water-stage recorder. Datum of gage is 599.89 ft above sea level.

REMARKS.--Estimated daily discharges: Dec. 8-13, 16, 24-31, Jan. 6-14, 20, 21, May 19-23, June 23-30, July 4-7, 9-14, 17-21, and Sept. 16, 17. Records good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.39	.95	14	73	60	116	1480	287	68	49	4.4	3.0
2	.45	1.2	13	196	53	93	361	156	68	255	4.0	3.1
3	.91	4.4	11	392	49	73	168	115	71	61	3.8	3.4
4	2.3	4.3	10	122	45	64	116	125	72	21	3.5	5.9
5	266	2.2	9.4	90	41	65	97	150	48	14	3.3	6.3
6	136	1.6	8.8	70	37	157	82	722	34	9.0	3.1	6.2
7	18	3.8	8.2	60	35	130	73	163	135	6.3	3.0	15
8	4.6	7.5	8.0	110	33	105	66	673	1100	248	3.3	15
9	2.3	3.8	7.6	80	70	89	60	581	997	24	4.1	8.7
10	1.4	2.7	7.3	72	63	85	54	226	272	14	4.2	9.5
11	1.6	227	7.0	66	57	78	49	3240	312	6.3	3.8	5.4
12	2.0	128	6.8	62	46	73	46	452	872	5.4	8.1	4.1
13	.39	83	6.6	58	41	67	49	189	220	4.6	4.3	3.3
14	1.5	99	11	54	42	61	87	122	109	4.0	3.3	3.0
15	4.5	71	18	137	41	161	65	573	110	545	2.9	3.0
16	6.4	56	141	212	35	130	72	266	78	88	3.1	73
17	6.2	44	95	893	31	108	61	134	57	28	3.0	340
18	6.9	38	770	562	29	87	55	94	140	18	3.0	62
19	8.9	31	1300	1790	33	1270	58	70	562	9.4	3.5	23
20	15	26	364	640	718	804	809	58	78	7.8	3.3	9.6
21	22	23	140	200	223	397	214	45	50	4.7	3.1	7.9
22	16	20	99	100	366	275	175	36	38	99	3.0	45
23	11	28	79	567	226	319	961	30	32	37	3.3	23
24	12	37	62	2370	119	229	395	25	27	17	4.3	9.2
25	12	28	56	287	89	174	161	20	23	9.3	4.9	6.0
26	19	24	50	161	90	133	201	37	20	6.9	3.8	4.8
27	45	23	45	148	118	101	117	670	18	5.5	3.3	141
28	60	21	40	102	719	98	212	563	16	4.8	3.1	1370
29	17	18	37	92	177	314	1610	685	15	4.8	2.9	314
30	4.2	16	34	78	---	151	1240	147	14	5.3	3.0	108
31	2.0	---	33	69	---	238	---	91	---	4.8	3.0	---
TOTAL	705.94	1073.45	3491.7	9913	3686	6245	9194	10745	5656	1616.9	112.7	2631.4
MEAN	22.8	35.8	113	320	127	201	306	347	189	52.2	3.64	87.7
MAX	266	227	1300	2370	719	1270	1610	3240	1100	545	8.1	1370
MIN	.39	.95	6.6	54	29	61	46	20	14	4.0	2.9	3.0
CFSM	.29	.45	1.41	4.00	1.59	2.52	3.84	4.34	2.36	.65	.05	1.10
IN.	.33	.50	1.63	4.62	1.72	2.91	4.28	5.00	2.63	.75	.05	1.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1996, BY WATER YEAR (WY)

MEAN	12.5	48.8	92.4	225	140	199	157	190	83.0	32.0	42.0	19.2
MAX	26.3	118	120	320	202	265	306	398	189	66.7	103	87.7
(WY)	1994	1994	1992	1996	1993	1992	1996	1995	1996	1995	1993	1996
MIN	3.01	3.14	38.8	127	43.3	103	37.3	26.5	4.07	1.89	1.04	1.16
(WY)	1995	1992	1993	1992	1992	1995	1995	1993	1991	1991	1994	1995

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1991 - 1996

ANNUAL TOTAL	36051.40	55071.09	
ANNUAL MEAN	98.8	150	106
HIGHEST ANNUAL MEAN			150
LOWEST ANNUAL MEAN			79.5
HIGHEST DAILY MEAN	2810 May 18	3240 May 11	3240 May 11 1996
LOWEST DAILY MEAN	.11 Sep 26	.39 Oct 1	.11 Sep 26 1995
ANNUAL SEVEN-DAY MINIMUM	.20 Sep 23	2.0 Oct 9	.17 Jul 16 1991
INSTANTANEOUS PEAK FLOW		e 6010 May 11	e 6010 May 11 1996
INSTANTANEOUS PEAK STAGE		e 18.25 May 11	e 18.25 May 11 1996
ANNUAL RUNOFF (CFSM)	1.24	1.88	1.33
ANNUAL RUNOFF (INCHES)	16.78	25.64	18.06
10 PERCENT EXCEEDS	171	365	210
50 PERCENT EXCEEDS	20	49	25
90 PERCENT EXCEEDS	1.3	3.3	1.1

e Estimated

SALT RIVER BASIN

03297980 LONG RUN NEAR FISHERVILLE, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°13'10", long 85°26'56", Jefferson County, Hydrologic Unit 05140102, at bridge on State Highway 1531, 0.7 mi below South Long Run and at mile 2.4.

DRAINAGE AREA.-- 22.5 mi².

PERIOD OF RECORD.--August 1988 to current year.

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 18...	0845	0.30	462	7.7	8.5	9.3
NOV 20...	1225	6.4	337	7.8	6.0	13.5
JAN 17...	0855	219	204	7.0	6.0	11.6
FEB 20...	1010	217	319	7.7	5.0	10.3
MAR 19...	0850	860	250	7.7	5.5	10.6
APR 17...	0845	13	482	8.0	8.0	10.8
MAY 28...	1045	114	381	7.9	20.0	8.1
JUL 22...	0920	13	373	8.0	22.5	7.6
SEP 18...	1115	3.2	349	7.6	16.0	9.1

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.

WATER-DISCHARGE RECORDS

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 sea level.

REMARKS.--Estimated daily discharges: Dec. 26-30, Jan. 6-8, Jan. 9-22, and Feb. 1-8. Records good except for periods of estimated record, which are fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1937 reached a stage of 16.8 ft, from floodmark.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	.30	22	98	100	246	1890	587	133	11	25	19
2	.85	4.2	20	310	90	185	693	367	128	297	20	18
3	3.9	26	18	671	80	136	390	258	135	174	20	21
4	36	5.3	17	262	72	105	264	550	114	73	17	24
5	426	2.2	15	151	66	105	208	547	90	48	12	29
6	382	.44	13	120	61	635	165	1140	79	35	8.1	49
7	91	6.1	11	100	57	451	138	418	238	89	7.0	38
8	48	12	10	175	54	328	117	936	1750	617	11	62
9	29	8.6	9.5	155	118	317	102	914	1770	107	5.8	59
10	17	1.8	8.1	140	96	253	92	543	675	61	4.0	42
11	8.1	260	7.5	130	89	158	85	4220	858	45	3.4	34
12	3.9	337	8.0	118	78	141	80	798	1220	35	5.3	24
13	2.0	153	11	112	69	124	82	428	511	34	9.7	15
14	1.4	177	8.6	130	69	109	149	271	254	100	9.0	8.1
15	2.0	120	17	260	68	385	113	900	320	1100	3.3	4.4
16	2.2	87	391	400	63	347	124	585	162	239	1.7	75
17	1.5	70	176	1500	55	269	104	303	108	101	6.4	804
18	1.1	59	1030	1100	53	199	91	197	86	73	5.2	129
19	1.0	51	1870	3000	60	1870	89	142	612	64	3.7	63
20	1.3	43	698	1800	1130	1260	1110	109	133	79	3.4	41
21	1.7	37	303	800	519	741	496	91	84	78	4.2	34
22	1.7	32	172	190	457	572	616	80	67	175	4.9	72
23	2.7	36	137	927	464	605	1410	71	55	101	4.0	66
24	7.4	46	107	3720	255	476	811	63	46	62	5.5	42
25	7.4	44	93	607	172	408	400	61	45	46	12	29
26	7.6	37	84	367	156	315	445	223	37	36	7.3	19
27	40	32	74	318	366	219	282	1180	32	27	18	234
28	129	33	62	211	1150	199	289	1550	27	20	27	1910
29	50	30	48	174	400	500	1960	1380	21	58	21	511
30	13	26	44	143	---	325	1810	378	12	72	18	193
31	1.9	---	62	112	---	285	---	200	---	38	21	---
TOTAL	1321.65	1776.94	5546.7	18301	6467	12268	14605	19490	9802	4095	323.9	4668.5
MEAN	42.6	59.2	179	590	223	396	487	629	327	132	10.4	156
MAX	426	337	1870	3720	1150	1870	1960	4220	1770	1100	27	1910
MIN	.85	.30	7.5	98	53	105	80	61	12	11	1.7	4.4
CFSM	.31	.43	1.30	4.28	1.62	2.87	3.53	4.56	2.37	.96	.08	1.13
IN.	.36	.48	1.50	4.93	1.74	3.31	3.94	5.25	2.64	1.10	.09	1.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1996, BY WATER YEAR (WY)

	MEAN	33.1	107	227	291	365	387	285	214	113	64.1	45.9	40.9
MAX	423	485	1025	1252	990	1517	1021	971	588	331	290	1020	
(WY)	1978	1974	1991	1950	1956	1964	1970	1983	1973	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	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1944 - 1996

ANNUAL TOTAL	66622.89	98665.69	
ANNUAL MEAN	183	270	180
HIGHEST ANNUAL MEAN			382
LOWEST ANNUAL MEAN			29.0
HIGHEST DAILY MEAN	5000	May 18	15400
LOWEST DAILY MEAN	.30	Nov 1	.00
ANNUAL SEVEN-DAY MINIMUM	1.4	Sep 26	.00
INSTANTANEOUS PEAK FLOW			28500
INSTANTANEOUS PEAK STAGE		10.95	16.15
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (CFSM)	1.32	1.95	1.31
ANNUAL RUNOFF (INCHES)	17.96	26.60	17.76
10 PERCENT EXCEEDS	385	711	365
50 PERCENT EXCEEDS	41	89	34
90 PERCENT EXCEEDS	4.5	6.0	.40

SALT RIVER BASIN

03298000 FLOYDS FORK AT FISHERVILLE, KY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1988 to current year.

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 24...	0950	6.8	572	7.8	13.0	8.3
NOV 20...	1205	42	401	8.0	6.0	11.2
JAN 22...	1045	185	517	7.6	3.0	13.3
FEB 20...	1020	1340	450	7.8	9.0	--
MAR 21...	0950	741	500	8.0	4.5	11.7
APR 16...	0955	129	510	8.2	11.0	10.8
MAY 28...	1200	669	347	7.8	21.0	7.4
JUL 23...	0940	95	436	8.1	22.0	7.4
SEP 18...	1235	103	262	7.5	18.0	7.7

SALT RIVER BASIN

03298100 POPE LICK AT POPE LICK ROAD NEAR MIDDLETOWN, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°13'09", long 85°31'07", Jefferson County, Hydrologic Unit 05140102, at culvert on Pope Lick Road, and at mile 3.2.

DRAINAGE AREA.-- 2.9 mi².

PERIOD OF RECORD.--February 1988 to current year.

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 24...	0840	2.2	736	7.5	13.5	5.8
NOV 20...	0850	1.3	497	7.6	6.5	11.0
JAN 16...	1415	8.2	876	8.1	8.0	14.4
FEB 20...	0850	23	646	7.7	7.5	10.5
MAR 21...	0840	13	758	7.9	6.0	11.4
APR 16...	0850	3.8	651	7.9	8.0	11.2
MAY 28...	0850	18	477	7.8	17.5	8.2
JUL 23...	0845	2.0	643	8.1	20.5	7.6
SEP 18...	0855	1.7	652	7.5	16.0	7.4

SALT RIVER BASIN

03298150 CHENOWETH RUN AT GELHAUS LANE NEAR FERN CREEK, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°09'36", long 85°32'32", Jefferson County, Hydrologic Unit 05140102, at bridge on Gelhaus Lane, 100 ft above Razor Branch, and at mile 2.3.

DRAINAGE AREA.--11.6 mi².

PERIOD OF RECORD.--February 1988 to current year.

REMARKS.--Samples were collected monthly

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 24...	1115	8.5	757	8.2	14.5	11.2
NOV 21...	1020	7.2	492	8.6	8.0	17.7
JAN 23...	1150	144	417	6.8	6.0	12.1
FEB 21...	1020	33	618	8.4	8.5	12.8
MAR 20...	1210	113	700	8.1	6.5	12.1
APR 16...	1135	30	583	9.0	11.0	16.9
MAY 29...	1105	91	423	8.0	19.5	8.8
JUN 25...	1125	7.2	608	8.7	28.0	12.2
JUL 23...	1110	8.4	570	8.5	22.0	10.8
AUG 06...	1020	6.4	715	8.3	24.0	8.6
SEP 17...	1215	12	460	8.5	19.0	10.7
26...	1210	6.0	635	8.9	20.0	13.9

SALT RIVER BASIN

03298200 FLOYDS FORK NEAR MOUNT WASHINGTON, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°05'07", long 85°33'18", Jefferson County, Hydrologic Unit 05140102, at bridge on U.S. Highway 31E, 0.2 mi below Old Mans Run, and at mile 18.7.

DRAINAGE AREA.--213 mi².

PERIOD OF RECORD.--February 1988 to current year.

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 24...	1208	16	557	7.7	12.5	7.7
NOV 28...	0840	63	630	7.9	7.0	10.3
JAN 16...	0850	417	376	8.2	1.0	13.5
FEB 14...	0845	106	583	8.2	3.0	13.0
MAR 21...	1305	1090	522	8.1	5.0	12.0
APR 16...	1215	195	515	8.3	11.5	11.8
MAY 22...	0930	123	514	8.0	21.5	6.9
JUL 23...	1215	152	446	8.2	23.0	7.9
SEP 17...	0905	1720	412	7.8	18.5	7.7

SALT RIVER BASIN

03298242 CEDAR CREEK AT FAIRMOUNT ROAD NEAR MOUNT WASHINGTON, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°06'43", long 85°35'49", Jefferson County, Hydrologic Unit 05140102, at bridge on Fairmount Road, 5.2 mi northwest of Mt. Washington, and at mile 10.9.

DRAINAGE AREA.--7.8 mi².

PERIOD OF RECORD.--December 1992 to current year

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 18...	1305	2.0	850	7.6	15.0	8.1
NOV 28...	1325	3.0	807	8.2	8.5	15.2
JAN 17...	1430	27	518	7.8	10.5	13.1
FEB 14...	1215	5.2	804	8.4	7.0	11.1
MAR 19...	1240	165	355	7.6	5.5	10.8
APR 17...	1240	6.6	666	8.6	12.0	19.1
MAY 22...	1255	4.1	661	7.9	19.5	8.3
JUL 22...	1045	7.7	547	8.0	22.5	7.6
SEP 12...	1045	3.7	600	8.0	21.0	7.6

SALT RIVER BASIN

03298250 CEDAR CREEK AT THIXTON ROAD NEAR LOUISVILLE, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°04'45", long 85°36'58", Jefferson County, Hydrologic Unit 05140102, at culvert on Thixton Road, 4.2 mi above Pennsylvania Run, and at mile 7.4.

DRAINAGE AREA.--11.1 mi².

PERIOD OF RECORD.--February 1988 to current year.

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 18...	1100	--	832	8.0	11.5	11.2
NOV 28...	1035	3.8	800	8.2	6.5	14.4
JAN 17...	1200	45	441	8.0	9.5	14.5
FEB 14...	1025	5.4	746	8.6	4.5	16.3
MAR 20...	1020	90	536	8.0	5.5	12.7
APR 17...	1150	9.2	630	8.7	12.0	17.6
MAY 22...	1105	7.3	619	8.1	19.5	9.7
JUL 22...	1145	--	360	8.0	23.0	7.8
SEP 12...	0940	3.8	530	7.8	20.0	8.4

SALT RIVER BASIN

03298300 PENNSYLVANIA RUN AT MOUNT WASHINGTON ROAD NEAR LOUISVILLE, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°05'15", long 85°38'33", Jefferson County, Hydrologic Unit 05140102, at bridge on Mt. Washington Road, and at mile 1.9.

DRAINAGE AREA.--6.4 mi².

PERIOD OF RECORD.--February 1988 to current year.

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 18...	1000	0.50	718	7.2	13.0	4.6
NOV 08...	1115	3.3	558	7.6	9.0	7.0
JAN 19...	1050	2.1	353	7.1	6.0	12.6
FEB 07...	1040	4.1	588	7.3	2.5	11.1
MAR 20...	0845	54	465	8.0	6.5	11.2
APR 17...	1025	4.9	533	7.7	9.5	9.8
MAY 08...	1205	59	374	7.7	18.0	8.6
JUL 22...	1225	11	410	8.0	25.0	6.7
SEP 12...	0845	1.0	513	7.5	20.5	4.4

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 sea level. See WDR KY-90-1 for history of changes prior to Oct. 16, 1969.

REMARKS.--Estimated daily discharges: Dec. 9-13, Dec. 27 to Jan. 2, Feb. 3-5, March 4, 6, Apr. 8-14, and May 12-15, 17-22. Records good except for periods of estimated record, which are fair. Flow regulated since January 1983 by Taylorsville Lake (station 03295597). Diversions for water supply by Shepherdsville and other municipalities

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 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	295	307	4500	4280	2710	6150	5050	2660	248	991	81
2	25	282	288	4000	4100	2370	6920	4190	3310	244	1130	73
3	38	544	273	3750	2400	2100	4060	4290	2830	717	1360	70
4	91	533	247	3120	1700	1100	3760	4970	2910	683	636	67
5	2240	432	209	2200	1200	875	3620	4300	2810	429	324	67
6	2120	362	198	1980	582	4700	3210	9800	2640	336	185	68
7	677	438	176	1700	550	5750	2980	3670	3980	296	164	71
8	361	469	181	1470	603	4730	2300	5110	7500	1240	160	83
9	236	680	175	1600	1140	4290	2000	5720	17400	719	934	104
10	167	718	170	1710	1230	4430	1700	3520	7390	418	421	136
11	129	1540	165	1140	1130	4370	1450	10400	5010	322	226	131
12	102	2330	190	898	675	4030	1300	7000	7030	259	178	98
13	88	1930	200	841	542	2070	1150	4500	5190	203	150	91
14	77	1850	205	1000	514	1160	1050	3000	4040	209	124	84
15	66	1470	254	1920	546	1490	818	5800	3500	3510	107	77
16	60	1210	2120	2580	569	2740	880	5920	3470	1310	99	138
17	57	1030	2170	5460	530	3290	795	4800	2900	567	90	639
18	54	907	3670	5150	512	2410	1190	4000	2780	562	88	680
19	53	832	8860	14000	527	6810	802	3400	2760	633	84	327
20	57	755	6650	7090	4220	10800	4110	2900	3700	771	80	229
21	63	424	3780	3180	4460	6330	4050	2400	2940	890	116	779
22	77	538	3210	3190	3450	5330	2380	2000	2790	2060	147	408
23	71	685	2840	3430	3550	5440	7050	2190	2700	2340	124	188
24	70	1020	2630	20300	3120	4840	7030	2910	2610	2070	150	163
25	70	1030	2440	14900	2730	4550	4150	1640	2630	1880	165	134
26	72	977	2260	4940	1480	4400	4400	10900	2480	1820	142	113
27	184	791	2200	3690	1070	3630	4250	11200	2400	1770	116	265
28	462	684	2020	3510	3740	2320	3760	8680	2270	1680	138	6000
29	485	651	1900	3640	3540	2690	5840	15200	882	646	127	3490
30	373	420	1600	3970	---	2770	9020	4840	367	359	104	2650
31	331	---	2000	4340	---	2380	---	2640	---	1190	93	---
TOTAL	8980	25827	53588	135199	54690	116905	102175	166940	115879	30381	8953	17504
MEAN	290	861	1729	4361	1886	3771	3406	5385	3863	980	289	583
MAX	2240	2330	8860	20300	4460	10800	9020	15200	17400	3510	1360	6000
MIN	24	282	165	841	512	875	795	1640	367	203	80	67

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1996, BY WATER YEAR (WY)

MEAN	257	1066	1988	2571	4030	2952	2125	2029	1214	464	298	212
MAX	1166	2206	6329	5728	12370	5264	3506	5768	3863	980	1018	583
(WY)	1991	1994	1991	1991	1989	1989	1989	1995	1996	1996	1992	1996
MIN	25.9	55.5	258	335	996	1113	377	216	38.9	63.6	40.0	46.6
(WY)	1989	1988	1990	1986	1992	1990	1986	1985	1988	1994	1988	1993

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1984 - 1996	
ANNUAL TOTAL	582879		837021			
ANNUAL MEAN	1597		2287		1587	
HIGHEST ANNUAL MEAN					2571	
LOWEST ANNUAL MEAN					995	
HIGHEST DAILY MEAN	27400	May 19	20300	Jan 24	39100	Feb 16 1990
LOWEST DAILY MEAN	24	Oct 1	24	Oct 1	7.7	Jul 1 1988
ANNUAL SEVEN-DAY MINIMUM	26	Sep 26	59	Oct 15	9.3	Jun 26 1988
INSTANTANEOUS PEAK FLOW			23200	Jan 24	78200	Mar 10 1964
INSTANTANEOUS PEAK STAGE			25.86	Jan 24	41.50	Mar 11 1964
10 PERCENT EXCEEDS	3730		5120		4070	
50 PERCENT EXCEEDS	473		1400		522	
90 PERCENT EXCEEDS	53		101		46	

SALT RIVER BASIN

03298550 LONG LICK NEAR CLERMONT, KY

LOCATION.--Lat 37°55'40", long 85°39'13", Bullitt County, Hydrologic Unit 05140102, 100 ft downstream of bridge at Jim Beam Distillery, at Clermont, and 10.8 mi upstream from mouth.

DRAINAGE AREA.-- 7.91 mi².

PERIOD OF RECORD.--April 1992 to current year.

GAGE.--Water-stage recorder. Datum of gage is 450 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 9-12, 16, 22-28, Jan. 7-10, Feb. 1-5, and Mar. 11, 12. Records good except for periods of estimated record, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.48	5.8	.39	7.6	6.0	9.1	61	27	7.2	.25	1.9	.08
2	.63	13	.55	31	5.0	4.2	21	18	8.4	.30	1.2	.08
3	2.4	19	.62	28	4.5	4.6	14	21	7.0	.28	1.1	.07
4	1.8	6.3	.33	12	3.8	5.7	12	15	5.3	.11	.85	.07
5	64	7.0	.14	8.7	3.5	7.1	9.5	62	3.8	.10	1.1	.09
6	5.9	5.0	.12	7.2	3.3	165	7.8	50	3.3	.10	.64	.10
7	2.0	25	.09	6.0	3.5	94	6.8	22	29	.63	1.0	.07
8	2.7	5.3	.08	5.4	4.4	24	6.0	85	221	3.3	2.0	.06
9	2.1	2.9	.07	5.0	5.3	14	5.2	30	72	.35	1.5	.07
10	1.8	7.3	.06	4.7	4.8	12	4.7	16	33	.17	.89	.06
11	1.7	29	.06	5.6	4.7	10	5.0	12	17	.15	.93	.06
12	1.6	4.4	.05	6.5	3.6	9.2	5.5	9.4	27	.20	1.2	.19
13	1.4	11	.05	6.9	3.1	8.5	8.7	7.3	12	.23	1.8	.10
14	1.1	5.1	.08	32	3.4	7.8	14	6.5	8.2	.68	1.6	.07
15	1.2	1.3	.42	33	2.8	17	15	85	6.5	9.9	.99	.06
16	1.4	.51	5.0	39	2.2	58	14	21	8.1	1.0	.38	.69
17	1.9	.26	1.3	35	1.9	44	7.7	12	3.0	.89	.32	.52
18	1.7	.19	72	133	1.7	17	5.6	8.3	4.1	.91	.26	.32
19	1.5	.14	109	79	10	140	6.1	7.0	25	.92	.23	.24
20	2.8	.13	25	21	91	57	131	3.6	20	.97	1.0	.20
21	2.2	.18	9.4	14	18	31	28	4.2	7.0	.85	2.1	.36
22	2.9	.28	6.0	11	11	34	18	3.2	4.2	.98	2.2	.26
23	1.5	.62	5.0	94	7.7	48	115	2.1	4.0	1.2	1.4	.23
24	.58	.27	4.0	183	5.0	41	36	2.1	1.6	.99	.55	.23
25	1.9	.18	3.0	27	2.6	37	22	3.0	1.8	.84	.18	.18
26	5.4	.25	2.6	18	4.5	19	51	172	1.5	.58	.15	.10
27	12	.38	2.2	15	23	13	21	148	.70	.73	.14	7.8
28	7.5	.28	1.9	11	41	12	18	116	.48	.76	.12	31
29	7.2	.20	1.7	9.8	14	14	91	77	.35	.91	.11	.25
30	5.8	.21	1.6	8.5	---	11	76	17	.33	2.2	.10	.09
31	5.3	---	3.9	7.3	---	10	---	11	---	15	.09	---
TOTAL	152.39	151.48	256.71	905.2	295.3	978.2	836.6	1073.7	542.86	46.48	28.03	43.70
MEAN	4.92	5.05	8.28	29.2	10.2	31.6	27.9	34.6	18.1	1.50	.90	1.46
MAX	64	29	109	183	91	165	131	172	221	15	2.2	31
MIN	.48	.13	.05	4.7	1.7	4.2	4.7	2.1	.33	.10	.09	.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1996, BY WATER YEAR (WY)

MEAN	2.47	4.05	5.52	19.8	15.8	25.3	19.3	22.3	8.73	1.71	2.47	.95
MAX	4.92	9.13	8.28	29.2	25.8	31.6	27.9	47.2	18.1	3.02	9.21	1.69
(WY)	1996	1994	1996	1996	1994	1996	1996	1995	1996	1992	1995	1992
MIN	.18	.68	1.78	8.87	10.2	11.5	8.82	6.69	.84	.34	.48	.29
(WY)	1995	1995	1993	1993	1996	1995	1992	1992	1994	1994	1994	1993

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1992 - 1996

ANNUAL TOTAL	4107.82	5310.65	
ANNUAL MEAN	11.3	14.5	11.3
HIGHEST ANNUAL MEAN			14.5
LOWEST ANNUAL MEAN			8.63
HIGHEST DAILY MEAN	339 May 18	221 Jun 8	339 May 18 1995
LOWEST DAILY MEAN	.05 Dec 12	.05 Dec 12	.03 Oct 2 1994
ANNUAL SEVEN-DAY MINIMUM	.06 Dec 8	.06 Dec 8	.04 Oct 2 1994
INSTANTANEOUS PEAK FLOW		966 Jun 8	2080 May 7 1994
INSTANTANEOUS PEAK STAGE		6.56 Jun 8	8.09 May 9 1995
10 PERCENT EXCEEDS	28	35	25
50 PERCENT EXCEEDS	1.5	4.2	1.8
90 PERCENT EXCEEDS	.25	.15	.23

SALT RIVER BASIN

03300400 BEECH FORK AT MAUD, KY

LOCATION.--Lat 37°49'58", long 85°17'46", Nelson County, Hydrologic Unit 05140103, on right bank on downstream side of bridge on State Highway 55, 100 ft upstream from Nealy Run, 0.8 mi north of Maud, 1.7 mi downstream from Chaplin River, and at mile 48.1.

DRAINAGE AREA.--436 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 530.00 ft above sea level.

REMARKS.--Estimated daily discharges: Dec. 11-15 and Feb. 1-11. Records good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.41	86	114	143	300	607	3950	1570	440	26	457	10
2	.49	71	100	616	260	460	3510	763	338	22	264	8.3
3	1.1	145	89	4180	230	390	1310	591	296	18	162	6.7
4	2.2	207	81	1480	200	325	800	504	272	16	112	5.7
5	84	144	75	630	180	294	603	613	263	14	76	4.9
6	1240	114	68	449	170	4810	478	2800	215	13	45	4.4
7	534	120	61	376	160	6440	411	1190	1050	12	33	4.0
8	250	528	56	337	210	3040	360	1470	713	24	32	3.9
9	139	597	51	371	500	1050	314	2130	1660	22	106	3.7
10	86	302	47	346	350	675	277	923	1060	15	186	3.7
11	56	655	40	319	290	528	246	613	2150	12	65	4.4
12	39	1880	35	292	273	457	222	483	3890	9.9	78	4.9
13	28	719	32	309	231	405	207	399	1310	8.5	33	5.1
14	23	527	29	397	205	355	205	333	607	9.5	29	4.7
15	19	371	27	1640	193	330	214	1450	408	54	30	4.3
16	16	277	187	2130	178	883	253	1970	301	150	22	10
17	14	214	341	3570	160	3090	256	607	226	147	141	55
18	12	173	1690	1930	143	1260	222	401	178	122	211	263
19	9.7	144	4100	7280	146	2290	191	308	175	67	97	225
20	10	121	3740	2940	2240	3520	2070	250	303	3160	61	132
21	11	104	1200	839	1570	1730	2460	214	968	2900	45	82
22	9.1	90	564	562	864	1370	761	184	314	542	60	67
23	13	167	395	578	755	1420	4420	159	171	389	34	46
24	23	1260	308	9490	473	1070	3520	139	112	208	27	33
25	21	544	254	4940	385	955	1060	120	92	126	23	25
26	20	330	216	1120	337	879	1140	2510	74	79	19	20
27	28	235	188	731	319	608	757	7470	58	55	16	33
28	201	189	171	567	795	506	521	8010	49	41	18	9000
29	246	158	150	469	1050	890	479	7670	44	32	16	3620
30	168	133	137	407	---	1100	2020	2190	34	29	14	867
31	121	---	124	354	---	705	---	674	---	176	12	---
TOTAL	3425.00	10605	14670	49792	13167	42442	33237	48708	17771	8498.9	2524	14556.7
MEAN	110	353	473	1606	454	1369	1108	1571	592	274	81.4	485
MAX	1240	1880	4100	9490	2240	6440	4420	8010	3890	3160	457	9000
MIN	.41	71	27	143	143	294	191	120	34	8.5	12	3.7
CFSM	.25	.81	1.09	3.68	1.04	3.14	2.54	3.60	1.36	.63	.19	1.11
IN.	.29	.90	1.25	4.25	1.12	3.62	2.84	4.16	1.52	.73	.22	1.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1996, BY WATER YEAR (WY)

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	181	537	1061	976	1197	1132	774	692	400	205	184	265												
MAX	1042	1699	3691	2461	5071	3292	2022	2359	1605	685	939	2284												
(WY)	1976	1989	1979	1974	1989	1975	1979	1995	1992	1979	1978	1979												
MIN	.011	.24	111	16.2	203	134	103	43.6	3.32	2.45	.87	.43												
(WY)	1988	1988	1981	1981	1980	1983	1986	1976	1988	1975	1986	1987												

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1973 - 1996

	1995 CALENDAR YEAR	1996 WATER YEAR	1973 - 1996
ANNUAL TOTAL	223728.28	259396.60	
ANNUAL MEAN	613	709	631
HIGHEST ANNUAL MEAN			1243
LOWEST ANNUAL MEAN			308
HIGHEST DAILY MEAN	13400 May 19	9490 Jan 24	31400 Dec 9 1978
LOWEST DAILY MEAN	.23 Sep 15	.41 Oct 1	.00 Oct 8 1983
ANNUAL SEVEN-DAY MINIMUM	.29 Sep 9	4.1 Sep 5	.00 Oct 23 1987
INSTANTANEOUS PEAK FLOW		11500 Jan 24	33300 Dec 9 1978
INSTANTANEOUS PEAK STAGE		18.49 Jan 24	26.16 Dec 9 1978
ANNUAL RUNOFF (CFSM)	1.41	1.63	1.45
ANNUAL RUNOFF (INCHES)	19.09	22.13	19.66
10 PERCENT EXCEEDS	1370	1980	1370
50 PERCENT EXCEEDS	174	228	172
90 PERCENT EXCEEDS	2.8	15	6.2

SALT RIVER BASIN

03301500 ROLLING FORK NEAR BOSTON, KY

LOCATION.--Lat 37°46'02", long 85°42'14", Nelson Cty, 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.

REMARKS.--Estimated daily discharges: Jan. 27 to Feb. 7 and May 6-24. Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	329	445	611	1400	2750	6080	6140	2670	223	725	68
2	16	285	401	914	1200	1940	10300	3930	1650	200	692	58
3	19	435	360	5520	1000	1700	8260	2450	1180	191	570	53
4	80	485	333	6960	800	1400	4120	2090	1020	180	427	47
5	2320	545	304	3120	700	1090	2660	2660	928	161	302	47
6	5590	529	282	1820	600	7050	2020	4500	817	144	277	56
7	3440	554	259	1440	500	14200	1650	4000	1800	131	241	65
8	1250	1290	239	1140	650	15600	1390	3500	5140	165	216	56
9	734	2290	223	965	756	11100	1200	4000	12700	164	283	136
10	495	1420	205	1120	878	4460	1070	3600	10300	142	287	379
11	357	1280	172	1070	1030	2860	944	3000	5410	135	351	220
12	272	3690	169	1100	927	2280	845	2600	8390	121	366	158
13	219	3640	168	1200	800	1780	787	2200	7740	109	360	118
14	183	2250	169	1530	699	1470	802	1900	3310	119	309	92
15	160	1580	170	3210	645	1500	1010	1700	1890	1600	259	78
16	141	1170	292	5340	621	2150	1090	2700	1350	720	215	100
17	126	923	490	6360	585	6290	1090	3000	1040	969	432	431
18	115	754	1380	6770	543	5700	991	2500	944	594	433	1740
19	110	636	6010	10600	550	5820	859	1900	1020	418	732	918
20	103	543	8640	13500	3500	10100	2630	1600	1300	1370	538	601
21	101	472	6930	10900	6060	9060	6160	1100	1050	6950	326	456
22	99	415	2840	6100	3850	5990	4680	860	1250	6790	235	328
23	85	452	1680	5530	2360	5120	7330	640	711	2320	184	256
24	75	1330	1230	13200	1790	5140	11400	500	548	1210	169	215
25	75	1820	995	17800	1400	4880	8560	360	460	768	141	188
26	82	1130	829	16300	1170	4710	4100	3370	391	561	115	158
27	153	867	712	6000	1050	3300	3340	11000	331	428	104	187
28	523	713	630	4000	1820	2320	2220	16000	292	340	144	6810
29	484	593	553	2500	3180	2230	1940	17000	275	286	117	13500
30	571	507	502	2000	---	2940	4540	14600	245	263	90	10300
31	440	---	482	1600	---	2710	---	7940	---	919	75	---
TOTAL	18436	32927	38094	160220	41064	149640	104068	133340	76152	28691	9715	37819
MEAN	595	1098	1229	5168	1416	4827	3469	4301	2538	926	313	1261
MAX	5590	3690	8640	17800	6060	15600	11400	17000	12700	6950	732	13500
MIN	16	285	168	611	500	1090	787	360	245	109	75	47
CFSM	.46	.84	.95	3.98	1.09	3.72	2.67	3.31	1.95	.71	.24	.97
IN.	.53	.94	1.09	4.59	1.18	4.29	2.98	3.82	2.18	.82	.28	1.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1996, BY WATER YEAR (WY)

MEAN	311	1059	2388	3030	3830	3760	2834	1905	1010	761	430	472
MAX	2778	5310	11050	13420	16320	10070	11350	11810	4183	5339	2806	8265
(WY)	1976	1958	1979	1950	1989	1964	1972	1983	1950	1958	1977	1979
MIN	.57	4.32	5.84	77.0	288	344	353	150	24.4	6.78	24.2	1.89
(WY)	1954	1944	1944	1981	1954	1941	1986	1941	1988	1954	1965	1953

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1939 - 1996	
ANNUAL TOTAL	724045		830166			
ANNUAL MEAN	1984		2268		1806	
HIGHEST ANNUAL MEAN					4268	
LOWEST ANNUAL MEAN					473	
HIGHEST DAILY MEAN	24200	May 20	17800	Jan 25	64600	Feb 17 1989
LOWEST DAILY MEAN	15	Sep 12	16	Oct 2	.40	Oct 20 1939
ANNUAL SEVEN-DAY MINIMUM	17	Sep 7	55	Sep 2	.40	Oct 3 1953
INSTANTANEOUS PEAK FLOW			18300	Jan 25	66500	Feb 17 1989
INSTANTANEOUS PEAK STAGE			37.32	Jan 26	52.62	Feb 17 1989
INSTANTANEOUS LOW FLOW			14	Oct 2	.40	Oct 20 1939
ANNUAL RUNOFF (CFSM)	1.53		1.75		1.39	
ANNUAL RUNOFF (INCHES)	20.73		23.77		18.89	
10 PERCENT EXCEEDS	5810		6310		4780	
50 PERCENT EXCEEDS	591		927		500	
90 PERCENT EXCEEDS	72		136		27	

SALT RIVER BASIN

03301575 WILSON CREEK AT HARRISON FORK ROAD NEAR DEATSVILLE, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 37°52'10", long 85°35'58", Nelson County, Hydrologic Unit 05140103, Bernheim State Forest, at Harrison Fork Road ford, 300 ft upstream from Harrison Fork, 2.9 mi southwest of Deatsville, 5.4 mi southeast of Clermont, and at mile 13.6.

DRAINAGE AREA.--5.7 mi².

PERIOD OF RECORD.--October 1990 to current year.

REMARKS.--Water-quality samples collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 26...	1130	0.25	521	8.0	12.0	8.5
NOV 27...	1250	2.5	367	8.2	11.0	12.1
JAN 18...	1145	11	395	8.2	--	14.5
FEB 13...	1220	2.8	475	8.6	4.5	16.0
MAR 25...	1320	32	307	8.9	11.5	15.0
APR 18...	1205	5.3	410	8.6	12.5	13.2
MAY 21...	1230	4.2	448	8.2	20.0	8.9
JUL 25...	1150	4.6	451	8.3	21.5	8.9
SEP 03...	1340	0.01	600	7.2	21.0	4.8

SALT RIVER BASIN

03301580 WILSON CREEK NEAR DEATSVILLE, KY

LOCATION.--Lat 37°51'49", long 85°36'41", Bullitt County, Hydrologic Unit 05140103, Bernheim State Forest, on right bank, 75 ft upstream from Harts Run, 3.7 mi southwest of Deatsville, 5.0 mi southeast of Clermont, and at mile 12.3.

DRAINAGE AREA.--12.3 mi² (revised).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1991 to September 1996. (discontinued)

GAGE.--Water-stage recorder and crest-stage gages. Elevation of gage is 470 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Feb. 2-6 and July 18 to Sept 2. Water-discharge records good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	2.7	3.2	10	9.9	17	95	39	12	3.5	2.3	.08
2	1.0	4.7	3.0	40	9.6	14	46	24	13	3.5	1.9	.04
3	2.0	12	2.9	39	9.2	11	27	31	11	3.3	1.8	.00
4	4.8	6.2	2.7	15	8.8	9.0	21	20	8.8	3.2	1.7	.00
5	136	4.5	2.6	10	8.5	9.9	17	121	7.1	3.1	1.6	.00
6	20	3.7	2.4	8.5	8.2	255	15	97	6.2	3.0	1.5	.00
7	6.1	16	2.3	8.3	7.9	130	13	41	14	14	2.3	.00
8	3.7	10	2.1	8.4	9.2	53	11	124	302	5.1	1.8	.00
9	2.9	6.5	2.1	7.9	8.5	31	9.8	56	110	3.4	1.5	.00
10	2.5	5.1	1.8	6.9	7.3	24	8.6	26	58	3.0	1.4	.00
11	2.3	31	1.7	7.4	6.9	23	7.9	22	27	2.8	1.3	.00
12	2.3	15	1.9	8.5	5.8	22	7.4	18	48	2.8	1.1	.00
13	2.4	33	2.2	9.0	5.3	18	9.9	13	20	2.7	1.0	.00
14	2.0	18	2.3	43	5.5	16	17	11	13	3.6	.90	.00
15	2.2	10	2.4	60	5.2	32	28	111	9.3	54	.80	.62
16	1.9	7.5	18	64	4.7	73	22	34	9.5	6.6	.70	1.7
17	1.7	5.9	8.6	64	4.5	73	14	18	11	4.1	.64	.92
18	1.7	5.0	102	124	4.2	32	11	12	13	3.6	.60	.61
19	1.6	4.3	135	124	15	212	10	9.6	37	3.4	.50	.41
20	2.3	3.9	44	33	140	100	121	7.8	30	3.6	.70	.35
21	2.8	3.5	18	20	37	65	39	6.8	11	3.0	1.0	1.0
22	2.4	3.2	12	16	21	66	24	6.0	8.9	3.5	1.2	.53
23	2.1	14	8.6	126	16	78	171	5.1	7.3	2.9	.72	.24
24	2.2	14	6.9	273	13	67	61	4.6	6.8	2.6	.54	.19
25	2.3	7.7	5.8	56	10	71	35	4.5	7.0	2.4	.40	.14
26	2.1	5.8	5.3	36	9.5	41	78	155	5.0	2.3	.32	.29
27	13	5.1	4.6	25	39	26	31	201	4.4	2.2	.25	1.7
28	7.4	4.4	4.1	17	78	24	23	116	4.0	2.1	.20	.61
29	4.5	3.7	3.7	15	23	41	82	97	3.8	2.0	.15	7.4
30	3.4	3.3	3.6	13	---	25	99	27	3.6	1.8	.13	1.8
31	2.9	---	5.5	11	---	22	---	16	---	4.0	.10	---
TOTAL	245.5	269.7	421.3	1298.9	530.7	1680.9	1154.6	1474.4	821.7	161.1	31.05	79.02
MEAN	7.92	8.99	13.6	41.9	18.3	54.2	38.5	47.6	27.4	5.20	1.00	2.63
MAX	136	33	135	273	140	255	171	201	302	54	2.3	.61
MIN	1.0	2.7	1.7	6.9	4.2	9.0	7.4	4.5	3.6	1.8	.10	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1996, BY WATER YEAR (WY)

MEAN	3.13	7.75	13.3	33.2	32.7	44.2	23.8	22.4	17.3	2.74	1.10	.99
MAX	7.92	20.6	22.4	63.1	63.4	54.2	38.5	47.6	46.5	5.20	2.18	2.63
(WY)	1996	1994	1992	1994	1994	1996	1996	1996	1993	1996	1992	1996
MIN	.34	1.00	6.46	18.5	12.9	23.4	9.75	7.04	1.02	.65	.49	.20
(WY)	1993	1992	1993	1993	1992	1995	1992	1991	1994	1991	1994	1991

SUMMARY STATISTICS

FOR 1996 WATER YEAR

WATER YEARS 1991 - 1996

ANNUAL TOTAL	8168.87		
ANNUAL MEAN	22.3	18.9	
HIGHEST ANNUAL MEAN		23.1	1994
LOWEST ANNUAL MEAN		12.8	1992
HIGHEST DAILY MEAN	302	783	Feb 21 1993
LOWEST DAILY MEAN	.00	.00	Jul 23 1991
ANNUAL SEVEN-DAY MINIMUM	.00	.00	Jul 23 1991
INSTANTANEOUS PEAK FLOW	1530	3650	Jun 11 1993
INSTANTANEOUS PEAK STAGE	7.14	12.74	Aug 7 1995
INSTANTANEOUS LOW FLOW		.00	Jul 23 1991
10 PERCENT EXCEEDS	64	37	
50 PERCENT EXCEEDS	7.4	4.6	
90 PERCENT EXCEEDS	.71	.11	

SALT RIVER BASIN

03301580 WILSON CREEK NEAR DEATSVILLE, KY--Continued

WATER-QUALITY RECORDS

LOCATION.--Lat 37°51'49", long 85°36'41", Bullitt County, Hydrologic Unit 05140103, Bernheim State Forest, on right bank 75 ft upstream from Harts Run, 3.7 mi southwest of Deatsville, 5.0 mi southeast of Clermont, and at mile 12.3.

DRAINAGE AREA.--12.3 mi².

PERIOD OF RECORD.--March 1991 to September 1996 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1991 to September 1996 (discontinued).

pH: March 1991 to September 1996 (discontinued).

WATER TEMPERATURE: March 1991 to September 1996 (discontinued).

DISSOLVED OXYGEN: March 1991 to September 1996 (discontinued).

INSTRUMENTATION.--Water-quality monitor since March 1991.

REMARKS.--Water-quality samples collected monthly. Records good for specific conductance, pH, water temperature, and dissolved oxygen.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 744 microsiemens, Nov. 8, 1992; minimum, 72 microsiemens, Jan. 25, 1994.

pH: Maximum, 10.5 units, Apr. 2-3, 1992; minimum, 5.7 units, Mar. 27, 1992.

WATER TEMPERATURE: Maximum, 31.8°C, July 9, 1993; minimum, 0°C, several days in some years.

DISSOLVED OXYGEN: Maximum recorded, 22.4 mg/L, Jan. 10, 1996; minimum recorded, 1.1 mg/L, Oct. 20, 1991.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 652 microsiemens, Oct. 19; minimum, 114 microsiemens, June 8.

pH: Maximum, 8.9 units, Mar. 26; minimum, 5.8 units, Oct. 29.

WATER TEMPERATURE: Maximum, 28.7°C, June 30; minimum, 0.2°C, Dec. 26.

DISSOLVED OXYGEN: Maximum recorded, 22.4 mg/L, Jan. 10; minimum recorded, 3.0 mg/L, Sep. 3.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	606	602	604	505	491	499	454	415	429
2	---	---	---	610	491	559	505	490	499	425	311	383
3	---	---	---	497	445	467	505	499	501	356	306	324
4	---	---	---	519	482	503	510	498	505	394	356	377
5	---	---	---	526	518	522	512	499	507	415	394	410
6	---	---	---	530	523	528	511	495	504	427	413	420
7	582	508	542	523	437	470	507	496	501	424	413	420
8	555	529	543	498	456	482	512	498	507	444	423	436
9	582	554	565	518	498	507	519	506	513	456	435	447
10	601	568	587	518	500	512	567	519	551	440	431	435
11	631	597	610	518	351	437	586	565	578	448	433	441
12	639	609	627	474	402	445	574	530	558	443	432	437
13	644	611	632	478	386	435	530	491	509	445	431	437
14	649	610	631	461	405	437	492	464	477	432	273	384
15	650	611	633	484	461	478	479	458	472	325	273	298
16	647	607	629	497	484	493	469	394	424	333	260	313
17	607	545	571	499	488	494	448	408	432	338	260	300
18	642	502	556	499	481	490	446	278	337	357	167	323
19	652	616	637	500	480	493	300	242	273	318	174	264
20	651	604	628	499	478	490	373	300	340	361	318	341
21	604	567	575	498	484	491	404	373	389	383	361	372
22	604	575	589	502	490	496	426	404	417	405	383	393
23	626	594	610	499	399	466	436	426	433	407	159	358
24	625	587	610	453	403	428	446	435	442	292	153	227
25	624	600	615	479	453	470	454	445	451	344	292	320
26	626	609	619	492	479	484	462	453	457	366	344	355
27	615	468	556	505	486	493	460	456	458	379	366	371
28	544	450	504	510	495	503	463	458	460	397	379	389
29	586	522	549	503	488	497	465	456	461	405	397	402
30	578	566	572	504	490	498	475	463	468	413	404	410
31	604	577	586	---	---	---	474	454	464	422	413	419
MONTH	---	---	---	610	351	489	586	242	464	456	153	375

SALT RIVER BASIN

03301580 WILSON CREEK NEAR DEATSVILLE, KY--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	435	422	431	395	375	389	375	268	310	344	314	330
2	456	430	442	415	395	405	352	310	330	366	338	353
3	480	456	470	424	400	415	367	348	355	371	318	342
4	500	479	492	434	408	423	385	356	372	372	338	356
5	509	487	501	442	411	431	394	379	388	391	180	346
6	493	462	482	414	179	239	408	381	396	330	208	286
7	465	445	458	317	212	267	416	394	406	356	330	345
8	445	412	430	362	317	339	422	400	412	363	217	303
9	430	413	424	383	362	370	429	405	418	350	291	326
10	443	428	438	392	380	385	433	411	422	373	350	366
11	446	437	444	395	375	386	433	412	423	393	372	386
12	451	444	449	393	371	383	435	414	425	402	389	396
13	457	450	454	397	371	386	432	413	423	414	389	406
14	464	455	460	406	362	387	417	360	365	426	405	416
15	459	454	456	403	335	373	388	321	364	407	223	314
16	462	454	457	360	239	327	351	323	341	370	313	350
17	469	457	464	334	248	297	379	351	370	396	370	387
18	472	460	467	362	331	342	396	354	380	413	387	403
19	471	331	455	369	211	276	391	354	377	426	395	414
20	331	195	256	321	270	298	369	165	266	432	405	421
21	356	306	332	338	321	330	326	273	306	440	418	431
22	387	356	373	341	298	333	351	326	342	443	434	439
23	408	385	397	319	274	305	339	175	235	440	433	436
24	423	396	413	319	274	296	325	262	298	447	438	441
25	439	407	423	326	288	309	342	325	335	452	442	445
26	446	410	435	345	311	326	346	244	288	457	138	311
27	453	199	419	359	339	349	335	305	326	319	141	223
28	334	200	279	373	358	366	364	335	358	328	137	277
29	375	334	356	372	336	350	360	240	308	330	134	259
30	---	---	---	362	344	354	314	226	268	377	330	359
31	---	---	---	375	362	369	---	---	---	398	377	392
MONTH	509	195	426	442	179	349	435	165	354	457	134	363
	JUNE			JULY			AUGUST			SEPTEMBER		
1	413	398	408	461	438	451	405	370	389	496	489	493
2	418	408	413	460	437	450	428	405	419	498	494	496
3	426	414	422	462	438	452	442	420	432	501	497	498
4	434	421	429	464	440	453	453	433	443	---	---	---
5	437	428	434	464	443	453	455	444	450	---	---	---
6	442	434	438	464	450	456	462	444	453	---	---	---
7	440	397	411	467	424	459	465	451	458	---	---	---
8	407	114	299	428	218	307	468	455	460	---	---	---
9	311	194	273	421	369	400	469	455	462	---	---	---
10	352	268	317	440	421	429	475	465	470	---	---	---
11	379	352	371	454	431	444	471	458	468	---	---	---
12	378	297	340	458	435	446	470	403	430	---	---	---
13	398	356	384	464	439	453	412	405	409	---	---	---
14	415	398	411	466	412	455	430	406	418	---	---	---
15	427	415	423	412	175	305	441	426	432	---	---	---
16	435	422	429	431	375	411	457	440	446	---	---	---
17	438	427	433	445	431	436	463	449	453	366	354	359
18	440	404	434	452	439	446	469	456	460	355	352	353
19	430	168	392	458	406	447	472	459	464	358	349	352
20	391	210	334	431	391	414	472	463	468	---	---	---
21	424	391	416	449	431	442	473	462	469	---	---	---
22	440	424	434	464	440	453	479	465	473	---	---	---
23	446	434	441	443	425	434	487	473	477	---	---	---
24	447	439	444	450	433	442	487	481	483	---	---	---
25	441	431	436	461	439	451	491	482	486	---	---	---
26	447	435	439	467	447	457	493	488	490	---	---	---
27	451	441	446	463	448	456	494	481	491	---	---	---
28	454	441	449	465	451	459	490	486	488	---	---	---
29	454	438	448	464	456	460	491	486	489	---	---	---
30	456	435	448	468	459	464	492	486	489	---	---	---
31	---	---	---	459	353	397	495	489	491	---	---	---
MONTH	456	114	407	468	175	435	495	370	458	---	---	---

SALT RIVER BASIN

03301580 WILSON CREEK NEAR DEATSVILLE, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	6.9	6.6	6.7	7.2	6.9	7.0	8.1	7.8	7.9	8.1	7.8	7.9
2	6.8	6.7	6.8	7.9	6.9	7.4	8.1	7.8	7.9	7.9	7.7	7.8
3	6.9	6.8	6.9	7.9	7.8	7.9	7.9	7.8	7.9	8.0	7.7	7.8
4	7.0	6.9	6.9	8.0	7.9	7.9	8.0	7.8	7.9	8.1	7.7	7.9
5	7.2	7.0	7.1	8.0	7.9	7.9	8.0	7.8	7.9	8.1	7.8	7.9
6	7.5	6.8	7.1	8.0	7.9	7.9	8.0	7.8	7.9	8.1	7.8	7.9
7	7.2	6.5	6.8	7.9	7.9	7.9	8.0	7.8	7.9	8.1	7.8	7.9
8	6.8	6.3	6.6	8.0	7.8	7.9	7.9	7.9	7.9	8.1	7.8	7.9
9	6.8	6.4	6.6	7.9	7.8	7.9	8.0	7.8	7.9	8.1	7.8	8.0
10	6.8	6.3	6.4	8.0	7.8	7.9	7.9	7.8	7.9	8.1	7.8	8.0
11	6.6	6.2	6.4	7.9	7.7	7.8	7.9	7.8	7.9	8.1	7.9	8.0
12	6.5	6.3	6.4	7.9	7.7	7.8	8.0	7.8	7.9	8.2	7.9	8.0
13	6.6	6.4	6.5	7.9	7.7	7.8	7.9	7.8	7.9	8.3	7.9	8.1
14	6.7	6.5	6.5	7.9	7.7	7.8	8.0	7.8	7.9	8.2	7.7	7.9
15	6.9	6.6	6.7	8.0	7.8	7.9	7.9	7.8	7.8	8.1	7.7	7.8
16	6.7	6.6	6.7	8.0	7.8	7.9	8.0	7.8	7.9	8.2	7.6	7.8
17	6.8	6.6	6.7	8.1	7.8	7.9	8.0	7.8	7.9	8.3	7.6	7.9
18	6.8	6.6	6.7	8.1	7.8	7.9	7.9	7.6	7.7	8.2	7.5	7.9
19	7.1	6.6	6.7	8.2	7.8	8.0	7.7	7.6	7.6	7.8	7.5	7.7
20	7.1	6.7	6.7	8.1	7.8	8.0	7.8	7.6	7.7	7.9	7.7	7.8
21	7.1	6.8	6.9	8.1	7.8	8.0	7.9	7.7	7.8	8.0	7.8	7.9
22	6.9	6.7	6.8	8.1	7.9	8.0	8.0	7.8	7.9	8.1	7.9	8.0
23	7.2	6.7	6.8	8.0	7.7	7.8	8.0	7.9	7.9	8.0	7.6	7.9
24	7.1	6.7	6.8	8.0	7.7	7.8	7.9	7.8	7.9	7.7	7.5	7.6
25	7.2	6.8	6.9	8.0	7.7	7.8	8.0	7.8	7.9	7.9	7.7	7.8
26	7.0	6.8	6.8	8.0	7.7	7.9	8.0	7.8	7.9	8.0	7.8	7.9
27	7.0	6.3	6.7	7.9	7.7	7.8	8.0	7.8	7.9	8.0	7.9	8.0
28	6.8	6.0	6.4	8.1	7.8	7.9	8.0	7.9	7.9	8.0	7.9	8.0
29	7.1	5.8	6.5	8.1	7.8	7.9	8.0	7.9	8.0	8.1	8.0	8.0
30	7.1	6.5	6.9	8.1	7.8	7.9	8.1	7.9	8.0	8.1	8.0	8.0
31	7.4	7.0	7.1	---	---	---	8.0	7.9	7.9	8.2	8.0	8.1
MONTH	7.5	5.8	6.7	8.2	6.9	7.8	8.1	7.6	7.9	8.3	7.5	7.9
	FEBRUARY			MARCH			APRIL			MAY		
1	8.2	8.1	8.1	8.6	8.1	8.3	8.6	8.0	8.2	8.8	8.1	8.4
2	8.2	8.1	8.1	8.6	8.1	8.4	8.7	8.0	8.3	8.8	8.1	8.4
3	8.2	8.0	8.1	8.6	8.1	8.4	8.7	8.0	8.4	8.8	8.1	8.4
4	8.1	8.0	8.1	8.6	8.2	8.4	8.8	8.1	8.3	8.8	8.1	8.4
5	8.1	8.0	8.1	8.5	8.1	8.3	8.6	8.1	8.4	8.6	7.8	8.3
6	8.2	8.0	8.1	8.2	7.8	8.0	8.7	8.1	8.4	8.1	7.9	8.0
7	8.1	8.0	8.1	8.2	7.9	8.0	8.6	8.2	8.4	8.4	8.1	8.2
8	8.2	8.1	8.1	8.4	8.0	8.2	8.6	8.2	8.4	8.2	7.9	8.1
9	8.3	8.1	8.2	8.5	8.1	8.3	8.5	8.2	8.4	8.4	8.0	8.2
10	8.3	8.1	8.2	8.6	8.1	8.3	8.5	8.2	8.3	8.5	8.1	8.3
11	8.3	8.2	8.2	8.6	8.1	8.3	8.5	8.2	8.3	8.4	8.2	8.2
12	8.4	8.2	8.3	8.7	8.1	8.4	8.4	8.2	8.3	8.6	8.2	8.4
13	8.4	8.2	8.3	8.8	8.1	8.4	8.3	8.1	8.2	8.5	8.1	8.3
14	8.5	8.2	8.3	8.8	8.1	8.4	8.5	8.2	8.3	8.5	8.2	8.3
15	8.5	8.2	8.4	8.7	8.0	8.3	8.4	8.2	8.3	8.4	7.9	8.1
16	8.5	8.3	8.5	8.5	7.9	8.1	8.6	8.2	8.3	8.4	8.0	8.2
17	8.5	8.4	8.4	8.7	7.9	8.2	8.6	8.2	8.4	8.5	8.1	8.3
18	8.5	8.4	8.4	8.8	8.0	8.4	8.6	8.2	8.4	8.5	8.1	8.3
19	8.5	8.1	8.4	8.2	7.8	7.9	8.6	8.2	8.4	8.4	8.1	8.3
20	8.3	7.9	8.1	8.3	7.9	8.1	8.5	7.9	8.2	8.4	8.1	8.3
21	8.6	8.2	8.4	8.5	8.0	8.2	8.6	8.1	8.3	8.3	7.9	8.2
22	8.5	8.2	8.3	8.6	8.0	8.2	8.7	8.2	8.4	8.0	7.8	7.9
23	8.6	8.1	8.3	8.7	7.9	8.2	8.4	8.0	8.1	8.1	7.8	7.9
24	8.5	8.1	8.3	8.8	7.9	8.3	8.7	8.1	8.3	8.0	7.7	7.9
25	8.6	8.1	8.4	8.8	8.0	8.3	8.8	8.2	8.5	8.0	7.7	7.9
26	8.5	8.1	8.3	8.9	8.0	8.4	8.7	8.1	8.4	7.9	7.4	7.6
27	8.5	7.9	8.3	8.9	8.0	8.4	8.7	8.1	8.4	7.7	7.4	7.5
28	8.6	7.9	8.2	8.7	8.0	8.3	8.4	8.1	8.2	7.8	7.4	7.6
29	8.6	8.1	8.3	8.6	8.1	8.3	8.5	8.0	8.2	7.8	7.4	7.6
30	---	---	---	8.8	8.0	8.4	8.6	8.0	8.2	7.9	7.7	7.8
31	---	---	---	8.6	8.0	8.3	---	---	---	8.0	7.8	7.9
MONTH	8.6	7.9	8.3	8.9	7.8	8.3	8.8	7.9	8.3	8.8	7.4	8.1

SALT RIVER BASIN

03301580 WILSON CREEK NEAR DEATSVILLE, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX MIN MEAN			MAX MIN MEAN			MAX MIN MEAN			MAX MIN MEAN		
	JUNE			JULY			AUGUST			SEPTEMBER		
1	8.1	7.8	8.0	8.0	7.8	7.9	8.2	7.9	8.0	7.5	7.5	7.5
2	8.0	7.8	7.9	7.9	7.7	7.8	8.2	8.0	8.1	7.5	7.5	7.5
3	8.0	7.8	7.9	7.9	7.8	7.9	8.1	7.9	8.0	7.5	6.5	7.2
4	8.0	7.8	7.9	8.0	7.8	7.9	8.1	7.9	8.0	---	---	---
5	8.0	7.8	7.9	8.0	7.9	7.9	8.1	7.9	8.0	---	---	---
6	8.0	7.8	7.9	8.0	7.8	7.9	8.0	7.8	7.9	---	---	---
7	8.0	7.8	7.9	8.0	7.8	7.9	7.9	7.8	7.8	---	---	---
8	7.9	7.4	7.7	8.0	7.7	7.8	7.9	7.8	7.8	---	---	---
9	7.7	7.4	7.6	8.4	7.8	8.0	8.0	7.7	7.8	---	---	---
10	7.8	7.7	7.7	8.5	8.2	8.3	7.9	7.8	7.9	---	---	---
11	7.9	7.8	7.8	8.5	8.2	8.3	7.9	7.8	7.9	---	---	---
12	7.8	7.7	7.8	8.5	8.2	8.3	8.0	7.9	8.0	---	---	---
13	7.9	7.8	7.8	8.4	8.1	8.2	8.0	7.9	7.9	---	---	---
14	8.0	7.8	7.9	8.3	8.0	8.1	8.0	7.7	7.9	---	---	---
15	8.0	7.8	7.9	8.2	7.9	8.1	7.9	7.8	7.8	7.1	6.9	7.0
16	8.0	7.8	7.9	8.3	8.1	8.2	7.8	7.8	7.8	7.9	6.9	7.6
17	8.0	7.8	7.9	8.4	8.1	8.2	7.8	7.8	7.8	7.9	7.8	7.8
18	8.0	7.8	7.9	8.4	8.1	8.2	7.8	7.7	7.8	7.9	7.8	7.9
19	8.1	7.8	7.9	8.4	8.1	8.2	7.8	7.7	7.8	8.0	7.8	7.9
20	8.1	7.8	7.9	8.2	7.9	8.1	7.8	7.7	7.8	---	---	---
21	8.1	7.9	8.0	8.2	8.0	8.1	7.8	7.7	7.7	---	---	---
22	8.1	7.9	8.0	8.2	8.0	8.1	7.7	7.6	7.7	---	---	---
23	8.1	7.8	8.0	8.2	8.0	8.1	7.7	7.6	7.7	---	---	---
24	8.1	7.9	7.9	8.2	8.0	8.1	7.7	7.6	7.7	---	---	---
25	8.1	7.9	8.0	8.2	8.0	8.1	7.7	7.6	7.6	---	---	---
26	8.1	7.9	8.0	8.2	8.0	8.1	7.7	7.6	7.6	---	---	---
27	8.0	7.8	8.0	8.2	8.0	8.1	7.7	7.6	7.6	---	---	---
28	8.1	7.8	7.9	8.2	8.0	8.1	7.7	7.6	7.6	---	---	---
29	8.0	7.8	7.9	8.2	7.9	8.1	7.7	7.6	7.6	---	---	---
30	8.0	7.7	7.9	8.0	7.9	8.0	7.7	7.5	7.6	---	---	---
31	---	---	---	8.1	7.9	8.0	7.6	7.5	7.6	---	---	---
MONTH	8.1	7.4	7.9	8.5	7.7	8.1	8.2	7.5	7.8	---	---	---

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX MIN MEAN			MAX MIN MEAN			MAX MIN MEAN			MAX MIN MEAN		
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	18.7	15.7	17.2	16.1	14.9	15.5	8.2	4.2	5.7	6.8	4.8	5.9
2	19.7	16.7	18.2	18.2	15.7	16.6	8.1	4.2	5.9	6.7	5.1	6.0
3	19.4	18.6	19.0	15.7	8.7	12.1	8.2	5.7	7.0	5.1	2.8	3.6
4	19.2	17.8	18.6	9.4	5.8	7.4	7.9	5.0	6.4	3.4	2.1	2.8
5	19.2	18.5	19.0	5.8	3.8	4.7	6.8	4.3	5.4	3.6	2.2	3.2
6	19.4	18.5	18.8	7.2	3.3	5.1	6.0	3.7	4.6	2.2	.2	1.1
7	18.5	16.4	17.6	10.5	7.2	9.1	4.8	2.2	3.6	.5	.4	.5
8	17.0	14.2	15.8	9.0	5.6	7.4	2.2	.7	1.4	.5	.3	.4
9	17.2	13.5	15.4	7.3	4.2	5.5	2.1	.4	1.5	.5	.2	.4
10	17.6	13.7	15.7	8.8	5.7	7.0	1.6	.3	.7	1.0	.2	.5
11	17.9	14.3	16.2	10.3	6.5	8.9	1.1	.3	.5	1.5	.2	.7
12	18.0	14.2	16.3	6.5	4.4	5.7	1.0	.3	.5	2.1	1.1	1.6
13	17.0	14.2	15.7	8.7	5.9	7.2	1.6	.5	1.0	4.4	1.7	2.8
14	17.2	13.6	16.3	8.5	6.4	7.5	7.4	1.6	4.5	4.6	1.6	3.0
15	15.2	10.4	12.9	6.6	4.3	5.5	8.4	6.6	7.4	5.3	2.9	4.0
16	15.1	10.1	12.5	6.1	4.7	5.3	8.1	6.2	7.3	6.7	3.6	5.0
17	15.2	9.7	12.4	8.2	5.2	6.5	6.2	4.4	5.5	9.3	6.7	7.8
18	16.0	11.0	13.5	8.6	7.2	8.0	8.1	6.1	7.2	10.7	7.0	9.0
19	16.5	12.1	14.5	10.0	7.1	8.1	8.1	5.7	7.3	7.0	1.6	3.6
20	15.3	12.9	14.5	9.2	5.2	7.0	5.7	3.7	4.5	3.4	1.2	2.2
21	13.0	10.8	12.3	8.2	4.7	6.5	4.1	3.3	3.7	4.8	2.8	3.7
22	14.3	8.5	11.4	5.7	2.4	4.0	4.3	3.3	3.8	5.4	2.4	4.0
23	15.3	10.5	13.0	6.9	4.3	5.6	3.6	2.0	2.9	6.3	5.3	5.7
24	16.2	12.4	14.7	6.2	4.4	5.3	2.5	1.3	1.9	6.3	3.5	5.1
25	14.3	9.1	11.8	5.9	3.0	4.5	2.4	1.1	1.9	5.0	2.2	3.6
26	13.7	11.3	12.5	8.1	4.0	6.1	1.1	.2	.7	6.8	3.2	4.7
27	14.1	12.8	13.4	10.3	7.7	8.9	2.5	.4	1.5	6.9	2.2	4.4
28	14.1	12.5	13.1	9.5	6.0	7.4	1.2	.2	.7	3.6	.4	2.1
29	14.5	11.4	12.9	7.4	4.2	5.7	3.5	1.1	1.8	6.0	3.6	4.6
30	12.7	11.7	12.3	5.5	2.2	3.8	2.6	.2	1.3	4.6	1.9	2.8
31	15.3	12.5	13.9	---	---	---	4.8	2.3	3.4	1.9	.3	1.0
MONTH	19.7	8.5	14.9	18.2	2.2	7.3	8.4	.2	3.6	10.7	.2	3.4

SALT RIVER BASIN

03301580 WILSON CREEK NEAR DEATSVILLE, KY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	.6	.4	.5	6.3	2.0	4.3	11.3	7.9	9.5	15.2	9.7	12.1
2	.6	.5	.6	6.0	2.9	4.4	13.4	6.1	9.4	17.0	10.3	13.4
3	.6	.3	.5	4.2	1.1	3.0	15.8	7.2	11.3	19.6	12.5	15.7
4	.6	.3	.5	6.5	.5	3.6	13.2	9.6	11.6	19.1	15.0	16.9
5	.6	.3	.5	8.8	6.4	7.5	9.6	7.1	8.1	19.3	15.2	17.0
6	.6	.3	.5	10.3	7.1	8.7	10.4	5.3	7.7	15.5	14.4	14.8
7	.6	.5	.6	7.1	4.0	5.4	9.7	4.5	7.4	16.9	13.5	14.9
8	.6	.5	.6	4.6	1.8	3.2	9.7	7.0	8.3	17.2	14.8	15.7
9	1.8	.4	1.1	5.6	.9	2.9	9.6	4.5	7.4	20.5	13.9	16.8
10	7.1	1.0	3.7	6.7	.9	3.7	12.4	4.5	8.7	21.3	15.0	18.0
11	7.0	3.4	5.1	8.2	1.7	4.8	14.7	6.4	10.8	19.5	14.0	16.2
12	3.7	2.3	2.9	9.1	2.6	5.8	19.1	10.9	14.9	16.2	12.3	14.2
13	5.5	1.8	3.4	10.6	4.0	7.3	17.4	12.0	14.3	14.6	11.8	12.7
14	6.2	3.7	4.9	13.3	7.3	10.3	14.3	10.1	12.0	16.1	9.0	12.4
15	5.5	3.5	4.4	12.2	9.0	10.7	13.5	10.0	11.8	15.8	12.9	14.5
16	3.6	1.2	2.5	9.0	6.5	7.9	14.2	8.5	11.0	18.4	14.7	16.1
17	2.5	.2	1.2	11.8	8.2	9.5	16.1	7.2	11.6	21.5	15.2	18.1
18	4.3	.2	2.0	11.5	6.6	9.0	17.4	9.7	13.8	23.0	16.8	19.9
19	4.2	1.7	2.7	8.9	5.3	6.7	18.0	14.4	16.1	23.4	18.1	21.0
20	7.2	4.2	5.5	6.5	4.9	5.6	17.3	13.1	15.4	23.8	19.2	21.6
21	9.2	4.7	6.7	7.1	5.2	5.9	18.1	12.0	14.8	22.5	19.3	20.3
22	10.4	7.0	8.6	9.8	3.6	6.2	18.1	13.6	15.7	21.8	16.2	18.9
23	13.1	8.2	10.5	10.8	4.2	7.1	16.5	11.6	13.6	22.0	16.2	19.1
24	11.6	7.1	9.2	13.1	6.0	9.2	16.6	9.2	12.4	24.1	19.0	21.3
25	9.5	5.1	7.5	12.7	7.8	10.4	17.7	11.5	14.2	22.5	19.6	20.9
26	11.1	8.7	9.8	10.6	5.7	7.8	15.6	12.0	13.9	21.0	17.0	18.7
27	13.4	10.4	11.6	10.6	4.6	7.5	16.8	8.7	12.3	17.9	16.5	17.1
28	10.6	5.5	8.4	9.5	7.8	8.7	14.6	11.3	12.1	19.7	15.8	17.4
29	6.2	3.4	4.8	10.3	8.7	9.4	16.3	11.8	13.5	18.4	15.9	17.1
30	---	---	---	12.7	9.3	10.7	14.2	10.7	12.3	18.5	14.7	16.6
31	---	---	---	12.0	9.3	10.7	---	---	---	19.0	13.7	16.4
MONTH	13.4	.2	4.2	13.3	.5	7.0	19.1	4.5	11.9	24.1	9.0	17.0
	JUNE			JULY			AUGUST			SEPTEMBER		
1	18.3	15.8	17.2	28.7	23.7	26.0	24.4	19.0	21.4	24.3	20.8	22.4
2	17.9	16.4	16.9	28.6	24.3	26.2	24.1	20.3	22.1	24.3	21.4	22.8
3	20.3	16.4	18.0	26.7	22.7	24.6	25.0	20.6	22.6	23.5	22.1	22.8
4	18.8	16.1	17.6	24.8	19.9	22.4	26.7	21.2	23.6	---	---	---
5	20.1	14.6	17.4	25.5	19.9	22.5	27.0	22.5	24.6	---	---	---
6	19.6	17.0	18.4	26.4	19.9	22.8	28.2	23.5	25.7	---	---	---
7	19.3	18.2	18.6	26.5	21.6	23.8	28.6	24.6	26.6	---	---	---
8	18.2	16.2	17.0	24.6	21.3	22.2	27.8	25.2	26.3	---	---	---
9	18.2	15.8	16.6	24.7	21.2	22.7	26.0	23.0	24.7	---	---	---
10	18.1	15.7	16.8	24.5	19.0	21.5	24.8	21.7	23.3	---	---	---
11	18.5	16.0	17.0	22.6	18.5	20.4	23.7	21.9	22.4	---	---	---
12	19.3	16.1	17.6	24.8	19.4	21.7	23.8	20.8	22.0	---	---	---
13	20.5	16.5	18.4	24.8	21.7	23.1	25.3	20.7	22.7	---	---	---
14	22.3	17.6	19.9	24.8	21.7	23.1	25.5	21.2	23.3	---	---	---
15	22.9	18.6	20.8	23.1	20.0	21.4	24.6	21.7	22.9	19.2	14.4	17.0
16	23.2	19.3	21.5	24.8	19.5	22.0	25.4	21.8	23.3	20.2	18.0	18.8
17	24.1	20.3	22.3	26.0	20.7	23.0	24.4	22.4	23.5	19.9	18.7	19.2
18	23.7	21.1	22.5	26.9	22.4	24.3	25.8	22.6	24.0	19.8	17.3	18.6
19	24.5	20.3	22.1	27.6	23.7	25.3	26.9	23.3	25.0	20.4	16.6	18.4
20	23.6	19.7	21.5	25.5	23.4	23.8	27.1	23.8	25.4	---	---	---
21	24.4	20.3	22.4	24.6	21.4	22.8	26.5	24.2	25.5	---	---	---
22	25.4	21.5	23.5	23.7	22.6	23.1	27.7	24.5	26.0	---	---	---
23	27.1	23.0	24.8	25.3	20.6	22.7	27.5	24.7	26.1	---	---	---
24	27.5	23.4	25.0	26.8	21.1	23.6	26.5	24.6	25.3	---	---	---
25	26.3	22.2	23.9	25.2	22.2	23.5	25.1	22.2	23.7	---	---	---
26	24.7	19.8	22.0	24.8	20.1	22.4	24.8	21.3	22.9	---	---	---
27	25.4	19.0	21.6	25.5	20.5	22.8	24.5	22.6	23.5	---	---	---
28	26.4	20.0	22.7	24.4	21.1	22.3	25.0	21.9	23.2	---	---	---
29	27.4	21.3	23.9	23.5	21.0	22.2	24.9	21.9	23.4	---	---	---
30	28.7	22.5	25.2	23.0	21.6	22.3	24.7	22.0	23.3	---	---	---
31	---	---	---	23.1	21.2	22.1	24.1	21.2	22.6	---	---	---
MONTH	28.7	14.6	20.4	28.7	18.5	23.0	28.6	19.0	23.9	---	---	---

SALT RIVER BASIN

03301580 WILSON CREEK NEAR DEATSVILLE, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	16.6	13.0	14.6	15.3	12.6	13.9
2	---	---	---	---	---	---	16.7	12.7	14.3	13.6	12.5	13.1
3	---	---	---	11.3	8.3	10.2	13.6	11.6	12.5	16.9	13.6	15.5
4	---	---	---	13.5	11.3	12.8	16.3	11.3	13.7	18.1	15.3	16.5
5	---	---	---	15.5	13.3	14.6	16.2	13.2	14.4	18.0	15.1	16.2
6	---	---	---	15.5	12.8	14.6	17.7	13.0	15.1	20.0	16.2	17.8
7	---	---	---	12.8	10.9	11.3	18.7	14.1	16.2	20.1	16.3	17.8
8	---	---	---	14.0	11.0	12.7	18.9	16.2	17.4	21.5	16.3	18.4
9	---	---	---	15.6	13.2	14.3	20.5	15.7	18.1	22.0	16.4	18.4
10	---	---	---	14.3	11.4	13.1	22.2	17.3	19.6	22.4	16.5	18.7
11	---	---	---	12.5	10.3	11.3	20.8	16.9	18.8	21.1	16.7	18.1
12	---	---	---	15.3	12.5	13.9	19.6	16.5	18.0	20.2	16.6	17.9
13	---	---	---	13.5	11.4	12.5	18.2	16.2	17.2	20.6	15.3	17.4
14	---	---	---	14.0	11.4	12.6	16.8	13.2	15.2	19.5	14.7	16.7
15	---	---	---	15.9	12.6	14.2	13.2	11.4	12.1	17.5	14.4	15.7
16	---	---	---	16.0	13.4	14.3	13.4	11.4	12.4	16.9	13.1	14.9
17	---	---	---	16.3	11.7	14.0	15.7	12.5	13.9	15.3	11.7	13.1
18	---	---	---	14.8	11.3	12.6	12.7	11.7	12.2	14.7	11.4	12.3
19	---	---	---	16.5	11.2	13.2	13.1	11.6	12.1	16.9	13.1	15.5
20	---	---	---	17.5	12.0	14.0	15.2	13.1	14.4	17.5	15.6	16.7
21	---	---	---	17.9	11.7	14.1	15.9	14.5	15.1	16.2	14.5	15.4
22	---	---	---	20.1	13.6	16.1	16.4	14.5	15.2	16.4	13.3	15.1
23	---	---	---	14.7	12.2	13.2	17.2	14.8	16.1	13.6	12.7	13.2
24	---	---	---	16.7	12.4	14.3	18.5	16.2	17.1	14.4	12.5	13.4
25	---	---	---	18.0	13.3	15.2	18.3	16.3	17.0	15.8	13.5	14.6
26	---	---	---	17.4	11.3	14.1	20.4	16.5	17.9	14.6	11.7	13.6
27	---	---	---	11.8	10.0	10.9	19.8	16.6	17.6	15.1	11.7	13.7
28	---	---	---	16.0	10.0	12.7	20.1	16.8	18.1	17.1	13.7	15.4
29	---	---	---	17.0	12.5	14.4	20.5	17.1	18.1	13.9	12.3	13.3
30	---	---	---	18.0	14.2	15.8	21.7	16.3	18.2	15.8	12.7	14.4
31	---	---	---	---	---	---	16.5	13.9	15.5	17.5	14.8	15.9
MONTH	---	---	---	---	---	---	22.2	11.3	15.7	22.4	11.4	15.6
	FEBRUARY			MARCH			APRIL			MAY		
1	16.4	14.9	15.5	13.6	10.7	12.1	11.1	8.4	9.9	13.1	9.0	11.1
2	16.5	14.8	15.5	13.3	10.9	11.9	13.2	8.7	10.6	13.9	8.0	10.7
3	17.1	14.7	15.7	14.8	11.0	13.1	12.4	7.9	9.9	12.5	7.3	9.6
4	17.8	14.5	15.7	15.3	10.2	13.1	11.6	8.1	9.5	11.5	7.3	9.0
5	17.7	14.3	15.5	10.4	8.8	9.8	13.0	9.5	11.3	11.1	7.1	8.6
6	17.9	13.9	15.1	10.0	8.8	9.4	13.1	10.2	11.7	9.5	8.8	9.1
7	14.3	13.4	13.8	11.7	10.0	11.0	13.3	10.1	11.7	10.3	8.2	9.2
8	14.0	12.9	13.4	13.7	11.4	12.6	12.5	10.1	11.2	9.8	8.2	8.9
9	16.4	12.9	14.0	14.5	11.7	13.0	13.2	10.5	11.8	10.2	7.5	8.9
10	15.0	8.8	12.4	14.8	11.0	12.8	13.0	9.3	11.3	10.1	7.1	8.6
11	12.4	8.8	10.7	14.3	10.3	12.2	12.0	8.1	10.3	9.5	7.1	8.4
12	15.0	11.4	12.7	14.0	9.8	11.8	10.2	7.0	8.8	11.2	8.7	9.9
13	15.2	11.1	12.9	13.8	8.9	11.3	9.2	6.9	8.2	11.9	8.7	10.4
14	13.0	10.0	11.5	13.3	7.7	10.2	10.7	8.7	9.8	12.8	8.3	10.8
15	13.4	9.8	11.7	10.6	7.7	9.0	10.1	8.9	9.5	10.5	8.3	9.4
16	14.6	11.3	13.3	12.9	9.0	10.4	11.3	9.5	10.4	10.2	7.9	9.1
17	15.8	12.7	13.8	11.6	8.8	10.0	12.0	8.4	10.3	10.1	7.1	8.7
18	15.2	12.3	13.4	13.5	8.9	10.6	11.0	7.8	9.8	9.9	6.5	8.0
19	13.2	10.2	12.0	11.0	9.0	10.3	9.9	7.7	8.7	9.9	6.3	7.8
20	10.4	8.7	9.6	11.9	10.9	11.3	10.4	7.5	9.2	9.5	6.1	7.6
21	10.2	7.3	9.0	12.6	10.9	11.5	11.1	8.3	9.8	10.7	6.2	8.1
22	10.8	7.5	8.8	13.6	10.5	11.8	10.3	8.0	9.1	11.4	8.1	9.5
23	10.6	7.7	9.3	13.4	9.9	11.5	10.8	8.1	10.0	11.4	7.7	9.2
24	11.5	7.8	9.7	12.8	8.6	10.6	12.3	9.0	10.8	10.4	7.1	8.4
25	12.6	8.7	10.7	11.3	8.8	9.9	11.5	8.2	10.0	10.3	6.7	8.2
26	10.4	7.9	8.8	14.7	10.0	11.7	11.1	8.2	9.9	10.4	7.1	8.9
27	10.2	7.4	8.6	15.2	9.4	12.0	13.4	8.6	11.1	10.2	9.4	9.9
28	10.8	8.7	9.8	12.9	9.2	10.6	11.4	8.6	10.2	10.2	8.6	9.7
29	13.0	10.5	11.7	11.6	9.2	10.1	11.1	9.2	9.9	10.2	9.1	9.7
30	---	---	---	12.6	8.6	10.2	12.3	9.6	10.8	10.6	8.7	9.7
31	---	---	---	11.5	8.4	9.7	---	---	---	11.1	8.4	9.8
MONTH	17.9	7.3	12.2	15.3	7.7	11.1	13.4	6.9	10.2	13.9	6.1	9.2

SALT RIVER BASIN

03301580 WILSON CREEK NEAR DEATSVILLE, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	10.6	8.4	9.5	9.2	6.1	7.3	9.2	7.3	8.2	6.9	5.0	5.8
2	9.7	8.5	9.1	8.9	5.9	7.1	9.3	7.2	8.1	6.0	4.6	5.2
3	10.2	8.2	9.3	8.8	6.1	7.3	8.9	6.8	7.8	4.7	3.0	3.8
4	10.7	8.2	9.4	9.4	6.9	8.1	8.1	6.3	7.5	---	---	---
5	11.2	8.3	9.6	8.7	7.2	7.9	8.0	6.3	7.2	---	---	---
6	10.9	8.0	9.2	8.6	7.0	7.7	7.5	6.3	6.9	---	---	---
7	9.6	7.9	8.8	8.3	6.6	7.5	6.8	6.0	6.4	---	---	---
8	10.5	8.8	9.8	8.8	7.1	7.6	6.3	5.6	5.9	---	---	---
9	10.6	9.5	10.2	9.3	6.9	7.9	7.7	5.5	6.3	---	---	---
10	10.4	9.3	10.0	9.1	6.9	7.8	7.5	6.2	6.7	---	---	---
11	10.1	8.9	9.5	10.1	6.9	8.3	8.0	5.9	6.9	---	---	---
12	10.1	8.8	9.5	9.5	6.9	8.2	8.7	7.4	8.0	---	---	---
13	10.0	8.1	9.2	8.5	6.3	7.2	8.4	6.9	7.7	---	---	---
14	9.9	7.7	8.8	8.4	5.9	7.0	8.2	7.0	7.5	---	---	---
15	9.9	7.5	8.6	9.6	7.0	8.7	8.1	6.7	7.3	12.7	11.4	11.9
16	10.0	7.1	8.4	9.3	7.2	8.2	7.7	6.8	7.2	11.6	4.8	7.8
17	10.0	7.0	8.3	9.4	6.9	8.0	7.6	6.5	7.1	7.4	6.5	6.9
18	9.7	6.8	8.0	9.2	6.3	7.5	7.5	6.4	6.9	7.2	6.6	6.9
19	9.7	7.1	8.4	8.8	5.4	6.8	7.5	6.1	6.7	7.2	6.0	6.8
20	9.7	7.3	8.8	8.1	5.7	6.6	7.4	5.7	6.3	---	---	---
21	10.0	7.0	8.4	8.9	6.2	7.2	7.0	5.3	5.9	---	---	---
22	10.1	6.8	8.2	8.7	6.2	7.3	6.8	5.4	6.0	---	---	---
23	9.4	6.5	7.6	9.6	6.5	7.7	6.7	5.5	6.1	---	---	---
24	8.7	6.0	7.0	9.0	6.1	7.3	6.4	5.3	5.8	---	---	---
25	9.3	6.4	7.6	9.0	5.7	7.0	6.3	5.5	5.8	---	---	---
26	10.0	6.4	8.1	9.0	6.4	7.5	6.8	5.5	6.1	---	---	---
27	10.1	7.2	8.3	8.9	6.5	7.6	7.0	5.4	6.1	---	---	---
28	10.2	7.1	8.2	8.8	6.3	7.5	6.9	5.6	6.2	---	---	---
29	9.4	6.5	7.8	8.4	6.4	7.5	7.3	5.6	6.2	---	---	---
30	9.0	6.2	7.4	8.0	6.4	7.2	7.0	5.5	6.2	---	---	---
31	---	---	---	9.1	6.7	8.0	6.5	5.5	6.0	---	---	---
MONTH	11.2	6.0	8.7	10.1	5.4	7.6	9.3	5.3	6.7	---	---	---

SALT RIVER BASIN

03301880 SOUTHERN DITCH AT MINORS LANE NEAR OKOLONA, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°08'04", long 85°42'34", Jefferson County, Hydrologic Unit 05140102, at bridge on Minors Lane, 0.2 mi below Mud Creek, and at mile 4.2.

DRAINAGE AREA.--12.8 mi².

PERIOD OF RECORD.--February 1988 to current year.

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT						
16...	1040	0.60	783	7.5	12.0	8.6
NOV						
06...	1015	1.7	520	7.9	4.0	11.8
DEC						
11...	1150	1.5	1020	7.6	1.5	14.9
FEB						
05...	1110	2.9	783	7.4	0.5	14.6
MAR						
11...	1115	15	601	7.8	6.0	13.7
APR						
08...	1220	6.9	606	8.1	4.0	11.6
MAY						
06...	1030	28	475	7.5	16.5	8.1
JUL						
17...	1145	1.9	580	7.7	27.0	6.0
SEP						
11...	1220	0.96	481	7.4	25.0	3.8

SALT RIVER BASIN
03301885 SLOP DITCH NEAR OKOLONA, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°08'40", long 85°43'15", Jefferson County, Hydrologic Unit 05140102, at bridge on service road at Outer Loop landfill.

DRAINAGE AREA.--1.4 mi².

PERIOD OF RECORD.--April 1994 to present (discontinued).

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 23...	1210	0.41	622	7.5	14.0	7.9
NOV 13...	1330	6.9	368	7.3	5.5	10.7
JAN 22...	0850	1.4	946	6.9	2.0	11.5
FEB 12...	1330	0.48	1160	7.6	4.0	15.8
MAR 18...	1235	1.9	626	7.9	14.0	12.8
APR 15...	1245	3.0	650	7.5	15.0	9.3
MAY 20...	1230	0.54	666	7.7	29.0	7.5
JUL 17...	1240	0.38	574	7.7	31.0	7.1

SALT RIVER BASIN

03301900 FERN CREEK AT OLD BARDSTOWN ROAD AT LOUISVILLE, KY

WATER-QUALITY RECORDS

LOCATION.-- Lat 38°10'32", long 85°36'55", Jefferson County, Hydrologic Unit 05140102, at bridge on Old Bardstown Road, and at mile 3.2.

DRAINAGE AREA.--3.5 mi².

PERIOD OF RECORD.--February 1988 to current year.

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 23...	1105	3.6	742	7.7	13.0	8.7
NOV 21...	1220	3.6	516	8.4	9.0	16.5
DEC 13...	1320	1.5	708	7.6	6.0	12.2
FEB 21...	1210	8.4	672	8.1	10.5	11.3
MAR 13...	0835	8.4	682	8.1	7.0	11.1
APR 10...	1245	4.8	658	8.5	14.5	15.0
MAY 29...	1300	31	505	7.8	18.5	8.2
JUL 24...	1310	1.8	693	8.2	22.5	9.2
SEP 12...	1225	1.4	622	8.0	20.5	8.4

SALT RIVER BASIN

03301940 NORTHERN DITCH AT OKOLONA, KY

WATER-QUALITY RECORDS

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.--February 1988 to current year.

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 16...	0925	6.0	712	7.9	10.0	13.2
NOV 08...	0915	8.2	689	8.3	6.0	16.7
DEC 11...	1020	2.9	816	8.0	0.0	18.6
FEB 07...	0915	8.9	772	7.6	0.0	11.9
MAR 11...	1015	23	618	8.1	6.0	14.1
APR 08...	1025	16	605	8.5	9.0	15.8
MAY 08...	0945	62	511	7.8	16.0	8.3
JUL 15...	1020	28	380	7.9	23.5	8.7
SEP 11...	1100	3.5	463	8.4	23.0	12.7

SALT RIVER BASIN

03301950 SPRING DITCH AT PRIVATE DRIVE NEAR OKOLONA, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°09'27", long 85°40'57", Jefferson County, Hydrologic Unit 05140102, at bridge on Private Drive, and at mile 1.0.

DRAINAGE AREA.--1.6 mi².

PERIOD OF RECORD.--February 1988 to current year.

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 16...	0835	0.12	759	7.5	9.5	7.5
NOV 06...	0850	0.40	503	7.6	7.0	11.9
DEC 11...	0915	0.14	735	7.1	0.0	13.3
FEB 05...	0900	0.78	880	7.3	0.5	11.9
MAR 11...	0850	2.9	678	7.5	7.5	15.4
APR 08...	0850	1.6	710	7.5	9.0	13.4
MAY 06...	0850	14	376	7.3	16.5	6.4
JUL 15...	0910	8.8	347	7.4	23.0	6.4
SEP 16...	1145	11	259	7.1	20.0	7.4

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 Rd, right bank, 0.4 mi south of Third Street Rd, 0.6 mi downstream from Bee Lick Creek, 1.5 mi downstream from confluence of Northern and Southern Ditches, 2.4 mi south of Louisville city limits, and at mile 15.4.

DRAINAGE AREA.--64.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1944 to current year.

REVISED RECORDS.--WSP 1705: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 430.38 ft above sea level. See WDR KY-90-1 for history of changes prior to Nov. 16, 1962.

REMARKS.--Estimated daily discharges: Dec. 9-11, 26, Jan. 6-12, Jan. 31-Feb. 7, May 23-25, and Sept. 16-24. Water-discharge records good, except for periods of estimated record, which are fair.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996--DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	16	11	56	40	78	642	209	108	10	8.2	6.0
2	2.8	66	11	259	35	62	202	134	160	22	18	5.7
3	101	96	10	249	31	46	133	109	96	50	25	8.9
4	54	28	11	96	27	36	107	513	62	14	9.4	8.8
5	1050	19	10	69	24	63	87	358	45	10	7.3	7.4
6	268	16	9.8	60	22	1220	66	445	63	8.9	6.9	7.6
7	63	62	9.4	54	25	374	58	164	214	13	6.8	36
8	37	28	9.5	51	31	185	50	322	560	57	188	23
9	26	19	9.2	46	41	119	41	179	621	14	108	121
10	20	16	8.8	52	27	94	34	238	479	9.2	22	58
11	16	209	8.5	55	27	79	31	1180	953	7.8	13	16
12	13	69	10	59	23	70	28	275	901	7.9	13	12
13	11	108	11	66	19	60	96	149	231	19	13	8.3
14	10	63	12	152	20	50	105	104	135	77	9.5	6.8
15	9.8	36	118	184	21	226	90	442	90	330	7.9	6.2
16	9.0	25	311	149	17	179	67	166	69	23	7.9	450
17	8.4	21	73	208	15	202	43	104	57	11	8.5	80
18	8.7	18	517	398	15	104	35	72	91	8.5	6.8	35
19	8.2	16	714	958	95	888	51	52	107	17	6.7	20
20	50	14	206	159	609	639	593	40	67	8.3	8.9	15
21	22	14	109	108	156	301	158	32	37	262	27	35
22	11	13	76	88	109	206	208	25	29	174	19	30
23	9.0	32	56	451	82	183	713	22	25	33	11	25
24	15	17	42	1680	60	149	275	19	22	18	9.9	21
25	11	13	34	225	48	183	150	33	22	13	9.7	19
26	9.4	12	28	160	50	109	296	2690	23	11	6.8	18
27	200	13	24	137	240	79	123	2060	19	9.2	6.7	450
28	122	20	20	87	401	115	221	1120	15	8.2	6.0	613
29	37	13	18	74	112	233	963	2210	13	22	5.6	112
30	21	11	17	59	---	114	622	289	11	18	6.8	61
31	16	---	41	48	---	134	---	165	---	11	7.4	---
TOTAL	2242.2	1103	2545.2	6497	2422	6580	6288	13920	5325	1297.0	610.7	2315.7
MEAN	72.3	36.8	82.1	210	83.5	212	210	449	177	41.8	19.7	77.2
MAX	1050	209	714	1680	609	1220	963	2690	953	330	188	613
MIN	2.8	11	8.5	46	15	36	28	19	11	7.8	5.6	5.7
CFSM	1.13	.57	1.28	3.27	1.30	3.32	3.27	7.02	2.77	.65	.31	1.21
IN.	1.30	.64	1.48	3.78	1.41	3.82	3.65	8.09	3.10	.75	.35	1.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1996, BY WATER YEAR (WY)

MEAN	28.1	59.3	97.8	130	159	181	135	112	62.5	46.6	35.2	32.7
MAX	117	256	310	614	454	738	551	505	304	282	186	399
(WY)	1976	1974	1979	1950	1989	1964	1970	1983	1950	1973	1992	1979
MIN	1.76	2.60	4.48	8.52	10.1	11.4	22.0	10.6	4.54	2.96	.78	1.15
(WY)	1947	1945	1954	1977	1954	1954	1954	1954	1954	1952	1945	1945

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1944 - 1996
ANNUAL TOTAL	30555.4	51145.8	
ANNUAL MEAN	83.7	140	89.8
HIGHEST ANNUAL MEAN			159
LOWEST ANNUAL MEAN			11.4
HIGHEST DAILY MEAN	3060 May 18	2690 May 26	6340 Mar 10 1964
LOWEST DAILY MEAN	2.8 Oct 2	2.8 Oct 2	.10 Sep 3 1945
ANNUAL SEVEN-DAY MINIMUM	3.2 Sep 2	6.3 Aug 27	.19 Sep 17 1945
INSTANTANEOUS PEAK FLOW		5010 Feb 26	8020 Mar 9 1964
INSTANTANEOUS PEAK STAGE		21.01 May 26	22.69 Mar 9 1964
INSTANTANEOUS LOW FLOW			.10 Sep 3 1945
ANNUAL RUNOFF (CFSM)	1.31	2.18	1.40
ANNUAL RUNOFF (INCHES)	17.76	29.73	19.05
10 PERCENT EXCEEDS	181	324	189
50 PERCENT EXCEEDS	20	41	26
90 PERCENT EXCEEDS	5.3	8.9	5.6

SALT RIVER BASIN

03302000 POND CREEK NEAR LOUISVILLE, KY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1988 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1988 to September 1992.

pH: May 1988 to September 1992.

WATER TEMPERATURE: May 1988 to September 1992.

DISSOLVED OXYGEN: June 1988 to September 1992.

REMARKS.--Water-quality samples collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1200 microsiemens, Nov. 4, 1988; minimum, 129 microsiemens, Mar. 6, 1989.

pH: Maximum, 10.1 units, Apr. 16, 17, 18, 1991; minimum, 4.5 units, Oct. 18, 1990.

WATER TEMPERATURE: Maximum, 34.0°C, July 15-17 and Aug. 2, 4, and 16, 1988; minimum, 0.0°C, Jan. 22, 23, 1991, and Dec. 19, 1992.

DISSOLVED OXYGEN: Maximum, 20.1 mg/L, June 30, 1991; minimum, 0.7 mg/L, July 3, 1991.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE- WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 16...	1140	8.9	735	7.9	13.5	9.8
NOV 06...	1150	16	493	7.9	4.5	10.8
DEC 11...	1320	8.3	936	8.2	0.5	16.8
FEB 05...	1245	24	885	7.2	0.5	10.6
MAR 11...	1250	72	620	7.9	6.0	11.8
APR 08...	1315	41	595	8.5	9.0	10.9
MAY 06...	1220	231	384	7.3	17.0	6.3
JUL 15...	1140	150	340	7.6	24.0	5.0
SEP 16...	1250	385	272	7.2	19.0	6.2

SALT RIVER BASIN

03302030 POND CREEK AT PENDLETON ROAD NEAR LOUISVILLE, KY

WATER-QUALITY RECORDS

LOCATION.--Lat 38°03'15", long 85°52'18", Jefferson County, Hydrologic Unit 05140102, at bridge on Pendleton Road, 1.3 mi above Brier Creek and at mile 7.1.

DRAINAGE AREA.--80.3 mi².

PERIOD OF RECORD.--February 1988 to current year.

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 17...	0910	7.4	685	7.8	11.5	10.2
NOV 07...	0825	66	545	7.9	7.5	10.6
DEC 12...	0855	7.7	773	8.4	0.0	16.7
FEB 06...	0910	--	960	7.4	0.0	10.9
MAR 12...	0855	83	575	7.9	4.5	11.0
APR 19...	0905	46	564	8.2	7.0	11.1
JUL 16...	0930	--	349	7.6	24.0	5.9
SEP 04...	0910	15	587	7.5	23.0	6.6

SALT RIVER BASIN

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

WATER-QUALITY RECORDS

LOCATION.--Lat 37°56'37", long 86°01'47", Mead County, Hydrologic Unit 05140104, 1.4 mi east of Rock Haven, and at mile 3.3.

DRAINAGE AREA.--99.2 mi².

PERIOD OF RECORD.--January 1993 to current year.

REMARKS.--Samples were collected monthly.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 26...	0930	--	513	7.8	11.5	9.2
NOV 27...	0925	49	351	8.0	10.0	13.5
JAN 18...	0855	279	367	7.5	12.0	10.4
FEB 13...	0915	62	496	8.2	5.5	12.2
MAR 25...	0855	1170	349	7.6	13.0	10.2
APR 18...	0910	102	419	8.1	11.5	12.0
MAY 21...	1005	98	440	8.2	19.0	9.9
JUL 25...	0925	82	391	8.3	19.5	9.0
SEP 03...	0905	26	497	7.7	20.5	8.2

OHIO RIVER MAIN STEM

03303280 OHIO RIVER AT CANNELTON DAM, KY

LOCATION.--Lat 37°53'58", long 86°42'20", Hancock County, Hydrologic Unit 05140201, at Cannelton Dam, 0.7 mi upstream from Indian Creek, 3.3 mi upstream from Lead Creek, and at mile 720.8.

DRAINAGE AREA.--97,000 mi², approximately.

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Gate opening and water-stage recorders. Datum of headwater gage 0.4 mi upstream is 374.0 ft Ohio River datum. Datum of tailwater gage 0.4 mi downstream is 26.0 ft lower.

REMARKS.--No estimated daily discharges. Records fair except for periods below 20,000 ft³/s, which are poor. Daily discharge computed from head, gate openings, and lockages. Flow regulated by Ohio River system of locks, dams, and reservoirs upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16200	27300	87600	56100	467000	284000	282000	381000	378000	71200	115000	30700
2	20000	32300	94100	62100	434000	305000	302000	362000	356000	78300	156000	12700
3	42800	47900	92100	84300	387000	300000	348000	342000	270000	63500	173000	34800
4	21200	43100	87800	130000	364000	278000	334000	322000	216000	58900	168000	12000
5	53300	36100	85200	179000	215000	294000	279000	361000	168000	71000	130000	21400
6	77900	45400	84000	200000	210000	284000	268000	396000	152000	53600	89100	42000
7	89500	44100	65900	192000	156000	270000	225000	424000	163000	50500	79500	32800
8	86200	45400	78100	154000	135000	266000	188000	447000	205000	65500	60700	90300
9	77900	49500	64900	109000	127000	283000	168000	465000	259000	40500	71000	91900
10	60800	73800	63800	65700	155000	302000	145000	477000	276000	13200	65000	105000
11	37700	89700	61500	97500	207000	335000	129000	490000	283000	66200	71600	71300
12	27800	87200	48400	86500	263000	329000	121000	512000	274000	33700	51400	50600
13	26500	99200	33000	72300	290000	285000	112000	519000	266000	44400	61700	63000
14	28200	116000	33200	84400	284000	248000	105000	500000	260000	47200	75300	62300
15	16700	129000	42000	84000	261000	208000	95500	467000	239000	43700	97900	62100
16	67200	138000	51100	96100	219000	190000	94500	452000	205000	52700	118000	82000
17	41800	135000	80000	136000	174000	205000	120000	472000	183000	75100	124000	96900
18	36000	131000	109000	206000	149000	229000	157000	492000	151000	55600	86700	105000
19	33000	117000	186000	292000	131000	245000	186000	497000	124000	63500	52200	137000
20	24100	100000	244000	333000	119000	295000	219000	496000	130000	104000	53600	162000
21	22800	95200	270000	396000	141000	302000	247000	490000	141000	143000	42300	164000
22	25200	106000	298000	433000	174000	324000	236000	477000	163000	180000	18700	148000
23	39700	99800	279000	458000	193000	348000	218000	453000	177000	222000	53900	119000
24	15600	104000	252000	495000	217000	378000	250000	409000	170000	224000	45600	93400
25	40500	99600	175000	527000	229000	405000	263000	332000	160000	163000	36600	71800
26	29700	97700	111000	547000	229000	403000	249000	253000	132000	132000	58500	63700
27	18200	89500	87600	555000	225000	366000	231000	273000	114000	120000	35200	75300
28	50500	84500	69600	549000	232000	276000	225000	281000	132000	86700	37800	135000
29	15700	72100	66900	537000	261000	262000	285000	307000	116000	55300	33000	143000
30	28500	65300	62900	519000	---	248000	337000	346000	89300	59100	27300	157000
31	36200	---	58300	496000	---	254000	---	373000	---	61700	16900	---
TOTAL	1207400	2500700	3422000	8232000	6648000	9001000	6419000	12868000	5952300	2599100	2305500	2536000
MEAN	38950	83360	110400	265500	229200	290400	214000	415100	198400	83840	74370	84530
MAX	89500	138000	298000	555000	467000	405000	348000	519000	378000	224000	173000	164000
MIN	15600	27300	33000	56100	119000	190000	94500	253000	89300	13200	16900	12000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1996, BY WATER YEAR (WY)

MEAN	59350	94620	161200	168300	204200	233700	206200	164400	100700	67020	55410	45920
MAX	155800	222400	334000	368700	358600	347400	360400	415100	235400	105200	148200	186500
(WY)	1980	1986	1979	1991	1994	1979	1994	1996	1981	1992	1980	1979
MIN	13980	28150	54160	36500	94740	125500	72990	46020	16490	18760	13130	14920
(WY)	1992	1992	1990	1977	1992	1983	1986	1976	1988	1988	1988	1983

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1976 - 1996	
ANNUAL TOTAL	40886130		63691000			
ANNUAL MEAN	112000		174000		129700	
HIGHEST ANNUAL MEAN					188900	
LOWEST ANNUAL MEAN					72150	
HIGHEST DAILY MEAN	519000	May 23	555000	Jan 27	617000	Dec 15 1978
LOWEST DAILY MEAN	3180	Aug 28	12000	Sep 4	3180	Aug 28 1995
ANNUAL SEVEN-DAY MINIMUM	14000	Sep 2	22300	Aug 30	7650	Jul 12 1988
INSTANTANEOUS PEAK STAGE			46.03	Jan 27	49.08	Dec 15 1978
10 PERCENT EXCEEDS	255000		379000		285000	
50 PERCENT EXCEEDS	89300		130000		91900	
90 PERCENT EXCEEDS	22000		36500		23600	

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 (discontinued) and 1996 to present.

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, 691 microsiemens, Nov. 14, 1978; minimum daily, 176 microsiemens, Dec. 15, 1978

WATER TEMPERATURES: Maximum daily, 30.0°C, July 23, 24, 1977, Aug. 5, 1982, several days in July and August, 1983; minimum daily, 0.0°C, on several days during most winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	STREAM FLOW INSTAN- TANEOUS (FT³/S (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN,	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, DIS- SOLVED (MG/L AS Na) (00930)	
				WATER WHOLE FIELD (STAND- ARD UNITS) (00400)				SATUR- ATION) (00301)					DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
NOV 1995													
29...	1430	E71700	465	7.6	8.0	4.3	10.6	90	150	39	12	26	
JAN 1996													
17...	1250	128000	--	--	4.0	21	13.1	--	130	34	9.9	20	
29...	1400	530000	215	7.3	2.5	35	11.2	84	82	23	5.9	8.4	
MAR													
06...	1330	283000	282	7.6	6.0	140	11.8	97	110	30	7.9	12	
APR													
08...	1345	190000	266	7.3	9.0	55	11.0	--	110	32	8.0	9.3	
24...	1400	246000	352	7.3	14.0	49	8.9	89	140	38	9.9	14	
MAY													
07...	1445	426000	325	7.3	15.0	200	7.8	79	130	39	8.9	11	
22...	1530	475000	227	6.8	16.5	130	7.8	82	89	25	6.5	6.8	
JUN													
05...	1500	167000	282	7.1	19.5	--	7.6	83	--	--	--	--	
26...	1510	122000	369	7.5	26.0	25	6.8	--	140	38	11	12	
JUL													
09...	1500	36100	402	7.4	27.5	3.5	5.8	75	150	41	11	16	
AUG													
14...	1400	70000	287	7.3	26.5	5.7	6.5	82	99	28	7.1	11	
SEP													
10...	1440	99400	340	7.3	27.5	3.0	7.2	93	110	29	8.7	20	
DATE		POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CaCO3 (39086)	ALKA- LITY WAT DIS TOT FET FIELD MG/L AS CaCO3 (00418)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
NOV 1995													
29...	3.3	88	72	70	32	87	0.2	4.1	278	0.02	1.30	0.120	
JAN 1996													
17...	2.3	86	71	71	28	56	0.1	5.5	213	0.01	1.20	0.210	
29...	2.5	76	62	61	13	29	0.2	5.5	133	0.02	1.40	0.100	
MAR													
06...	2.1	--	--	--	17	44	0.2	5.8	167	0.02	1.40	0.060	
APR													
08...	1.9	77	63	63	14	44	0.2	6.3	170	0.02	1.30	0.040	
24...	2.1	85	70	69	18	63	0.1	4.7	202	0.03	1.10	0.050	
MAY													
07...	2.4	91	75	75	15	43	0.2	5.6	196	0.02	1.30	<0.015	
22...	1.8	59	48	49	8.1	35	0.1	6.1	139	0.02	0.58	0.020	
JUN													
05...	--	82	67	67	--	--	--	--	--	0.01	1.10	<0.015	
26...	2.5	106	87	86	15	55	0.2	5.7	218	0.02	1.50	0.050	
JUL													
09...	2.7	97	80	79	20	67	0.2	4.5	240	0.08	1.40	0.040	
AUG													
14...	2.7	72	59	58	12	49	0.2	4.9	148	0.04	1.00	0.020	
SEP													
10...	2.6	74	61	61	21	58	0.2	4.2	187	0.03	0.76	0.150	

OHIO RIVER MAIN STEM

03303280 OHIO RIVER AT CANNELTON DAM, KY--Continued

(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
NOV 1995												
29...	0.3	0.4	0.06	0.05	0.040	10	--	<1	40	<10	--	<1.0
JAN 1996												
17...	0.4	0.5	0.08	0.03	0.027	10	<1	<1	34	<1	--	<1.0
29...	0.3	1.1	0.38	0.02	0.027	20	<1	<1	30	<1	--	<1.0
MAR												
06...	0.3	0.5	0.08	0.04	0.012	10	<1	<1	33	<1	10	<1.0
APR												
08...	0.2	0.5	0.14	0.03	0.026	10	<1	<1	28	<1	<10	<1.0
24...	0.3	0.6	0.20	0.02	0.036	10	<1	<1	34	<1	30	<1.0
MAY												
07...	0.3	1.5	0.73	0.05	0.046	30	3	<1	31	<1	30	<1.0
22...	0.2	0.5	0.12	0.01	0.021	10	<1	<1	29	<1	30	<1.0
JUN												
05...	0.2	0.6	0.18	0.04	0.030	10	<1	--	35	<1	--	<1.0
26...	0.2	0.3	0.10	0.03	0.053	10	<1	<1	44	<1	40	<1.0
JUL												
09...	<0.2	<0.2	0.02	0.02	0.034	9	<1	<1	46	<1	50	<1.0
AUG												
14...	0.2	0.2	0.03	<0.01	0.022	10	<1	<1	37	<1	40	<1.0
SEP												
10...	0.3	0.4	0.04	<0.01	0.020	6	<1	<1	40	<1	50	<1.0

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)
NOV 1995											
29...	<5	<3	2	6	<1	3	<10	1	<1	<1.0	300
JAN 1996											
17...	1	<1	2	50	<1	9	1	3	<1	<1.0	200
29...	<1	<1	1	54	<1	12	<1	2	<1	<1.0	120
MAR											
06...	<1	<1	2	48	<1	4	1	2	<1	<1.0	170
APR											
08...	<1	<1	1	32	<1	2	1	1	<1	<1.0	150
24...	<1	<1	2	12	<1	<1	2	3	<1	<1.0	210
MAY											
07...	<1	<1	3	55	<1	2	2	2	<1	<1.0	180
22...	<1	<1	1	20	<1	3	<1	2	<1	<1.0	130
JUN											
05...	<1	<1	2	--	<1	1	1	2	--	<1.0	--
26...	<1	<1	1	5	<1	1	2	2	<1	<1.0	240
JUL											
09...	<1	<1	2	<3	<1	4	3	2	<1	<1.0	230
AUG											
14...	1	<1	2	15	<1	2	2	2	<1	<1.0	160
SEP											
10...	<1	<1	2	<3	<1	3	3	1	<1	<1.0	190

OHIO RIVER MAIN STEM

03303280 OHIO RIVER AT CANNELTON DAM, KY--Continued

(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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 1995											
29...	<6	10	--	--	--	--	--	--	--	--	--
JAN 1996											
17...	<6	<1	<1.0	3.4	0.5	<0.002	<0.002	0.039	<0.002	<0.002	<0.004
29...	<6	2	<1.0	3.3	4.0	--	--	--	--	--	--
MAR											
06...	<6	1	<1.0	2.7	4.2	<0.002	<0.002	0.052	<0.002	<0.002	<0.004
APR											
08...	<6	1	<1.0	2.7	2.0	0.005	0.005	0.050	<0.002	<0.002	0.006
24...	<6	1	<1.0	2.6	2.3	<0.002	0.015	0.060	<0.002	<0.002	<0.004
MAY											
07...	<6	2	<1.0	3.5	>5.0	0.014	0.031	0.344	<0.002	0.046	0.008
22...	<6	1	<1.0	3.2	0.4	0.008	0.019	0.150	<0.002	<0.002	0.005
JUN											
05...	--	<1	<1.0	3.1	0.9	0.041	0.156	1.15	<0.002	<0.002	<0.004
26...	<6	<1	<1.0	3.3	0.8	0.100	0.320	2.80	E0.002	<0.002	0.006
JUL											
09...	<6	2	<1.0	2.9	0.2	0.089	0.082	1.20	E0.003	<0.002	E0.004
AUG											
14...	<6	<1	<1.0	3.5	0.3	0.007	0.007	0.252	<0.002	<0.002	<0.004
SEP											
10...	<6	1	<1.0	2.5	0.4	0.004	<0.002	0.112	<0.002	<0.002	E0.003
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 1995											
29...	--	--	--	--	--	--	--	--	--	--	--
JAN 1996											
17...	<0.004	E0.013	<0.002	<0.001	<0.003	<0.004	<0.005	<0.004	0.027	<0.006	<0.004
29...	--	--	--	--	--	--	--	--	--	--	--
MAR											
06...	0.008	E0.008	<0.002	<0.001	<0.003	<0.004	<0.005	<0.004	0.033	<0.006	<0.004
APR											
08...	0.013	E0.013	<0.004	<0.001	<0.003	<0.004	<0.005	<0.004	0.070	<0.006	<0.004
24...	<0.004	E0.008	<0.002	<0.001	<0.003	<0.004	<0.005	<0.004	0.060	<0.006	<0.004
MAY											
07...	0.061	E0.020	0.015	<0.001	<0.003	<0.004	<0.005	0.014	0.210	<0.006	<0.004
22...	0.040	E0.015	<0.002	<0.001	<0.003	<0.004	<0.005	0.009	0.087	<0.006	<0.004
JUN											
05...	0.297	E0.029	E0.003	<0.001	<0.003	<0.004	<0.005	0.027	0.408	<0.006	<0.004
26...	0.840	E0.110	0.007	0.006	<0.003	<0.004	<0.005	0.047	1.200	<0.006	<0.004
JUL											
09...	0.380	E0.064	<0.002	<0.001	<0.003	<0.004	<0.005	0.018	0.710	<0.006	<0.004
AUG											
14...	0.035	E0.016	0.008	<0.001	<0.003	<0.004	<0.005	<0.004	0.109	<0.006	<0.004
SEP											
10...	0.023	E0.016	0.005	<0.001	<0.003	<0.004	<0.005	<0.004	0.042	<0.006	<0.004

OHIO RIVER MAIN STEM

03303280 OHIO RIVER AT CANNELTON DAM, KY--Continued

(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)
NOV 1995 29...	--	--	--	--	--	--	--	--	--	--	--
JAN 1996 17...	<0.007	0.005	0.012	<0.002	0.010	<0.003	<0.002	<0.003	<0.017	<0.004	<0.003
29...	--	--	--	--	--	--	--	--	--	--	--
MAR 06...	<0.007	<0.018	0.009	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017	<0.004	<0.003
APR 08...	<0.007	0.007	0.016	<0.002	<0.012	<0.010	<0.002	<0.003	<0.017	<0.004	<0.003
24...	<0.007	0.006	0.013	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017	<0.004	<0.003
MAY 07...	<0.007	0.012	0.066	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017	<0.004	<0.003
22...	<0.007	0.006	0.029	<0.002	0.011	0.012	<0.002	<0.003	<0.017	<0.004	<0.003
JUN 05...	<0.007	0.006	0.124	<0.002	0.005	<0.003	<0.002	<0.003	<0.017	<0.004	<0.003
26...	<0.007	0.016	0.340	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017	<0.004	<0.003
JUL 09...	<0.007	0.017	0.150	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017	<0.004	<0.003
AUG 14...	<0.007	0.023	0.032	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017	<0.004	<0.003
SEP 10...	<0.007	0.013	0.039	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017	<0.004	<0.003
DATE	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)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
NOV 1995 29...	--	--	--	--	--	--	--	--	--	--	--
JAN 1996 17...	<0.002	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.004	<0.005	<0.002	<0.003
29...	--	--	--	--	--	--	--	--	--	--	--
MAR 06...	<0.002	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.004	<0.005	<0.002	<0.003
APR 08...	<0.002	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.004	<0.005	<0.002	<0.003
24...	<0.002	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.004	<0.005	<0.002	<0.003
MAY 07...	<0.002	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.004	<0.005	<0.002	<0.003
22...	<0.002	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.004	<0.005	<0.002	<0.003
JUN 05...	<0.002	0.005	<0.001	<0.006	<0.004	<0.003	<0.004	<0.004	<0.005	<0.002	<0.003
26...	<0.002	0.030	<0.001	<0.006	<0.004	<0.003	<0.004	0.008	<0.005	<0.002	<0.003
JUL 09...	<0.002	0.029	<0.001	<0.006	<0.004	<0.003	<0.004	<0.004	<0.005	<0.002	<0.003
AUG 14...	<0.002	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.004	<0.005	<0.002	<0.003
SEP 10...	<0.002	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.004	<0.005	<0.002	<0.003

OHIO RIVER MAIN STEM

03303280 OHIO RIVER AT CANNELTON DAM, KY--Continued

(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 1995											
29...	--	--	--	--	--	--	--	--	--	--	--
JAN 1996											
17...	<0.004	<0.013	<0.010	<0.007	<0.013	<0.001	<0.002	<0.002	33	11300	97
29...	--	--	--	--	--	--	--	--	279	399000	96
MAR											
06...	<0.004	<0.013	<0.010	<0.007	<0.013	<0.001	<0.002	<0.002	--	--	--
APR											
08...	<0.004	<0.013	<0.010	<0.007	<0.013	<0.004	<0.002	<0.002	114	--	99
24...	<0.004	<0.013	<0.010	<0.007	<0.013	<0.001	<0.002	<0.002	118	--	92
MAY											
07...	<0.004	<0.013	E0.009	<0.007	<0.013	<0.001	<0.002	<0.002	584	672000	90
22...	<0.004	<0.013	0.012	<0.007	<0.013	<0.001	<0.002	<0.002	205	263000	97
JUN											
05...	<0.004	<0.013	E0.009	<0.007	<0.013	<0.001	<0.002	<0.002	122	55000	99
26...	<0.004	<0.013	E0.011	E0.005	<0.013	<0.001	<0.002	<0.002	54	17800	99
JUL											
09...	<0.004	<0.013	<0.010	<0.007	<0.013	<0.001	<0.002	<0.002	8	780	99
AUG											
14...	<0.004	<0.013	<0.010	<0.007	<0.013	<0.001	<0.002	<0.002	11	2080	98
SEP											
10...	<0.004	<0.013	0.016	<0.007	<0.013	<0.001	<0.002	<0.002	11	2950	98

QUALITY-ASSURANCE DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	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)	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, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
NOV 1995											
29...	1438	--	--	--	--	--	0.143	0.049	0.005	0.21	--
JAN 1996											
12...	1200	--	--	--	--	--	--	0.003	<0.001	<0.03	--
APR											
24...	1405	--	--	--	40	--	140	38	9.8	14	2.2
24...	1410	--	--	--	52	--	140	38	9.8	15	2.0
24...	1415	--	--	--	46	--	140	38	9.9	14	2.1
MAY											
22...	1533	--	--	--	--	--	--	--	--	--	--
22...	1535	--	--	--	--	--	--	--	--	--	--
22...	1540	--	--	--	120	--	89	25	6.5	6.8	1.8
22...	1545	--	--	--	--	--	--	--	--	--	--
JUN											
26...	1520	369	7.5	26.0	24	6.8	140	38	11	12	2.6
AUG											
28...	1000	--	--	--	--	--	0.019	0.01	0.001	<0.03	--

OHIO RIVER MAIN STEM

03303280 OHIO RIVER AT CANNELTON DAM, KY--Continued

(National stream-quality accounting network station)

QUALITY-ASSURANCE DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKALINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	CHLORIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	FLUORIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	NITROGEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITROGEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV 1995											
29...	--	--	--	--	--	--	<0.02	<0.001	<0.005	<0.002	--
JAN 1996											
12...	--	--	--	--	--	--	<0.02	--	--	--	--
APR											
24...	--	--	--	18	63	0.10	4.7	0.020	1.10	0.070	0.3
24...	84	69	68	19	62	0.20	4.7	0.020	1.00	0.050	0.3
24...	--	--	--	19	62	0.10	4.8	0.020	1.10	0.060	0.3
MAY											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	59	48	49	8.2	35	0.10	6.1	0.020	0.580	0.020	0.2
22...	59	48	49	--	--	--	--	--	--	--	--
JUN											
26...	100	82	82	15	55	0.20	5.7	0.020	1.50	0.040	0.2
AUG											
28...	--	--	--	--	--	--	0.10	<0.001	<0.005	<0.002	--
DATE	NITROGEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUMINUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTIMONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYLLIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
NOV 1995											
29...	--	--	--	0.001	0.32	<0.2	--	<0.2	<0.2	<2	<0.3
JAN 1996											
12...	--	--	--	--	<0.30	<0.2	--	<0.2	<0.2	<2	<0.3
APR											
24...	0.50	0.170	0.030	0.036	10	<1	<1	35	<1	30	<1.0
24...	0.60	0.180	0.020	0.037	10	<1	<1	34	<1	40	<1.0
24...	0.60	0.180	0.020	0.032	10	<1	<1	33	<1	40	<1.0
MAY											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	0.60	0.170	0.020	0.022	20	<1	<1	29	<1	40	<1.0
22...	--	--	--	--	--	--	--	--	--	--	--
JUN											
26...	0.30	0.080	0.040	0.052	10	<1	<1	43	<1	40	<1.0
AUG											
28...	--	--	--	<0.001	<0.30	<0.2	--	<0.2	<0.2	8	<0.3
DATE	CHROMIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGANESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELENIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRONTIUM, DIS- SOLVED (UG/L AS SR) (01080)
NOV 1995											
29...	<0.3	<0.20	2	<3	<0.3	<0.3	0.13	<0.5	--	<0.2	<0.1
JAN 1996											
12...	0.3	<0.27	<0.2	<3	<0.3	<0.3	<0.10	<0.5	--	<0.2	<0.1
APR											
24...	<1	<1	2	15	<1	<1	2	2	<1	<1.0	200
24...	<1	<1	2	14	<1	1	2	2	<1	<1.0	210
24...	<1	<1	2	12	<1	1	2	2	<1	<1.0	210
MAY											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	<1	<1	2	33	<1	5	<1	2	<1	<1.0	130
22...	--	--	--	--	--	--	--	--	--	--	--
JUN											
26...	<1	<1	2	5	<1	3	2	2	<1	<1.0	240
AUG											
28...	<0.3	<0.20	<0.2	<3	<0.3	<0.3	<0.10	<0.5	--	<0.2	<0.1

OHIO RIVER MAIN STEM

(National stream-quality accounting network station)

QUALITY-ASSURANCE DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

[illegible][illegible][illegible]

OHIO RIVER MAIN STEM

03303280 OHIO RIVER AT CANNELTON DAM, KY--Continued

(National stream-quality accounting network station)

QUALITY-ASSURANCE DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

[illegible]

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.

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

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

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

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

REMARKS.--Estimated daily discharges: Dec. 27-30, Jan. 6-10, 16-18, and Feb. 2-7. Records good except for periods of estimated record, which are poor.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	57	68	106	206	260	949	378	140	51	126	29
2	7.0	58	65	652	160	221	801	308	122	48	80	151
3	12	84	64	946	135	228	551	269	176	48	62	105
4	126	86	67	513	120	142	434	215	226	59	53	156
5	555	66	71	345	105	137	370	177	187	48	47	77
6	410	58	66	270	100	2730	304	243	128	43	43	57
7	107	1430	64	200	92	3560	262	1040	115	40	39	46
8	59	890	62	160	271	1400	230	889	464	38	40	43
9	43	371	61	130	408	793	221	485	679	45	218	48
10	35	230	56	140	306	546	186	339	1450	60	94	42
11	30	395	53	212	246	429	164	262	1240	40	124	44
12	27	540	54	351	195	353	151	228	2950	36	626	37
13	23	309	57	358	165	299	145	178	1100	36	353	33
14	23	225	60	471	156	255	150	148	647	56	171	30
15	24	175	60	863	192	239	143	151	432	695	111	29
16	26	142	64	700	207	262	226	151	310	347	84	83
17	26	120	71	600	164	419	172	125	233	141	75	412
18	23	106	109	570	151	327	144	108	185	183	320	165
19	21	96	277	2280	183	519	139	94	199	92	122	93
20	22	88	402	889	388	787	748	85	208	551	81	68
21	32	82	265	571	332	666	842	77	133	272	64	58
22	40	76	189	426	273	660	436	73	109	164	55	57
23	32	79	150	366	236	896	1270	67	95	126	50	56
24	27	122	127	1970	196	944	906	62	92	90	46	46
25	25	119	112	966	155	916	547	60	105	73	44	42
26	24	100	99	607	142	647	517	87	87	64	41	41
27	75	93	90	594	141	437	413	248	70	58	39	41
28	318	87	80	435	434	393	307	832	63	50	38	1670
29	122	78	72	365	348	412	268	650	58	51	35	916
30	80	71	68	307	---	360	506	335	54	99	33	390
31	64	---	80	256	---	342	---	195	---	136	31	---
TOTAL	2445.7	6433	3183	17619	6207	20579	12502	8559	12057	3840	3345	5065
MEAN	78.9	214	103	568	214	664	417	276	402	124	108	169
MAX	555	1430	402	2280	434	3560	1270	1040	2950	695	626	1670
MIN	7.0	57	53	106	92	137	139	60	54	36	31	29
CFSM	.42	1.14	.55	3.02	1.14	3.53	2.22	1.47	2.14	.66	.57	.90
IN.	.48	1.27	.63	3.49	1.23	4.07	2.47	1.69	2.39	.76	.66	1.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1996, BY WATER YEAR (WY)

MEAN	73.4	209	417	482	589	577	398	279	183	131	90.1	115
MAX	636	1047	2540	1779	1588	1787	855	1464	800	751	502	1114
(WY)	1976	1952	1979	1950	1989	1975	1972	1983	1950	1967	1967	1979
MIN	1.38	8.92	18.6	26.5	61.1	91.0	70.1	39.8	14.6	10.0	4.25	2.09
(WY)	1954	1954	1954	1981	1941	1941	1986	1941	1988	1944	1991	1953

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1940 - 1996

ANNUAL TOTAL	114939.6	101834.7	
ANNUAL MEAN	315	278	294
HIGHEST ANNUAL MEAN			651
LOWEST ANNUAL MEAN			118
HIGHEST DAILY MEAN	9720	May 14	3560
LOWEST DAILY MEAN	2.8	Sep 8	7.0
ANNUAL SEVEN-DAY MINIMUM	2.9	Sep 6	24
INSTANTANEOUS PEAK FLOW			4490
INSTANTANEOUS PEAK STAGE			13.03
INSTANTANEOUS LOW FLOW			26.12
ANNUAL RUNOFF (CFSM)	1.68	1.48	1.56
ANNUAL RUNOFF (INCHES)	22.74	20.15	21.23
10 PERCENT EXCEEDS	635	654	634
50 PERCENT EXCEEDS	98	141	101
90 PERCENT EXCEEDS	9.6	40	15

GREEN RIVER BASIN

03308500 GREEN RIVER AT MUNFORDVILLE, KY

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

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

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

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

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

REMARKS.--Estimated daily discharges: Dec. 12-14, 28-30 and Jan. 8-9. Records good except for periods of estimated record, which are poor. Flow regulated by Green River Lake beginning February 1969 (station 03305990).

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	216	1530	1220	707	5320	3880	3580	5140	3800	529	2860	254
2	216	1530	887	1350	5110	3880	6170	4660	3670	508	1990	256
3	222	1640	764	4240	5040	3240	4750	4250	3690	493	1140	270
4	312	1850	753	4570	5030	2220	4030	3610	4020	475	666	309
5	1680	1780	743	4000	5020	2020	3480	2490	3100	462	457	438
6	4850	1670	685	4290	3620	5560	2920	2370	2000	449	434	417
7	2450	2280	575	3860	2430	16000	2140	4200	1410	441	456	344
8	1620	6220	555	3000	2210	13600	1830	7570	2840	428	446	305
9	1380	4640	536	2600	2030	6790	1640	6080	6550	424	573	656
10	1220	3790	517	1900	2290	4530	1460	4740	6390	430	503	719
11	1140	3650	494	1850	2040	4740	1290	3880	8810	379	496	371
12	1090	5120	480	1950	1820	5330	1190	2990	11800	370	432	302
13	1040	4430	460	2520	1760	5420	1070	2140	9560	358	1100	280
14	1070	3790	455	2620	2310	5230	1020	1460	6990	345	1510	262
15	1420	3480	450	3590	2320	4890	1010	1310	6130	1960	1260	249
16	1440	3260	471	4490	2380	4830	993	1310	5490	3120	1140	371
17	1420	3120	494	4990	2300	5030	954	1220	5100	1790	1340	2230
18	1410	3020	575	5750	1560	5260	915	1070	4530	1520	1320	1680
19	1410	2940	1380	10200	1540	5440	838	970	3800	1380	1180	2060
20	1420	2870	3420	9100	5150	7900	1050	910	3370	1730	794	1910
21	1430	2830	3340	5800	5930	7040	3850	882	3320	2940	546	1190
22	1430	2720	3150	4910	4950	5930	3220	811	3190	4220	486	1130
23	1410	2150	2800	4560	4610	5910	5340	769	2630	4570	458	1060
24	1420	1850	2570	9950	3670	5880	10200	696	1480	4850	439	777
25	1410	1850	2290	11700	2520	6100	7530	604	1350	4760	427	675
26	1390	1840	1510	7380	2220	6610	6640	614	977	4680	416	571
27	1550	1740	965	6670	2080	5000	6090	1240	760	4340	406	600
28	2030	1720	800	6180	2880	4010	5490	3910	648	3970	364	5230
29	2190	1670	700	5840	4140	3310	4760	4640	592	3710	349	6370
30	1850	1590	630	5830	---	3060	5090	4240	554	3200	290	4220
31	1640	---	575	5560	---	2690	---	4060	---	2940	264	---
TOTAL	44776	82570	35244	151957	94280	171330	100540	84836	118551	61771	24542	35506
MEAN	1444	2752	1137	4902	3251	5527	3351	2737	3952	1993	792	1184
MAX	4850	6220	3420	11700	5930	16000	10200	7570	11800	4850	2860	6370
MIN	216	1530	450	707	1540	2020	838	604	554	345	264	249

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1996, BY WATER YEAR (WY)

MEAN	1371	2523	4268	4734	5609	4804	3684	3398	2177	1092	920	1378
MAX	5337	5187	12800	12130	13610	12040	8632	13250	6819	3132	3642	6104
(WY)	1976	1978	1979	1974	1989	1975	1994	1983	1981	1973	1977	1979
MIN	244	210	545	255	1952	1066	552	487	214	280	202	192
(WY)	1987	1972	1981	1981	1992	1983	1986	1988	1988	1993	1993	1983

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1970 - 1996

ANNUAL TOTAL	1183076	1005903	
ANNUAL MEAN	3241	2748	2983
HIGHEST ANNUAL MEAN			5285
LOWEST ANNUAL MEAN			1348
HIGHEST DAILY MEAN	33700	May 20	16000
LOWEST DAILY MEAN	189	Sep 10	216
ANNUAL SEVEN-DAY MINIMUM	191	Sep 6	285
INSTANTANEOUS PEAK FLOW			16200
INSTANTANEOUS PEAK STAGE			23.14
INSTANTANEOUS LOW FLOW			57.72
10 PERCENT EXCEEDS	7070		5810
50 PERCENT EXCEEDS	1590		1990
90 PERCENT EXCEEDS	276		444

GREEN RIVER BASIN

03310300 NOLIN RIVER AT WHITE MILLS, KY

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

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

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

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

REMARKS.--Estimated daily discharges: Jan. 8, 19, 20. Records good except for period Dec. 12-Jan 21 and for periods of estimated record, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	191	255	343	687	453	1410	1170	855	220	240	91
2	74	179	240	422	619	424	1600	912	736	209	201	91
3	125	207	232	765	554	393	1230	798	686	269	182	91
4	373	216	221	633	502	348	1110	705	687	237	167	87
5	1820	191	213	543	458	334	959	618	569	201	159	84
6	5140	176	203	495	430	2360	829	1080	487	185	157	102
7	2310	217	196	471	417	3710	742	929	607	173	154	115
8	1020	439	189	430	410	2400	669	1510	1050	211	153	182
9	774	398	180	388	415	1530	608	1490	3200	227	152	151
10	617	335	172	374	397	1260	556	1060	2720	176	149	109
11	515	368	166	381	379	1090	513	861	1840	154	136	100
12	440	1070	152	386	360	986	479	753	1950	146	132	94
13	384	753	152	398	335	890	457	643	1290	139	131	90
14	343	744	155	539	323	800	498	569	1010	144	129	88
15	309	681	186	747	317	928	450	569	836	1850	124	85
16	280	576	211	1140	308	1080	443	586	726	784	121	132
17	253	497	304	1140	290	2020	400	495	638	435	193	236
18	233	441	768	2740	275	1380	368	440	554	334	151	202
19	212	402	1290	2490	277	1770	351	395	691	281	133	126
20	200	366	935	2240	988	2590	820	362	613	995	123	109
21	192	336	744	1990	1240	2030	977	335	515	620	117	101
22	186	311	623	1740	927	1740	686	312	437	1320	113	99
23	174	288	540	1790	785	1720	1770	290	392	612	110	99
24	160	298	481	5310	679	1700	2350	271	357	448	107	94
25	154	407	436	4040	575	1750	1280	260	362	360	99	87
26	147	358	399	2170	520	1680	1160	926	335	300	96	82
27	201	325	368	1730	492	1280	996	2910	289	262	94	269
28	420	310	336	1290	559	1120	796	3570	268	235	109	2010
29	304	296	313	1010	543	1080	801	2570	250	218	126	1960
30	241	278	296	879	---	989	1440	1490	234	207	103	728
31	209	---	303	775	---	893	---	1080	---	258	93	---
TOTAL	17887	11654	11259	39789	15061	42728	26748	29959	25184	12210	4254	7894
MEAN	577	388	363	1284	519	1378	892	966	839	394	137	263
MAX	5140	1070	1290	5310	1240	3710	2350	3570	3200	1850	240	2010
MIN	74	176	152	343	275	334	351	260	234	139	93	82
CFSM	1.62	1.09	1.02	3.60	1.45	3.86	2.50	2.71	2.35	1.10	.38	.74
IN.	1.86	1.21	1.17	4.15	1.57	4.45	2.79	3.12	2.62	1.27	.44	.82

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1996, BY WATER YEAR (WY)

MEAN	156	294	629	696	897	948	767	599	299	246	177	207
MAX	692	1206	2356	1603	3807	2571	2447	2715	839	972	966	2258
(WY)	1978	1989	1979	1974	1989	1964	1972	1983	1996	1967	1967	1979
MIN	37.0	48.6	44.7	55.5	156	228	200	131	71.9	83.2	55.5	46.3
(WY)	1970	1964	1964	1981	1964	1983	1986	1976	1988	1994	1962	1983

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1960 - 1996
ANNUAL TOTAL	201720	244627	
ANNUAL MEAN	553	668	491
HIGHEST ANNUAL MEAN			971
LOWEST ANNUAL MEAN			283
HIGHEST DAILY MEAN	8520	5310	17500
LOWEST DAILY MEAN	67	74	32
ANNUAL SEVEN-DAY MINIMUM	72	91	33
INSTANTANEOUS PEAK FLOW		6050	19400
INSTANTANEOUS PEAK STAGE		16.60	34.86
INSTANTANEOUS LOW FLOW		73	31
ANNUAL RUNOFF (CFSM)	1.55	1.87	1.38
ANNUAL RUNOFF (INCHES)	21.02	25.49	18.69
10 PERCENT EXCEEDS	989	1690	1060
50 PERCENT EXCEEDS	310	401	241
90 PERCENT EXCEEDS	111	126	60

GREEN RIVER BASIN

03311000 NOLIN RIVER AT KYROCK, KY

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

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

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

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

REMARKS.--No estimated daily discharges. Water-discharge records not rated, see COOPERATION. Maximum gage height for period of record affected by backwater from the Green River. Flow regulated since March 1963 by Nolin Lake (station 03310900). Discharge records computed using gate openings.

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	528	1560	482	480	3980	475	518	3370	3890	533	262	104
2	527	1560	482	481	3930	476	521	2280	3870	533	262	104
3	527	1550	482	629	3880	477	524	962	2170	533	262	104
4	527	1550	481	719	3820	477	263	603	831	410	262	104
5	533	1540	481	720	1890	941	106	1580	533	336	262	104
6	1110	1530	480	721	942	1420	106	982	534	336	262	104
7	1690	1850	480	721	940	732	106	608	534	336	262	104
8	2060	2050	480	721	939	300	106	611	904	301	263	104
9	2800	2040	383	839	937	303	107	853	520	266	309	142
10	2780	2030	287	956	936	305	107	1740	1030	244	401	180
11	2770	2030	240	955	934	2090	74	2290	660	267	401	180
12	2760	2020	192	954	779	3030	51	2290	282	267	401	180
13	2740	2020	192	953	474	3020	51	2650	285	267	401	180
14	2730	2020	192	952	474	3000	51	2840	675	267	401	180
15	2710	2010	192	954	474	2980	51	2140	2240	828	401	278
16	1310	2000	192	1580	474	2960	51	1150	2990	1940	331	337
17	542	1990	192	1890	474	2940	51	603	3860	2110	262	378
18	964	1980	337	1890	474	2940	51	603	4260	979	262	401
19	1100	1970	482	2160	474	2570	51	603	4240	267	262	401
20	1270	1960	1080	2430	477	1970	51	602	4210	269	262	401
21	1610	1950	1430	2430	949	1990	52	434	3250	271	262	748
22	1610	1780	1430	2430	1890	1990	435	267	2490	977	262	532
23	1600	1450	1430	2420	2360	2000	1290	456	1810	2030	262	531
24	1600	1440	1430	2450	2030	2010	1720	534	1390	2490	209	530
25	1590	1430	1420	1150	1400	2010	2470	534	965	2110	104	530
26	1590	1430	1420	506	1400	1770	2860	534	434	698	104	529
27	1580	836	947	509	1390	1520	3230	536	534	263	104	530
28	1580	483	480	1530	1390	1520	3390	1250	533	263	104	399
29	1580	483	480	2540	932	848	2650	2190	533	263	104	343
30	1570	483	480	3550	---	514	2670	2790	533	987	104	1580
31	1090	---	480	4030	---	515	---	3530	---	1010	104	---
TOTAL	48978	49025	19236	45250	41443	50093	23764	42415	50990	22651	7914	10322
MEAN	1580	1634	621	1460	1429	1616	792	1368	1700	731	255	344
MAX	2800	2050	1430	4030	3980	3030	3390	3530	4260	2490	401	1580
MIN	527	483	192	480	474	300	51	267	282	244	104	104

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1996, BY WATER YEAR (WY)

	MEAN	922	1354	1255	1579	1603	1229	820	1101	837	502	299	538
	MAX	4959	3393	4491	4852	4541	5533	4777	4161	4437	2009	1335	2266
	(WY)	1980	1973	1978	1979	1985	1989	1975	1984	1983	1967	1967	1982
	MIN	.000	452	1.50	122	91.4	203	.63	.39	.000	.000	.000	.000
	(WY)	1976	1964	1985	1981	1992	1983	1966	1964	1964	1964	1964	1975

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR			FOR 1996 WATER YEAR			WATER YEARS 1964 - 1996		
ANNUAL TOTAL	383640.00			412081			1000		
ANNUAL MEAN	1051			1126			1880		
HIGHEST ANNUAL MEAN							1880		
LOWEST ANNUAL MEAN							597		
HIGHEST DAILY MEAN	7290	Jun 1		4260	Jun 18		10300	May 28	1983
LOWEST DAILY MEAN	.00	May 20		51	Apr 12		.00	May 2	1964
ANNUAL SEVEN-DAY MINIMUM	47	Mar 30		51	Apr 12		.00	May 2	1964
INSTANTANEOUS PEAK FLOW							22700	Jan 30	1932
INSTANTANEOUS PEAK STAGE				32.37	Jun 19		59.27	Mar 2	1962
10 PERCENT EXCEEDS	2730			2660			2490		
50 PERCENT EXCEEDS	482			708			475		
90 PERCENT EXCEEDS	52			180			53		

GREEN RIVER BASIN

03312765 BEAVER CREEK AT HWY 31 E NEAR GLASGOW, KY

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

DRAINAGE AREA.--49.6 mi².

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

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

REMARKS.--Estimated daily discharges: Nov. 8-21, Dec. 27 to Jan. 17, Jan. 20-23, and Feb. 2-7. Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

		DAILY MEAN VALUES											
DAY		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1	4.7	13	26	34	62	106	369	137	49	24	64	11
	2	4.7	16	25	150	52	90	304	108	50	24	41	11
	3	5.6	22	24	250	45	71	194	92	68	23	33	12
	4	11	22	25	170	38	58	163	79	83	23	27	13
	5	142	20	24	120	33	54	141	69	71	20	24	12
	6	67	20	23	82	29	958	129	73	58	19	22	12
	7	27	319	22	62	27	1280	114	209	52	19	20	17
	8	19	170	21	48	40	640	103	234	248	19	22	66
	9	16	70	21	38	41	342	94	147	407	20	40	41
	10	14	50	20	41	38	230	82	112	318	19	26	25
	11	12	250	19	68	35	180	74	94	216	17	21	16
	12	11	190	19	95	31	154	68	81	189	17	40	13
	13	11	100	19	110	29	138	65	70	136	17	39	12
	14	11	75	20	150	29	124	61	62	105	18	27	11
	15	11	58	20	260	30	114	60	69	85	30	23	11
	16	9.5	46	21	200	29	110	60	62	72	26	20	220
	17	9.3	40	22	160	27	129	53	54	64	19	19	107
	18	9.0	37	37	139	26	114	50	49	59	17	18	46
	19	8.8	34	70	533	74	219	49	45	54	16	16	33
	20	9.5	32	75	300	519	267	112	42	48	41	15	26
	21	9.8	30	62	190	241	202	126	40	43	32	15	24
	22	9.8	29	52	130	146	195	128	38	40	68	14	27
	23	9.4	30	44	110	118	234	1060	35	38	30	13	21
	24	8.8	43	38	890	91	234	404	32	43	23	13	19
	25	8.8	38	35	401	72	405	243	30	43	20	13	17
	26	8.8	35	32	215	64	293	184	40	36	19	21	16
	27	20	34	29	155	61	188	132	79	31	17	17	133
	28	31	32	25	112	194	165	105	155	29	16	14	685
	29	19	28	22	98	135	150	109	101	27	51	13	242
	30	15	27	20	84	---	131	198	72	26	72	12	131
	31	13	---	27	72	---	128	---	57	---	87	11	---
TOTAL		566.5	1910	939	5467	2356	7703	5034	2567	2788	863	713	2030
MEAN		18.3	63.7	30.3	176	81.2	248	168	82.8	92.9	27.8	23.0	67.7
MAX		142	319	75	890	519	1280	1060	234	407	87	64	685
MIN		4.7	13	19	34	26	54	49	30	26	16	11	11
CFSM		.37	1.28	.61	3.56	1.64	5.01	3.38	1.67	1.87	.56	.46	1.36
IN.		.42	1.43	.70	4.10	1.77	5.78	3.78	1.93	2.09	.65	.53	1.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1996, BY WATER YEAR (WY)

MEAN	14.8	36.1	95.2	159	187	245	135	118	88.7	25.7	17.7	24.9
MAX	21.9	63.7	156	206	489	473	307	381	233	50.1	39.2	67.7
(WY)	1992	1996	1992	1995	1994	1994	1994	1995	1992	1992	1994	1996
MIN	6.96	26.4	30.3	107	78.8	137	63.2	38.8	19.9	7.41	4.53	3.71
(WY)	1994	1992	1996	1993	1992	1993	1993	1994	1993	1993	1993	1993

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR			FOR 1996 WATER YEAR			WATER YEARS 1992 - 1996		
ANNUAL TOTAL	39278.0			32936.5			95.3		
ANNUAL MEAN	108			90.0			142		
HIGHEST ANNUAL MEAN							1994		
LOWEST ANNUAL MEAN							1993		
HIGHEST DAILY MEAN	2490	May	19	1280	Mar	7	2930	Mar	9 1994
LOWEST DAILY MEAN	4.7	Sep	7	4.7	Oct	1	1.7	Sep	14 1993
ANNUAL SEVEN-DAY MINIMUM	4.8	Sep	5	9.3	Oct	19	1.8	Sep	8 1993
INSTANTANEOUS PEAK FLOW				1620	Mar	6	6620	Jun	18 1992
INSTANTANEOUS PEAK STAGE				10.18	Mar	6	15.10	Jun	18 1992
ANNUAL RUNOFF (CFSM)	2.17			1.81			1.92		
ANNUAL RUNOFF (INCHES)	29.46			24.70			26.11		
10 PERCENT EXCEEDS	248			204			207		
50 PERCENT EXCEEDS	32			41			35		
90 PERCENT EXCEEDS	6.0			13			6.9		

GREEN RIVER BASIN

03313700 WEST FORK DRAKES CREEK NEAR FRANKLIN, KY

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

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

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

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

REMARKS.--Estimated daily discharges: Oct. 1-4, and Feb. 3-6. Records good except for periods of estimated record, which are fair. Subsequent to Apr. 24, 1976, records of daily discharge less than about 300 ft³/s does not include approximately 3 ft³/s which is diverted by city of Franklin for municipal supply.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	33	62	68	150	243	1100	343	84	40	227	7.1
2	6.4	36	59	181	130	205	775	259	210	38	134	8.1
3	7.0	40	55	356	120	165	512	212	245	35	88	14
4	8.4	45	52	266	100	134	391	179	168	33	61	39
5	843	38	49	199	90	128	312	153	134	32	49	31
6	373	37	47	166	85	454	253	194	110	31	40	23
7	155	1830	45	147	82	1310	214	2620	93	30	36	20
8	88	958	43	127	89	878	195	1170	121	28	41	25
9	59	446	42	109	106	520	181	654	227	28	41	22
10	44	297	39	100	99	382	154	415	203	26	30	18
11	34	628	37	108	89	308	139	324	238	24	27	14
12	29	503	36	313	78	264	130	258	230	24	28	11
13	25	323	37	313	71	229	130	202	196	24	25	9.2
14	24	233	39	304	72	200	126	166	171	24	22	8.0
15	22	181	39	298	72	182	115	654	141	82	20	8.3
16	20	146	40	253	66	187	106	471	116	89	18	146
17	18	121	40	220	61	352	95	311	97	44	21	188
18	15	108	54	243	59	252	90	236	82	34	19	65
19	15	94	90	888	229	717	88	194	109	31	16	39
20	17	82	93	468	1100	821	145	163	478	34	14	38
21	17	74	80	337	621	644	211	138	230	32	13	38
22	18	65	71	255	406	568	198	118	155	64	12	32
23	15	79	64	218	315	727	1770	103	117	70	12	28
24	13	144	59	838	242	744	1000	91	96	45	11	24
25	12	121	54	539	191	1060	599	82	87	35	11	21
26	14	106	52	388	168	816	449	75	70	29	10	17
27	84	95	50	349	155	511	324	88	59	26	11	1110
28	136	84	47	267	471	409	251	620	52	25	12	1990
29	69	72	44	235	324	342	227	243	49	75	12	690
30	46	65	43	208	---	276	495	143	43	186	10	353
31	36	---	49	177	---	634	---	104	---	237	8.8	---
TOTAL	2268.8	7084	1611	8938	5841	14662	10775	10983	4411	1555	1079.8	5036.7
MEAN	73.2	236	52.0	288	201	473	359	354	147	50.2	34.8	168
MAX	843	1830	93	888	1100	1310	1770	2620	478	237	227	1990
MIN	6.0	33	36	68	59	128	88	75	43	24	8.8	7.1
CFSM	.67	2.15	.47	2.62	1.83	4.30	3.27	3.22	1.34	.46	.32	1.53
IN.	.77	2.40	.54	3.02	1.98	4.96	3.64	3.71	1.49	.53	.37	1.70

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1996, BY WATER YEAR (WY)

MEAN	45.2	135	300	301	371	383	258	220	145	63.6	33.4	65.4
MAX	219	474	971	867	1356	1412	568	982	637	251	142	677
(WY)	1976	1980	1979	1974	1989	1975	1979	1983	1974	1989	1971	1979
MIN	1.87	14.5	11.8	10.4	138	118	38.3	22.8	18.7	5.47	2.80	2.28
(WY)	1988	1988	1981	1981	1980	1981	1986	1988	1985	1985	1986	1986

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1968 - 1996	
ANNUAL TOTAL	54954.1		74245.3			
ANNUAL MEAN	151		203		193	
HIGHEST ANNUAL MEAN					351	
LOWEST ANNUAL MEAN					87.8	
HIGHEST DAILY MEAN	2600	Mar 8	2620	May 7	12800	Mar 12 1975
LOWEST DAILY MEAN	5.6	Sep 25	6.0	Oct 1	.00	Sep 19 1985
ANNUAL SEVEN-DAY MINIMUM	6.2	Sep 23	9.9	Aug 27	.00	Aug 13 1988
INSTANTANEOUS PEAK FLOW			5800	May 7	27300	Mar 12 1975
INSTANTANEOUS PEAK STAGE			10.82	May 7	23.20	Mar 12 1975
ANNUAL RUNOFF (CFSM)	1.37		1.84		1.75	
ANNUAL RUNOFF (INCHES)	18.58		25.11		23.80	
10 PERCENT EXCEEDS	371		505		434	
50 PERCENT EXCEEDS	59		95		70	
90 PERCENT EXCEEDS	12		18		8.8	

GREEN RIVER BASIN

03316500 GREEN RIVER AT PARADISE, KY

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

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

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

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

REMARKS.--Estimated daily discharges: July 14-17 and September 17. Records fair except for periods of estimated record, which are poor. Flow regulated by Green River Lake beginning February 1969, Nolin River Lake beginning March 1963, and Barren River Lake beginning March 1964.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1210	6010	6370	2670	16000	12700	18400	19400	11300	2320	11200	1080
2	1240	6220	6090	3090	15500	12000	22000	17900	11400	2130	9970	982
3	1390	6560	5460	5480	14900	11200	20800	15700	11100	2140	8410	950
4	1660	6580	4880	8930	14000	10300	17800	13500	10100	2010	6870	952
5	2120	6570	4560	11000	12700	9010	14900	11700	9410	1870	5220	942
6	7190	6550	4230	10400	10600	14500	12500	10300	9040	1680	3960	974
7	11100	7090	3580	9910	8000	25100	10900	13000	7420	1510	3110	1040
8	9880	11100	3160	9280	6950	30000	9420	17600	6570	1520	2510	1070
9	7710	16500	3110	8010	6430	31200	7830	20000	8320	1580	2610	1230
10	6970	15100	2850	7000	5990	28400	6630	18500	15600	1680	2930	1750
11	6550	13600	2460	6590	6160	21100	5810	15400	19900	1690	3190	2500
12	6180	14100	2150	7720	6120	17300	5190	14000	25300	1600	2800	2490
13	5910	15000	1940	8710	5770	16500	5010	12700	24700	1500	2490	2010
14	5580	14500	1680	9700	5390	15700	6140	11400	21500	1530	2230	1560
15	4990	13000	1650	11200	5350	15300	6410	10600	15100	2600	2360	1340
16	4850	11900	1680	12100	5420	15300	5980	10100	13600	3870	2600	1510
17	4480	10800	1850	13200	5090	15400	5190	9670	12900	6150	2640	1910
18	3990	10300	2430	14100	4840	15700	4530	8620	12600	6390	2570	3750
19	4220	9840	3770	18600	4850	18700	4080	7590	14000	5050	2530	4950
20	4520	9530	5730	21700	10600	23000	6340	6830	15200	4290	2430	4580
21	4610	9330	7830	23000	17300	24300	9560	6460	14500	5220	2240	4980
22	4810	9110	8770	19700	18400	23600	10000	6120	12900	5900	1900	5310
23	4870	8950	8310	16000	17000	22500	11500	5720	10900	6650	1560	4840
24	4930	8730	7520	20600	16400	22200	16700	5510	9530	8210	1390	4530
25	4910	8410	6860	25300	14600	24900	22100	7380	8330	9090	1290	4010
26	4720	8160	6260	25900	12600	26800	22700	6840	6730	8740	1210	3290
27	5220	7950	5700	23300	10900	24200	21000	3990	5030	7500	1270	4470
28	6340	7580	4850	18800	11800	20400	18900	5220	3880	6290	1240	11900
29	6810	6940	3790	16400	12700	16800	17200	7560	3170	5890	1280	21800
30	6730	6570	3140	16500	---	13600	20000	10400	2690	6850	1260	22200
31	6380	---	2820	16500	---	12800	---	11300	---	10000	1180	---
TOTAL	162070	292580	135480	421390	302360	590510	365520	341010	352720	133450	98450	124900
MEAN	5228	9753	4370	13590	10430	19050	12180	11000	11760	4305	3176	4163
MAX	11100	16500	8770	25900	18400	31200	22700	20000	25300	10000	11200	22200
MIN	1210	6010	1650	2670	4840	9010	4080	3990	2690	1500	1180	942

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1996, BY WATER YEAR (WY)

	MEAN	5236	8374	13930	16990	16410	17370	14210	10800	7312	3932	2972	4194
MAX	16950	19310	42250	36020	26410	35150	34210	25950	20190	8811	8743	22540	
(WY)	1980	1980	1979	1974	1994	1975	1979	1995	1981	1973	1971	1979	
MIN	2463	4030	2103	954	6083	6150	4441	2492	2024	1702	623	739	
(WY)	1981	1972	1981	1981	1977	1981	1978	1976	1972	1993	1993	1995	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1970 - 1996
ANNUAL TOTAL	3290700	3320440	
ANNUAL MEAN	9016	9072	10190
HIGHEST ANNUAL MEAN			18460
LOWEST ANNUAL MEAN			6044
HIGHEST DAILY MEAN	47600	May 22	31200
LOWEST DAILY MEAN	277	Sep 13	942
ANNUAL SEVEN-DAY MINIMUM	320	Sep 8	987
INSTANTANEOUS PEAK FLOW			31600
INSTANTANEOUS PEAK STAGE		20.86	Mar 9
INSTANTANEOUS LOW FLOW			250
10 PERCENT EXCEEDS	20500	18800	23500
50 PERCENT EXCEEDS	6330	6960	6190
90 PERCENT EXCEEDS	1140	1690	1450

GREEN RIVER BASIN

03320000 GREEN RIVER AT LOCK 2, AT CALHOUN, KY

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

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

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

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

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

REMARKS.--Estimated daily discharges: May 19-25. Records good except for period of estimated record and discharges below 1000 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1430	7620	7720	2830	18500	15400	26400	26200	12200	2550	13200	1280
2	1450	7700	7340	3410	18000	14900	30800	24500	12600	2320	12000	1210
3	1600	8030	6400	6300	17300	13800	29800	22500	13800	2220	10200	1140
4	1830	8100	5550	10800	16400	12500	27100	19600	14500	2180	8360	1110
5	2140	8110	5100	12100	15000	11000	23400	15400	12900	2070	6280	1110
6	7280	8110	4720	12500	12300	17900	19800	13100	11600	1930	4670	1160
7	12900	8390	4080	12100	11600	30600	16500	18300	9700	1790	3680	1240
8	12300	12400	3610	11300	9960	36000	13000	23500	8440	1790	2800	1320
9	9660	18800	3320	9680	8550	38000	9940	26200	10200	1770	2770	1440
10	8640	19300	3100	8370	7530	37800	8110	24600	17600	1860	3130	1860
11	8060	16800	2660	7870	7340	32400	7200	20200	23300	1940	3590	2560
12	7540	17300	2370	9040	7270	26000	6350	17600	30100	1890	3070	2590
13	7120	18000	2250	10400	6990	24000	5960	15000	31700	1780	2620	2120
14	6470	17700	2030	11700	6450	23000	7560	12800	30300	1810	2340	1730
15	5760	16400	1910	13300	6280	21100	7960	12800	24700	2930	2480	1560
16	5520	14700	1900	14100	6330	19900	7420	12700	19900	4670	2810	1720
17	5320	13300	2100	14900	6060	21200	6440	11800	17900	7410	2910	2080
18	4890	12400	2640	16000	5770	20800	5540	9770	17000	8230	2810	3880
19	5170	12000	4150	20900	5890	24200	4990	9000	16800	6770	2750	5630
20	5410	11500	6770	24900	12800	30200	8880	8000	17500	5480	2670	5350
21	5550	11300	9460	25500	20500	32100	13900	7500	17400	6300	2460	6160
22	5870	11200	10900	23100	23700	32200	14400	7000	16100	7130	2130	6490
23	6000	10900	10300	17400	22600	31500	14800	6500	13600	7770	1840	5710
24	5970	10500	9290	23400	20500	31800	18700	6000	11300	9530	1620	5210
25	5970	10200	8360	29000	18500	33800	25700	7800	9660	10800	1530	4690
26	5870	9900	7700	30500	16200	35200	27400	7500	8030	10500	1450	3920
27	6440	9570	6940	28500	14500	34100	25700	5200	6070	9040	1480	5760
28	7740	9110	5840	23400	14800	31000	23300	6880	4590	7510	1460	14200
29	8420	8370	4430	20400	15500	27600	23800	9680	3740	6900	1490	23200
30	8360	7980	3660	18700	---	24300	27400	13100	3010	7900	1490	25200
31	7990	---	3180	18300	---	21500	---	13500	---	11100	1410	---
TOTAL	194670	355690	159780	490700	373120	805800	488250	434230	446240	157870	113500	142630
MEAN	6280	11860	5154	15830	12870	25990	16270	14010	14870	5093	3661	4754
MAX	12900	19300	10900	30500	23700	38000	30800	26200	31700	11100	13200	25200
MIN	1430	7620	1900	2830	5770	11000	4990	5200	3010	1770	1410	1110

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1996, BY WATER YEAR (WY)

	MEAN	5573	10670	17010	19480	22850	19790	15840	13690	8369	4637	3009	4562
MAX	19100	22770	46530	41100	52100	40370	42430	50460	23850	12260	8763	27360	
(WY)	1980	1980	1979	1974	1989	1989	1979	1983	1981	1989	1971	1979	
MIN	2138	4874	2496	1223	7116	7479	2260	1706	541	1386	550	879	
(WY)	1988	1972	1981	1981	1977	1981	1986	1988	1988	1988	1991	1987	

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1970 - 1996

ANNUAL TOTAL	3942592	4162480	
ANNUAL MEAN	10800	11370	
HIGHEST ANNUAL MEAN			12070
LOWEST ANNUAL MEAN			22070
HIGHEST DAILY MEAN	53000	May 24	7249
LOWEST DAILY MEAN	434	Sep 14	79300
ANNUAL SEVEN-DAY MINIMUM	462	Sep 8	291
INSTANTANEOUS PEAK FLOW			329
INSTANTANEOUS PEAK STAGE			7480
INSTANTANEOUS LOW FLOW			280
10 PERCENT EXCEEDS	24900	24600	30500
50 PERCENT EXCEEDS	7740	8430	7480
90 PERCENT EXCEEDS	1260	1940	1480

GREEN RIVER BASIN

03320500 POND RIVER NEAR APEX, KY

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

DRAINAGE AREA.--194 mi².

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

REVISED RECORDS.--WSP 1083: 1942-46. WSP 1555: 1945-46(P), drainage area.

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

REMARKS.--Estimated daily discharges: Oct. 5-26, Nov. 2-6, Dec. 3-15, Dec. 19 to Jan. 10, Feb. 1-6, and Mar. 8. Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.98	16	15	35	170	374	2370	1610	65	14	143	7.9
2	.93	14	14	80	140	247	1930	1190	112	13	77	7.6
3	1.5	13	13	300	110	177	1370	716	228	13	50	7.7
4	3.0	12	11	600	90	133	854	433	157	12	37	8.4
5	2.0	12	13	250	70	124	581	272	112	12	27	9.7
6	1.0	10	14	120	62	1880	396	325	74	12	20	11
7	.80	26	17	70	57	2730	281	1670	60	12	43	12
8	.70	72	15	56	57	2210	226	2110	67	17	145	12
9	.60	97	12	54	58	1550	210	1660	102	15	122	14
10	.55	76	8.0	58	64	974	187	1100	371	13	61	30
11	.50	137	7.8	153	67	633	164	675	655	12	33	32
12	.48	290	7.4	884	61	419	146	435	653	12	22	26
13	.46	171	7.2	802	52	286	187	288	374	12	18	19
14	.45	96	7.0	595	47	219	498	207	202	15	14	15
15	.40	62	10	512	45	194	427	320	133	28	14	13
16	.37	44	14	357	43	193	293	476	96	28	12	14
17	.34	31	23	234	39	283	218	305	74	21	11	15
18	.32	25	73	320	37	274	179	195	57	16	10	13
19	.30	20	180	1260	209	1010	155	140	49	15	9.5	13
20	2.0	17	300	1020	2550	1660	920	106	52	14	8.9	14
21	8.0	16	200	582	2070	1570	1250	87	49	16	13	21
22	4.0	14	150	312	1660	1410	1000	77	43	20	11	24
23	2.0	15	110	274	1090	1530	682	76	36	20	9.4	22
24	1.6	20	90	2770	616	1650	522	68	30	17	9.0	20
25	1.4	29	70	1350	376	2030	360	60	24	16	8.7	20
26	1.7	29	60	1750	240	1830	294	56	20	15	8.9	20
27	27	25	50	1230	176	1320	256	68	19	14	8.8	787
28	41	22	40	712	675	883	205	216	17	14	8.6	1370
29	44	19	35	464	586	641	812	229	16	14	8.6	987
30	23	16	30	289	---	460	1890	123	15	82	8.6	681
31	18	---	28	192	---	1090	---	84	---	175	8.0	---
TOTAL	189.38	1446	1624.4	17685	11517	29984	18863	15377	3962	709	980.04	246.3
MEAN	6.11	48.2	52.4	570	397	967	629	496	132	22.9	31.6	142
MAX	44	290	300	2770	2550	2730	2370	2110	655	175	145	1370
MIN	.30	10	7.0	35	37	124	146	56	15	12	8.0	7.6
CFSM	.03	.25	.27	2.94	2.05	4.99	3.24	2.56	.68	.12	.16	.73
IN.	.04	.28	.31	3.39	2.21	5.75	3.62	2.95	.76	.14	.19	.81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1996, BY WATER YEAR (WY)

MEAN	20.4	176	398	464	633	594	438	321	107	61.7	32.0	60.7
MAX	208	1430	2167	2024	3988	1631	1822	2607	900	440	239	988
(WY)	1986	1958	1979	1950	1989	1975	1979	1984	1969	1989	1984	1979
MIN	.000	.000	.000	3.56	42.6	35.2	39.2	6.46	1.37	.44	.19	.000
(WY)	1954	1954	1964	1981	1941	1941	1986	1941	1964	1964	1993	1953

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1941 - 1996	
ANNUAL TOTAL	77200.54		106583.08			
ANNUAL MEAN	212		291		274	
HIGHEST ANNUAL MEAN					643	
LOWEST ANNUAL MEAN					59.8	
HIGHEST DAILY MEAN	5310	May 19	2770	Jan 24	28400	Feb 15 1989
LOWEST DAILY MEAN	.00	Sep 9	.30	Oct 19	.00	Oct 21 1940
ANNUAL SEVEN-DAY MINIMUM	.06	Sep 9	.38	Oct 13	.00	Oct 21 1940
INSTANTANEOUS PEAK FLOW			2980	Jan 24	35700	May 7 1984
INSTANTANEOUS PEAK STAGE			15.98	Jan 24	26.81	Nov 19 1957
ANNUAL RUNOFF (CFSM)	1.09		1.50		1.41	
ANNUAL RUNOFF (INCHES)	14.80		20.44		19.17	
10 PERCENT EXCEEDS	446		1000		720	
50 PERCENT EXCEEDS	37		59		46	
90 PERCENT EXCEEDS	1.4		8.5		.70	

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 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 361.80 ft above sea level.

REMARKS.--Estimated daily discharges: many days between December and July. Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	65	59	120	450	700	1400	1700	280	23	241	37
2	10	54	54	180	400	640	1500	2070	300	18	269	40
3	20	49	50	300	360	500	1600	2220	400	17	188	43
4	41	44	47	400	300	440	1400	2250	440	14	115	42
5	46	39	46	800	280	400	1200	2190	400	12	83	42
6	44	36	45	900	260	700	900	2130	340	10	65	41
7	38	43	44	800	280	1400	660	2080	280	12	55	40
8	32	49	43	540	293	1800	500	2060	240	14	50	41
9	28	70	42	400	300	2000	400	2080	220	12	141	43
10	25	109	40	320	340	1900	360	2200	260	10	189	43
11	19	144	38	307	380	1800	340	2300	300	8.0	132	42
12	17	262	35	458	420	1700	320	2400	460	7.0	87	63
13	16	453	34	740	460	1500	300	2400	580	6.0	68	84
14	14	508	36	932	480	1200	600	2200	620	10	59	78
15	13	411	37	1070	440	800	900	2040	560	20	50	71
16	11	287	44	1190	400	600	860	1800	460	40	43	72
17	10	183	46	1270	360	460	800	1500	360	60	39	69
18	9.3	127	56	1290	300	400	700	1200	260	80	37	66
19	8.7	95	131	1200	340	480	600	1000	200	90	34	63
20	11	79	350	1100	500	700	1000	800	170	80	30	62
21	16	68	500	1400	800	1000	1400	600	140	70	28	94
22	17	60	460	1500	1300	1400	1500	480	110	80	27	118
23	16	57	380	1620	1500	1600	1600	360	90	100	29	140
24	13	58	280	1800	1400	1700	1600	280	70	120	30	128
25	11	62	220	1900	1200	1500	1500	220	60	120	26	104
26	11	71	180	2000	900	1400	1400	180	65	100	26	87
27	42	77	160	1900	800	1300	1300	158	55	90	25	146
28	73	74	140	1700	900	1000	1100	177	40	76	31	636
29	95	67	120	1200	800	900	1300	327	32	70	36	866
30	101	63	110	700	---	700	1600	430	26	90	36	968
31	85	---	100	500	---	800	---	360	---	80	36	---
TOTAL	903.0	3764	3927	30537	16943	33420	30640	42192	7818	1539.0	2305	4369
MEAN	29.1	125	127	985	584	1078	1021	1361	261	49.6	74.4	146
MAX	101	508	500	2000	1500	2000	1600	2400	620	120	269	968
MIN	8.7	36	34	120	260	400	300	158	26	6.0	25	37
CFSM	.06	.27	.27	2.10	1.25	2.30	2.18	2.90	.56	.11	.16	.31
IN.	.07	.30	.31	2.42	1.34	2.65	2.43	3.35	.62	.12	.18	.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1996, BY WATER YEAR (WY)

MEAN	21.3	122	285	596	691	962	925	676	183	47.5	36.4	41.2
MAX	33.5	307	542	985	1204	1508	1792	1361	299	58.9	74.4	146
(WY)	1994	1994	1995	1996	1994	1994	1994	1996	1995	1994	1996	1996
MIN	6.08	53.4	82.5	292	420	602	242	82.4	47.4	36.0	5.13	5.69
(WY)	1992	1992	1993	1992	1993	1995	1995	1992	1994	1993	1993	1994

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1992 - 1996

ANNUAL TOTAL	123640.04	178357.0	
ANNUAL MEAN	339	487	381
HIGHEST ANNUAL MEAN			503
LOWEST ANNUAL MEAN			242
HIGHEST DAILY MEAN	3400 May 21	2400 May 12	3520 Jan 30 1994
LOWEST DAILY MEAN	.18 Sep 14	6.0 Jul 13	.03 Aug 28 1993
ANNUAL SEVEN-DAY MINIMUM	.28 Sep 8	9.6 Jul 8	.28 Sep 8 1995
INSTANTANEOUS PEAK FLOW		a	3650 Jan 31 1994
INSTANTANEOUS PEAK STAGE		a	20.94 May 22 1995
ANNUAL RUNOFF (CFSM)	.72	1.04	.81
ANNUAL RUNOFF (INCHES)	9.81	14.15	11.03
10 PERCENT EXCEEDS	991	1500	1200
50 PERCENT EXCEEDS	90	188	95
90 PERCENT EXCEEDS	14	26	11

a unknown

OHIO RIVER MAIN STEM

03322000 OHIO RIVER AT EVANSVILLE, IN

LOCATION.--Lat 37°58'20", long 87°34'35", Vanderburgh County, Hydrologic Unit 05140202, on right bank at Riverside Drive and Court Street, at Evansville, 0.6 mi upstream from Pigeon Creek, and at mile 792.3.

DRAINAGE AREA.--107,000 mi², approximately.

PERIOD OF RECORD.--December 1936 to September 1996 (discontinued). Fragmentary prior to October 1940 and after September 1974. Gage-height records collected at same site since 1873 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 328.64 ft above sea level or 329.18 ft, Ohio River datum. Prior to Feb. 20, 1963, and after Sept. 23, 1963, water-stage recorder at same site and datum. Feb. 20, 1963 to Sept. 23, 1963, nonrecording gage 0.6 mi downstream at same datum. Prior to February 1975 auxiliary nonrecording gage at lock and dam 48, 17.3 mi downstream. From February 1975 to May 23, 1985, auxiliary nonrecording gage at Newburgh lock and dam, 16.3 mi upstream. Since May 23, 1985 water-stage recorder at same site.

REMARKS.--No estimated daily discharges. Records good. Discharge values published are days with mean values 100,000 ft³/s and above. Flow regulated by Ohio River system of Locks and Dams.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	568000	277000	296000	429000	422000	---	101000	---
2	---	---	---	---	543000	310000	342000	434000	414000	---	141000	---
3	---	---	---	---	502000	344000	391000	398000	370000	---	168000	---
4	---	---	---	108000	433000	363000	394000	380000	295000	---	173000	---
5	---	---	---	153000	333000	354000	365000	404000	224000	---	152000	---
6	---	---	---	184000	269000	338000	324000	438000	170000	---	101000	---
7	---	---	---	194000	202000	320000	278000	473000	158000	---	---	---
8	---	---	---	166000	148000	299000	230000	509000	188000	---	---	---
9	---	---	---	124000	130000	306000	188000	535000	228000	---	---	---
10	---	---	---	---	137000	348000	158000	548000	276000	---	---	---
11	---	---	---	---	173000	386000	132000	562000	309000	---	---	---
12	---	---	---	---	222000	394000	122000	579000	319000	---	---	---
13	---	---	---	---	268000	365000	115000	591000	308000	---	---	---
14	---	114000	---	---	292000	313000	110000	584000	298000	---	---	---
15	---	126000	---	---	274000	260000	102000	559000	280000	---	---	---
16	---	131000	---	---	237000	226000	---	533000	246000	---	110000	---
17	---	132000	---	119000	191000	215000	109000	536000	212000	---	119000	---
18	---	125000	---	176000	154000	227000	135000	554000	175000	---	103000	101000
19	---	118000	142000	253000	134000	243000	167000	564000	139000	---	---	117000
20	---	103000	205000	352000	120000	277000	203000	565000	128000	---	---	145000
21	---	---	246000	425000	136000	335000	238000	559000	136000	123000	---	160000
22	---	103000	267000	468000	159000	370000	250000	553000	153000	162000	---	158000
23	---	101000	280000	510000	189000	394000	235000	534000	172000	202000	---	132000
24	---	103000	266000	553000	213000	423000	234000	497000	174000	225000	---	103000
25	---	100000	203000	592000	229000	457000	265000	423000	170000	192000	---	---
26	---	---	122000	624000	234000	473000	273000	331000	143000	145000	---	---
27	---	---	---	645000	231000	453000	259000	302000	123000	126000	---	---
28	---	---	---	648000	234000	393000	245000	311000	128000	104000	---	103000
29	---	---	---	640000	252000	337000	270000	335000	122000	---	---	137000
30	---	---	---	624000	---	299000	370000	376000	---	---	---	161000
31	---	---	---	604000	---	280000	---	408000	---	---	---	---
TOTAL	---	---	---	---	7207000	1037900	---	1480400	---	---	---	---
MEAN	---	---	---	---	248500	334800	---	477500	---	---	---	---
MAX	---	---	---	---	568000	473000	---	591000	---	---	---	---
MIN	---	---	---	---	120000	215000	---	302000	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1974, BY WATER YEAR (WY)

MEAN	33050	67340	133200	190500	230600	295800	243400	168300	99760	62350	46830	33900
MAX	87490	214900	394300	475800	518000	633300	493400	353200	208200	178700	174300	130200
(WY)	1955	1973	1973	1950	1950	1945	1948	1958	1946	1958	1958	1950
MIN	7523	9633	22730	32350	66180	81630	90120	32320	26330	18970	14390	10830
(WY)	1954	1954	1944	1956	1954	1969	1971	1941	1966	1944	1965	1953

SUMMARY STATISTICS FOR 1996 WATER YEAR

WATER YEARS 1941 - 1974

ANNUAL MEAN			133300	
HIGHEST ANNUAL MEAN			193800	1950
LOWEST ANNUAL MEAN			63210	1954
HIGHEST DAILY MEAN	648000	Jan 28	909000	Mar 15 1964
LOWEST DAILY MEAN			6700	Nov 6 1953
ANNUAL SEVEN-DAY MINIMUM			6760	Nov 4 1953
INSTANTANEOUS PEAK FLOW	649000	Jan 28	1410000	Jan 29 1937
INSTANTANEOUS PEAK STAGE	43.16	Jan 28	53.75	Jan 31 1937
10 PERCENT EXCEEDS			328000	
50 PERCENT EXCEEDS			79600	
90 PERCENT EXCEEDS			20000	

TRADEWATER RIVER BASIN

03383000 TRADEWATER RIVER AT OLNEY, KY

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

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

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

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

REMARKS.--Estimated daily discharges: Oct. 8-19, Dec. 6, 8-10, 16, Jan. 5-8, Feb. 1-5, Mar. 1, 2, June 13-15 and Sept. 8. Records fair except for periods of estimated record, which are poor.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	30	29	57	190	260	1500	1930	88	7.3	258	3.1
2	5.1	20	26	113	150	240	1640	1880	128	6.1	171	2.3
3	9.8	17	26	486	120	183	1490	1760	375	5.3	125	2.0
4	26	16	17	647	110	158	971	1130	341	4.2	81	2.1
5	21	16	21	380	96	151	544	497	200	4.0	53	2.2
6	5.4	11	24	200	94	1010	387	377	148	3.6	36	2.1
7	3.2	27	33	150	93	1810	313	929	117	5.4	34	2.4
8	2.9	59	24	120	102	1820	265	1450	109	6.4	136	2.6
9	2.7	87	18	136	115	1790	254	1490	112	5.2	94	2.9
10	2.6	111	16	123	119	1660	241	1460	203	4.2	93	2.7
11	2.4	167	15	134	123	1040	216	977	459	3.3	63	2.5
12	2.4	331	13	598	120	493	191	554	678	2.8	39	2.3
13	2.5	349	12	964	110	335	194	353	540	2.2	27	2.3
14	2.4	173	8.2	804	103	274	365	259	400	2.9	20	2.5
15	2.3	117	13	602	99	267	463	372	220	44	14	2.5
16	2.1	91	25	453	97	266	373	577	149	86	11	4.1
17	1.9	71	53	319	95	254	273	472	115	51	8.7	4.7
18	1.8	57	77	374	92	261	225	275	97	30	7.0	5.8
19	1.7	46	208	1210	175	328	200	191	102	18	6.1	5.5
20	19	38	301	1320	778	939	1310	151	80	15	8.1	4.2
21	23	31	238	903	1180	1250	1940	124	59	19	21	19
22	17	26	170	453	1280	1290	1820	105	49	53	57	153
23	3.7	23	133	353	957	1300	1600	90	37	81	50	124
24	4.0	28	111	1480	464	1270	1050	74	28	59	22	77
25	3.6	40	92	1870	289	1250	589	62	34	36	10	41
26	4.6	49	78	1800	224	1320	415	51	33	23	6.7	24
27	65	51	67	1750	259	1140	355	58	23	15	6.3	94
28	123	48	60	1390	490	713	299	265	18	10	5.3	925
29	81	43	52	700	346	508	892	234	13	39	4.9	1350
30	67	35	45	371	---	413	1840	179	9.5	211	4.6	1030
31	45	---	46	257	---	515	---	121	---	206	3.9	---
TOTAL	558.5	2208	2051.2	20517	8470	24508	22215	18447	4964.5	1058.9	1476.6	3897.8
MEAN	18.0	73.6	66.2	662	292	791	740	595	165	34.2	47.6	130
MAX	123	349	301	1870	1280	1820	1940	1930	678	211	258	1350
MIN	1.7	11	8.2	57	92	151	191	51	9.5	2.2	3.9	2.0
CFSM	.07	.29	.26	2.60	1.15	3.10	2.90	2.33	.65	.13	.19	.51
IN.	.08	.32	.30	2.99	1.24	3.58	3.24	2.69	.72	.15	.22	.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1996, BY WATER YEAR (WY)

MEAN	24.8	209	439	571	747	765	599	399	135	86.8	37.9	52.9
MAX	266	2178	1963	2268	3529	2259	1851	1878	949	946	275	798
(WY)	1986	1958	1979	1950	1989	1964	1979	1983	1969	1989	1985	1950
MIN	.000	.000	.96	4.85	19.2	61.9	53.6	7.09	1.18	.003	.000	.000
(WY)	1941	1954	1964	1964	1964	1941	1986	1941	1944	1952	1952	1953

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1941 - 1996

ANNUAL TOTAL	85480.4	110372.5	
ANNUAL MEAN	234	302	332
HIGHEST ANNUAL MEAN			701
LOWEST ANNUAL MEAN			61.6
HIGHEST DAILY MEAN	3560 May 19	1940 Apr 21	14000 Feb 16 1989
LOWEST DAILY MEAN	1.7 Oct 19	1.7 Oct 19	.00 Oct 1 1940
ANNUAL SEVEN-DAY MINIMUM	2.1 Oct 13	2.1 Oct 13	.00 Oct 1 1940
INSTANTANEOUS PEAK FLOW		1970 Apr 21	14600 Feb 16 1989
INSTANTANEOUS PEAK STAGE		12.55 Apr 21	18.85 Feb 16 1989
ANNUAL RUNOFF (CFSM)	.92	1.18	1.30
ANNUAL RUNOFF (INCHES)	12.47	16.10	17.71
10 PERCENT EXCEEDS	571	1070	1140
50 PERCENT EXCEEDS	59	96	61
90 PERCENT EXCEEDS	3.9	4.0	1.1

CUMBERLAND RIVER BASIN

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

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1979 to current year.

pH: October 1979 to current year.

WATER TEMPERATURES: October 1979 to current year.

DISSOLVED OXYGEN: October 1979 to current year.

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

REMARKS.--Four submersible pumps are located on Martins Fork Dam, at four different elevations referenced to sea level. Pump 1 is located near the bottom of the lake, at an elevation of 1,272 ft; pump 2 is at an elevation of 1,285 ft; pump 3 at an elevation of 1,298 ft; and pump 4 at an elevation of 1,308 ft, occasionally. Each lake level is sampled once every four hours, or six times per day. A maximum and minimum value for each parameter is determined for each level. The monitor was shut down from Nov. 14 to Apr. 1.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

PUMP NUMBER 1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	185	178	180	115	110	114	---	---	---	---	---	---
2	182	178	180	123	119	120	---	---	---	---	---	---
3	182	178	181	131	124	128	---	---	---	---	---	---
4	182	178	180	140	132	136	---	---	---	---	---	---
5	185	182	183	136	132	135	---	---	---	---	---	---
6	185	182	183	133	114	126	---	---	---	---	---	---
7	---	---	---	131	118	121	---	---	---	---	---	---
8	---	---	---	120	107	116	---	---	---	---	---	---
9	---	---	---	124	116	118	---	---	---	---	---	---
10	---	---	---	136	101	120	---	---	---	---	---	---
11	---	---	---	114	106	110	---	---	---	---	---	---
12	---	---	---	123	110	114	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	138	137	138	---	---	---	---	---	---	---	---	---
28	139	134	137	---	---	---	---	---	---	---	---	---
29	139	128	135	---	---	---	---	---	---	---	---	---
30	132	113	123	---	---	---	---	---	---	---	---	---
31	122	110	116	---	---	---	---	---	---	---	---	---
MONTH	185	110	158	140	101	121	---	---	---	---	---	---

CUMBERLAND RIVER BASIN

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

WATER-QUALITY RECORDS

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

PUMP NUMBER 1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	114	98	106	117	109	112
2	---	---	---	---	---	---	118	98	108	113	109	110
3	---	---	---	---	---	---	122	90	109	109	105	108
4	---	---	---	---	---	---	114	90	101	109	105	107
5	---	---	---	---	---	---	107	95	100	109	97	104
6	---	---	---	---	---	---	103	99	102	101	97	100
7	---	---	---	---	---	---	103	95	100	96	92	93
8	---	---	---	---	---	---	99	95	98	100	92	97
9	---	---	---	---	---	---	103	91	100	108	100	105
10	---	---	---	---	---	---	111	99	105	100	92	96
11	---	---	---	---	---	---	115	99	109	100	92	97
12	---	---	---	---	---	---	124	108	120	96	92	94
13	---	---	---	---	---	---	120	112	116	96	88	93
14	---	---	---	---	---	---	116	108	109	96	88	90
15	---	---	---	---	---	---	108	104	105	92	88	90
16	---	---	---	---	---	---	108	104	105	104	88	93
17	---	---	---	---	---	---	108	108	108	100	92	96
18	---	---	---	---	---	---	108	108	108	96	92	93
19	---	---	---	---	---	---	113	109	110	96	92	95
20	---	---	---	---	---	---	113	109	111	96	96	96
21	---	---	---	---	---	---	113	109	110	100	95	97
22	---	---	---	---	---	---	113	109	112	99	95	97
23	---	---	---	---	---	---	121	109	115	99	91	96
24	---	---	---	---	---	---	109	109	109	95	95	95
25	---	---	---	---	---	---	113	109	111	99	95	98
26	---	---	---	---	---	---	113	109	111	99	95	96
27	---	---	---	---	---	---	113	109	110	99	95	96
28	---	---	---	---	---	---	113	109	111	102	99	100
29	---	---	---	---	---	---	113	109	110	106	102	105
30	---	---	---	---	---	---	117	113	116	106	98	101
31	---	---	---	---	---	---	---	---	---	102	90	97
MONTH	---	---	---	---	---	---	124	90	108	117	88	98
	JUNE			JULY			AUGUST			SEPTEMBER		
1	98	90	94	110	106	108	136	78	106	120	112	115
2	94	82	90	110	106	109	78	70	73	120	112	115
3	90	82	86	110	106	109	74	70	72	120	115	117
4	94	90	91	114	110	113	75	70	73	119	115	117
5	90	86	89	114	110	112	79	71	75	119	115	117
6	90	90	90	110	110	110	75	67	72	123	119	120
7	90	90	90	114	110	113	78	75	76	123	115	119
8	94	90	92	118	114	115	86	78	80	123	119	120
9	94	90	91	118	114	115	86	82	84	123	119	121
10	90	86	90	118	114	117	86	82	85	124	120	123
11	94	86	90	122	114	118	90	86	87	127	124	125
12	95	91	93	122	118	120	91	86	88	---	---	---
13	91	91	91	122	118	120	103	91	96	124	124	124
14	95	95	95	123	119	122	103	99	100	127	120	123
15	99	95	96	123	119	122	99	95	96	131	127	128
16	99	95	96	123	123	123	99	95	97	127	126	126
17	99	95	98	123	119	122	99	95	98	130	126	129
18	99	94	98	127	123	125	99	95	98	130	126	127
19	98	94	96	127	124	125	99	99	99	131	131	131
20	102	94	98	131	127	128	104	100	101	131	127	130
21	102	98	99	127	124	126	104	100	103	135	127	132
22	102	98	99	131	127	129	104	100	103	135	131	133
23	102	98	101	132	127	129	104	104	104	135	131	133
24	106	98	102	132	128	130	108	104	106	136	132	135
25	106	102	103	132	128	129	108	104	107	140	132	137
26	106	102	104	129	125	126	112	104	108	140	136	138
27	106	102	103	134	126	131	112	108	109	136	136	136
28	106	106	106	134	126	131	112	108	110	140	136	138
29	110	106	108	135	130	132	112	108	110	141	110	130
30	106	106	106	139	131	133	112	108	111	102	94	97
31	---	---	---	135	131	134	116	112	114	---	---	---
MONTH	110	82	96	139	106	122	136	67	95	141	94	125
YEAR	185	67	111									

CUMBERLAND RIVER BASIN

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

WATER-QUALITY RECORDS
 SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
 PUMP NUMBER 2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	158	150	152	138	129	133	---	---	---	---	---	---
2	154	150	151	134	130	132	---	---	---	---	---	---
3	154	150	153	139	127	135	---	---	---	---	---	---
4	158	150	155	136	131	134	---	---	---	---	---	---
5	158	154	155	140	132	134	---	---	---	---	---	---
6	158	150	152	137	130	134	---	---	---	---	---	---
7	---	---	---	131	126	129	---	---	---	---	---	---
8	---	---	---	127	103	119	---	---	---	---	---	---
9	---	---	---	120	116	118	---	---	---	---	---	---
10	---	---	---	125	113	118	---	---	---	---	---	---
11	---	---	---	114	110	112	---	---	---	---	---	---
12	---	---	---	119	110	114	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	142	133	136	---	---	---	---	---	---	---	---	---
28	139	134	138	---	---	---	---	---	---	---	---	---
29	139	135	137	---	---	---	---	---	---	---	---	---
30	140	132	136	---	---	---	---	---	---	---	---	---
31	133	132	133	---	---	---	---	---	---	---	---	---
MONTH	158	132	145	140	103	126	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	98	94	97	121	113	116
2	---	---	---	---	---	---	106	90	93	113	109	111
3	---	---	---	---	---	---	114	90	101	113	101	110
4	---	---	---	---	---	---	114	90	97	117	105	110
5	---	---	---	---	---	---	103	95	98	117	105	110
6	---	---	---	---	---	---	99	95	98	117	101	111
7	---	---	---	---	---	---	95	91	94	113	100	108
8	---	---	---	---	---	---	95	91	92	116	104	109
9	---	---	---	---	---	---	95	91	94	127	104	116
10	---	---	---	---	---	---	---	---	---	104	92	98
11	---	---	---	---	---	---	107	99	101	120	88	105
12	---	---	---	---	---	---	116	100	106	120	96	106
13	---	---	---	---	---	---	112	104	109	127	100	112
14	---	---	---	---	---	---	112	100	106	112	92	98
15	---	---	---	---	---	---	108	104	107	100	92	97
16	---	---	---	---	---	---	108	104	106	120	92	103
17	---	---	---	---	---	---	108	104	106	120	96	106
18	---	---	---	---	---	---	112	104	107	108	96	100
19	---	---	---	---	---	---	113	109	111	108	96	101
20	---	---	---	---	---	---	113	109	110	108	96	101
21	---	---	---	---	---	---	113	109	112	107	100	104
22	---	---	---	---	---	---	113	109	112	107	103	105
23	---	---	---	---	---	---	125	109	116	103	95	99
24	---	---	---	---	---	---	113	109	110	103	99	101
25	---	---	---	---	---	---	109	109	109	103	95	100
26	---	---	---	---	---	---	117	109	112	103	99	101
27	---	---	---	---	---	---	113	109	110	111	99	103
28	---	---	---	---	---	---	113	109	111	122	99	108
29	---	---	---	---	---	---	125	109	112	118	98	106
30	---	---	---	---	---	---	125	117	119	98	90	95
31	---	---	---	---	---	---	---	---	---	86	78	82
MONTH	---	---	---	---	---	---	125	90	105	127	78	104

CUMBERLAND RIVER BASIN

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

WATER-QUALITY RECORDS
 SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
 PUMP NUMBER 2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	82	78	81	106	102	104	124	74	88	112	108	111
2	98	82	89	106	102	104	85	74	78	116	112	114
3	86	78	81	106	102	104	81	74	78	116	111	114
4	90	78	81	106	102	105	94	82	88	115	111	114
5	82	82	82	110	106	107	98	78	88	119	111	113
6	86	78	82	106	106	106	86	78	81	119	115	116
7	82	82	82	110	106	107	98	86	91	119	115	117
8	86	82	83	110	106	108	106	90	98	---	---	---
9	86	82	84	110	106	109	106	94	99	126	119	120
10	90	86	87	114	106	110	102	90	96	127	120	123
11	99	90	94	114	110	113	102	94	97	127	120	124
12	99	91	94	118	110	115	115	94	102	---	---	---
13	99	91	95	119	110	114	115	103	110	124	120	123
14	99	95	97	119	115	116	107	103	105	127	120	123
15	99	95	97	119	115	117	107	95	102	127	124	126
16	95	91	94	119	115	118	103	95	100	130	124	127
17	99	99	99	119	115	117	103	95	100	130	126	128
18	99	98	98	120	115	119	107	95	100	134	126	129
19	102	94	99	120	120	120	103	95	99	135	127	130
20	102	98	100	120	116	119	112	104	108	135	127	132
21	102	98	99	124	120	121	108	100	105	139	131	136
22	102	98	99	124	120	123	108	100	105	139	135	136
23	102	98	99	125	124	125	108	104	106	147	135	140
24	102	98	100	128	121	125	112	104	108	148	136	143
25	98	98	98	125	121	123	108	104	107	144	140	142
26	102	98	100	126	122	123	112	104	109	144	136	140
27	102	98	100	126	123	124	116	108	111	144	140	143
28	102	98	99	126	123	125	112	108	111	144	140	142
29	106	98	102	127	123	124	112	108	111	145	110	130
30	106	98	102	127	124	126	112	112	112	102	98	99
31	---	---	---	131	124	128	112	112	112	---	---	---
MONTH	106	78	93	131	102	116	124	74	100	148	98	126
YEAR	158	74	111									

PUMP NUMBER 3

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	154	150	152	142	133	137	---	---	---	---	---	---
2	154	150	153	142	134	139	---	---	---	---	---	---
3	154	150	151	143	135	138	---	---	---	---	---	---
4	154	146	150	139	132	136	---	---	---	---	---	---
5	154	150	151	140	132	136	---	---	---	---	---	---
6	154	150	151	137	133	134	---	---	---	---	---	---
7	---	---	---	134	131	132	---	---	---	---	---	---
8	---	---	---	127	120	124	---	---	---	---	---	---
9	---	---	---	120	116	117	---	---	---	---	---	---
10	---	---	---	121	113	117	---	---	---	---	---	---
11	---	---	---	117	109	113	---	---	---	---	---	---
12	---	---	---	118	110	113	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	142	134	138	---	---	---	---	---	---	---	---	---
28	138	134	135	---	---	---	---	---	---	---	---	---
29	139	135	138	---	---	---	---	---	---	---	---	---
30	136	132	135	---	---	---	---	---	---	---	---	---
31	141	136	138	---	---	---	---	---	---	---	---	---
MONTH	154	132	145	143	109	128	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	94	90	91	117	113	116
2	---	---	---	---	---	---	90	82	87	117	113	114
3	---	---	---	---	---	---	94	90	91	121	113	118
4	---	---	---	---	---	---	98	90	93	132	113	121
5	---	---	---	---	---	---	99	91	94	125	117	122
6	---	---	---	---	---	---	95	91	94	132	121	126
7	---	---	---	---	---	---	95	91	92	125	116	122
8	---	---	---	---	---	---	95	91	92	124	112	122
9	---	---	---	---	---	---	95	91	92	139	108	123
10	---	---	---	---	---	---	---	---	---	124	104	113
11	---	---	---	---	---	---	95	95	95	124	108	115
12	---	---	---	---	---	---	100	96	99	131	120	125
13	---	---	---	---	---	---	104	100	101	127	124	126
14	---	---	---	---	---	---	104	100	101	135	124	130
15	---	---	---	---	---	---	108	104	105	131	120	128
16	---	---	---	---	---	---	108	104	105	135	112	125
17	---	---	---	---	---	---	108	104	106	131	120	126
18	---	---	---	---	---	---	108	104	107	135	124	131
19	---	---	---	---	---	---	109	105	108	131	127	129
20	---	---	---	---	---	---	109	105	107	131	127	129
21	---	---	---	---	---	---	109	105	108	131	126	130
22	---	---	---	---	---	---	113	105	108	134	126	130
23	---	---	---	---	---	---	121	109	111	138	130	133
24	---	---	---	---	---	---	109	105	108	134	130	131
25	---	---	---	---	---	---	113	105	109	138	130	134
26	---	---	---	---	---	---	113	109	110	138	134	136
27	---	---	---	---	---	---	113	109	110	154	130	139
28	---	---	---	---	---	---	113	109	112	149	133	140
29	---	---	---	---	---	---	113	109	112	153	125	134
30	---	---	---	---	---	---	117	113	116	141	114	130
31	---	---	---	---	---	---	---	---	---	122	110	118
MONTH	---	---	---	---	---	---	121	82	102	154	104	126
	JUNE			JULY			AUGUST			SEPTEMBER		
1	129	122	124	133	125	130	125	105	117	151	147	148
2	125	114	120	141	129	134	109	101	104	151	147	148
3	122	118	119	137	129	134	117	109	112	155	146	149
4	125	118	122	137	129	134	122	114	117	150	146	148
5	122	118	121	137	133	136	145	118	131	150	146	148
6	133	122	127	137	133	135	145	133	140	150	142	146
7	133	118	130	137	129	134	149	137	142	150	146	147
8	133	129	132	141	137	138	145	141	142	---	---	---
9	133	129	132	141	129	135	145	137	141	150	142	147
10	137	125	131	141	133	136	145	141	142	155	147	149
11	138	130	135	141	137	139	141	137	140	151	147	148
12	142	130	135	141	137	138	149	142	145	---	---	---
13	138	126	134	137	134	136	154	146	149	147	143	145
14	150	142	146	138	134	137	162	150	155	147	143	144
15	146	130	138	138	138	138	162	146	155	147	143	145
16	146	130	141	142	134	138	162	142	149	151	146	147
17	134	126	130	142	138	140	150	146	147	146	142	145
18	141	126	133	143	138	140	150	142	146	146	142	143
19	141	133	137	143	139	141	147	142	145	147	143	145
20	137	133	135	147	143	144	151	143	147	147	143	145
21	145	137	142	143	139	142	147	143	146	147	143	145
22	141	133	139	147	139	145	147	143	145	147	143	146
23	141	133	138	148	144	146	147	143	145	148	147	147
24	141	137	139	148	140	145	147	143	146	148	148	148
25	141	137	138	145	140	143	147	143	144	152	144	147
26	141	133	138	146	137	142	151	139	144	152	148	150
27	141	137	138	142	138	141	147	139	143	148	144	147
28	137	133	136	142	138	140	147	147	147	148	144	146
29	137	133	135	147	138	142	147	143	144	149	145	146
30	137	125	132	143	139	141	147	143	146	149	145	146
31	---	---	---	143	127	139	151	147	148	---	---	---
MONTH	150	114	133	148	125	139	162	101	141	155	142	147
YEAR	162	82	132									

CUMBERLAND RIVER BASIN

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

WATER-QUALITY RECORDS

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

PUMP NUMBER 4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	117	113	116
2	---	---	---	---	---	---	---	---	---	117	113	116
3	---	---	---	---	---	---	---	---	---	121	117	118
4	---	---	---	---	---	---	---	---	---	121	121	121
5	---	---	---	---	---	---	---	---	---	121	117	120
6	---	---	---	---	---	---	---	---	---	125	117	121
7	---	---	---	---	---	---	---	---	---	121	116	120
8	---	---	---	---	---	---	---	---	---	124	116	117
9	---	---	---	---	---	---	---	---	---	124	116	119
10	---	---	---	---	---	---	---	---	---	124	120	122
11	---	---	---	---	---	---	---	---	---	124	124	124
12	---	---	---	---	---	---	---	---	---	127	124	124
13	---	---	---	---	---	---	---	---	---	127	124	126
14	---	---	---	---	---	---	---	---	---	135	127	128
15	---	---	---	---	---	---	---	---	---	131	127	128
16	---	---	---	---	---	---	---	---	---	131	124	127
17	---	---	---	---	---	---	---	---	---	131	127	128
18	---	---	---	---	---	---	---	---	---	131	127	130
19	---	---	---	---	---	---	---	---	---	131	127	130
20	---	---	---	---	---	---	---	---	---	135	131	132
21	---	---	---	---	---	---	---	---	---	134	127	130
22	---	---	---	---	---	---	---	---	---	134	126	129
23	---	---	---	---	---	---	---	---	---	130	126	128
24	---	---	---	---	---	---	---	---	---	134	130	131
25	---	---	---	---	---	---	---	---	---	130	126	127
26	---	---	---	---	---	---	---	---	---	130	126	127
27	---	---	---	---	---	---	---	---	---	130	126	127
28	---	---	---	---	---	---	---	---	---	130	125	127
29	---	---	---	---	---	---	---	---	---	149	114	124
30	---	---	---	---	---	---	117	113	115	129	122	127
31	---	---	---	---	---	---	---	---	---	129	129	129
MONTH	---	---	---	---	---	---	117	113	115	149	113	125
	JUNE			JULY			AUGUST			SEPTEMBER		
1	133	125	129	141	137	138	135	121	128	151	147	150
2	133	129	130	141	137	138	128	121	126	151	147	150
3	133	125	129	141	137	138	136	128	130	151	146	147
4	133	129	130	137	133	136	137	133	136	150	146	148
5	133	129	130	141	137	138	137	133	134	150	146	147
6	133	129	131	141	137	138	137	133	135	150	146	147
7	133	129	132	141	137	138	137	133	134	150	146	148
8	133	129	130	141	137	139	141	137	138	---	---	---
9	133	129	131	141	137	138	141	133	137	150	146	148
10	133	129	130	141	137	138	137	137	137	151	147	149
11	134	129	131	141	137	138	141	137	138	151	147	150
12	134	130	133	141	137	138	141	137	138	---	---	---
13	134	130	131	142	137	141	146	138	142	147	143	145
14	138	134	135	138	138	138	150	146	147	147	143	144
15	134	130	133	142	138	141	150	142	144	147	143	146
16	138	134	135	138	138	138	146	142	143	151	142	147
17	138	134	137	142	138	141	146	146	146	146	142	143
18	137	133	135	143	139	141	150	146	147	147	142	144
19	141	133	137	143	139	140	146	143	145	147	143	145
20	137	133	136	143	139	140	151	147	150	147	143	146
21	137	133	136	143	139	142	151	147	148	147	143	145
22	141	137	138	143	139	142	151	147	148	147	143	146
23	141	137	140	144	140	142	151	151	151	148	143	145
24	141	137	138	148	140	144	151	147	149	148	144	147
25	141	137	140	148	137	143	151	147	150	152	144	148
26	137	133	136	146	141	143	151	147	150	152	144	147
27	141	137	138	146	142	143	151	147	149	148	144	145
28	141	137	140	146	142	143	151	147	148	148	144	145
29	141	137	140	147	138	143	151	147	148	145	145	145
30	141	137	140	147	143	144	151	147	149	145	141	144
31	---	---	---	139	131	138	151	147	150	---	---	---
MONTH YEAR	141 152	125 113	134 137	148	131	140	151	121	142	152	141	146

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.8	6.6	6.7	6.7	---	---	---	---	---	---	---	---
2	6.7	6.7	6.7	6.7	---	---	---	---	---	---	---	---
3	6.7	6.7	6.7	6.7	---	---	---	---	---	---	---	---
4	6.7	6.7	6.9	6.7	---	---	---	---	---	---	---	---
5	6.7	6.7	6.8	6.7	---	---	---	---	---	---	---	---
6	6.7	6.7	6.8	6.7	---	---	---	---	---	---	---	---
7	6.7	6.7	6.8	6.7	---	---	---	---	---	---	---	---
8	6.8	6.7	6.8	6.7	---	---	---	---	---	---	---	---
9	6.8	6.8	6.8	6.7	---	---	---	---	---	---	---	---
10	6.8	6.8	6.8	6.7	---	---	---	---	---	---	---	---
11	6.8	6.7	6.8	6.7	---	---	---	---	---	---	---	---
12	6.8	6.6	6.8	6.7	---	---	---	---	---	---	---	---
13	6.7	6.6	6.7	6.7	---	---	---	---	---	---	---	---
14	6.6	6.6	---	---	---	---	---	---	---	---	---	---
15	6.6	6.6	---	---	---	---	---	---	---	---	---	---
16	6.6	6.6	---	---	---	---	---	---	---	---	---	---
17	6.6	6.6	---	---	---	---	---	---	---	---	---	---
18	6.6	6.6	---	---	---	---	---	---	---	---	---	---
19	6.7	6.6	---	---	---	---	---	---	---	---	---	---
20	6.7	6.7	---	---	---	---	---	---	---	---	---	---
21	6.7	6.7	---	---	---	---	---	---	---	---	---	---
22	6.7	6.7	---	---	---	---	---	---	---	---	---	---
23	6.7	6.5	---	---	---	---	---	---	---	---	---	---
24	6.5	6.5	---	---	---	---	---	---	---	---	---	---
25	6.6	6.5	---	---	---	---	---	---	---	---	---	---
26	6.5	6.5	---	---	---	---	---	---	---	---	---	---
27	6.5	6.5	---	---	---	---	---	---	---	---	---	---
28	6.9	6.6	---	---	---	---	---	---	---	---	---	---
29	6.9	6.8	---	---	---	---	---	---	---	---	---	---
30	6.8	6.7	---	---	---	---	---	---	---	---	---	---
31	6.7	6.7	---	---	---	---	---	---	---	---	---	---
MONTH	6.9	6.5	6.9	6.7	---	---	---	---	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	7.1	6.8	6.7	6.7	6.7	6.7	6.8	6.6	6.7	6.7
2	6.7	6.5	7.1	7.0	6.8	6.7	6.7	6.7	6.6	6.6	6.7	6.7
3	6.7	6.6	7.0	7.0	6.7	6.7	6.8	6.7	6.6	6.6	6.7	6.6
4	6.6	6.5	7.0	7.0	6.7	6.5	6.8	6.7	6.7	6.6	6.7	6.7
5	6.5	6.2	7.2	7.0	6.5	6.5	6.8	6.7	6.7	6.5	6.7	6.7
6	6.3	6.2	7.0	7.0	6.5	6.5	6.8	6.7	6.5	6.5	6.7	6.7
7	6.3	6.1	7.0	6.8	6.5	6.5	6.8	6.8	6.5	6.5	6.7	6.6
8	6.2	6.2	6.9	6.8	6.5	6.5	6.8	6.7	6.5	6.5	6.7	6.6
9	6.4	6.2	7.0	6.9	6.5	6.5	6.8	6.8	6.5	6.5	6.6	6.6
10	6.3	6.3	6.9	6.9	6.6	6.5	6.8	6.8	6.5	6.5	6.7	6.7
11	7.2	6.3	7.0	6.9	6.7	6.6	6.8	6.7	6.5	6.5	6.7	6.7
12	7.3	6.5	6.9	6.8	6.7	6.6	6.8	6.7	6.6	6.5	---	---
13	6.7	6.5	6.9	6.8	6.7	6.6	6.8	6.7	6.6	6.5	6.7	6.7
14	6.8	6.5	6.8	6.6	6.7	6.6	6.7	6.7	6.6	6.5	6.7	6.7
15	6.6	6.6	6.6	6.6	6.7	6.6	6.8	6.7	6.7	6.6	6.7	6.7
16	7.0	6.6	6.8	6.6	6.7	6.6	6.8	6.7	6.6	6.6	6.7	6.6
17	6.7	6.7	6.7	6.6	6.6	6.6	6.7	6.7	6.6	6.6	6.7	6.7
18	6.9	6.7	6.7	6.6	6.7	6.6	6.7	6.7	6.6	6.6	6.7	6.7
19	7.0	6.7	6.7	6.6	6.6	6.5	6.8	6.7	6.6	6.6	6.6	6.5
20	6.9	6.5	6.7	6.7	6.6	6.5	6.7	6.7	6.5	6.5	6.6	6.5
21	7.3	6.5	6.8	6.7	6.6	6.5	6.7	6.7	6.5	6.5	6.6	6.6
22	7.3	7.0	6.7	6.6	6.5	6.5	6.7	6.7	6.5	6.5	6.6	6.6
23	7.4	7.3	6.7	6.6	6.6	6.5	6.7	6.7	6.5	6.5	6.6	6.6
24	7.4	7.2	6.7	6.6	6.6	6.5	6.7	6.7	6.5	6.5	6.6	6.6
25	7.2	7.1	6.7	6.6	6.5	6.5	6.9	6.7	6.6	6.5	6.6	6.6
26	7.1	7.0	6.6	6.6	6.6	6.5	6.9	6.8	6.6	6.5	6.7	6.6
27	7.1	6.9	6.6	6.6	6.6	6.5	6.9	6.8	6.7	6.6	6.6	6.6
28	7.0	7.0	6.8	6.6	6.6	6.6	6.8	6.7	6.7	6.6	6.6	6.6
29	7.0	7.0	6.8	6.7	6.6	6.5	6.7	6.7	6.7	6.6	6.6	6.5
30	7.0	6.9	6.8	6.7	6.7	6.7	6.7	6.7	6.7	6.6	6.5	6.5
31	---	---	6.8	6.7	---	---	6.8	6.8	6.7	6.6	---	---
MONTH	7.4	6.1	7.2	6.6	6.8	6.5	6.9	6.7	6.8	6.5	6.7	6.5
YEAR	7.4	6.1										

CUMBERLAND RIVER BASIN

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

WATER-QUALITY RECORDS

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

PUMP NUMBER 2

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.5	6.4	6.8	6.7	---	---	---	---	---	---	---	---
2	6.5	6.5	6.8	6.7	---	---	---	---	---	---	---	---
3	6.5	6.5	6.8	6.7	---	---	---	---	---	---	---	---
4	6.5	6.5	6.9	6.8	---	---	---	---	---	---	---	---
5	6.5	6.5	6.8	6.8	---	---	---	---	---	---	---	---
6	6.7	6.5	6.8	6.8	---	---	---	---	---	---	---	---
7	6.6	6.5	6.8	6.7	---	---	---	---	---	---	---	---
8	6.6	6.5	6.8	6.6	---	---	---	---	---	---	---	---
9	6.6	6.6	6.8	6.7	---	---	---	---	---	---	---	---
10	6.6	6.6	6.8	6.7	---	---	---	---	---	---	---	---
11	6.6	6.6	6.8	6.7	---	---	---	---	---	---	---	---
12	6.7	6.6	6.8	6.7	---	---	---	---	---	---	---	---
13	6.7	6.4	6.8	6.7	---	---	---	---	---	---	---	---
14	6.5	6.4	---	---	---	---	---	---	---	---	---	---
15	6.6	6.4	---	---	---	---	---	---	---	---	---	---
16	6.6	6.4	---	---	---	---	---	---	---	---	---	---
17	6.5	6.5	---	---	---	---	---	---	---	---	---	---
18	6.5	6.4	---	---	---	---	---	---	---	---	---	---
19	6.6	6.4	---	---	---	---	---	---	---	---	---	---
20	6.7	6.6	---	---	---	---	---	---	---	---	---	---
21	6.7	6.5	---	---	---	---	---	---	---	---	---	---
22	6.7	6.7	---	---	---	---	---	---	---	---	---	---
23	6.7	6.6	---	---	---	---	---	---	---	---	---	---
24	6.7	6.6	---	---	---	---	---	---	---	---	---	---
25	6.7	6.6	---	---	---	---	---	---	---	---	---	---
26	6.7	6.7	---	---	---	---	---	---	---	---	---	---
27	6.8	6.6	---	---	---	---	---	---	---	---	---	---
28	6.8	6.7	---	---	---	---	---	---	---	---	---	---
29	6.9	6.8	---	---	---	---	---	---	---	---	---	---
30	6.8	6.8	---	---	---	---	---	---	---	---	---	---
31	6.8	6.8	---	---	---	---	---	---	---	---	---	---
MONTH	6.9	6.4	6.9	6.6	---	---	---	---	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	7.1	6.9	6.9	6.8	6.7	6.6	6.7	6.6	6.6	6.5
2	6.7	6.5	7.1	7.1	6.9	6.8	6.7	6.6	6.6	6.6	6.6	6.5
3	6.7	6.6	7.2	7.0	6.9	6.7	6.7	6.6	6.6	6.6	6.6	6.4
4	6.6	6.5	7.2	7.1	6.8	6.6	6.7	6.6	6.7	6.6	6.5	6.4
5	6.5	6.3	7.4	7.1	6.7	6.6	6.7	6.6	6.6	6.5	6.5	6.4
6	6.3	6.3	7.2	7.1	6.7	6.6	6.7	6.6	6.6	6.5	6.5	6.4
7	6.3	6.2	7.2	7.0	6.7	6.6	6.8	6.6	6.6	6.5	6.4	6.4
8	6.4	6.3	7.1	6.9	6.7	6.6	6.7	6.6	6.6	6.5	---	---
9	6.5	6.3	7.1	7.0	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.4
10	---	---	7.0	6.9	6.7	6.5	6.6	6.6	6.5	6.5	6.6	6.5
11	7.3	6.5	7.1	7.0	6.8	6.7	6.6	6.5	6.5	6.5	6.6	6.5
12	7.4	6.6	7.1	6.9	6.8	6.7	6.6	6.5	6.6	6.5	---	---
13	6.9	6.5	7.1	6.9	6.8	6.7	6.6	6.5	6.6	6.6	6.6	6.5
14	6.8	6.6	7.0	6.8	6.8	6.8	6.5	6.5	6.6	6.6	6.6	6.5
15	6.7	6.6	6.8	6.7	6.8	6.7	6.5	6.5	6.7	6.6	6.6	6.5
16	7.1	6.7	6.9	6.7	6.8	6.7	6.5	6.5	6.7	6.6	6.6	6.5
17	6.7	6.7	6.8	6.7	6.8	6.8	6.5	6.5	6.7	6.6	6.5	6.5
18	7.0	6.8	6.8	6.7	6.8	6.7	6.5	6.5	6.6	6.6	6.5	6.5
19	7.0	6.7	6.8	6.7	6.7	6.7	6.5	6.5	6.6	6.6	6.5	6.4
20	6.9	6.6	6.8	6.7	6.7	6.6	6.5	6.5	6.6	6.5	6.5	6.5
21	7.4	6.6	6.8	6.8	6.7	6.6	6.5	6.5	6.6	6.5	6.6	6.5
22	7.4	7.0	6.8	6.8	6.7	6.6	6.5	6.5	6.5	6.5	6.5	6.5
23	7.5	7.3	6.8	6.7	6.7	6.5	6.5	6.5	6.5	6.5	6.5	6.5
24	7.4	7.2	6.8	6.8	6.6	6.6	6.5	6.5	6.5	6.4	6.5	6.5
25	7.3	7.1	6.8	6.7	6.6	6.5	6.5	6.4	6.5	6.4	6.5	6.5
26	7.2	7.1	6.8	6.7	6.6	6.5	6.5	6.5	6.5	6.5	6.5	6.4
27	7.2	7.0	6.8	6.7	6.6	6.6	6.5	6.5	6.6	6.5	6.5	6.5
28	7.1	7.0	7.0	6.7	6.6	6.6	6.5	6.4	6.6	6.5	6.6	6.4
29	7.1	7.0	6.9	6.8	6.6	6.5	6.5	6.5	6.6	6.5	6.6	6.5
30	7.0	7.0	6.9	6.8	6.7	6.6	6.5	6.5	6.6	6.5	6.5	6.5
31	---	---	6.9	6.8	---	---	6.6	6.6	6.6	6.5	---	---
MONTH YEAR	7.5 7.5	6.2 6.2	7.4	6.7	6.9	6.5	6.8	6.4	6.7	6.4	6.6	6.4

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.8	6.6	6.8	6.8	---	---	---	---	---	---	---	---
2	6.8	6.6	6.9	6.8	---	---	---	---	---	---	---	---
3	6.8	6.7	6.9	6.9	---	---	---	---	---	---	---	---
4	6.9	6.7	6.9	6.8	---	---	---	---	---	---	---	---
5	6.7	6.6	6.8	6.8	---	---	---	---	---	---	---	---
6	6.8	6.7	6.8	6.8	---	---	---	---	---	---	---	---
7	6.8	6.7	6.8	6.8	---	---	---	---	---	---	---	---
8	6.8	6.7	6.8	6.8	---	---	---	---	---	---	---	---
9	6.8	6.8	6.8	6.7	---	---	---	---	---	---	---	---
10	6.8	6.8	6.8	6.7	---	---	---	---	---	---	---	---
11	6.8	6.8	6.8	6.7	---	---	---	---	---	---	---	---
12	6.8	6.6	6.8	6.7	---	---	---	---	---	---	---	---
13	6.7	6.6	6.8	6.7	---	---	---	---	---	---	---	---
14	6.7	6.6	---	---	---	---	---	---	---	---	---	---
15	6.6	6.6	---	---	---	---	---	---	---	---	---	---
16	6.6	6.6	---	---	---	---	---	---	---	---	---	---
17	6.6	6.6	---	---	---	---	---	---	---	---	---	---
18	6.6	6.6	---	---	---	---	---	---	---	---	---	---
19	6.7	6.6	---	---	---	---	---	---	---	---	---	---
20	6.7	6.7	---	---	---	---	---	---	---	---	---	---
21	6.7	6.7	---	---	---	---	---	---	---	---	---	---
22	6.8	6.7	---	---	---	---	---	---	---	---	---	---
23	6.8	6.7	---	---	---	---	---	---	---	---	---	---
24	6.8	6.7	---	---	---	---	---	---	---	---	---	---
25	6.8	6.7	---	---	---	---	---	---	---	---	---	---
26	6.8	6.7	---	---	---	---	---	---	---	---	---	---
27	6.8	6.7	---	---	---	---	---	---	---	---	---	---
28	6.9	6.8	---	---	---	---	---	---	---	---	---	---
29	6.9	6.8	---	---	---	---	---	---	---	---	---	---
30	6.9	6.8	---	---	---	---	---	---	---	---	---	---
31	6.8	6.8	---	---	---	---	---	---	---	---	---	---
MONTH	6.9	6.6	6.9	6.7	---	---	---	---	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	7.4	7.0	7.1	7.0	7.1	7.0	6.7	6.6	7.0	7.0
2	6.7	6.6	7.2	7.2	7.0	7.0	7.2	7.0	6.7	6.6	7.0	7.0
3	6.7	6.5	7.3	7.2	7.0	7.0	7.1	7.0	6.7	6.6	7.0	6.9
4	6.6	6.4	7.4	7.2	7.1	6.9	7.1	7.0	6.7	6.6	7.0	6.9
5	6.4	6.4	7.4	7.2	6.9	6.9	7.1	7.0	6.7	6.6	7.0	6.9
6	6.4	6.3	7.4	7.2	7.1	6.9	7.1	7.0	6.7	6.6	7.0	6.9
7	6.4	6.3	7.4	7.1	7.2	6.9	7.1	7.0	6.7	6.6	7.0	6.9
8	6.4	6.3	7.5	7.1	7.0	6.9	7.1	7.0	6.8	6.6	---	---
9	6.5	6.3	7.3	7.1	7.0	6.9	7.1	6.9	6.9	6.7	7.0	6.9
10	---	---	7.2	7.1	7.0	6.9	7.0	7.0	6.9	6.8	7.0	6.9
11	7.3	6.9	7.1	7.0	7.2	6.9	7.1	7.0	6.9	6.7	7.0	7.0
12	7.4	6.5	7.1	7.0	7.3	7.0	7.1	7.1	6.9	6.7	---	---
13	6.7	6.5	7.2	6.9	7.1	6.9	7.1	7.0	6.9	6.7	7.0	6.9
14	6.8	6.6	7.0	6.8	7.1	7.0	7.1	6.9	6.9	6.8	6.9	6.8
15	6.8	6.7	7.2	6.8	7.1	7.1	7.1	7.0	7.0	6.8	6.8	6.7
16	7.1	6.8	7.1	6.8	7.2	7.0	7.0	6.9	6.9	6.8	6.8	6.7
17	6.8	6.8	7.3	6.8	7.2	7.2	6.9	6.9	6.9	6.8	6.7	6.7
18	7.2	6.8	7.1	6.8	7.3	7.1	7.0	6.8	6.9	6.8	6.7	6.6
19	7.1	6.8	6.9	6.8	7.2	7.1	7.0	6.8	6.9	6.7	6.7	6.6
20	7.0	6.6	7.0	6.8	7.3	7.2	6.9	6.8	6.9	6.8	6.7	6.6
21	7.4	6.7	7.1	6.9	7.3	7.3	7.0	6.7	6.9	6.9	6.8	6.6
22	7.5	7.1	7.1	7.0	7.3	7.3	6.9	6.7	6.9	6.9	6.8	6.6
23	7.5	7.4	7.1	7.0	7.2	7.0	6.9	6.8	7.0	6.9	6.8	6.7
24	7.5	7.3	7.1	7.0	7.2	7.1	6.9	6.8	6.9	6.8	6.8	6.7
25	7.4	7.3	7.1	6.8	7.2	6.9	7.0	6.8	6.9	6.9	6.7	6.7
26	7.4	7.2	7.1	7.0	7.2	7.1	6.9	6.8	7.0	6.9	6.7	6.7
27	7.2	7.1	7.2	7.0	7.2	7.1	6.9	6.8	7.0	7.0	6.8	6.7
28	7.3	7.2	7.2	6.8	7.1	7.1	6.9	6.7	7.0	6.9	6.8	6.7
29	7.3	7.2	7.3	7.0	7.1	7.0	6.9	6.7	7.0	7.0	6.7	6.5
30	7.2	7.0	7.2	7.0	7.1	7.0	7.0	6.9	7.0	7.0	6.5	6.4
31	---	---	7.1	7.0	---	---	7.0	6.6	7.0	7.0	---	---
MONTH	7.5	6.3	7.5	6.8	7.3	6.9	7.2	6.6	7.0	6.6	7.0	6.4
YEAR	7.5	6.3										

CUMBERLAND RIVER BASIN

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

WATER-QUALITY RECORDS
PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
PUMP NUMBER 4

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	7.4	7.2	7.3	7.1	7.2	7.2	6.9	6.5	7.0	7.0
2	---	---	7.4	7.3	7.3	7.2	7.2	7.1	6.6	6.5	7.0	7.0
3	---	---	7.4	7.3	7.3	7.2	7.2	7.2	6.8	6.6	7.1	7.0
4	---	---	7.6	7.3	7.2	7.1	7.3	7.1	6.9	6.7	7.0	7.0
5	---	---	7.6	7.4	7.2	7.1	7.3	7.1	6.9	6.7	7.1	7.0
6	---	---	7.4	7.4	7.3	7.1	7.2	7.2	6.9	6.8	7.0	7.0
7	---	---	7.5	7.3	7.3	7.1	7.2	7.2	7.0	6.9	7.0	6.9
8	---	---	7.4	7.3	7.3	7.2	7.2	7.1	7.0	6.9	---	---
9	---	---	7.8	7.3	7.3	7.2	7.2	7.1	7.0	6.9	7.1	7.0
10	---	---	7.7	7.3	7.3	7.2	7.2	7.1	7.0	7.0	7.1	7.1
11	---	---	7.4	7.3	7.4	7.2	7.3	7.1	7.0	6.9	7.1	7.0
12	---	---	7.4	7.3	7.4	7.3	7.2	7.1	7.0	6.9	---	---
13	---	---	7.4	7.3	7.4	7.3	7.2	7.1	7.0	7.0	7.0	7.0
14	---	---	7.3	7.2	7.4	7.3	7.1	7.1	7.0	6.9	7.0	6.9
15	---	---	7.2	7.1	7.4	7.4	7.1	7.1	7.0	7.0	6.9	6.8
16	---	---	7.3	7.2	7.3	7.3	7.1	7.1	7.0	7.0	6.8	6.7
17	---	---	7.3	7.1	7.4	7.3	7.2	7.1	7.0	7.0	6.7	6.7
18	---	---	7.2	7.2	7.3	7.2	7.2	7.1	7.0	7.0	6.8	6.7
19	---	---	7.2	7.1	7.3	7.2	7.1	7.1	7.0	7.0	6.7	6.6
20	---	---	7.2	7.1	7.3	7.2	7.1	7.1	7.1	7.0	6.8	6.6
21	---	---	7.2	7.1	7.3	7.2	7.1	7.1	7.1	7.0	6.8	6.7
22	---	---	7.3	7.2	7.3	7.2	7.1	7.1	7.1	7.0	6.9	6.7
23	---	---	7.3	7.2	7.2	7.1	7.1	7.0	7.1	7.0	6.9	6.8
24	---	---	7.2	7.2	7.2	7.1	7.0	6.9	7.0	7.0	6.9	6.8
25	---	---	7.2	7.2	7.3	7.1	7.0	7.0	7.0	7.0	6.9	6.8
26	---	---	7.2	7.2	7.2	7.2	7.0	6.9	7.1	7.0	6.9	6.8
27	---	---	7.2	7.2	7.2	7.1	7.0	6.9	7.1	7.0	6.9	6.8
28	---	---	7.3	7.2	7.2	7.1	6.9	6.9	7.1	7.0	6.8	6.7
29	---	---	7.3	7.2	7.3	7.1	7.0	6.9	7.1	7.0	6.7	6.6
30	7.3	7.1	7.2	7.1	7.2	7.2	7.1	6.9	7.1	7.0	6.7	6.5
31	---	---	7.3	7.2	---	---	7.0	6.6	7.0	7.0	---	---
MONTH	7.3	7.1	7.8	7.1	7.4	7.1	7.3	6.6	7.1	6.5	7.1	6.5
YEAR	7.8	6.5										

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
PUMP NUMBER 1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	16.8	16.4	16.6	15.7	15.3	15.4	---	---	---	---	---	---
2	16.8	16.4	16.6	15.5	15.1	15.3	---	---	---	---	---	---
3	16.6	16.6	16.6	15.7	15.3	15.5	---	---	---	---	---	---
4	16.8	16.6	16.6	15.9	15.3	15.7	---	---	---	---	---	---
5	16.8	16.6	16.6	15.3	14.7	15.1	---	---	---	---	---	---
6	16.8	16.6	16.6	14.7	13.9	14.4	---	---	---	---	---	---
7	16.8	16.4	16.6	14.1	13.5	13.8	---	---	---	---	---	---
8	16.6	16.6	16.6	13.7	13.3	13.5	---	---	---	---	---	---
9	16.6	16.6	16.6	13.3	12.9	13.2	---	---	---	---	---	---
10	16.8	16.6	16.7	13.1	12.7	12.8	---	---	---	---	---	---
11	16.8	16.6	16.7	12.9	12.5	12.7	---	---	---	---	---	---
12	16.6	16.6	16.6	12.3	11.9	12.1	---	---	---	---	---	---
13	16.8	16.6	16.7	11.9	11.9	11.9	---	---	---	---	---	---
14	16.8	16.6	16.6	---	---	---	---	---	---	---	---	---
15	16.8	16.6	16.7	---	---	---	---	---	---	---	---	---
16	17.0	16.8	16.8	---	---	---	---	---	---	---	---	---
17	16.8	16.6	16.7	---	---	---	---	---	---	---	---	---
18	16.8	16.6	16.7	---	---	---	---	---	---	---	---	---
19	17.0	16.6	16.8	---	---	---	---	---	---	---	---	---
20	17.0	16.8	16.8	---	---	---	---	---	---	---	---	---
21	17.0	16.8	16.9	---	---	---	---	---	---	---	---	---
22	16.8	16.8	16.8	---	---	---	---	---	---	---	---	---
23	17.2	16.8	16.9	---	---	---	---	---	---	---	---	---
24	17.0	16.8	16.9	---	---	---	---	---	---	---	---	---
25	17.0	16.6	16.8	---	---	---	---	---	---	---	---	---
26	16.8	16.6	16.7	---	---	---	---	---	---	---	---	---
27	16.8	16.6	16.7	---	---	---	---	---	---	---	---	---
28	17.2	16.8	17.0	---	---	---	---	---	---	---	---	---
29	17.0	16.3	16.8	---	---	---	---	---	---	---	---	---
30	16.3	15.9	16.1	---	---	---	---	---	---	---	---	---
31	15.9	15.5	15.6	---	---	---	---	---	---	---	---	---
MONTH	17.2	15.5	16.7	15.9	11.9	14.0	---	---	---	---	---	---

CUMBERLAND RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

PUMP NUMBER 1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	10.2	9.8	10.0	13.7	13.5	13.5
2	---	---	---	---	---	---	10.4	10.0	10.2	14.3	13.5	13.9
3	---	---	---	---	---	---	11.4	10.3	10.7	14.3	13.7	13.9
4	---	---	---	---	---	---	11.8	10.3	11.0	14.1	13.7	13.9
5	---	---	---	---	---	---	11.0	10.8	10.9	14.3	13.9	14.1
6	---	---	---	---	---	---	11.2	10.8	10.9	14.3	13.9	14.1
7	---	---	---	---	---	---	11.4	11.1	11.2	14.3	14.1	14.3
8	---	---	---	---	---	---	11.3	11.1	11.3	14.5	14.3	14.3
9	---	---	---	---	---	---	11.7	11.1	11.2	15.1	14.7	14.9
10	---	---	---	---	---	---	11.4	11.0	11.2	15.5	14.7	15.0
11	---	---	---	---	---	---	11.2	10.8	11.1	15.7	15.3	15.5
12	---	---	---	---	---	---	11.5	11.1	11.4	15.9	15.3	15.6
13	---	---	---	---	---	---	11.5	11.3	11.4	16.1	15.1	15.6
14	---	---	---	---	---	---	11.7	11.4	11.6	15.2	14.9	15.1
15	---	---	---	---	---	---	11.7	11.4	11.6	15.2	15.0	15.1
16	---	---	---	---	---	---	12.0	11.6	11.7	16.0	15.0	15.3
17	---	---	---	---	---	---	11.8	11.7	11.8	15.8	15.2	15.4
18	---	---	---	---	---	---	12.0	11.7	11.9	15.4	15.2	15.3
19	---	---	---	---	---	---	12.1	11.9	12.0	15.4	15.2	15.3
20	---	---	---	---	---	---	12.1	12.1	12.1	15.6	15.4	15.5
21	---	---	---	---	---	---	12.4	12.1	12.3	15.9	15.6	15.7
22	---	---	---	---	---	---	12.4	11.5	12.0	15.9	15.3	15.6
23	---	---	---	---	---	---	12.7	11.9	12.3	15.5	15.3	15.4
24	---	---	---	---	---	---	12.9	12.1	12.4	15.7	15.3	15.5
25	---	---	---	---	---	---	13.1	12.1	12.5	15.5	15.5	15.5
26	---	---	---	---	---	---	13.1	12.3	12.7	15.7	15.3	15.5
27	---	---	---	---	---	---	13.1	12.7	13.0	15.7	15.5	15.6
28	---	---	---	---	---	---	13.1	12.9	13.0	16.3	15.5	16.0
29	---	---	---	---	---	---	13.3	12.9	13.1	16.8	16.3	16.6
30	---	---	---	---	---	---	13.7	13.3	13.6	17.0	16.6	16.8
31	---	---	---	---	---	---	---	---	---	17.4	16.8	17.1
MONTH	---	---	---	---	---	---	13.7	9.8	11.7	17.4	13.5	15.2
	JUNE			JULY			AUGUST			SEPTEMBER		
1	17.2	16.8	17.1	17.8	17.6	17.7	20.9	17.7	19.2	21.0	20.8	20.8
2	17.4	17.2	17.2	17.8	17.6	17.7	21.1	20.7	20.8	20.8	20.6	20.8
3	17.4	17.2	17.3	18.2	17.6	17.7	21.0	20.8	20.9	20.8	20.6	20.6
4	17.2	16.8	16.9	17.6	17.4	17.5	21.2	20.8	21.0	20.8	20.6	20.6
5	17.0	16.8	17.0	17.6	17.4	17.5	21.2	20.6	20.9	20.8	20.6	20.7
6	17.1	16.9	17.0	17.8	17.6	17.6	20.6	20.2	20.4	20.8	20.6	20.7
7	17.1	16.9	17.1	17.6	17.4	17.5	20.6	20.2	20.3	20.8	20.6	20.7
8	17.1	16.9	17.0	17.6	17.4	17.6	21.0	20.6	20.7	20.8	20.6	20.7
9	17.4	16.9	17.1	17.6	17.6	17.6	21.0	20.8	20.9	20.8	20.6	20.6
10	18.4	17.0	17.7	17.6	17.4	17.5	21.0	20.6	20.8	20.8	20.6	20.7
11	18.6	18.2	18.3	17.6	17.4	17.5	20.8	20.6	20.6	20.6	20.4	20.6
12	18.6	18.0	18.3	17.6	17.4	17.5	20.8	20.6	20.7	---	---	---
13	18.5	18.0	18.2	17.6	17.4	17.5	21.4	21.2	21.3	20.6	20.4	20.5
14	18.7	18.5	18.6	17.6	17.4	17.5	21.7	21.5	21.6	20.6	20.4	20.6
15	18.5	18.1	18.3	17.8	17.4	17.6	21.9	21.5	21.6	20.8	20.6	20.6
16	18.3	18.2	18.2	17.8	17.6	17.6	21.5	21.4	21.4	20.6	20.4	20.6
17	18.8	18.4	18.6	17.6	17.6	17.6	21.4	21.2	21.3	20.6	20.4	20.5
18	18.8	18.2	18.5	17.8	17.6	17.6	21.2	21.0	21.2	20.6	20.4	20.4
19	18.4	18.2	18.3	17.8	17.6	17.7	21.2	21.0	21.1	20.6	20.4	20.5
20	18.2	18.0	18.2	17.8	17.4	17.6	21.2	21.2	21.2	20.6	20.4	20.5
21	18.2	17.8	18.0	17.6	17.6	17.6	21.4	21.0	21.2	20.6	20.4	20.6
22	18.0	17.8	17.9	17.8	17.6	17.7	21.2	21.0	21.1	20.6	20.4	20.6
23	18.0	17.8	17.9	17.8	17.6	17.7	21.2	21.0	21.1	20.6	20.4	20.4
24	17.8	17.6	17.8	17.8	17.6	17.7	21.2	21.0	21.0	20.6	20.4	20.4
25	17.8	17.6	17.8	17.8	17.6	17.7	21.0	21.0	21.0	20.6	20.4	20.5
26	17.8	17.6	17.7	17.8	17.6	17.6	21.0	20.8	20.9	20.6	20.4	20.4
27	17.8	17.6	17.6	17.6	17.6	17.6	21.2	20.8	21.0	20.6	20.4	20.5
28	17.8	17.6	17.6	17.9	17.6	17.8	21.2	20.8	21.0	20.6	20.4	20.4
29	17.8	17.6	17.6	17.9	17.7	17.8	21.0	20.8	20.9	20.4	20.2	20.3
30	17.8	17.6	17.6	17.9	17.7	17.8	21.0	20.8	20.9	20.4	19.8	20.1
31	---	---	---	17.9	17.7	17.9	21.0	20.8	20.9	---	---	---
MONTH YEAR	18.8 21.9	16.8 9.8	17.7 17.0	18.2	17.4	17.6	21.9	17.7	20.9	21.0	19.8	20.5

CUMBERLAND RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
PUMP NUMBER 2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	21.5	20.8	21.3	16.1	15.9	16.0	---	---	---	---	---	---
2	21.5	21.2	21.4	16.3	15.9	16.0	---	---	---	---	---	---
3	21.4	21.2	21.3	16.1	15.5	15.9	---	---	---	---	---	---
4	21.5	21.0	21.3	16.1	15.5	15.8	---	---	---	---	---	---
5	21.2	21.0	21.1	15.5	14.9	15.2	---	---	---	---	---	---
6	21.5	20.8	21.3	14.9	14.5	14.7	---	---	---	---	---	---
7	21.4	20.6	20.9	14.5	13.7	14.2	---	---	---	---	---	---
8	21.2	20.6	20.8	13.7	13.3	13.6	---	---	---	---	---	---
9	20.8	20.4	20.7	13.5	12.9	13.3	---	---	---	---	---	---
10	20.8	20.4	20.6	13.3	12.7	13.0	---	---	---	---	---	---
11	20.8	20.2	20.4	13.1	12.5	12.8	---	---	---	---	---	---
12	20.4	20.4	20.4	12.3	11.9	12.1	---	---	---	---	---	---
13	20.6	20.2	20.3	11.9	11.7	11.8	---	---	---	---	---	---
14	20.6	20.0	20.3	---	---	---	---	---	---	---	---	---
15	20.4	20.0	20.2	---	---	---	---	---	---	---	---	---
16	20.2	19.6	20.0	---	---	---	---	---	---	---	---	---
17	19.8	19.6	19.7	---	---	---	---	---	---	---	---	---
18	19.4	19.0	19.1	---	---	---	---	---	---	---	---	---
19	19.0	18.6	18.9	---	---	---	---	---	---	---	---	---
20	19.2	18.6	18.9	---	---	---	---	---	---	---	---	---
21	18.6	18.2	18.5	---	---	---	---	---	---	---	---	---
22	18.4	18.0	18.1	---	---	---	---	---	---	---	---	---
23	17.8	17.4	17.7	---	---	---	---	---	---	---	---	---
24	17.8	17.4	17.5	---	---	---	---	---	---	---	---	---
25	17.4	17.2	17.3	---	---	---	---	---	---	---	---	---
26	17.2	17.2	17.2	---	---	---	---	---	---	---	---	---
27	17.4	17.0	17.2	---	---	---	---	---	---	---	---	---
28	17.2	17.0	17.1	---	---	---	---	---	---	---	---	---
29	16.8	16.4	16.7	---	---	---	---	---	---	---	---	---
30	16.4	16.3	16.4	---	---	---	---	---	---	---	---	---
31	16.4	16.1	16.2	---	---	---	---	---	---	---	---	---
MONTH	21.5	16.1	19.3	16.3	11.7	14.2	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	10.4	10.0	10.2	15.3	13.9	14.4
2	---	---	---	---	---	---	11.2	10.5	10.8	15.1	14.1	14.5
3	---	---	---	---	---	---	12.8	10.5	11.4	14.7	13.9	14.5
4	---	---	---	---	---	---	13.6	10.5	12.0	15.1	14.3	14.6
5	---	---	---	---	---	---	11.7	10.8	11.4	15.3	14.3	14.8
6	---	---	---	---	---	---	11.7	11.2	11.4	15.1	14.5	14.9
7	---	---	---	---	---	---	12.0	11.6	11.8	15.1	14.7	15.0
8	---	---	---	---	---	---	12.0	11.3	11.7	15.3	14.9	15.1
9	---	---	---	---	---	---	11.9	11.4	11.7	16.1	15.3	15.8
10	---	---	---	---	---	---	---	---	---	16.1	15.5	15.8
11	---	---	---	---	---	---	12.7	10.8	11.5	16.4	15.9	16.3
12	---	---	---	---	---	---	13.4	11.3	12.1	16.8	16.1	16.5
13	---	---	---	---	---	---	13.6	11.5	12.1	17.0	15.9	16.5
14	---	---	---	---	---	---	12.3	11.5	11.7	16.4	15.5	16.0
15	---	---	---	---	---	---	11.9	11.4	11.7	16.2	15.8	16.0
16	---	---	---	---	---	---	13.7	11.7	12.3	16.5	15.6	16.0
17	---	---	---	---	---	---	12.4	11.7	12.0	16.5	15.6	16.2
18	---	---	---	---	---	---	13.0	11.8	12.2	16.2	15.8	16.0
19	---	---	---	---	---	---	12.5	11.9	12.2	16.4	15.8	16.0
20	---	---	---	---	---	---	13.3	12.1	12.5	16.4	16.0	16.1
21	---	---	---	---	---	---	13.0	12.1	12.5	16.4	16.0	16.2
22	---	---	---	---	---	---	13.4	11.9	12.5	16.3	16.3	16.3
23	---	---	---	---	---	---	13.7	12.3	13.1	16.3	15.9	16.0
24	---	---	---	---	---	---	13.9	12.5	12.9	16.3	16.1	16.2
25	---	---	---	---	---	---	14.7	12.9	13.4	16.4	15.9	16.2
26	---	---	---	---	---	---	14.3	12.7	13.4	16.4	16.1	16.3
27	---	---	---	---	---	---	14.1	13.3	13.6	16.8	16.1	16.4
28	---	---	---	---	---	---	13.9	13.3	13.5	17.8	16.3	16.9
29	---	---	---	---	---	---	14.3	13.5	14.0	18.0	16.6	17.4
30	---	---	---	---	---	---	14.7	13.7	14.1	18.2	17.4	17.8
31	---	---	---	---	---	---	---	---	---	18.2	17.8	18.0
MONTH	---	---	---	---	---	---	14.7	10.0	12.3	18.2	13.9	16.0

CUMBERLAND RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
PUMP NUMBER 2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.4	17.8	18.1	19.8	19.4	19.5	22.2	21.1	21.4	22.3	21.9	22.2
2	18.6	18.0	18.4	19.8	19.2	19.5	21.5	21.1	21.3	22.3	21.9	22.1
3	18.2	18.0	18.1	20.2	19.4	19.7	21.6	21.2	21.4	22.5	21.9	22.2
4	18.4	17.8	18.0	20.0	19.4	19.8	22.1	21.6	21.8	22.3	21.9	22.1
5	17.8	17.4	17.6	20.2	19.8	20.0	22.6	21.2	21.8	22.5	21.9	22.3
6	18.9	17.7	18.2	20.4	19.8	20.0	21.7	21.0	21.4	23.1	21.9	22.5
7	18.9	17.7	18.2	21.2	20.0	20.3	21.9	21.4	21.6	22.7	22.1	22.5
8	18.5	17.9	18.2	20.8	19.6	20.2	22.5	21.7	22.0	---	---	---
9	18.4	18.1	18.2	20.8	20.0	20.5	22.3	21.7	21.9	23.1	21.9	22.5
10	19.2	18.2	18.7	21.0	20.2	20.6	22.1	21.4	21.6	23.3	22.1	22.6
11	19.6	19.0	19.3	21.2	20.6	21.0	21.9	21.7	21.7	23.3	22.3	22.7
12	20.2	19.0	19.4	21.5	20.4	21.0	22.5	21.4	21.9	---	---	---
13	19.5	18.8	19.2	21.9	20.6	21.1	22.7	21.9	22.3	22.9	22.3	22.6
14	19.9	19.3	19.6	21.4	21.0	21.2	22.7	21.9	22.3	23.1	21.5	22.3
15	19.1	19.1	19.1	21.9	21.2	21.5	22.7	21.7	22.1	22.9	22.1	22.5
16	19.4	19.1	19.3	21.9	20.4	21.1	22.3	21.9	22.1	23.1	22.1	22.6
17	19.8	19.6	19.7	21.5	20.8	21.3	22.1	21.4	21.9	22.7	22.1	22.5
18	19.8	19.4	19.6	22.3	21.5	21.8	22.3	21.4	21.9	22.5	22.3	22.4
19	19.6	19.0	19.4	22.1	21.4	21.8	22.1	21.7	21.9	22.3	22.1	22.1
20	19.4	19.0	19.2	22.1	21.5	21.9	22.9	22.3	22.6	22.3	21.9	22.1
21	19.2	19.0	19.1	22.3	21.5	22.0	22.5	21.9	22.2	22.3	21.5	22.1
22	19.6	19.2	19.3	23.1	21.5	22.2	22.5	21.7	22.1	22.1	21.7	21.9
23	19.6	19.0	19.3	23.1	21.9	22.4	22.5	21.9	22.1	22.5	21.7	22.0
24	19.4	19.0	19.2	22.5	21.9	22.4	22.5	21.9	22.2	22.3	21.7	22.0
25	19.4	18.8	19.3	22.7	22.3	22.5	22.1	21.9	22.1	21.9	21.7	21.8
26	19.8	19.0	19.3	22.9	22.5	22.6	22.5	21.7	22.2	21.9	21.5	21.7
27	19.6	19.0	19.3	22.9	21.9	22.5	22.9	21.5	22.1	21.9	21.5	21.7
28	19.6	19.2	19.4	23.0	22.4	22.8	22.7	21.5	22.1	22.1	21.4	21.7
29	19.6	19.0	19.4	23.4	22.2	22.9	22.5	22.1	22.2	21.2	19.6	20.2
30	19.6	19.0	19.4	23.6	22.4	23.3	22.3	22.1	22.2	19.4	19.0	19.3
31	---	---	---	23.4	22.0	22.7	22.5	21.9	22.2	---	---	---
MONTH	20.2	17.4	18.9	23.6	19.2	21.4	22.9	21.0	22.0	23.3	19.0	22.0
YEAR	23.6	10.0	18.6									

PUMP NUMBER 3

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	23.3	22.3	22.7	17.2	16.4	16.7	---	---	---	---	---	---
2	22.7	22.3	22.4	17.4	16.8	17.1	---	---	---	---	---	---
3	22.5	22.5	22.5	17.2	16.4	16.9	---	---	---	---	---	---
4	22.7	22.3	22.4	16.3	15.9	16.1	---	---	---	---	---	---
5	22.3	22.1	22.2	15.9	15.3	15.7	---	---	---	---	---	---
6	22.5	22.1	22.4	15.3	15.1	15.2	---	---	---	---	---	---
7	22.1	21.9	22.0	15.1	14.7	14.8	---	---	---	---	---	---
8	22.1	21.4	21.6	14.3	13.9	14.1	---	---	---	---	---	---
9	21.9	21.4	21.6	13.9	13.7	13.8	---	---	---	---	---	---
10	21.5	21.4	21.5	13.7	13.3	13.5	---	---	---	---	---	---
11	21.5	21.4	21.5	13.5	12.9	13.3	---	---	---	---	---	---
12	21.9	21.4	21.5	12.9	12.3	12.6	---	---	---	---	---	---
13	21.5	21.4	21.5	12.5	12.1	12.3	---	---	---	---	---	---
14	21.5	21.2	21.4	---	---	---	---	---	---	---	---	---
15	21.4	20.8	21.0	---	---	---	---	---	---	---	---	---
16	21.2	20.4	20.7	---	---	---	---	---	---	---	---	---
17	20.2	20.0	20.1	---	---	---	---	---	---	---	---	---
18	19.8	19.6	19.7	---	---	---	---	---	---	---	---	---
19	19.8	19.6	19.6	---	---	---	---	---	---	---	---	---
20	19.6	19.2	19.4	---	---	---	---	---	---	---	---	---
21	19.2	18.8	19.0	---	---	---	---	---	---	---	---	---
22	18.8	18.4	18.6	---	---	---	---	---	---	---	---	---
23	19.4	18.0	18.5	---	---	---	---	---	---	---	---	---
24	18.6	18.2	18.3	---	---	---	---	---	---	---	---	---
25	18.4	17.8	18.0	---	---	---	---	---	---	---	---	---
26	18.4	17.6	18.1	---	---	---	---	---	---	---	---	---
27	17.8	17.6	17.7	---	---	---	---	---	---	---	---	---
28	17.6	17.4	17.5	---	---	---	---	---	---	---	---	---
29	17.4	17.0	17.3	---	---	---	---	---	---	---	---	---
30	17.2	16.6	16.9	---	---	---	---	---	---	---	---	---
31	16.8	16.6	16.7	---	---	---	---	---	---	---	---	---
MONTH	23.3	16.6	20.1	17.4	12.1	14.8	---	---	---	---	---	---

CUMBERLAND RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
PUMP NUMBER 3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	17.6	14.9	16.6
2	---	---	---	---	---	---	12.9	11.1	11.7	16.8	15.9	16.3
3	---	---	---	---	---	---	13.8	11.6	12.6	19.0	15.9	17.0
4	---	---	---	---	---	---	13.8	11.6	12.9	19.6	15.7	17.7
5	---	---	---	---	---	---	13.9	12.1	13.0	19.6	16.3	17.2
6	---	---	---	---	---	---	12.9	12.5	12.7	18.2	16.8	17.4
7	---	---	---	---	---	---	13.2	12.2	12.6	18.4	17.0	17.7
8	---	---	---	---	---	---	12.2	11.8	12.0	18.8	16.3	17.7
9	---	---	---	---	---	---	12.1	11.8	11.9	17.6	16.6	17.3
10	---	---	---	---	---	---	---	---	---	17.8	17.2	17.4
11	---	---	---	---	---	---	13.5	11.5	12.5	17.8	17.4	17.6
12	---	---	---	---	---	---	14.8	12.8	13.6	18.2	17.4	17.7
13	---	---	---	---	---	---	14.4	13.8	14.1	18.4	17.6	18.2
14	---	---	---	---	---	---	15.9	13.5	14.3	18.5	17.3	18.1
15	---	---	---	---	---	---	16.9	13.9	14.8	18.7	17.5	18.1
16	---	---	---	---	---	---	16.2	14.5	15.7	18.7	16.9	18.0
17	---	---	---	---	---	---	16.8	14.2	15.0	20.3	17.3	18.7
18	---	---	---	---	---	---	16.8	14.2	15.9	19.1	17.5	18.2
19	---	---	---	---	---	---	17.1	15.3	16.6	18.5	17.5	18.2
20	---	---	---	---	---	---	17.2	16.9	17.0	19.3	18.1	18.5
21	---	---	---	---	---	---	17.7	16.0	16.9	19.8	18.6	19.1
22	---	---	---	---	---	---	17.0	14.2	15.9	19.6	19.2	19.4
23	---	---	---	---	---	---	17.0	14.3	16.0	20.2	19.2	19.8
24	---	---	---	---	---	---	17.0	15.3	15.8	21.0	19.2	20.1
25	---	---	---	---	---	---	17.0	15.5	16.4	20.6	18.6	19.7
26	---	---	---	---	---	---	17.2	16.1	16.8	20.8	19.4	20.2
27	---	---	---	---	---	---	16.3	15.7	16.1	20.4	18.8	19.8
28	---	---	---	---	---	---	17.0	15.5	16.2	20.8	19.0	19.7
29	---	---	---	---	---	---	18.6	16.1	17.5	20.8	18.8	19.6
30	---	---	---	---	---	---	18.0	15.7	16.8	20.8	19.2	19.9
31	---	---	---	---	---	---	---	---	---	20.6	19.6	20.3
MONTH	---	---	---	---	---	---	18.6	11.1	14.8	21.0	14.9	18.4
	JUNE			JULY			AUGUST			SEPTEMBER		
1	21.2	20.2	20.6	26.8	25.5	26.0	23.8	23.2	23.4	26.5	26.3	26.5
2	21.5	20.8	21.1	27.6	24.9	26.4	23.3	22.6	23.0	26.3	26.3	26.3
3	21.5	20.8	21.1	26.7	25.1	26.0	23.7	23.1	23.4	26.5	26.1	26.2
4	21.7	21.0	21.4	26.5	25.5	26.0	24.3	23.3	23.8	26.3	26.1	26.1
5	21.5	21.2	21.3	26.5	25.9	26.2	24.7	24.1	24.4	26.1	25.9	26.0
6	23.6	21.1	22.1	26.3	25.5	25.9	24.9	24.1	24.5	26.3	25.7	26.0
7	23.6	21.1	22.4	26.7	25.7	26.2	25.1	24.3	24.7	26.1	25.9	25.9
8	22.6	21.5	22.1	27.4	26.3	26.8	25.7	24.3	25.0	---	---	---
9	22.7	21.6	22.1	27.0	25.7	26.3	26.1	24.7	25.6	26.5	25.9	26.1
10	21.9	21.6	21.7	27.0	26.1	26.6	26.1	25.3	25.7	25.9	25.7	25.8
11	22.9	21.7	22.1	26.7	26.7	26.7	26.8	25.1	25.9	26.1	25.7	25.8
12	24.1	21.7	22.7	26.7	26.3	26.5	25.9	25.3	25.6	---	---	---
13	22.4	21.7	22.1	26.5	26.3	26.4	25.7	24.7	25.4	25.5	25.1	25.4
14	22.4	22.0	22.2	27.2	25.9	26.6	25.5	24.9	25.2	25.5	24.9	25.1
15	22.8	22.6	22.7	27.0	26.5	26.8	25.5	25.1	25.3	24.9	24.5	24.7
16	23.1	22.4	22.8	26.7	26.3	26.5	25.5	24.7	25.2	24.5	24.3	24.4
17	23.5	23.1	23.4	26.7	26.3	26.5	25.5	25.3	25.3	24.3	24.1	24.2
18	23.7	22.7	23.1	28.0	26.1	27.0	25.7	25.1	25.3	23.7	23.3	23.6
19	24.1	22.5	23.3	28.0	26.1	27.0	25.7	25.1	25.4	23.3	23.1	23.3
20	24.1	23.3	23.9	27.0	26.7	26.8	25.9	25.1	25.7	23.3	22.9	23.1
21	24.5	23.5	23.9	27.4	26.3	26.9	26.1	25.9	25.9	23.3	23.1	23.1
22	24.9	23.7	24.4	27.6	26.3	26.8	26.1	25.7	26.0	23.5	22.9	23.1
23	25.1	23.5	24.3	27.2	26.8	26.9	26.5	25.9	26.2	22.9	22.7	22.8
24	24.9	24.1	24.5	27.2	26.8	27.1	26.5	25.5	26.2	23.1	22.9	22.9
25	25.1	24.5	24.8	27.2	26.7	27.0	26.7	26.1	26.4	22.9	22.7	22.7
26	25.5	24.7	25.0	26.8	26.7	26.8	27.0	26.1	26.6	22.7	22.5	22.6
27	25.3	24.7	25.0	26.8	26.7	26.8	26.8	26.3	26.4	22.7	22.5	22.6
28	25.9	25.1	25.5	26.9	26.6	26.7	26.7	26.5	26.6	22.5	22.1	22.3
29	26.3	25.1	25.7	26.8	26.4	26.7	26.5	26.1	26.3	22.1	21.4	21.7
30	26.5	25.5	26.0	26.8	26.4	26.6	26.5	26.3	26.4	21.5	21.2	21.4
31	---	---	---	26.6	26.2	26.4	26.5	26.1	26.4	---	---	---
MONTH YEAR	26.5 28.0	20.2 11.1	23.1 21.5	28.0	24.9	26.6	27.0	22.6	25.4	26.5	21.2	24.3

CUMBERLAND RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
PUMP NUMBER 4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	17.6	17.0	17.2
2	---	---	---	---	---	---	---	---	---	19.4	17.0	18.1
3	---	---	---	---	---	---	---	---	---	19.4	17.8	18.7
4	---	---	---	---	---	---	---	---	---	20.0	18.6	19.3
5	---	---	---	---	---	---	---	---	---	20.2	19.2	19.8
6	---	---	---	---	---	---	---	---	---	21.0	19.6	20.2
7	---	---	---	---	---	---	---	---	---	20.4	19.8	20.2
8	---	---	---	---	---	---	---	---	---	20.8	19.6	20.3
9	---	---	---	---	---	---	---	---	---	21.4	18.0	19.4
10	---	---	---	---	---	---	---	---	---	21.9	18.6	20.6
11	---	---	---	---	---	---	---	---	---	21.5	20.8	21.2
12	---	---	---	---	---	---	---	---	---	20.6	19.4	20.0
13	---	---	---	---	---	---	---	---	---	19.4	18.8	19.1
14	---	---	---	---	---	---	---	---	---	20.5	18.2	19.4
15	---	---	---	---	---	---	---	---	---	19.7	18.7	19.1
16	---	---	---	---	---	---	---	---	---	18.9	18.5	18.7
17	---	---	---	---	---	---	---	---	---	21.1	18.3	19.9
18	---	---	---	---	---	---	---	---	---	23.6	20.1	21.7
19	---	---	---	---	---	---	---	---	---	25.2	21.8	23.3
20	---	---	---	---	---	---	---	---	---	25.6	23.8	25.0
21	---	---	---	---	---	---	---	---	---	25.3	23.4	24.5
22	---	---	---	---	---	---	---	---	---	25.3	23.5	24.0
23	---	---	---	---	---	---	---	---	---	25.3	23.5	24.5
24	---	---	---	---	---	---	---	---	---	25.9	24.1	25.2
25	---	---	---	---	---	---	---	---	---	26.3	24.9	25.2
26	---	---	---	---	---	---	---	---	---	24.7	24.1	24.4
27	---	---	---	---	---	---	---	---	---	24.3	23.7	24.0
28	---	---	---	---	---	---	---	---	---	24.7	23.5	24.0
29	---	---	---	---	---	---	---	---	---	24.1	21.7	22.6
30	---	---	---	---	---	---	18.0	17.4	17.7	23.1	21.9	22.7
31	---	---	---	---	---	---	---	---	---	24.5	22.9	23.6
MONTH	---	---	---	---	---	---	18.0	17.4	17.7	26.3	17.0	21.5
	JUNE			JULY			AUGUST			SEPTEMBER		
1	24.5	23.1	24.0	29.4	27.8	28.2	25.6	24.4	24.8	27.6	26.5	27.0
2	23.7	23.5	23.5	28.2	27.8	28.0	25.2	24.8	25.0	27.0	26.5	26.7
3	24.3	23.1	23.8	27.6	27.2	27.4	25.7	24.9	25.3	26.8	26.1	26.5
4	23.7	22.7	23.4	27.4	26.3	26.8	26.1	25.5	25.9	26.8	26.1	26.3
5	24.7	23.1	24.0	27.8	26.1	26.9	26.7	26.3	26.5	26.3	25.7	26.1
6	25.0	23.5	24.3	28.8	26.5	27.6	28.2	26.3	27.0	26.8	26.1	26.4
7	25.0	23.6	24.3	28.0	27.2	27.5	28.2	27.0	27.3	27.4	25.7	26.4
8	24.8	23.6	24.2	27.4	27.2	27.3	29.4	27.0	28.0	---	---	---
9	24.5	23.8	24.2	27.8	26.7	27.1	28.4	27.0	27.5	26.5	25.9	26.3
10	24.9	23.9	24.4	27.8	26.5	27.0	28.2	26.8	27.4	26.7	25.9	26.2
11	24.3	23.9	24.1	26.7	26.1	26.4	27.0	26.8	26.9	26.8	25.7	26.1
12	24.3	23.9	24.0	28.4	25.9	27.2	26.7	26.5	26.6	---	---	---
13	25.6	23.9	24.8	28.0	26.7	27.2	26.5	25.9	26.1	25.5	24.9	25.2
14	27.0	24.8	25.8	27.6	26.5	27.0	27.2	25.5	26.0	25.7	24.7	25.0
15	25.6	24.8	25.3	27.2	26.7	26.9	27.2	26.1	26.4	25.5	24.5	24.9
16	27.5	25.4	26.3	28.0	26.5	27.1	27.0	25.9	26.4	24.5	24.1	24.3
17	28.6	26.9	27.7	28.2	26.7	27.4	26.7	25.9	26.3	24.1	23.7	24.0
18	27.8	26.5	27.2	28.0	27.4	27.8	27.8	25.5	26.6	23.7	23.3	23.6
19	27.2	27.0	27.1	27.8	27.2	27.5	26.8	26.7	26.8	24.5	23.3	23.7
20	28.2	26.8	27.6	28.0	27.4	27.6	29.0	28.2	28.6	25.1	22.9	23.9
21	28.8	26.8	27.4	28.0	27.0	27.5	28.6	27.2	27.7	23.7	23.3	23.6
22	28.6	27.2	28.1	28.2	27.6	27.7	28.6	26.8	27.6	23.7	22.9	23.2
23	29.8	27.4	28.5	27.8	27.2	27.4	28.8	27.4	27.8	24.1	22.5	23.3
24	29.0	28.6	28.9	28.2	27.0	28.1	28.0	27.4	27.7	23.1	22.7	22.9
25	28.4	27.6	27.9	27.8	26.8	27.2	28.6	27.0	27.7	24.1	22.7	23.3
26	28.2	26.8	27.4	28.0	26.5	27.1	28.0	27.0	27.5	23.9	22.7	23.1
27	28.6	26.7	27.5	27.6	26.3	27.0	27.8	27.0	27.4	22.7	22.5	22.5
28	28.8	27.0	27.8	27.1	26.6	26.8	27.6	26.5	26.9	22.5	22.1	22.3
29	29.4	27.2	28.1	26.6	26.4	26.6	28.0	26.5	26.9	22.9	21.7	22.0
30	29.2	27.6	28.2	26.6	26.2	26.4	27.2	26.5	26.7	22.5	21.5	22.0
31	---	---	---	26.2	24.8	25.8	27.6	26.3	26.8	---	---	---
MONTH YEAR	29.8 29.8	22.7 17.0	26.0 25.2	29.4	24.8	27.2	29.4	24.4	26.8	27.6	21.5	24.5

CUMBERLAND RIVER BASIN

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

PUMP NUMBER 1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	.3	.2	.3	8.2	8.1	8.2	---	---	---	---	---	---
2	.3	.2	.3	8.3	8.2	8.2	---	---	---	---	---	---
3	.3	.2	.2	8.2	7.9	8.0	---	---	---	---	---	---
4	.3	.2	.3	8.6	8.1	8.4	---	---	---	---	---	---
5	.2	.2	.2	8.5	8.2	8.3	---	---	---	---	---	---
6	.3	.2	.2	8.9	8.5	8.6	---	---	---	---	---	---
7	.3	.2	.2	9.2	8.9	9.0	---	---	---	---	---	---
8	.2	.2	.2	9.4	9.2	9.3	---	---	---	---	---	---
9	.2	.2	.2	9.4	9.2	9.3	---	---	---	---	---	---
10	.2	.2	.2	9.5	9.1	9.3	---	---	---	---	---	---
11	.2	.1	.2	9.8	9.5	9.6	---	---	---	---	---	---
12	.2	.2	.2	9.9	9.8	9.8	---	---	---	---	---	---
13	---	---	---	9.9	9.9	9.9	---	---	---	---	---	---
14	.2	.1	.2	---	---	---	---	---	---	---	---	---
15	.2	.2	.2	---	---	---	---	---	---	---	---	---
16	.3	.2	.2	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	.3	.2	.2	---	---	---	---	---	---	---	---	---
19	.3	.2	.2	---	---	---	---	---	---	---	---	---
20	.3	.2	.2	---	---	---	---	---	---	---	---	---
21	.3	.2	.2	---	---	---	---	---	---	---	---	---
22	.2	.2	.2	---	---	---	---	---	---	---	---	---
23	.2	.2	.2	---	---	---	---	---	---	---	---	---
24	.6	.2	.4	---	---	---	---	---	---	---	---	---
25	3.5	2.1	3.1	---	---	---	---	---	---	---	---	---
26	3.7	2.8	3.3	---	---	---	---	---	---	---	---	---
27	5.0	3.3	3.9	---	---	---	---	---	---	---	---	---
28	8.2	5.3	7.0	---	---	---	---	---	---	---	---	---
29	8.3	7.7	8.1	---	---	---	---	---	---	---	---	---
30	8.1	7.7	7.9	---	---	---	---	---	---	---	---	---
31	8.2	8.0	8.1	---	---	---	---	---	---	---	---	---
MONTH	8.3	.1	1.6	9.9	7.9	8.9	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	11.1	10.7	10.9	8.9	8.5	8.7
2	---	---	---	---	---	---	11.1	10.8	11.0	9.0	8.4	8.6
3	---	---	---	---	---	---	11.1	10.9	10.9	8.6	8.2	8.4
4	---	---	---	---	---	---	11.1	10.7	10.8	8.4	8.0	8.2
5	---	---	---	---	---	---	10.9	10.7	10.8	8.5	8.0	8.2
6	---	---	---	---	---	---	10.8	10.7	10.8	8.2	8.0	8.1
7	---	---	---	---	---	---	10.7	10.7	10.7	8.3	7.9	8.1
8	---	---	---	---	---	---	10.7	10.7	10.7	8.0	7.9	7.9
9	---	---	---	---	---	---	11.0	10.6	10.8	8.3	7.9	8.2
10	---	---	---	---	---	---	10.7	10.4	10.6	8.6	7.8	8.2
11	---	---	---	---	---	---	10.6	10.3	10.4	8.7	8.1	8.4
12	---	---	---	---	---	---	10.7	10.4	10.5	8.4	7.9	8.2
13	---	---	---	---	---	---	10.4	10.4	10.4	8.4	7.4	8.0
14	---	---	---	---	---	---	10.6	10.4	10.5	7.5	6.9	7.2
15	---	---	---	---	---	---	10.5	10.4	10.4	7.2	6.7	7.0
16	---	---	---	---	---	---	10.6	10.4	10.4	7.8	6.4	6.9
17	---	---	---	---	---	---	10.4	10.3	10.4	7.4	6.8	7.0
18	---	---	---	---	---	---	10.4	10.2	10.3	7.0	6.8	6.8
19	---	---	---	---	---	---	10.3	10.1	10.2	7.0	6.8	6.9
20	---	---	---	---	---	---	10.0	9.9	10.0	7.2	6.9	7.0
21	---	---	---	---	---	---	10.0	9.9	10.0	7.4	7.1	7.2
22	---	---	---	---	---	---	10.0	10.0	10.0	7.1	6.3	6.9
23	---	---	---	---	---	---	10.2	9.9	10.0	6.6	6.3	6.4
24	---	---	---	---	---	---	10.0	9.8	9.9	6.4	6.0	6.2
25	---	---	---	---	---	---	9.9	9.5	9.7	6.0	5.6	5.8
26	---	---	---	---	---	---	9.6	9.5	9.5	5.7	5.5	5.6
27	---	---	---	---	---	---	9.5	9.3	9.4	5.9	5.3	5.6
28	---	---	---	---	---	---	9.3	9.1	9.2	6.8	5.0	5.9
29	---	---	---	---	---	---	9.2	8.8	9.0	7.0	6.2	6.8
30	---	---	---	---	---	---	9.1	8.8	8.9	6.9	6.4	6.6
31	---	---	---	---	---	---	---	---	---	7.0	6.0	6.5
MONTH	---	---	---	---	---	---	11.1	8.8	10.2	9.0	5.0	7.3

CUMBERLAND RIVER BASIN

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
PUMP NUMBER 1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.7	6.1	6.5	.5	.4	.5	6.2	1.0	3.4	.4	.3	.4
2	6.8	6.2	6.4	.5	.3	.4	6.9	6.6	6.7	.5	.4	.4
3	6.5	5.6	6.1	.4	.3	.4	6.9	6.8	6.9	.8	.4	.6
4	5.5	5.0	5.3	.5	.3	.4	6.9	6.7	6.8	.7	.6	.6
5	4.9	4.7	4.8	.5	.3	.4	7.1	6.6	6.9	.5	.4	.5
6	4.8	4.5	4.7	.4	.3	.3	7.0	6.4	6.8	.5	.4	.5
7	4.7	4.4	4.5	.3	.3	.3	6.2	5.7	5.9	.5	.4	.4
8	4.4	4.0	4.2	.4	.2	.3	5.7	4.8	5.3	.5	.4	.5
9	4.4	4.1	4.3	.3	.2	.2	4.6	3.9	4.4	.5	.4	.5
10	5.8	3.8	4.7	.3	.2	.2	3.8	3.1	3.5	.6	.5	.6
11	5.6	4.9	5.4	.6	.2	.4	3.1	2.3	2.6	.6	.5	.5
12	5.6	4.3	4.9	.5	.5	.5	2.8	1.9	2.2	---	---	---
13	4.6	3.8	4.1	.5	.4	.5	2.8	2.3	2.6	.5	.5	.5
14	4.9	4.2	4.6	.5	.4	.5	3.3	2.2	2.8	.5	.4	.5
15	4.1	3.9	4.0	.5	.4	.5	4.5	3.8	4.2	.5	.3	.4
16	3.7	3.5	3.6	.5	.4	.4	4.0	3.3	3.6	.4	.3	.3
17	4.1	4.0	4.0	.5	.4	.5	3.1	2.4	2.8	.4	.2	.3
18	4.7	4.0	4.3	.5	.4	.5	2.3	1.8	2.0	.4	.2	.3
19	4.4	3.6	4.0	.5	.4	.4	1.6	1.5	1.6	.3	.2	.3
20	3.5	3.0	3.2	.5	.4	.4	.8	.7	.8	.3	.2	.2
21	2.8	2.3	2.6	.5	.3	.4	.7	.4	.6	.3	.2	.2
22	2.2	1.9	2.1	.5	.3	.4	.4	.4	.4	.3	.2	.2
23	1.9	1.7	1.8	.4	.3	.4	.4	.3	.4	.3	.2	.3
24	1.5	1.3	1.4	.4	.3	.4	.4	.3	.4	.2	.1	.2
25	1.2	1.0	1.0	.4	.3	.3	.5	.3	.4	.2	.1	.2
26	1.0	.7	.9	.5	.4	.4	.5	.3	.4	.2	.1	.2
27	.8	.6	.7	.6	.5	.6	.4	.3	.4	.1	.1	.1
28	.6	.6	.6	.8	.6	.7	.5	.3	.4	.1	.1	.1
29	.6	.4	.5	.9	.8	.9	.5	.4	.4	2.9	.1	1.0
30	.5	.4	.4	.9	.9	.9	.4	.3	.4	5.2	4.3	4.7
31	---	---	---	1.1	.9	1.0	.4	.3	.4	---	---	---
MONTH	6.8	.4	3.5	1.1	.2	.5	7.1	.3	2.8	5.2	.1	.5
YEAR	11.1	.1	4.1									

PUMP NUMBER 2

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	4.2	2.1	3.1	8.2	8.1	8.2	---	---	---	---	---	---
2	3.5	2.1	3.3	8.1	7.7	8.0	---	---	---	---	---	---
3	3.4	1.8	2.8	8.2	8.0	8.1	---	---	---	---	---	---
4	3.4	1.9	2.6	8.7	8.3	8.5	---	---	---	---	---	---
5	---	---	---	8.6	8.3	8.4	---	---	---	---	---	---
6	---	---	---	8.7	8.5	8.6	---	---	---	---	---	---
7	3.5	2.0	2.8	9.1	8.7	8.9	---	---	---	---	---	---
8	3.5	2.8	3.1	9.4	9.3	9.4	---	---	---	---	---	---
9	4.6	3.4	3.8	9.5	9.4	9.4	---	---	---	---	---	---
10	4.5	4.0	4.2	9.6	9.3	9.5	---	---	---	---	---	---
11	4.5	4.1	4.3	9.7	9.5	9.6	---	---	---	---	---	---
12	4.4	3.9	4.2	9.9	9.8	9.8	---	---	---	---	---	---
13	4.5	3.5	4.0	9.9	9.8	9.9	---	---	---	---	---	---
14	4.9	4.0	4.5	---	---	---	---	---	---	---	---	---
15	5.3	4.0	4.6	---	---	---	---	---	---	---	---	---
16	5.5	3.3	4.9	---	---	---	---	---	---	---	---	---
17	5.6	5.0	5.2	---	---	---	---	---	---	---	---	---
18	5.7	4.5	5.3	---	---	---	---	---	---	---	---	---
19	5.9	4.8	5.6	---	---	---	---	---	---	---	---	---
20	6.5	6.0	6.2	---	---	---	---	---	---	---	---	---
21	6.7	5.7	6.4	---	---	---	---	---	---	---	---	---
22	6.9	6.7	6.8	---	---	---	---	---	---	---	---	---
23	7.0	6.6	6.9	---	---	---	---	---	---	---	---	---
24	7.2	6.7	7.0	---	---	---	---	---	---	---	---	---
25	7.3	6.9	7.1	---	---	---	---	---	---	---	---	---
26	7.5	7.1	7.3	---	---	---	---	---	---	---	---	---
27	8.0	6.7	7.4	---	---	---	---	---	---	---	---	---
28	8.2	7.8	8.0	---	---	---	---	---	---	---	---	---
29	8.3	8.0	8.2	---	---	---	---	---	---	---	---	---
30	8.3	8.2	8.2	---	---	---	---	---	---	---	---	---
31	8.3	8.2	8.2	---	---	---	---	---	---	---	---	---
MONTH	8.3	1.8	5.4	9.9	7.7	8.9	---	---	---	---	---	---

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
PUMP NUMBER 2

DAY	FEBRUARY				JUNE				JULY				AUGUST				SEPTEMBER			
	MAX	MIN	MEAN	MONTH	MAX	MIN	MEAN	MONTH	MAX	MIN	MEAN	MONTH	MAX	MIN	MEAN	MONTH	MAX	MIN	MEAN	MONTH
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	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1	7.8	7.6	7.7	7.7	3.9	2.0	3.0	1.7	5.5	1.4	.5	1.0	.5	8.7	9.1	8.7	9.3	8.7	9.1	8.7
2	7.8	7.5	7.7	7.7	4.0	1.7	3.1	6.0	6.6	1.1	.4	.6	.4	8.9	9.0	8.9	9.3	8.9	9.0	8.9
3	7.6	7.4	7.5	7.5	3.7	2.8	3.3	6.7	6.8	.8	.5	.7	.8	9.1	8.6	8.9	9.1	8.6	8.9	8.9
4	7.4	7.1	7.2	7.2	3.9	2.1	3.4	6.6	6.6	.8	.6	.7	.6	8.9	8.6	8.8	8.9	8.6	8.8	8.8
5	7.1	6.6	6.9	6.9	3.7	2.9	3.5	6.5	7.1	.5	.4	.5	.4	9.0	8.5	8.8	9.0	8.5	8.8	8.8
6	7.2	6.6	6.8	6.8	3.7	2.5	3.2	6.8	6.9	.6	.4	.5	.6	8.9	8.6	8.7	8.9	8.6	8.7	8.7
7	6.9	6.2	6.5	6.5	4.2	2.1	3.1	6.3	6.6	.5	.4	.4	.4	8.7	8.6	8.6	8.7	8.6	8.6	8.6
8	6.8	6.4	6.6	6.6	3.4	1.4	2.5	6.1	6.1	---	---	---	---	8.6	8.3	8.5	8.7	8.6	8.3	8.6
9	6.4	6.2	6.3	6.3	3.1	1.6	2.6	5.6	6.1	.4	.4	.4	.4	8.7	8.6	8.6	8.7	8.6	8.6	8.6
10	6.9	6.1	6.5	6.5	3.1	1.8	2.7	4.6	5.7	.5	.5	.5	.5	8.7	8.5	8.6	8.7	8.5	8.6	8.6
11	6.9	6.7	6.8	6.8	3.5	2.0	2.8	4.4	5.4	.6	.5	.5	.5	8.9	8.7	8.8	8.9	8.7	8.8	8.7
12	6.8	5.9	6.3	6.3	3.5	1.5	2.7	4.8	5.1	.6	.5	.5	.5	8.7	8.6	8.6	8.7	8.6	8.6	8.6
13	6.1	5.4	5.8	5.8	3.2	1.2	2.2	4.3	4.8	.5	.5	.5	.5	8.6	8.3	8.5	8.7	8.6	8.3	8.6
14	6.3	6.1	6.2	6.2	2.0	1.7	1.8	4.4	5.1	.5	.5	.5	.5	8.9	8.6	8.8	8.9	8.6	8.8	8.8
15	5.8	5.8	5.8	5.8	2.7	1.6	2.2	5.4	5.6	.4	.4	.4	.4	9.0	8.5	8.8	9.0	8.5	8.8	8.8
16	5.8	5.7	5.7	5.7	2.4	1.4	1.7	5.4	5.6	.5	.5	.5	.5	8.9	8.7	8.8	8.9	8.7	8.8	8.7
17	5.8	5.8	5.8	5.8	1.5	1.4	1.5	5.2	5.3	.4	.4	.4	.4	8.7	8.6	8.6	8.7	8.6	8.6	8.6
18	6.4	6.0	6.2	6.2	1.7	1.1	1.4	4.2	5.0	.3	.3	.3	.3	8.6	8.3	8.5	8.7	8.6	8.3	8.6
19	6.2	5.6	6.0	6.0	1.3	.8	1.1	4.4	4.5	.2	.2	.2	.2	8.7	8.6	8.6	8.7	8.6	8.6	8.6
20	5.9	4.5	5.3	5.3	1.4	.8	1.1	4.2	4.6	.3	.3	.3	.3	8.7	8.5	8.6	8.7	8.5	8.6	8.6
21	4.8	4.5	4.7	4.7	1.3	.5	1.1	4.4	4.7	.2	.2	.2	.2	8.9	8.7	8.8	8.9	8.7	8.8	8.7
22	5.7	5.1	5.5	5.5	1.9	.5	1.1	3.3	3.9	.5	.5	.5	.5	8.7	8.6	8.6	8.7	8.6	8.6	8.6
23	5.5	3.8	4.8	4.8	1.4	.6	.9	3.8	4.0	.2	.2	.2	.2	8.9	8.6	8.8	9.1	8.6	8.9	8.9
24	5.1	4.3	4.7	4.7	.9	.5	.7	3.8	4.0	.2	.2	.2	.2	8.9	8.6	8.8	8.9	8.6	8.8	8.8
25	5.2	3.9	4.6	4.6	.7	.4	.5	2.4	2.3	.3	.3	.3	.3	9.0	8.5	8.8	9.0	8.5	8.8	8.8
26	5.1	3.9	4.5	4.5	.7	.5	.6	3.2	2.6	.2	.2	.2	.2	8.9	8.7	8.8	8.9	8.6	8.7	8.7
27	4.7	3.9	4.3	4.3	.7	.6	.7	2.5	2.6	.1	.1	.1	.1	8.7	8.6	8.6	8.7	8.6	8.6	8.6
28	4.5	3.7	4.2	4.2	.8	.6	.8	2.7	2.1	.1	.1	.1	.1	8.6	8.3	8.5	8.7	8.6	8.3	8.6
29	4.3	3.2	3.9	3.9	1.0	.8	.9	2.4	1.9	.1	.1	.1	.1	8.8	8.5	8.8	8.9	8.6	8.8	8.8
30	4.3	2.8	3.6	3.6	1.1	.9	1.0	2.1	1.6	.1	.1	.1	.1	8.9	8.6	8.8	8.9	8.6	8.8	8.8
31	---	---	---	---	1.2	1.1	1.1	1.7	1.2	---	---	---	---	---	---	---	---	---	---	---
MONTH	7.8	2.8	5.8	5.8	4.2	.4	1.9	7.1	1.0	4.6	.1	.7	.1	8.7	9.1	8.7	9.3	8.7	9.1	8.7
YEAR	11.2	.1	5.5	5.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

CUMBERLAND RIVER BASIN

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
PUMP NUMBER 3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	6.7	5.0	6.0	8.6	8.2	8.4	---	---	---	---	---	---
2	6.5	5.3	6.0	8.9	8.4	8.6	---	---	---	---	---	---
3	6.2	6.0	6.1	8.9	8.3	8.6	---	---	---	---	---	---
4	7.0	5.5	6.4	8.6	8.4	8.5	---	---	---	---	---	---
5	---	---	---	8.5	8.4	8.4	---	---	---	---	---	---
6	6.8	5.9	6.5	8.8	8.4	8.6	---	---	---	---	---	---
7	6.7	5.6	6.3	8.9	8.8	8.8	---	---	---	---	---	---
8	6.1	5.2	5.8	9.4	8.9	9.2	---	---	---	---	---	---
9	6.5	5.9	6.2	9.5	9.3	9.4	---	---	---	---	---	---
10	6.4	6.2	6.3	9.5	9.3	9.4	---	---	---	---	---	---
11	6.2	5.8	6.0	9.6	9.5	9.5	---	---	---	---	---	---
12	6.2	4.9	5.5	9.9	9.7	9.8	---	---	---	---	---	---
13	5.6	4.7	5.1	9.9	9.8	9.8	---	---	---	---	---	---
14	5.6	5.3	5.5	---	---	---	---	---	---	---	---	---
15	5.5	5.3	5.4	---	---	---	---	---	---	---	---	---
16	5.5	5.3	5.4	---	---	---	---	---	---	---	---	---
17	5.5	5.3	5.4	---	---	---	---	---	---	---	---	---
18	5.9	5.7	5.8	---	---	---	---	---	---	---	---	---
19	6.3	5.9	6.1	---	---	---	---	---	---	---	---	---
20	6.4	6.1	6.3	---	---	---	---	---	---	---	---	---
21	6.5	6.4	6.4	---	---	---	---	---	---	---	---	---
22	6.8	6.6	6.7	---	---	---	---	---	---	---	---	---
23	7.1	6.7	6.9	---	---	---	---	---	---	---	---	---
24	7.3	6.9	7.1	---	---	---	---	---	---	---	---	---
25	7.3	7.0	7.2	---	---	---	---	---	---	---	---	---
26	7.8	7.2	7.5	---	---	---	---	---	---	---	---	---
27	7.9	7.4	7.7	---	---	---	---	---	---	---	---	---
28	8.2	7.9	8.0	---	---	---	---	---	---	---	---	---
29	8.4	8.1	8.2	---	---	---	---	---	---	---	---	---
30	8.5	8.2	8.3	---	---	---	---	---	---	---	---	---
31	8.3	8.2	8.2	---	---	---	---	---	---	---	---	---
MONTH	8.5	4.7	6.5	9.9	8.2	9.0	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	11.1	10.7	11.0	9.6	9.2	9.5
2	---	---	---	---	---	---	11.1	10.8	11.0	9.4	9.1	9.2
3	---	---	---	---	---	---	11.0	10.7	10.8	9.7	9.1	9.3
4	---	---	---	---	---	---	10.9	10.7	10.8	9.3	9.1	9.2
5	---	---	---	---	---	---	10.9	10.6	10.7	9.3	8.5	9.1
6	---	---	---	---	---	---	10.7	10.7	10.7	9.6	8.9	9.2
7	---	---	---	---	---	---	10.9	10.7	10.8	9.6	8.8	9.2
8	---	---	---	---	---	---	11.1	10.8	10.9	9.7	8.3	9.1
9	---	---	---	---	---	---	11.1	11.0	11.0	9.4	8.9	9.0
10	---	---	---	---	---	---	---	---	---	8.9	8.7	8.8
11	---	---	---	---	---	---	11.0	10.7	10.8	9.1	8.8	8.9
12	---	---	---	---	---	---	11.0	10.9	10.9	9.2	8.8	8.9
13	---	---	---	---	---	---	11.0	10.8	10.9	9.6	8.7	9.0
14	---	---	---	---	---	---	11.0	10.5	10.7	9.3	8.5	8.8
15	---	---	---	---	---	---	11.0	10.4	10.8	9.2	8.2	8.7
16	---	---	---	---	---	---	10.6	10.2	10.4	8.9	8.2	8.5
17	---	---	---	---	---	---	10.7	10.4	10.6	9.7	8.1	8.7
18	---	---	---	---	---	---	10.6	10.4	10.5	9.0	8.3	8.6
19	---	---	---	---	---	---	10.4	10.1	10.3	8.6	7.6	8.3
20	---	---	---	---	---	---	10.3	10.1	10.2	8.6	8.3	8.4
21	---	---	---	---	---	---	10.3	10.1	10.2	8.7	8.3	8.5
22	---	---	---	---	---	---	10.5	10.0	10.3	9.1	8.2	8.6
23	---	---	---	---	---	---	10.3	9.8	10.0	8.9	8.5	8.6
24	---	---	---	---	---	---	10.1	9.8	10.0	8.9	8.6	8.6
25	---	---	---	---	---	---	10.0	9.9	10.0	8.7	7.8	8.4
26	---	---	---	---	---	---	9.9	9.8	9.8	8.9	8.6	8.7
27	---	---	---	---	---	---	9.9	9.7	9.8	8.8	8.5	8.6
28	---	---	---	---	---	---	9.7	9.4	9.6	8.6	7.5	8.3
29	---	---	---	---	---	---	9.8	9.4	9.6	8.5	8.1	8.3
30	---	---	---	---	---	---	9.4	9.4	9.4	8.5	7.9	8.2
31	---	---	---	---	---	---	---	---	---	8.0	7.8	7.9
MONTH	---	---	---	---	---	---	11.1	9.4	10.4	9.7	7.5	8.7

CUMBERLAND RIVER BASIN

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
PUMP NUMBER 3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.2	7.7	7.9	9.2	8.0	8.7	5.6	1.6	3.1	7.8	7.4	7.6
2		8.1	7.7	7.9	9.2	8.1	8.6	5.6	4.9	5.1	7.9	7.57.8
3	8.2	7.8	8.0	9.1	8.6	8.8	5.4	4.3	5.0	7.7	6.9	7.4
4	8.2	7.8	8.1	9.5	7.8	8.7	5.3	4.5	5.0	7.2	6.9	7.0
5	8.2	8.0	8.1	8.3	7.4	7.6	6.9	4.8	5.7	7.0	6.8	6.9
6	9.0	7.9	8.3	8.3	7.2	7.9	7.2	5.6	6.4	7.3	6.9	7.0
7	8.8	8.2	8.5	8.1	7.2	7.6	7.5	5.8	6.6	7.2	6.8	7.0
8	8.5	7.6	8.2	7.5	7.1	7.3	7.9	6.1	7.0	---	---	---
9	8.6	8.0	8.3	7.5	6.7	7.1	8.6	6.8	8.0	7.3	7.0	7.
10	8.3	7.6	8.0	7.8	6.9	7.2	8.7	7.9	8.4	7.3	6.7	7.2
11	8.7	7.6	8.2	8.2	7.0	7.6	8.6	7.7	8.3	7.4	7.0	7.1
12	8.4	7.8	8.1	8.2	7.9	8.0	8.6	7.7	8.2	---	---	---
13	8.4	7.1	7.9	8.4	7.7	8.1	8.4	6.2	7.4	7.1	6.8	7.0
14	7.7	7.7	7.7	8.1	7.2	7.7	8.2	5.8	7.2	6.6	5.8	6.2
15	8.5	8.3	8.4	7.9	7.8	7.9	8.4	7.1	7.7	5.7	4.9	5.4
16	9.1	7.6	8.4	8.0	7.2	7.4	8.5	5.5	7.3	5.6	5.1	5.3
17	9.1	8.7	8.9	7.7	7.1	7.4	7.5	6.8	7.2	5.6	4.9	5.2
18	9.8	8.5	9.3	7.9	6.6	7.4	7.7	6.5	7.0	4.9	3.7	4.4
19	9.5	8.7	9.2	7.7	6.5	7.4	7.6	6.3	7.0	4.4	3.8	4.0
20	9.7	9.1	9.4	7.4	6.9	7.2	8.6	7.3	7.7	4.8	4.2	4.4
21	9.8	9.4	9.6	7.7	6.0	7.0	8.8	7.6	8.3	6.0	4.1	4.7
22	9.8	9.5	9.6	7.4	5.9	6.6	8.8	8.0	8.4	5.8	4.1	4.8
23	9.6	8.3	9.2	7.1	6.4	6.7	8.9	8.3	8.6	5.3	5.3	5.3
24	9.8	9.2	9.4	7.0	6.2	6.7	8.8	8.0	8.5	5.9	5.1	5.6
25	9.8	8.3	9.1	6.9	5.5	6.2	9.2	8.2	8.7	5.4	4.1	5.0
26	9.9	9.2	9.4	6.5	5.7	6.2	8.9	8.2	8.8	4.8	4.1	4.4
27	9.8	9.2	9.4	6.8	6.1	6.5	9.2	8.2	8.7	5.9	4.6	5.5
28	9.6	9.1	9.4	6.6	5.3	6.0	8.2	7.6	7.9	5.5	4.8	5.2
29	9.4	8.9	9.2	7.0	4.6	6.2	9.1	7.9	8.6	4.3	1.3	2.9
30	9.2	8.5	8.9	6.8	6.4	6.6	8.1	7.9	8.0	3.6	.9	1.9
31	---	---	---	6.4	1.9	5.4	7.9	7.6	7.8	---	---	---
MONTH	9.9	7.1	8.7	9.5	1.9	7.3	9.2	1.6	7.3	7.9	.9	5.7
YEAR	11.1	.9	7.9									

PUMP NUMBER 4

	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	9.8	9.4	9.6
2	---	---	---	---	---	---	---	---	---	9.6	9.4	9.4
3	---	---	---	---	---	---	---	---	---	9.4	9.3	9.4
4	---	---	---	---	---	---	---	---	---	9.4	9.2	9.3
5	---	---	---	---	---	---	---	---	---	9.3	9.0	9.2
6	---	---	---	---	---	---	---	---	---	9.1	8.9	9.0
7	---	---	---	---	---	---	---	---	---	9.0	8.7	8.9
8	---	---	---	---	---	---	---	---	---	8.7	8.5	8.6
9	---	---	---	---	---	---	---	---	---	9.9	8.6	9.4
10	---	---	---	---	---	---	---	---	---	8.7	8.7	8.7
11	---	---	---	---	---	---	---	---	---	8.8	8.6	8.7
12	---	---	---	---	---	---	---	---	---	9.3	8.8	9.0
13	---	---	---	---	---	---	---	---	---	9.4	8.9	9.2
14	---	---	---	---	---	---	---	---	---	9.2	9.0	9.2
15	---	---	---	---	---	---	---	---	---	9.0	8.8	8.9
16	---	---	---	---	---	---	---	---	---	9.3	8.9	9.1
17	---	---	---	---	---	---	---	---	---	9.3	8.7	9.1
18	---	---	---	---	---	---	---	---	---	9.0	8.7	8.9
19	---	---	---	---	---	---	---	---	---	8.8	8.3	8.6
20	---	---	---	---	---	---	---	---	---	8.4	8.0	8.2
21	---	---	---	---	---	---	---	---	---	8.4	7.8	8.0
22	---	---	---	---	---	---	---	---	---	8.9	7.8	8.3
23	---	---	---	---	---	---	---	---	---	8.2	7.8	8.1
24	---	---	---	---	---	---	---	---	---	7.8	7.6	7.7
25	---	---	---	---	---	---	---	---	---	8.2	7.5	7.8
26	---	---	---	---	---	---	---	---	---	8.0	7.6	7.8
27	---	---	---	---	---	---	---	---	---	7.8	7.7	7.8
28	---	---	---	---	---	---	---	---	---	7.8	7.5	7.7
29	---	---	---	---	---	---	---	---	---	8.5	7.7	8.3
30	---	---	---	---	---	---	9.6	9.4	9.5	8.3	7.9	8.1
31	---	---	---	---	---	---	---	---	---	8.0	7.9	7.9
MONTH	---	---	---	---	---	---	9.6	9.4	9.5	9.9	7.5	8.6

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 sea level. 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.--Estimated daily discharges: July 31 to Aug. 19 and Sept. 26-29. Records good except for periods of estimated record, which are fair. Flow regulated by Martins Fork Dam (station 03400798) beginning January 1979.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	78	52	38	413	134	254	175	221	15	300	5.4
2	14	80	52	60	363	109	288	228	217	11	480	5.8
3	14	123	52	141	311	109	309	181	121	42	470	6.4
4	15	149	52	192	303	95	307	118	60	68	460	6.7
5	17	147	52	191	258	85	263	118	82	58	290	42
6	48	144	52	191	169	196	208	118	52	47	170	36
7	69	232	52	201	115	371	206	117	30	47	168	11
8	68	363	52	196	117	442	205	192	31	47	165	11
9	68	371	52	188	223	462	167	348	33	48	85	11
10	47	298	52	166	308	453	64	419	154	63	24	11
11	28	297	52	90	312	443	34	443	274	82	24	9.8
12	28	296	52	74	330	433	29	425	147	50	100	8.5
13	28	295	52	59	350	422	24	251	85	14	210	8.3
14	29	292	52	59	346	335	24	56	169	15	205	8.3
15	30	247	52	59	342	244	24	57	42	16	140	8.3
16	30	180	54	120	309	243	25	139	42	28	60	8.7
17	53	125	54	187	274	244	21	152	82	41	25	9.0
18	73	83	100	295	270	244	21	56	106	41	25	9.0
19	46	83	175	426	267	244	10	56	56	41	42	12
20	31	78	277	453	262	245	11	103	16	41	56	18
21	32	74	325	450	198	248	11	147	16	41	30	18
22	32	54	285	439	147	249	51	74	16	41	7.9	18
23	32	36	250	429	135	246	122	17	16	41	8.0	18
24	32	36	244	425	112	244	104	39	16	29	8.0	18
25	32	36	240	424	112	244	59	58	16	20	8.0	18
26	32	36	183	370	112	244	48	59	19	20	12	13
27	50	86	132	329	94	244	48	59	20	20	16	8.5
28	81	118	130	336	81	246	48	228	20	20	17	8.5
29	81	117	79	393	117	251	84	410	21	26	17	8.5
30	79	84	38	432	---	252	133	446	21	33	13	127
31	78	---	38	424	---	253	---	334	---	35	5.4	---
TOTAL	1311	4638	3384	7837	6750	8274	3202	5623	2201	1141	3641.3	501.7
MEAN	42.3	155	109	253	233	267	107	181	73.4	36.8	117	16.7
MAX	81	371	325	453	413	462	309	446	274	82	480	127
MIN	14	36	38	38	81	85	10	17	16	11	5.4	5.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1996, BY WATER YEAR (WY)

MEAN	55.3	107	154	181	216	192	119	133	65.9	26.6	30.6	28.2
MAX	181	217	452	357	481	360	383	322	267	75.3	117	117
(WY)	1990	1987	1992	1982	1994	1994	1994	1983	1989	1990	1996	1989
MIN	20.2	28.9	16.4	10.1	81.6	33.5	12.4	36.7	12.5	9.34	9.43	9.49
(WY)	1981	1981	1981	1981	1988	1988	1986	1987	1988	1988	1988	1984

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1980 - 1996

ANNUAL TOTAL	39969.0	48504.0	
ANNUAL MEAN	110	133	109
HIGHEST ANNUAL MEAN			173
LOWEST ANNUAL MEAN			58.0
HIGHEST DAILY MEAN	584	May 16	480
LOWEST DAILY MEAN	7.8	Apr 1	5.4
ANNUAL SEVEN-DAY MINIMUM	8.8	Apr 1	8.5
INSTANTANEOUS PEAK FLOW			484
INSTANTANEOUS PEAK STAGE			10.90
INSTANTANEOUS LOW FLOW			.10
10 PERCENT EXCEEDS	325	334	299
50 PERCENT EXCEEDS	52	78	50
90 PERCENT EXCEEDS	12	15	11

CUMBERLAND RIVER BASIN

03400800 MARTINS FORK NEAR SMITH, KY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1971 to current year.

pH: December 1979 to current year.

WATER TEMPERATURE: October 1971 to current year.

DISSOLVED OXYGEN: December 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1971.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (water years 1972-77, 1980 to current year): Maximum, 561 microsiemens, Feb. 12, 1972; minimum, 49 microsiemens, Feb. 26, 1985.

pH: Maximum, 8.2 units, July 2, 1980; minimum, 5.9 units, Jan. 6, 7, 1996.

WATER TEMPERATURE: Maximum, 32.5°C, Aug. 6, 1982; minimum, 0.0°C, on many days during winter months.

DISSOLVED OXYGEN: Maximum, 15.6 mg/L, Jan. 20, 21, 1985; minimum, 4.6 mg/L, Aug. 10, 1994.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 169 microsiemens, Oct. 5; minimum, 83 microsiemens, Aug. 2-3.

pH: Maximum, 8.1 units, Jun. 12; minimum, 5.9 units, Jan. 6-7.

WATER TEMPERATURE: Maximum, 27.5°C, Sep. 12; minimum, 2.9°C, Feb. 4-5.

DISSOLVED OXYGEN: Maximum, 13.2 mg/L, Feb. 4-5; minimum, 6.4 mg/L, Sept. 9.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	160	147	151	137	134	137	137	132	134	146	138	141
2	156	148	152	142	135	139	137	133	134	150	139	146
3	153	149	152	143	136	141	134	133	134	140	135	138
4	158	153	154	144	140	143	138	134	135	140	135	137
5	169	150	160	145	138	141	135	135	135	135	126	132
6	163	155	157	139	131	137	136	135	136	138	123	129
7	160	152	156	132	127	130	136	132	135	138	134	138
8	152	145	150	132	121	125	137	133	136	---	---	---
9	145	137	143	122	118	121	133	130	133	---	---	---
10	150	137	143	127	115	121	131	130	130	145	133	138
11	147	142	144	116	112	115	131	127	130	---	---	---
12	147	138	143	121	113	117	132	127	127	---	---	---
13	147	138	143	122	119	120	132	128	129	---	---	---
14	151	143	146	119	112	118	129	125	128	---	---	---
15	148	143	146	116	112	115	133	125	129	---	---	---
16	152	140	147	120	116	117	134	130	132	147	142	144
17	149	145	149	124	117	120	137	134	135	142	134	138
18	146	142	145	124	120	124	138	135	137	138	122	131
19	146	138	143	128	124	126	138	127	131	122	103	110
20	143	138	141	132	128	129	136	124	131	118	102	113
21	143	135	139	133	129	133	133	128	130	114	106	110
22	144	139	143	133	129	130	137	129	133	117	105	109
23	144	136	141	133	129	133	141	137	140	132	105	115
24	145	137	142	137	133	134	141	134	136	109	105	107
25	146	141	144	134	129	133	135	123	130	119	108	115
26	147	142	144	138	134	135	123	115	120	121	114	119
27	148	140	145	138	134	134	128	119	124	117	113	114
28	145	144	145	135	131	133	137	124	131	113	109	111
29	146	138	145	132	131	132	137	133	135	109	97	103
30	143	135	141	136	132	133	138	133	134	109	104	105
31	140	135	138	---	---	---	138	134	134	123	108	115
MONTH	169	135	146	145	112	129	141	115	132	150	97	123

CUMBERLAND RIVER BASIN

03400800 MARTINS FORK NEAR SMITH, KY--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	115	112	113	113	109	111	109	98	104	119	115	116
2	118	112	116	---	---	---	117	97	104	119	115	115
3	118	111	113	110	105	109	121	101	111	115	111	114
4	111	107	108	110	110	110	117	97	105	119	111	115
5	113	110	110	110	110	110	109	105	106	119	111	115
6	113	110	113	110	103	108	109	105	105	115	111	112
7	117	113	115	107	99	101	105	101	102	111	110	110
8	136	116	122	103	95	99	105	101	102	118	110	110
9	120	109	113	107	95	103	113	101	104	122	106	115
10	111	105	108	112	100	107	113	105	107	110	102	106
11	111	104	107	108	104	106	121	105	113	114	102	109
12	104	96	99	108	96	102	124	105	117	118	106	112
13	100	91	95	101	93	98	120	112	117	122	110	116
14	95	91	91	105	93	99	120	112	113	118	113	117
15	99	95	95	101	93	96	112	112	112	117	113	115
16	102	98	100	110	97	105	112	108	112	117	109	113
17	102	94	98	110	102	107	116	112	112	117	105	112
18	102	98	98	113	102	107	116	112	112	113	109	112
19	101	97	99	113	101	107	116	116	116	113	113	113
20	101	98	99	101	101	101	124	116	118	117	113	113
21	102	98	99	109	101	105	120	116	119	117	113	113
22	107	95	100	105	101	105	120	115	118	117	105	110
23	111	87	102	109	101	105	123	115	118	105	105	105
24	103	91	97	109	105	105	115	111	113	121	105	113
25	104	100	103	113	102	107	115	111	111	124	117	121
26	108	100	104	110	102	108	115	115	115	128	121	122
27	108	100	105	114	106	108	115	115	115	132	121	124
28	112	104	108	114	110	112	115	115	115	132	117	122
29	113	105	109	114	106	109	119	115	115	125	106	115
30	---	---	---	110	98	103	119	115	118	110	102	106
31	---	---	---	114	98	105	---	---	---	102	98	102
MONTH	136	87	105	114	93	105	124	97	112	132	98	113
	JUNE			JULY			AUGUST			SEPTEMBER		
1	106	98	101	109	109	109	138	87	106	119	119	119
2	106	98	102	117	109	110	87	83	84	119	119	119
3	106	102	104	121	105	113	87	83	85	119	118	118
4	129	106	112	113	109	110	95	87	92	122	118	118
5	129	114	118	113	109	109	99	90	93	122	118	120
6	122	110	116	113	109	111	98	86	93	122	122	122
7	118	110	113	113	113	113	102	94	99	122	122	122
8	118	114	116	113	113	113	110	98	105	122	122	122
9	118	114	116	117	113	113	115	107	109	125	122	122
10	118	106	111	121	113	115	107	103	105	126	122	126
11	110	106	110	117	116	116	107	103	105	126	126	126
12	141	106	121	120	116	117	123	103	114	126	126	126
13	133	110	124	121	116	118	126	119	121	130	130	130
14	118	110	114	121	117	120	123	115	120	130	126	130
15	118	114	116	124	117	121	119	111	114	130	130	130
16	118	114	115	121	121	121	116	108	111	134	129	132
17	122	114	117	121	121	121	112	108	109	137	133	134
18	122	118	119	125	121	122	112	108	110	133	133	133
19	122	118	120	125	122	123	116	108	111	141	133	138
20	122	117	119	125	122	125	115	111	113	145	141	153
21	117	117	117	125	125	125	115	111	114	145	141	143
22	117	113	116	129	125	126	115	111	112	145	145	145
23	117	117	117	130	126	128	111	111	111	149	145	147
24	---	---	---	138	126	130	115	111	113	149	145	149
25	---	---	---	130	125	129	115	111	114	149	145	147
26	117	105	109	129	129	129	115	111	114	149	145	149
27	109	105	108	129	129	129	119	115	115	149	145	148
28	109	105	108	129	125	129	119	115	117	157	145	152
29	109	105	109	129	129	129	119	115	118	153	133	143
30	109	105	108	130	129	129	123	115	119	133	122	126
31	---	---	---	142	130	134	119	119	119	---	---	---
MONTH	141	98	113	142	105	121	138	83	109	157	118	133
YEAR	169	83	120									

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996																
DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY	
1	6.9	6.9	7.0	7.0	6.9	6.9	6.1	5.9	---	---	7.1	7.0	---	---	---	---
2	6.9	6.8	7.0	7.0	6.9	6.9	6.1	6.0	---	---	---	---	---	---	---	---
3	6.8	6.7	7.0	6.9	6.9	6.9	6.3	6.1	---	---	7.2	7.1	---	---	7.2	7.1
4	6.8	6.7	7.1	6.9	7.0	6.9	6.4	6.2	---	---	7.2	7.1	---	---	7.2	7.1
5	6.8	6.7	6.9	6.9	6.9	6.9	6.2	6.1	---	---	7.2	7.2	---	---	7.2	7.2
6	6.8	6.7	7.0	6.9	7.0	6.8	6.2	5.9	---	---	7.2	7.2	---	---	7.2	7.2
7	6.8	6.7	6.9	6.9	7.0	6.9	5.9	5.9	---	---	7.2	7.1	---	---	7.2	7.1
8	6.7	6.6	6.9	6.8	7.0	6.9	---	---	---	---	7.1	7.0	---	---	7.1	7.0
9	6.7	6.6	6.9	6.8	6.9	6.9	---	---	---	---	7.1	7.0	---	---	7.1	7.0
10	6.7	6.6	6.8	6.7	7.0	6.9	---	---	---	---	7.1	7.0	---	---	7.1	7.0
11	6.7	6.6	6.7	6.7	7.0	6.9	---	---	---	---	7.1	7.0	---	---	7.1	7.0
12	7.0	6.6	6.7	6.7	7.0	6.9	---	---	---	---	7.1	7.0	---	---	7.1	7.0
13	7.0	6.9	7.0	6.7	7.0	6.8	---	---	---	---	7.1	7.0	---	---	7.1	7.0
14	7.0	6.9	7.0	6.9	7.0	6.6	---	---	---	---	7.1	7.0	---	---	7.1	7.0
15	7.1	7.0	6.9	6.9	7.2	6.6	---	---	---	---	7.1	7.0	---	---	7.1	7.0
16	7.0	6.9	6.9	6.9	7.1	6.8	---	---	---	---	7.1	7.0	---	---	7.1	7.0
17	6.9	6.9	6.9	6.9	7.1	6.7	---	---	---	---	7.1	7.0	---	---	7.1	7.0
18	7.0	6.9	6.9	6.9	7.0	6.7	---	---	---	---	7.1	7.0	---	---	7.1	7.0
19	7.0	6.9	6.9	6.9	6.9	6.8	---	---	---	---	7.1	7.0	---	---	7.1	7.0
20	7.0	6.9	6.9	6.9	6.8	6.8	---	---	7.2	7.0	7.1	7.1	---	---	7.1	7.1
21	7.0	6.9	6.9	6.9	6.8	6.7	---	---	---	---	7.2	7.1	---	---	7.2	7.1
22	7.1	7.0	6.9	6.9	6.7	6.7	---	---	7.1	7.0	7.1	7.1	---	---	7.1	7.1
23	7.0	6.9	6.9	6.9	6.7	6.6	---	---	7.1	7.0	7.1	7.1	---	---	7.1	7.1
24	7.0	6.9	6.9	6.9	6.6	6.6	---	---	7.1	7.0	7.2	7.1	---	---	7.2	7.1
25	7.0	6.9	6.9	6.9	6.6	6.4	---	---	7.1	7.0	7.1	7.1	---	---	7.2	7.1
26	7.1	6.9	6.9	6.9	6.4	6.3	---	---	7.1	7.0	7.2	7.1	---	---	7.2	7.1
27	7.1	7.1	7.0	6.9	6.4	6.2	---	---	7.1	7.0	7.2	7.1	---	---	7.2	7.1
28	7.2	7.1	6.9	6.9	6.6	6.3	---	---	7.1	7.0	7.1	7.1	---	---	7.1	7.1
29	7.2	7.0	6.9	6.9	6.6	6.1	---	---	7.1	7.0	7.1	7.1	---	---	7.1	7.1
30	7.1	7.0	6.9	6.9	6.7	6.0	---	---	---	---	7.1	7.1	---	---	7.1	7.1
31	7.0	7.0	---	---	6.3	6.0	---	---	---	---	7.1	7.1	---	---	7.1	7.1
MONTH	7.2	6.6	7.1	6.7	7.2	6.0	6.4	5.9	7.2	7.0	7.2	7.0	7.0	7.0	7.2	7.0
1	7.1	6.9	7.1	7.0	7.0	6.9	7.0	6.8	6.9	6.6	7.0	6.8	6.6	6.9	7.0	6.8
2	7.0	6.9	7.1	7.0	6.9	6.9	7.0	6.8	6.7	6.6	6.9	6.8	6.6	6.9	6.9	6.8
3	7.0	6.9	7.1	7.0	7.0	6.9	7.1	6.8	6.7	6.6	6.9	6.9	6.6	6.9	6.8	6.8
4	7.1	6.9	7.1	7.0	7.1	6.9	7.0	6.9	6.7	6.7	6.9	6.9	6.7	6.9	6.7	6.7
5	6.9	6.9	7.1	7.0	7.9	6.9	7.0	6.9	6.7	6.6	6.9	6.8	6.6	6.8	6.7	6.7
6	6.9	6.9	7.0	7.0	7.0	6.9	7.0	6.9	6.7	6.7	6.8	6.8	6.7	6.7	6.7	6.7
7	7.0	6.9	7.0	7.0	7.2	6.9	7.0	6.9	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
8	7.0	6.9	7.1	6.9	7.3	6.9	7.0	6.9	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
9	7.1	7.0	7.1	6.9	7.0	6.9	7.0	6.9	6.9	6.7	6.7	6.7	6.7	6.7	6.7	6.7
10	7.0	6.9	7.0	6.9	7.1	6.8	7.0	6.8	6.9	6.8	6.7	6.7	6.8	6.7	6.7	6.7
11	7.1	7.0	7.0	6.9	6.9	6.8	6.8	6.7	6.9	6.8	6.8	6.8	6.8	6.8	6.8	6.7
12	7.2	7.0	7.0	6.9	8.1	6.8	6.8	6.7	7.0	6.7	6.6	6.6	6.7	6.6	6.6	6.6
13	7.2	7.1	7.0	6.9	7.3	6.8	6.8	6.7	6.8	6.7	6.7	6.7	6.7	6.6	6.6	6.6
14	7.2	7.1	7.2	7.0	7.0	6.8	6.8	6.7	6.7	6.8	6.7	6.7	6.7	6.6	6.6	6.6
15	7.2	7.1	7.2	7.1	7.0	6.9	6.9	6.8	6.9	6.8	6.7	6.7	6.8	6.6	6.6	6.6
16	7.2	7.1	7.2	7.0	7.0	6.9	6.9	6.8	6.9	6.8	6.7	6.7	6.8	6.6	6.6	6.6
17	7.1	7.0	7.2	7.0	7.0	6.9	6.9	6.8	6.9	6.8	6.7	6.7	6.8	6.6	6.6	6.6
18	7.2	7.0	7.1	7.0	7.2	6.9	6.9	6.8	7.0	6.9	6.7	6.7	6.8	6.6	6.6	6.6
19	7.1	7.0	7.2	7.1	7.0	6.9	6.9	6.8	6.9	6.8	6.7	6.7	6.8	6.6	6.6	6.6
20	7.1	7.0	7.1	7.0	7.0	6.8	6.9	6.8	6.9	6.8	6.7	6.7	6.8	6.6	6.6	6.6
21	7.0	7.0	7.0	6.9	7.0	6.9	6.9	6.8	6.9	6.8	6.7	6.7	6.8	6.6	6.6	6.6
22	7.1	6.9	6.9	6.8	7.1	6.9	6.9	6.8	6.9	6.8	6.7	6.7	6.8	6.6	6.6	6.6
23	7.1	6.9	6.9	6.8	7.1	6.9	6.9	6.8	6.9	6.8	6.7	6.7	6.8	6.6	6.6	6.6
24	7.0	6.9	7.0	6.8	---	---	7.1	6.8	6.9	6.8	6.7	6.7	6.8	6.6	6.6	6.6
25	7.1	6.9	7.1	7.0	---	---	6.9	6.7	6.9	6.7	6.9	6.9	6.7	6.6	6.6	6.6
26	7.0	6.9	7.1	7.0	7.0	6.9	6.9	6.8	6.9	6.8	6.7	6.7	6.8	6.6	6.6	6.6
27	7.0	6.9	7.1	7.0	7.0	6.9	6.9	6.8	6.9	6.8	6.7	6.7	6.8	6.6	6.6	6.6
28	7.0	6.9	7.1	6.9	7.0	6.9	6.9	6.8	6.9	6.8	6.7	6.7	6.8	6.6	6.6	6.6
29	7.1	6.9	7.0	6.9	7.0	6.9	6.9	6.8	6.9	6.8	6.7	6.7	6.8	6.6	6.6	6.6
30	7.1	7.0	7.0	6.9	7.0	6.9	6.8	6.7	6.9	6.8	6.7	6.7	6.8	6.6	6.6	6.6
31	---	---	6.9	6.9	---	---	7.0	6.7	6.9	6.7	---	---	6.8	6.6	---	---
MONTH	7.2	6.9	7.2	6.8	8.1	6.8	7.1	6.7	7.0	7.0	7.1	6.6	7.0	6.6	7.1	6.6
YEAR	8.1	5.9														

CUMBERLAND RIVER BASIN

03400800 MARTINS FORK NEAR SMITH, KY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	23.9	20.6	21.8	16.2	15.4	15.7	9.2	8.4	8.7	6.0	5.2	5.6
2	23.3	21.0	21.8	16.2	15.8	15.9	9.3	8.4	8.8	6.2	6.0	6.0
3	22.1	21.3	21.6	16.2	15.2	15.4	9.1	8.3	8.7	5.8	4.8	5.1
4	22.2	21.4	21.7	15.2	14.6	15.0	9.3	8.5	8.9	4.9	4.6	4.8
5	22.2	21.4	21.8	14.6	14.0	14.4	8.9	8.5	8.7	5.3	4.9	5.1
6	22.7	21.3	22.0	14.2	13.8	13.9	9.1	8.3	8.6	5.1	4.9	4.9
7	21.5	20.8	21.3	13.8	13.2	13.6	8.5	7.5	8.1	5.1	4.9	4.9
8	21.7	20.6	21.0	13.2	12.6	13.1	8.1	7.3	7.7	---	---	---
9	21.6	20.5	20.8	12.9	12.3	12.6	7.8	6.2	7.5	---	---	---
10	23.0	20.5	21.3	12.9	12.1	12.6	6.4	5.9	6.1	5.2	4.6	4.9
11	22.7	20.9	21.6	12.7	11.7	12.2	6.4	5.7	6.0	---	---	---
12	22.1	20.4	21.0	11.7	11.1	11.4	6.2	5.9	6.0	---	---	---
13	21.4	20.2	20.7	11.3	11.1	11.2	6.4	5.9	6.0	---	---	---
14	21.3	19.9	20.7	11.3	10.7	11.1	6.4	5.7	6.0	---	---	---
15	20.9	19.1	19.9	10.8	10.4	10.5	6.6	6.0	6.3	---	---	---
16	21.8	18.7	20.2	10.7	10.1	10.4	6.6	6.1	6.4	5.4	5.2	5.3
17	19.9	19.5	19.6	10.9	10.0	10.4	6.9	6.1	6.6	5.8	5.2	5.3
18	19.8	19.0	19.4	11.0	10.4	10.7	6.9	6.7	6.9	6.0	5.4	5.6
19	20.2	18.6	19.2	10.9	10.2	10.6	8.1	6.9	7.5	6.0	5.0	5.7
20	19.2	18.2	18.7	10.8	10.2	10.5	7.9	7.3	7.5	6.1	5.6	5.8
21	18.5	17.9	18.2	10.8	10.3	10.6	7.5	7.1	7.3	6.1	5.5	5.9
22	19.1	17.5	18.2	10.7	9.7	10.1	7.3	6.9	7.1	6.1	5.3	5.6
23	18.9	17.3	18.0	10.2	9.7	9.9	6.9	6.3	6.7	6.3	5.5	5.9
24	18.3	17.4	17.8	10.0	9.3	9.7	6.3	5.9	6.1	6.3	5.3	5.9
25	18.2	16.6	17.3	9.9	9.0	9.3	6.1	5.1	5.6	6.1	5.1	5.6
26	17.8	16.6	17.1	9.8	9.0	9.3	5.1	4.7	4.9	5.9	4.9	5.5
27	16.8	16.5	16.7	9.3	8.9	9.0	5.3	4.9	5.0	5.9	5.1	5.6
28	17.0	16.6	16.8	9.0	8.8	8.8	4.9	4.7	4.8	5.9	4.9	5.4
29	16.8	15.7	16.4	8.8	8.4	8.6	5.7	4.7	5.0	5.8	5.6	5.7
30	16.3	15.5	15.8	8.8	8.2	8.4	5.7	4.3	4.9	5.9	5.8	5.8
31	15.8	15.6	15.6	---	---	---	5.2	4.7	5.0	5.9	5.0	5.5
MONTH	23.9	15.5	19.5	16.2	8.2	11.5	9.3	4.3	6.8	6.3	4.6	5.5
	FEBRUARY			MARCH			APRIL			MAY		
1	5.4	5.0	5.2	8.6	8.0	8.2	9.9	8.5	9.1	16.1	14.5	15.1
2	5.2	4.5	4.9	---	---	---	9.9	8.9	9.3	16.1	15.1	15.6
3	4.5	3.5	4.2	8.6	7.8	8.2	12.6	8.9	10.3	17.2	15.3	16.0
4	3.5	2.9	3.2	8.2	7.4	7.8	13.6	9.3	11.3	17.4	15.5	16.4
5	3.5	2.9	3.2	8.3	7.7	8.0	10.9	9.9	10.3	17.5	15.7	16.5
6	4.1	3.5	3.8	9.3	8.1	8.5	10.3	9.9	10.1	16.7	16.2	16.5
7	4.3	3.9	4.1	8.5	7.7	8.1	10.7	10.1	10.3	17.0	16.0	16.4
8	4.8	4.2	4.5	7.7	7.1	7.3	10.5	9.9	10.2	17.2	15.9	16.5
9	4.8	4.2	4.5	7.1	6.5	6.9	10.9	9.9	10.3	16.8	15.9	16.3
10	4.6	4.0	4.4	6.8	6.1	6.5	10.5	9.7	10.1	18.0	16.1	16.6
11	4.8	4.4	4.5	7.2	6.2	6.5	12.0	9.1	10.5	17.2	16.6	16.9
12	4.6	4.3	4.5	6.2	5.6	5.9	14.6	9.9	12.1	17.4	16.4	16.9
13	4.7	4.3	4.5	8.0	5.6	6.6	13.0	11.6	12.5	17.4	16.3	16.9
14	4.7	4.5	4.6	9.0	6.0	7.3	14.8	11.5	13.0	18.2	16.3	17.1
15	4.9	4.7	4.7	9.0	7.4	8.2	14.0	12.0	12.9	17.2	16.6	16.8
16	4.9	4.3	4.5	8.7	7.3	7.9	12.8	11.3	12.1	17.8	16.6	16.9
17	4.3	3.9	4.1	9.7	6.9	8.2	---	---	---	19.2	16.4	17.5
18	4.4	3.8	4.1	8.7	6.9	7.9	---	---	---	18.8	16.6	17.5
19	5.2	4.2	4.5	8.6	7.8	8.1	---	---	---	18.8	16.8	17.6
20	5.0	4.4	4.7	8.6	8.0	8.2	---	---	---	18.6	17.2	17.7
21	5.8	4.5	5.1	8.8	8.2	8.5	---	---	---	19.0	17.6	18.1
22	6.8	5.8	6.3	8.2	7.4	8.0	14.6	11.8	12.5	19.4	16.4	18.1
23	8.5	5.6	6.6	7.6	7.0	7.3	15.3	11.5	12.6	19.2	15.9	17.3
24	8.3	7.1	7.7	9.0	6.8	7.7	12.5	11.5	12.0	20.6	16.2	18.4
25	8.3	6.5	7.4	10.1	7.6	8.6	14.6	11.5	12.7	20.9	18.9	19.8
26	9.7	7.3	8.5	9.7	7.7	8.5	13.8	12.2	12.8	20.1	19.1	19.5
27	10.1	8.1	9.1	9.3	7.7	8.4	14.0	12.2	12.9	20.9	18.9	19.6
28	9.7	7.4	8.3	8.5	8.1	8.3	13.8	12.2	12.9	19.5	18.3	18.9
29	9.4	7.2	8.0	8.9	8.3	8.5	16.2	13.0	14.4	19.1	17.9	18.7
30	---	---	---	9.5	8.3	8.9	16.2	14.7	15.2	19.5	18.7	19.1
31	---	---	---	9.9	9.1	9.3	---	---	---	19.3	18.7	19.1
MONTH	10.1	2.9	5.3	10.1	5.6	7.9	16.2	8.5	11.7	20.9	14.5	17.4

CUMBERLAND RIVER BASIN

03400800 MARTINS FORK NEAR SMITH, KY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	19.8	18.8	19.3	24.5	20.6	22.0	23.0	21.1	22.0	27.2	22.9	24.6
2	19.6	19.2	19.4	24.1	21.2	21.8	22.5	21.5	21.7	26.4	22.7	24.1
3	21.4	19.6	20.2	21.9	20.6	21.2	22.1	21.6	21.8	26.2	23.1	24.3
4	22.3	19.2	20.6	22.3	20.6	21.2	22.7	21.9	22.3	26.8	23.3	24.4
5	22.5	21.0	21.5	22.9	20.8	21.6	22.8	22.0	22.3	24.3	23.1	23.7
6	22.5	20.0	21.5	22.9	21.0	21.8	22.8	21.8	22.3	26.7	23.8	24.9
7	22.5	19.8	20.7	22.9	21.2	21.9	23.3	22.3	22.7	27.2	23.7	25.1
8	21.7	20.2	20.8	22.1	21.4	21.8	23.7	22.5	23.0	---	---	---
9	21.7	20.2	20.7	23.3	21.4	22.1	25.5	22.9	23.8	26.1	24.4	25.0
10	20.8	20.0	20.3	22.9	21.2	22.0	24.9	23.1	23.8	26.0	24.1	24.9
11	21.0	20.4	20.6	22.9	21.7	22.4	24.8	23.0	23.7	27.3	24.1	25.8
12	23.5	20.6	21.8	25.7	22.3	23.5	23.6	23.0	23.3	27.5	24.0	25.6
13	23.3	20.8	22.1	24.4	22.2	23.2	23.6	23.0	23.4	25.3	23.5	24.2
14	22.3	21.0	21.4	24.8	22.4	23.4	23.7	23.1	23.4	25.6	22.4	24.0
15	22.5	21.4	21.9	24.2	22.6	23.2	24.3	23.1	23.5	26.1	22.6	24.0
16	23.1	21.4	22.2	24.2	22.2	23.1	24.7	23.1	23.7	24.3	23.5	23.8
17	22.9	21.7	22.1	24.1	22.5	23.1	25.3	23.3	23.9	23.9	22.6	23.3
18	23.5	21.9	22.7	24.1	22.7	23.4	25.4	23.0	24.0	24.1	22.0	22.9
19	23.9	21.7	22.7	24.5	22.7	23.5	24.2	23.2	23.7	25.1	21.9	23.2
20	24.3	21.7	22.7	24.0	23.0	23.5	24.6	23.2	23.7	25.2	22.8	23.7
21	24.7	21.7	22.8	24.2	23.0	23.6	27.1	23.4	24.7	24.7	22.9	23.6
22	24.5	21.9	23.1	24.2	23.2	23.8	26.8	23.3	24.7	24.8	22.6	23.5
23	25.1	22.1	23.4	24.9	23.1	23.9	27.2	23.5	24.7	24.7	22.6	23.4
24	---	---	---	26.1	23.1	24.3	25.7	23.5	24.2	23.9	22.9	23.3
25	---	---	---	23.9	23.3	23.6	26.6	23.3	24.4	25.0	23.1	23.8
26	23.3	20.0	21.6	25.8	23.4	24.2	26.1	23.1	24.0	25.5	22.9	23.8
27	22.7	19.8	20.9	25.5	23.1	24.0	25.4	23.2	23.9	23.8	23.1	23.4
28	22.9	20.0	21.0	25.0	23.3	24.0	25.2	23.0	23.8	23.2	21.3	22.4
29	23.1	20.2	21.3	24.6	23.4	23.8	25.4	23.0	23.9	23.2	20.6	21.6
30	23.1	20.4	21.4	24.9	23.5	24.0	26.2	23.2	24.2	20.6	19.9	20.3
31	---	---	---	24.2	23.0	23.7	27.1	22.6	24.4	---	---	---
MONTH	25.1	18.8	21.5	26.1	20.6	23.0	27.2	21.1	23.5	27.5	19.9	23.8
YEAR	27.5	2.9	15.0									

OXYGEN DISSOLVED, (MG/L), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.4	7.9	8.2	9.9	9.8	9.9	11.3	11.2	11.2	12.3	12.0	12.2
2	8.6	8.0	8.3	9.9	9.7	9.8	11.4	11.2	11.3	12.1	11.9	12.0
3	8.7	8.2	8.3	10.1	9.7	10.0	11.5	11.3	11.4	12.3	12.2	12.3
4	8.7	8.2	8.4	10.5	10.1	10.3	11.4	11.3	11.3	12.4	12.2	12.3
5	8.5	8.0	8.3	10.6	10.4	10.5	11.4	11.2	11.3	12.3	12.0	12.1
6	8.8	8.1	8.4	10.6	10.5	10.5	11.6	11.2	11.4	12.1	12.0	12.1
7	8.6	8.3	8.5	10.8	10.5	10.6	11.6	11.4	11.5	12.0	12.0	12.0
8	8.6	8.3	8.4	11.0	10.6	10.8	11.6	11.5	11.6	---	---	---
9	8.5	8.3	8.4	10.8	10.5	10.7	11.8	11.4	11.6	12.3	12.3	12.3
10	8.5	8.1	8.3	10.8	10.5	10.7	12.1	11.8	12.0	12.3	12.0	12.1
11	8.3	8.2	8.2	10.7	10.4	10.6	12.2	11.9	12.1	---	---	---
12	8.3	7.7	8.0	10.8	10.6	10.7	12.2	12.0	12.1	---	---	---
13	8.1	7.7	7.9	10.8	10.3	10.6	12.2	12.1	12.2	---	---	---
14	8.0	7.7	7.8	10.7	10.3	10.4	12.3	12.1	12.2	---	---	---
15	8.3	8.1	8.2	10.9	10.3	10.7	12.2	12.0	12.1	---	---	---
16	8.4	7.7	8.0	10.5	10.4	10.4	12.0	12.0	12.0	12.9	12.6	12.8
17	8.2	7.8	8.1	11.0	10.4	10.7	12.2	12.0	12.1	12.7	12.6	12.7
18	9.0	8.7	8.9	11.1	10.6	10.8	12.0	11.8	11.9	12.7	12.4	12.6
19	9.1	8.6	8.8	11.2	10.8	11.0	11.8	11.5	11.6	12.6	12.3	12.5
20	8.9	8.7	8.8	11.2	10.8	11.0	11.7	11.5	11.6	12.5	12.2	12.3
21	9.1	8.8	8.9	11.3	10.8	11.1	11.8	11.6	11.7	12.5	12.2	12.4
22	9.2	9.0	9.1	11.5	11.1	11.3	11.8	11.7	11.7	12.5	12.4	12.5
23	9.3	9.0	9.1	11.3	11.1	11.3	11.9	11.8	11.8	12.4	12.3	12.4
24	9.2	9.0	9.1	11.4	11.1	11.2	12.1	11.9	12.0	12.5	12.3	12.4
25	9.4	9.1	9.2	11.4	11.2	11.3	12.2	12.0	12.1	12.6	12.4	12.5
26	9.3	8.8	9.1	11.4	11.2	11.3	12.4	12.2	12.3	12.9	12.4	12.6
27	9.0	8.9	8.9	11.5	11.3	11.4	12.4	12.2	12.3	12.8	12.6	12.7
28	9.2	8.9	9.1	11.6	11.4	11.5	12.4	12.3	12.3	12.9	12.6	12.7
29	9.6	9.2	9.4	11.5	11.4	11.4	12.4	12.3	12.3	12.6	12.6	12.6
30	9.8	9.6	9.7	11.5	11.3	11.4	12.4	12.3	12.3	12.6	12.5	12.6
31	9.9	9.7	9.8	---	---	---	12.5	12.2	12.3	12.7	12.5	12.6
MONTH	9.9	7.7	8.6	11.6	9.7	10.8	12.5	11.2	11.9	12.9	11.9	12.4

CUMBERLAND RIVER BASIN

03401000 CUMBERLAND RIVER NEAR HARLAN, KY

LOCATION.--Lat 36°50'48", long 83°21'21", Harlan County, Hydrologic Unit 05130101, on left bank 10 ft downstream from bridge on State Highway 840 at Loyall, 1.6 mi upstream from Fourmile Branch, 1.8 mi west of Harlan, 2.3 mi downstream from confluence of Poor and Clover Forks, and at mile 691.9.

DRAINAGE AREA.--374 mi².

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

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

GAGE.--Water-stage recorder. Datum of gage is 1,140.10 ft above sea level. Prior to Nov. 4, 1941, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 1 to Mar. 5 and Mar. 8 to Sept. 30. Records poor. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	120	360	400	1000	1500	1700	1500	1300	150	1600	140
2	52	270	320	860	760	1000	1800	1700	880	180	1400	130
3	48	520	290	2400	600	880	1900	1400	800	600	900	120
4	70	400	290	1900	500	720	1600	1050	740	380	680	210
5	240	290	280	1300	420	800	1300	900	560	270	520	320
6	400	230	270	820	400	7060	1100	800	490	210	400	280
7	260	1950	270	1100	380	8490	960	920	440	180	320	260
8	150	2100	280	900	1000	5000	920	3500	450	420	300	300
9	110	1300	310	750	4500	2900	940	5100	1400	1300	700	240
10	92	750	350	680	2700	2000	820	3400	1800	750	480	180
11	80	900	310	600	2200	1800	700	2600	1200	450	330	160
12	72	1500	330	540	1700	1600	650	1800	900	330	1300	150
13	62	1100	310	500	1400	1400	620	1300	1000	280	1700	240
14	80	750	330	480	1100	1300	600	920	960	330	1100	180
15	150	640	390	620	1400	1400	550	900	730	380	740	160
16	120	520	500	1600	1300	1700	780	980	540	500	520	150
17	100	430	560	2300	1100	1900	720	1000	440	400	380	170
18	110	370	600	2100	950	1700	700	820	520	330	370	160
19	100	310	2000	6000	800	1900	740	660	500	300	310	140
20	96	280	3400	3000	880	2100	1000	540	440	330	290	130
21	92	260	2100	1900	960	1800	2000	520	400	290	270	130
22	89	240	1400	1500	940	1600	1600	880	340	270	240	120
23	85	210	920	1200	880	1500	1300	680	290	250	200	110
24	80	230	750	2500	820	1600	980	500	250	220	170	105
25	76	210	620	2700	740	1800	840	650	270	240	200	110
26	72	190	500	1800	700	1700	920	950	230	400	190	100
27	100	170	420	4500	710	1300	1050	1500	200	320	180	110
28	250	230	380	2400	2200	1700	920	3300	190	260	250	1100
29	190	340	340	1800	2100	2200	820	5800	170	220	200	2000
30	160	390	300	1500	---	1800	1300	3100	160	200	170	920
31	140	---	310	1300	---	1600	---	1800	---	600	150	---
TOTAL	3782	17200	19790	51950	35140	65750	31830	51470	18590	11340	16560	8625
MEAN	122	573	638	1676	1212	2121	1061	1660	620	366	534	287
MAX	400	2100	3400	6000	4500	8490	2000	5800	1800	1300	1700	2000
MIN	48	120	270	400	380	720	550	500	160	150	150	100
CFSM	.33	1.53	1.71	4.48	3.24	5.67	2.84	4.44	1.66	.98	1.43	.77
IN.	.38	1.71	1.97	5.17	3.50	6.54	3.17	5.12	1.85	1.13	1.65	.86

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1996, BY WATER YEAR (WY)

MEAN	179	455	909	1188	1345	1464	1035	749	387	312	223	130
MAX	1129	2004	2704	2767	3259	4148	2771	2003	1789	1414	1202	864
(WY)	1990	1978	1992	1974	1994	1963	1977	1984	1989	1941	1942	1989
MIN	9.00	25.8	43.6	63.5	105	334	211	119	76.0	21.4	40.0	14.3
(WY)	1954	1954	1966	1981	1941	1988	1986	1941	1948	1944	1951	1953

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1940 - 1996	
ANNUAL TOTAL	245885		332027			
ANNUAL MEAN	674		907		695	
HIGHEST ANNUAL MEAN					1130	
LOWEST ANNUAL MEAN					293	
HIGHEST DAILY MEAN	8340	May 14	8490	Mar 7	33900	Apr 4 1977
LOWEST DAILY MEAN	39	Sep 6	48	Oct 3	5.0	Oct 9 1953
ANNUAL SEVEN-DAY MINIMUM	42	Aug 31	84	Oct 20	6.7	Oct 7 1953
INSTANTANEOUS PEAK FLOW			11100	Mar 6	64500	Apr 5 1977
INSTANTANEOUS PEAK STAGE			11.74	Mar 6	30.20	Apr 5 1977
INSTANTANEOUS LOW FLOW			48	Oct 3	3.0	Oct 9 1953
ANNUAL RUNOFF (CFSM)	1.80		2.43		1.86	
ANNUAL RUNOFF (INCHES)	24.46		33.03		25.25	
10 PERCENT EXCEEDS	1810		1900		1570	
50 PERCENT EXCEEDS	304		600		331	
90 PERCENT EXCEEDS	69		147		54	

CUMBERLAND RIVER BASIN

03402000 YELLOW CREEK NEAR MIDDLESBORO, KY

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

DRAINAGE AREA.--60.6 mi². Drainage area at site used prior to Oct. 1970, 58.2 mi² and at site used Oct. 1, 1970 to Sept. 30, 1973, 62.8 mi².

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

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

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

REMARKS.--Estimated daily discharges: Feb. 2-7. Records good except for period of estimated record, which is poor. Occasional regulation from Fern Lake.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	17	60	66	145	118	427	202	85	22	335	17
2	7.1	171	55	290	120	110	395	162	88	30	123	16
3	9.0	81	50	402	95	95	288	133	116	60	77	18
4	20	43	52	214	80	81	225	109	94	27	56	44
5	152	31	46	148	65	116	191	92	71	23	46	50
6	66	26	42	153	60	886	157	92	60	21	56	24
7	27	804	52	209	75	1600	137	219	54	20	53	21
8	19	234	46	142	315	638	138	291	82	50	55	19
9	16	96	79	116	829	328	136	243	569	114	44	18
10	13	64	62	108	467	220	112	172	373	38	33	17
11	12	383	57	96	335	175	104	132	177	27	36	17
12	12	230	52	101	242	150	98	108	131	25	884	19
13	12	132	52	89	186	130	94	88	189	23	360	30
14	44	105	57	92	166	115	89	77	314	105	146	17
15	34	75	60	169	189	272	94	131	155	122	93	16
16	19	60	92	361	163	345	109	89	105	70	69	22
17	16	52	93	641	141	296	84	74	79	47	71	21
18	14	45	101	591	129	225	81	63	70	48	61	18
19	13	39	443	1650	116	410	84	56	56	41	47	16
20	16	34	452	516	189	387	209	51	53	51	39	15
21	18	33	228	311	175	295	246	45	46	41	36	14
22	14	30	148	209	160	235	186	40	38	37	30	16
23	13	44	111	169	143	225	153	35	33	31	27	14
24	12	52	89	569	120	228	124	33	34	27	25	14
25	12	39	75	398	104	302	109	54	34	58	27	14
26	12	36	66	409	96	265	157	138	30	61	24	14
27	52	36	61	1480	91	213	121	139	28	38	27	76
28	58	41	54	534	166	411	108	595	26	31	23	342
29	27	82	47	330	129	400	102	308	25	30	21	122
30	21	63	43	233	---	291	245	161	24	28	19	60
31	18	---	51	186	---	257	---	110	---	341	18	---
TOTAL	785.2	3178	2976	10982	5291	9819	4803	4242	3239	1687	2961	1121
MEAN	25.3	106	96.0	354	182	317	160	137	108	54.4	95.5	37.4
MAX	152	804	452	1650	829	1600	427	595	569	341	884	342
MIN	7.1	17	42	66	60	81	81	33	24	20	18	14
CFSM	.42	1.75	1.58	5.85	3.01	5.23	2.64	2.26	1.78	.90	1.58	.62
IN.	.48	1.95	1.83	6.74	3.25	6.03	2.95	2.60	1.99	1.04	1.82	.69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1996, BY WATER YEAR (WY)

MEAN	25.1	77.7	166	213	236	256	175	119	65.6	53.0	36.7	20.3
MAX	155	416	609	551	677	610	551	539	298	345	197	109
(WY)	1978	1974	1991	1974	1991	1975	1977	1984	1989	1967	1942	1982
MIN	3.05	5.35	7.34	14.4	14.9	47.6	34.9	17.2	13.8	4.26	6.00	3.02
(WY)	1954	1941	1966	1981	1941	1988	1986	1941	1988	1944	1951	1954

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1941 - 1996	
ANNUAL TOTAL	35725.6		51084.2			
ANNUAL MEAN	97.9		140		120	
HIGHEST ANNUAL MEAN					219	
LOWEST ANNUAL MEAN					49.5	
HIGHEST DAILY MEAN	1420	Mar 8	1650	Jan 19	7000	Apr 4 1977
LOWEST DAILY MEAN	5.1	Aug 27	7.1	Oct 1	1.2	Oct 7 1952
ANNUAL SEVEN-DAY MINIMUM	5.3	Aug 25	14	Oct 20	1.6	Sep 17 1955
INSTANTANEOUS PEAK FLOW			2420	Jan 19	11700	Apr 4 1977
INSTANTANEOUS PEAK STAGE			11.41	Jan 19	23.35	Apr 4 1977
INSTANTANEOUS LOW FLOW			6.7	Oct 2	.00	Sep 26 1952
ANNUAL RUNOFF (CFSM)	1.62	2.30	1.98			
ANNUAL RUNOFF (INCHES)	21.93	31.36	26.86			
10 PERCENT EXCEEDS	207		331		256	
50 PERCENT EXCEEDS	47		79		45	
90 PERCENT EXCEEDS	7.9		18		7.7	

CUMBERLAND RIVER BASIN

03402900 CUMBERLAND RIVER AT PINE ST 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 sea level, Sandy Hook datum.

REMARKS.--Estimated daily discharges: Feb. 2-7. Records good except for period of estimated record, which is poor. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	221	712	674	2070	2550	3540	2680	1980	283	3160	236
2	80	395	639	1780	1700	2050	3690	2470	1560	431	1780	215
3	76	1040	576	4290	1400	1660	3270	2170	1510	1240	1360	223
4	119	729	594	2890	1100	1360	2740	1830	1370	820	1050	450
5	440	556	570	2030	900	1280	2240	1530	1030	519	909	580
6	761	448	539	1730	800	9470	2040	1380	893	400	752	445
7	475	4030	554	2330	860	14900	1810	1660	800	331	600	430
8	274	4340	556	1920	2190	10600	1640	9010	826	471	538	613
9	209	1830	625	1520	9000	4910	1650	8380	2650	2490	1100	376
10	174	1210	735	1360	6390	3360	1400	3920	2970	1400	1090	286
11	154	1670	677	1190	4180	2750	1220	2890	1850	743	579	255
12	141	2810	648	1110	3340	2420	1180	2410	1700	613	2330	240
13	115	1810	619	1020	2600	2160	1090	2010	1930	519	3070	381
14	141	1360	646	942	2250	1960	1070	1570	1810	647	1910	350
15	245	1150	728	1260	2600	2130	1020	1570	1400	782	1300	270
16	248	933	930	2900	2730	3200	1430	1830	979	934	930	240
17	192	772	1130	4870	2280	3470	1370	1680	821	734	705	253
18	158	671	1180	4610	1940	3130	1310	1460	759	628	662	261
19	151	573	2720	10400	1660	3460	1290	1180	841	552	571	240
20	160	525	6430	7380	1710	3990	1750	1030	766	527	464	223
21	152	480	3600	3870	1910	3280	3320	958	652	553	444	198
22	136	437	2260	2750	1800	2750	2600	1040	595	520	401	201
23	136	405	1650	2290	1730	2670	2070	1270	522	459	324	193
24	130	450	1310	4080	1520	2810	1780	815	463	383	289	176
25	119	419	1120	5400	1430	3220	1670	1130	442	465	321	181
26	116	384	1000	3810	1390	3160	1720	1590	433	771	307	180
27	145	372	870	8650	1380	2590	1800	2470	374	620	344	209
28	428	397	759	6600	3220	3240	1620	6400	337	459	399	2140
29	462	666	694	3890	3470	4410	1530	8520	313	391	371	3770
30	310	752	621	2960	---	3540	2210	5100	296	354	288	1500
31	246	---	566	2480	---	2910	---	2880	---	1180	254	---
TOTAL	6782	31835	36258	102986	69550	115390	57070	84833	32872	21219	28602	15315
MEAN	219	1061	1170	3322	2398	3722	1902	2737	1096	684	923	510
MAX	761	4340	6430	10400	9000	14900	3690	9010	2970	2490	3160	3770
MIN	76	221	539	674	800	1280	1020	815	296	283	254	176
CFSM	.28	1.38	1.52	4.31	3.11	4.83	2.47	3.55	1.42	.89	1.20	.66
IN.	.33	1.54	1.75	4.98	3.36	5.57	2.76	4.10	1.59	1.03	1.38	.74

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1996, BY WATER YEAR (WY)

MEAN	209	653	2406	2634	2935	3699	2145	1767	789	417	511	266
MAX	330	1061	5204	4201	6720	5367	4437	3091	1418	684	923	510
(WY)	1993	1996	1992	1994	1994	1994	1994	1995	1992	1996	1996	1996
MIN	142	271	534	1540	1020	2139	817	796	378	176	107	98.4
(WY)	1992	1995	1995	1993	1992	1992	1995	1993	1993	1993	1995	1995

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1992 - 1996

ANNUAL TOTAL	448330	602712	
ANNUAL MEAN	1228	1647	1532
HIGHEST ANNUAL MEAN			2241
LOWEST ANNUAL MEAN			1104
HIGHEST DAILY MEAN	14600	May 15	14900
LOWEST DAILY MEAN	55	Sep 8	76
ANNUAL SEVEN-DAY MINIMUM	57	Sep 5	133
INSTANTANEOUS PEAK FLOW			17200
INSTANTANEOUS PEAK STAGE			27.09
INSTANTANEOUS LOW FLOW			71
ANNUAL RUNOFF (CFSM)	1.60	2.14	1.99
ANNUAL RUNOFF (INCHES)	21.66	29.12	27.04
10 PERCENT EXCEEDS	2960	3470	3300
50 PERCENT EXCEEDS	590	1090	730
90 PERCENT EXCEEDS	98	243	144

CUMBERLAND RIVER BASIN

03403500 CUMBERLAND RIVER AT BARBOURVILLE, KY

LOCATION.--Lat 36°51'45", long 83°53'13". Knox County, Hydrologic Unit 05130101, on right bank 100 ft upstream from bridge on State Highway 11, at Barbourville, 0.4 mi upstream from Richland Creek, and at mile 635.2

DRAINAGE AREA.--960 mi²

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

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

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

REMARKS.--Estimated daily discharges: Oct. 1-Dec. 10, Feb. 2-7. Records good except for discharges above 10,000 ft³/s, which are fair and periods of estimated record, which are poor. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979. Diversion above station by city of Barbourville for municipal water supply.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	300	870	814	2620	3600	4700	3450	2670	356	3580	274
2	95	600	780	1980	2200	2740	4960	3170	2010	378	2140	257
3	90	1400	710	5870	1700	2180	4400	2710	2080	1600	1540	266
4	170	1000	740	4950	1400	1780	3710	2230	1930	1130	1160	462
5	600	780	710	3020	1100	1620	3300	1850	1480	711	967	573
6	1100	680	670	2270	940	7990	2830	1650	1240	515	853	533
7	750	5000	700	2680	1000	18200	2430	1880	1100	423	627	452
8	500	6000	720	2430	3300	20000	2220	9030	1240	384	609	644
9	380	3500	850	2000	9960	12500	2220	16600	5660	2060	785	465
10	250	2000	950	1830	10900	6230	1960	9210	9170	1960	1410	354
11	210	2500	864	1660	6400	3620	1710	4160	4040	957	708	291
12	190	4100	823	1510	4270	3100	1540	3070	2420	703	1550	263
13	155	2900	774	1410	3340	2740	1450	2470	2870	572	3500	411
14	190	1900	786	1290	2820	2430	1460	1980	2520	623	2210	431
15	300	1450	885	1760	3050	2550	1370	1790	2040	794	1480	350
16	320	1300	1110	3630	3500	3860	1780	2160	1400	961	1090	290
17	250	1050	1480	6270	3100	4660	1850	1920	1090	835	855	290
18	190	850	1830	6880	2670	4420	1650	1780	947	656	792	306
19	175	740	3080	10300	2280	4140	1590	1400	959	557	654	294
20	195	630	8470	12600	2180	4960	1880	1200	945	484	530	259
21	180	580	6540	6990	2390	4390	4010	1060	798	554	472	246
22	160	540	3380	3830	2350	3710	3620	1080	725	567	443	243
23	160	500	2290	2990	2240	3580	2830	1490	613	498	383	236
24	150	570	1780	3960	2030	3610	2360	1010	544	419	327	218
25	140	520	1490	7290	1740	3870	1990	1140	500	445	342	216
26	135	470	1320	5150	1550	4120	2010	1440	501	857	343	212
27	180	440	1160	7560	1540	3500	2180	3000	456	745	338	224
28	520	500	983	9860	3670	3670	1950	5700	410	530	452	983
29	610	800	869	5720	5210	5510	1790	11200	391	442	403	4290
30	430	960	787	3870	---	5130	2470	9190	384	401	336	2020
31	330	---	699	3230	---	4110	---	4230	---	618	289	---
TOTAL	9215	44560	49100	135604	91450	158520	74220	114250	53133	22735	31168	16353
MEAN	297	1485	1584	4374	3153	5114	2474	3685	1771	733	1005	545
MAX	1100	6000	8470	12600	10900	20000	4960	16600	9170	2060	3580	4290
MIN	90	300	670	814	940	1620	1370	1010	384	356	289	212
CFSM	.31	1.55	1.65	4.56	3.28	5.33	2.58	3.84	1.84	.76	1.05	.57
IN.	.36	1.73	1.90	5.25	3.54	6.14	2.88	4.43	2.06	.88	1.21	.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 1996, BY WATER YEAR (WY)

MEAN	397	1240	2402	3033	3373	3715	2668	2007	630	426	303
MAX	3058	5231	9398	8182	7919	10470	6320	6782	5524	2346	1894
(WY)	1990	1974	1927	1974	1956	1963	1977	1984	1989	1967	1971
MIN	9.86	43.7	102	135	567	791	549	459	121	62.8	27.0
(WY)	1954	1923	1966	1981	1954	1988	1986	1962	1930	1930	1925

SUMMARY STATISTICS

FOR 1996 WATER YEAR

WATER YEARS 1923 - 1996

ANNUAL TOTAL	800308	
ANNUAL MEAN	2187	1766
HIGHEST ANNUAL MEAN		3018
LOWEST ANNUAL MEAN		824
HIGHEST DAILY MEAN	20000	47200
LOWEST DAILY MEAN	90	.50
ANNUAL SEVEN-DAY MINIMUM	158	5.4
INSTANTANEOUS PEAK FLOW	21600	56100
INSTANTANEOUS PEAK STAGE	27.73	45.91
INSTANTANEOUS LOW FLOW		.20
ANNUAL RUNOFF (CFSM)	2.28	1.84
ANNUAL RUNOFF (INCHES)	31.01	24.99
10 PERCENT EXCEEDS	4950	4160
50 PERCENT EXCEEDS	1400	780
90 PERCENT EXCEEDS	293	101

CUMBERLAND RIVER BASIN
03403910 CLEAR FORK AT SAXTON, KY

LOCATION.--Lat 36°38'42", long 84°06'42", Whitley County, Hydrologic Unit 05130101, on right bank at upstream side of bridge on State Highway 1804, at Saxton, 100 ft upstream from Louisville and Nashville Railroad bridge, 150 ft downstream from unnamed stream, 7.2 mi southeast of Williamsburg, and at mile 17.2.

DRAINAGE AREA.--331 mi².

PERIOD OF RECORD.--July 1968 to September 1990, October 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is 921.83 ft above sea level.

REMARKS.--Estimated daily discharges: Feb. 2-7. Records good except for period of estimated record, which is poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	40	205	232	637	525	2140	1110	338	94	1150	78
2	21	48	190	818	540	485	1800	858	287	93	475	65
3	20	255	179	2490	480	434	1300	684	487	136	262	59
4	27	150	211	1240	440	363	1000	557	395	143	183	56
5	427	88	217	789	400	357	893	454	296	102	144	70
6	523	66	208	683	380	1920	736	479	237	83	124	71
7	148	1330	215	1770	400	5410	655	1740	218	73	119	60
8	72	1500	223	1150	811	4070	598	3260	522	70	103	57
9	47	546	260	806	3070	1540	671	1770	5380	85	266	54
10	36	314	314	680	2200	1050	573	1030	6640	104	138	56
11	31	728	262	578	1510	843	522	761	1630	75	100	56
12	28	1210	252	566	1100	724	502	611	1050	64	206	51
13	25	598	223	485	848	629	473	477	1270	60	532	50
14	27	424	233	451	746	549	451	400	2010	160	270	51
15	42	340	261	581	739	564	391	467	1010	238	183	47
16	48	268	466	1150	689	809	400	432	629	209	140	45
17	39	229	522	1640	614	1310	347	341	441	167	117	46
18	29	198	650	1430	578	1130	314	286	386	218	114	52
19	27	176	1260	4290	521	1590	306	246	330	133	94	48
20	27	160	1650	2260	617	1740	506	219	270	140	80	44
21	29	144	982	1240	712	1310	1070	198	232	168	76	42
22	30	129	672	881	672	1030	824	209	199	141	74	42
23	29	127	493	715	625	990	682	179	177	120	65	43
24	29	150	387	1430	553	923	564	159	164	98	76	41
25	29	144	320	1530	450	925	472	173	241	87	205	40
26	28	124	275	1170	403	894	676	474	186	260	159	42
27	32	117	246	3070	377	778	754	920	148	191	254	58
28	76	120	219	2000	582	1850	630	2570	126	130	210	204
29	88	181	173	1290	584	2460	554	1480	114	111	143	427
30	58	217	171	959	---	1490	1020	735	102	114	101	162
31	46	---	192	798	---	1180	---	467	---	234	80	---
TOTAL	2142	10121	12131	39172	22278	39872	21824	23746	25515	4101	6243	2217
MEAN	69.1	337	391	1264	768	1286	727	766	850	132	201	73.9
MAX	523	1500	1650	4290	3070	5410	2140	3260	6640	260	1150	427
MIN	20	40	171	232	377	357	306	159	102	60	65	40
CFSM	.21	1.02	1.18	3.82	2.32	3.89	2.20	2.31	2.57	.40	.61	.22
IN.	.24	1.14	1.36	4.40	2.50	4.48	2.45	2.67	2.87	.46	.70	.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1996, BY WATER YEAR (WY)

MEAN	199	490	672	940	952	1026	799	702	389	207	192	146
MAX	1472	1624	1824	2534	1418	3356	1924	2087	1923	659	557	707
(WY)	1990	1974	1973	1974	1990	1975	1977	1984	1989	1971	1985	1989
MIN	18.7	44.4	53.7	41.0	353	300	147	122	31.1	44.0	40.6	19.3
(WY)	1981	1988	1981	1981	1977	1988	1986	1985	1988	1970	1969	1980

SUMMARY STATISTICS

FOR 1996 WATER YEAR

WATER YEARS 1968 - 1996

ANNUAL TOTAL	209362		
ANNUAL MEAN	572	559	
HIGHEST ANNUAL MEAN		894	1973
LOWEST ANNUAL MEAN		233	1988
HIGHEST DAILY MEAN	6640	19400	May 28 1973
LOWEST DAILY MEAN	20	3.3	Aug 19 1988
ANNUAL SEVEN-DAY MINIMUM	29	6.7	Jul 5 1988
INSTANTANEOUS PEAK FLOW	9370	22800	Apr 5 1977
INSTANTANEOUS PEAK STAGE	25.26	41.51	Apr 5 1977
ANNUAL RUNOFF (CFSM)	1.73	1.69	
ANNUAL RUNOFF (INCHES)	23.53	22.93	
10 PERCENT EXCEEDS	1320	1190	
50 PERCENT EXCEEDS	310	266	
90 PERCENT EXCEEDS	48	40	

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 sea level. See WDR KY-90-1 for history of changes prior to June 26, 1990.

REMARKS.--Estimated daily discharges: Feb. 2-8. Records good except for period of estimated record, which is poor. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	187	445	1180	1120	4210	6090	7890	4820	4440	461	3660	388
2	163	430	1150	2290	3500	4490	8510	4890	2980	467	4260	352
3	141	699	1040	7480	2900	3610	7510	4270	2830	816	2520	321
4	144	1480	1070	8630	2400	2930	6240	3590	2820	1740	1790	315
5	419	1200	1200	5840	2000	2490	5260	2970	2390	1150	1350	481
6	1900	877	1190	4010	1600	8020	4510	2580	1790	738	1130	629
7	1480	2800	1140	4440	1400	18100	3880	3420	1540	569	972	590
8	913	9270	1120	4620	2600	22600	3440	8870	2120	523	794	498
9	563	7600	1150	3700	9070	20100	3380	16100	8730	783	970	656
10	411	3420	1360	3140	14400	16000	3190	16300	19000	2640	1140	544
11	326	2450	1420	2820	12400	7840	2800	10600	11700	1780	1360	439
12	274	4580	1350	2660	7780	4900	2510	5100	5360	968	990	378
13	248	4700	1240	2510	5570	4190	2330	3790	4740	733	3340	401
14	245	3210	1200	2350	4450	3700	2240	3110	5610	647	3740	494
15	236	2400	1210	2650	4130	3690	2130	2670	4180	946	2380	486
16	338	1940	1390	4540	4570	4900	2230	2870	2910	1180	1620	411
17	414	1570	1950	7810	4610	7110	2620	2830	2080	1190	1200	353
18	373	1300	2820	9520	4030	7290	2480	2500	1670	1110	1010	369
19	292	1130	4250	13000	3530	6690	2280	2160	1470	855	893	383
20	250	957	8240	15300	3210	7640	2550	1740	1400	748	740	354
21	243	864	9840	13400	3380	7360	4580	1500	1250	759	615	312
22	242	786	6600	7870	3450	6180	5760	1370	1040	823	559	283
23	239	731	4000	4940	3310	5540	4670	1370	931	806	524	261
24	219	723	2930	5480	3120	5360	3770	1610	833	669	467	257
25	211	733	2350	8630	2750	5400	3170	1230	801	652	495	251
26	201	738	1980	8760	2400	5840	3000	1590	784	895	567	236
27	206	678	1730	9110	2250	5410	3460	3440	692	1200	587	250
28	243	653	1520	12200	3700	5640	3190	7010	608	939	652	458
29	508	674	1300	10600	6630	8760	2850	11600	542	714	653	2870
30	696	997	1140	6890	---	8640	3210	12500	498	617	535	4120
31	560	---	1080	5140	---	7150	---	8710	---	968	453	---
TOTAL	12885	60035	71140	201450	129350	233660	115640	157110	97739	29086	41966	18140
MEAN	416	2001	2295	6498	4460	7537	3855	5068	3258	938	1354	605
MAX	1900	9270	9840	15300	14400	22600	8510	16300	19000	2640	4260	4120
MIN	141	430	1040	1120	1400	2490	2130	1230	498	461	453	236
CFSM	.26	1.25	1.43	4.04	2.78	4.69	2.40	3.15	2.03	.58	.84	.38
IN.	.30	1.39	1.65	4.66	2.99	5.41	2.68	3.64	2.26	.67	.97	.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1996, BY WATER YEAR (WY)

	MEAN	627	1732	3680	4691	5280	6033	4274	2945	1506	950	686	477
MAX	4413	6552	9751	11860	13550	14670	9717	9572	8305	4906	2142	3280	
(WY)	1990	1978	1992	1974	1956	1963	1977	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	

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1951 - 1996

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1951 - 1996
ANNUAL TOTAL	877685	1168201	
ANNUAL MEAN	2405	3192	2729
HIGHEST ANNUAL MEAN			4390
LOWEST ANNUAL MEAN			1159
HIGHEST DAILY MEAN	20600 May 15	22600 Mar 8	47600 Feb 1 1957
LOWEST DAILY MEAN	72 Sep 11	141 Oct 3	6.1 Oct 26 1953
ANNUAL SEVEN-DAY MINIMUM	80 Sep 6	223 Oct 21	6.9 Oct 22 1953
INSTANTANEOUS PEAK FLOW		23200 Mar 8	49700 Jan 31 1957
INSTANTANEOUS PEAK STAGE		22.26 Mar 8	35.03 Apr 7 1977
INSTANTANEOUS LOW FLOW			6.1 Oct 23 1953
ANNUAL RUNOFF (CFSM)	1.50	1.99	1.70
ANNUAL RUNOFF (INCHES)	20.32	27.04	23.07
10 PERCENT EXCEEDS	5470	7850	6570
50 PERCENT EXCEEDS	1170	1990	1200
90 PERCENT EXCEEDS	171	386	164

CUMBERLAND RIVER BASIN

03404900 LYNN CAMP CREEK AT CORBIN, KY

LOCATION.--Lat 36°57'05", long 84°05'37", Whitley County, Hydrologic Unit 05130101, on left bank 40 ft downstream from bridge on State Highway 312, (East Masters Street) at Corbin, 0.8 mi downstream from East Fork Lynn Camp Creek, and at mile 3.9.

DRAINAGE AREA.--53.8 mi².

PERIOD OF RECORD.--Annual maximums, water years 1957-73, October 1973 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,049.00 ft above sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Estimated daily discharges: Jan. 8, 9 and Feb. 2-7. Records good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	20	38	64	89	144	302	88	75	15	237	6.2
2	5.6	280	34	305	78	110	221	83	72	20	59	5.9
3	5.7	242	48	512	70	87	165	71	206	44	34	5.5
4	43	96	143	193	60	71	125	59	106	28	25	6.3
5	368	60	95	125	53	83	119	51	71	20	18	15
6	170	47	73	106	48	944	100	47	51	17	15	11
7	49	1270	62	104	50	1070	89	124	47	15	14	8.8
8	30	676	60	98	398	472	84	1410	83	16	13	7.3
9	22	151	76	90	670	217	86	771	526	92	13	6.9
10	17	96	62	85	257	158	59	201	442	24	11	6.9
11	14	296	49	82	172	134	51	153	155	14	26	6.8
12	11	281	46	89	130	112	47	116	139	11	335	12
13	15	130	45	88	108	97	44	83	103	8.5	163	31
14	79	102	44	102	97	84	42	68	78	7.9	55	17
15	64	77	40	209	159	125	55	142	61	31	33	11
16	32	58	125	348	123	167	88	102	50	24	25	30
17	22	50	94	560	100	330	54	76	44	21	21	100
18	17	45	152	322	91	191	43	56	39	24	17	32
19	15	39	477	1040	80	202	41	45	38	12	14	20
20	21	35	427	323	89	205	141	40	35	11	12	15
21	23	32	178	185	79	186	150	35	31	35	12	13
22	18	29	120	140	69	172	97	35	29	196	10	12
23	13	31	91	117	65	183	77	31	27	37	9.9	11
24	12	39	73	758	57	155	64	27	25	21	15	9.0
25	11	32	61	343	50	154	53	31	25	25	11	8.6
26	11	28	52	206	49	133	89	187	24	52	8.9	6.9
27	53	27	48	323	111	108	74	241	22	24	29	14
28	71	26	41	187	507	232	54	532	20	16	26	109
29	38	33	36	151	219	299	46	546	19	15	13	89
30	28	38	34	125	---	215	140	226	17	44	9.7	32
31	23	---	39	112	---	200	---	105	---	401	7.4	---
TOTAL	1304.5	4366	2963	7492	4128	7040	2800	5782	2660	1321.4	1291.9	659.1
MEAN	42.1	146	95.6	242	142	227	93.3	187	88.7	42.6	41.7	22.0
MAX	368	1270	477	1040	670	1070	302	1410	526	401	335	109
MIN	3.2	20	34	64	48	71	41	27	17	7.9	7.4	5.5
CFSM	.78	2.71	1.78	4.49	2.65	4.22	1.73	3.47	1.65	.79	.77	.41
IN.	.90	3.02	2.05	5.18	2.85	4.87	1.94	4.00	1.84	.91	.89	.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1996, BY WATER YEAR (WY)

MEAN	33.6	88.1	123	157	162	160	105	97.1	51.1	38.1	26.6	30.9
MAX	133	267	378	372	326	458	242	387	171	110	78.4	100
(WY)	1990	1974	1991	1974	1994	1975	1994	1983	1989	1978	1979	1982
MIN	1.35	10.8	10.4	5.13	56.9	41.9	16.5	9.47	2.38	2.11	2.50	1.89
(WY)	1981	1979	1981	1981	1977	1988	1986	1986	1988	1975	1976	1983

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1967 - 1996	
ANNUAL TOTAL	34616.94		41807.9			
ANNUAL MEAN	94.8		114		89.1	
HIGHEST ANNUAL MEAN					141	
LOWEST ANNUAL MEAN					36.5	
HIGHEST DAILY MEAN	1360	May 14	1410	May 8	4150	May 7 1984
LOWEST DAILY MEAN	.74	Aug 25	3.2	Oct 1	.02	Jun 24 1988
ANNUAL SEVEN-DAY MINIMUM	1.3	Aug 31	7.7	Aug 29	.02	Jun 24 1988
INSTANTANEOUS PEAK FLOW			2480	May 8	9000	Jan 29 1957
INSTANTANEOUS PEAK STAGE			9.05	May 8	22.50	Jan 29 1957
INSTANTANEOUS LOW FLOW					.02	Jun 24 1988
ANNUAL RUNOFF (CFSM)	1.76		2.12		1.66	
ANNUAL RUNOFF (INCHES)	23.94		28.91		22.49	
10 PERCENT EXCEEDS	205		246		198	
50 PERCENT EXCEEDS	43		58		37	
90 PERCENT EXCEEDS	4.1		12		3.6	

CUMBERLAND RIVER BASIN

03406500 ROCKCASTLE RIVER AT BILLOWS, KY

LOCATION.--Lat 37°10'16", long 84°17'46", Laurel County, Hydrologic Unit 05130102, on left bank 200 ft upstream from bridge on State Highway 80 at Billows, 0.9 mi upstream from Pine Creek, 1.1 mi downstream from Hawk Creek, 13 mi west of London, and at mile 24.4.

DRAINAGE AREA.--604 mi²

PERIOD OF RECORD.--July 1936 to current year.

REVISED RECORDS.--WSP 1436: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 802.90 ft above sea level. Prior to Nov. 19, 1940, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Feb. 2-7. Records good except for period of estimated record, which is poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	156	186	281	1110	1060	1680	1630	1260	101	165	95
2	24	138	183	623	870	981	1930	1390	927	92	242	73
3	23	133	185	3520	680	850	1710	1290	1550	122	167	61
4	40	209	221	2560	590	701	1470	1090	1690	174	123	52
5	418	188	368	1570	540	640	1350	913	1190	171	99	47
6	1990	153	339	1170	500	2590	1160	853	838	115	81	43
7	668	883	301	1040	490	7190	1020	827	654	90	67	66
8	370	3440	272	862	598	5940	904	1020	796	78	58	114
9	239	1280	260	706	3030	2890	857	1170	1590	70	53	74
10	172	750	245	717	2640	1950	758	988	3080	65	49	67
11	134	743	220	652	1880	1550	658	836	1970	74	54	62
12	105	2000	194	704	1450	1320	601	761	5590	66	122	54
13	85	1240	197	739	1170	1140	573	639	5300	55	856	56
14	77	852	204	754	1020	995	653	532	2540	64	517	288
15	78	651	209	1400	983	938	760	581	1560	933	305	183
16	79	513	208	2380	938	1070	2380	1120	1050	2810	214	216
17	105	419	215	4940	809	2170	1990	862	758	685	255	2030
18	84	356	252	5390	740	2130	1510	712	587	392	553	1060
19	68	312	414	11100	691	1830	1270	578	501	274	471	600
20	61	272	1260	7770	779	1870	1740	473	411	2390	272	404
21	60	244	1140	2860	1110	1680	4400	396	343	1520	184	279
22	58	222	859	1950	1050	1590	2790	338	286	640	144	213
23	58	205	678	1530	999	1850	2180	312	244	432	118	178
24	61	204	560	5160	907	1990	2180	258	222	301	98	150
25	60	214	472	6140	761	1950	1620	222	233	218	126	120
26	54	202	412	2800	686	1790	1490	452	233	230	192	100
27	80	184	364	3950	649	1420	1520	3210	208	273	142	94
28	222	179	331	3670	913	1360	1220	12100	158	223	199	189
29	379	181	288	2380	1280	2130	1090	11600	131	170	323	1440
30	258	183	259	1780	---	2210	1360	4920	113	152	186	863
31	192	---	248	1400	---	1820	---	2020	---	173	126	---
TOTAL	6326	16706	11544	82498	29863	59595	44824	54093	36013	13153	6561	9271
MEAN	204	557	372	2661	1030	1922	1494	1745	1200	424	212	309
MAX	1990	3440	1260	11100	3030	7190	4400	12100	5590	2810	856	2030
MIN	23	133	183	281	490	640	573	222	113	55	49	43
CFSM	.34	.92	.62	4.41	1.70	3.18	2.47	2.89	1.99	.70	.35	.51
IN.	.39	1.03	.71	5.08	1.84	3.67	2.76	3.33	2.22	.81	.40	.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1996, BY WATER YEAR (WY)

MEAN	199	573	1278	1695	1937	1995	1473	977	529	359	204	158
MAX	2887	2374	5279	5990	5236	5860	4051	4207	2861	1830	1263	1052
(WY)	1990	1987	1991	1937	1956	1975	1972	1983	1947	1941	1977	1974
MIN	3.18	11.5	16.5	56.9	208	507	188	115	37.9	10.8	10.1	4.95
(WY)	1954	1954	1954	1981	1941	1983	1986	1941	1988	1944	1957	1936

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1936 - 1996	
ANNUAL TOTAL	348745		370447			
ANNUAL MEAN	955		1012		944	
HIGHEST ANNUAL MEAN					1575	
LOWEST ANNUAL MEAN					345	
HIGHEST DAILY MEAN	24200	May 19	12100	May 28	46200	Dec 9 1978
LOWEST DAILY MEAN	18	Aug 31	23	Oct 3	.90	Sep 9 1957
ANNUAL SEVEN-DAY MINIMUM	20	Sep 7	59	Oct 20	1.4	Sep 11 1964
INSTANTANEOUS PEAK FLOW			15700	May 28	50000	Dec 9 1978
INSTANTANEOUS PEAK STAGE			24.15	May 28	47.17	Dec 9 1978
INSTANTANEOUS LOW FLOW					.80	Sep 9 1957
ANNUAL RUNOFF (CFSM)	1.58		1.68		1.56	
ANNUAL RUNOFF (INCHES)	21.48		22.82		21.24	
10 PERCENT EXCEEDS	2030		2180		2150	
50 PERCENT EXCEEDS	351		579		328	
90 PERCENT EXCEEDS	37		78		24	

CUMBERLAND RIVER BASIN

03410500 SOUTH FORK CUMBERLAND RIVER NEAR STEARNS, KY

LOCATION.--Lat 36°37'37", long 84°32'00", McCreary County, Hydrologic Unit 05130104, on right bank, 400 ft upstream from Salt Branch, 1,000 ft downstream from Bear Creek, 5.5 mi southwest of Stearns, and at mile 49.6.

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 sea level; prior to Oct. 1, 1980 at site 1,000 ft upstream at datum 0.98 ft higher.

REMARKS.--Estimated daily discharges: Dec. 30 to Jan. 2, Feb. 2-7, Feb. 22 to Mar. 11, and Sept. 5-9. Records good except for periods of estimated record, which are poor.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	216	357	750	780	2130	2200	6240	4060	1080	199	4820	181
2	94	541	724	2100	1680	1800	6130	2930	817	176	2580	156
3	87	2370	702	9900	1360	1600	4380	2210	750	183	1200	143
4	116	1870	1220	5570	1180	1400	3300	1740	799	201	736	153
5	2350	1130	1920	3440	1090	1300	2710	1420	667	216	508	300
6	6800	823	1610	2810	1050	5000	2250	1640	532	167	403	390
7	1830	8780	1400	9250	1100	17000	1920	8170	455	148	333	320
8	904	14000	1360	7060	1340	14000	1700	10900	725	132	282	300
9	566	4470	1520	4050	9370	7000	1810	5110	5510	124	287	400
10	404	2550	2280	3090	8950	4200	1750	3200	12400	115	518	368
11	314	2210	1910	2500	5560	3000	1540	2330	4460	109	403	282
12	260	7100	1590	2320	4200	2320	1430	1880	3020	116	501	248
13	224	3860	1350	2170	3130	2030	1320	1480	2710	119	2380	193
14	229	2560	1240	1940	2590	1770	1250	1200	3080	131	1480	162
15	264	2020	1190	2320	2320	1680	1290	1220	2640	404	875	155
16	272	1590	1190	3470	2050	2500	1460	3080	1690	435	597	158
17	299	1310	1500	3890	1750	3910	1410	2240	1270	354	453	141
18	243	1120	2480	3260	1570	3630	1200	1620	1010	277	458	126
19	212	988	5910	9600	1450	3470	1120	1230	954	211	347	159
20	199	877	7850	8070	1470	5230	1700	969	723	312	288	149
21	207	785	4780	4450	2050	4230	5010	787	590	296	253	129
22	202	701	3190	3170	1900	3460	3890	695	493	301	219	126
23	183	652	2350	2510	1800	3400	2810	632	425	239	209	121
24	183	642	1830	4470	1650	3580	2190	523	369	230	186	114
25	171	647	1510	6650	1500	3760	1760	440	363	214	353	111
26	161	595	1280	4300	1400	3590	2020	767	392	203	348	113
27	183	557	1120	6840	1300	2920	2830	1370	381	232	325	99
28	369	534	982	6840	1900	3730	2250	5180	297	307	251	188
29	607	566	880	4280	2800	8680	1890	5400	243	228	220	2410
30	554	692	800	3170	---	5690	2250	2550	221	289	192	1430
31	429	---	740	2570	---	4120	---	1560	---	1050	218	---
TOTAL	19132	66897	59158	136840	71640	132200	72810	78533	49066	7718	22223	9325
MEAN	617	2230	1908	4414	2470	4265	2427	2533	1636	249	717	311
MAX	6800	14000	7850	9900	9370	17000	6240	10900	12400	1050	4820	2410
MIN	87	357	702	780	1050	1300	1120	440	221	109	186	99
CFSM	.65	2.34	2.00	4.63	2.59	4.47	2.54	2.66	1.71	.26	.75	.33
IN.	.75	2.61	2.31	5.34	2.79	5.15	2.84	3.06	1.91	.30	.87	.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1996, BY WATER YEAR (WY)

	MEAN	405	1277	2667	3338	3564	3674	2531	1713	880	601	410	371
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	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR			FOR 1996 WATER YEAR			WATER YEARS 1943 - 1996		
ANNUAL TOTAL	550708			725542					
ANNUAL MEAN	1509			1982			1778		
HIGHEST ANNUAL MEAN							3023		
LOWEST ANNUAL MEAN							810		
HIGHEST DAILY MEAN	25100			17000			80200		
LOWEST DAILY MEAN	31			87			11		
ANNUAL SEVEN-DAY MINIMUM	37			116			12		
INSTANTANEOUS PEAK FLOW				a			93200		
INSTANTANEOUS PEAK STAGE				a			46.29		
INSTANTANEOUS LOW FLOW							11		
ANNUAL RUNOFF (CFSM)	1.58			2.08			1.86		
ANNUAL RUNOFF (INCHES)	21.47			28.29			25.33		
10 PERCENT EXCEEDS	3450			4790			4070		
50 PERCENT EXCEEDS	724			1270			720		
90 PERCENT EXCEEDS	80			183			84		

a unknown

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.

GAGE.--Water-stage recorder. Datum of gage is 804.72 ft above sea level.

REMARKS.--No estimated daily discharges. Records good.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	4.4	11	21	52	125	151	78	20	6.6	59	4.9
2	1.6	9.6	11	296	44	89	143	65	17	6.3	22	4.9
3	2.0	37	11	276	37	65	118	55	16	6.3	14	5.3
4	6.1	18	15	133	31	52	98	45	16	5.7	11	5.3
5	172	12	18	88	26	54	82	35	14	5.3	8.4	5.0
6	54	9.2	15	69	25	970	70	88	12	4.9	7.5	4.9
7	15	1050	14	61	24	1030	62	485	11	4.7	6.6	4.5
8	8.6	222	13	50	185	330	55	260	32	3.9	99	4.4
9	5.8	82	13	45	249	173	55	133	167	12	196	4.4
10	4.7	49	15	44	146	123	48	88	149	5.2	69	4.4
11	3.5	90	15	45	104	95	41	64	75	3.9	41	5.8
12	2.8	92	14	61	73	75	39	51	54	3.9	48	6.0
13	2.8	55	13	64	59	62	36	40	119	3.9	43	39
14	2.8	37	13	97	56	51	33	32	157	3.5	28	9.4
15	2.8	28	12	241	56	93	44	32	73	4.6	20	6.1
16	2.8	21	19	229	52	116	84	27	49	5.6	16	11
17	2.3	18	26	182	43	168	52	23	35	4.7	13	32
18	2.3	16	122	132	40	109	44	19	27	4.6	12	13
19	2.3	14	188	459	36	116	41	17	22	3.4	11	9.0
20	2.7	13	174	184	37	125	218	16	19	40	9.5	7.1
21	2.8	12	101	120	39	107	186	13	16	11	8.4	6.2
22	2.9	11	68	84	35	110	113	13	14	6.4	7.6	6.1
23	3.2	10	49	68	32	135	100	11	12	5.2	7.2	5.4
24	3.3	10	37	305	29	118	85	10	11	3.9	6.7	5.2
25	2.5	9.6	30	176	25	112	72	9.4	11	5.7	6.2	5.2
26	2.5	8.9	26	127	25	97	109	12	9.6	9.6	6.2	4.9
27	25	8.9	23	161	97	79	88	43	8.4	5.7	6.1	7.1
28	32	8.9	19	121	567	129	70	257	8.2	4.9	5.4	21
29	11	8.9	17	99	193	135	59	86	7.3	4.7	5.3	35
30	7.0	9.6	16	77	---	111	105	42	6.8	4.9	5.2	15
31	5.5	---	16	64	---	100	---	26	---	109	4.9	---
TOTAL	396.2	1975.0	1134	4179	2417	5254	2501	2175.4	1188.3	310.0	803.2	297.5
MEAN	12.8	65.8	36.6	135	83.3	169	83.4	70.2	39.6	10.0	25.9	9.92
MAX	172	1050	188	459	567	1030	218	485	167	109	196	39
MIN	1.6	4.4	11	21	24	51	33	9.4	6.8	3.4	4.9	4.4
CFSM	.29	1.52	.84	3.11	1.92	3.91	1.92	1.62	.91	.23	.60	.23
IN.	.34	1.69	.97	3.58	2.07	4.50	2.14	1.86	1.02	.27	.69	.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1996, BY WATER YEAR (WY)

	MEAN	24.3	35.2	105	120	117	132	116	59.0	40.9	17.6	18.6	16.8
MAX	281	109	459	265	225	479	234	215	193	101	124	106	
(WY)	1990	1980	1991	1974	1991	1975	1977	1983	1981	1971	1971	1982	
MIN	1.72	3.47	2.41	2.36	28.1	24.0	21.4	16.6	4.83	3.13	1.89	1.17	
(WY)	1981	1972	1981	1981	1981	1981	1983	1995	1982	1980	1980	1980	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR				FOR 1996 WATER YEAR				WATER YEARS 1969 - 1996			
ANNUAL TOTAL	16839.2				22630.6							
ANNUAL MEAN	46.1				61.8				66.8			
HIGHEST ANNUAL MEAN									103			
LOWEST ANNUAL MEAN									32.5			
HIGHEST DAILY MEAN	1050 Nov 7				1050 Nov 7				4280 Oct 17 1989			
LOWEST DAILY MEAN	1.2 Sep 6				1.6 Oct 1				.50 Oct 2 1968			
ANNUAL SEVEN-DAY MINIMUM	1.4 Aug 31				2.6 Oct 14				.95 Sep 4 1980			
INSTANTANEOUS PEAK FLOW					2030 Nov 7				9300 Oct 17 1989			
INSTANTANEOUS PEAK STAGE					5.88 Nov 7				8.37 Oct 17 1989			
INSTANTANEOUS LOW FLOW									.50 Oct 2 1968			
ANNUAL RUNOFF (CFSM)	1.06				1.42				1.54			
ANNUAL RUNOFF (INCHES)	14.43				19.40				20.90			
10 PERCENT EXCEEDS	93				137				135			
50 PERCENT EXCEEDS	14				26				21			
90 PERCENT EXCEEDS	2.2				4.7				2.7			

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 sea level. Prior to July 31, 1945, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Nov. 1, 2, Dec. 9-12, 16, 28, 19, Jan. 6-9, 19, 20, 24, 25, 28, 31, Feb. 2-5, March 2, 4-8, June 9 and Aug. 6-13. Records good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	35	47	69	376	469	1310	932	313	162	906	75
2	24	44	45	90	333	400	1090	680	318	156	617	70
3	27	30	44	194	297	349	842	559	353	150	497	68
4	30	32	43	300	264	306	711	479	325	137	420	67
5	38	37	44	210	237	289	617	418	289	126	360	66
6	52	36	46	170	217	801	548	603	260	115	324	64
7	50	55	43	140	206	1840	498	1960	247	110	356	74
8	45	215	43	120	200	1330	460	2380	289	109	468	119
9	38	139	40	110	195	883	436	1260	298	122	440	141
10	34	95	36	123	184	711	399	891	454	142	424	381
11	31	114	35	159	169	611	376	728	489	106	327	137
12	30	267	36	528	155	546	357	625	812	97	296	95
13	31	171	36	594	145	496	350	542	768	90	294	80
14	31	117	33	487	140	450	446	473	609	87	275	72
15	29	97	36	477	134	414	459	1730	480	117	242	66
16	29	84	62	433	126	389	401	1150	708	143	215	74
17	27	76	67	380	118	402	358	750	509	104	194	134
18	25	69	99	395	112	384	330	614	425	89	174	106
19	27	62	182	743	172	876	311	528	379	82	158	87
20	32	57	176	618	1500	1410	432	469	436	251	147	73
21	32	54	151	474	1330	1110	717	419	414	401	146	93
22	43	55	128	404	824	1110	547	380	312	375	139	208
23	44	55	113	482	654	1140	470	349	277	235	127	151
24	37	52	100	2330	543	1030	446	323	250	189	118	112
25	33	68	93	1560	452	1050	402	299	233	155	109	94
26	33	62	86	982	400	1140	375	282	252	132	101	83
27	40	57	81	788	371	820	343	413	208	119	95	2030
28	96	51	74	644	609	703	311	774	193	116	91	2240
29	65	48	72	553	614	623	804	529	176	251	86	1210
30	40	47	69	487	---	555	1520	411	162	527	82	748
31	34	---	69	426	---	689	---	351	---	1660	78	---
TOTAL	1149	2381	2229	15470	11077	23326	16666	22301	11238	6655	8306	9018
MEAN	37.1	79.4	71.9	499	382	752	556	719	375	215	268	301
MAX	96	267	182	2330	1500	1840	1520	2380	812	1660	906	2240
MIN	22	30	33	69	112	289	311	282	162	82	78	64
CFSM	.15	.33	.29	2.05	1.57	3.08	2.28	2.95	1.54	.88	1.10	1.23
IN.	.18	.36	.34	2.36	1.69	3.56	2.54	3.40	1.71	1.01	1.27	1.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1996, BY WATER YEAR (WY)

	MEAN	205	451	562	695	739	557	415	200	147	94.6	98.7
MAX	200	1677	1985	2168	2130	2432	1924	1875	583	790	381	925
(WY)	1985	1958	1979	1950	1989	1975	1979	1984	1981	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

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1940 - 1996	
ANNUAL TOTAL	98880		129816			
ANNUAL MEAN	271		355		350	
HIGHEST ANNUAL MEAN					738	
LOWEST ANNUAL MEAN					58.9	
HIGHEST DAILY MEAN	5630	May 19	2380	May 8	12100	May 7 1984
LOWEST DAILY MEAN	20	Sep 25	22	Oct 1	3.6	Oct 3 1941
ANNUAL SEVEN-DAY MINIMUM	22	Sep 24	28	Oct 13	7.0	Oct 24 1940
INSTANTANEOUS PEAK FLOW			3880	Jul 31	20200	May 7 1984
INSTANTANEOUS PEAK STAGE			11.36	Jul 31	22.45	May 7 1984
INSTANTANEOUS LOW FLOW					1.0	Oct 3 1941
ANNUAL RUNOFF (CFSM)	1.11		1.45		1.44	
ANNUAL RUNOFF (INCHES)	15.08		19.79		19.51	
10 PERCENT EXCEEDS	619		802		827	
50 PERCENT EXCEEDS	117		216		137	
90 PERCENT EXCEEDS	31		42		28	

CUMBERLAND RIVER BASIN

03438190 BARKLEY-KENTUCKY CANAL NEAR GRAND RIVERS, KY

LOCATION.--Lat 36°59'23", long 88°13'17", Lyon County, Hydrologic Unit 05130205, on north pier of bridge on State Highway 453, 1.1 mi southeast of Grand Rivers, and 2.9 mi upstream from Kentucky Dam.

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Deflection-meter recorder and water-stage recorder. Prior to Apr. 8, 1967, water-stage recorders. Datum of stage gages is 299.69 ft above sea level. Prior to Apr. 20, 1990 datum of gages was considered to be 300.00 ft above sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Estimated daily discharges: Feb. 4-6 and June 5-10. Records fair except for periods of estimated record, which are poor. Figures of discharge represent net flow between Lake Barkley in Cumberland River Basin and Kentucky Lake in Tennessee River Basin. Canal initially opened on June 13, 1966. Discharges shown as minus are flow from Kentucky Lake to Lake Barkley.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-9390	-26700	-16200	-24800	-12000	-14100	-9720	-4020	-24700	-2310	-6080	-784
2	-2220	-24700	-19000	-21900	-182	-19200	-14800	-13100	-28300	-7540	-6990	-10500
3	-13500	-24900	-4260	-20100	-6570	-23700	1520	8630	-22000	-1330	-15500	-8780
4	-7650	-20100	-9650	-14100	-7840	-28900	6000	14700	-8320	3600	-14100	-7930
5	-17400	-17900	-15200	-8770	-2600	-31000	3010	23600	-5420	7440	-21000	-17300
6	-2390	-20200	-6570	-5900	2510	-16100	2140	11100	-7460	9150	-26200	-26500
7	-15500	-17300	-9840	-11400	7380	2930	369	-3410	-12400	-448	-25100	-14400
8	-35900	-7160	-13200	-10800	8680	19200	-145	10500	-10400	-3630	-18700	-4460
9	-43700	-1130	-17100	-3320	2650	23100	-1460	11200	-8880	-4620	-13900	-7470
10	-38800	-21900	-24400	-8390	-3300	17300	-4530	1790	-6850	-4580	-6120	-14300
11	-35800	-22900	-28000	-8320	411	4790	968	281	-354	-1030	-10800	-16400
12	-33600	-19800	-29500	-2420	-1120	2710	8820	431	-105	1910	-8190	-12100
13	-35100	-7500	-32100	6190	1390	3720	16300	3740	-1690	3460	-26200	-13300
14	-25700	-20600	-32100	11700	4880	1330	15800	9880	-8580	2930	-9870	-5010
15	-21700	-25200	-27700	10400	-7280	-12400	12900	29000	-11000	1540	8460	7390
16	-21200	-24700	-27300	10000	-13200	-19500	7580	50600	-6320	-3340	339	-774
17	-24000	-20500	-28400	8850	1890	-18500	-2350	45700	-17900	-5670	-18100	-6930
18	-22000	-14000	-29200	299	2420	-16100	4700	38000	-20600	-7310	-16500	-13200
19	-21400	-19300	-25400	4480	462	-19600	8330	20000	-19200	-4160	-4180	-18600
20	-17800	-22900	-29200	12500	5120	-7550	10500	-3080	-14300	10100	-7940	-18200
21	-21600	-20400	-28800	12900	15900	6000	13100	-19900	-15000	8190	-9760	-4850
22	-4770	-25600	-29100	10500	9980	8790	-13200	-23300	97	11100	-23200	2730
23	-3350	-21100	-28600	6080	-1270	12400	-15700	-27800	11000	-3230	-21800	-6450
24	-6850	-20700	-28700	12600	-9320	8620	-17800	-23500	6450	-17700	-7350	-28100
25	-11000	-17500	-28900	16800	-8320	11900	-12200	-20200	-4900	-15800	-542	-30300
26	-15900	-15400	-33700	11800	-14100	13500	-13200	-14800	-5340	-11200	-8290	-30500
27	-8190	-12500	-30400	1560	-22600	14300	-18700	-19300	-6400	-7.6	-19800	-17900
28	-8290	-18100	-31800	-8690	-18200	8930	-11300	-10800	-8170	-524	-19300	742
29	-8060	-17400	-32100	-20200	-12300	4120	-1200	-6510	-2460	-3560	-21900	-2160
30	-9000	-16000	-32400	-25600	---	3480	-14500	-19300	9520	-4270	-15400	-18700
31	-22300	---	-26800	-25600	---	-2320	---	-21300	---	4490	873	---
TOTAL	-564060	-564090	-755620	-83651	-76529	-61850	-38768	48832	-249982	-38349.6	-393140	-345036
MEAN	-18200	-18800	-24370	-2698	-2639	-1995	-1292	1575	-8333	-1237	-12680	-11500
MAX	-2220	-1130	-4260	16800	15900	23100	16300	50600	11000	11100	8460	7390
MIN	-43700	-26700	-33700	-25600	-22600	-31000	-18700	-27800	-28300	-17700	-26200	-30500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1996, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1966	-8393	4584	1982	-24200	1976
1967	-10970	3266	1982	-30180	1993
1968	-10640	6337	1979	-25820	1972
1969	-7474	19250	1991	-23210	1984
1970	-8521	3980	1989	-24390	1987
1971	-6504	8049	1989	-21560	1990
1972	-1208	9814	1972	-10380	1991
1973	-5278	11560	1995	-24140	1991
1974	-5450	6507	1981	-19220	1991
1975	-7233	4620	1966	-18440	1975
1976	-8024	5562	1966	-16570	1979
1977	-6941	1523	1966	-22440	1989

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1966 - 1996
ANNUAL TOTAL	-3105309	-3122243.6	
ANNUAL MEAN	-8508	-8531	-7337
HIGHEST ANNUAL MEAN			-849
LOWEST ANNUAL MEAN			-13190
HIGHEST DAILY MEAN	33600	May 29	68300
LOWEST DAILY MEAN	-43700	Oct 9	-48000
ANNUAL SEVEN-DAY MINIMUM	-35500	Oct 8	-39200
INSTANTANEOUS PEAK STAGE		63.07	70.34
10 PERCENT EXCEEDS	6910	9910	6380
50 PERCENT EXCEEDS	-6340	-8320	-7000
90 PERCENT EXCEEDS	-27500	-26200	-22700

CUMBERLAND RIVER BASIN

03438220 CUMBERLAND RIVER NEAR GRAND RIVERS, KY

LOCATION.--Lat 37°01'18", long 88°13'16", Lyon County, Hydrologic Unit 05130205, on right bank in powerhouse at Barkley Dam, 0.7 mi upstream from bridge on U.S. Highway 62 and 641, 1.5 mi northeast of Grand Rivers, and at mile 30.6.

DRAINAGE AREA.--17,598 mi².

PERIOD OF RECORD.--February 1939 to current year (fragmentary prior to April 1940). Monthly discharge only for some periods, published in WSP 1306. Prior to October 1964, published as "at Smithland."

REVISED RECORD.--WSP 1173: 1974(M). WSP 1336: 1940-43.

GAGE.--Water-stage recorder. Datum of gage is 300.00 ft above sea level (levels by U.S. Army Corps of Engineers). Auxiliary water-stage recorder at Dycusburg at mile 19.6. See WDR KY-88-1 for history of changes prior to Dec. 28, 1965.

REMARKS.--No estimated daily discharges. Records fair except those below 10,000 ft³/s, which are poor. Regulation of navigation dams on Cumberland River, and by Lake Cumberland, Dale Hollow Reservoir, Great Falls Lake, Center Hill Reservoir, Old Hickory Lake, J. Percy Priest Reservoir, and Lake Barkley. Barkley-Kentucky Canal (station 03438190) diverts water from or to Kentucky Lake in Tennessee River Basin and is included in this record since October 1965.

COOPERATION.--Discharges for days of negative fall or excessive fall were provided by U.S. Army Corps of Engineers.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January to February 1937 reached a stage of 51.1 ft, former site and datum, 60.3 ft, present site and datum (from U.S. Army Corps of Engineers river profile).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20100	38000	33700	59200	39900	46900	52700	45800	57800	17000	44900	17700
2	14600	38400	31900	40400	42400	52700	52200	39700	58000	16500	48700	19100
3	14700	38500	20100	34100	41400	52800	47300	16000	37000	19600	49400	18000
4	15500	38400	31700	28800	34500	52300	47000	6100	18000	5980	49200	23200
5	35500	38200	19900	40500	35400	51800	49300	6100	19000	6020	49800	37800
6	49000	38700	19900	42200	35000	53000	49500	16500	22300	6580	48200	42500
7	59200	48500	19900	42600	37900	52900	48200	49000	31700	12400	48700	25200
8	57900	61500	26400	41700	39900	52100	44600	54000	31400	15900	37000	28400
9	58600	61700	34300	41900	41000	51600	38600	63300	30700	15900	37900	29900
10	58600	61200	36900	43100	41000	51500	40000	61700	29400	19000	33100	31000
11	58400	61100	37700	42700	41000	51700	35500	54100	29600	17800	48600	30100
12	61600	60900	43700	38000	30200	51400	18500	43800	31100	18100	36300	30400
13	53400	61400	48200	42800	23700	50300	16700	25000	40000	18200	48700	30100
14	41300	60600	48000	43100	23400	49100	18700	6030	51000	18300	16800	18100
15	35200	59900	44000	43500	27100	48000	16400	6000	48900	17800	14700	17700
16	34400	59900	43600	41100	31200	43500	18000	6020	50000	15600	28600	21200
17	36000	59800	43900	43000	34800	51100	18500	6160	51100	19000	49000	27900
18	36500	59700	43800	42000	40500	52600	4830	6130	51100	18900	50700	34300
19	36400	59700	44000	41400	41400	53200	6160	18300	51600	19600	26400	25700
20	34800	59800	56500	39600	41700	53000	6300	31500	51200	9750	15700	30400
21	35200	51600	55700	38200	41800	52800	6550	46900	52300	9820	28000	15400
22	19700	45000	55200	37400	41300	52300	47900	46400	31500	16800	47200	14300
23	19800	44600	54600	36700	41000	52100	51700	45700	17900	19300	47900	29100
24	20900	44500	54400	38100	41000	51300	51300	46700	20800	38000	34100	50500
25	21400	36300	54600	37400	40400	50300	50700	47900	25100	39300	34000	39900
26	21400	35600	56200	52600	40200	50200	51300	48800	25300	40900	34600	38800
27	22000	37200	58700	75500	36100	50600	51600	49800	23800	22900	35300	38300
28	30600	41400	58800	77600	39100	50000	51600	52400	23300	24900	34600	38800
29	28100	18700	57000	77900	42200	50400	45300	60200	13600	24900	35600	49200
30	30200	27500	57200	81200	---	51200	44300	60300	11600	25400	27700	51000
31	37300	---	57100	59900	---	51500	---	59800	---	26400	12700	---
TOTAL	1098300	1448300	1347600	1444200	1086500	1584200	1081240	1126140	1036100	596550	1154100	904000
MEAN	35430	48280	43470	46590	37470	51100	36040	36330	34540	19240	37230	30130
MAX	61600	61700	58800	81200	42400	53200	52700	63300	58000	40900	50700	51000
MIN	14600	18700	19900	28800	23400	43500	4830	6000	11600	5980	12700	14300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1996, BY WATER YEAR (WY)

	MEAN	21970	31280	49200	55050	55740	53570	40350	38300	28650	25300	25310	21430
MAX	55260	62960	97370	114400	104700	118300	120900	99410	63640	57470	39380	53030	
(WY)	1990	1980	1973	1974	1994	1975	1994	1984	1973	1989	1979	1979	
MIN	6085	7718	8592	6245	23010	14450	4744	4965	6139	5759	7780	6398	
(WY)	1966	1966	1981	1981	1977	1981	1986	1988	1988	1988	1988	1988	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1966 - 1996
ANNUAL TOTAL	11718650	13907230	
ANNUAL MEAN	32110	38000	37120
HIGHEST ANNUAL MEAN			56740
LOWEST ANNUAL MEAN			14900
HIGHEST DAILY MEAN	107000	May 21	202000
LOWEST DAILY MEAN	1290	May 29	50
ANNUAL SEVEN-DAY MINIMUM	4940	Apr 15	3090
INSTANTANEOUS PEAK FLOW			209000
INSTANTANEOUS PEAK STAGE		b34.91	49.04
10 PERCENT EXCEEDS	59300	57000	66100
50 PERCENT EXCEEDS	30600	39900	31900
90 PERCENT EXCEEDS	8150	16800	8200

b backwater from Ohio River

CUMBERLAND RIVER BASIN

03438220 CUMBERLAND RIVER NEAR GRAND RIVERS, KY--Continued

WATER-QUALITY RECORDS

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	216	207	211	---	---	---	240	212	228	252	230	241
2	223	215	219	---	---	---	244	230	237	241	209	223
3	562	218	301	---	---	---	257	220	234	241	209	220
4	296	277	283	---	---	---	269	236	256	232	216	224
5	289	277	283	---	---	---	246	204	221	264	216	247
6	302	280	292	---	---	---	240	212	224	270	240	260
7	303	284	295	---	---	---	247	224	240	262	237	253
8	286	277	281	---	---	---	255	216	227	269	241	254
9	278	265	270	---	---	---	252	212	228	275	262	269
10	271	265	267	---	---	---	226	213	219	273	260	267
11	278	269	275	---	---	---	221	213	217	271	246	262
12	282	276	279	---	---	---	224	206	215	273	254	266
13	281	267	276	---	---	---	233	213	221	271	265	269
14	273	262	268	---	---	---	237	215	226	269	263	266
15	271	263	266	---	---	---	232	206	219	268	263	265
16	272	268	270	---	---	---	234	216	227	270	266	268
17	268	210	224	---	---	---	233	213	223	274	268	271
18	212	207	209	---	---	---	228	213	221	274	267	271
19	219	209	211	---	---	---	232	205	218	272	268	270
20	218	204	210	---	---	---	242	219	230	273	268	270
21	215	202	207	---	---	---	247	218	236	272	266	269
22	214	206	211	---	---	---	249	228	240	271	268	270
23	229	212	222	244	228	233	250	222	237	273	268	270
24	230	219	226	247	236	240	244	232	239	273	267	270
25	228	211	219	250	226	233	244	220	233	269	262	266
26	266	209	231	254	235	243	241	225	233	267	263	265
27	---	---	---	266	236	246	250	221	234	268	265	266
28	---	---	---	266	231	241	255	226	237	268	263	266
29	---	---	---	232	208	218	247	224	239	263	253	257
30	---	---	---	224	210	217	250	224	238	258	246	254
31	---	---	---	---	---	---	252	231	239	255	214	236
MONTH	562	202	250	266	208	234	269	204	230	275	209	259
	FEBRUARY			MARCH			APRIL			MAY		
1	249	216	231	262	245	255	554	456	526	254	231	242
2	259	241	254	256	224	248	470	451	463	255	224	234
3	258	240	250	258	240	250	485	467	477	253	224	245
4	260	243	250	268	243	256	486	480	484	258	250	252
5	267	253	262	268	236	252	489	485	487	542	244	327
6	267	265	266	274	230	256	488	475	480	814	433	649
7	267	264	266	274	271	273	479	333	392	817	529	613
8	267	264	265	276	270	273	343	339	341	621	474	562
9	266	257	264	278	275	277	474	321	357	486	394	413
10	259	245	254	277	266	273	475	331	442	475	375	409
11	261	249	258	267	261	265	336	327	332	475	387	409
12	261	231	250	262	259	261	355	332	341	394	367	374
13	260	254	257	261	258	259	356	333	345	376	352	363
14	260	255	258	262	258	260	513	330	365	542	365	383
15	259	230	252	260	245	254	513	499	505	805	397	564
16	239	212	226	517	242	312	503	494	498	469	273	420
17	259	230	245	367	330	351	497	416	456	277	271	274
18	258	255	257	343	325	334	474	416	440	277	271	275
19	258	253	255	348	300	321	447	314	419	277	220	259
20	261	244	252	354	305	330	505	315	370	252	238	248
21	264	260	261	357	350	353	497	319	361	238	209	218
22	269	262	265	353	343	349	497	419	474	235	216	228
23	269	240	262	345	336	339	438	393	426	224	199	215
24	264	237	252	402	338	352	438	302	388	211	197	204
25	258	232	250	403	366	398	320	296	312	212	202	207
26	247	220	240	367	357	360	432	287	381	217	202	210
27	234	194	214	363	357	361	431	295	339	331	204	261
28	231	194	215	400	360	374	613	237	319	332	209	269
29	254	220	239	372	365	369	840	313	526	335	225	267
30	---	---	---	366	356	362	379	216	302	243	228	236
31	---	---	---	550	356	521	---	---	---	245	232	237
MONTH	269	194	251	550	224	313	840	216	412	817	197	325

CUMBERLAND RIVER BASIN

03438220 CUMBERLAND RIVER NEAR GRAND RIVERS, KY--Continued

WATER-QUALITY RECORDS

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	246	231	240	---	---	---	---	---	---	220	209	215
2	342	227	318	---	---	---	---	---	---	225	205	219
3	345	307	329	---	---	---	---	---	---	208	203	207
4	336	237	289	---	---	---	---	---	---	206	197	202
5	333	239	276	---	---	---	---	---	---	206	197	201
6	336	311	327	---	---	---	---	---	---	209	201	206
7	336	309	321	---	---	---	---	---	---	207	190	196
8	327	215	267	---	---	---	---	---	---	207	193	203
9	337	321	333	---	---	---	---	---	---	215	199	205
10	337	226	260	---	---	---	---	---	---	206	195	200
11	832	230	295	---	---	---	---	---	---	210	197	202
12	750	685	714	---	---	---	---	---	---	205	196	201
13	948	635	728	---	---	---	219	201	211	212	199	205
14	715	578	664	---	---	---	209	186	196	210	200	206
15	594	387	524	---	---	---	221	207	215	219	200	212
16	416	280	348	---	---	---	231	214	221	228	217	223
17	292	239	261	219	207	215	231	208	215	228	212	225
18	439	266	364	220	198	210	222	215	219	216	206	212
19	288	196	266	224	197	210	226	210	217	212	195	202
20	299	190	216	438	208	368	235	223	229	201	193	196
21	223	189	206	681	349	403	230	199	216	205	190	198
22	227	196	211	---	---	---	209	195	202	224	204	211
23	242	205	221	---	---	---	213	197	205	224	212	218
24	382	207	255	---	---	---	220	199	211	216	201	205
25	317	254	287	---	---	---	226	214	220	210	194	202
26	287	183	241	---	---	---	224	208	216	205	188	197
27	231	194	208	---	---	---	208	198	203	216	191	197
28	---	---	---	---	---	---	205	194	198	223	207	216
29	---	---	---	---	---	---	208	194	199	225	219	223
30	---	---	---	---	---	---	211	194	200	225	218	222
31	---	---	---	---	---	---	210	194	206	---	---	---
MONTH	948	183	332	681	197	281	235	186	210	228	188	208
YEAR	948	183	280									

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.0	7.6	---	---	8.2	7.7	8.2	7.8	8.2	8.1	8.3	8.02
2	8.2	7.6	---	---	8.3	8.0	8.2	7.8	8.3	8.1	8.4	8.1
3	8.0	7.5	---	---	8.2	8.1	8.2	7.9	8.3	8.2	8.9	8.2
4	7.7	---	---	---	8.3	8.1	8.2	8.1	8.3	8.2	8.8	8.3
5	---	---	---	---	8.2	7.9	8.2	8.1	8.3	8.2	8.6	8.2
6	6.1	---	---	---	8.2	8.0	8.2	8.1	8.3	8.2	8.2	7.6
7	7.9	6.1	---	---	8.2	8.1	8.2	8.1	8.3	8.0	8.6	8.2
8	7.7	---	---	---	8.2	8.0	8.2	8.1	8.3	8.2	8.7	8.2
9	---	---	---	---	8.1	8.0	8.2	8.1	8.3	8.1	8.7	8.6
10	6.0	---	---	---	8.1	7.9	8.3	8.1	8.4	8.2	8.7	8.2
11	---	---	---	---	8.1	7.8	8.2	8.1	8.4	8.2	8.5	8.0
12	6.4	---	---	---	8.1	7.8	8.2	8.1	8.4	8.2	8.3	7.9
13	7.7	---	---	---	8.1	7.9	8.3	8.1	8.5	8.3	8.6	7.9
14	---	---	---	---	8.1	8.0	8.3	8.1	8.6	8.3	8.7	8.1
15	---	---	---	---	8.1	7.3	8.3	8.1	8.7	8.3	8.4	8.0
16	---	---	---	---	8.1	7.9	8.3	8.2	8.7	8.3	8.2	8.0
17	7.8	6.7	---	---	8.2	8.0	8.3	8.2	8.6	8.4	8.5	8.0
18	---	---	---	---	8.1	7.4	8.3	7.4	8.9	8.5	8.5	8.3
19	---	---	---	---	8.1	7.4	8.3	7.8	8.9	8.4	8.4	8.2
20	7.3	6.9	---	---	8.4	8.0	8.4	8.2	8.6	8.2	8.7	7.9
21	7.3	6.8	---	---	8.2	8.1	8.3	8.2	8.5	8.1	8.8	8.1
22	7.4	7.0	7.9	7.8	8.2	8.1	8.3	8.2	8.6	8.3	8.7	8.3
23	7.6	7.2	7.9	7.7	8.2	8.1	8.3	8.1	8.6	8.1	8.7	8.2
24	7.5	7.2	8.0	7.8	8.3	8.1	8.2	8.1	8.5	8.2	8.7	8.1
25	7.5	7.3	8.0	7.8	8.1	8.0	8.2	8.1	8.4	8.2	8.4	8.0
26	7.4	7.0	8.1	7.9	8.2	8.1	8.3	8.1	8.5	8.0	8.8	8.2
27	---	---	8.1	7.9	8.3	8.0	8.4	8.1	8.2	7.9	8.9	8.2
28	---	---	8.0	7.9	8.3	8.0	8.3	8.1	8.0	7.9	8.8	8.6
29	---	---	8.0	7.6	8.3	8.0	8.2	8.1	8.3	8.0	8.7	8.2
30	---	---	8.1	7.6	8.2	8.0	8.2	8.1	---	---	8.7	8.1
31	---	---	---	---	8.1	7.6	8.2	8.1	---	---	8.7	8.1
MONTH	8.2	6.1	8.1	7.6	8.4	7.3	8.4	7.4	8.9	7.9	8.9	7.6
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.8	8.5	8.9	8.7	8.8	8.6	---	---	---	---	8.1	7.5
2	8.8	8.6	9.1	8.8	8.8	8.5	---	---	---	---	8.1	7.6
3	8.8	8.4	9.0	8.8	8.8	8.5	---	---	---	---	7.9	7.5
4	8.4	8.1	9.2	9.0	8.6	8.5	---	---	---	---	8.0	7.4
5	8.9	8.1	9.2	8.9	9.2	8.5	---	---	---	---	8.2	7.7
6	8.8	8.5	9.3	8.5	9.0	8.5	---	---	---	---	8.3	7.8
7	8.8	8.2	9.4	8.7	8.6	8.5	---	---	---	---	8.2	7.6
8	8.4	8.1	9.2									

CUMBERLAND RIVER BASIN

03438220 CUMBERLAND RIVER NEAR GRAND RIVERS, KY--Continued

WATER-QUALITY RECORDS

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	---	---	---	29.6	29.2	29.4
2	---	---	---	---	---	---	---	---	---	29.4	29.0	29.2
3	---	---	---	---	---	---	---	---	---	29.1	28.6	28.8
4	---	---	---	---	---	---	---	---	---	28.8	28.1	28.5
5	---	---	---	---	---	---	---	---	---	28.9	28.2	28.5
6	---	---	---	---	---	---	---	---	---	29.1	28.2	28.5
7	---	---	---	---	---	---	---	---	---	28.6	28.2	28.4
8	---	---	---	---	---	---	---	---	---	28.3	27.7	28.0
9	---	---	---	---	---	---	---	---	---	27.7	26.6	27.1
10	---	---	---	---	---	---	---	---	---	26.6	26.1	26.3
11	---	---	---	---	---	---	---	---	---	26.2	25.7	25.9
12	---	---	---	---	---	---	---	---	---	26.0	25.4	25.7
13	---	---	---	---	---	---	---	---	---	26.2	25.6	25.8
14	---	---	---	---	---	---	---	---	---	26.3	25.6	25.9
15	---	---	---	---	---	---	---	---	---	26.2	25.8	25.9
16	---	---	---	---	---	---	---	---	---	26.1	25.5	25.8
17	---	---	---	---	---	---	---	---	---	25.8	25.4	25.6
18	---	---	---	---	---	---	---	---	---	25.5	24.9	25.2
19	---	---	---	---	---	---	---	---	---	25.1	24.6	24.8
20	---	---	---	---	---	---	---	---	---	24.9	24.5	24.7
21	---	---	---	---	---	---	---	---	---	24.5	24.1	24.3
22	---	---	---	---	---	---	---	---	---	24.1	22.9	23.3
23	---	---	---	---	---	---	---	---	---	22.9	22.0	22.4
24	---	---	---	---	---	---	---	---	---	22.1	21.5	21.9
25	---	---	---	---	---	---	---	---	---	21.9	21.2	21.6
26	---	---	---	---	---	---	---	---	---	21.7	21.1	21.4
27	---	---	---	---	---	---	---	---	---	22.0	21.2	21.5
28	---	---	---	---	---	---	---	---	---	22.0	21.3	21.6
29	---	---	---	---	---	---	---	---	---	22.2	21.6	21.9
30	---	---	---	---	---	---	---	---	---	22.1	21.4	21.8
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	29.6	21.1	25.3
YEAR	29.6	21.1	25.3									

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	22.1	21.5	21.8	---	---	---	9.2	8.6	8.9	5.5	5.1	5.3
2	21.7	21.4	21.5	---	---	---	9.5	8.7	9.1	5.5	5.3	5.4
3	21.7	21.3	21.5	---	---	---	9.5	9.3	9.4	5.3	4.5	5.0
4	21.6	21.2	21.4	---	---	---	9.6	9.1	9.4	4.9	4.3	4.6
5	21.5	21.0	21.2	---	---	---	9.6	9.3	9.4	5.0	4.7	4.8
6	21.4	20.8	21.0	---	---	---	9.5	8.8	9.1	4.7	4.0	4.4
7	20.9	20.4	20.7	---	---	---	8.8	8.3	8.5	4.0	3.1	3.7
8	21.5	20.6	21.0	---	---	---	8.4	7.4	7.9	3.5	2.4	2.9
9	21.7	20.9	21.3	---	---	---	8.1	7.2	7.6	2.7	2.2	2.5
10	21.9	21.1	21.5	---	---	---	7.2	5.7	6.4	3.1	2.4	2.8
11	22.2	21.4	21.7	---	---	---	6.3	5.5	5.9	3.6	2.9	3.1
12	22.2	21.5	21.9	---	---	---	6.3	6.1	6.2	3.7	3.4	3.6
13	22.2	21.7	21.9	---	---	---	6.7	6.2	6.4	4.4	3.3	3.8
14	22.0	20.9	21.5	---	---	---	7.2	6.5	6.9	4.9	4.2	4.5
15	20.9	20.5	20.7	---	---	---	7.2	6.9	7.0	5.0	4.7	4.8
16	20.6	20.2	20.4	---	---	---	7.2	7.0	7.1	5.7	4.9	5.1
17	20.4	20.0	20.2	---	---	---	7.3	7.0	7.2	7.0	5.6	6.3
18	20.3	19.9	20.1	---	---	---	7.9	7.3	7.5	8.0	7.0	7.4
19	20.2	19.7	19.9	---	---	---	8.1	7.6	7.9	7.1	5.5	6.2
20	20.0	18.9	19.5	---	---	---	7.6	7.0	7.3	5.7	4.7	5.4
21	19.0	18.3	18.7	---	---	---	7.6	6.9	7.2	5.9	5.2	5.5
22	18.3	17.6	18.0	---	---	---	7.4	6.0	6.9	6.3	5.7	5.9
23	17.9	17.0	17.4	10.0	9.6	9.8	6.9	6.4	6.6	6.9	6.2	6.5
24	17.6	17.0	17.3	9.6	9.1	9.4	6.4	5.8	6.0	6.9	6.1	6.6
25	17.3	16.8	17.1	9.5	9.0	9.2	6.0	5.4	5.7	6.3	5.5	6.0
26	17.3	16.9	17.1	9.7	8.9	9.3	5.6	4.7	5.2	6.2	5.7	6.0
27	---	---	---	9.9	9.4	9.6	5.6	4.5	5.2	6.2	4.7	5.6
28	---	---	---	9.7	9.1	9.4	5.2	4.4	4.8	5.6	4.7	5.2
29	---	---	---	9.2	8.9	9.1	5.3	4.5	4.9	6.2	5.4	5.8
30	---	---	---	9.0	8.5	8.8	5.2	4.7	4.9	5.9	4.7	5.4
31	---	---	---	---	---	---	5.2	4.9	5.0	4.8	4.2	4.5
MONTH	22.2	16.8	20.2	10.0	8.5	9.3	9.6	4.4	7.0	8.0	2.2	5.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	4.5	3.7	4.1	9.7	8.9	9.3	10.5	9.8	10.1	15.9	15.6	15.8
2	3.9	2.5	3.2	9.2	8.8	8.9	11.3	10.2	10.7	16.7	15.6	16.1
3	2.5	1.6	2.1	8.9	7.6	8.2	11.7	10.6	11.0	16.9	16.5	16.6
4	2.1	1.4	1.6	8.8	7.5	8.2	11.4	11.2	11.3	17.4	16.8	17.1
5	1.5	.8	1.1	9.2	8.6	8.8	11.4	10.3	10.9	17.7	17.0	17.4
6	1.0	.5	.8	9.2	8.9	9.1	10.8	10.4	10.6	18.3	17.4	18.0
7	2.2	.9	1.5	9.0	7.7	8.3	10.9	10.1	10.4	18.5	18.2	18.3
8	3.4	2.2	2.9	7.7	6.0	6.9	10.1	9.8	9.9	19.4	18.4	18.8
9	4.0	3.3	3.7	6.2	5.5	5.8	10.6	9.7	10.1	20.2	19.2	19.7
10	4.9	3.9	4.3	7.2	6.0	6.5	11.2	10.4	10.7	20.8	20.0	20.4
11	4.9	4.5	4.7	7.7	6.8	7.3	11.9	10.9	11.4	20.8	20.3	20.6
12	4.9	4.4	4.6	8.1	7.4	7.7	12.7	11.3	12.0	20.3	19.9	20.1
13	4.7	4.2	4.4	8.6	7.7	8.1	12.6	12.1	12.3	20.1	19.6	19.8
14	4.9	4.5	4.7	9.2	8.5	8.7	13.0	12.4	12.7	19.7	19.2	19.4
15	4.9	4.7	4.8	9.9	9.1	9.5	13.3	12.6	12.9	19.9	19.2	19.5
16	4.8	4.2	4.4	9.8	9.5	9.7	12.7	12.2	12.5	20.3	19.7	20.0
17	4.8	3.7	4.3	10.2	9.5	9.8	13.7	12.2	12.9	20.9	20.1	20.5
18	4.8	4.3	4.6	10.0	9.8	9.9	14.1	13.1	13.6	21.2	20.8	21.0
19	5.0	4.7	4.8	9.8	8.9	9.4	15.4	13.9	14.4	22.3	21.1	21.9
20	5.7	4.9	5.3	9.1	7.7	8.4	15.5	14.2	14.7	23.3	21.9	22.5
21	6.5	5.7	6.0	7.8	6.8	7.5	16.6	14.3	15.4	23.0	22.6	22.7
22	7.2	6.5	6.7	8.7	7.5	8.0	17.4	15.9	16.5	23.7	22.7	23.1
23	8.4	7.1	7.6	8.7	8.2	8.4	16.3	15.6	16.1	24.0	22.9	23.4
24	8.7	7.7	8.1	9.2	8.1	8.6	16.6	15.7	16.2	24.4	23.4	23.8
25	9.3	8.5	8.8	9.3	8.8	9.0	16.7	16.0	16.4	25.0	23.7	24.3
26	10.0	9.1	9.5	9.3	8.7	9.0	16.7	16.2	16.5	25.1	24.4	24.8
27	10.3	9.2	9.6	9.2	8.5	8.9	16.8	16.0	16.4	25.2	24.7	24.9
28	9.9	9.2	9.6	9.5	9.0	9.2	16.7	16.0	16.4	25.2	24.5	24.8
29	9.8	9.3	9.5	9.8	9.3	9.5	16.6	16.2	16.4	24.7	24.1	24.5
30	---	---	---	10.5	9.6	10.0	16.3	15.8	16.1	24.1	23.6	23.8
31	---	---	---	10.7	10.3	10.4	---	---	---	24.4	23.2	23.9
MONTH	10.3	.5	5.1	10.7	5.5	8.6	17.4	9.7	13.2	25.2	15.6	20.9
	JUNE			JULY			AUGUST			SEPTEMBER		
1	23.9	23.4	23.7	---	---	---	---	---	---	27.8	27.4	27.6
2	24.0	23.2	23.6	---	---	---	---	---	---	27.5	27.0	27.3
3	24.1	23.4	23.9	---	---	---	---	---	---	27.7	27.1	27.3
4	23.6	23.3	23.4	---	---	---	---	---	---	27.6	27.1	27.4
5	24.2	23.3	23.8	---	---	---	---	---	---	27.6	27.1	27.3
6	24.1	23.7	23.8	---	---	---	---	---	---	27.6	26.9	27.3
7	24.1	23.6	23.7	---	---	---	---	---	---	27.9	27.2	27.5
8	23.9	23.5	23.7	---	---	---	---	---	---	27.6	27.1	27.4
9	23.5	22.9	23.2	---	---	---	---	---	---	27.5	26.9	27.2
10	23.0	22.6	22.8	---	---	---	---	---	---	27.5	26.9	27.2
11	22.9	22.3	22.6	---	---	---	---	---	---	27.7	26.8	27.2
12	23.2	22.6	22.8	---	---	---	---	---	---	27.7	26.8	27.1
13	23.6	22.8	23.1	---	---	---	27.7	26.9	27.3	26.9	26.1	26.4
14	24.4	23.3	23.9	---	---	---	27.6	27.3	27.5	26.1	25.5	25.7
15	25.0	23.9	24.6	---	---	---	27.4	27.2	27.3	25.8	24.5	25.3
16	26.3	24.5	25.2	---	---	---	27.8	27.0	27.3	24.5	23.6	24.2
17	26.3	25.0	25.7	28.7	27.7	28.1	28.1	27.2	27.7	24.4	23.8	24.1
18	26.5	25.8	26.1	28.8	28.0	28.3	27.9	27.6	27.8	24.1	23.5	23.8
19	26.7	25.9	26.2	29.2	28.1	28.5	28.0	27.4	27.7	24.4	23.5	23.9
20	26.8	25.9	26.3	29.0	28.4	28.6	28.0	27.7	27.8	24.2	23.6	23.9
21	27.5	26.5	26.9	29.1	28.5	28.7	28.7	27.8	28.2	24.0	23.4	23.7
22	27.1	26.4	26.7	---	---	---	29.3	28.4	28.8	23.5	23.1	23.3
23	27.1	26.5	26.8	---	---	---	29.5	28.7	29.1	23.5	23.0	23.2
24	27.5	26.3	26.9	---	---	---	29.1	28.3	28.7	23.4	23.1	23.3
25	28.5	26.7	27.5	---	---	---	29.1	28.3	28.7	23.2	22.6	23.0
26	28.3	27.3	27.8	---	---	---	29.0	28.3	28.7	23.3	22.6	23.0
27	28.3	27.1	27.7	---	---	---	28.7	28.2	28.4	23.0	22.3	22.8
28	---	---	---	---	---	---	28.6	28.0	28.3	22.3	21.5	22.0
29	---	---	---	---	---	---	28.5	28.0	28.3	22.2	21.3	21.7
30	---	---	---	---	---	---	28.4	27.8	28.1	22.5	21.5	21.9
31	---	---	---	---	---	---	28.1	27.7	27.9	---	---	---
MONTH YEAR	28.5 29.5	22.3 .5	24.9 15.2	29.2	27.7	28.4	29.5	26.9	28.1	27.9	21.3	25.1

CUMBERLAND RIVER BASIN

03438220 CUMBERLAND RIVER NEAR GRAND RIVERS, KY--Continued

WATER-QUALITY RECORDS
OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY				AUGUST			SEPTEMBER
1	---	---	---	---	---	---	---	---	---	6.4	3.1	4.4
2	---	---	---	---	---	---	---	---	---	7.1	4.5	5.3
3	---	---	---	---	---	---	---	---	---	8.2	4.5	5.6
4	---	---	---	---	---	---	---	---	---	7.2	4.4	5.6
5	---	---	---	---	---	---	---	---	---	7.6	4.0	5.1
6	---	---	---	---	---	---	---	---	---	7.9	3.9	5.4
7	---	---	---	---	---	---	---	---	---	6.4	3.6	4.6
8	---	---	---	---	---	---	---	---	---	4.2	3.1	3.5
9	---	---	---	---	---	---	---	---	---	4.4	3.2	3.7
10	---	---	---	---	---	---	---	---	---	5.3	3.4	4.2
11	---	---	---	---	---	---	---	---	---	7.2	4.1	5.0
12	---	---	---	---	---	---	---	---	---	7.1	5.0	6.0
13	---	---	---	---	---	---	---	---	---	7.0	5.0	5.7
14	---	---	---	---	---	---	---	---	---	6.7	4.6	5.4
15	---	---	---	---	---	---	---	---	---	6.7	4.6	5.5
16	---	---	---	---	---	---	---	---	---	6.4	5.7	6.1
17	---	---	---	---	---	---	---	---	---	6.0	4.5	5.3
18	---	---	---	---	---	---	---	---	---	6.2	5.4	5.8
19	---	---	---	---	---	---	---	---	---	6.7	5.6	6.1
20	---	---	---	---	---	---	---	---	---	6.1	5.7	6.0
21	---	---	---	---	---	---	---	---	---	6.3	5.8	6.0
22	---	---	---	---	---	---	---	---	---	7.1	5.9	6.5
23	---	---	---	---	---	---	---	---	---	7.9	6.6	7.2
24	---	---	---	---	---	---	---	---	---	8.3	6.9	7.5
25	---	---	---	---	---	---	---	---	---	8.1	6.8	7.8
26	---	---	---	---	---	---	---	---	---	8.7	7.4	7.9
27	---	---	---	---	---	---	---	---	---	9.2	7.3	8.1
28	---	---	---	---	---	---	---	---	---	8.9	7.5	8.2
29	---	---	---	---	---	---	---	---	---	9.5	8.0	8.8
30	---	---	---	---	---	---	---	---	---	9.2	8.0	8.4
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	9.5	3.1	6.0
YEAR	9.5	3.1	6.0									

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.7	7.7	8.1	---	---	---	11.3	10.1	10.7	11.4	11.2	11.3
2	9.0	7.1	7.8	---	---	---	10.3	9.9	10.1	11.3	11.1	11.2
3	7.9	7.3	7.6	---	---	---	10.0	9.6	9.8	11.9	11.2	11.4
4	7.8	6.7	7.2	---	---	---	10.1	9.7	9.9	11.8	11.4	11.6
5	8.4	7.2	7.7	---	---	---	9.8	9.6	9.7	11.6	11.3	11.5
6	8.0	7.1	7.5	---	---	---	9.9	9.6	9.8	11.8	11.5	11.6
7	8.6	7.3	7.8	---	---	---	10.1	9.8	10.0	12.1	11.7	11.9
8	8.8	7.3	8.0	---	---	---	10.4	9.9	10.1	12.7	12.0	12.3
9	8.2	7.4	7.8	---	---	---	10.4	10.0	10.2	12.6	12.3	12.5
10	8.1	7.3	7.6	---	---	---	10.9	10.3	10.6	12.6	12.4	12.5
11	8.7	7.5	8.1	---	---	---	11.0	10.7	10.8	12.5	12.1	12.4
12	9.1	7.9	8.5	---	---	---	10.8	10.6	10.7	12.4	12.0	12.2
13	9.3	7.5	8.5	---	---	---	11.0	10.6	10.8	12.3	11.9	12.1
14	7.9	7.0	7.4	---	---	---	10.8	10.5	10.7	12.1	11.9	12.0
15	8.1	7.3	7.7	---	---	---	10.8	10.6	10.7	12.1	11.9	12.0
16	9.1	7.7	8.3	---	---	---	10.9	10.6	10.7	12.3	11.8	12.0
17	9.4	7.2	7.8	---	---	---	10.7	10.6	10.6	11.9	11.4	11.7
18	9.2	7.3	7.6	---	---	---	10.6	10.4	10.5	11.4	10.9	11.1
19	8.6	7.0	7.6	---	---	---	10.5	10.3	10.4	11.5	11.2	11.3
20	7.7	6.8	7.2	---	---	---	10.7	10.3	10.5	11.7	11.4	11.6
21	7.6	7.1	7.3	---	---	---	10.6	10.2	10.4	11.7	11.5	11.6
22	8.2	7.0	7.5	11.3	10.3	11.0	10.6	10.3	10.4	11.7	11.4	11.6
23	8.7	7.5	7.9	11.3	10.4	10.7	10.8	10.4	10.6	11.5	11.1	11.3
24	8.1	7.2	7.6	10.6	10.2	10.4	11.0	10.6	10.8	11.3	11.0	11.1
25	8.6	7.7	8.1	10.6	10.3	10.4	11.1	10.8	10.9	11.7	11.3	11.4
26	8.4	7.4	7.9	10.7	10.4	10.6	11.3	10.9	11.2	11.5	11.2	11.4
27	---	---	---	10.5	10.1	10.2	11.6	11.0	11.2	12.0	11.2	11.5
28	---	---	---	10.6	10.1	10.3	11.7	11.3	11.4	11.8	11.4	11.6
29	---	---	---	10.9	10.4	10.6	11.5	11.2	11.4	11.5	11.2	11.4
30	---	---	---	11.5	10.9	11.1	11.6	11.3	11.4	11.8	11.2	11.5
31	---	---	---	---	---	---	11.5	11.3	11.4	12.1	11.7	11.9
MONTH	9.4	6.7	7.8	11.5	10.1	10.6	11.7	9.6	10.6	12.7	10.9	11.7

CUMBERLAND RIVER BASIN

03438220 CUMBERLAND RIVER NEAR GRAND RIVERS, KY--Continued

WATER-QUALITY RECORDS

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
February				March			April			May		
1	12.3	12.0	12.1	11.0	10.4	10.7	10.5	10.2	10.4	8.3	7.8	8.1
2	12.8	12.1	12.4	10.8	10.6	10.7	10.8	10.2	10.5	8.6	7.9	8.3
3	13.1	12.7	12.9	11.2	10.6	10.9	10.7	10.3	10.5	8.5	7.5	8.0
4	13.4	12.9	13.2	11.1	10.8	10.9	10.6	10.1	10.3	8.3	7.7	8.0
5	13.5	12.8	13.2	10.8	10.5	10.7	10.2	9.9	10.1	9.9	7.7	8.1
6	13.5	12.5	13.1	10.6	10.4	10.5	10.2	9.8	10.0	8.7	7.8	8.2
7	13.6	13.2	13.4	10.8	10.4	10.6	10.5	10.1	10.2	8.7	7.8	8.2
8	13.3	12.7	13.0	11.5	10.7	11.1	10.6	10.2	10.4	8.0	7.5	7.8
9	12.8	12.6	12.7	11.8	11.4	11.6	10.9	10.3	10.5	7.6	7.0	7.3
10	12.8	12.5	12.7	11.6	11.1	11.3	11.1	10.5	10.8	7.6	7.0	7.3
11	12.6	12.4	12.5	11.1	11.0	11.1	11.2	10.6	11.0	7.7	6.7	7.2
12	12.6	12.4	12.5	11.3	10.9	11.1	11.1	10.6	10.8	7.7	7.2	7.5
13	12.9	12.5	12.6	11.4	11.2	11.3	10.6	10.4	10.5	7.5	6.9	7.2
14	12.6	12.4	12.5	11.6	11.2	11.4	11.1	10.3	10.7	7.6	6.8	7.2
15	12.7	12.4	12.5	11.3	11.0	11.2	10.8	9.3	10.1	7.7	6.9	7.2
16	12.8	12.5	12.6	11.2	10.8	11.0	10.2	9.8	10.1	7.3	6.9	7.1
17	12.9	12.5	12.7	11.3	10.8	11.0	10.9	9.7	10.3	7.7	6.8	7.2
18	13.0	12.5	12.7	11.1	10.8	10.9	10.6	9.0	10.2	7.4	6.9	7.2
19	12.8	12.5	12.6	10.8	10.4	10.5	10.3	9.5	9.9	8.4	7.0	8.0
20	12.8	12.5	12.7	10.8	10.4	10.6	9.9	9.1	9.5	8.6	7.7	8.1
21	12.9	12.6	12.7	11.4	10.7	11.0	9.6	8.9	9.2	7.9	7.4	7.7
22	12.8	12.4	12.6	11.2	10.8	11.0	9.8	8.6	9.0	8.6	7.5	7.9
23	12.6	11.9	12.3	10.9	10.7	10.8	8.6	8.2	8.4	8.3	7.3	7.8
24	12.0	11.6	11.8	11.0	10.7	10.8	8.6	8.1	8.3	7.8	7.0	7.3
25	11.6	11.3	11.5	10.9	10.6	10.8	8.4	7.8	8.1	7.7	7.0	7.3
26	11.4	11.0	11.1	11.2	10.7	10.9	8.4	7.8	8.0	7.4	6.9	7.2
27	11.2	10.7	11.0	11.2	10.9	11.1	8.8	8.0	8.4	7.0	6.5	6.8
28	11.0	10.6	10.8	11.1	10.7	10.9	11.3	7.9	8.3	6.7	6.2	6.4
29	10.9	10.5	10.7	11.0	10.7	10.8	11.3	7.8	8.3	6.6	6.0	6.3
30	---	---	---	10.8	10.6	10.7	8.4	7.8	8.0	6.7	6.0	6.3
31	---	---	---	10.8	10.3	10.4	---	---	---	7.4	5.8	6.4
Month	13.6	10.5	12.4	11.8	10.3	10.9	11.3	7.8	9.7	9.9	5.8	7.4
June				July			August			September		
1	7.0	6.4	6.9	---	---	---	---	---	---	6.7	4.5	5.7
2	6.9	5.9	6.4	---	---	---	---	---	---	6.2	4.8	5.6
3	6.9	6.0	6.5	---	---	---	---	---	---	6.7	5.3	6.0
4	6.6	5.9	6.1	---	---	---	---	---	---	7.4	5.9	6.8
5	8.0	6.1	6.9	---	---	---	---	---	---	8.9	5.5	7.0
6	7.2	5.9	6.6	---	---	---	---	---	---	9.4	5.5	7.7
7	6.4	5.8	6.0	---	---	---	---	---	---	8.3	5.3	6.9
8	6.4	5.6	6.0	---	---	---	---	---	---	8.3	5.8	7.1
9	6.0	5.3	5.6	---	---	---	---	---	---	8.6	5.5	7.1
10	5.5	5.2	5.3	---	---	---	---	---	---	7.9	6.0	7.2
11	5.4	5.2	5.3	---	---	---	---	---	---	9.9	6.1	7.4
12	---	---	---	---	---	---	---	---	---	8.8	6.4	7.2
13	---	---	---	---	---	---	9.2	6.4	7.8	7.8	6.2	6.9
14	---	---	---	---	---	---	8.2	6.1	7.1	9.0	6.4	7.2
15	---	---	---	---	---	---	7.9	7.1	7.5	8.0	6.1	6.7
16	---	---	---	---	---	---	9.5	7.4	8.1	8.2	6.4	7.0
17	---	---	---	9.0	6.2	7.4	10.4	7.7	9.2	8.6	5.9	6.8
18	---	---	---	8.1	5.9	6.9	10.5	8.0	9.2	9.1	6.5	7.6
19	---	---	---	8.6	6.1	7.0	8.9	7.0	8.1	8.6	6.4	7.5
20	---	---	---	8.6	5.9	7.0	8.9	6.3	8.1	8.9	6.9	7.7
21	---	---	---	8.3	7.4	7.8	9.9	7.1	8.3	8.0	6.4	7.0
22	---	---	---	---	---	---	9.9	6.7	8.5	8.0	6.6	7.0
23	---	---	---	---	---	---	9.8	7.1	8.6	8.2	6.8	7.3
24	---	---	---	---	---	---	8.3	5.2	7.0	7.6	6.9	7.2
25	---	---	---	---	---	---	9.4	5.0	7.4	7.2	6.2	6.5
26	---	---	---	---	---	---	9.6	6.2	8.0	7.9	5.7	6.6
27	---	---	---	---	---	---	8.7	6.1	7.3	6.6	5.2	6.0
28	---	---	---	---	---	---	8.0	4.8	6.5	7.0	5.4	6.2
29	---	---	---	---	---	---	8.0	5.0	6.4	8.0	5.6	6.9
30	---	---	---	---	---	---	7.4	4.7	5.7	8.0	5.1	6.8
31	---	---	---	---	---	---	5.8	4.5	5.2	---	---	---
Month	8.0	5.2	6.1	9.0	5.9	7.2	10.5	4.5	7.6	9.9	4.5	6.9
Year	13.6	4.5	9.4									

CUMBERLAND RIVER BASIN

03438220 CUMBERLAND RIVER NEAR GRAND RIVERS, KY--Continued

WATER-QUALITY RECORDS

TURBIDITY (JACKSON CANDLE UNITS), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	26	14
2	---	---	---	---	---	---	---	---	---	---	45	21
3	---	---	---	---	---	---	---	---	---	---	87	44
4	---	---	---	---	---	---	---	---	---	---	100	9
5	---	---	---	---	---	---	---	---	---	---	36	15
6	---	---	---	---	---	---	---	---	---	---	48	27
7	---	---	---	---	---	---	---	---	---	---	74	43
8	---	---	---	---	---	---	---	---	---	---	100	72
9	---	---	---	---	---	---	---	---	---	---	100	47
10	---	---	---	---	---	---	---	---	---	---	90	21
11	---	---	---	---	---	---	---	---	---	---	83	28
12	---	---	---	---	---	---	---	---	---	---	100	28
13	---	---	---	---	---	---	---	---	---	---	100	20
14	---	---	---	---	---	---	---	---	---	---	100	41
15	---	---	---	---	---	---	---	---	---	---	100	50
16	---	---	---	---	---	---	---	---	---	---	92	50
17	---	---	---	---	---	---	---	---	---	---	87	40
18	---	---	---	---	---	---	---	---	---	---	97	20
19	---	---	---	---	---	---	---	---	---	---	100	60
20	---	---	---	---	---	---	---	---	---	---	92	28
21	---	---	---	---	---	---	---	---	---	---	90	28
22	---	---	---	---	---	---	---	---	---	---	100	28
23	---	---	---	---	---	---	---	---	---	---	83	33
24	---	---	---	---	---	---	---	---	---	---	95	28
25	---	---	---	---	---	---	---	---	---	---	91	25
26	---	---	---	---	---	---	---	---	---	---	34	25
27	---	---	---	---	---	---	---	---	---	---	42	25
28	---	---	---	---	---	---	---	---	---	---	33	27
29	---	---	---	---	---	---	---	---	---	---	37	26
30	---	---	---	---	---	---	---	---	---	---	41	29
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	100	9
YEAR	100	9										

TURBIDITY (JACKSON CANDLE UNITS), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	47	31	---	---	---	---	---	---	9	6	7	7
2	46	31	---	---	---	---	---	---	7	6	8	6
3	46	36	---	---	---	---	---	---	7	6	8	6
4	55	44	---	---	---	---	---	---	7	5	7	6
5	69	48	---	---	---	---	---	---	6	4	10	6
6	87	59	---	---	---	---	---	---	6	4	7	6
7	100	10	---	---	---	---	---	---	5	4	9	7
8	14	12	---	---	---	---	---	---	4	3	11	8
9	15	13	---	---	---	---	---	---	4	3	10	8
10	19	15	---	---	---	---	---	---	5	4	12	9
11	24	18	---	---	---	---	---	---	7	4	12	11
12	36	24	---	---	---	---	---	---	6	4	11	10
13	43	31	---	---	---	---	---	---	5	4	10	9
14	37	30	---	---	---	---	---	---	4	4	9	8
15	42	34	---	---	---	---	---	---	5	4	8	8
16	46	38	---	---	---	---	---	---	6	5	8	7
17	60	10	---	---	---	---	5	4	6	4	8	7
18	14	10	---	---	---	---	23	4	5	4	8	7
19	14	10	---	---	---	---	7	5	5	4	12	8
20	13	10	---	---	---	---	5	4	4	4	11	10
21	13	10	---	---	---	---	5	4	5	4	10	10
22	12	10	14	12	---	---	6	4	5	4	11	9
23	16	10	---	---	---	---	12	5	9	5	13	11
24	14	10	---	---	---	---	12	6	10	7	15	11
25	14	9	---	---	---	---	7	6	9	8	15	12
26	10	9	---	---	---	---	9	6	9	8	13	10
27	---	---	---	---	---	---	13	8	9	7	11	10
28	---	---	---	---	---	---	13	9	8	7	11	10
29	---	---	---	---	---	---	13	11	8	7	10	10
30	---	---	---	---	---	---	12	10	---	---	10	10
31	---	---	---	---	---	---	10	9	---	---	12	10
MONTH	100	9	14	12	---	---	23	4	10	3	15	6

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 sea level.

REMARKS.--Estimated daily discharges: Oct. 12-25, Dec. 9-10, Jan 7-9, 11-13, 19, 24-28, Feb 4-21, 28, March 6-10, 19-22, 25-27, April 1-3 and July 17-20, 26-29, 31
Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	8.2	18	28	77	41	240	203	34	26	156	13
2	6.2	23	18	91	68	36	220	116	2700	25	43	16
3	11	13	18	130	62	31	130	82	473	25	26	19
4	9.0	9.2	18	60	54	29	97	66	426	24	21	11
5	7.0	7.8	18	39	52	54	75	55	141	23	18	13
6	7.1	8.7	18	36	50	900	60	275	157	26	17	13
7	6.4	318	17	33	48	280	52	327	230	28	63	15
8	5.8	135	17	30	45	150	55	522	226	31	118	17
9	5.5	37	17	30	40	120	50	178	353	58	206	20
10	6.2	23	17	34	35	110	44	95	523	31	30	18
11	6.0	231	17	140	30	77	39	253	282	24	19	17
12	5.9	156	17	370	26	67	38	212	1120	21	17	15
13	5.8	57	17	230	23	58	91	99	351	21	15	15
14	5.7	39	18	144	21	51	159	74	161	22	13	14
15	5.6	31	18	103	20	50	83	1560	99	33	12	15
16	5.5	27	25	79	19	46	56	297	70	25	12	89
17	5.4	25	21	68	18	57	43	146	58	15	10	34
18	5.3	23	77	171	17	48	38	91	59	10	9.1	18
19	6.0	22	63	420	108	120	37	69	57	12	9.1	14
20	6.8	21	41	201	360	500	282	56	50	27	8.9	13
21	7.0	21	30	134	200	340	196	48	41	39	8.9	1210
22	9.0	19	27	104	118	180	92	45	38	38	8.5	219
23	9.0	30	25	187	81	107	81	40	35	22	7.6	42
24	7.0	27	23	670	57	79	61	36	38	19	7.2	25
25	6.4	23	22	420	44	480	49	32	125	16	8.3	22
26	7.6	20	22	290	40	330	49	28	50	12	8.5	21
27	67	20	22	240	38	140	38	255	32	11	9.8	813
28	15	19	21	180	96	108	34	458	30	13	11	1210
29	8.3	18	23	137	52	97	614	109	28	17	9.8	190
30	6.8	18	24	111	---	82	462	61	26	28	11	93
31	6.7	---	27	92	---	149	---	43	---	880	13	---
TOTAL	278.7	1429.9	756	5002	1899	4917	3565	5931	8013	1602	926.7	4244
MEAN	8.99	47.7	24.4	161	65.5	159	119	191	267	51.7	29.9	141
MAX	67	318	77	670	360	900	614	1560	2700	880	206	1210
MIN	5.3	7.8	17	28	17	29	34	28	26	10	7.2	11
CFSM	.07	.36	.18	1.20	.49	1.18	.89	1.43	1.99	.39	.22	1.06
IN.	.08	.40	.21	1.39	.53	1.37	.99	1.65	2.22	.44	.26	1.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1996, BY WATER YEAR (WY)

MEAN	49.6	182	374	230	466	231	224	211	93.8	59.9	46.6	23.9
MAX	205	684	1065	550	1693	576	623	925	267	264	377	141
(WY)	1986	1989	1983	1988	1989	1984	1983	1983	1996	1989	1995	1996
MIN	2.96	23.1	24.4	27.4	65.5	61.7	21.6	12.4	3.88	4.95	2.40	2.36
(WY)	1988	1988	1996	1987	1996	1995	1986	1988	1988	1986	1983	1983

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR			FOR 1996 WATER YEAR			WATER YEARS 1983 - 1996		
ANNUAL TOTAL	39038.9			38564.3					
ANNUAL MEAN	107			105			181		
HIGHEST ANNUAL MEAN							367		
LOWEST ANNUAL MEAN							69.8		
HIGHEST DAILY MEAN	3530	Aug	5	2700	Jun	2	11200	Feb	14 1989
LOWEST DAILY MEAN	4.6	Sep	4	5.3	Oct	18	1.6	Aug	29 1983
ANNUAL SEVEN-DAY MINIMUM	5.1	Aug	30	5.6	Oct	12	1.7	Aug	31 1983
INSTANTANEOUS PEAK FLOW				4490	Jun	2	16000	Dec	25 1982
INSTANTANEOUS PEAK STAGE				13.84	Jun	2	17.40	Dec	25 1982
ANNUAL RUNOFF (CFSM)	.80			.79			1.35		
ANNUAL RUNOFF (INCHES)	10.84			10.71			18.36		
10 PERCENT EXCEEDS	171			244			329		
50 PERCENT EXCEEDS	26			36			29		
90 PERCENT EXCEEDS	6.1			9.0			5.1		

MASSAC CREEK BASIN

03611260 MASSAC CREEK NEAR PADUCAH, KY

LOCATION.--Lat 37°02'29", long 88°42'39", McCracken County, Hydrologic Unit 05140206, on left upstream wingwall of bridge on U.S. Highway 62, 1.2 mi upstream from Middle Fork, 6.9 mi west of post office in Paducah, and at mile 8.3.

DRAINAGE AREA.--14.6 mi².

PERIOD OF RECORD.--October 1971 to current year.

REVISED RECORDS.--1983 (M), 1984 (M).

GAGE.--Water-stage recorder. Datum of gage is 345.53 ft above sea level.

REMARKS.--Estimated daily discharges: Dec. 8, 9, Dec. 25 to Jan. 5, Jan. 7-9, Feb. 2-10, Mar. 6, 8-10 and June 2. Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	1.1	.83	.90	4.6	3.7	14	19	14	1.0	.79	.58
2	.74	1.0	.82	19	4.5	3.3	6.6	13	105	.95	.81	.64
3	1.9	1.0	.83	13	4.4	2.8	4.6	9.0	6.2	.90	.80	.65
4	.68	1.0	.75	4.9	4.8	2.8	4.9	6.4	2.9	.87	.78	.74
5	.59	1.1	.77	5.0	5.0	21	3.9	19	2.1	.86	.77	.68
6	.62	1.5	.77	3.5	5.1	206	3.2	255	2.0	.81	.74	.73
7	.63	2.2	.78	2.9	5.2	35	2.9	268	23	.81	.77	.67
8	.67	1.1	.76	2.6	5.3	15	3.9	65	5.1	.86	.72	.64
9	.65	1.0	.74	2.8	5.4	10	3.1	22	17	.84	.69	.88
10	.68	1.2	.87	3.1	4.5	6.6	2.5	15	11	.80	.69	.84
11	.67	43	.87	47	3.0	6.1	2.2	99	106	.94	.70	.54
12	.62	1.5	.93	32	2.7	5.6	2.1	21	457	.86	.75	.55
13	.64	1.0	.95	12	2.7	5.0	21	13	43	.80	.72	.54
14	.58	.85	.92	9.5	2.9	4.4	9.2	9.8	14	1.2	.67	.54
15	.58	.80	.97	5.6	2.8	17	4.8	447	7.5	1.2	.69	.70
16	.61	.75	1.1	4.4	2.7	9.7	3.0	37	5.1	.79	.69	54
17	.62	.75	1.0	4.2	2.7	6.4	2.4	18	3.8	.77	.68	1.1
18	.61	.75	7.9	85	2.8	4.8	2.2	10	3.7	.76	.79	.77
19	.65	.74	12	24	5.7	36	2.1	6.6	2.9	.78	.77	.72
20	1.2	.75	2.5	8.4	4.7	15	125	4.8	2.4	6.4	.68	.71
21	.74	.71	1.5	6.3	3.6	8.9	15	3.6	2.1	16	.68	154
22	.67	.71	1.3	5.5	3.4	5.0	11	3.0	1.8	6.7	.67	2.9
23	.73	1.0	1.1	71	3.6	3.7	91	2.5	1.6	1.1	.65	1.1
24	.89	.84	1.1	63	2.9	3.4	20	2.0	38	.89	.66	.95
25	.77	.77	1.1	13	2.7	36	12	1.7	6.4	.83	.64	.87
26	.82	.83	1.0	13	2.8	8.5	16	1.6	1.9	.81	.64	1.2
27	3.9	.89	1.0	10	5.7	5.0	7.5	5.2	1.5	.79	.64	42
28	.84	.85	.96	6.2	11	5.1	8.8	3.0	1.3	.78	.63	21
29	.82	.80	.96	5.8	4.2	5.4	370	1.5	1.2	.83	.60	2.6
30	.84	.80	.94	5.0	---	4.2	47	1.3	1.1	.83	.58	2.1
31	.87	---	.92	4.6	---	36	---	1.2	---	.86	.58	---
TOTAL	26.53	71.29	48.94	493.20	121.4	537.4	821.9	1384.2	890.6	53.62	21.67	295.94
MEAN	.86	2.38	1.58	15.9	4.19	17.3	27.4	44.7	29.7	1.73	.70	9.86
MAX	3.9	43	12	85	11	206	370	447	457	16	.81	154
MIN	.58	.71	.74	.90	2.7	2.8	2.1	1.2	1.1	.76	.58	.54
CFSM	.06	.16	.11	1.09	.29	1.19	1.88	3.06	2.03	.12	.05	.68
IN.	.07	.18	.12	1.26	.31	1.37	2.09	3.53	2.27	.14	.06	.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1996, BY WATER YEAR (WY)

MEAN	3.13	13.8	28.1	21.8	37.6	29.5	32.0	17.9	8.35	8.59	2.90	4.60
MAX	19.4	41.6	105	48.1	160	103	121	58.8	33.9	37.3	13.9	50.1
(WY)	1986	1989	1983	1974	1989	1975	1973	1983	1975	1983	1982	1985
MIN	.25	.37	.71	.58	4.19	8.36	2.14	1.17	.32	.37	.30	.23
(WY)	1982	1972	1977	1977	1996	1987	1986	1992	1972	1974	1980	1976

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1972 - 1996

ANNUAL TOTAL	4169.39	4766.69	
ANNUAL MEAN	11.4	13.0	17.2
HIGHEST ANNUAL MEAN			37.9
LOWEST ANNUAL MEAN			6.53
HIGHEST DAILY MEAN	461 Feb 15	457 Jun 12	1780 Feb 13 1989
LOWEST DAILY MEAN	.58 Oct 14	.54 Sep 11	.09 Nov 13 1971
ANNUAL SEVEN-DAY MINIMUM	.61 Oct 12	.61 Aug 26	.10 Nov 10 1971
INSTANTANEOUS PEAK FLOW		1440 May 15	5990 Sep 5 1985
INSTANTANEOUS PEAK STAGE		10.61 May 15	15.86 Sep 5 1985
INSTANTANEOUS LOW FLOW			.06 Nov 14 1971
ANNUAL RUNOFF (CFSM)	.78	.89	1.18
ANNUAL RUNOFF (INCHES)	10.62	12.15	16.04
10 PERCENT EXCEEDS	17	20	29
50 PERCENT EXCEEDS	1.6	2.0	2.1
90 PERCENT EXCEEDS	.68	.68	.41

OHIO RIVER MAIN STEM

03611500 OHIO RIVER AT METROPOLIS, IL

LOCATION.--Lat 37°08'51", long 88°44'27", McCracken County, Hydrologic Unit 05140206, near center of span on downstream side of pier of Paducah & Illinois Railroad bridge at Metropolis, 9.5 mi downstream from Tennessee River, 37 mi upstream from mouth, and at mile 944.1.

DRAINAGE AREA.--203,000 mi², approximately.

PERIOD OF RECORD.--January 1928 to current year. Prior to April 1928 monthly discharge only, published in WSP 1305. Gage-height records collected 9.6 mi upstream at Paducah since 1890 are contained in reports of National Weather Service. Occasional discharge measurements 1881 to 1924 in reports of Mississippi River Commission.

GAGE.--Water-stage recorder. Datum of gage is 276.27 ft above sea level. Prior to Dec. 22, 1936, water-stage recorders (temporary installations) at Paducah, Ky., Metropolis and Joppa, Il., and Dam 52. Auxiliary water-stage recorder near Grand Chain, 0.5 mi upstream from Dam 53, and 18 mi downstream from base gage. Prior to May 29, 1936, auxiliary nonrecording gage at Dam 53.

REMARKS.--Estimated daily discharges: Oct. 1-5, Nov. 11, Dec. 1, 16, 17, Jan. 30 to Feb. 5, Mar. 2 and Sept. 1-4. Records fair except those below 100,000 ft³/s and for periods of estimated record, which are poor. Flow regulated by many dams and reservoirs. Maximum daily discharge includes overflow through Bay Creek and Cache River Valleys.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82200	146000	162000	173000	891000	386000	624000	629000	671000	241000	181000	78200
2	74900	133000	191000	169000	885000	400000	565000	671000	681000	222000	222000	85200
3	79100	135000	185000	180000	875000	442000	554000	684000	683000	217000	259000	79300
4	83300	146000	190000	199000	855000	467000	562000	676000	648000	181000	286000	98500
5	131000	147000	163000	231000	840000	492000	574000	682000	623000	167000	291000	96200
6	175000	148000	156000	303000	801000	535000	582000	694000	590000	173000	273000	124000
7	233000	156000	157000	334000	734000	582000	575000	746000	554000	165000	211000	131000
8	227000	183000	147000	360000	634000	614000	548000	792000	520000	169000	178000	120000
9	229000	177000	153000	378000	480000	622000	483000	841000	499000	180000	158000	167000
10	222000	196000	152000	329000	375000	626000	400000	870000	506000	152000	140000	188000
11	210000	230000	149000	286000	370000	645000	318000	890000	550000	133000	159000	177000
12	187000	292000	152000	294000	384000	661000	255000	887000	583000	176000	168000	146000
13	168000	306000	142000	310000	425000	673000	231000	885000	604000	149000	163000	129000
14	129000	310000	143000	305000	477000	667000	215000	867000	625000	147000	158000	133000
15	124000	325000	137000	309000	495000	614000	201000	874000	638000	170000	156000	119000
16	136000	341000	151000	312000	473000	544000	195000	876000	631000	146000	165000	135000
17	159000	345000	160000	313000	474000	488000	193000	872000	616000	159000	218000	182000
18	153000	343000	196000	314000	433000	447000	185000	867000	587000	176000	218000	191000
19	138000	330000	212000	355000	382000	439000	204000	870000	547000	171000	182000	188000
20	131000	310000	264000	441000	350000	454000	251000	875000	489000	176000	81500	199000
21	122000	265000	325000	509000	337000	483000	294000	891000	451000	176000	106000	219000
22	103000	223000	367000	557000	342000	523000	397000	892000	425000	202000	124000	229000
23	97200	219000	395000	608000	353000	579000	506000	887000	400000	248000	125000	243000
24	103000	218000	408000	649000	323000	608000	539000	882000	408000	299000	142000	238000
25	95900	211000	410000	687000	344000	628000	560000	874000	403000	340000	131000	208000
26	113000	206000	356000	726000	362000	646000	576000	854000	383000	336000	127000	168000
27	110000	204000	270000	779000	361000	670000	562000	817000	336000	269000	146000	151000
28	110000	195000	221000	827000	367000	688000	544000	772000	298000	226000	124000	204000
29	123000	173000	201000	871000	369000	693000	563000	726000	284000	197000	124000	218000
30	110000	142000	192000	896000	---	676000	583000	704000	275000	148000	114000	247000
31	132000	---	173000	909000	---	655000	---	681000	---	169000	90400	---
TOTAL	4290600	6755000	6680000	13913000	14791000	17647000	12839000	25028000	15508000	6080000	5220900	4891400
MEAN	138400	225200	215500	448800	510000	569300	428000	807400	516900	196100	168400	163000
MAX	233000	345000	410000	909000	891000	693000	624000	892000	683000	340000	291000	247000
MIN	74900	133000	137000	169000	323000	386000	185000	629000	275000	133000	81500	78200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1996, BY WATER YEAR (WY)

MEAN	102300	164500	289200	398700	468900	522500	462100	337800	214000	152100	121600	100300
MAX	335600	450300	717500	1022000	1217000	967300	896400	917800	516900	441200	331100	383500
(WY)	1980	1986	1973	1937	1937	1945	1994	1983	1996	1928	1958	1979
MIN	22710	33400	48610	71650	77370	154700	129900	75180	53840	23350	25390	29330
(WY)	1931	1931	1931	1940	1934	1941	1986	1941	1936	1930	1930	1930

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1928 - 1996	
ANNUAL TOTAL	96121800		133643900		276100	
ANNUAL MEAN	263300		365100		436600	
HIGHEST ANNUAL MEAN					120300	
LOWEST ANNUAL MEAN					1931	
HIGHEST DAILY MEAN	821000	May 27	909000	Jan 31	1850000	Feb 1 1937
LOWEST DAILY MEAN	67200	Sep 14	74900	Oct 2	15000	Jul 20 1930
ANNUAL SEVEN-DAY MINIMUM	71900	Sep 8	91700	Aug 30	16600	Jul 20 1930
INSTANTANEOUS PEAK FLOW			920000	Jan 31	1850000	Feb 1 1937
INSTANTANEOUS PEAK STAGE			52.74	May 17	66.60	Feb 2 1937
10 PERCENT EXCEEDS	591000		711000		637000	
50 PERCENT EXCEEDS	196000		291000		189000	
90 PERCENT EXCEEDS	94800		131000		67500	

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 sea level (levels by U.S. Department of Energy).

REMARKS.--Estimated daily discharges: Dec. 9-12, 22-30, Jan. 7-11, 16-21, 26, 27, Jan. 30 to Feb. 6, Feb. 16-18 and Mar. 8-10. Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	.48	.68	.61	.44	.75	1.3	1.8	.15	.11	1.6	.29
2	.32	.41	.72	1.6	.42	.65	.91	1.0	1.6	.15	1.4	.31
3	.48	.43	.61	1.2	.40	.51	.83	.55	.20	.22	.86	.24
4	.27	.49	.52	.61	.40	.44	.90	.29	.11	.16	.24	.32
5	.25	.49	.59	.49	.42	42	.80	.90	.12	.20	.18	.24
6	.24	.67	.50	.41	.44	103	.72	121	.21	.23	.14	.21
7	.21	.87	.49	.38	.43	5.3	.68	17	1.1	.24	.14	.19
8	.21	.59	.65	.36	.47	3.0	.92	8.0	.46	.47	.19	.21
9	.24	.56	.70	.34	.78	1.8	.82	2.2	.60	.50	.23	.29
10	.24	.66	.66	.32	.53	1.2	.66	1.0	1.0	.35	.19	.25
11	.24	7.1	.64	3.2	.33	1.0	.63	35	4.3	.30	.22	.19
12	.25	.96	.62	3.6	.25	.95	.62	3.0	242	.30	.27	.19
13	.28	.69	.60	1.2	.29	.77	4.2	1.5	5.3	.33	.23	.22
14	.31	.60	.62	.72	.31	.64	2.3	1.5	2.2	2.7	.21	.20
15	.31	.64	.57	.47	.35	1.2	1.4	117	1.1	1.2	.22	.27
16	.29	.63	.73	.35	.33	1.5	.83	4.8	.58	.14	.22	3.1
17	.25	.61	.77	.30	.30	1.6	.51	2.6	.31	.11	.23	.38
18	.27	.61	1.6	20	.34	1.0	.40	1.5	.48	.12	.22	.20
19	.28	.59	2.8	3.0	1.9	9.2	.38	1.1	.28	.14	.23	.20
20	.54	.55	1.1	1.5	1.3	3.0	26	.74	.16	2.6	.23	.21
21	.24	.55	.61	.80	.92	1.8	2.0	.51	.21	2.1	.22	10
22	.24	.55	.50	.50	.65	1.2	1.4	.41	.18	1.8	.27	.54
23	.22	.62	.52	17	.58	.80	54	.31	.17	.35	.25	.31
24	.38	.58	.50	6.3	.43	.67	3.6	.21	1.0	.16	.28	.37
25	.30	.61	.48	1.6	.35	7.8	1.7	.15	.59	.14	.32	.38
26	.27	.65	.48	1.3	.33	2.1	3.1	.26	.13	.12	.33	.76
27	1.1	.63	.50	1.0	.84	1.3	1.1	2.2	.11	.12	.33	12
28	.39	.55	.54	.82	1.8	1.2	1.0	1.2	.11	.13	.30	3.6
29	.35	.66	.50	.68	.93	1.2	82	.31	.10	.14	.27	.64
30	.35	.63	.50	.48	---	.95	4.3	.17	.10	198	.28	.43
31	.35	---	.58	.46	---	1.8	---	.13	---	7.7	.28	---
TOTAL	9.97	24.66	21.88	71.60	17.26	200.33	200.01	328.34	264.96	221.33	10.58	36.74
MEAN	.32	.82	.71	2.31	.60	6.46	6.67	10.6	8.83	7.14	.34	1.22
MAX	1.1	7.1	2.8	20	1.9	103	82	121	242	198	1.6	12
MIN	.21	.41	.48	.30	.25	.44	.38	.13	.10	.11	.14	.19
CFSM	.05	.13	.11	.35	.09	.99	1.02	1.62	1.35	1.09	.05	.19
IN.	.06	.14	.12	.41	.10	1.14	1.14	1.86	1.50	1.26	.06	.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1996, BY WATER YEAR (WY)

MEAN	.68	3.56	12.5	9.53	10.1	7.74	8.65	10.2	3.66	1.80	1.30	.85
MAX	1.72	14.9	37.2	13.6	15.6	11.3	16.6	16.5	8.83	7.14	5.42	2.11
(WY)	1991	1994	1991	1994	1991	1991	1994	1995	1996	1996	1995	1993
MIN	.32	.45	.71	2.31	.60	3.26	4.90	.56	.17	.089	.12	.28
(WY)	1996	1991	1996	1996	1996	1995	1991	1994	1994	1993	1993	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1991 - 1996	
ANNUAL TOTAL	1817.92		1407.66			
ANNUAL MEAN	4.98		3.85		5.95	
HIGHEST ANNUAL MEAN					8.28	
LOWEST ANNUAL MEAN					3.85	
HIGHEST DAILY MEAN	167	Feb 15	242	Jun 12	478	Dec 21 1990
LOWEST DAILY MEAN	.07	May 25	.10	Jun 29	.05	Sep7 1991
ANNUAL SEVEN-DAY MINIMUM	.10	Jul 28	.12	Jun 26	.06	Jul2 1993
INSTANTANEOUS PEAK FLOW			1490	Jul 30	1490	May 12 1991
INSTANTANEOUS PEAK STAGE			8.45	Jul 30	8.45	May 12 1991
ANNUAL RUNOFF (CFSM)	.76		.59		.91	
ANNUAL RUNOFF (INCHES)	10.32		7.99		12.34	
10 PERCENT EXCEEDS	6.0		3.0		4.4	
50 PERCENT EXCEEDS	.49		.52		.40	
90 PERCENT EXCEEDS	.15		.20		.12	

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. Elevation of gage is 330 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 9-11, 24, 25, Jan. 5-8, 21, 22, 26, 27, Jan. 30 to Feb. 6, Feb. 16, 17 and Mar. 3, 4. Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	9.4	6.5	6.1	5.5	6.8	9.2	12	5.3	7.7	15	5.9
2	6.6	8.0	5.4	11	5.2	6.0	7.9	10	21	8.4	43	5.7
3	9.0	6.7	5.1	7.7	5.0	6.0	7.3	9.4	7.2	11	14	6.0
4	6.8	6.6	6.4	5.7	5.4	5.8	8.3	8.9	6.5	10	6.6	3.7
5	5.7	6.6	4.0	5.5	5.6	91	8.0	15	6.5	8.3	9.2	7.2
6	5.7	9.0	3.9	5.2	5.7	361	7.7	276	7.1	6.8	7.1	7.7
7	5.7	9.7	4.7	5.0	5.8	37	7.7	95	18	7.2	5.6	5.6
8	5.3	6.9	5.9	4.6	6.0	14	8.4	53	8.6	13	5.4	4.5
9	5.4	6.3	6.4	4.3	6.2	9.4	7.9	20	27	10	6.5	5.9
10	6.0	6.1	5.8	4.1	5.2	8.7	7.5	15	15	10	6.4	6.5
11	6.3	37	6.0	13	4.9	8.0	7.4	122	20	7.8	6.2	5.8
12	6.5	8.1	6.4	12	5.0	7.6	7.4	22	458	8.4	6.6	6.2
13	6.0	7.5	6.2	7.3	5.5	7.6	21	16	40	11	7.1	6.5
14	6.1	7.5	6.7	6.2	5.5	7.6	12	14	20	29	7.2	6.9
15	6.4	7.1	8.8	5.5	5.8	11	9.8	347	14	16	6.9	8.3
16	6.2	6.5	7.8	5.1	5.4	11	8.7	23	12	12	6.6	34
17	6.3	6.3	7.1	5.6	5.2	10	7.8	13	11	9.6	6.5	6.1
18	6.6	6.3	11	60	5.5	7.2	7.4	10	14	8.8	6.6	4.0
19	6.4	6.5	15	16	11	35	7.2	7.6	12	7.7	6.7	2.7
20	10	6.3	8.0	7.3	8.1	12	103	8.5	12	19	6.3	2.6
21	6.6	6.2	6.3	5.5	6.9	9.0	12	6.5	11	29	6.1	51
22	6.4	5.7	6.2	5.3	6.4	8.9	11	6.1	8.9	15	4.0	5.1
23	5.9	6.4	6.7	27	6.2	7.6	146	4.9	8.7	7.5	3.6	2.5
24	6.4	6.4	6.5	37	5.9	7.7	19	4.4	9.5	7.1	4.1	2.4
25	7.6	6.7	6.3	9.4	5.6	33	11	6.1	13	8.3	3.3	5.4
26	9.4	6.5	6.1	8.5	5.7	11	18	9.3	12	8.1	3.3	12
27	20	6.5	6.2	7.5	7.6	9.2	11	30	12	8.6	5.8	45
28	8.2	6.7	6.5	7.0	8.9	9.4	11	11	11	12	6.8	18
29	7.2	6.7	6.0	6.4	7.1	9.1	210	4.3	8.6	11	6.9	5.1
30	7.4	6.7	6.3	6.0	---	8.5	25	5.9	8.0	342	8.5	4.5
31	7.1	---	6.2	5.7	---	10	---	4.3	---	84	6.6	---
TOTAL	221.8	238.9	206.4	322.5	177.8	786.1	745.6	1190.2	837.9	754.3	244.5	292.8
MEAN	7.15	7.96	6.66	10.4	6.13	25.4	24.9	38.4	27.9	24.3	7.89	9.76
MAX	20	37	15	60	11	361	210	347	458	342	43	51
MIN	5.3	5.7	3.9	4.1	4.9	5.8	7.2	4.3	5.3	6.8	3.3	2.4
CFSM	.48	.53	.45	.70	.41	1.70	1.67	2.58	1.87	1.63	.53	.66
IN.	.55	.60	.52	.81	.44	1.96	1.86	2.97	2.09	1.88	.61	.73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1996, BY WATER YEAR (WY)

MEAN	7.81	14.6	28.0	28.4	27.1	24.6	27.5	27.7	17.1	10.8	9.03	8.32
MAX	9.89	36.2	60.7	39.2	37.9	30.6	41.0	38.4	27.9	24.3	16.8	12.6
(WY)	1995	1994	1991	1994	1991	1994	1994	1996	1996	1996	1995	1993
MIN	5.79	5.76	6.66	10.4	6.13	15.0	17.2	9.30	7.56	6.37	6.51	5.70
(WY)	1992	1991	1996	1996	1996	1995	1991	1994	1991	1994	1993	1991

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1991 - 1996	
ANNUAL TOTAL	6689.5		6018.8			
ANNUAL MEAN	18.3		16.4		19.4	
HIGHEST ANNUAL MEAN					20.8	
LOWEST ANNUAL MEAN					16.4	
HIGHEST DAILY MEAN	415	Feb 15	458	Jun 12	592	Dec 21 1990
LOWEST DAILY MEAN	3.9	Dec 6	2.4	Sep 24	2.0	Sep 3 1994
ANNUAL SEVEN-DAY MINIMUM	4.7	Jul 15	4.3	Aug 21	3.1	Sep 7 1994
INSTANTANEOUS PEAK FLOW			1660	Jul 30	1660	Jul 30 1996
INSTANTANEOUS PEAK STAGE			12.23	Jul 30	12.23	Jul 30 1996
ANNUAL RUNOFF (CFSM)	1.23		1.10		1.30	
ANNUAL RUNOFF (INCHES)	16.70		15.03		17.71	
10 PERCENT EXCEEDS	23		20		23	
50 PERCENT EXCEEDS	7.6		7.2		7.9	
90 PERCENT EXCEEDS	5.6		5.3		4.9	

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 sea level (levels by U.S. Department of Energy).

REMARKS.--Estimated daily discharges: Dec. 9-12, 26-28, Jan. 6-10, 19-21, 27, Jan. 30 to Feb. 7, Mar. 7-9, 15-28, May 12-24 and July 13 to Aug. 5. Records fair except for periods of estimated record, which are poor. Some regulation from Paducah Gaseous Diffusion Plant, 0.4 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.84	1.8	.79	.82	.82	.77	2.2	2.6	.84	.78	2.0	.62
2	.83	2.3	.81	3.9	.80	.76	1.6	1.4	4.6	.83	1.8	.60
3	1.8	1.0	.80	2.6	.78	.74	1.4	1.1	1.0	1.1	1.2	.62
4	.97	.93	.85	.96	.74	.71	1.5	.94	.85	.77	.90	.62
5	.94	.92	1.2	.74	.72	20	1.4	2.1	.82	.84	.70	.69
6	.79	1.2	.75	.68	.76	148	1.2	81	.94	.90	.63	.58
7	.80	7.0	.79	.66	.90	12	1.2	32	4.2	.89	.59	.58
8	.80	1.3	.82	.64	.98	4.0	1.4	13	1.4	1.3	.69	.61
9	.77	1.0	1.1	.62	.95	2.0	1.3	3.3	1.3	1.3	.61	.73
10	.75	.95	1.0	.60	.88	1.3	1.2	1.4	1.8	.87	.57	.66
11	.75	19	.98	5.3	.86	1.1	1.1	25	4.2	.90	.57	.65
12	.73	1.2	.96	4.4	.85	.88	1.1	5.0	155	.81	.62	.64
13	.74	.83	.94	1.1	.83	.92	7.4	2.0	8.0	.90	.64	.64
14	.81	1.0	.91	.81	.83	.86	4.6	1.8	1.7	4.0	.45	.66
15	.86	.91	.89	.77	1.0	1.3	2.5	140	.93	1.8	.56	.66
16	.86	.85	1.5	.72	.98	1.8	1.7	10	.84	1.0	.59	7.3
17	.84	.84	1.0	.78	.96	1.9	1.3	4.0	.81	.90	.57	1.0
18	.85	.72	5.6	20	.88	1.7	1.2	2.5	1.6	.86	.58	.82
19	.84	.76	7.8	7.0	4.9	12	1.2	2.0	.93	.80	.62	.70
20	4.2	.72	1.5	3.0	1.3	5.0	34	1.6	.84	2.0	.62	.71
21	.85	.73	.82	1.5	.84	2.7	5.8	1.2	.84	3.0	.62	23
22	.80	.76	.76	1.1	.77	2.0	3.3	.90	.77	1.5	.65	.96
23	.79	1.0	.72	6.5	.77	1.7	40	.80	.75	1.0	.63	.75
24	.84	.88	.71	18	.71	1.4	7.3	.74	.75	.90	.65	.82
25	.98	.81	.71	3.2	.64	10	2.5	.80	.76	.82	.60	.76
26	.93	.76	.70	1.7	.69	2.6	5.3	.97	.73	.78	.65	.99
27	12	.80	.72	1.5	.81	1.9	1.8	4.7	.73	.76	.64	16
28	1.1	.82	.74	1.2	1.7	1.8	1.7	1.5	.74	.80	.66	5.0
29	.82	.85	.72	1.0	.82	2.5	57	.82	.78	.90	.60	.90
30	.79	.81	.75	.92	---	1.9	9.0	.76	.77	200	.61	.73
31	.77	---	.81	.86	---	2.7	---	.75	---	10	.61	---
TOTAL	41.44	53.45	39.15	93.58	29.47	248.94	204.2	346.68	200.22	244.01	22.43	70.00
MEAN	1.34	1.78	1.26	3.02	1.02	8.03	6.81	11.2	6.67	7.87	.72	2.33
MAX	12	19	7.8	20	4.9	148	57	140	155	200	2.0	23
MIN	.73	.72	.70	.60	.64	.71	1.1	.74	.73	.76	.45	.58
CFSM	.23	.31	.22	.52	.18	1.39	1.18	1.93	1.15	1.36	.13	.40
IN.	.27	.34	.25	.60	.19	1.60	1.31	2.23	1.29	1.57	.14	.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1996, BY WATER YEAR (WY)

MEAN	1.89	4.62	11.7	10.5	9.71	8.33	9.97	8.58	3.16	2.60	1.46	1.83
MAX	3.11	16.0	33.5	17.9	17.0	12.0	19.2	13.2	6.67	7.87	3.34	2.98
(WY)	1991	1994	1991	1991	1991	1994	1994	1995	1996	1996	1995	1993
MIN	1.34	1.33	1.26	3.02	1.02	3.79	5.62	1.48	1.04	.82	.72	1.12
(WY)	1996	1992	1996	1996	1996	1995	1991	1994	1994	1991	1996	1995

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1991 - 1996

ANNUAL TOTAL	1734.12	1593.57	
ANNUAL MEAN	4.75	4.35	
HIGHEST ANNUAL MEAN			6.27
LOWEST ANNUAL MEAN			4.35
HIGHEST DAILY MEAN	138 Feb 15	200 Jul 30	292 Dec 21 1990
LOWEST DAILY MEAN	.02 May 25	.45 Aug 14	.02 May 25 1995
ANNUAL SEVEN-DAY MINIMUM	.72 Dec 23	.57 Aug 14	.43 Sep 25 1991
INSTANTANEOUS PEAK FLOW		475 Jun 12	718 Nov 17 1993
INSTANTANEOUS PEAK STAGE		9.35 May 15	9.35 May 15 1996
ANNUAL RUNOFF (CFSM)	.82	.75	1.08
ANNUAL RUNOFF (INCHES)	11.16	10.26	14.73
10 PERCENT EXCEEDS	6.0	5.1	8.0
50 PERCENT EXCEEDS	1.2	.90	1.1
90 PERCENT EXCEEDS	.78	.65	.66

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 auxiliary gaging station, 0.5 mi upstream from Gar Creek, 3.0 mi southwest of Grand Chain, 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 days dams and reservoirs.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 693 microsiemens, Nov. 25, 1968; minimum daily, 170 microsiemens, Feb. 9, 1957, Jan. 21, 1973.

WATER TEMPERATURES: Maximum daily, 31.0°C, July 15, 1964, July 17-21, 25, 1977; minimum daily, 0.0°C, on several days during most winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

		PH				OXYGEN,		HARD-		MAGNE-		SODIUM,	
DATE	TIME	STREAM FLOW INSTAN- TANEOUS (FT ³ /S) (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SOLVED (PER- CENT SATUR- ATION) (00301)	NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	SOLIUM, DIS- SOLVED (MG/L AS MG) (00925)	SOLVED (MG/L AS NA) (00930)	
NOV 1995													
30...	1430	176000	--	--	--	7.6	--	--	130	37	9.7	19	
JAN 1996													
18...	1251	317000	235	7.8	5.0	8.4	13.8	112	100	30	6.6	11	
FEB													
05...	1248	874000	257	8.0	0.5	61	13.5	91	94	27	6.3	8.4	
MAR													
07...	1240	580000	288	7.5	6.5	68	12.0	--	110	31	7.9	15	
APR													
09...	1040	482000	271	7.4	9.5	66	10.1	90	120	35	8.4	9.4	
25...	1119	554000	274	7.7	15.0	50	9.7	97	110	31	7.1	9.4	
MAY													
08...	1240	754000	293	7.3	17.0	58	7.9	--	120	36	8.0	7.7	
23...	1345	--	267	7.0	20.5	70	7.1	--	110	33	7.6	6.8	
JUN													
06...	1240	590000	302	7.2	21.0	63	6.6	74	130	36	8.9	7.4	
27...	1302	379000	334	7.5	27.0	33	5.9	74	130	37	10	8.7	
JUL													
10...	1252	162000	358	7.9	27.5	5.6	7.3	91	150	43	11	11	
AUG													
15...	1350	150000	337	7.7	28.0	4.3	7.1	--	120	34	9.5	15	
SEP													
11...	1230	177000	281	7.5	27.5	8.5	6.4	--	110	30	9.1	14	
DATE		POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
NOV 1995													
30...	3.0	100	82	82	21	57	0.2	4.5	218	0.02	1.20	0.05	
JAN 1996													
18...	1.9	--	70	--	12	28	0.1	4.7	155	0.01	0.85	0.04	
FEB													
05...	2.3	73	60	60	12	29	0.1	5.2	137	<0.01	1.50	0.05	
MAR													
07...	2.1	--	66	--	21	41	0.2	4.9	177	0.01	1.30	0.06	
APR													
09...	2.3	95	78	79	15	41	0.2	5.8	183	0.02	1.70	0.03	
25...	2.0	77	63	63	12	38	0.1	3.3	152	0.03	1.10	0.05	
MAY													
08...	2.4	86	71	70	11	34	0.1	4.5	186	0.03	1.30	<0.01	
23...	2.4	82	68	68	10	34	0.2	5.2	171	0.02	1.10	0.02	
JUN													
06...	2.7	95	78	77	11	39	0.2	5.5	180	0.02	1.70	0.06	
27...	2.5	116	95	95	13	37	0.2	5.6	198	0.02	1.90	0.05	
JUL													
10...	2.4	117	96	95	14	43	0.2	4.6	204	0.03	1.50	0.04	
AUG													
15...	2.6	102	84	83	18	54	0.2	2.9	149	0.02	0.89	0.02	
SEP													
11...	2.5	93	76	76	15	43	0.2	2.7	174	0.04	0.59	0.05	

OHIO RIVER MAIN STEM

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

(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
NOV 1995												
30...	0.3	0.3	0.06	0.07	0.060	<10	--	<1	33	<10	--	<1.0
JAN 1996												
18...	<0.2	0.3	0.09	0.03	0.034	10	<1	<1	24	<1	--	<1.0
FEB												
05...	0.2	0.7	0.23	0.05	0.027	10	<1	<1	29	<1	--	<1.0
MAR												
07...	0.3	0.6	0.21	0.01	0.021	7	<1	<1	32	<1	10	<1.0
APR												
09...	0.3	0.6	0.18	0.04	0.038	6	<1	<1	31	<1	40	<1.0
25...	0.3	0.4	0.10	0.02	0.036	9	<1	<1	26	<1	30	<1.0
MAY												
08...	0.3	0.7	0.23	0.05	0.050	8	<1	<1	31	<1	30	<1.0
23...	0.3	0.5	0.18	0.05	0.042	10	<1	<1	34	<1	30	<1.0
JU												
06...	0.3	0.7	0.21	0.05	0.051	9	<1	1	35	<1	30	<1.0
27...	0.2	0.4	0.12	0.05	0.065	10	<1	<1	38	<1	40	<1.0
JUL												
10...	0.3	0.3	0.05	0.03	0.033	7	<1	<1	39	<1	40	<1.0
AUG												
15...	<0.2	0.4	0.04	0.01	0.019	7	<1	<1	38	<1	50	<1.0
SEP												
11...	0.2	0.4	0.10	0.04	0.023	5	<1	1	33	<1	60	<1.0
	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	
NOV 1995												
30...	<5	<3	2	6	<1	3	<10	<1	<1	<1.0	200	
JAN 1996												
18...	<1	<1	1	28	<1	3	1	2	<1	<1.0	120	
FEB												
05...	1	<1	2	35	<1	9	<1	2	<1	<1.0	120	
MAR												
07...	<1	<1	1	24	<1	2	1	2	<1	<1.0	150	
APR												
09...	<1	<1	2	18	<1	2	1	1	<1	<1.0	130	
25...	<1	<1	2	10	<1	<1	1	2	<1	<1.0	130	
MAY												
08...	<1	<1	2	9	<1	2	1	2	<1	<1.0	140	
23...	<1	<1	2	13	<1	2	2	2	<1	<1.0	130	
JUN												
06...	<1	<1	2	13	<1	<1	2	2	<1	<1.0	140	
27...	<1	<1	2	<3	<1	1	2	2	<1	<1.0	170	
JUL												
10...	1	<1	2	<3	<1	<1	2	1	<1	<1.0	180	
AUG												
15...	2	<1	2	3	<1	<1	3	2	<1	<1.0	180	
SEP												
11...	<1	<1	2	<3	<1	<1	3	<1	<1	<1.0	150	

OHIO RIVER MAIN STEM

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

(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	ALACHLOR, WATER, DISS, REC. (UG/L) (46342)	ACETOCHLOR, WATER, FLTRD REC (UG/L) (49260)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	ALPHA BHC DISSOLVED (UG/L) (34253)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)
NOV 1995 30...	<6	<10	--	--	--	--	--	--	--	--	--
JAN 1996 18...	<6	2	<1.0	2.4	0.30	--	--	--	--	--	--
FEB 05...	<6	1	<1.0	3.0	1.8	<0.002	E0.004	0.072	<0.002	<0.002	<0.004
MAR 07...	<6	<1	<1.0	2.6	1.2	<0.002	<0.002	0.054	<0.002	<0.002	<0.004
APR 09...	<6	1	<1.0	3.3	1.6	0.007	0.006	0.074	<0.002	<0.002	0.007
25...	<6	1	<1.0	3.4	2.4	0.036	0.160	1.80	<0.002	<0.002	0.006
MAY 08...	<6	2	<1.0	3.1	1.9	0.027	0.130	2.25	<0.002	<0.002	0.013
23...	<6	1	<1.0	3.6	1.2	0.020	0.087	0.99	<0.002	E0.003	0.007
JUN 06...	<6	<1	<1.0	3.7	1.2	0.114	0.635	E6.52	<0.002	E0.003	0.005
27...	<6	<1	<1.0	3.2	1.5	0.085	0.260	3.10	<0.002	<0.002	0.004
JUL 10...	<6	1	<1.0	2.9	1.2	0.044	0.094	1.80	<0.002	<0.002	0.005
AUG 15...	<6	1	<1.0	2.4	0.80	0.010	0.009	0.346	<0.002	<0.002	E0.003
SEP 11...	<6	1	<1.0	2.8	1.1	0.005	<0.002	0.196	<0.002	<0.002	E0.003
DATE	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DISSOLVED (UG/L) (39572)	DI- ELDRIN DISSOLVED (UG/L) (39381)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	MALATHION, DISSOLVED (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)	PARATHION, DISSOLVED (UG/L) (39542)
NOV 1995 30...	--	--	--	--	--	--	--	--	--	--	--
JAN 1996 18...	--	--	--	--	--	--	--	--	--	--	--
FEB 05...	0.017	E0.008	<0.002	<0.001	<0.003	<0.004	<0.005	<0.004	0.036	<0.006	<0.004
MAR 07...	0.007	E0.008	<0.002	<0.001	<0.003	<0.004	<0.005	<0.004	0.028	<0.006	<0.004
APR 09...	0.016	E0.019	<0.004	<0.001	<0.003	<0.004	<0.005	<0.004	0.069	<0.006	<0.004
25...	0.076	E0.024	<0.002	<0.001	<0.003	<0.004	<0.005	0.019	0.680	<0.006	<0.004
MAY 08...	0.233	E0.044	0.009	<0.001	<0.003	<0.004	<0.005	0.024	0.663	<0.006	<0.004
23...	0.240	E0.061	0.006	<0.001	<0.003	<0.004	<0.005	0.014	0.440	<0.006	<0.004
JUN 06...	0.708	E0.095	0.006	<0.001	<0.003	<0.004	<0.005	0.037	1.54	<0.006	<0.004
27...	0.850	E0.180	0.005	0.005	<0.003	<0.004	<0.005	0.029	1.10	<0.006	<0.004
JUL 10...	0.330	E0.085	<0.002	<0.001	<0.003	<0.004	<0.005	0.010	0.620	<0.006	<0.004
AUG 15...	0.053	E0.019	E0.004	<0.001	<0.003	<0.004	<0.005	0.006	0.168	<0.006	<0.004
SEP 11...	0.034	E0.023	E0.002	<0.001	<0.003	<0.004	<0.005	<0.004	0.079	<0.006	<0.004

OHIO RIVER MAIN STEM

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

(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)
NOV 1995											
30...	--	--	--	--	--	--	--	--	--	--	--
JAN 1996											
18...	--	--	--	--	--	--	--	--	--	--	--
FEB											
05...	<0.007	E0.005	0.014	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017	<0.004	<0.003
MAR											
07...	<0.007	E0.005	0.012	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017	<0.004	<0.003
APR											
09...	<0.007	E0.010	0.026	<0.002	E0.012	<0.003	<0.002	<0.003	<0.017	<0.004	<0.003
25...	<0.007	E0.005	0.350	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017	<0.004	<0.003
MAY											
08...	<0.007	E0.012	0.338	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017	<0.004	<0.003
23...	<0.007	E0.009	0.100	<0.002	<0.003	E0.008	<0.002	<0.003	<0.017	<0.004	<0.003
JUN											
06...	<0.007	<0.018	0.389	<0.002	E0.004	E0.030	<0.002	<0.003	<0.017	<0.004	<0.003
27...	<0.007	E0.017	0.280	<0.002	<0.003	E0.013	<0.002	<0.003	<0.017	<0.004	<0.003
JUL											
10...	<0.007	E0.015	0.160	<0.002	<0.003	<0.003	E0.002	<0.003	<0.017	<0.004	<0.003
AUG											
15...	<0.007	0.027	0.037	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017	<0.004	<0.003
SEP											
11...	<0.007	E0.016	0.024	<0.002	<0.003	<0.003	<0.002	<0.003	<0.017	<0.004	<0.003
DATE	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)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
NOV 1995											
30...	--	--	--	--	--	--	--	--	--	--	--
JAN 1996											
18...	--	--	--	--	--	--	--	--	--	--	--
FEB											
05...	<0.002	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.004	<0.005	<0.002	<0.003
MAR											
07...	<0.002	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.004	<0.005	<0.002	<0.003
APR											
09...	<0.002	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.004	<0.005	<0.002	<0.003
25...	<0.002	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.004	<0.005	<0.002	<0.003
MAY											
08...	0.008	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.004	<0.005	<0.002	<0.003
23...	E0.003	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.004	<0.005	<0.002	<0.003
JUN											
06...	E0.003	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.004	<0.005	<0.002	<0.003
27...	<0.002	0.007	<0.001	<0.006	<0.004	<0.003	<0.004	0.008	<0.005	<0.002	<0.003
JUL											
10...	<0.002	0.006	<0.001	<0.006	<0.004	<0.003	<0.004	<0.004	<0.005	<0.002	<0.003
AUG											
15...	<0.002	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.004	<0.005	<0.002	<0.003
SEP											
11...	<0.002	<0.002	<0.001	<0.006	<0.004	<0.003	<0.004	<0.004	<0.005	<0.002	<0.003

OHIO RIVER MAIN STEM

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

(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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, SUS-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 1995											
30...	--	--	--	--	--	--	--	--	21	--	93
JAN 1996											
18...	--	--	--	--	--	--	--	--	22	18800	85
FEB											
05...	<0.004	<0.013	E0.008	<0.007	<0.013	<0.001	<0.002	<0.002	99	--	90
MAR											
07...	<0.004	<0.013	E0.009	<0.007	<0.013	<0.001	<0.002	<0.002	129	202000	93
APR											
09...	<0.004	<0.013	<0.010	<0.007	<0.013	<0.004	<0.002	<0.002	129	168000	--
25...	<0.004	<0.013	0.013	<0.007	<0.013	<0.001	<0.002	<0.002	130	194000	93
MAY											
08...	<0.004	<0.013	0.013	<0.007	<0.013	<0.001	<0.002	<0.002	128	261000	87
23...	<0.004	<0.013	0.013	<0.007	<0.013	<0.001	<0.002	<0.002	92	--	94
JUN											
06...	<0.004	<0.013	E0.009	<0.007	<0.013	<0.001	<0.002	<0.002	110	175000	98
27...	<0.004	<0.013	E0.017	<0.007	<0.013	<0.001	<0.002	<0.002	68	69600	98
JUL											
10...	<0.004	<0.013	0.018	<0.007	<0.013	<0.001	<0.002	<0.002	22	9620	98
AUG											
15...	<0.004	<0.013	0.022	<0.007	<0.013	<0.001	<0.002	<0.002	27	10900	94
SEP											
11...	<0.004	<0.013	0.023	<0.007	<0.013	<0.001	<0.002	<0.002	45	21500	92

QUALITY-ASSURANCE DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TUR-BID- ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
MAR 1996												
07...	1250	580000	288	7.5	6.5	67	12.0	97	110	30	7.8	15
MAY												
08...	1235	--	293	7.3	17.0	--	7.9	--	--	--	--	--
08...	1245	--	293	7.3	17.0	57	7.9	--	120	35	8.0	8.0
08...	1250	--	293	7.3	17.0	59	7.9	--	120	35	8.0	8.0
08...	1255	--	293	7.3	17.0	57	7.9	--	120	36	8.0	8.0
23...	1240	--	--	--	--	--	--	--	--	--	--	--
23...	1348	--	--	--	--	--	--	--	--	--	--	--
23...	1350	--	267	7.0	20.5	--	7.1	--	--	--	--	--
23...	1355	--	267	7.0	20.5	69	7.1	--	110	33	7.6	6.9
23...	1600	--	267	7.0	20.5	--	7.1	--	--	--	--	--
JUN												
06...	1250	--	302	7.2	21.0	62	6.6	--	130	36	8.7	7.3
06...	1255	--	302	7.2	21.0	--	6.6	--	--	--	--	--
27...	1312	--	334	7.5	27.0	--	5.9	--	--	--	--	--
AUG												
26...	1145	--	--	--	--	--	--	--	0.022	0.01	0.001	<0.03

OHIO RIVER MAIN STEM

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

(National stream-quality accounting network station)

QUALITY-ASSURANCE DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

	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)	ALKA- LINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	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)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
MAR 1996												
07...	2.2	--	64	--	20	39	0.1	4.9	0.02	1.2	0.06	0.2
MAY												
08...	--	--	70	--	--	--	--	--	--	--	--	--
08...	2.5	--	70	--	12	34	0.2	4.5	0.03	1.4	0.02	0.3
08...	2.6	86	71	70	12	34	0.2	4.6	0.04	1.4	<0.015	0.3
08...	2.5	86	71	70	12	34	0.2	4.6	0.03	1.3	<0.015	0.3
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	68	--	--	--	--	--	--	--	--	--
23...	2.4	--	68	--	10	34	0.2	5.3	0.02	1.1	0.02	0.3
23...	--	83	68	68	--	--	--	--	--	--	--	--
JUN												
06...	2.5	--	78	--	10	39	0.2	5.5	0.02	1.6	0.07	0.2
06...	--	--	77	--	--	--	--	--	--	--	--	--
27...	--	--	95	--	--	--	--	--	--	--	--	--
AUG												
26...	--	--	--	--	--	--	--	<0.02	<0.001	<0.005	<0.002	--
DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	
MAR 1996												
07...	0.8	0.25	<0.01	0.018	7	<1	<1	30	<1	20	<1.0	
MAY												
08...	--	--	--	--	--	--	--	--	--	--	--	
08...	0.6	0.21	0.04	0.049	7	<1	<1	30	<1	30	<1.0	
08...	0.6	0.23	0.05	0.050	6	<1	<1	30	<1	30	<1.0	
08...	0.7	0.23	0.06	0.050	7	<1	<1	31	<1	30	<1.0	
23...	--	--	--	--	--	--	--	--	--	--	--	
23...	--	--	--	--	--	--	--	--	--	--	--	
23...	--	--	--	--	--	--	--	--	--	--	--	
23...	0.5	0.17	0.05	0.043	10	<1	<1	33	<1	40	<1.0	
23...	--	--	--	--	--	--	--	--	--	--	--	
JUN												
06...	0.6	0.19	0.04	0.049	8	<1	<1	35	<1	30	<1.0	
06...	--	--	--	--	--	--	--	--	--	--	--	
27...	--	--	--	--	--	--	--	--	--	--	--	
AUG												
26...	--	--	--	<0.001	<0.3	<0.2	--	<0.2	<0.2	2	<0.3	
DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	
MAR 1996												
07...	<1	<1	2	20	<1	2	1	2	<1	<1.0	140	
MAY												
08...	--	--	--	--	--	--	--	--	--	--	--	
08...	<1	<1	2	7	<1	2	1	2	<1	<1.0	140	
08...	<1	<1	2	8	<1	<1	1	2	<1	<1.0	140	
08...	<1	<1	2	9	<1	<1	1	2	<1	<1.0	140	
23...	--	--	--	--	--	--	--	--	--	--	--	
23...	--	--	--	--	--	--	--	--	--	--	--	
23...	--	--	--	--	--	--	--	--	--	--	--	
23...	<1	<1	2	9	<1	<1	2	2	<1	<1.0	130	
23...	--	--	--	--	--	--	--	--	--	--	--	
JUN												
06...	<1	<1	2	11	<1	<1	1	2	<1	<1.0	140	
06...	--	--	--	--	--	--	--	--	--	--	--	
27...	--	--	--	--	--	--	--	--	--	--	--	
AUG												
26...	<0.2	<0.2	<0.2	<3	<0.3	<0.1	<0.2	<0.5	--	<0.2	<0.1	

OHIO RIVER MAIN STEM

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

(National stream-quality accounting network station)

QUALITY-ASSURANCE DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

[illegible][illegible][illegible]

[illegible]

BAYOU DE CHIEN BASIN

07024000 BAYOU DE CHIEN NEAR CLINTON, KY

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

DRAINAGE AREA.--68.7 mi².

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

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

GAGE.--Water-Stage recorder. Datum of gage is 307.71 ft above sea level. Prior to Aug. 2, 1951, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 17, 18, Nov. 15 to Dec. 3, Jan. 7-9, 12, Jan. 29-Feb. 8, 10-17, 19, 20, 28, Mar. 6-8, April 29, 30, June 2, 3, 11, 25, July 3-7, 9-21, 31, Aug. 1, 9 and Aug. 12 to Sept. 12. Records fair except for periods of estimated record, which are poor. Minimum flow affected by backwater from the Mississippi River.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	24	26	36	43	49	236	82	31	30	317	22
2	15	30	24	77	41	44	77	57	1030	30	63	22
3	27	28	25	65	39	49	59	52	794	29	37	21
4	23	23	24	39	37	40	53	45	78	28	35	21
5	19	22	24	34	36	59	47	49	46	27	32	20
6	18	35	24	32	35	140	43	99	41	29	31	20
7	18	557	24	31	38	100	41	311	40	36	31	22
8	19	93	24	30	41	64	48	157	38	111	31	28
9	18	49	26	30	45	54	43	69	538	56	73	44
10	19	43	43	29	40	51	39	51	1370	42	32	28
11	18	705	24	190	38	48	38	301	585	38	29	24
12	18	105	24	173	36	46	40	99	117	34	29	22
13	18	47	26	65	35	44	58	62	68	32	28	22
14	18	36	28	50	34	42	53	55	58	30	27	21
15	18	27	27	40	33	45	43	56	48	56	26	24
16	21	25	32	34	32	47	36	44	46	34	25	453
17	28	24	31	32	32	46	34	38	46	33	24	83
18	25	24	92	450	40	42	33	33	50	30	24	45
19	21	24	74	195	209	153	33	31	43	33	27	40
20	29	23	42	56	146	79	204	30	39	319	26	39
21	25	22	34	48	70	64	76	29	38	40	25	449
22	21	24	30	44	57	51	69	29	36	34	24	57
23	22	50	28	208	52	45	161	28	37	26	23	34
24	22	44	27	1100	44	43	67	27	68	25	22	30
25	21	36	27	300	41	279	49	26	178	24	21	28
26	26	30	26	99	40	76	55	26	38	23	23	60
27	307	28	26	77	67	53	39	44	33	22	25	304
28	45	26	24	60	199	49	37	36	31	23	25	336
29	25	24	24	57	57	49	969	28	31	43	24	51
30	21	24	24	53	---	44	278	26	30	414	24	35
31	21	---	33	47	---	434	---	27	---	868	23	---
TOTAL	960	2252	967	3781	1657	2429	3058	2047	5626	2599	1206	2405
MEAN	31.0	75.1	31.2	122	57.1	78.4	102	66.0	188	83.8	38.9	80.2
MAX	307	705	92	1100	209	434	969	311	1370	868	317	453
MIN	14	22	24	29	32	40	33	26	30	22	21	20
CFSM	.45	1.09	.45	1.78	.83	1.14	1.48	.96	2.73	1.22	.57	1.17
IN.	.52	1.22	.52	2.05	.90	1.32	1.66	1.11	3.05	1.41	.65	1.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1996, BY WATER YEAR (WY)

MEAN	32.5	82.0	128	156	186	211	138	99.1	68.8	58.5	40.8	35.1
MAX	165	520	557	586	672	1138	335	470	419	397	206	268
(WY)	1985	1958	1991	1950	1989	1975	1970	1978	1976	1976	1977	1977
MIN	7.27	9.41	12.1	12.7	16.2	14.2	18.6	12.1	11.7	10.7	9.43	8.74
(WY)	1944	1944	1944	1944	1941	1941	1986	1969	1952	1943	1953	1941

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1940 - 1996

ANNUAL TOTAL	26652	28987	
ANNUAL MEAN	73.0	79.2	103
HIGHEST ANNUAL MEAN			268
LOWEST ANNUAL MEAN			18.7
HIGHEST DAILY MEAN	1370	1370	7150
LOWEST DAILY MEAN	14	14	4.0
ANNUAL SEVEN-DAY MINIMUM	14	18	4.7
INSTANTANEOUS PEAK FLOW		1610	9460
INSTANTANEOUS PEAK STAGE		14.22	16.39
ANNUAL RUNOFF (CFSM)	1.06	1.15	1.49
ANNUAL RUNOFF (INCHES)	14.43	15.70	20.31
10 PERCENT EXCEEDS	102	154	188
50 PERCENT EXCEEDS	30	36	23
90 PERCENT EXCEEDS	16	23	11

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the U.S. Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. At a few of these stations crest stages are determined from continuous water-stage recorder graphs. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1996

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (ft ³ /s)
BIG SANDY RIVER BASIN							
03208000	Levisa Fork below Fishtrap Dam, near Millard, Ky.	Lat 37°25'33", long 82°24'45", Pike County, Hydrologic Unit 05070202, on right bank, 0.4 mi downstream from Fishtrap Dam, 1.1 mi upstream from Lower Pompey Branch, 1.9 mi northeast of Millard, 2.4 mi upstream from Russell Fork, and at mile 129.6.	392	1939-92†, 1993-96	01-19-96	80.60	5,570
03209300	Russell Fork at Elkhorn City, Ky.	Lat 37°18'14", long 82°20'35", Pike County, Hydrologic Unit 05070202, on left bank 10 ft downstream from steel highway bridge on abandoned section of State Highway 80, at Elkhorn City, 0.9 mi upstream from Elkhorn Creek, and at mile 13.2.	554	1957-60, 1961-92†, 1993-96	01-19-96	11.41	8,470

See footnote at end of table.

Annual maximum discharge at crest-stage partial-record stations during water year 1996--Continued

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Dis- charge (ft ³ /s)
BIG SANDY RIVER BASIN--Continued							
03211500	Johns Creek near Van Lear, Ky.	Lat 37°44'37", long 82°43'27", Floyd County, Hydrologic Unit 05070203, on right bank 100 ft upstream from Long Branch, 0.3 mi upstream from Daniels Creek, 0.7 mi downstream from Dewey Dam, 2.5 mi southeast of Van Lear, and at mile 4.7.	206	1940-92†, 1993-96	05-08-96	13.37	2,680
LITTLE SANDY RIVER BASIN							
03216350	Little Sandy River below Grayson Dam, near Leon, Ky.	Lat 38°15'14", long 82°59'28", Carter County, Hydrologic Unit 05090104, on right bank 0.3 mi downstream from Grayson Dam (new channel), 0.3 mi upstream from Big Sinking Creek, 2.4 mi southwest of Leon, and at mile 50.3.	196	1967-92†, 1993-96	05-20-96	98.28	2,600
LICKING RIVER BASIN							
03252500	South Fork Licking River at Cynthiana, Ky	Lat 38°23'27", long 84°18'11", Harrison County, Hydrologic Unit 05100102, on left bank at downstream side of bridge on State Highway 356 and 36, at Cynthiana, 0.3 mi downstream from Grays Run, in pool formed by old mill dam 2.6 mi downstream, and at mile 49.1.	621	1938-94†, 1995-96	05-16-96	16.16	14,200
GREEN RIVER BASIN							
03306000	Green River near Campbellsville, Ky.	Lat 37°14'25", long 85°20'50", Taylor County, Hydrologic Unit 05110001, on right bank on downstream side of pier 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.	682	1931-32 1964-94†, 1995-96	07-22-96	101.80	4,600

Annual maximum discharge at crest-stage partial-record stations during water year 1996--Continued

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Dis- charge (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†, 1993-96	01-19-96	8.18	2,810
03404820	Laurel River at Municipal Dam, near Corbin, Ky.	Lat 36 58'13", long 84 07'11", Laurel 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†, 1993-96	01-19-96	22.52	2,620

† Operated as a continuous-record gaging station.

Discharge measurements made at special study and miscellaneous sites during water year 1996

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
GREEN RIVER BASIN						
03316000 Mud River	Green River	Lat 37 00' 15", long 86 54' 02", Logan County, at bridge on Highway 106, 2.5 mi northwest of Lewisburg, and 7.5 mi downstream from Motts Lick Creek.	90.5	1940-72, 1978, 1980, 1988, 1990-96	12-07-93b	287b
					6-22-94b	10b
					12-07-95	22.8
					4-11-96	115
					7-18-96	29.9

b Not previously published

WATER RESOURCES DATA - KENTUCKY 1996

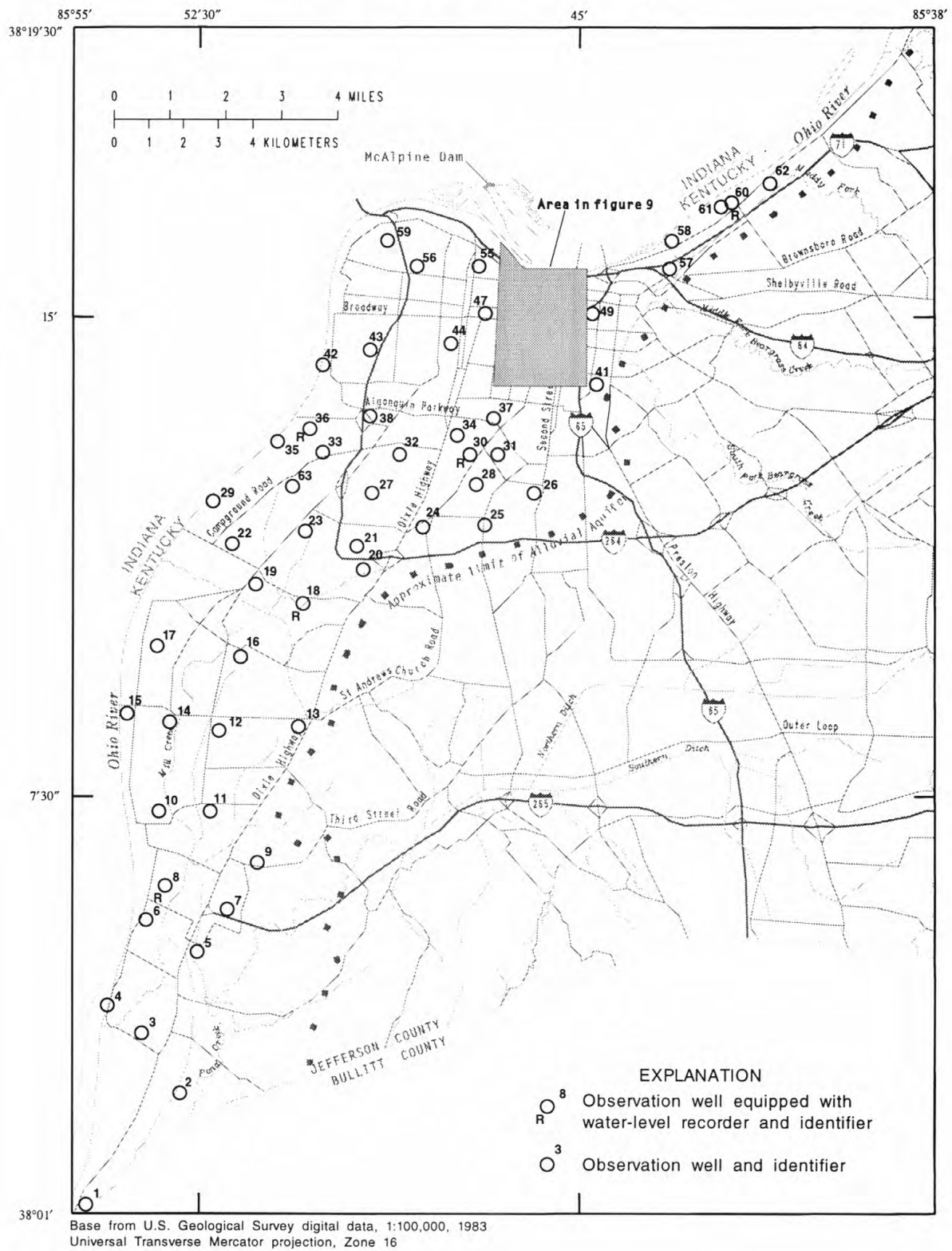


Figure 8. Location of observation wells in Jefferson County.

WATER RESOURCES DATA - KENTUCKY, 1996

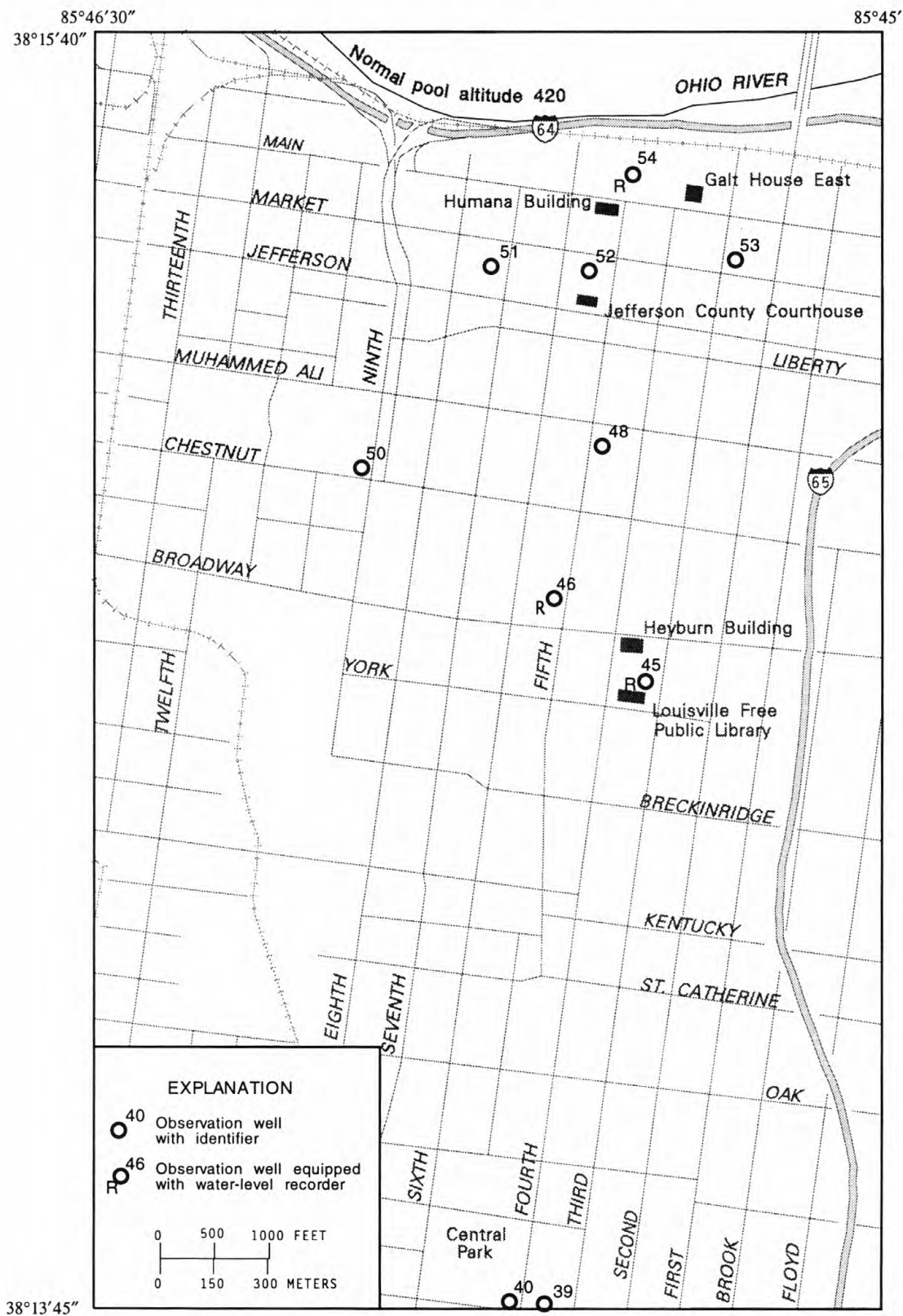


Figure 9. Location of observation wells in downtown Louisville.

GROUND-WATER LEVELS

CALLOWAY COUNTY

363634088191601. Map number 1.

LOCATION.--Lat 36°36'34", long 88°19'16", Hydrologic Unit 06040006, County Code 035, Murray quadrangle, 200 ft southeast of the intersection of 15th and Main Streets, in Murray. Owner: Joe Parks.

AQUIFER.--Sand of McNairy Formation of Late Cretaceous age. Aquifer code: 211MCNR.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 345 ft, screened 290-328, 330-334 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 549.14 ft above sea level. Measuring point: Floor of recorder shelter 4.75 ft above land-surface datum.

REMARKS.--Reported that well was used for several years to dispose of waste motor oil from a gasoline service station.

PERIOD OF RECORD.--March 1948 to September 1983 and October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 123.23 ft below land-surface datum, Mar. 3, 1953; lowest measured, 130.09 ft below land-surface datum, Aug. 8, 1969.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 10, 1995	125.30	Jan. 8, 1996	124.38
Dec. 8, 1995	124.77	Feb. 23, 1996	124.61

CHRISTIAN COUNTY

365142087270401. Map number 2.

LOCATION.--Lat 36°51'42", long 87°27'04", Hydrologic Unit 05130205, County Code 047, Hopkinsville quadrangle, at Western State Hospital, 75 ft west of gravel road, 500 ft south of U.S. Highway 68, 2.0 mi east of Hopkinsville. Owner: State of Kentucky.

AQUIFER.--Ste. Genevieve Limestone of Late Mississippian age. Aquifer code: 333SGVV.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in., depth 85 ft, cased to 10 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is about 550 ft. Measuring point: Floor of shelter 3.06 ft above land-surface datum.

PERIOD OF RECORD.--February 1950 to September 1983 and October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.26 ft below land-surface datum, Feb. 22, 1961, lowest measured, 25.01 ft below land-surface datum, Sept. 25, 1970.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 4, 1995	14.82	Jan. 11, 1996	12.68
Dec. 7, 1995	15.67	Feb. 22, 1996	12.41

DAVISS COUNTY

374638087054101. Map number 3.

LOCATION.--Lat 37°46'38", long 87°05'41", Hydrologic Unit 05140201, County Code 059, Owensboro East quadrangle, at Owensboro Municipal Utilities water treatment plant, 100 ft south of south bank of Ohio River, 0.1 mi northeast of Daviess County High School, 0.3 mi north of U.S. Highway 60, in Owensboro. Owner: Owensboro Municipal Utilities.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 1120TSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 12 in., depth 104 ft, screened 74 to 104 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is about 405 ft. Measuring point: Floor of recorder shelter 4.33 ft above land-surface datum.

REMARKS.--Water level affected by pumping from nearby wells.

PERIOD OF RECORD.--February 1951 to September 1983 and March to September 1990.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 18.16 ft below land-surface datum, May 5, 1983; lowest, 63.21 ft below land-surface datum, Sept. 17, 1970.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 6, 1995	53.79	Jan. 9, 1996	53.62
Dec. 5, 1995	56.00	Feb. 20, 1996	54.94

GROUND-WATER LEVELS

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ELLIOTT COUNTY

380425083091901. Map number 4.

LOCATION.--Lat 38°04'25", long 83°09'19", Hydrologic Unit 05090104, County Code 063, Sandy Hook quadrangle, in a hay field, 100 ft south of a tobacco barn, 250 ft north of State Highway 7, 1.9 mi southwest of Sandy Hook. Owner: Roy Adkins.

AQUIFER.--Lee Formation of Early Pennsylvanian age. Aquifer code: 327LEE.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 5 in., depth 70 ft, length of casing unknown, open hole below casing.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is about 780 ft. Measuring point: Floor of recorder shelter 3.55 ft above land-surface datum.

REMARKS.--Pump test run Oct. 10, 1965. Estimated yield based on recovery, 0.4 gal/min.

PERIOD OF RECORD.--September 1952 to September 1984 and July 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.50 ft below land-surface datum, July 18, 1971; lowest measured, 46.35 ft below land-surface datum, Dec. 17, 1953.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 3, 1995	25.00	Jan. 23, 1996	23.95	Apr. 9, 1996	23.36
Nov. 21, 1995	24.23	Mar. 6, 1996	23.53		

FAYETTE COUNTY

375928084362001. Map number 5.

LOCATION.--Lat 38°59'28", long 84°36'20", Hydrologic Unit 05100205, County Code 067, Nicholasville quadrangle, 50 ft west of a farmhouse, 15 ft east of an old chicken house, 600 ft north of where Keene Road crossed the Fayette-Jessamine County line, 1.2 mi southwest of South Elkhorn. Owner: Donald Todd, formerly M.A. Kehrt.

AQUIFER.--Grier Limestone Member of Lexington Limestone of Middle Ordovician age. Aquifer code: 364GRIR.

WELL CHARACTERISTICS.--Drilled unused artesian and water-table well, diameter 6 in., depth 132 ft, cased to 15 ft, open hole 15 to 132 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is about 940 ft. Measuring point: Floor of recorder shelter 2.75 ft above land-surface datum.

REMARKS.--Lowest water level is a pumping level.

PERIOD OF RECORD.--November 1952 to September 1984 and June 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.67 ft below land-surface datum, Jan. 11, 1974; lowest measured, 48.56 ft below land-surface datum, Mar. 12, 1954.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 11, 1995	12.42	Jan. 11, 1996	12.15	Mar. 28, 1996	10.72
Nov. 30, 1995	12.34	Feb. 16, 1996	12.52		

FRANKLIN COUNTY

382031084553901. Harp Road Test Well. Map number 6.

LOCATION.--Lat 38°20'31", long 84°55'39", Hydrologic Unit 05100205, County Code 073, Polsgrove quadrangle, in a pasture at an old farmhouse site, 50 ft north of Harp Road, 2.3 mi northeast of junction of Harp Road and U.S. Highway 421, 2.3 mi southwest of Polsgrove. Owner: Franklin County.

AQUIFER.--Kope and Clays Ferry Formations of Late Ordovician age (previously published as Lexington Limestone of Middle Ordovician age). Aquifer code: 361KOCL (previously published as 364LXNG).

WELL CHARACTERISTICS.--Drilled unused artesian and water-table test well, diameter 6 in., depth 450 ft, cased to 15 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is about 890 ft. Measuring point: Top of pipe plug.50 ft above land-surface datum.

PERIOD OF RECORD.--August 1973 to January 1983 and October 1988 to current year. August 1973 to September 1976 published in hydrograph form and on file at district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.87 ft below land-surface datum, Sept. 14, 1979; lowest measured, 119.82 ft below land-surface datum, Sept. 12, 1973.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 4, 1995	42.70	Jan. 10, 1996	35.50	Mar. 26, 1996	32.93
Nov. 29, 1995	38.27	Feb. 15, 1996	39.50		

GROUND-WATER LEVELS

GRAVES COUNTY

365210088391301. Map number 7.

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: 124CLBR.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in., depth 106 ft, cased to 85 ft, screened 85-105 ft.

INSTRUMENTATION.--ADR recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 405.65 ft above sea level. 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.

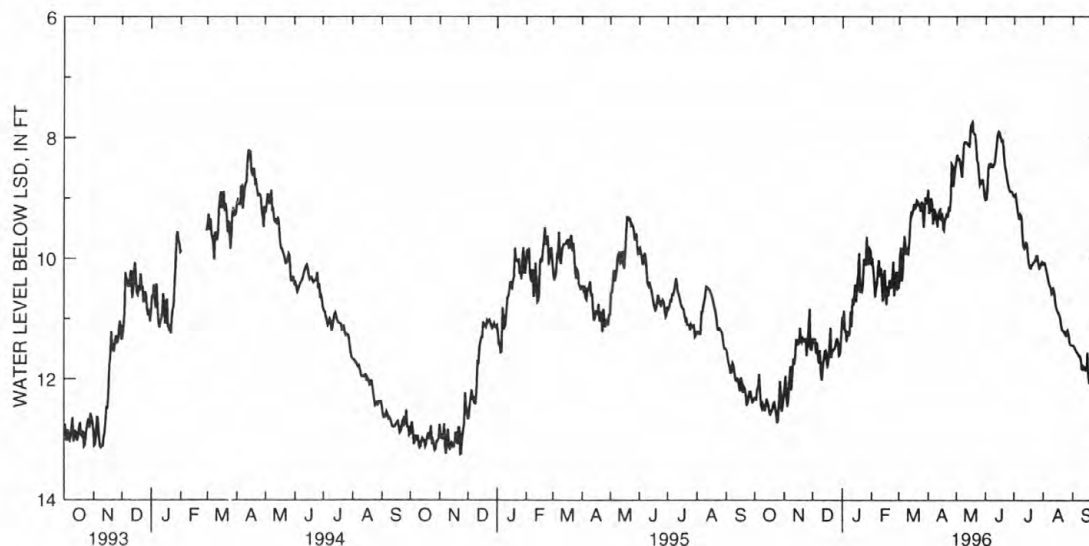
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.75 ft below land-surface datum, May 17, 1996; lowest measured, 19.24 ft below land-surface datum, Jan. 10, 1975.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.31	12.06	11.32	11.03	10.04	10.01	9.26	8.28	9.02	8.98	10.07	11.44
2	12.36	11.95	11.38	10.87	10.22	9.82	9.19	8.34	8.86	8.95	10.08	11.47
3	12.16	12.33	11.36	11.22	10.43	10.38	9.00	8.35	8.50	9.09	10.16	11.50
4	12.16	12.46	11.58	11.18	10.64	10.26	9.08	8.43	8.43	9.22	10.24	11.54
5	11.92	12.33	11.39	11.38	10.47	9.84	9.43	8.53	8.50	9.31	10.31	11.56
6	12.16	12.01	11.66	11.25	10.43	9.63	9.26	8.66	8.44	9.36	10.41	11.58
7	12.44	11.79	11.74	11.20	10.13	9.81	9.21	8.39	8.46	9.28	10.45	11.62
8	12.49	12.19	11.52	11.28	10.03	9.94	9.24	8.12	8.48	9.31	10.49	11.62
9	12.42	11.93	11.93	10.88	10.30	9.90	9.40	8.07	8.45	9.56	10.59	11.69
10	12.47	11.66	12.02	11.14	10.16	9.92	9.48	8.07	8.42	9.80	10.58	11.83
11	12.53	11.76	11.81	10.67	10.44	9.73	9.30	8.08	8.26	9.83	10.52	11.84
12	12.47	11.65	11.67	10.78	10.71	9.40	9.21	8.11	8.11	9.77	10.57	11.80
13	12.33	11.33	11.54	10.58	10.48	9.22	9.19	8.10	7.94	9.74	10.74	11.83
14	12.38	11.44	11.53	10.43	10.19	9.26	9.37	8.16	7.90	9.76	10.83	11.85
15	12.44	11.39	11.63	10.72	10.49	9.20	9.25	7.83	7.92	9.97	10.87	11.84
16	12.57	11.43	11.82	10.43	10.77	9.09	9.52	7.78	8.00	10.10	10.90	11.56
17	12.59	11.15	11.70	10.28	10.46	9.17	9.54	7.75	8.05	10.15	10.93	11.95
18	12.54	11.34	11.44	9.91	10.62	9.16	9.37	7.90	8.04	10.16	10.99	12.07
19	12.50	11.39	11.15	10.57	10.36	9.04	9.34	7.94	8.14	10.11	11.11	11.98
20	12.40	11.33	11.65	10.53	10.49	9.06	9.25	7.95	8.35	10.10	11.17	11.86
21	12.39	11.37	11.52	10.55	10.48	9.11	9.32	8.13	8.50	10.06	11.20	11.70
22	12.50	11.38	11.53	10.40	10.31	9.14	9.15	8.37	8.58	10.06	11.20	11.80
23	12.58	11.32	11.51	10.01	10.05	9.22	9.22	8.42	8.70	10.01	11.25	11.85
24	12.73	11.62	11.47	10.08	10.62	9.06	9.02	8.62	8.79	9.96	11.27	11.87
25	12.69	11.42	11.37	10.09	10.46	9.14	8.44	8.78	8.85	9.96	11.21	11.87
26	12.40	11.16	11.32	9.64	10.30	9.49	8.47	8.75	8.89	10.10	11.19	11.68
27	12.03	10.84	11.41	10.09	10.22	9.32	8.81	8.74	8.89	10.16	11.26	11.69
28	12.28	11.49	11.61	10.09	10.50	8.99	8.65	8.69	8.90	10.14	11.40	11.77
29	12.54	11.53	11.59	9.84	10.48	9.10	8.50	8.81	8.94	10.09	11.43	11.76
30	12.41	11.39	11.37	9.87	---	9.02	8.39	8.98	8.97	10.06	11.44	11.76
31	12.26	---	11.01	10.07	---	8.86	---	9.03	---	10.09	11.44	---
MAX	12.73	12.46	12.02	11.38	10.77	10.38	9.54	9.03	9.02	10.16	11.44	12.07
MIN	11.92	10.84	11.01	9.64	10.03	8.86	8.39	7.75	7.90	8.95	10.07	11.44

WTR YR 1996 HIGH 7.75 LOW 12.73



GROUND-WATER LEVELS

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GRAYSON COUNTY

372822086165801. Map number 8.

LOCATION.--Lat 37°28'22", long 86°16'58", Hydrologic Unit 05110004, County Code 085, Leitchfield quadrangle, at the end of a city park road, 500 ft north of a dam and lake, 1,000 ft northeast of the old city water treatment plant, 0.8 mi southeast of Grayson County Courthouse, in Leitchfield. Owner: City of Leitchfield.

AQUIFER.--Hardinsburg Sandstone of Late Mississippian age. Aquifer code: 332HDBG.

WELL CHARACTERISTICS.--Drilled unused artesian and water-table well, diameter 7 in., depth 384 ft, length casing unknown.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is 660 ft. Measuring point: Top of pipe flange 5.12 ft above land-surface datum.

PERIOD OF RECORD.--December 1979 to September 1983 and October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.14 ft below land-surface datum, Mar. 17, 1994; lowest measured, 84.65 ft below land-surface datum, June 6, 1990.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 1, 1995	75.03	Feb. 23, 1996	75.35
Jan. 29, 1996	74.27	Mar. 25, 1996	75.68

GROUND-WATER LEVELS

HARDIN COUNTY

374035085525401. Local number OW-1-82, map number 9.

LOCATION.--Lat 37°40'35", long 85°52'54", Hydrologic Unit 05110001, County Code 093, Cecilia quadrangle, 0.30 mi west of Elizabethtown Water Plant, 0.20 mi west on gravel road to sewage lagoon parallel to RR tracks, 100 ft south of RR tracks, 75 ft east of electric power tower, 10 ft north of gravel road. Owner: City of Elizabethtown.

AQUIFER.--St. Louis Limestone of Late Mississippian age. Aquifer Code: 333STLS.

WELL CHARACTERISTICS.--Drilled unused artesian and water table well, diameter 6 in., depth 120 ft, with 14 ft of 8 in. surface casing.

INSTRUMENTATION.--Graphical recorder--continuous.

DATUM.--Elevation of land-surface datum is 692.25 ft above sea level. Measuring point: Floor of shelter, 1.4 ft above land-surface datum.

REMARKS.--Water levels affected by pumping from nearby wells and proximity to RR tracks.

PERIOD OF RECORD.--September 1982 to current year.

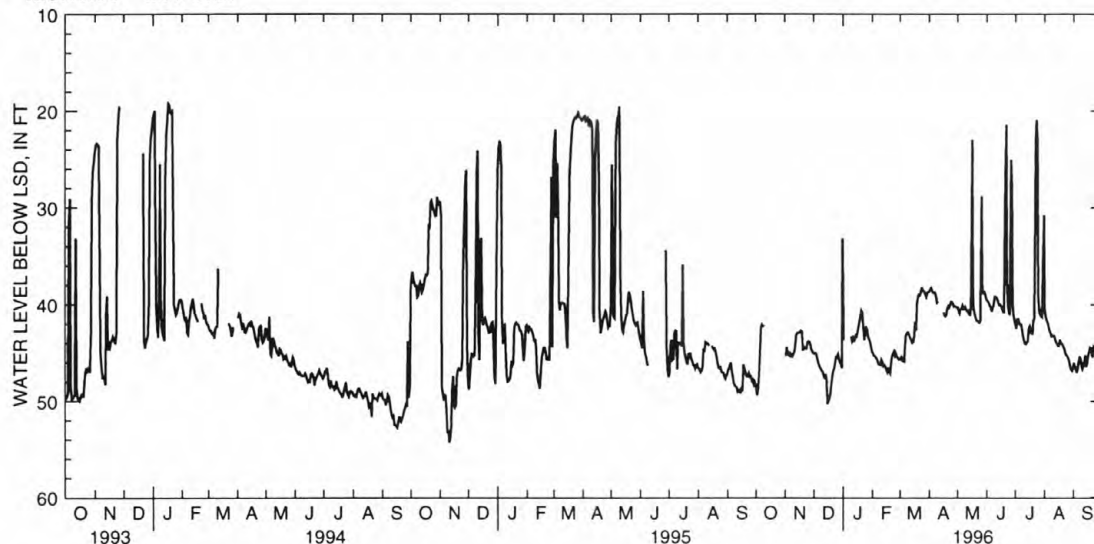
EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 8.99 ft below land surface datum, May 3, 1983; lowest, 78.77 ft below land-surface datum, July 14, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49.04	45.30	45.05	43.66	45.04	45.62	38.66	40.25	39.55	42.11	40.47	46.03
2	49.38	44.39	44.99	---	45.29	45.46	38.43	40.62	39.66	42.48	41.26	46.40
3	48.72	45.05	45.09	---	45.32	45.80	38.27	40.88	39.89	41.51	41.65	46.70
4	46.90	45.20	45.55	---	45.45	45.83	38.55	40.47	40.12	41.50	41.84	47.03
5	44.66	44.85	45.94	---	45.56	45.90	38.75	40.43	40.31	41.89	42.29	46.62
6	42.35	45.44	46.26	---	45.80	44.54	38.79	40.11	40.72	42.08	42.70	45.81
7	42.05	45.19	46.52	---	46.14	43.19	38.76	40.46	40.24	42.06	42.94	45.46
8	42.20	45.33	46.64	---	46.16	43.00	39.19	40.42	40.07	42.64	43.30	45.57
9	42.28	45.07	46.89	43.30	46.22	42.87	39.78	40.24	39.18	43.24	43.29	46.37
10	---	44.79	46.94	43.77	45.68	42.91	39.70	40.54	39.17	43.68	43.20	46.65
11	---	43.91	47.48	43.46	45.90	43.24	---	40.68	39.26	44.04	43.25	46.35
12	---	43.14	47.57	43.84	46.32	43.49	---	40.61	39.46	44.10	43.62	45.88
13	---	42.97	47.17	43.41	46.22	43.71	---	40.98	39.87	43.87	43.95	45.27
14	---	42.94	47.74	43.18	46.39	43.95	---	41.04	40.04	43.81	44.09	46.42
15	---	42.87	50.24	43.28	46.72	43.91	---	40.16	39.99	42.45	44.26	46.04
16	---	42.88	49.99	42.78	46.94	43.27	40.80	22.96	40.14	42.23	44.29	45.24
17	---	42.70	49.69	42.31	46.49	41.80	41.08	38.20	40.48	42.89	43.63	44.87
18	---	42.76	49.30	41.70	46.89	42.66	41.18	40.50	40.74	42.87	43.95	44.46
19	---	44.73	48.24	41.11	47.10	39.83	41.07	40.90	40.77	43.10	44.05	44.52
20	---	44.41	47.42	40.60	46.08	39.20	40.36	41.35	26.59	41.61	44.17	45.24
21	---	44.44	46.87	40.78	45.36	38.96	40.15	41.63	21.41	41.51	44.38	45.43
22	---	44.60	46.60	42.41	45.04	39.03	40.29	41.68	37.56	22.97	44.61	44.39
23	---	44.59	45.99	43.66	44.87	38.72	39.99	41.80	40.07	20.93	45.11	44.55
24	---	43.91	45.38	42.47	45.22	38.19	39.69	41.86	40.75	23.14	45.23	44.50
25	---	43.78	45.35	42.34	45.01	38.54	39.72	41.72	41.09	39.09	45.34	45.57
26	---	43.85	45.12	42.55	45.28	38.59	39.94	28.83	25.01	40.70	45.56	45.21
27	---	44.09	45.68	43.39	45.47	38.71	40.20	38.88	27.81	40.99	45.91	44.39
28	---	44.68	45.97	43.57	45.63	38.97	40.13	38.59	40.01	41.18	46.50	42.00
29	---	44.79	46.11	43.96	45.70	39.20	40.22	38.62	41.05	41.28	46.73	41.16
30	---	45.02	46.54	44.39	---	38.74	40.27	38.84	41.61	35.37	46.85	41.06
31	---	---	33.20	44.88	---	38.68	---	39.37	---	30.78	46.54	---
MAX	---	45.44	50.24	---	47.10	45.90	---	41.86	41.61	44.10	46.85	47.03
MIN	---	42.70	33.20	---	44.87	38.19	---	22.96	21.41	20.93	40.47	41.06

WTR YR 1996 HIGH 20.93 LOW 50.24



GROUND-WATER LEVELS

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HARDIN COUNTY

374046085523501. Local number OW-1-81, map number 9.

LOCATION.--Lat 37°40'46", long 85°52'35", Hydrologic Unit 05110001, County Code 093, Cecilia quadrangle, at Elizabethtown Water Plant, 300 ft south of blue water tank, 25 ft east of engineer's office, next to gravel driveway. Owner: City of Elizabethtown.

AQUIFER.--St. Louis Limestone of Late Mississippian age. Aquifer Code: 333STLS.

WELL CHARACTERISTICS.--Drilled unused artesian and water table well, diameter 6 in., depth 100 ft, with 6 ft of 6 in. surface casing.

INSTRUMENTATION.--Graphical recorder--continuous.

DATUM.--Elevation of land-surface datum is 685.89 ft above sea level. Measuring point: Floor of shelter, 1.9 ft above land-surface datum.

REMARKS.--Water levels affected by pumping from nearby wells.

PERIOD OF RECORD.--September 1982 to current year.

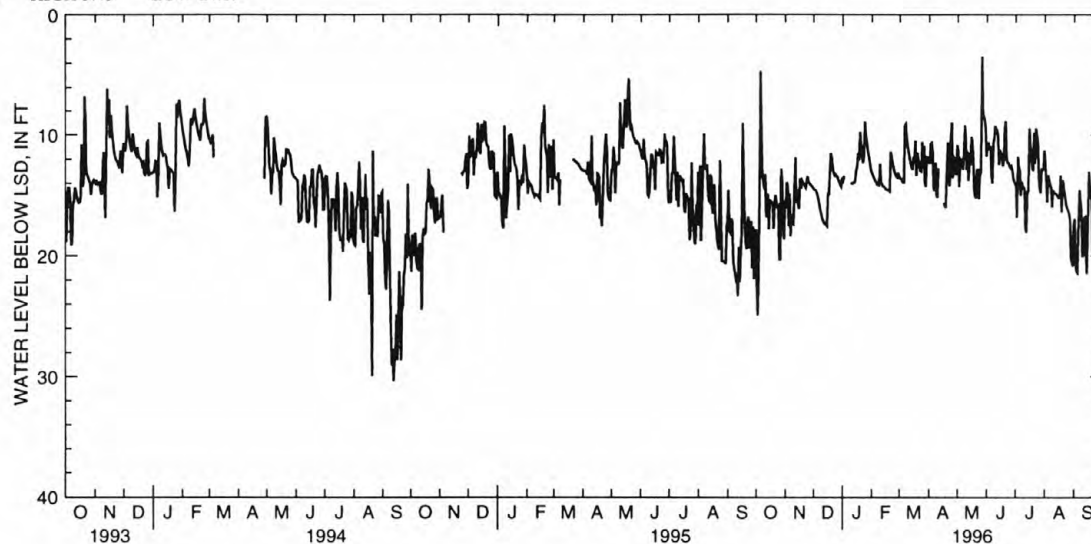
EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 3.41 ft below land surface datum, Feb. 21, 1993; lowest, 49.47 ft below land-surface datum, Oct. 8, 1987.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.61	15.82	14.52	13.77	13.27	13.61	12.37	11.34	10.74	14.16	12.39	16.95
2	24.89	13.94	14.56	13.40	13.49	13.61	10.74	14.29	10.70	16.82	13.83	20.69
3	21.72	14.16	14.59	---	13.66	13.80	10.65	11.98	11.20	11.80	15.58	21.29
4	15.08	17.52	14.76	---	13.82	13.95	11.44	12.10	10.91	12.76	13.33	21.39
5	4.64	14.88	15.04	---	13.88	13.96	14.32	12.24	13.35	12.93	13.73	17.40
6	9.85	18.34	15.39	---	14.12	9.25	14.62	12.85	14.00	15.02	14.12	14.54
7	13.39	16.59	15.87	---	14.14	9.11	12.31	10.89	10.70	13.85	14.34	15.37
8	13.84	17.13	16.33	---	14.18	10.21	14.96	9.20	10.28	14.25	15.97	16.15
9	14.51	17.28	16.56	14.00	12.38	10.96	15.20	10.09	9.26	14.30	14.54	20.01
10	13.26	14.54	16.99	14.02	13.98	11.37	12.75	12.88	9.60	14.46	14.77	20.02
11	16.79	11.87	17.14	14.04	14.04	11.90	---	11.38	9.60	17.77	14.82	16.86
12	15.98	15.63	17.33	13.96	14.29	12.31	---	13.79	10.15	18.03	14.86	16.79
13	14.90	14.57	17.32	13.96	14.28	12.65	---	12.12	12.44	14.70	14.95	19.69
14	17.80	15.64	17.44	13.75	14.40	12.87	---	12.24	11.23	14.66	15.08	21.45
15	15.43	16.10	17.53	12.91	14.50	11.87	---	10.14	11.50	9.45	15.21	17.23
16	15.47	13.61	14.88	12.57	14.52	11.87	15.63	10.71	11.76	10.86	15.19	13.03
17	15.60	14.45	14.89	11.54	14.57	10.46	15.94	12.25	12.56	11.68	13.35	14.11
18	15.68	13.77	12.87	12.08	14.59	13.37	15.95	14.49	12.11	12.65	16.38	14.63
19	17.72	13.96	11.50	9.78	14.67	11.48	13.04	15.07	9.37	12.95	13.76	15.55
20	15.52	14.09	12.00	10.90	11.40	12.05	10.61	15.23	8.84	9.80	13.95	19.56
21	15.01	14.20	12.80	11.59	11.87	12.53	13.49	12.89	11.79	12.35	14.65	19.89
22	15.72	14.35	13.18	12.30	12.39	12.98	14.23	12.88	12.26	9.46	15.16	14.77
23	15.96	13.86	13.35	11.77	12.73	13.04	10.36	15.32	12.31	10.04	15.82	15.38
24	15.86	13.44	13.26	8.91	13.07	10.60	8.99	13.27	12.57	10.46	16.07	17.27
25	20.28	13.90	13.39	10.10	13.23	12.74	13.55	13.10	12.71	13.54	16.26	19.45
26	20.29	14.00	13.48	10.63	13.43	10.92	13.09	3.45	12.58	14.49	16.48	16.55
27	12.82	14.12	13.71	11.26	13.50	13.86	11.90	8.34	12.92	14.79	17.00	11.94
28	13.96	14.19	13.93	11.73	13.14	14.29	12.03	8.49	13.64	12.83	20.19	9.81
29	16.91	14.29	14.12	12.25	13.42	11.74	13.29	8.73	13.83	12.87	20.53	11.57
30	18.61	14.40	14.27	12.75	---	12.05	10.83	9.51	14.01	12.76	20.83	12.53
31	15.70	---	13.54	13.10	---	12.11	---	11.76	---	11.25	17.53	---
MAX	24.89	18.34	17.53	---	14.67	14.29	---	15.32	14.01	18.03	20.83	21.45
MIN	4.64	11.87	11.50	---	11.40	9.11	---	3.45	8.84	9.45	12.39	9.81

WTR YR 1996 HIGH 3.45 LOW 24.89



GROUND-WATER LEVELS

HENDERSON COUNTY

374441087421001. Map number 10.

LOCATION.--Lat 37°44'41", long 87°42'10", Hydrologic Unit 05140202, County Code 101, Poole quadrangle, in a vacant lot, 30 ft north of a gravel street, 100 ft south of U.S. Highway 60, near the center of Corydon. Owner: Town of Corydon.

AQUIFER.--Sturgis Formation of Late Pennsylvanian and early Permian age. Aquifer code: 321STRG. (Previously published as Lisman Formation of Late Pennsylvanian age. Aquifer Code: 321LSMN).

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 157 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is about 435 ft. Measuring point: Floor of recorder shelter, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--March 1952 to August 1983 and June 1988 to current year. March 1952 to September 1976 published in hydrograph form and on file at district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 60.21 ft below land-surface datum, July 11, 1995; lowest measured, 119.83 ft below land-surface datum, Nov. 24, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 12, 1995	60.86	Jan. 12, 1996	61.49
Dec. 12, 1995	61.56	Mar. 19, 1996	61.09

JEFFERSON COUNTY

380122085545001. Local number 80-1, map number 1.

LOCATION.--Lat 38°01'22", long 85°54'50", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, 12 ft west of an old private driveway, 40 ft north of Kentucky Highway 44, 0.25 mi southeast of junction of U.S. Highway 31W and Kentucky Highway 44, 0.9 mi southwest of Kosmosdale. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 100 ft, screened 93.0-95.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 431.64 ft above sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--May 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.32 ft below land-surface datum, May 22, 1996; lowest measured, 42.66 ft below land-surface datum, Oct. 19, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 27, 1995	41.08	May 22, 1996	23.32

380252085530601. Local number 79-3, map number 2.

LOCATION.--Lat 38°02'52", long 85°53'06", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, on the south side of the first building inside the gate at Old Boone Distillery, at the south end of Bohannon Avenue, 0.9 mi south of Pendleton Road, 1.5 mi northeast of Kosmosdale. Owner: Ronald Clark.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled used water-table well, diameter 12 in., depth 90 ft cased and screened.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 440.75 ft above sea level. Measuring point: Top of metal well cover, 0.70 ft above land-surface datum.

REMARKS.--Water levels affected by pumping.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.08 ft below land-surface datum, May 8, 1991; lowest measured, 40.75 ft below land-surface datum, Oct. 18, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 27, 1995	35.51	May 22, 1996	32.81

GROUND-WATER LEVELS

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JEFFERSON COUNTY

380341085534501. Local number 83-1, map number 3.

LOCATION.--Lat 38°03'41", long 85°53'45", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, across street from 135111 Wilken Way, at east edge of Watson Lane Elementary School playground, 8 ft west of blacktop pavement, 9 ft east of a powerline pole, 2 mi north of Kosmosdale, in Meadow Lawn subdivision. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 64 ft, screened 62-64 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 441.25 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--March 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.13 ft below land-surface datum, May 8, 1991; lowest measured, 44.68 ft below land-surface datum, Oct. 18, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 27, 1995	42.40	May 20, 1996	36.97

380423085541501. Local number, Genewien number 2, map number 4.

LOCATION.--Lat 38°04'23", long 85°54'15", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, 31 ft south of Louisville Gas & Electric power line pole number 47, 33 ft west of center line of Cane Run Road, 0.7 mi south of Orell Road, 1.5 mi north of Louisville Gas & Electric Mill Creek Generating Plant, 2.5 mi north of Kosmosdale. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 65 ft, screened 63-65 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 431.49 ft above sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--April 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.85 ft below land-surface datum, May 22, 1996; lowest measured, 44.32 ft below land-surface datum, Oct. 19, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 27, 1995	43.03	May 22, 1996	10.85

380458085523201. Local number 86-4, map number 5.

LOCATION.--Lat 38°04'58", long 85°52'32", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, southeast of the first 90° curve on Deering Road off of Dixie Highway, 26' north of ash tree, on east bank of Madora Br. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in., depth 45.4 ft, screened 43-45 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 437.71 ft above sea level. Measuring point: Top of casing at ground level.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.80 ft below land-surface datum, May 8, 1991; lowest measured, 31.60 ft below land-surface datum, Oct. 18, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 27, 1995	29.15	May 22, 1996	27.90

GROUND-WATER LEVELS

JEFFERSON COUNTY

380517085535201. Local number 77-1, map number 6.

LOCATION.--Lat 38°05'17", long 85°53'52", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, inside fenced area at southwest Jefferson County sewage pumping station, 125 ft east of the center line of Lower River Road, 0.4 mi north of Orell Road, 0.2 mi east of Ohio River, and 1.5 mi southwest of Valley Station. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in., depth 83.2 ft, screened 80.2-83.2 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 444.96 ft above sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--October 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.62 ft below land-surface datum, May 22, 1996; lowest measured, 57.75 ft below land-surface datum, Nov. 10, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 27, 1996	54.63	May 22, 1996	33.62

380532085515301. Local number 51-5-2, (76-1), map number 7.

LOCATION.--Lat 38°05'32", long 85°51'53", Hydrologic Unit 05140102, County Code 111, Valley Station quadrangle, in back yard at 11212 Deering Road in Valley Station. Owner: Jim Robinson.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 88 ft, screened 85-88 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 458.24 ft above sea level. Measuring point: Top of casing, 0.30 ft above land-surface datum.

REMARKS.--Water-level elevations previously published referenced to sea level.

PERIOD OF RECORD.--May 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.03 ft below land-surface datum, June 24, 1980; lowest measured, 46.73 ft above land-surface datum, Oct. 31, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 27, 1995	43.70	May 22, 1996	43.50

GROUND-WATER LEVELS

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JEFFERSON COUNTY

380606085531301. Local number 53-6-1, (RR-46), map number 8.

LOCATION.--Lat 38°06'06", long 85°53'13", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, at entrance to Sun Valley Park, 20 ft south of Bethany Lane, 0.2 mi east of Lower River Road, in Valley Station. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 92 ft, screened 88-90 ft.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 433.89 ft above sea level. Measuring point: Floor of recorder shelter, 2.93 ft above land-surface datum.

PERIOD OF RECORD.--July 1945 to current year.

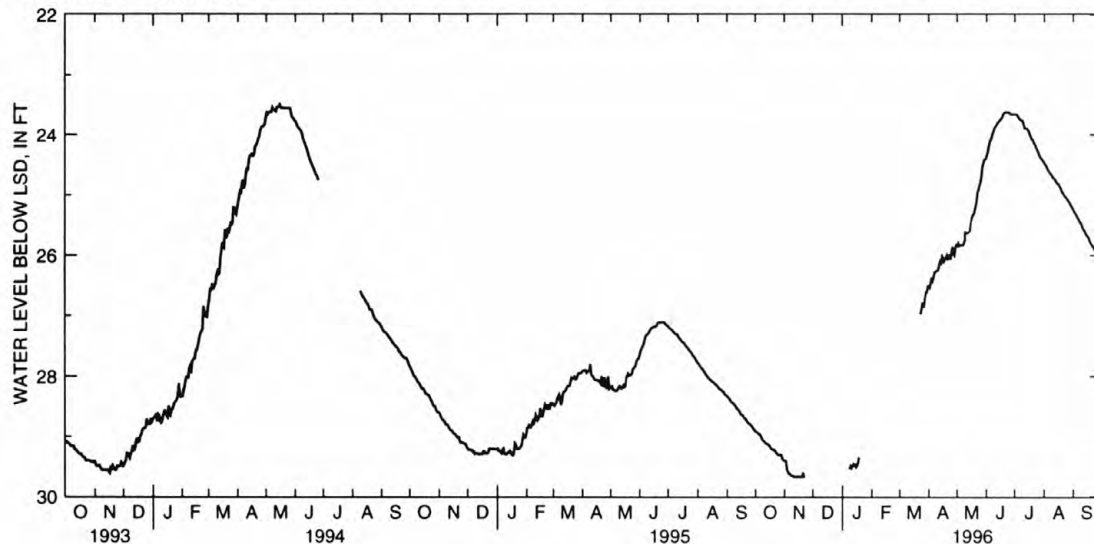
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 21.14 ft below land-surface datum, May 19, 1975; lowest, 40.87 ft below land-surface datum, Feb. 19, 1961.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.92	29.40	---	---	---	---	26.51	25.84	24.33	23.65	24.48	25.26
2	28.93	29.41	---	---	---	---	26.53	25.80	24.26	23.65	24.50	25.29
3	28.94	29.55	---	---	---	---	26.45	25.84	24.18	23.66	24.53	25.31
4	28.96	29.58	---	---	---	---	26.37	25.83	24.10	23.70	24.57	25.34
5	28.96	29.62	---	---	---	---	26.42	25.83	24.09	23.72	24.60	25.37
6	28.99	29.62	---	---	---	---	26.36	25.83	24.03	23.74	24.62	25.40
7	29.03	29.64	---	---	---	---	26.29	25.83	23.97	23.75	24.64	25.43
8	29.06	29.65	---	29.54	---	---	26.27	25.79	23.93	23.75	24.66	25.46
9	29.07	29.65	---	29.49	---	---	26.26	25.75	23.88	23.78	24.69	25.48
10	29.09	29.66	---	29.52	---	---	26.26	25.72	23.86	23.84	24.71	25.52
11	29.10	29.67	---	29.49	---	---	26.23	25.63	23.83	23.89	24.72	25.56
12	29.12	29.67	---	29.46	---	---	26.15	25.63	23.80	23.89	24.74	25.58
13	29.12	29.67	---	29.48	---	---	26.09	25.60	23.78	23.89	24.77	25.61
14	29.13	29.67	---	29.47	---	---	26.12	25.59	23.76	23.91	24.80	25.65
15	29.15	29.66	---	29.51	---	---	26.02	25.43	23.74	23.94	24.81	25.67
16	29.17	29.67	---	29.48	---	---	26.05	25.39	23.72	23.99	24.83	25.69
17	29.20	29.67	---	29.43	---	---	26.10	25.34	23.70	24.03	24.86	25.72
18	29.21	29.67	---	29.34	---	---	26.07	25.32	23.65	24.07	24.89	25.77
19	29.22	29.67	---	---	---	---	26.04	25.28	23.63	24.08	24.93	25.80
20	29.22	29.60	---	---	---	---	26.00	25.19	23.62	24.11	24.96	25.82
21	29.23	29.68	---	---	---	---	26.06	25.13	23.62	24.15	24.98	25.84
22	29.26	---	---	---	---	---	26.05	24.96	23.62	24.17	25.01	25.86
23	29.28	---	---	---	---	26.97	25.98	24.91	23.62	24.22	25.03	25.89
24	29.29	---	---	---	---	26.89	26.06	24.84	23.62	24.25	25.05	25.92
25	29.31	---	---	---	---	26.78	25.91	24.79	23.63	24.29	25.07	25.95
26	29.31	---	---	---	---	26.84	25.86	24.69	23.65	24.33	25.10	25.96
27	29.30	---	---	---	---	26.84	25.98	24.54	23.65	24.37	25.12	25.97
28	29.31	---	---	---	---	26.70	26.00	24.47	23.65	24.39	25.15	25.99
29	29.37	---	---	---	---	26.61	25.88	24.42	23.65	24.41	25.18	26.03
30	29.39	---	---	---	---	26.61	25.83	24.41	23.65	24.43	25.21	26.06
31	29.40	---	---	---	---	26.51	---	24.39	---	24.45	25.23	---
MAX	29.40	---	---	---	---	---	26.53	25.84	24.33	24.45	25.23	26.06
MIN	28.92	---	---	---	---	---	25.83	24.39	23.62	23.65	24.48	25.26

WTR YR 1996 HIGH 23.62 LOW 29.68



GROUND-WATER LEVELS

JEFFERSON COUNTY

380619085512301. Local number 86-3, map number 9.

LOCATION.--Lat 38° 06' 19", long 85° 51' 23", Hydrologic Unit 05140101, County Code 111, Valley Station quadrangle, northwest side of Valley Station and Grafton Hall Roads, 21.0 ft northwest of north corner of drain, and 17.4 ft northeast of telephone pole. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in., depth 55 ft, screened 52-55 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 455.03 ft above sea level. Measuring point: Top of casing, 0.20 ft above land-surface datum.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.10 ft below land-surface datum, Nov. 1, 1991; lowest measured, 38.90 ft below land-surface datum, Oct. 18, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 27, 1995	36.61	May 22, 1996	36.60

380709085531101. Local number C-5-m, map number 10.

LOCATION.--Lat 38° 07' 09", long 85° 53' 11", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, 3 ft west of a gravel field road, 20 ft west of west bank of Mill Creek, 550 ft northwest of Johnstontown Road, in Louisville. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 51.5 ft, screened 48.5-51.5 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 427.1 ft above sea level. Measuring point: Top edge of metal well cover, at land-surface datum.

REMARKS.--EPA, Mill Creek EIS test well.

PERIOD OF RECORD.--October 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.55 ft below land-surface datum, May 7, 1991; lowest measured, 19.95 ft below land-surface datum, Oct. 19, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 27, 1995	18.40	May 22, 1996	15.95

380716085521801. Local number 52-7-2, (RR-47), map number 11.

LOCATION.--Lat 38° 07' 16", long 85° 52' 18", Hydrologic Unit 05140101, County Code 111, Valley Station quadrangle, at 5510 Johnstontown Road, 0.9 mi west of junction of Dixie Highway and Johnstontown Road, on the south shoulder of Johnstontown Road, in Valley Station. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 103 ft, screened 101.5-103.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 449.91 ft above sea level. Measuring point: Top of plug, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--July 1945 to current year. July 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.56 ft below land-surface datum, Apr. 16, 1980; lowest measured, 42.20 ft below land-surface datum, Mar. 27, 1961.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 27, 1995	33.91	May 22, 1996	33.32

GROUND-WATER LEVELS

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JEFFERSON COUNTY

380816085520701. Local number 52-8-1, map number 12.

LOCATION.--Lat 38° 08' 16", long 85° 52' 07", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, between the house and a tool shed at a vegetable farm, 0.5 mi south of Greenwood Road, 0.1 mi west of Canna Road, in Louisville. Owner: Anna Dohn.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 30 in., depth 70 ft, shored.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 457.47 ft above sea level. Measuring point: Top of wooden well cover, 0.62 ft above land-surface datum.

REMARKS.--Water level affected by pumping from nearby well.

PERIOD OF RECORD.--November 1943 to current year. November 1943 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.13 ft below land-surface datum, Oct. 27, 1980; lowest measured, 51.20 ft below land-surface datum, Feb. 10, 1945.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	40.01	May 22, 1996	39.84

380827085503001. Local number 86-5, map number 13.

LOCATION.--Lat 38° 08' 27", long 85° 50' 30", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, South of Dixie Highway and Greenwood Road, west on Seibel Court, 17.9 ft east of south corner of culvert wall behind Little Reds Mister Fix It. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in., depth 44 ft, screened 42-44 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 453.75 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.44 ft below land-surface datum, May 8, 1991; lowest measured, 31.70 ft below land-surface datum, Oct. 18, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	30.28	May 22, 1996	30.19

380843085530701. Local number B-3-d, map number 14.

LOCATION.--Lat 38° 08' 43", long 85° 53' 07", Hydrologic Unit 05140101, County Code 111, Lanesville quadrangle, in a field 60 ft east of southeast corner of church yard fence, 200 ft southeast of Greenwood Road, 300 ft west of Mill Creek, in Louisville. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in., depth unknown, screened interval unknown.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 424.9 ft above sea level. Measuring point: Top edge of metal well cover, at land-surface datum.

REMARKS.--EPA, Mill Creek EIS test well.

PERIOD OF RECORD.--October 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.78 ft below land-surface datum, Oct. 29, 1980; lowest measured, 18.69 ft below land-surface datum, Oct. 19, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	18.12	May 22, 1996	16.57

GROUND-WATER LEVELS

JEFFERSON COUNTY

380850085534701. Local number 78-2, map number 15.

LOCATION.--Lat 38°08'50", long 85°53'47", Hydrologic Unit 05140101, County Code 111, Lanesville quadrangle, at the southwest corner of Cane Run Road and Greenwood Road, 25 ft west of Cane Run Road, 44 ft south of Greenwood Road, and 0.4 mi east of Ohio River, in Louisville. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 86.6 ft, screened 84.6-86.6 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 450.07 ft above sea level. Measuring point: Top of casing at land-surface datum.

PERIOD OF RECORD.--May 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.68 ft below land-surface datum, May 2, 1979; lowest measured, 52.17 ft below land-surface datum, Oct. 26, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	52.17	May 22, 1996	44.28

380940085514001. Local number 81-1, map number 16.

LOCATION.--Lat 38°09'40", long 85°51'40", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, 7 ft west of a fence corner, 10 ft east of center of a gravel road, 20 ft north of the west bank of Black Pond Creek, 40 ft north of northeast corner of concrete bridge, 400 ft south of Lower Hunters Trace, 1.5 mi west of Dixie Highway, in Louisville. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 70.0 ft, screened 63.0-65.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS annual personnel.

DATUM.--Elevation of land-surface datum is 444.58 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--April 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.57 ft below land-surface datum, Apr. 26, 1985, May 7, 1991; lowest measured, 26.40 ft below land-surface datum, Oct. 19, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	25.19	May 22, 1996	24.60

380955085531801. Local number 83-2, map number 17.

LOCATION.--Lat 38°09'55", long 85°53'18", Hydrologic Unit 05140101, County Code 111, Lanesville quadrangle, 19 ft northwest of a fire plug, 22 ft south of concrete curb on Riverport Drive, 100 ft southeast of a concrete bridge and drainage ditch, 3 mi northwest of Pleasure Ridge Park. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 97 ft, screened 95-97 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 441.8 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--July 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.92 ft below land-surface datum, May 7, 1991; lowest measured, 40.04 ft below land-surface datum, Oct. 27, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	38.80	May 22, 1996	34.35

GROUND-WATER LEVELS

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JEFFERSON COUNTY

381034085502601. Local number 50-10-2 (RR-30), map number 18.

LOCATION.--Lat 38° 10' 34", long 85° 50' 26", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, on south edge of Rockford Lane near west bank of Mill Creek, in Shively. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 94 ft, screened 90-92 ft.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 442.96 ft above sea level. Measuring point: Floor of recorder shelter, 4.31 ft above land-surface datum.

REMARKS.--Water-quality sample May 6, 1945.

PERIOD OF RECORD.--April 1945 to current year.

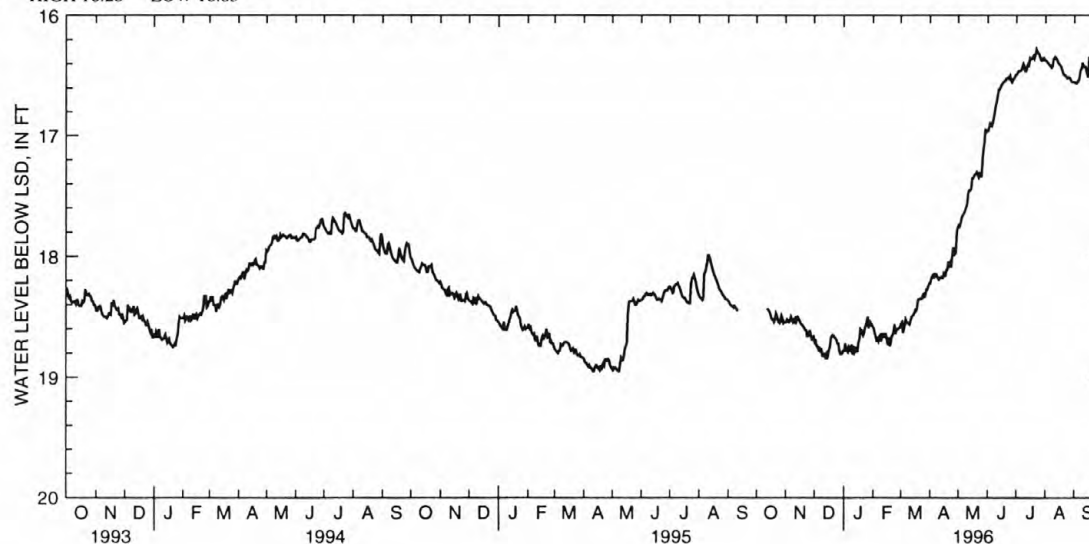
EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 15.38 ft below land-surface datum, Apr. 14, 1980; lowest 31.55 ft below land-surface datum, Apr. 2, 1957.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	18.54	18.71	18.78	18.59	18.55	18.22	17.74	16.96	16.49	16.37	16.55
2	---	18.52	18.70	18.72	18.63	18.54	18.18	17.75	16.93	16.47	16.38	16.56
3	---	18.53	18.74	18.77	18.66	18.63	18.16	17.72	16.89	16.46	16.39	16.56
4	---	18.54	18.74	18.78	18.69	18.60	18.15	17.68	16.89	16.46	16.40	16.54
5	---	18.53	18.77	18.79	18.68	18.56	18.18	17.66	16.91	16.46	16.41	16.54
6	---	18.50	18.76	18.75	18.70	18.52	18.14	17.65	16.88	16.45	16.42	16.50
7	---	18.52	18.79	18.77	18.66	18.54	18.14	17.63	16.83	16.42	16.43	16.45
8	---	18.54	18.76	18.78	18.65	18.55	18.15	17.61	16.79	16.40	16.42	16.44
9	---	18.52	18.82	18.73	18.70	18.55	18.18	17.59	16.74	16.42	16.36	16.39
10	---	18.51	18.82	18.81	18.64	18.56	18.19	17.56	16.71	16.46	16.35	16.41
11	---	18.56	18.81	18.74	18.64	18.53	18.18	17.47	16.66	16.46	16.34	16.42
12	18.43	18.51	18.83	18.79	18.67	18.50	18.17	17.45	16.61	16.43	16.35	16.42
13	18.44	18.50	18.81	18.77	18.64	18.49	18.18	17.45	16.61	16.40	16.37	16.45
14	18.45	18.51	18.85	18.75	18.64	18.48	18.18	17.44	16.59	16.41	16.39	16.48
15	18.47	18.53	18.82	18.79	18.69	18.46	18.14	17.35	16.57	16.35	16.40	16.51
16	18.50	18.55	18.77	18.71	18.73	18.44	18.16	17.35	16.56	16.36	16.41	16.34
17	18.52	18.56	18.75	18.69	18.67	18.45	18.16	17.33	16.55	16.36	16.42	16.42
18	18.52	18.57	18.67	18.60	18.74	18.43	18.11	17.32	16.54	16.34	16.45	16.46
19	18.54	18.58	18.66	18.61	18.72	18.36	18.11	17.31	16.54	16.33	16.47	16.47
20	18.52	18.59	18.65	18.62	18.66	18.35	18.04	17.30	16.52	16.35	16.49	16.47
21	18.47	18.61	18.66	18.65	18.65	18.35	18.07	17.32	16.52	16.32	16.49	16.44
22	18.49	18.61	18.67	18.63	18.62	18.35	18.05	17.34	16.51	16.28	16.50	16.42
23	18.52	18.66	18.68	18.58	18.56	18.35	18.09	17.31	16.52	16.30	16.51	16.45
24	18.54	18.66	18.69	18.56	18.64	18.32	18.00	17.32	16.50	16.31	16.52	16.46
25	18.55	18.64	18.72	18.53	18.61	18.31	17.93	17.34	16.54	16.32	16.51	16.51
26	18.53	18.61	18.72	18.50	18.60	18.34	17.93	17.19	16.55	16.35	16.51	16.48
27	18.49	18.65	18.78	18.59	18.60	18.31	17.98	17.10	16.53	16.37	16.52	16.36
28	18.51	18.69	18.81	18.53	18.59	18.27	17.97	17.05	16.52	16.37	16.54	16.29
29	18.55	18.69	18.81	18.55	18.58	18.27	17.80	16.94	16.51	16.35	16.55	16.35
30	18.54	18.67	18.80	18.56	---	18.24	17.76	16.97	16.49	16.35	16.55	16.38
31	18.54	---	18.78	18.58	---	18.22	---	16.96	---	16.37	16.55	---
MAX	---	18.69	18.85	18.81	18.74	18.63	18.22	17.75	16.96	16.49	16.55	16.56
MIN	---	18.50	18.65	18.50	18.56	18.22	17.76	16.94	16.49	16.28	16.34	16.29

WTR YR 1996 HIGH 16.28 LOW 18.85



GROUND-WATER LEVELS

JEFFERSON COUNTY

381050085511001. Local number 51-10-1, (RR-29), map number 19.

LOCATION.--Lat 38° 10' 50", long 85° 51' 10", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, 50 ft south of Rockford Lane, at the edge of an apartment house parking area, 0.3 mi southeast of the junction of Cane Run Road and Rockford Lane. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 64 ft, screened 62.5-64.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 444.18 ft above sea level. Measuring point: Top of plug, 3.60 ft above land-surface datum.

REMARKS.--Water-quality sample Apr. 3, 1945.

PERIOD OF RECORD.--April 1945 to current year. April 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.80 ft below land-surface datum, Apr. 16, 1980; lowest measured, 37.61 ft below land-surface datum, Mar. 21, 1957.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	25.94	May 22, 1996	25.13

381102085485601. Local number 86-2, map number 20.

LOCATION.--Lat 38° 11' 02", long 85° 48' 56", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, enter through Louisville Memorial Park Cemetery, on south bank of Mill Creek behind Korfhage Florist, 18.2 ft southwest of MSD access gate, in Louisville. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in., depth 50 ft, screened 48-50 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 450.32 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.23 ft below land-surface datum, May 22, 1996; lowest measured, 24.76 ft below land-surface datum, Oct. 18, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	22.19	May 22, 1996	21.23

381123085491401. Local number 49-11-1, (RR-32), map number 21.

LOCATION.--Lat 38° 11' 23", long 85° 49' 14", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, on the east edge of a private driveway, at 2134 Garrs Lane, 150 ft south of Garrs Lane, 400 ft southeast of the junction of Garrs and Eden Lanes, in Shively. Owner: Joseph A. Winkle.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 108 ft, screened 106.5-108.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 455.55 ft above sea level. Measuring point: Top of plug, 2.60 ft above land-surface datum.

PERIOD OF RECORD.--May 1945 to current year. May 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.86 ft below land-surface datum, Apr. 25, 1985; lowest measured, 45.76 ft below land-surface datum, Mar. 21, 1957.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	29.37	May 22, 1996	28.30

GROUND-WATER LEVELS

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JEFFERSON COUNTY

381130085515001. Local number 51-11-1, map number 22.

LOCATION.--Lat 38° 11' 30", long 85° 51' 50", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, in a concrete well pit on the west side of a tool shed at the Thieneman Brothers vegetable farm, 0.3 mi northeast of the junction of Camp Ground Road and Lees Lane, in Louisville. Owner: Thieneman Brothers.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in., depth 70 ft, cased and screened.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 453.64 ft above sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Water level affected by pumping from nearby well.

PERIOD OF RECORD.--February 1944 to current year. February 1944 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.11 ft below land-surface datum, May 6, 1991; lowest measured, 59.80 ft below land-surface datum, Jan. 24, 1956.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	46.79	May 21, 1996	43.94

381139085502301. Local number 81-2, map number 23.

LOCATION.--Lat 38° 11' 39", long 85° 50' 23", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, 12 ft west of west bank of a drainage ditch, 21 ft northeast of west end of guardrail, 30 ft north of north edge of blacktop on S. Crums Lane, 40 ft northwest of northwest corner of concrete bridge, 1,000 ft east of junction of Cane Run Road and S. Crums Lane, in Louisville. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 54 ft, screened 41.5-43.5 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 444.91 ft above sea level. Measuring point: Top of casing at land-surface datum.

PERIOD OF RECORD.--May 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.52 ft below land-surface datum, May 6, 1991; lowest measured, 30.21 ft below land-surface datum, Oct. 27, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	26.90	May 22, 1996	26.00

381142085475702. Local number, 47-11-4, (RR-42), map number 24.

LOCATION.--Lat 38° 11' 42", long 85° 47' 57", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the concrete curb on the west side of Manslick Road, 0.1 mi south of junction of Manslick Road and Berry Boulevard, in Louisville. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 103 ft, screened 101.5-103.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 453.91 ft above sea level. Measuring point: Top of plug, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--July 1945 to current year. July 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.02 ft below land-surface datum, Apr. 25, 1985; lowest measured, 49.27 ft below land-surface datum, Apr. 5, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	23.39	May 21, 1996	22.39

GROUND-WATER LEVELS

JEFFERSON COUNTY

381143085465801. Local number 46-11-2, (RR-25), map number 25.

LOCATION.--Lat 38°11'43", long 85°46'58", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, in the center of the concrete sidewalk at the driveway to Most Blessed Sacrament Catholic Church, 100 ft northeast of the junction of Taylor Boulevard and Hathaway Street, in Louisville. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 60 ft, screened 59-60 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 458.66 ft above sea level. Measuring point: Top of plug, 0.97 ft below land-surface datum.

REMARKS.--Water quality sample Mar. 1, 1945.

PERIOD OF RECORD.--March 1945 to current year. March 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.42 ft below land-surface datum, Oct. 31, 1985; lowest measured, 52.63 ft below land-surface datum, Apr. 25, 1955.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	25.82	May 21, 1996	24.95

381204085455301. Local number CP-16, map number 26.

LOCATION.--Lat 38°12'04", long 85°45'53", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, near the south end of Wayside Park, 32 ft west of South Third Street curb, 52 ft east of Oakdale Avenue curb, 160 ft north of intersection with Southern Parkway, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered well, diameter 1.5 in., depth 23 ft, screened 21-23 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 456.82 ft above sea level. Measuring point: Top of casing, at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.46 ft below land-surface datum, Apr. 24, 1984; lowest measured, 13.84 ft below land-surface datum, Oct. 18, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	13.20	May 21, 1996	11.50

381207085484601. Local number 48-12-15, (RR-41), map number 27.

LOCATION.--Lat 38°12'07", long 85°48'46", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, on the east edge of a private driveway at the south end of a hedge, 3 ft west of a chain-link fence, 100 ft northeast of junction of Farnsley and Janell Roads, in Shively. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 91 ft, screened 89.5-91.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 457.25 ft above sea level. Measuring point: Top of plug, 0.12 ft below land-surface datum.

REMARKS.--Water-quality sample June 29, 1945.

PERIOD OF RECORD.--June 1945 to current year. June 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.68 ft below land-surface datum, Apr. 25, 1985; lowest measured, 52.81 ft below land-surface datum, Mar. 22, 1957.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	30.03	May 22, 1996	28.96

GROUND-WATER LEVELS

239

JEFFERSON COUNTY

381209085472101. Local number 47-12-3, (C-7), map number 28.

LOCATION.--Lat 38°12'09", long 85°47'21", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, in an open field near a sewer manhole, 200 ft west of the west end of Weyler Avenue, 0.2 mi east of 7th Street Road and Yellowstone Distillery, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in., depth 97 ft, screened 95-97 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 448.60 ft above sea level. Measuring point: Top of plug, 2.75 ft above land-surface datum.

PERIOD OF RECORD.--October 1935 to current year. October 1935 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.95 ft below land-surface datum, Apr. 25, Oct. 31, 1985; lowest measured, 52.19 ft below land-surface datum, Feb. 19, 1945.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	17.35	May 21, 1996	16.65

381213085521701. Local number 52-12-2, (RR-22), map number 29.

LOCATION.--Lat 38°12'13", long 85°52'17", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, 50 ft south of Ohio River at the Stauffer Chemical Company Plant, 0.9 mi north of junction of Camp Ground Road and Lees Lane, in Louisville. Owner: Stauffer Chemical Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 101 ft, screened 99-101 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 434.30 ft above sea level. Measuring point: Floor of recorder shelter, 4.16 ft above land-surface datum.

REMARKS.--Water levels affected by Ohio River. Water-quality sample collected Feb. 12, 1945.

PERIOD OF RECORD.--August 1945 to current year. August 1945 to September 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.77 ft below land-surface datum, May 21, 1996; lowest measured, 51.79 ft below land-surface datum, June 18, 1962.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

Date	Water Level	Date	Water Level
Oct. 25, 1995	45.74	May 21, 1996	18.77

381222085505201. Local number 50-12-16 (RR-27), map number 63.

LOCATION.--Lat 38°12'22", long 85°50'52", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, on the south edge of Kramers Lane, at the east side of the entrance driveway to Marathon Oil Company storage terminal, 300 ft southwest of the junction of Camp Ground Road and Kramers Lane, in Louisville. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 112 ft, screened 110.5-112.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 445.58 ft above sea level. Measuring point: Floor of recorder shelter, 3.40 ft above land-surface datum.

REMARKS.--Water level affected by pumping from nearby wells. Water-quality sample collected Mar. 23, 1945.

PERIOD OF RECORD.--March 1945 to current year. March 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.79 ft below land-surface datum, May 11, 1994; lowest measured, 68.37 ft below land-surface datum, Oct. 7, 1963.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	40.11	May 21, 1996	35.55

GROUND-WATER LEVELS

JEFFERSON COUNTY

381246085470601. Local number 47-12-4, (owner's number TW-2), map number 30.

LOCATION.--Lat 38° 12' 46", long 85° 47' 06", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the southeast corner of a used car lot, Seventh Street Road at Wathen Lane, 100 ft southeast of a Ranney collector well, in Louisville. Owner: Joseph E. Seagram and Sons Distillery.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 103 ft, cased and screened.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 458.64 ft above sea level. Measuring point: Floor of recorder shelter, 4.39 ft above land-surface datum.

REMARKS.--Water levels affected by pumping from nearby collector well.

PERIOD OF RECORD.--October 1943 to current year.

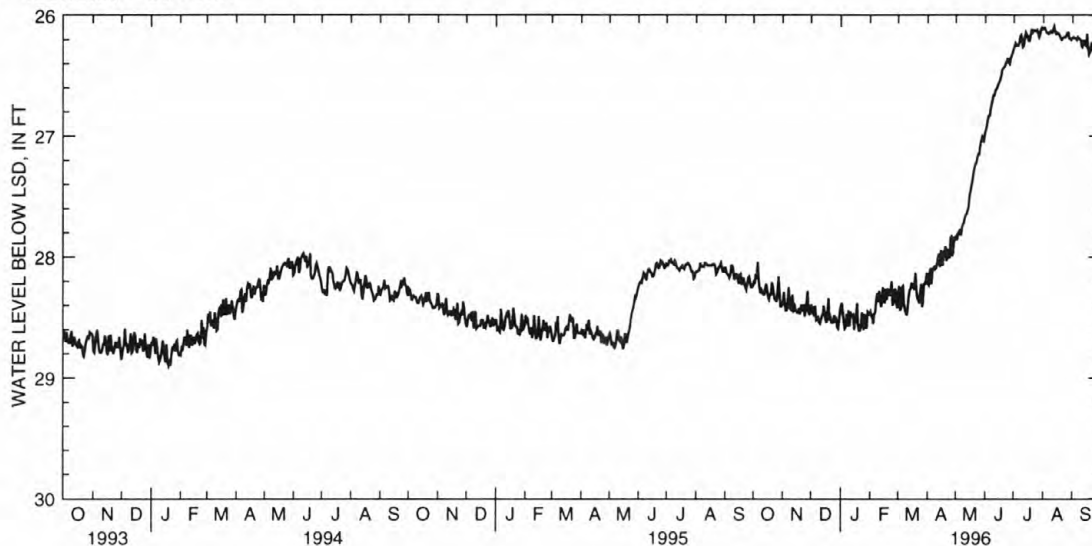
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 26.09 ft below land-surface datum, Aug. 12, 1996; lowest, 88.37 ft below land-surface datum, Mar. 9, 1944.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.19	28.36	28.39	28.40	28.45	28.30	28.22	27.83	26.95	26.26	26.10	26.18
2	28.22	28.29	28.47	28.38	28.49	28.24	28.23	27.86	26.91	26.23	26.10	26.18
3	28.14	28.40	28.41	28.47	28.50	28.44	28.12	27.80	26.86	26.25	26.12	26.19
4	28.18	28.44	28.49	28.54	28.55	28.42	28.09	27.79	26.83	26.25	26.14	26.19
5	28.04	28.44	28.40	28.59	28.47	28.25	28.22	27.77	26.83	26.25	26.14	26.20
6	28.18	28.36	28.52	28.58	28.46	28.24	28.12	27.82	26.77	26.22	26.15	26.18
7	28.26	28.25	28.51	28.47	28.36	28.37	28.09	27.75	26.73	26.17	26.14	26.19
8	28.30	28.42	28.50	28.57	28.30	28.43	28.08	27.73	26.70	26.16	26.13	26.19
9	28.27	28.43	28.54	28.44	28.37	28.46	28.10	27.72	26.66	26.20	26.14	26.20
10	28.29	28.36	28.55	28.57	28.28	28.48	28.09	27.67	26.66	26.26	26.14	26.25
11	28.31	28.31	28.52	28.45	28.34	28.42	28.05	27.65	26.62	26.25	26.11	26.26
12	28.31	28.46	28.48	28.49	28.41	28.32	28.00	27.64	26.61	26.18	26.09	26.21
13	28.26	28.38	28.47	28.49	28.36	28.27	27.97	27.61	26.59	26.14	26.13	26.21
14	28.22	28.43	28.40	28.48	28.25	28.26	28.08	27.58	26.57	26.16	26.15	26.24
15	28.26	28.44	28.47	28.60	28.32	28.21	27.94	27.48	26.55	26.17	26.14	26.25
16	28.33	28.46	28.52	28.51	28.38	28.24	28.03	27.45	26.53	26.21	26.15	26.15
17	28.35	28.46	28.54	28.48	28.26	28.24	28.07	27.40	26.50	26.21	26.15	26.27
18	28.31	28.42	28.44	28.38	28.35	28.27	27.96	27.37	26.45	26.16	26.17	26.32
19	28.31	28.47	28.34	28.57	28.26	28.13	27.94	27.31	26.44	26.11	26.19	26.30
20	28.21	28.40	28.52	28.61	28.28	28.26	27.91	27.26	26.43	26.15	26.20	26.27
21	28.24	28.40	28.50	28.61	28.32	28.34	28.03	27.23	26.42	26.12	26.19	26.22
22	28.31	28.45	28.54	28.56	28.28	28.35	27.94	27.22	26.39	26.12	26.18	26.26
23	28.35	28.39	28.54	28.46	28.20	28.38	27.95	27.18	26.38	26.13	26.18	26.30
24	28.35	28.49	28.54	28.49	28.40	28.30	28.01	27.15	26.35	26.13	26.18	26.29
25	28.37	28.44	28.48	28.60	28.37	28.22	27.84	27.15	26.39	26.12	26.16	26.34
26	28.27	28.37	28.52	28.47	28.28	28.41	27.83	27.08	26.40	26.15	26.14	26.28
27	28.16	28.28	28.51	28.54	28.26	28.37	27.99	27.04	26.35	26.18	26.14	26.25
28	28.28	28.46	28.58	28.59	28.38	28.22	27.96	27.01	26.33	26.16	26.19	26.31
29	28.41	28.47	28.59	28.45	28.42	28.22	27.83	27.03	26.31	26.11	26.19	26.35
30	28.41	28.46	28.53	28.46	---	28.19	27.85	27.04	26.28	26.10	26.20	26.37
31	28.39	---	28.43	28.47	---	28.13	---	26.98	---	26.11	26.19	---
MAX	28.41	28.49	28.59	28.61	28.55	28.48	28.23	27.86	26.95	26.26	26.20	26.37
MIN	28.04	28.25	28.34	28.38	28.20	28.13	27.83	26.98	26.28	26.10	26.09	26.15

WTR YR 1996 HIGH 26.09 LOW 28.61



GROUND-WATER LEVELS

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JEFFERSON COUNTY

381246085463201. Local number CP 18A, map number 31.

LOCATION.--Lat 38°12'46", long 85°46'32", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at Colorado and Tennessee Avenue in the northeast corner of South Central Park, 10 ft east of CP18. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in., depth 44.3 ft. screened 42-44 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 460.11 ft above sea level. Measuring point: Top of casing, 0.35 ft. below land-surface datum.

PERIOD OF RECORD.--October 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.51 ft below land-surface datum, Apr. 23, 1985; lowest measured, 33.18 ft below land-surface datum, Oct. 19, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	29.75	May 21, 1996	28.69

381251085483501. Local number 48-12-2, (C-3), map number 32.

LOCATION.--Lat 38°12'51", long 85°48'35", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, in an open field, 200 ft east of Tucker Avenue, 300 ft north of the Stitzel-Weller Distillery, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in., depth 117 ft, screened 115-117 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 465.95 ft above sea level. Measuring point: Top of casing, .60 ft above land-surface datum.

REMARKS.--Water level affected by pumping from nearby wells.

PERIOD OF RECORD.--October 1935 to current year. October 1935 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.23 ft below land-surface datum, May 21, 1996; lowest measured, 78.99 ft below land-surface datum, Nov. 1, 1957.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	42.26	May 21, 1996	41.23

381251085500501. Local number 50-12-18, (RR-35), map number 33.

LOCATION.--Lat 38°12'51", long 85°50'05", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, 60 ft north of Camp Ground Road, 1,500 ft northeast of junction of Camp Ground Road and Ralph Avenue, in Louisville. Owner: Air Reduction Company, Inc.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 120 ft, screened 118-120 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 455.54 ft above sea level. Measuring point: Floor of recorder shelter, 5.02 ft above land-surface datum.

REMARKS.--Water levels affected by pumping from nearby wells. Water-quality sample collected May 24, 1945.

PERIOD OF RECORD.--May 1945 to current year. May 1945 to September 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.54 ft below land-surface datum, May 21, 1996; lowest measured, 78.35 ft below land-surface datum, Mar. 20, 1961.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	47.69	May 21, 1996	44.54

GROUND-WATER LEVELS

JEFFERSON COUNTY

381257085471801. Local number 47-12-15, (TW-4), map number 34.

LOCATION.--Lat 38°12'57", long 85°47'18", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, in the truck parking lot at the National Distillers Products Company Plant, 50 ft north of Wathen Lane, 0.3 mi east of Dixie Highway, in Louisville. Owner: National Distillers Products Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in., depth 84 ft, cased and screened.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 455.07 ft above sea level. Measuring point: Top of casing, 4.70 ft above land-surface datum.

REMARKS.--Water level affected by pumping from nearby wells.

PERIOD OF RECORD.--July 1942 to current year. July 1942 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.71 ft below land-surface datum, Apr. 24, 1985; lowest measured, 72.47 ft below land-surface datum, Feb. 19, 1945.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	25.31	May 21, 1996	24.47

381259085511002. Local number 51-13-1, (RR-21), map number 35.

LOCATION.--Lat 38°12'59", long 85°51'10", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, on south bank of Ohio River directly behind the Du Pont Chemical Company Plant, 200 ft northeast of a large brick pump house, 0.8 mi southwest of junction of Ralph Avenue and Camp Ground Road, in Louisville. Owner: Du Pont Chemical Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 107 ft, screened 105.5-107.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 440.20 ft above sea level. Measuring point: Top of plug, 1.90 ft above land-surface datum.

PERIOD OF RECORD.--February 1945 to current year. February 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.87 ft below land-surface datum, Apr. 9, 1975; lowest measured, 64.39 ft below land-surface datum, Nov. 12, 1969.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	54.67	May 21, 1996	24.03

GROUND-WATER LEVELS

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JEFFERSON COUNTY

381315085502602. Local number 50-13-79, (NC-TW-D), map number 36.

LOCATION.--Lat 38°13'15", long 85°50'26", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, 800 ft south of Bells Lane, 0.3 mi east of the Ohio River, at the National Carbide Plant in Louisville. Owner: Air Reduction Company, Inc.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 108 ft, cased and screened.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 448.68 ft above sea level. Measuring point: Floor of recorder shelter, 4.72 ft above land-surface datum.

REMARKS.--Water levels affected by pumping from nearby wells.

PERIOD OF RECORD.--January 1956 to current year.

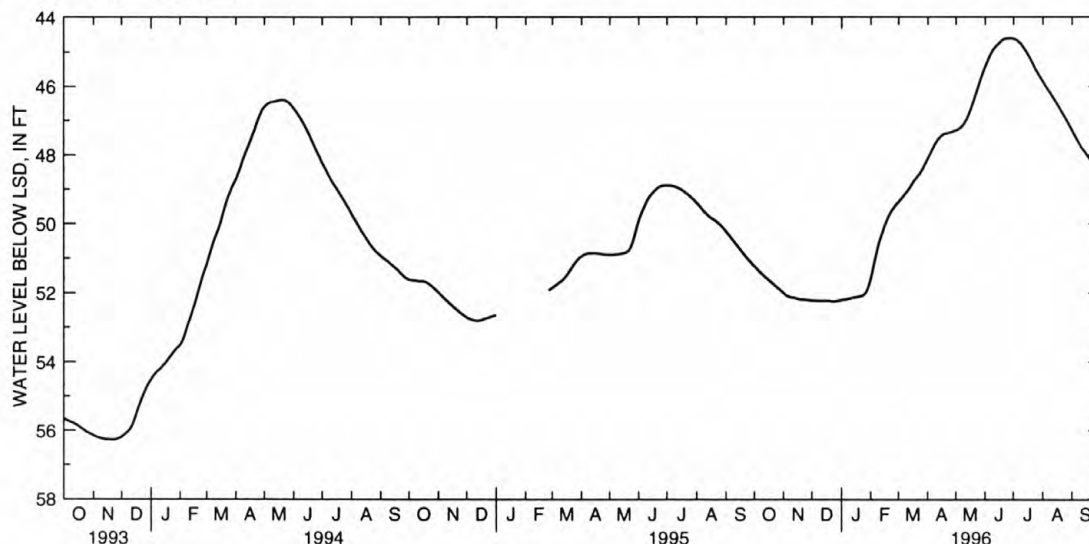
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 44.34 ft below land-surface datum, May 23, 1984; lowest, 87.29 ft below land-surface datum, Nov. 13, 1964.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51.24	52.02	52.22	52.20	51.51	49.36	48.08	47.29	45.39	44.62	45.87	47.32
2	51.27	52.04	52.22	52.20	51.39	49.32	48.03	47.28	45.32	44.63	45.92	47.37
3	51.30	52.07	52.22	52.19	51.26	49.29	47.98	47.26	45.26	44.64	45.97	47.43
4	51.33	52.09	52.23	52.19	51.14	49.26	47.92	47.24	45.19	44.66	46.01	47.48
5	51.36	52.10	52.23	52.19	51.02	49.23	47.87	47.22	45.13	44.68	46.05	47.53
6	51.39	52.11	52.23	52.18	50.90	49.19	47.82	47.20	45.07	44.71	46.10	47.58
7	51.42	52.12	52.23	52.18	50.78	49.15	47.77	47.17	45.02	44.73	46.14	47.62
8	51.45	52.13	52.24	52.17	50.66	49.12	47.71	47.13	44.98	44.76	46.18	47.67
9	51.47	52.13	52.24	52.17	50.56	49.09	47.66	47.10	44.93	44.79	46.22	47.71
10	51.50	52.14	52.24	52.16	50.46	49.05	47.62	47.05	44.90	44.83	46.26	47.76
11	51.52	52.14	52.24	52.15	50.38	49.01	47.58	47.01	44.87	44.87	46.31	47.80
12	51.55	52.15	52.24	52.15	50.30	48.97	47.54	46.96	44.83	44.91	46.35	47.84
13	51.57	52.15	52.24	52.14	50.22	48.93	47.51	46.89	44.80	44.95	46.40	47.87
14	51.59	52.16	52.23	52.13	50.14	48.88	47.48	46.83	44.78	44.99	46.44	47.91
15	51.62	52.17	52.23	52.13	50.06	48.84	47.45	46.75	44.75	45.04	46.49	47.95
16	51.64	52.18	52.24	52.12	49.99	48.79	47.43	46.68	44.72	45.09	46.54	47.99
17	51.67	52.18	52.24	52.12	49.92	48.75	47.41	46.60	44.69	45.14	46.58	48.03
18	51.69	52.19	52.24	52.11	49.86	48.72	47.40	46.52	44.67	45.18	46.63	48.06
19	51.71	52.19	52.24	52.11	49.79	48.68	47.39	46.44	44.65	45.24	46.68	48.10
20	51.74	52.19	52.24	52.10	49.75	48.65	47.38	46.35	44.63	45.29	46.73	48.14
21	51.76	52.20	52.25	52.10	49.69	48.61	47.38	46.26	44.62	45.34	46.77	48.17
22	51.79	52.20	52.25	52.09	49.64	48.58	47.37	46.18	44.62	45.40	46.82	48.21
23	51.81	52.20	52.25	52.07	49.60	48.54	47.36	46.09	44.61	45.46	46.87	48.25
24	51.83	52.21	52.25	52.05	49.56	48.50	47.36	46.00	44.61	45.51	46.92	48.28
25	51.86	52.21	52.25	52.03	49.53	48.45	47.35	45.92	44.61	45.56	46.97	48.32
26	51.88	52.21	52.25	52.00	49.49	48.41	47.34	45.83	44.61	45.61	47.02	48.35
27	51.90	52.21	52.24	51.95	49.45	48.36	47.33	45.75	44.60	45.66	47.07	48.39
28	51.92	52.21	52.24	51.89	49.42	48.30	47.32	45.67	44.60	45.70	47.12	48.42
29	51.95	52.22	52.23	51.82	49.39	48.25	47.31	45.60	44.61	45.74	47.17	48.45
30	51.97	52.22	52.22	51.73	---	48.19	47.30	45.53	44.61	45.79	47.22	48.48
31	52.00	---	52.21	51.62	---	48.13	---	45.46	---	45.83	47.27	---
MAX	52.00	52.22	52.25	52.20	51.51	49.36	48.08	47.29	45.39	45.83	47.27	48.48
MIN	51.24	52.02	52.21	51.62	49.39	48.13	47.30	45.46	44.60	44.62	45.87	47.32

WTR YR 1996 HIGH 44.60 LOW 52.25



GROUND-WATER LEVELS

JEFFERSON COUNTY

381320085464101. Local number CP-15, map number 37.

LOCATION.--Lat 38°13'20", long 85°45'41", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the northeast corner of Samuel Jones Park, Patton Court and South 13th Street, 14 ft south of chain-link fence, 22 ft south of curb on south side of Patton Court, 45 ft west of curb on west side of south 13th Street. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 100 ft, screened 96.5-100.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 453.68 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--December 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.84 ft below land-surface datum, Apr. 23, 1985; lowest measured, 30.03 ft below land-surface datum, Dec. 14, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	24.67	May 21, 1996	23.92

381331085491601. Local number 49-13-40, (RR-26), map number 38.

LOCATION.--Lat 38°13'31", long 85°49'40", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the southeast corner of Algonquin Parkway and 39th Street, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 115 ft, screened 113.5-115.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 450.43 ft above sea level. Measuring point: Top of plug, 1.40 ft above land-surface datum.

REMARKS.--Water-quality samples Mar. 13, 1945 to June 28, 1966.

PERIOD OF RECORD.--March 1945 to current year. March to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 37.01 ft below land-surface datum, Apr. 25, 1985; lowest measured, 76.25 ft below land-surface datum, Nov. 29, 1963.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	38.85	May 21, 1996	38.70

381346085453801. Local number 45-13-2 (St. Patrick's well), map number 39.

LOCATION.--Lat 38°13'46", long 85°45'38", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the rear of Van Brook Manor Nursing Home, 1382 South Third Street, in Louisville. Owner: Van Brook Manor, Inc.

AQUIFER.--Knox Dolomite of Early Ordovician age. Aquifer code: 367KNOX.

WELL CHARACTERISTICS.--Drilled artesian (flowing) gas test, diameter 1-3/4 in., depth 1952 ft, length of wooden casing unknown.

INSTRUMENTATION.--Bi-annual volumetric measurement by USGS personnel.

DATUM.--Elevation of land-surface datum is 458.15 ft above sea level. Measuring point: Valve at pressure gage, 0.30 ft below land-surface datum.

REMARKS.--Water-quality samples Feb. 9, 1938 to July 7, 1981.

PERIOD OF RECORD.--February 1971 to current year. February 1971 to September 1977 unpublished, on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Maximum water flow measured, 0.50 gal/min Mar. 6, 1978; minimum measured, zero flow (frozen) Jan. 31, 1977.

WATER FLOW, IN GALLONS PER MINUTE (GAL/MIN), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Flow	Date	Water Flow
Oct. 26, 1995	.02	May 21, 1996	.02

GROUND-WATER LEVELS

245

JEFFERSON COUNTY

381346085454201. Local number CP 1, map number 40.

LOCATION.--Lat 38°13'46", long 85°45'42", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the southeast corner of Central Park, 100 ft north of a concrete retaining wall on Magnolia Street, 20 ft west of concrete retaining wall on South Fourth Street, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 106.2 ft, screened 103.2-106.2 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 459.86 ft above sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Water-quality sample collected June 16, 1978 to Sept. 17, 1981.

PERIOD OF RECORD.--June 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.98 ft below land-surface datum, Apr. 23, 1985; lowest measured, 41.23 ft below land-surface datum, June 16, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	32.23	May 20, 1996	31.54

381400085445001. Local number CP 6, map number 41.

LOCATION.--Lat 38°14'00", long 85°44'45", Hydrologic Unit 05140101, County Code 111, Louisville East quadrangle, at the northwest corner of Shelby Park, 70 ft south of an alley, 80 ft east of South Jackson Street, 300 ft southeast of the junction of East Oak and South Jackson Streets, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 79.2 ft, screened 52.2-55.2 ft, 76.2-79.2 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 459.26 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--July 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.86 ft below land-surface datum, Oct. 30, 1984; lowest measured, 39.95 ft below land-surface datum, July 5, Aug. 4, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	33.40	May 20, 1996	32.06

381417085500301. Local number 50-14-4 (RR-23), map number 42.

LOCATION.--Lat 38°14'17", long 85°50'03", Hydrologic Unit 05140101, County Code 111, at the Louisville Refining Company Plant, 1300 South Western Parkway, on top of Ohio River flood wall, 200 ft southeast of a river barge loading dock, in Louisville. Owner: Ashland Oil Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 101 ft, screened 99.5-101.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 453.83 ft above sea level. Measuring point: Top of plug, 5.60 ft above land-surface datum.

REMARKS.--Water-quality sample collected Feb. 15, 1945.

PERIOD OF RECORD.--February 1945 to current year. February 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.70 ft below land-surface datum, May 21, 1996; lowest measured, 77.08 ft below land-surface datum, Dec. 17, 1954.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	56.56	May 21, 1996	43.70

GROUND-WATER LEVELS

JEFFERSON COUNTY

381428085485701. Local number 78-6, map number 43.

LOCATION.--Lat 38° 14' 28", long 85° 48' 57", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at Virginia Avenue, I-264 South Exit, 19 ft east of curb on east side of exit road, 24 ft southeast of south end of a metal guardrail, 100 ft north of curb on north edge of Virginia Avenue, in Louisville. Owner: Kentucky Highway Department.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 98 ft, screened 96-98 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 440.28 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--February 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.96 ft below land-surface datum, May 6, 1991; lowest measured, 29.75 ft below land-surface datum, Dec. 13, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	26.06	May 20, 1996	24.59

381430085472501. Local number CP-17, map number 44.

LOCATION.--Lat 38° 14' 30", long 85° 47' 25", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, 21 ft west of the west curb on 22nd Street, 45 ft north of north curb on Greenwood Street, at the southeast corner of Victory Park, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 86.0 ft, screened 84.0-86.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 451.78 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--March 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.20 ft below land-surface datum, Apr. 23, 1985; lowest measured, 29.96 ft below land-surface datum, Oct. 25, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	28.19	May 20, 1996	27.86

GROUND-WATER LEVELS

247

JEFFERSON COUNTY

381441085452701. Local number 45-14-71, (owner's number A-2), map number 45.

LOCATION.--Lat 38° 14' 41", long 85° 45' 27", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the Louisville Free Public Library, 301 West York Street, on east side of building at base of the TV-radio tower, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in., depth 105 ft, cased and screened.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 454.23 ft above sea level. 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.

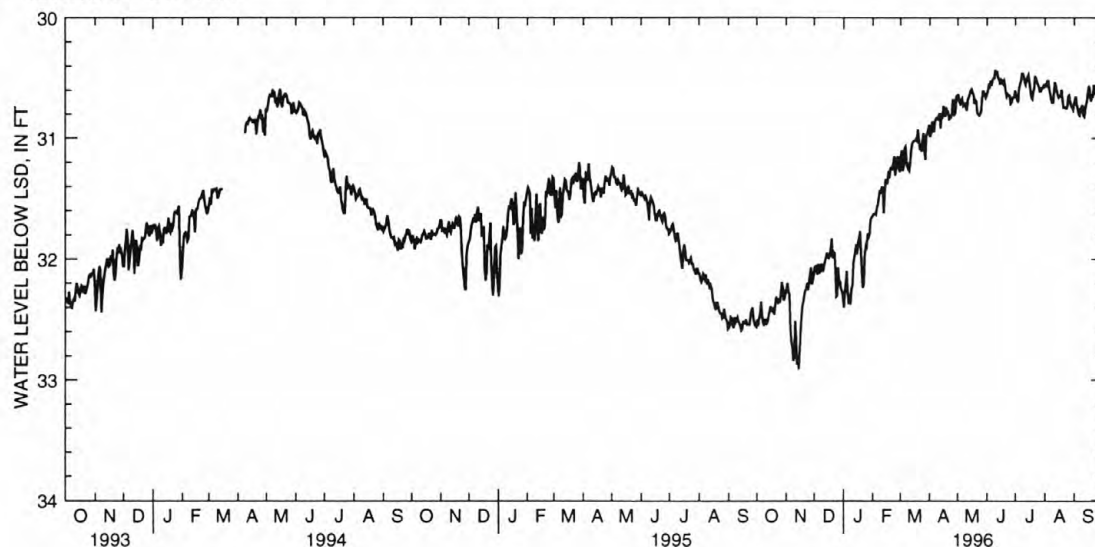
EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 28.09 ft below land-surface datum, May 20, 1984; lowest, 77.82 ft below land-surface datum, Sept. 18, 1955.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.50	32.24	32.06	32.40	31.63	31.15	30.99	30.63	30.61	30.66	30.55	30.68
2	32.55	32.20	32.09	32.26	31.63	31.10	30.96	30.69	30.56	30.67	30.56	30.65
3	32.49	32.27	32.05	32.19	31.62	31.27	30.87	30.71	30.57	30.70	30.52	30.72
4	32.45	32.29	32.13	32.10	31.63	31.23	30.87	30.69	30.52	30.58	30.52	30.75
5	32.35	32.57	32.04	32.26	31.57	31.08	30.95	30.67	30.56	30.55	30.59	30.80
6	32.45	32.69	32.12	32.37	31.55	31.07	30.86	30.73	30.51	30.52	30.63	30.81
7	32.52	32.72	32.09	32.35	31.48	31.18	30.84	30.72	30.50	30.46	30.68	30.75
8	32.55	32.84	32.04	32.36	31.43	31.24	30.83	30.70	30.50	30.46	30.70	30.74
9	32.50	32.81	32.10	32.25	31.46	31.26	30.84	30.74	30.43	30.48	30.70	30.72
10	32.50	32.51	32.10	32.22	31.40	31.27	30.82	30.77	30.46	30.53	30.62	30.81
11	32.53	32.66	32.05	32.03	31.42	31.19	30.79	30.67	30.45	30.55	30.53	30.82
12	32.52	32.87	32.01	31.98	31.62	31.09	30.92	30.66	30.50	30.51	30.56	30.76
13	32.47	32.83	31.98	31.93	31.45	31.04	30.79	30.63	30.51	30.49	30.60	30.71
14	32.43	32.91	31.95	31.88	31.34	31.03	30.84	30.60	30.55	30.47	30.64	30.68
15	32.39	32.77	31.98	31.96	31.36	31.02	30.73	30.59	30.51	30.53	30.66	30.60
16	32.42	32.60	31.99	31.86	31.38	31.02	30.79	30.62	30.52	30.60	30.65	30.56
17	32.43	32.47	31.97	31.83	31.27	31.01	30.82	30.63	30.54	30.66	30.64	30.63
18	32.40	32.38	31.90	31.77	31.33	31.02	30.74	30.71	30.52	30.67	30.59	30.69
19	32.46	32.35	31.83	31.93	31.25	30.93	30.80	30.68	30.55	30.61	30.69	30.63
20	32.37	32.29	31.99	32.13	31.24	31.01	30.77	30.69	30.61	30.59	30.74	30.66
21	32.31	32.26	31.94	32.24	31.25	31.08	30.85	30.79	30.65	30.48	30.74	30.56
22	32.35	32.24	31.95	32.20	31.21	31.07	30.83	30.80	30.63	30.50	30.74	30.56
23	32.36	32.20	32.12	31.96	31.15	31.11	30.83	30.81	30.64	30.53	30.75	30.63
24	32.34	32.26	32.31	31.89	31.31	31.00	30.80	30.80	30.64	30.55	30.74	30.60
25	32.36	32.19	32.30	31.90	31.25	30.96	30.68	30.77	30.71	30.57	30.65	30.63
26	32.27	32.13	32.07	31.79	31.17	31.12	30.68	30.66	30.70	30.61	30.64	30.58
27	32.19	32.07	32.21	31.82	31.15	31.18	30.80	30.60	30.66	30.61	30.69	30.62
28	32.24	32.21	32.18	31.80	31.24	30.98	30.79	30.62	30.66	30.58	30.73	30.63
29	32.34	32.18	32.25	31.68	31.28	30.96	30.64	30.63	30.65	30.58	30.74	30.62
30	32.32	32.13	32.27	31.66	---	30.93	30.66	30.66	30.60	30.56	30.76	30.63
31	32.27	---	32.32	31.65	---	30.89	---	30.64	---	30.57	30.72	---
MAX	32.55	32.91	32.32	32.40	31.63	31.27	30.99	30.81	30.71	30.70	30.76	30.82
MIN	32.19	32.07	31.83	31.65	31.15	30.89	30.64	30.59	30.43	30.46	30.52	30.56

WTR YR 1996 HIGH 30.43 LOW 32.91



GROUND-WATER LEVELS

JEFFERSON COUNTY

381447085454001. Local number 45-14-66, (owner's number 5), map number 46.

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, cased to 121 ft, open-hole 121-190 ft.

INSTRUMENTATION.--Continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 455.83 ft above sea level. Measuring point: Top of metal well cover, 15.87 ft below land-surface datum.

REMARKS.--Earthquake monitor well. Water-quality samples collected Aug. 29, 1949 and Aug. 18, 1950.

PERIOD OF RECORD.--October 1953 to current year. October 1953 to September 1976 published in hydrograph form and on file at district office.

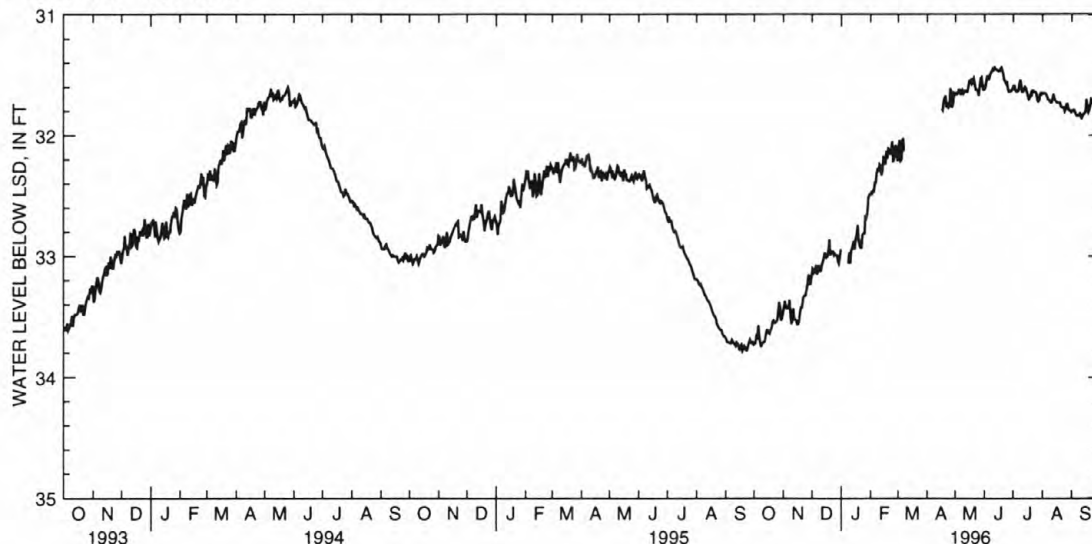
EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 28.80 ft below land-surface datum, June 2, 1984; lowest, 86.85 ft below land-surface datum, Sept. 20, 1955.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.72	33.42	33.11	---	32.47	32.10	---	31.65	31.61	31.59	31.65	31.80
2	33.72	33.37	33.13	---	32.48	32.04	---	31.66	31.56	31.59	31.65	31.79
3	33.66	33.41	33.10	---	32.46	32.21	---	31.65	31.51	31.63	31.65	31.79
4	33.67	33.43	33.14	---	32.47	32.20	---	31.62	31.51	31.64	31.66	31.81
5	33.57	33.43	33.07	---	32.39	32.04	---	31.62	31.54	31.64	31.67	31.83
6	33.65	33.42	33.15	---	32.39	32.02	---	31.66	31.50	31.63	31.70	31.84
7	33.72	33.36	33.11	---	32.31	32.13	---	31.66	31.48	31.57	31.71	31.84
8	33.75	33.50	33.07	33.06	32.27	---	---	31.63	31.47	31.54	31.71	31.83
9	33.72	33.56	33.12	32.97	32.30	---	---	31.65	31.45	31.58	31.73	31.82
10	33.71	33.51	33.12	33.06	32.24	---	---	31.63	31.46	31.64	31.73	31.85
11	33.71	33.43	33.07	32.95	32.25	---	---	31.63	31.44	31.64	31.70	31.86
12	33.70	33.52	33.04	32.93	32.33	---	---	31.64	31.45	31.62	31.66	31.84
13	33.65	33.52	33.01	32.89	32.28	---	---	31.64	31.46	31.60	31.69	31.82
14	33.61	33.53	32.97	32.87	32.17	---	---	31.60	31.46	31.61	31.71	31.82
15	33.61	33.56	32.99	32.94	32.21	---	---	31.55	31.47	31.64	31.72	31.80
16	33.63	33.56	33.01	32.85	32.24	---	31.78	31.55	31.47	31.68	31.73	31.70
17	33.64	33.53	33.00	32.82	32.13	---	31.79	31.54	31.45	31.70	31.73	31.78
18	33.61	33.46	32.94	32.74	32.19	---	31.71	31.57	31.44	31.69	31.73	31.81
19	33.59	33.42	32.86	32.86	32.11	---	31.69	31.55	31.46	31.66	31.73	31.79
20	33.54	33.42	32.99	32.91	32.12	---	31.67	31.53	31.49	31.68	31.76	31.75
21	33.53	33.35	32.96	32.93	32.14	---	31.77	31.58	31.54	31.63	31.77	31.70
22	33.55	33.33	32.96	32.93	32.11	---	31.73	31.62	31.55	31.63	31.77	31.71
23	33.55	33.33	32.96	32.82	32.05	---	31.77	31.62	31.57	31.64	31.77	31.73
24	33.54	33.32	32.99	32.81	32.22	---	31.76	31.62	31.55	31.64	31.80	31.72
25	33.53	33.27	32.98	32.81	32.20	---	31.61	31.67	31.62	31.65	31.78	31.73
26	33.46	33.22	32.99	32.66	32.11	---	31.65	31.60	31.64	31.71	31.74	31.69
27	33.38	33.15	32.99	32.68	32.08	---	31.77	31.53	31.64	31.72	31.74	31.68
28	33.42	33.23	33.04	32.64	32.16	---	31.74	31.52	31.63	31.71	31.79	31.73
29	33.53	33.23	33.06	32.52	32.21	---	31.65	31.57	31.63	31.66	31.79	31.74
30	33.51	33.17	33.01	32.49	---	---	31.66	31.62	31.61	31.65	31.80	31.73
31	33.47	---	32.94	32.49	---	---	---	31.62	---	31.66	31.81	---
MAX	33.75	33.56	33.15	---	32.48	---	---	31.67	31.64	31.72	31.81	31.86
MIN	33.38	33.15	32.86	---	32.05	---	---	31.52	31.44	31.54	31.65	31.68

WTR YR 1996 HIGH 31.44 LOW 33.75



GROUND-WATER LEVELS

249

JEFFERSON COUNTY

381501085464601. Local number CP 10, map number 47.

LOCATION.--Lat 38° 15' 01", long 85° 46' 46", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at the center of the west side of Sheppard Park, 10 ft south of a concrete walkway, 17 ft east of south 17th Street, 150 ft north of the junction of Magazine and South 17th Street, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 59.0 ft, screened 56.0-59.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 460.73 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--August 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.65 ft below land-surface datum, Oct. 31, 1984; lowest measured, 45.14 ft below land-surface datum, Aug. 4, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	37.45	May 20, 1996	36.55

381503085453301. Local number 45-15-36, map number 48.

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: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 10 in., depth 104 ft, screened 84-104 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 460.00 ft above sea level. 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 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	39.32	May 20, 1996	36.56

381504085443202. Local number CP 7A, map number 49.

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: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 84.6 ft, screened 71.1-74.1 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 467.19 ft above sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Replaces destroyed well 381504085443201 (CP 7), which was 10 ft north.

PERIOD OF RECORD.--July 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.42 ft below land-surface datum, Apr. 24, 1984; lowest measured, 47.69 ft below land-surface datum, Oct. 25, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	47.69	May 20, 1996	44.67

GROUND-WATER LEVELS

JEFFERSON COUNTY

381508085455701. Local number CP 4, map number 50.

LOCATION.--Lat 38°15'08", long 85°45'57", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at the southwest corner of Beecher Park, 15 ft west of the South 9th Street sidewalk, 20 ft north of the Walnut Street sidewalk, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 109.8 ft, screened 106.8-109.8 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 459.47 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--July 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.43 ft below land-surface datum, Apr. 24, 1984; lowest measured, 43.31 ft below land-surface datum, Aug. 4, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	38.45	May 20, 1996	36.17

381518085454401. Local number 86-10 (Mazzoni), map number 51.

LOCATION.--Lat 38°15'18", long 85°45'44", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, southwest side of Congress Alley and 7th Street, 3 ft south of alley, west of entrance to parking garage. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2.5 in., depth 98 ft, screened 41-43 ft, 61-63 ft, 96-98 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 455.13 ft above sea level. 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, 32.73 ft below land-surface datum, Nov. 18, 1986; lowest, 37.14 ft below land-surface datum, Aug. 24, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	36.27	May 20, 1996	33.29

381518085453402. Local number 86-11 (Courthouse Annex), map number 52.

LOCATION.--Lat 38°15'18", long 85°45'34", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at northwest corner behind Courthouse Annex building between 5th and 6th Streets, east of walkway to parking garage. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2.5 in., depth 102 ft, screened 42-44 ft, 61-63 ft, 99-101 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 461.63 ft above sea level. 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, 40.24 ft below land-surface datum, Nov. 18, 1986; lowest, 46.82 ft below land-surface datum, July 27, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	44.75	May 20, 1996	41.55

GROUND-WATER LEVELS

251

JEFFERSON COUNTY

381518085451801. Local number 87-1 (Levy's), map number 53.

LOCATION.--Lat 38°15'18", long 85°45'18", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at 3rd and Market Streets, in west corner of basement in old Levy's building, under east sidewalk on 3rd Street. Owner: Metts Co., Inc.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in., depth 99 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 464.72 ft above sea level. Measuring point: Top of casing, 11.5 ft below land-surface datum.

REMARKS.--Water levels affected by Ohio River stage and pumping from nearby wells.

PERIOD OF RECORD.--January 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 43.46 ft below land-surface datum, Apr. 10, 1989; lowest, 49.26 ft below land-surface datum, July 27, 28, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	47.77	May 20, 1996	Destroyed

GROUND-WATER LEVELS

JEFFERSON COUNTY

381527085453001. Local number 86-7 (Belvedere Well), map number 54.

LOCATION.--Lat 38° 15' 27", long 85° 45' 30", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at Place Montpelier and Main Street, 3 ft east of east sidewalk. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2.5 in., depth 89.9 ft, screened 85.1-87.1 ft.

INSTRUMENTATION.--Continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 452.43 ft above sea level. 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.

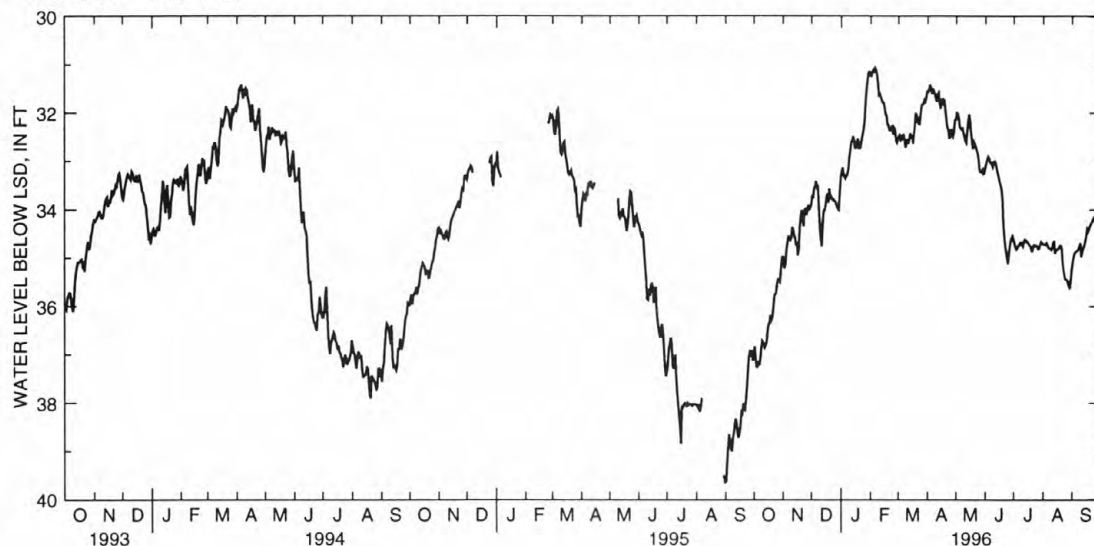
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 30.99 ft below land-surface datum, Nov. 11 1986; lowest, 39.64 ft below land-surface datum, Sept. 2-3, 1993, Aug. 31, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.83	35.07	33.70	33.20	31.25	32.49	31.56	32.00	33.05	34.70	34.71	35.08
2	37.04	35.21	33.76	33.13	31.15	32.43	31.51	32.01	32.96	34.79	34.71	34.96
3	37.24	35.12	33.56	33.29	31.11	32.56	31.41	32.10	32.90	34.82	34.73	34.90
4	37.25	34.83	33.53	33.32	31.13	32.54	31.49	32.28	32.93	34.80	34.69	34.87
5	37.13	34.68	33.41	33.35	31.07	32.52	31.60	32.32	33.02	34.74	34.73	34.86
6	37.22	34.54	33.53	33.29	31.11	32.43	31.49	32.34	33.02	34.74	34.79	34.84
7	37.10	34.62	33.49	33.28	31.21	32.56	31.54	32.32	33.07	34.67	34.80	34.81
8	36.88	34.63	33.96	33.16	31.41	32.71	31.59	32.41	33.11	34.67	34.81	34.74
9	36.71	34.58	34.35	32.92	31.66	32.63	31.68	32.48	33.01	34.73	34.83	34.69
10	36.74	34.36	34.59	32.77	31.61	32.54	31.76	32.57	33.00	34.76	34.78	34.97
11	36.79	34.41	34.76	32.60	31.66	32.63	31.62	32.61	33.03	34.65	34.69	34.87
12	36.85	34.54	34.31	32.57	31.75	32.53	31.58	32.38	33.14	34.62	34.64	34.80
13	36.81	34.57	34.02	32.48	31.78	32.42	31.80	32.14	33.24	34.66	34.91	34.75
14	36.73	34.74	34.02	32.55	31.79	32.52	31.91	32.03	33.32	34.65	34.83	34.66
15	36.52	34.67	33.93	32.72	31.88	32.46	31.75	32.18	33.42	34.68	34.83	34.55
16	36.36	34.95	33.76	32.72	32.02	32.63	31.79	32.43	33.49	34.71	34.82	34.40
17	36.35	34.81	33.67	32.63	32.05	32.43	31.71	32.61	33.58	34.74	34.79	34.45
18	36.18	34.35	33.85	32.53	32.24	32.24	31.73	32.74	33.78	34.76	34.74	34.40
19	36.28	34.13	33.56	32.73	32.25	32.00	31.95	32.59	34.21	34.85	34.74	34.33
20	36.23	34.01	33.75	32.73	32.35	32.05	32.14	32.63	34.50	34.85	34.77	34.29
21	36.02	34.11	33.73	32.70	32.36	32.16	32.30	32.70	34.72	34.74	35.06	34.26
22	35.78	34.34	33.79	32.54	32.29	32.22	32.34	32.78	34.87	34.73	35.23	34.22
23	35.74	34.00	33.78	32.42	32.27	32.23	32.53	32.84	34.99	34.75	35.35	34.17
24	35.72	33.99	33.82	32.32	32.45	32.02	32.48	32.99	35.12	34.74	35.43	34.21
25	35.54	34.11	33.82	32.16	32.31	31.84	32.33	33.20	34.93	34.76	35.44	34.20
26	35.44	34.03	33.87	31.77	32.34	31.82	32.44	33.23	34.75	34.81	35.45	34.13
27	35.45	33.91	33.93	31.50	32.56	31.81	32.48	33.23	34.63	34.80	35.52	34.17
28	35.48	34.01	33.98	31.32	32.61	31.73	32.39	33.18	34.57	34.72	35.58	34.16
29	35.24	33.95	34.00	31.16	32.53	31.76	32.15	33.26	34.54	34.66	35.63	34.03
30	35.02	33.91	33.65	31.15	---	31.67	32.14	33.25	34.62	34.68	35.40	33.91
31	34.96	---	33.35	31.18	---	31.55	---	33.13	---	34.71	35.23	---
MAX	37.25	35.21	34.76	33.35	32.61	32.71	32.53	33.26	35.12	34.85	35.63	35.08
MIN	34.96	33.91	33.35	31.15	31.07	31.55	31.41	32.00	32.90	34.62	34.64	33.91

WTR YR 1996 HIGH 31.07 LOW 37.25



GROUND-WATER LEVELS

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JEFFERSON COUNTY

381539085465201. Local number CP 9, map number 55.

LOCATION.--Lat 38° 15' 39", long 85° 46' 52", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at the southeast corner of Boone Square Park, 20 ft north of Rowan Street, 150 ft west of South 19th Street, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 42.7 ft, screened 39.7-42.7 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 456.99 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--July 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.38 ft below land-surface datum, Apr. 24, 1985; lowest measured, 40.51 ft below land-surface datum, July 12, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	34.11	May 20, 1996	33.13

381543085480101. Local number CP 14, map number 56.

LOCATION.--Lat 38° 15' 43", long 85° 48' 01", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at the southwest corner of Westonia Park, South 30th Street at an unnamed alley south of Rowan Street, 5 ft north of curb on north side of alley, 8 ft east of a telephone pole at the curb on east side of South 30th Street, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 45 ft, screened 43-45 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 455.71 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--July 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.35 ft below land-surface datum, Aug. 25, 1980; lowest measured, 36.13 ft below land-surface datum, Dec. 13, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	34.30	May 20, 1996	33.93

381553085431602. Local number M-2, map number 57.

LOCATION.--Lat 38° 15' 53", long 85° 43' 16", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, 15 ft west of the northwest corner of Metropolitan Sewer District, Beargrass Creek Pump Station Building, 100 ft west of end of Letterle Avenue, 150 ft south of I-71, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 98 ft, screened 96-98 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 446.77 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--December 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.93 ft below land-surface datum, Dec. 15, 1978; lowest measured, 28.71 ft below land-surface datum, Oct. 25, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	28.71	May 20, 1996	18.52

GROUND-WATER LEVELS

JEFFERSON COUNTY

381604085430501. Local number 43-16-8, (WC-1), map number 58.

LOCATION.--Lat 38° 16' 04", long 85° 43' 05", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, 100 ft northeast of junction of River Road and entrance road to Bandman Park, 0.2 mi east of Beargrass Creek, in Louisville. Owner: Louisville Water Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4 in., depth 101 ft, screened 99-101 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 438.88 ft above sea level. Measuring point: Floor of recorder shelter, 4.83 ft above land-surface datum.

REMARKS.--Water levels affected by Ohio River. Water-quality samples collected Apr. 2, 1944 and July 10, 1979.

PERIOD OF RECORD.--May 1946 to current year. May 1946 to September 1976 published in hydrograph form and on file at district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 0.09 ft below land-surface datum, Sept. 14, 1979; lowest measured, 27.90 ft below land-surface datum, Feb. 10, 1948.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	17.68	May 20, 1996	16.91

381607085483601. Local number CP 3, map number 59.

LOCATION.--Lat 38° 16' 07", long 85° 48' 36", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at the northwest corner of Taylor Park, 150 ft east of North 38th Street, 200 ft north of Jewell Street, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 55.7 ft, screened 52.7-55.7 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 445.33 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--June 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.97 ft below land-surface datum, May 6, 1991; lowest measured, 46.67 ft below land-surface datum, June 29, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	33.22	May 20, 1996	30.82

GROUND-WATER LEVELS

255

JEFFERSON COUNTY

381638085415801. Local number 41-16-3, (WC-4), map number 60.

LOCATION.--Lat 38 16'38", long 85 41'58", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, at the northwest corner of River Road and Zorn Avenue, in Louisville. Owner: Louisville Water Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in., depth 104 ft, screened 98-100 ft.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 435.79 ft above sea level. 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. Water-quality sample collected July 10, 1979.

PERIOD OF RECORD.--April 1946 to current year.

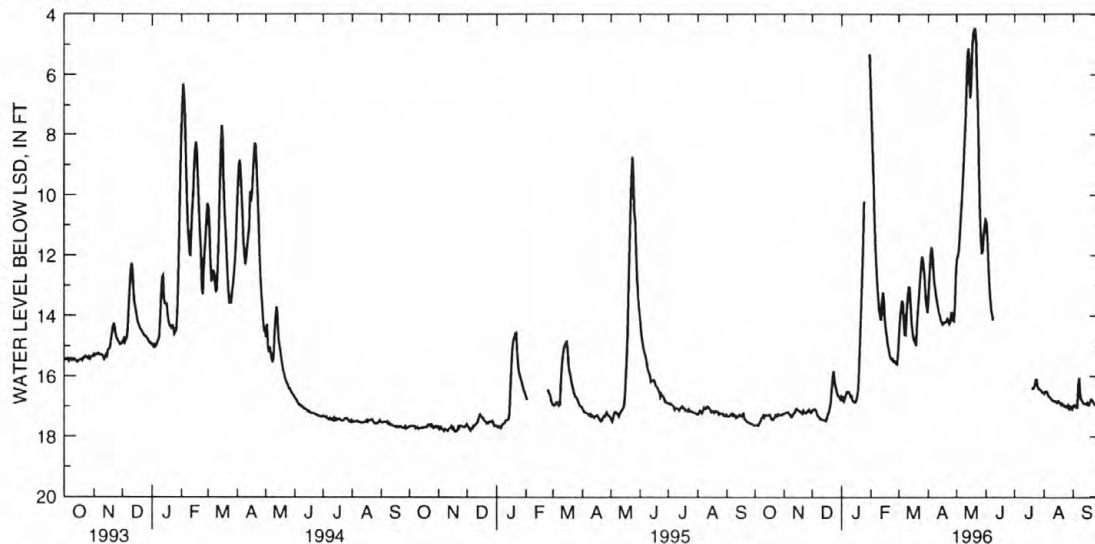
EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 3.71 ft above land-surface datum, Mar. 13, 1967; lowest, 19.61 ft below land-surface datum, Feb. 13, 1948.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.62	17.23	17.10	16.76	7.38	14.56	13.35	12.11	10.89	---	16.57	16.97
2	17.61	17.21	17.10	16.71	8.47	14.04	12.63	12.01	11.36	---	16.50	16.95
3	17.62	17.20	17.08	16.81	9.46	13.73	11.99	11.81	12.30	---	16.50	16.96
4	17.63	17.19	17.10	16.74	10.56	13.49	11.72	11.28	12.99	---	16.51	17.04
5	17.54	17.19	17.19	16.63	11.63	13.59	11.89	10.71	13.46	---	16.63	17.03
6	17.52	17.26	17.29	16.51	12.36	14.20	12.49	10.19	13.85	---	16.68	16.26
7	17.40	17.27	17.34	16.51	12.94	14.62	12.88	9.58	13.98	---	16.69	16.04
8	17.35	17.35	17.35	16.51	13.39	14.63	13.10	9.04	14.13	---	16.74	16.59
9	17.30	17.34	17.42	16.58	13.83	13.90	13.36	8.26	---	---	16.78	16.77
10	17.36	17.27	17.42	16.68	14.00	13.37	13.56	7.54	---	---	16.79	16.78
11	17.28	17.21	17.43	16.65	14.13	13.05	13.72	6.48	---	---	16.82	16.86
12	17.29	17.21	17.44	16.81	13.55	13.06	13.90	5.37	---	---	16.83	16.90
13	17.29	17.08	17.45	16.83	13.22	13.56	13.99	5.11	---	---	16.82	16.90
14	17.29	17.07	17.46	16.85	13.43	14.19	14.14	5.89	---	---	16.88	16.91
15	17.28	17.10	17.48	16.86	14.10	14.53	14.21	6.75	---	---	16.88	16.92
16	17.27	17.13	17.38	16.80	14.45	14.74	14.28	6.22	---	---	16.82	16.87
17	17.35	17.16	17.25	16.64	14.67	14.83	14.25	5.03	---	---	16.85	16.96
18	17.43	17.17	17.19	16.43	14.93	14.88	14.20	4.65	---	---	16.89	16.95
19	17.44	17.23	17.03	15.61	15.09	14.98	14.21	4.48	---	16.37	16.95	16.84
20	17.43	17.24	16.85	14.64	15.28	14.21	14.16	4.47	---	16.40	16.91	16.77
21	17.36	17.14	16.40	13.71	15.39	13.69	14.10	4.88	---	16.38	16.95	16.79
22	17.29	17.21	16.00	12.68	15.44	13.29	14.17	6.13	---	16.30	16.99	16.83
23	17.33	17.21	15.83	11.64	15.41	12.81	14.26	7.14	---	16.09	16.97	16.90
24	17.32	17.22	16.09	10.21	15.50	12.36	14.20	9.00	---	16.09	17.02	16.93
25	17.25	17.18	16.31	---	15.49	12.04	13.86	10.45	---	16.33	17.02	16.97
26	17.28	17.14	16.44	---	15.52	12.15	13.97	11.38	---	16.40	16.96	16.96
27	17.28	17.10	16.58	---	15.58	12.40	14.14	11.94	---	16.42	17.06	16.93
28	17.27	17.18	16.65	---	15.59	12.79	14.16	11.84	---	16.46	17.00	16.83
29	17.28	17.21	16.67	---	15.16	13.45	13.60	11.43	---	16.48	17.06	16.72
30	17.26	17.17	16.74	5.30	---	13.70	12.54	11.04	---	16.53	17.01	16.67
31	17.22	---	16.67	6.28	---	13.89	---	10.83	---	16.54	17.06	---
MAX	17.63	17.35	17.48	---	15.59	14.98	14.28	12.11	---	---	17.06	17.04
MIN	17.22	17.07	15.83	---	7.38	12.04	11.72	4.47	---	---	16.50	16.04

WTR YR 1996 HIGH 4.47 LOW 17.63



GROUND-WATER LEVELS

JEFFERSON COUNTY

381648085421201. Local number 42-16-15, (WC-5), map number 61.

LOCATION.--Lat 38°16'48", long 85°42'12", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, 200 ft west of Louisville Water Company pump house, 200 ft south of the Ohio River, 0.2 mi northwest of junction of River Road and Zorn Avenue, in Louisville. Owner: Louisville Water Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4 in., depth 98 ft, screened 96-98 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 435.11 ft above sea level. 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 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	16.81	May 20, 1996	8.11

381653085413302. Local number (WC-9A), map number 62.

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 observation water-table well, diameter 1.5 in., depth 90 ft, screened 76-78 ft, 88-90 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 437.65 ft above sea level. 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 measured, 6.40 ft below land-surface datum, May 20, 1996; lowest measured, 19.04 ft below land-surface datum, July 21, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	18.80	May 20, 1996	6.40

LARUE COUNTY

374151085413201. Map number 11.

LOCATION.--Lat 37°41'51", long 85°41'32", Hydrologic Unit 05110001, County Code 123, Nelsonville quadrangle, 150 ft west of blacktop road, 1.6 mi northeast of Roanoke, 2.8 mi south of the junction of State Highway 583 and the Blue Grass Parkway. Owner: Charles Wagner.

AQUIFER.--Warsaw Limestone of Late Mississippian age. Aquifer code: 333WRSW.

WELL CHARACTERISTICS.--Drilled unused artesian oil test well, diameter 10 in., depth 605 ft, plugged at 363 ft, cased to 65 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 905.34 ft above sea level. Measuring point: Top of casing 1.00 ft above land-surface datum.

REMARKS.--Quality water sample collected and pump test run Apr. 10, 1971. Pumped for 3 hours at 9 gal/min with 4.1 ft of drawdown.

PERIOD OF RECORD.--October 1971 to April 1983 and October 1988 to current year. October 1971 to September 1976 published in hydrograph form and on file at district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 101.81 ft below land-surface datum, Apr. 14, 1980; lowest measured, 111.22 ft below land-surface datum, Nov. 12, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 1, 1995	109.85	Jan. 23, 1996	110.07	Mar. 29, 1996	109.63

GROUND-WATER LEVELS

257

LAUREL COUNTY

370757084045001. Map number 12.

LOCATION.--Lat 37°07'57", long 84°04'50". Hydrologic Unit 05130101, County Code 125, London quadrangle, in back yard at 116 Boering Drive, 0.1 mi northeast of Marymount Hospital, in London. Owner: J.R. Hale.

AQUIFER.--Lee Formation of Early Pennsylvanian age. Aquifer Code: 327LEE.

WELL CHARACTERISTICS.--Drilled unused artesian and water-table well in sandstone, diameter 12 in., depth 370 ft, length of casing unknown, open hole below casing.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is about 1,190 ft above sea level. Measuring point: Floor of recorder shelter, 4.13 ft above land-surface datum.

REMARKS.--Lowest water level is a pumping level. Water-quality sample collected and pump test ran Oct. 14, 1965. Pumped 1.2 hours at 11 gal/min with 47.30 ft of drawdown.

PERIOD OF RECORD.--October 1947, May 1951 to September 1962, June 1965 to September 1984 and October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.69 ft below land-surface datum, May 9, 1990, lowest measured, 225.00 ft below land-surface datum, Oct. 25, 1947.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 25, 1995	42.34	Jan. 26, 1996	41.67	Mar. 11, 1996	42.09

LINCOLN COUNTY

372739084402101. Map number 13.

LOCATION.--Lat 37°27'39", long 84°40'21". Hydrologic Unit 05110001, County Code 137, Halls Gap quadrangle, in a pasture, 100 ft north of gravel road, 0.8 mi northeast of Green River Church, 2.1 mi southwest of Halls Gap. Owner: Sarah Peck.

AQUIFER.--Sandstone and shale of Borden Formation of Early Mississippian age. Aquifer code: 338BRDN.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in., depth 33 ft, cased to 10 ft, open hole 10 to 33 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is 1,060 ft above sea level. Measuring point: Floor of recorder shelter, 2.25 above land-surface datum.

REMARKS.--Water levels affected by atmospheric pressure.

PERIOD OF RECORD.--April 1953 to September 1984 and October 1988 to current year. Well test pump, Oct. 14, 1965. Estimated yield base on recovery, 0.1 gal/min.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.30 ft below land-surface datum, Nov. 6, 1981; lowest measured, 11.39 ft below land-surface datum, Oct. 3, 1995..

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 3, 1995	11.39	Jan. 11, 1996	8.85	Mar. 28, 1996	8.16
Nov. 30, 1995	10.38	Feb. 14, 1996	8.32		

LOGAN COUNTY

365046086444901. Map number 14.

LOCATION.--Lat 36°50'46", long 86°44'49". Hydrologic Unit 05130206, County Code 141, Auburn quadrangle, at the southeast corner of an abandoned farmhouse, 90 ft east of Kentucky Highway 980, 0.6 mi south of U.S. Highway 68, 2.4 mi southwest of Auburn. Owner: W.D. Appling.

AQUIFER.--Girkin Formation of Late Mississippian age. Aquifer code: 332GRKN.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in., depth 70 ft, length of casing unknown.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is 685 ft. Measuring point: Top of casing 0.70 ft above land-surface datum.

REMARKS.--8 in. surface casing, lined with 6 in. casing.

PERIOD OF RECORD.--May to November 1982 and October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.74 ft below land-surface datum, Feb. 22, 1996; lowest measured, 49.64 ft below land-surface datum, Sept. 21, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 4, 1995	43.41	Jan. 11, 1996	38.58
Dec. 7, 1995	40.01	Feb. 22, 1996	23.74

GROUND-WATER LEVELS

MCCRACKEN COUNTY

370551088510401. Map number 15.

LOCATION.--Lat 37°05'51", long 88°51'04", Hydrologic Unit 05140206, County Code 145, Heath quadrangle, 35 ft south of a gravel road in field of brush, at former Kentucky Ordnance Works, (now managed by Kentucky Department of Fish & Wildlife Resources), 3.4 mi northwest of Heath. Owner: State of Kentucky.

AQUIFER.--Sand of McNairy Formation of Late Cretaceous age. Aquifer code: 211MCNR.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in., depth 192 ft, cased to 192 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is about 435 ft. Measuring point: Floor of recorder shelter, 4.76 ft above land-surface datum.

PERIOD OF RECORD.--October 1969 to September 1983 and October 1988 to current year. August 1969 to September 1976, published in hydrograph form and on file at Paducah subdistrict office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 105.64 ft below land-surface datum, June 27, 1994; lowest measured, 111.50 ft below land-surface datum, Jan. 25, 1972 and Nov. 9, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 10, 1995	107.63	Jan. 8, 1996	108.41
Dec. 7, 1995	108.21	Mar. 5, 1996	108.42

METCALFE COUNTY

370211085364301. Map number 16.

LOCATION.--Lat 37°02'11", long 85°36'43", Hydrologic Unit 05110001, County Code 169, East Fork quadrangle, at an old homesite 150 ft south of a blacktop road, 0.5 mi southwest of Metcalfe County Lake, 0.9 mi northwest of junction of U.S. Highway 68 and State Highway 544, 6 mi southeast of Sulphur well. Owner: Larry Froedge.

AQUIFER.--Salem and Warsaw Limestones of Late Mississippian age. Aquifer code: 333SMWR.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in., depth 106 ft, length of casing unknown.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is about 885 ft. Measuring point: Top of casing, 0.58 ft above land-surface datum.

PERIOD OF RECORD.--October 1979 to April 1983 and October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 72.67 ft below land-surface datum, Feb. 25, 1994; lowest measured, 77.88 ft below land-surface datum, Jan. 30, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 13, 1995	75.80	Jan. 19, 1996	75.03	Mar. 28, 1996	74.95
Dec. 7, 1995	75.87	Feb. 21, 1996	73.93		

WARREN COUNTY

370342086080101. Map number 17.

LOCATION.--Lat 37°03'42", long 86°08'01", Hydrologic Unit 05110002, County Code 227, Smiths grove quadrangle, in a pasture 50 ft southwest of a stone farm house, 200 ft south of State Highway 65, 0.6 mi southeast of Rocky Hill. Owner: Earl Estes.

AQUIFER.--St. Louis Limestone of Late Mississippian age. Aquifer code: 333STLS.

WELL CHARACTERISTICS.--Drilled unused artesian and water-table well, diameter 6 in., depth 95 ft, length of casing unknown.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is about 645 ft. Measuring point: Floor of recorder shelter, 2.10 ft above land-surface datum.

PERIOD OF RECORD.--November 1961 to January 1983 and October 1988 to current year. November 1961 to September 1976 published in hydrograph form and on file at district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.19 ft below land-surface datum, Mar. 15, 1975; lowest measured, 76.95 ft below land-surface datum, Dec. 31, 1962.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 5, 1995	70.24	Jan. 10, 1996	70.30
Dec. 6, 1995	70.54	Feb. 21, 1996	68.88

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.

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

CHEMICAL ANALYSES, OCTOBER 1995 TO SEPTEMBER 1996

DATE	TOTAL PRECIP- ITATION FOR DEFINED PERIOD (IN) (00193)	VOLUME ATM DEP WET (L) (83177)	PH FIELD ATM DEP WET T (UNITS) (83106)	SPEC. CONDUCTANCE FIELD ATM DEP WET TOT (US/CM) (83154)	CALCIUM ATM DEP WET DIS (MG/L) (82932)	MAG- NESIUM ATM DEP WET DIS (MG/L) (83002)	SODIUM ATM DEP WET DIS (MG/L) (83138)
OCT 1995							
03-10	3.70	6.333	--	--	<0.010	0.005	0.038
OCT							
10-17	0.96	1.636	--	--	0.280	0.048	0.040
OCT							
17-31	1.20	1.988	--	--	0.310	0.071	0.061
OCT 31-							
NOV 07	0.67	1.081	--	--	0.060	0.008	0.045
NOV							
07-21	0.72	0.001	--	--	0.320	0.026	0.038
NOV							
21-28	0.95	1.595	4.47	21.3	0.190	0.017	0.079
NOV 28-							
DEC 05	0.09	0.224	4.10	50.9	0.350	0.052	0.246
DEC							
05-12	0.15	0.163	4.28	44.4	0.390	0.041	0.066
DEC							
12-19	1.35	2.318	4.39	31.4	0.120	0.020	0.145
DEC							
19-26	0.25	0.431	4.31	26.5	0.240	0.026	0.148
DEC 26 1995-							
JAN 02 1996	0.40	0.708	4.37	27.8	0.060	0.013	0.085
JAN							
02-09	0.87	0.257	4.46	27.0	0.090	0.014	0.129
JAN							
16-23	1.00	1.763	5.01	8.4	0.070	0.012	0.085
JAN							
23-30	1.90	3.246	4.59	16.1	0.090	0.017	0.136
JAN 30-							
FEB 06	0.33	0.445	4.54	14.4	0.130	0.017	0.080
FEB							
06-13	0.40	0.644	4.29	42.5	0.320	0.045	0.324
FEB							
13-20	0.65	1.100	4.44	20.6	0.280	0.026	0.076
FEB							
20-27	0.37	0.645	4.13	61.1	0.400	0.049	0.160
FEB 27-							
MAR 05	0.35	0.577	4.67	20.2	0.170	0.028	0.191
MAR							
05-12	1.44	2.560	4.68	23.8	0.350	0.048	0.143
MAR							
12-19	1.75	2.951	4.67	17.8	0.140	0.019	0.121
MAR							
19-26	0.45	0.689	4.45	29.1	0.150	0.012	0.044
MAR 26-							
APR 02	1.60	2.832	4.63	20.2	0.060	0.007	0.045

CHEMICAL QUALITY OF PRECIPITATION

380706083324900 - CLARK STATE FISH HATCHERY, ROWAN COUNTY, KY--Continued

(National Atmospheric Deposition Program network station)

CHEMICAL ANALYSES, OCTOBER 1995 TO SEPTEMBER 1996

DATE	TOTAL PRECIP- ITATION FOR DEFINED PERIOD (IN) (00193)	VOLUME ATM DEP WET (L) (83177)	PH FIELD ATM DEP WET T (UNITS) (83106)	SPEC. CONDUCTANCE FIELD ATM DEP WET TOT (US/CM) (83154)	CALCIUM ATM DEP WET DIS (MG/L) (82932)	MAG- NESIUM ATM DEP WET DIS (MG/L) (83002)	SODIUM ATM DEP WET DIS (MG/L) (83138)
APR							
02-09	0.35	0.622	4.30	47.8	0.320	0.047	0.198
APR							
09-16	1.15	0.002	4.71	14.8	0.120	0.012	0.066
APR							
16-23	1.07	0.002	4.76	18.9	0.200	0.041	0.309
APR							
23-30	0.97	1.631	4.78	17.5	0.310	0.037	0.132
APR 30-							
MAY 07	4.70	7.921	4.57	19.6	0.230	0.026	0.071
MAY							
07-14	0.90	1.529	4.58	22.5	0.130	0.026	0.120
MAY							
14-21	2.70	0.005	4.56	21.7	0.250	0.032	0.164
MAY							
21-28	2.65	4.624	4.24	19.4	0.220	0.025	0.052
MAY 28-							
JUN 04	0.85	1.377	4.46	22.2	0.300	0.046	0.202
JUN							
04-11	1.00	1.687	4.88	8.9	0.170	0.023	0.088
JUN							
11-18	0.77	1.306	4.59	11.4	0.110	0.012	0.031
JUN							
18-25	1.80	3.081	4.34	28.8	0.260	0.028	0.044
JUL							
02-09	0.35	0.587	3.98	62.0	1.210	0.104	0.102
JUL							
09-16	2.93	5.044	4.84	11.4	0.034	0.005	0.040
JUL							
16-23	0.95	1.541	4.47	24.6	0.513	0.053	0.173
JUL							
23-30	0.40	0.685	6.36	105.0	0.473	0.335	0.070
JUL 30-							
AUG 06	0.60	1.014	3.88	14.0	0.120	0.017	0.097
AUG							
06-13	0.65	1.090	4.44	13.5	0.108	0.011	0.028
AUG							
13-20	0.55	0.915	4.20	32.2	0.223	0.035	0.041
AUG							
20-27	0.05	0.085	4.09	86.1	0.599	0.075	0.150
AUG 27-							
SEP 03	0.15	0.273	3.76	138.2	0.534	0.043	0.035
SEP							
03-10	0.40	0.727	4.23	44.2	0.186	0.021	0.064
SEP							
10-17	3.65	6.234	5.01	12.5	0.055	0.006	0.039
SEP							
17-24	0.05	0.106	4.57	43.1	0.266	0.031	0.119

CHEMICAL QUALITY OF PRECIPITATION

380706083324900 - CLARK STATE FISH HATCHERY, ROWAN COUNTY, KY--Continued

(National Atmospheric Deposition Program network station)

CHEMICAL ANALYSES, OCTOBER 1995 TO SEPTEMBER 1996

DATE	POTAS-	SULFATE	CHLO-	NI-	NI-	PHOS-
	SIUM	ATM DEP	RIDE	TROGEN	TROGEN	PHORUS
	ATM DEP	WET DIS	ATM DEP	NITRATE	AMMON.	ORTHO
	WET DIS	AS SO4	WET DIS	ATM DEP	ATM DEP	ATM DEP
	(MG/L)	(MG/L)	(MG/L)	WET DIS	WET DIS	WET DIS
	(83120)	(83160)	(82944)	AS NO3	AS NH4	AS PO4
				(MG/L)	(MG/L)	(MG/L)
				(83071)	(83047)	(83111)
OCT 1995						
03-10	0.009	0.57	0.06	0.32	0.04	<0.003
OCT						
10-17	0.020	1.28	0.08	0.98	0.16	<0.003
OCT						
17-31	0.052	1.27	0.13	0.87	0.19	<0.003
OCT 31-						
NOV 07	0.016	0.78	0.09	1.07	0.14	<0.003
NOV						
07-21	0.028	1.01	0.05	0.74	0.06	<0.003
NOV						
21-28	0.019	1.77	0.11	1.50	0.32	<0.003
NOV 28-						
DEC 05	0.037	3.34	0.34	4.41	0.49	<0.003
DEC						
05-12	0.027	2.87	0.34	3.90	0.39	<0.003
DEC						
12-19	0.020	2.20	0.20	2.04	0.28	<0.003
DEC						
19-26	0.013	2.12	0.22	1.99	0.23	<0.003
DEC 26 1995-						
JAN 02 1996	0.016	2.49	0.20	1.76	0.21	<0.003
JAN						
02-09	0.022	2.98	0.17	0.91	0.32	<0.003
JAN						
16-23	0.009	0.63	0.11	0.42	0.05	<0.003
JAN						
23-30	0.013	1.19	0.21	0.81	0.09	<0.003
JAN 30-						
FEB 06	0.003	0.39	0.15	1.77	0.04	<0.003
FEB						
06-13	0.033	3.92	0.49	3.68	0.97	<0.003
FEB						
13-20	0.010	1.36	0.13	1.65	0.07	<0.003
FEB						
20-27	0.030	4.64	0.32	4.85	0.90	<0.003
FEB 27-						
MAR 05	0.032	1.59	0.24	1.36	0.25	<0.003
MAR						
05-12	0.023	2.19	0.23	1.78	0.18	<0.003
MAR						
12-19	0.010	1.42	0.15	1.09	0.19	<0.003
MAR						
19-26	0.005	1.52	0.09	2.55	0.22	<0.003
MAR 26-						
APR 02	0.005	1.42	0.07	1.16	0.13	<0.003

CHEMICAL QUALITY OF PRECIPITATION

380706083324900 - CLARK STATE FISH HATCHERY, ROWAN COUNTY, KY--Continued

(National Atmospheric Deposition Program network station)

CHEMICAL ANALYSES, OCTOBER 1995 TO SEPTEMBER 1996

DATE	POTAS-	SULFATE	CHLO-	NI-	NI-	PHOS-
	SIUM	ATM DEP	RIDE	TROGEN	TROGEN	PHORUS
	ATM DEP	WET DIS	ATM DEP	NITRATE	AMMON.	ORTHO
	WET DIS (MG/L) (83120)	AS SO4 (MG/L) (83160)	WET DIS (MG/L) (82944)	WET DIS (MG/L) (83071)	WET DIS (MG/L) (83047)	WET DIS (MG/L) (83111)
APR						
02-09	0.024	4.05	0.28	3.61	0.73	<0.003
APR						
09-16	0.014	1.41	0.09	1.03	0.24	<0.003
APR						
16-23	0.029	1.91	0.42	1.46	0.42	0.008
APR						
23-30	0.066	1.74	0.19	1.51	0.34	<0.003
APR 30-						
MAY 07	0.058	2.07	0.12	1.48	0.39	<0.003
MAY						
07-14	0.063	1.91	0.19	1.43	0.23	<0.003
MAY						
14-21	0.038	2.17	0.25	1.78	0.52	<0.003
MAY						
21-28	0.055	2.11	0.11	1.44	0.40	<0.003
MAY 28-						
JUN 04	0.070	2.28	0.30	2.02	0.53	<0.003
JUN						
04-11	0.039	0.82	0.13	0.80	0.21	0.004
JUN						
11-18	0.016	1.03	0.05	0.94	0.27	<0.003
JUN						
18-25	0.047	3.11	0.14	2.00	0.53	<0.003
JUL						
02-09	0.117	6.64	0.29	6.03	1.34	<0.003
JUL						
09-16	0.008	0.99	0.06	0.61	0.13	<0.003
JUL						
16-23	0.056	2.40	0.25	2.82	0.63	<0.003
JUL						
23-30	2.40	5.85	1.09	3.95	8.89	2.500
JUL 30-						
AUG 06	0.028	1.07	0.12	1.03	0.31	<0.003
AUG						
06-13	0.004	0.97	0.06	1.05	0.12	<0.003
AUG						
13-20	0.054	3.08	0.10	2.01	0.34	<0.003
AUG						
20-27	0.052	7.78	0.49	5.41	0.75	<0.009
AUG 27-						
SEP 03	0.030	11.6	0.31	7.95	0.80	<0.003
SEP						
03-10	0.016	3.95	0.18	2.92	0.38	<0.003
SEP						
10-17	<0.003	1.19	0.05	0.71	0.14	<0.003
SEP						
17-24	0.015	4.07	0.25	2.87	0.46	<0.003

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

STATION NAME AND LOCATION	STATION NUMBER	DRAINAGE AREA (MI ²)	PERIOD OF RECORD	COMPLETE FLOW	COM- PLETE STAGE	PEAK FLOW	LOW FLOW	MISC FLOW MEAS
CARD CR AT MOUTHCARD, KY	03207845	4.18	1973-75	E	E			
FEDS CR AT FEDS CR, KY	03207875	11.60	1973-75	E	E			
BIG CR AT DUNLAP, KY	03207905	9.55	1974-76	E	E			
ELKFOOT BRANCH NR NIGH, KY	03207915	.70	1980-84	E	E			
ISLAND CR NR PHYLLIS, KY	03207925	2.42	1974	E	E			
LICK CR AT LICK CR, KY	03207935	6.70	1973-76	E	E			
MILLERS CR NR PHYLLIS, KY	03207940	1.68	1973-75	E	E			
DICKS FK AT PHYLLIS, KY	03207962	.82	1975-84	E	E			
GRAPEVINE CR NR PHYLLIS, KY	03207965	6.20	1974-82	E		E	E	
			1989-92					
LEVISA FK BELOW FISHTRAP DAM, NR MILLARD, KY	03208000	392	1938-92*	E		C	E	
ELKHORN CR NR ELKHORN CITY, KY	03209400	48.80	1967-72	E		E	E	
SHELBY CR AT DORTON, KY	03209440	12.60	1971-76*	E	E	E	E	
SHELBY CR AT SHELBIANA, KY	03209460	112.00	1965				E	
			1972-81					
MUD CR AT HAROLD, KY	03209545	51.90	1975-81				E	
BILL D BR NR KITE, KY	03209575	3.17	1976-86			E		
RIGHT FK BEAVER CR AT WAYLAND, KY	03209600	73.90	1959-75				E	
BEAVER CR AT MARTIN, KY	03209700	228.00	1953-72				E	
LEVISA FK AT PRESTONSBURG, KY	03209800	1702.00	1964-81		E			
MIDDLE CR NR PRESTONSBURG, KY	03209890	62.10	1975-81				E	
RACCOON CR NR ZEBULON, KY	03210040	14.80	1974-75*	E	E			
CANEY FK NR GULNARE, KY	03210160	3.74	1974-75*	E	E	E		
BRUSHY FK AT HEENON, KY	03210310	20.40	1974-76	E	E			
BUFFALO CR NR ENDICOTT, KY	03210420	6.21	1974-75*	E	E			
JOHNS CR NR PRESTONSBURG KY	03210500	197.00	1938-40		E			
JOHNS CR NR VAN LEAR, KY	03211500	206	1939-92*	E		C	E	
OPEN FK PAINT CR NR RELIEF, KY	03211945	25.50	1975-81				E	
PAINT CR NR STAFFORDSVILLE, KY	03212000	103.00	1950-75*	E	E	E	E	
KERSHAW BR NR HURLEY, VA	03213577	.60	1981-82		E			
CAMP CR NR ARGO, KY	03213594	1.60	1981-82		E			
KNOX CR AT ARGO, KY	03213600	95.90	1958-72				E	
R FK HURRICANE CR NR STOPOVER, KY	03213630	.82	1980-83		E			
BIG CR NR HATFIELD, KY	03213790	59.10	1975-81				E	
WOLF CR AT PILGRIM, KY	03214400	62.80	1975-81				E	
ROCKCASTLE CR AT CLIFFORD, KY	03214730	121.00	1965-65					E
			1972-81					
BIG SANDY R AUXILIARY AT LOUISA, KY	03214980	3885.00	1938-76		E			
BIG SANDY R AT LOUISA, KY	03215000	3897.00	1939-77		E			C
BLAINE CR ABOVE CAINS CR NR BLAINE, KY	03215362	64.70	1975-81				E	
BLAINE CR NR BLAINE, KY	03215410	119.00	1972-76				E	
BLAINE CR AT YATESVILLE, KY	03215500	217.00	1915-75*	E	E	E	E	
OHIO R AT ASHLAND, KY	03216000	60750.00	1939-75		E			
LITTLE SANDY R AT SANDY HOOK, KY	03216190	35.70	1970-74				E	
LITTLE SANDY R NR SANDY HOOK, KY	03216200	60.40	1954-69				E	
LITTLE SANDY R BELOW GRAYSON DAM NR LEON, KY	03216350	196	1966-92	E		C	E	
LITTLE SANDY R AT LEON, KY	03216400	255.00	1962-80		C			
LITTLE FK LITTLE SANDY R NR WILLARD, KY	03216438	58.10	1975-81				E	
LITTLE FK LITTLE SANDY R NR GRAYSON, KY	03216480	132.00	1965-65					E
			1972-81					
BECKWITH BR TRIBUTARY NR GRAYSON, KY	03216505	.51	1977-86			E		
E FK LITTLE SANDY R NR FALLSBURG, KY	03216540	12.20	1972-91	E	E	E	E	
E FK LITTLE SANDY R NR 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	
SALT LICK CR NR VANCEBURG, KY	03237285	47.50	1954-62					
INDIAN RUN TRIB NR TOLLESBORO, KY	03237895	.23	1975-86					
CABIN CR NR TOLLESBORO, KY	03237900	22.40	1972-91	E	E	E	E	
CABIN CR NR PLUMVILLE, KY	03237985	57.60	1975-78				E	
			1980-81					
OHIO R AT MAYSVILLE, KY	03238000	70130.00	1939-80		E	E		
LAWRENCE CR NR MAYSVILLE, KY	03238030	1.90	1975-86			E		
BRACKEN CR NR AUGUSTA, KY	03238620	28.80	1975-78				E	

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

STATION NAME AND LOCATION	STATION NUMBER	DRAINAGE AREA (MI ²)	PERIOD OF RECORD	COMPLETE FLOW	COM- PLETE STAGE	PEAK FLOW	LOW FLOW	MISC FLOW MEAS
LOCUST CR NR AUGUSTA, KY	03238660	41.70	1980-81 1975-78 1980-81				E	
TWELVEMILE CR NR CALIFORNIA, KY	03238750	44.30	1975-81				E	
DUCK CR AT COLD SPRING, KY	03238795	.49	1975-78			E		
LICKING R AT FREDVILLE, KY	03248170	40.30	1973-76				E	
LICKING R AT ROYALTON, KY	03248250	76.70	1973-76				E	
LICKING R NR SALYERSVILLE, KY	03248500	140	1939-92	E	E	E	E	
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					
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	E E E	E E E			
TRIPLETT CR AT MOREHEAD, KY	03250000	47.5	1938-94 1941-82 1989-92	E 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	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			
LEES CR TRIB AT MAYS LICK, KY	03251015	.45	1975-86		E			
N FK LICKING R NR MILFORD, KY	03251400	286.00	1954-72		E	E		
LICKING R AT MCKINNEYSBURG, KY	03251500	2326.00	1924-26 1939-94	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		
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		
PLEASANT RUN CR AT CRESENT SPRINGS, KY	03260010	.68	1973-86			E		
FOWLERS FORK AT UNION, KY	03277070	1.54	1976-90			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	
LINE FK AT DEFEATED CR, KY	03277370	40.80	1958-76				E	
N FK KENTUCKY R AT CORNETTSVILLE, KY	03277411	322.00	1958-72				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
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	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				E	
			1967					
			1975-77					
			1979-81					
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					
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				E	
			1979-81					
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				E	
			1979-81					
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		
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	

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
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	
CANE RUN NR GEORGETOWN, KY	03288260	45.40	1973-74				E	
N ELKHORN CR AT SWITZER, KY	03288450	265.00	1972-77				E	
CAVE CR NR FORT SPRING, KY	03288500	2.53	1953-72*	E	E	E	E	
S ELKHORN CR AT FORT SPRING, KY	03289000	24.0	1950-92	E		E	E	
WOLF RUN AT CAMBRIDGE DR AT LEXINGTON, KY	03289190	5.30	1976-88			E		
S ELKHORN CR NR WOODLAKE, KY	03289410	156.00	1972-81				E	
FLAT CR NR FRANKFORT, KY	03290000	5.63	1952-71		E	E		
SIX MILE NR DEFOE, KY	03290420	42.60	1973-74				E	
SIX MILE CR NR LOCKPORT, KY	03290490	76.50	1973-74				E	
TOWN CR AT NEW CASTLE, KY	03290580	5.62	1976-86			E		
DRENNON CR AT DRENNON SP, KY	03290675	82.50	1973-74				E	
EAGLE CR AT SADIEVILLE, KY	03291000	42.90	1941-75*	E	E	E	E	
S RAYS FK TRIB NR CORINTH, KY	03291050	0.58	1976-86			E		
EAGLE CR NR NEW COLUMBUS, KY	03291110	124.00	1972-74				E	
EAGLE CR NR HOLBROOK, KY	03291270	258.00	1954				E	
			1957					
			1962					
			1972-81					
TEN MILE CR NR FOLSOM, KY	03291490	68.40	1973-76				E	
LITTLE KY R NR BEDFORD, KY	03291700	73.20	1950-72				E	
CORN CR NR BEDFORD, KY	03292100	27.50	1975-81				E	
JEFF BR NR SLIGO, KY	03292200	.87	1976-86			E		
HARRODS CR NR LAGRANGE, KY	03292460	24.1	1967-94	E	E	E	E	
HARRODS CR NR SKYLIGHT, KY	03292467	60.30	1972-74				E	
S FK HARRODS CR NR CRESTWOOD, KY	03292472	.97	1975-88			E		
SALT R NR HARRODSBURG, KY	03295000	41.40	1953-73*	E	E	E		
SALT R AT FOX CR, KY	03295290	131.00	1972-76					
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				E	
			1972-76					
BULLSKIN CR AT FINCHVILLE, KY	03295705		1974-75		E		E	
BRASHEARS CR NR FINCHVILLE, KY	03295800	147.00	1953-72				E	
BRADSHAW CR NR SHELBYVILLE, KY	03295845	1.36	1976-86			E		
SIMPSON CR NR TAYLORSVILLE, KY	03295985	57.30	1974-76			E		
PLUM CR SUBWATER SHED NO 4 NR SIMPSONVILLE, KY	03296000	1.55	1955-64*		E			
PLUM CR NR WILSONVILLE, KY	03296500	19.10	1954-61*	E	E	E	E	
PLUM CR SWS N 15 NR WILSONVILLE, KY	03296700	1.03	1957-61*		E			
PLUM CR SWS N 17 NR WATERFORD, KY	03296800	.52	1957-61*		E			
LITTLE PLUM CR NR WATERFORD, KY	03297000	5.15	1954-61*	E	E	E		
PLUM CR AT WATERFORD, KY	03297500	31.80	1954-74*	E	E	E		
COX CR NR HIGHGROVE, KY	03297700	95.80	1968-72				E	
FLOYDS FK NR CRESTWOOD, KY	03297845	46.70	1979-91	E	E	E	E	
LONG RUN NR EASTWOOD, KY	03297970	15.20	1974-77*	E	E	E		
FLOYDS FK NR GAP IN KNOB, KY	03298390	259.00	1972-76				E	
ELM LICK CR NR CLERMONT, KY	03298535	.68	1976-86			E		
N ROLLING FK NR GRAVEL SWITCH, KY	03298710	66.20	1974-81				E	
N ROLLING FK AT BRADSFORDVILLE, KY	03298760	95.70	1972-77				E	
BIG S FK AT BRADSFORDVILLE, KY	03298865	59.60	1974-81				E	
ROLLING FK NR LEBANON, KY	03299000	239	1938-92	E		E	E	
POTTINGER CR NR NEW HOPE, KY	03299445	43.50	1974-78				E	
			1980-81					
BEECH FK NR SPRINGFIELD, KY	03300000	85.90	1953-72		E	E		
N PRONG NR WILLISBURG, KY	03300065	1.71	1975-89			E		
CHAPLIN R AT SHARPSVILLE, KY	03300300	140.00	1954-72				E	
CHAPLIN R NR CHAPLIN, KY	03300390	262.00	1972-77				E	
CARTWRIGHT CR AT FREDRICKTOWN, KY	03300498	82.30	1972-77				E	
BEECH FK AT FREDERICKTOWN, KY	03300500	542.00	1929-32		E			
HARDINS CR NR HOLY CROSS, KY	03300780	57.80	1975-78				E	
			1980-81					
TOWN CR TRIB AT BARDSTOWN, KY	03300990	.32	1975-86					
BEECH FK AT BARDSTOWN, KY	03301000	669.00	1939-74	E	E	E		
WILSON CR NR DEATSVILLE, KY	03301580	27.7	1991-96	E	E	E	E	
NORTHERN DITCH AT OKOLONA, KY	03301940	11.10	1974-79		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
OTTER CR TRIB NR VINE GROVE, KY	03302085	.90	1975-86					
OTTER CR AT GRAHAMTON, KY	03302100	88.40	1953-72				E	
DOE RUN NR BRANDENBURG STATION, KY	03302150	52.70	1953-72				E	
SINKING CR AT ROSETTA, KY	03303195	36.00	1970-76				E	
SINKING CR DENTS BR NR IRVINGTON, KY	03303198	66.10	1970-76				E	
SINKING CR NR IRVINGTON, KY	03303200	86.70	1953-72				E	
SINKING CR NR LODIBURG, KY	03303205	125.00	1971-77				E	
SINKING CR AT SAMPLE, KY	03303210	222.00	1953-70				E	
BLACKFORD CR NR MACEO, KY	03303450	111.00	1953-74				E	
OHIO R AT OWENSBORO, KY	03303500	97200.00	1940-54*	E	E	E		
MCGILLS CR NR MCKINNEY, KY	03304500	2.14	1951-71*	E		E		
GREEN R NR MCKINNEY, KY	03305000	22.40	1951-73*	E	E	E		
GREEN R NR MOUNT SALEM, KY	03305500	36.30	1954-61*	E	E	E		
GREEN R AT MIDDLEBURG KY	03305520	66.50	1972-74				E	
CARPENTER CR TRIB NR HUSTONVILLE, KY	03305559	.88	1976-86					
GREEN R NR DUNNVILLE, KY	03305660	221.00	1972-77				E	
S FK NR DUNNVILLE, KY	03305720	71.00	1972-78				E	
IRVIN BRANCH NR SALEM, KY	03305725	1.37	1976-86			E		
GOOSE CR AT DUNNVILLE, KY	03305760	51.60	1972-77				E	
GREEN R AT NEATSVILLE, KY	03305800	399.00	1953-73				E	
GUM LICK TRIB NR CLEMENTSVILLE, KY	03305835	.71	1976-90			E		
CASEY CR AT CASEY CR, KY	03305865	74.70	1972-77				E	
ROBINSON CR AT ACTON, KY	03305945	48.40	1974-81				E	
GREEN R AT CAMPBELLSVILLE, KY	0330600	682	1930-32	E	E			
			1963-94	E	E	E	E	
GREEN R AT GREENSBURG, KY	03306500	736.00	1939-75*	E	E	E		
WHITE OAK CR TR NR MONTPELIER, KY	03306640	.50	1976-86	E		E		
RUSSELL CR NR JOPPA, KY	03306690	62.90	1974-81				E	
RUSSELL CR AT COLUMBIA, KY	03306850		1972-74				E	
RUSSELL CR NR GRESHAM, KY	03307100	265.00	1965-75*	E	E	E	E	
BIG PITMAN CR NR BENGAL, KY	03307215	47.70	1974-78				E	
			1980-81					
LITTLE PITTMAN CR NR CAMPBELLSVILLE, KY	03307260	19.3	1990-95	E	E	E	E	
BIG PITMAN CR NR SUMMERSVILLE, KY	03307295	126.00	1953-72				E	
BIG BRUSH CR NR SUMMERSVILLE, KY	03307400	45.70	1974-78				E	
			1980-81					
S FK LITTLE BARREN R AT EDMONTON, KY	03307500	18.30	1941-72*	E	E	E		
S FK LITTLE BARREN R AT SULPHUR WELL, KY	03307600	79.60	1975-81				E	
PRICES CR NR GRADYVILLE, KY	03307670	2.53	1976-86			E		
E FK LITTLE BARREN R NR SULPHUR WELL, KY	03307730	87.40	1975-81				E	
LITTLE BARREN R NR MONROE, KY	03307800	244.00	1960-76				E	
ECHO R OUTLET AT MAMMOTH CAVE, KY	03308950		1953-74				E	
GREEN R AT MAMMOTH CAVE, KY	03309000	1983.00	1938-50	E	E	E		
WET PRONG BUFFALO CR NR MAMMOTH CAVE, KY	03309100	2.26	1962-74				E	
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	E	
GREEN R AT LOCK 6 AT BROWNSVILLE, KY	03311500	2762	1925-31	E		E	E	
			1936-92					
BEAVERDAM CR NR RHODA, KY	03311600	10.9	1961-72				E	
			1972-94	E	E	E	E	
BEAR CR NR LEITCHFIELD, KY	03312000	30.80	1950-71*	E	E	E		
BEAR CR NR ROUNDHILL, KY	03312100	137.00	1953-72				E	
BARREN R NR PAGEVILLE, KY	03312500	533.00	1939-63	E	E	E		
LITTLE BEAVER CR NR GLASGOW, KY	03312795	.89	1976-86			E		
BARREN R NR FINNEY, KY	03313000	942	1941-50	E	E	E	E	
			1960-94	E	E	E	E	
SOLOMON CR TRIB NR SCOTTSVILLE, KY	03313020	.24	1976-90			E		

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
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	
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	
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	
GREEN R NR PARADISE, KY	03316500	6182.00	1940-81		E			
			1961-81					
MUD R NR HUNTSVILLE, KY	03316275	268	1974-80				E	
			1991-94	E	E	E	E	
ROUGH R NR MADRID, KY	03317000	225.00	1936-59	E	E	E		
N FK ROUGH T NR WESTVIEW, KY	03317500	42.00	1954-73*	E	E	E		
LONG LICK CR TRIB NR AXTEL, KY	03317965	.38	1975-86			E		
ROUGH R NR FALLS OF ROUGH, KY	03318000	454.00	1940-56		E			
ROCK LICK CR NR GLEN DEAN, KY	03318200	20.10	1955-71*	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		
POND R NR WHITE PLAINS, KY	03321000	343.00	1927-40	E	E	E		
CYPRESS CR NR CALHOUN, KY	03321210	142	1979-81	E	E			
			1990-94	E	E	E	E	
CYPRESS CR NR RUMSEY, KY	03321215	149.00	1972-76				E	
E FK DEER CR TRIB NR ONTON, KY	03321275	.95	1976-86			E		
S FK PANTHER CR NR WHITESVILLE, KY	03321350	58.20	1968-83		E			
S FK PANTHER CR NR MASONVILLE, KY	03321370	109.00	1954-72				E	
N FK PANTHER CR NR MASONVILLE, KY	03321410	88.30	1954-72				E	
RHODES CR TRIB NR OWENSBORO, KY	03321465	.29	1975-86			E		
GREEN R AT LOCK AND DAM 1 AT SPOTTSVILLE, KY	03321500	9181.00	1928-31		E			
OHIO R AT MOUNT VERNON, KY	03322250		1977-80		E			
HIGHLAND CR NR WAVERLY, KY	03322350	62.30	1975-77				E	
HIGHLAND CR NR UNIONTOWN, KY	03322400	166.00	1953-77				E	
OHIO R UNIONTOWN DAM	03322420	108000.00	1985-93	E	E	E	E	
WARD CR AT LEWISTOWN, KY	03382975	.91	1975-86			E		
TRADEWATER R NR DALTON, KY	03383500	283.00	1927-40		E	E		
W FK DONALDSON CR NR FREDONIA, KY	03383605	2.52	1975-86			E		
CLEAR CR NR RICHLAND, KY	03383755	17.0	1966-80				E	
			1991-94		E			
ROSE CR AT NEBO, KY	03384000	2.10	1952-70*	E	E	E		
TRADEWATER R	03384180	861	1975-80					E
			1980-81	E	E			
OHIO R AT DAM 51 AT GOLCONDA, IL	03384500	143900.00	1941-52		C			
POOR FK AT HARLAN, KY	03400000	51.70	1940-43		E			
POOR FK AT CUMBERLAND, KY	03400500	82.3	1940-92	E		C	E	
POOR FK AT ROSSPOINT, KY	03400585	142.00	1972-77				E	
WOOD CR NR LONDON, KY	03400600	3.89	1953-71			E		
			1972-87			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	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 FERNDAL, 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			

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
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	
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 WHITELEY CITY, KY	03404390	72.00	1960-61				E	
			1974-81					
CUMBERLAND R AT CUMBERLAND FALLS, KY	03404500	1,977	1907-11	E	E			
			1914-94	E	E	E	E	
LAUREL R NR LILY, KY	03404688	52.30	1974-81				E	
LITTLE LAUREL R NR LILY, KY	03404810	42.40	1975-81				E	
LAUREL R AT MUNICIPAL DAM NR CORBIN, KY	03404820	140	1973-92	E		C	E	
GOZEY HOLLOW NR CORBIN, KY	03404867	.31	1976-85			E		
LAUREL R AT CORBIN, KY	03405000	201.00	1910-73	E	E	E		
LAUREL R NR VOX, KY	03405500	245.00	1929-31		E			
S FK ROCKCASTLE R NR PEOPLES, KY	03405700	95.10	1961-72				E	
MIDDLE FK ROCKCASTLE R NR PARROT, KY	03405818	79.00	1975-81				E	
HORSE LICK CR NR LAMERO, KY	03405842	61.70	1975-81				E	
BIG HURRICANE BR AT CONWAY, KY	03405854	1.91	1976-85			E		
ROUNDSTONE CR AT HOMMEL, KY	03405868	52.90	1975-81				E	
ROUNDSTONE CR AT LIVINGSTON, KY	03405900	144.00	1953-76					
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	352.00	1976-87, 90			E		
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	
KENTUCKY-BARKLEY CANAL NR GRAND RS, KY	03438191		1971-74		E			
CUMBERLAND R AT EUREKA, KY	03438200	17594.00	1939-64		E			
LIVINGSTON CR NR DYCUSBURG, KY	03438470	112.00	1954-74				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
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		
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		
WEST FK CLARKS R NR BREWERS, KY	03610545	68.7	1968-83	E	E	E	E	
			1988-94	E	E	E	E	
CHESTNUT CR NR BENTON, KY	03610503	.82	1975-86			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	E	E			
			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			N	
			1982-84			N	
LEVISA FK BELOW FISHTRAP DAM, KY	03208000	392.00	1965-79		N	N	N
RUSSELL FK AT ELKHORN CITY, KY	03209300	554.00	1961-83		N	N	N
ELKHORN CR NR ELKHORN CITY, KY	03209402		1980-82		N	N	N
MARROWBONE CR AT WOLFPIT, KY	03209420		1980-82		N	N	N
GREASY CR NR SUTTON, KY	03209430		1980-82		N	N	N
DORTON CR NR DORTON, KY	03209438		1980-82		N	N	N
LONG FK NR VIRGIE, KY	03209453		1980-82		N	N	N
ROBINSON CR AT ROBINSON CREEK, KY	03209457		1980-82		N	N	N
SHELBY CR AT SHELBIANA, KY	03209460	112.00	1965-79		N	N	N
MUD CR NR GRETHEL, KY	03209530		1980-82		N	N	N
TOLLAR CR NR HAROLD, KY	03209540		1980-82		N	N	N
MUD CR AT HAROLD, KY	03209545	51.90	1978-80		N	N	N
RIGHT FK BEAVER CR AT TOPMOST, KY	03209585		1980-82		N	N	N
CANEY FK BEAVER CR NR RAVEN, KY	03209590		1980-82		N	N	N
RIGHT FK BEAVER CR AT WAYLAND, KY	03209600	73.90	1978-80		N		N
JONES FK AT BETTY, KY	03209603		1980-82		N	N	N
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. AC- TIVE STA- TUS	PHY. AC- TIVE STA- TUS	SED. AC- TIVE STA- TUS	CHEM- 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. AC- TIVE STA- TUS	PHY. AC- TIVE STA- TUS	SED. AC- TIVE STA- TUS	CHEM- ICAL AC- TIVE STA- TUS
OHIO R AT LOCK AND DAM 39 NR FLORENCE, KY	03277205	82910.00	1974-86	N	N	N	N
YONTS CR NR NEON, KY	03277260		1953-75		N		
N FK KENTUCKY R AT WHITESBURG, KY	03277300	66.40	1980-82		N	N	N
KINGS CR NR ROXANA, KY	03277320		1970-75		N		N
N FK KENTUCKY R AT BLACKKEY, KY	03277340	131.00	1980-82		N	N	N
ROCKHOUSE CR NR FLETCHER, KY	03277361		1971-75		N	N	N
ROCKHOUSE CR AT LETCHER, KY	03277362		1980-82		N		N
LINE FK AT DEFEATED CREEK, KY	03277370	40.80	1971		N	N	N
LINE FK AT ULVAH, KY	03277380		1980-82		N		N
N FK KENTUCKY R AT CORNETTSVILLE, KY	03277411	322.00	1971		N		N
RIGHT FK MACYS CR NR FARLAR, KY	03277415		1970-72		N	N	N
YELLOW CR AT SASSAFRAS, KY	03277455		1980-82		N		N
CARR FK NR HAZARD, KY	03277480		1965-75		N		N
LOTTS CR NR DARFORK, KY	03277515		1971		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	1980-82		N		N
CANEY CR NR CAMP LEWIS, KY	03279430		1970-72		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	1980-82		N		N
N FK KENTUCKY R AT JACKSON, KY	03280000	1101.00	1965-75	N	N	N	N
			1948-75				
			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. AC- TIVE STA- TUS	PHY. AC- TIVE STA- TUS	SED. AC- TIVE STA- TUS	CHEM- ICAL AC- TIVE STA- TUS
			1979-83 1987-90				
BIG SINKING CR NR CRYSTAL, KY	03282075	23.40	1987-89		N	N	N
FURNACE FK NR CRYSTAL, KY	03282100	9.94	1987-89		N	N	N
STATION CAMP CR AT WAGERSVILLE, KY	03282170	115.00	1970-72		N		N
KENTUCKY R NR TRAPP, KY	03282300		1982-83		N	N	N
RED R AT DAYSBORO, KY	03282400		1980-82		N	N	N
RED R NR PINE RIDGE, KY	03283100	142.00	1968-76		N		N
CAT CR NR STANTON, KY	03283370	8.30	1987-89		N	N	N
KENTUCKY R AT LOCK 10 NR WINCHESTER, KY	03284000	3955.00	1987-91	N	N	N	N
BAUGHMAN FK AT GENTRY ROAD NR ATHENS, KY	03284090	7.18	1967-68		N		N
BOONE CR AT GRIMES MILL RD NR LOCUST GROVE, KY	03284100	41.80	1967-68		N		N
KENTUCKY R NR LEXINGTON, KY	03284105		1970				N
SILVER CR NR KINGSTON, KY	03284300	28.60	1978-83		N		
SILVER CR NR RICHMOND, KY	03284350		1973-75		N		N
PAINT LICK CR NR MCCREARY, KY	03284450	97.60	1970-72		N		N
KENTUCKY R AT LOCK 8 NR CAMP NELSON, KY	03284500	4414.00	1948-75		N		N
DIX R NR STANFORD, KY	03284800	160.00	1973-75		N		N
HANGING F CR NR STANFORD, KY	03284935	46.90	1974		N		N
DIX R NR DANVILLE, KY	03285000	318.00	1988		N		N
DIX R AT DIX DAM NR BURGIN, KY	03286200	439.00	1961-79		N		N
KENTUCKY R AT LOCK 4 AT FRANKFORT, KY	03287500	5411.00	1949-73 1987-90	N	N	N	N
BENSON CR AT FRANKFORT, KY	03287530	71.20	1973		N		N
BENSON CR NR FRANKFORT, KY	03287550	107.00	1970-72		N		N
N ELKHORN CR AT BRYAN STATION RD AT MONTROSE, KY	03287600	21.50	1967-68		N		N
N ELKHORN CR UNNAMED TR AT MUIR STA RD NR MUI, KY	03287620	15.80	1967-68		N		N
N ELKHORN CR AT HUFFMAN MILL RD NR MATTOXTOWN, KY	03287700	62.70	1967-68		N		N
GOOSE CR AT MT HOREB RD NR NEWTOWN, KY	03287800	14.20	1967-68		N		N
GOOSE CR AT NEWTOWN RD, NR NEW ZION, KY	03287810		1967		N		N
N ELKHORN CR NR GEORGETOWN, KY	03288000	119.00	1988-89		N		N
CANE RUN AT BERE A ROAD NR DONERAIL, KY	03288200	19.90	1967-68		N		N
CANE RUN NR GEORGETOWN, KY	03288260	45.40	1973		N		N
CAVE CR NR FORT SPRING, KY	03288500	2.53	1968		N		N
STEELES RUN AT OLD FRANKFORT RD AT FAYWOOD, KY	03289100	6.67	1967-68		N		N
TOWN BRANCH AT YARNALLTON RD AT YARNALLTON, KY	03289200		1967-68		N		N
ELKHORN CR NR FRANKFORT, KY	03289500	473.00	1987-91	N	N	N	N
SIX MILE NR DEFOE, KY	03290420	42.60	1973		N		N
SIX MILE CR NR LOCKPORT, KY	03290490	76.50	1973-74		N		N
KENTUCKY R AT LOCK #2 AT LOCKPORT, KY	03290500	6180.00	1974-95	N	N	N	N
DRENNON CR AT DRENNON SP, KY	03290675	82.50	1973-74		N		N
EAGLE CR NR HOLBROOK, KY	03291270	258.00	1973-75		N		N
TEN MILE CR NR FOLSOM, KY	03291490	68.40	1973		N		N
EAGLE CR AT GLENCOE, KY	03291500	437.00	1948-79		N	N	N
LITTLE KY R NR BEDFORD, KY	03291700	73.20	1970-72		N		N
HARRODS CR NR SKYLIGHT, KY	03292467	60.30	1974-75		N		N
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		
MIDDLE FK BEARGRASS CR AT LOUISVILLE, KY	03293000	18.9	1988-92		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		
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
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

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

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			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 NR DEATSVILLE, KY	03301580	27.7	1991-92		N		
			1992-96				N
ROLLING FORK NR LEBANON JUNCTION, KY	03301630	1375.00	1975-94	N	N	N	N
POND CR NR LOUISVILLE, KY	03302000	64.0	1988-92		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
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
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		
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

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BAYS FK AT CLAYPOOL, KY	03313570	80.90	1960-68		N		N
UNNAMED NON-CONTRIB STREAM AT GREENHILL, KY	03313590		1968		N		N
TRAMMEL CR NR SCOTTSVILLE, KY	03313900	93.40	1970-72		N		N
DRAKES CR NR ALVATON, KY	03314000	478.00	1968-72		N	N	N
UNNAMED NON-CONTRIB STREAM AT THREE SPRINGS, KY	03314595		1968		N		N
JENNINGS CR NR LOST RIVER, KY	03314610		1968		N		N
JENNINGS CR AT US 231 AT BOWLING GREEN, KY	03314650		1968		N		N
JENNINGS CR BELOW LOST R OUTLET AT BOWLING GREEN, KY	03314680		1968		N		N
JENNINGS CR AT BARREN R RD NR BOWLING GREEN, KY	03314700		1968		N		N
GASPER R AT HADLEY, KY	03315300	190.00	1960-72		N		N
WELCH CR NR ABERDEEN, KY	03315510		1980-82		N	N	N
INDIAN CAMP CR NR MORGANTOWN, KY	03315590		1980-82		N	N	N
E PRONG INDIAN CAMP CR NR MORGANTOWN, KY	03315600		1980-82		N	N	N
MUDDY CR AT DUNBAR, KY	03315810	94.30	1960-82		N	N	N
PANTHER CR NR ROCHESTER, KY	03315830		1980-82		N	N	N
MUD R NR LEWISBURG, KY	03316000	90.50	1960-72		N		N
WOLFLICK CR NR LEWISBURG, KY	03316200	116.00	1970-72		N		N
ROCKY CR NR PENROD, KY	03316300		1980-82		N	N	N
GREEN R AT PARADISE, KY	03316500	6183.00	1978-82		N		
POND CR NR MARTWICK, KY	03316640	125.00	1972-82		N	N	N
LEWIS CR AT ROCKPORT, KY	03316660		1980-82		N	N	N
MEETING CR NR BIG CLIFTY, KY	03316885		1980-82		N	N	N
N FK ROUGH R NR WESTVIEW, KY	03317500	42.00	1970-72		N		N
ROUGH R AT ROUGH R DAM NR FALLS OF ROUGH, KY	03318010	454.00	1962-83		N		
ROCK LICK CR NR FALLS OF ROUGH, KY	03318300		1980-82		N	N	N
SHORT CR NR FALLS OF ROUGH, KY	03318600		1980-82		N	N	N
S FK CANEY CR AT CANEYVILLE, KY	03318700		1980-82		N	N	N
ADAMS FK NR FORDSVILLE, KY	03319510		1980-82		N	N	N
W FK ADAMS FK NR FORDSVILLE, KY	03319530		1980-82		N	N	N
HALLS CR NR DUNDEE, KY	03319570		1980-82		N	N	N
ROUGH R AT HARTFORD, KY	03319600		1966-72		N		N
MUDDY CR NR BEAVER DAM, KY	03319615		1980-82		N	N	N
THREELICK CR NR BEAVER DAM, KY	03319620		1980-82		N	N	N
BARNETT CR NR HARTFORD, KY	03319700		1980-82		N	N	N
N FK BARNETT CR NR HARTFORD, KY	03319750		1980-82		N	N	N
GREEN R AT LIVERMORE, KY	03319885	7512.00	1948-75		N		
BUCK CR NR LIVERMORE, KY	03319925		1980-82		N	N	N
LONG FALLS CR NR RUMSEY, KY	03320075		1980-82		N	N	N
LONG CR NR KIRKMANSVILLE, KY	03320400		1980-82		N	N	N
W FK POND R NR APEX, KY	03320700		1980-82		N	N	N
MCFARLAN CR NR WHITE PLAINS, KY	03320740		1980-82		N	N	N
DRAKES CR NR WHITE PLAINS, KY	03321035	52.50	1979-82		N	N	N
FLAT CR NR MADISONVILLE, KY	03321050		1980-82		N	N	N
POND R NR SACRAMENTO, KY	03321100	523.00	1959-73		N		N
POND R NR VANDETTA, KY	03321120		1980-82		N	N	N
OTTER CR NR HANSON, KY	03321150		1980-82		N	N	N
CYPRESS CR NR MIDLAND, KY	03321160		1980-82		N	N	N
CYPRESS CR NR CENTRAL CITY, KY	03321170		1980-82		N	N	N
LITTLE CYPRESS CR AT CENTRAL CITY, KY	03321180		1980-82		N	N	N
CYPRESS CR NR RUMSEY, KY	03321215	149.00	1973-75		N		N
GREEN R NR BEECH GROVE, KY	03321230	8545.00	1975-86	N	N	N	N
DEER CR NR SEBREE, KY	03321290	122.00	1974-75		N		N
N FK PANTHER CR NR MASONVILLE, KY	03321400		1980-82		N	N	N
N FK PANTHER CR NR MASONVILLE, KY	03321410	88.30	1970-71		N		N
PANTHER CR NR CURDSVILLE, KY	03321450	344.00	1973-80		N		N
LICK CR NR BLUFF CITY, KY	03321455		1980-82		N	N	N
KNOBLICK CR NR CURDSVILLE, KY	03321455		1980-82		N	N	N
GREEN R AT LOCK AND DAM 1 AT SPOTTSVILLE, KY	03321500	9181.00	1955-62		N		N
CANOE CR NR HENDERSON, KY	03322180	56.00	1979-82		N	N	N
CASEY CR NR WAVERLY, KY	03322370		1980-82		N	N	N
HIGHLAND CR NR UNIONTOWN, KY	03322400	166.00	1970-72		N		N
OHIO R NR UNIONTOWN DAM, KY	03322420		1975		N		N
EAGLE CR NR MORGANFIELD, KY	03382570		1980-82		N	N	N

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

STATION NAME AND NUMBER	STATION NUMBER	DRAINAGE AREA (MI ²)	PERIOD OF RECORD	BIO. AC- TIVE STA- TUS	PHY. AC- TIVE STA- TUS	SED. AC- TIVE STA- TUS	CHEM- ICAL AC- TIVE STA- TUS
TRADEWATER R AT POOLS MILL BR NR DAWSON SPRINGS, KY	03382600	60.40	1966-82		N	N	N
CASTLEBERRY CR NR DAWSON SPRINGS, KY	03382650		1980-82		N	N	N
TRADEWATER R AT COLLINS BRDG, NR DAWSON SPRINGS, KY	03382680		1965-67		N		N
TRADEWATER R AT MURPHY FK NR DAWSON SPRINGS, KY	03382685	94.10	1966-75		N		N
BUFFALO CR AT ST HWY 1338 NR DAWSON SPRINGS, KY	03382700		1965-69		N		
BUFFALO CR NR DAWSON SPRINGS, KY	03382720	12.70	1965-67		N		N
COPPERAS CR AT HWY BRIDGE NR ILSLEY, KY	03382835		1966-67		N		N
CANY CR AT MOUTH NR DAWSON SPRINGS, KY	03382855		1965-67		N		N
TRADEWATER R AT ST HWY 109 AT DAWSON SPRINGS, KY	03382870	143.00	1966-67		N		N
PINY CR BL LK BESHEAR D NR DAWSON SPRINGS, KY	03382890		1966-67		N		N
TRADEWATER R AT OLNEY, KY	03383000	255.00	1949-83	N	N	N	N
TRADEWATER R NR DALTON, KY	03383500	283.00	1965-66		N		N
DONALDSON CR NR FRYER, KY	03383650		1980-82		N	N	N
DONALDSON CR AT BR ON HWY 293 NR DALTON, KY	03383700		1966		N		N
TRADEWATER R AT ST HWY 293 NR DALTON, KY	03383710		1965-66		N		N
CLEAR CR AT HWY 70 BR NR RICHLAND, KY	03383755	17.00	1966-82		N	N	N
RICHLAND CR ABOVE TRIBUTARY NO 1 NR ILSLEY, KY	03383770		1966-67		N		N
UNNAMED TRIB NO 1 TO RICHLAND CR NR ILSLEY, KY	03383775		1966-67		N		N
UNNAMED TRIB NO 2 TO RICHLAND CR NR ILSLEY, KY	03383780		1966-67		N		N
RICHLAND CR AT RICHLAND, KY	03383800		1966		N		
UNNAMED TRIB TO CLEAR CR NR BEULAH, KY	03383901		1966		N		N
LICK CR NR RABBIT RIDGE, KY	03384035		1980-82		N	N	N
CLEAR CR AT BRIDGE ON ST HWY 293 NR PROVIDENCE, KY	03384050	197.00	1966-67		N		N
TRADEWATER R AT DAM NR PROVIDENCE, KY	03384060		1965-66		N		N
TRADEWATER R AT BRIDGE BELOW DAM NR PROVIDENCE, KY	03384072		1966-67		N		N
TRADEWATER R NR PROVIDENCE, KY	03384100	605.00	1965-72		N		N
TRADEWATER R NR BLACKFORD, KY	03384103		1980		N	N	N
PINEY CR NR SHADY GROVE, KY	03384106		1980-82		N	N	N
UNNAMED TRIB TO SLOVER CR NR PROVIDENCE, KY	03384133		1968				N
SLOVER CR NR CLAY, KY	03384136		1969		N		N
UNNAMED TRIB TO SLOVER CR NR CLAY, KY	03384138		1969		N		N
UNNAMED TRIB TO SLOVER CR NR CLAY, KY	03384140		1969-79		N		N
FREDRICKS DITCH NR CLAY, KY	03384145		1969		N		N
CRABORCHARD CR NR CLAY, KY	03384150		1965-82		N	N	N
CRABORCHARD CR NR CLAY, KY	03384151		1969		N		N
CRABORCHARD CR AT CLAY, KY	03384152		1966		N		N
CRABORCHARD CR AT CLAY, KY	03384154	86.60	1969-72		N	N	N
CANEY FK NR CLAY, KY	03384158		1980-82		N	N	N
TRADEWATER R NR SULLIVAN, KY	03384180	861.19	1975-77		N	N	N
SMITH DITCH NR STURGIS, KY	03384200		1980-82		N	N	N
LOONEY CR NR CLUTTS, KY	03400480		1980-82		N	N	N
CLOVER FK NR SHIELDS, KY	03400650		1980-82		N	N	N
CLOVER FK AT EVARTS, KY	03400700	82.40	1960-72		N		N
MARTINS FK ABOVE SMITH, KY	03400785	23.80	1986-88			N	
CRANE CR NR SMITH, KY	03400796	1.63	1978-80		N		
BROWNICE CR NR OAKS, KY	03401290		1980-82		N	N	N
CLEAR CR NR PINEVILLE, KY	03402400		1980-82		N	N	N
LITTLE CLEAR CR NR PINEVILLE, KY	03402450		1980-82		N	N	N
STRAIGHT CR NR KETTLE ISLAND, KY	03402800		1980-82		N	N	N
LEFT FK STRAIGHT CR NR CARY, KY	03402830		1980-82		N	N	N
MIDDLE FK STINKING CR NR WALKER, KY	03403100		1980-82		N	N	N
ROAD FK CR NR BARNYARD, KY	03403150		1980-82		N	N	N
LITTLE INDIAN CR NR PERMON, KY	03403550		1980-82		N	N	N
FOURMILE BRANCH NR BRYANTS STORE, KY	03403590		1980-82		N	N	N
WATTS CR NR WOFFORD, KY	03404100		1980-82		N	N	N
JELLICO CR NR WILLIAMSBURG, KY	03404200	103.00	1979-82		N	N	N
MARSH CR NR DUCKRUN, KY	03404350		1980-82		N	N	N
TRIBUTARY TO LAUREL R NR LESBAS, KY	03404650		1980-82		N	N	N
TRIBUTARY TO LAUREL R NR PINE GROVE, KY	03404800		1980-82		N	N	N
LAUREL R AT MUNICIPAL DAM NR CORBIN, KY	03404820	140.00	1977-83		N		
LYNN CAMP CR AT CORBIN, KY	03404900	53.80	1973-83		N		
LAUREL R AT CORBIN, KY	03405000	201.00	1949-73		N		N
CRAIG CR NR HIGHTOP, KY	03405550		1980-82		N	N	N

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

STATION NAME AND NUMBER	STATION NUMBER	DRAINAGE AREA (MI ²)	PERIOD OF RECORD	BIO- AC- TIVE STA- TUS	PHY- AC- TIVE STA- TUS	SED- AC- TIVE STA- TUS	CHEM- ICAL AC- TIVE STA- TUS
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		
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
373925085540301	Hardin	OW-6	1989-95
374020085530601	Hardin	OW-5	1989-90, 1994-95
375958085575401	Hardin	Hart #1	1980-92
380308085533501	Jefferson	79-4	1979-92
380434085525101	Jefferson	E-1-d	1980-92
380616085532801	Jefferson	Lou. Ext. Water District	1962-92
380637085521301	Jefferson	D-1-d	1980-92
380718085515802	Jefferson	C-3-s	1984-92
380718085524202	Jefferson	C-4-m	1983-92
380843085522801	Jefferson	B-2-d	1980-92
380846085520101	Jefferson	B-1-d	1980-92
380852085515901	Jefferson	Waller	1943-92
381011085491601*	Jefferson	86-1	1986-93
381102085512102	Jefferson	Kaufman	1944-92
381108085511301	Jefferson	Baugh	1945-92
381155085483401	Jefferson	Mathis	1944-92
381157085510201	Jefferson	RR-39	1945-92
381212085473801	Jefferson	C-6	1935-92
381221085475001	Jefferson	C-5	1935-92
381224085474001	Jefferson	Early Times	1947-92
381229085510201	Jefferson	Triangle Refinery	1978-92
381250085484901	Jefferson	C-2	1935-92
381256085471501	Jefferson	National Distillery TW-2	1941-92
381259085471502	Jefferson	National Distillery TW-1	1941-92
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
381316085502101	Jefferson	Airco TW-12	1956-92
381324085460401*	Jefferson	American Standard	1978-93
381338085481601	Jefferson	CP-8	1977-92
381355085465901	Jefferson	Louisville Cooperage	1948-92
381406085463001	Jefferson	United Catalyst	1978-92
381424085454602	Jefferson	CP12A	1980-92
381430085452602	Jefferson	Conna	1943-92
381500085445501	Jefferson	89-2	1989-92
381500085454701	Jefferson	78-5	1978-92
381503085452601	Jefferson	Stewarts	1981-92
381505085475701	Jefferson	CP-5	1977-92
381514085453502	Jefferson	CP11A	1984-92
381517085455501	Jefferson	86-6	1986-92
381524085452301	Jefferson	86-8	1986-92
381528085454201	Jefferson	86-9	1986-92
381536085492801	Jefferson	CP-2	1977-92
381538085434401*	Jefferson	78-7	1978-92
381613085421901	Jefferson	WC-14	1946-92
381628085473101	Jefferson	CP-13	1978-92
381701085414002	Jefferson	WC-8A	1979-92
381722085405801	Jefferson	WC-11	1946-92
381742085402001	Jefferson	WC-13	1946-92
381827085392401	Jefferson	WC-26	1946-92
371033082374301*	Letcher	C&ORR	1962-92

* destroyed

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
<i>Length</i>		
inch (in.)	2.54×10^1	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^0	kilometer
<i>Area</i>		
acre	4.047×10^3	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi ²)	2.590×10^0	square kilometer
<i>Volume</i>		
gallon (gal)	3.785×10^0	liter
	3.785×10^0	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^3	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft ³)	2.832×10^1	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft ³ /s) d]	2.447×10^3	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^3	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
<i>Flow</i>		
cubic foot per second (ft ³ /s)	2.832×10^1	liter per second
	2.832×10^1	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^1	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
<i>Mass</i>		
ton (short)	9.072×10^{-1}	megagram or metric ton

Sea level: In this report “sea level” refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

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