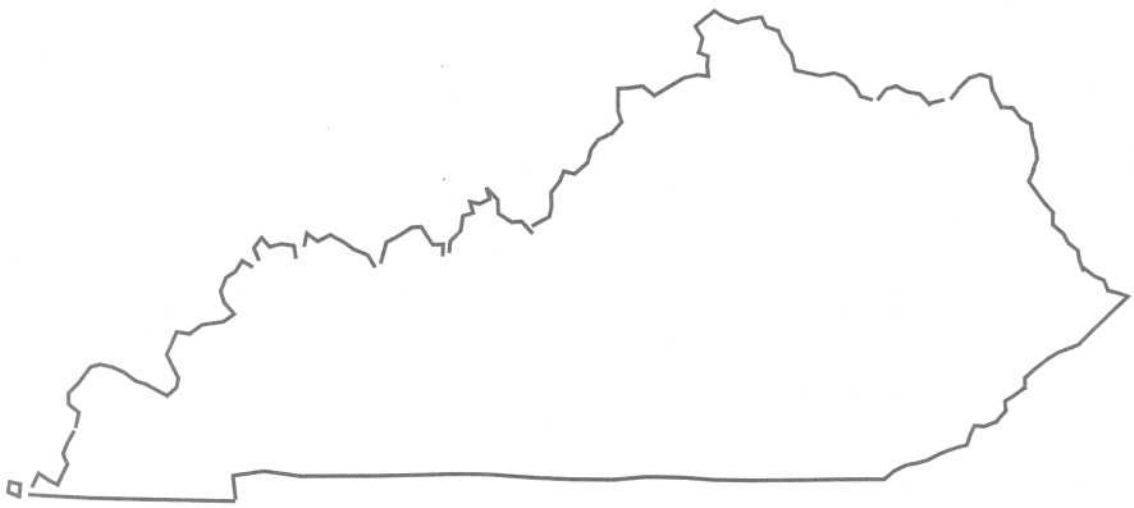
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Water Resources Data Kentucky Water Year 1995



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT KY-95-1
Prepared in cooperation with the Commonwealth of Kentucky and with other agencies

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CALENDAR FOR WATER YEAR 1995

1994

OCTOBER

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1995

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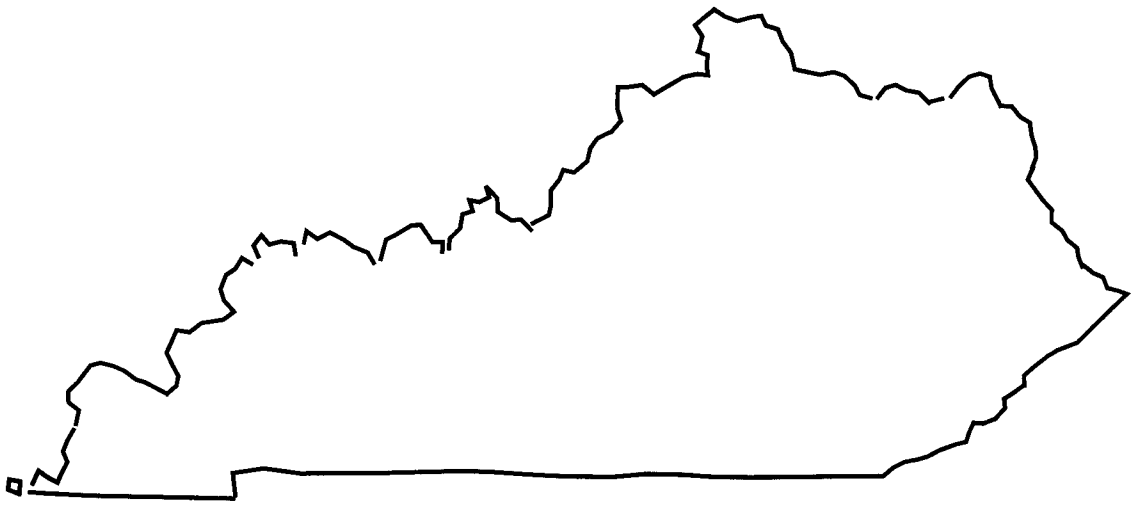
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Water Resources Data Kentucky Water Year 1995

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



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT KY-95-1
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

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2301 Bradley Avenue
Louisville, Kentucky 40217-1807

1995

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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J.D. Filbeck	G.K. McCombs	D.D. Zettwoch

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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Water resources data for the 1995 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 83 stream-gaging stations. It also includes water-quality data for 33 stations sampled at regular intervals. Also published are 1 daily temperature and 70 miscellaneous temperature and specific conductance determinations for the gaging stations. Suspended-sediment data for 3 stations are also published. Ground-water levels are published for 13 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.

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

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

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

	STATION NUMBER	Page
OHIO RIVER BASIN		
Ohio River:		
BIG SANDY RIVER BASIN		
Levisa Fork (head of Big Sandy River):		
Grapevine Creek near Phyllis (d)	03207965	41
Levisa Fork at Pikeville (d)	03209500	42
Johns Creek near Meta (d)	03210000	43
Levisa Fork at Paintsville (d)	03212500	44
LITTLE SANDY RIVER BASIN		
Little Sandy River at Grayson (d)	03216500	45
Ohio River at Greenup Dam (d)	03216600	46
TYGARTS CREEK BASIN		
Tygarts Creek near Greenup (d)	03217000	47
KINNICONICK CREEK BASIN		
Kinniconick Creek at Tannery (d)	03237250	48
LICKING RIVER BASIN		
Licking River near Salyersville (d)	03248500	49
North Fork Licking River near Mt. Olivet (d)	03251200	50
South Fork Licking River:		
Hinkston Creek near Carlisle (d)	03252300	51
Licking River at Catawba (d)	03253500	52
Ohio River at Markland Dam (d)	03277200	53
KENTUCKY RIVER BASIN		
North Fork Kentucky River (head of Kentucky River):		
Leatherwood Creek at Daisy (d)	03277400	54
North Fork Kentucky River at Jackson (d)	03280000	55
Cutshin Creek at Wooton (d)	03280700	56
Middle Fork Kentucky River at Tallega (d)	03281000	57
Kentucky River:		
Red Bird River (head of South Fork Kentucky River) near Big Creek (d)	03281040	58
Goose Creek at Manchester (d)	03281100	59
South Fork Kentucky River at Booneville (d)	03281500	60
Kentucky River at lock 14, at Heidelberg (d)	03282000	61
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Red River at Clay City (d)	03283500	64
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Dix River near Danville (d)	03285000	66
Clarks Run near Danvile (d)	03285200	67
Kentucky River at lock 6, near Salvisa (d)	03287000	68
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North Elkhorn Creek near Georgetown (d)	03288000	70
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Goose Creek at Old Westport Road near St. Matthews (c)	03292474	80
Goose Creek at U.S. Hwy 42 near Glenview Acres (c)	03292475	81
Little Goose Creek near Harrods Creek (c)	03292480	82

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

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

	STATION NUMBER	Page
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Ohio River--Continued		
BEARGRASS CREEK BASIN		
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South Fork Beargrass Creek at Winter Avenue at Louisville (c)	03292550	85
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Mill Creek Cutoff near Louisville (c)	03294550	91
Mill Creek at Orell Road near Louisville (c)	03294570	92
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Salt River at Glensboro (d)	03295400	93
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Floyds Fork:		
Floyds Fork near Pewee Valley (d)	03297900	95
Long Run near Fisherville (c)	03297980	96
Floyds Fork at Fisherville (d,c)	03298000	97
Pope Lick at Pope Lick Road near Middletown (c)	03298100	99
Chenoweth Run at Gelhaus Lane near Fern Creek (c)	03298150	100
Floyds Fork near Mount Washington (c)	03298200	101
Cedar Creek at Fairmount Road near Mt. Washington, Ky. (c)	03298242	102
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Beech Fork at Maud (d)	03300400	107
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Pond Creek:		
Southern Ditch:		
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Northern Ditch:		
Fern Creek at Old Bardstown Road at Louisville (c)	03301900	118
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Otter Creek at Otter Creek Park near Rock Haven, Ky. (c)	03302110	124
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Green River:		
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SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME--Continued

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

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Ohio River--Continued		
GREEN RIVER BASIN--Continued		
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Bayou Creek:		
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WATER RESOURCES DATA - KENTUCKY, 1995

INTRODUCTION

Water resources data for the 1995 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 83 stream-gaging stations. It also includes water-quality data for 33 stations sampled at regular intervals. Also published are 1 daily temperature and 70 miscellaneous temperature and specific conductance determinations for the gaging stations. Suspended-sediment data for 3 stations are also published. Ground-water levels are published for 13 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 1995, 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 95-1." 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) 635-8000.

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;
City of Campbellsville, Robert Miller, Mayor;
City of Elizabethtown, Patricia Durbin, Mayor;
City of Glasgow, Charles B. Honeycutt, Mayor;
City of Louisville, Jerry E. Abramson, Mayor;
Jefferson County, David Armstrong, County Judge/Executive; 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 1995 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 1995 was below or equal to the long-term average across the State except for one station in the eastern and two stations in the central part of the State that exceeded the long-term average.

Based on flow data collected at 21 surface-water gaging stations across Kentucky, annual peak flows during the 1995 water year had about a 2-year recurrence interval (table 1). Localized rains caused peak flow at one site in the central part of the State to exceed the 10-year recurrence interval. Base flows in the 1995 water year were less than the 2-year recurrence interval; however, two sites in the eastern part of the State, three in the central part of the State, and two in the western part of the State had less than 10-year recurrence interval, and one site in the eastern part of the State and one site in the central part of the State had greater than 20-year recurrence interval.

Quality of Water

Since 1973 the National Stream Quality Accounting Network (NASQAN) program has had stations operating in Kentucky. Three of the ten NASQAN stations (not all stations were active at one time) were operated during Water Year 1995. Two of these stations have been discontinued -Kentucky River at Lock 2 at Lockport (03290500) and South Fork Cumberland River near Stearns (03410500).

One of the objectives of the NASQAN program is to provide a summary of the data collected. A summary of selected metals, trace elements, and field parameters for the two discontinued stations is presented in tables _ and _. The presence and concentration of metals and trace elements is associated with the geology, land use and cover, and human activity in the basin upstream of the station where samples are collected. Natural processes including weathering caused by wind, rain, and temperature changes also aid in the transport of these elements. Below is a brief discussion of the sources and potential human-health affects from drinking water (Environmental Protection Agency, 1995) of a few of the selected constituents. Where available the contaminant level has also been included. A Maximum Contaminant Level (MCL), expressed in milligrams per liter (mg/L), is the highest concentration permitted in water delivered by a public water system. Although waters from rivers are not used for public consumption without treatment the MCL does indicate when treatment is necessary. A Secondary Maximum Contaminant Level (SMCL) is a reasonable goal, intended as a guideline, for drinking water quality.

Aluminum -- Third most abundant element in the earth's surface. Occurs in many silicate ingneous rocks and is commonly found in aluminum enriched minerals in clays. It is associated with suspended sediments and higher concentrations are generally found in water samples taken during periods of high discharge. (SMCL 0.05 to 0.2 mg/L)

Arsenic -- Naturally present in some waters, it is a by-product of the smelting of copper, lead, and zinc ores. It is also a common component of many pesticides. Other sources include coal burning, mining, and industrial waste. (Skin, nervous-system toxicity - MCL 0.05 mg/L)

Barium -- Found naturally in limestones and sandstones, and soils in the eastern United States. Is associated with deposits of coal, petroleum, and natural gas. Common in waters of parts of Kentucky, Illinois, and Georgia. (Circulatory system effects - MCL 2 mg/L)

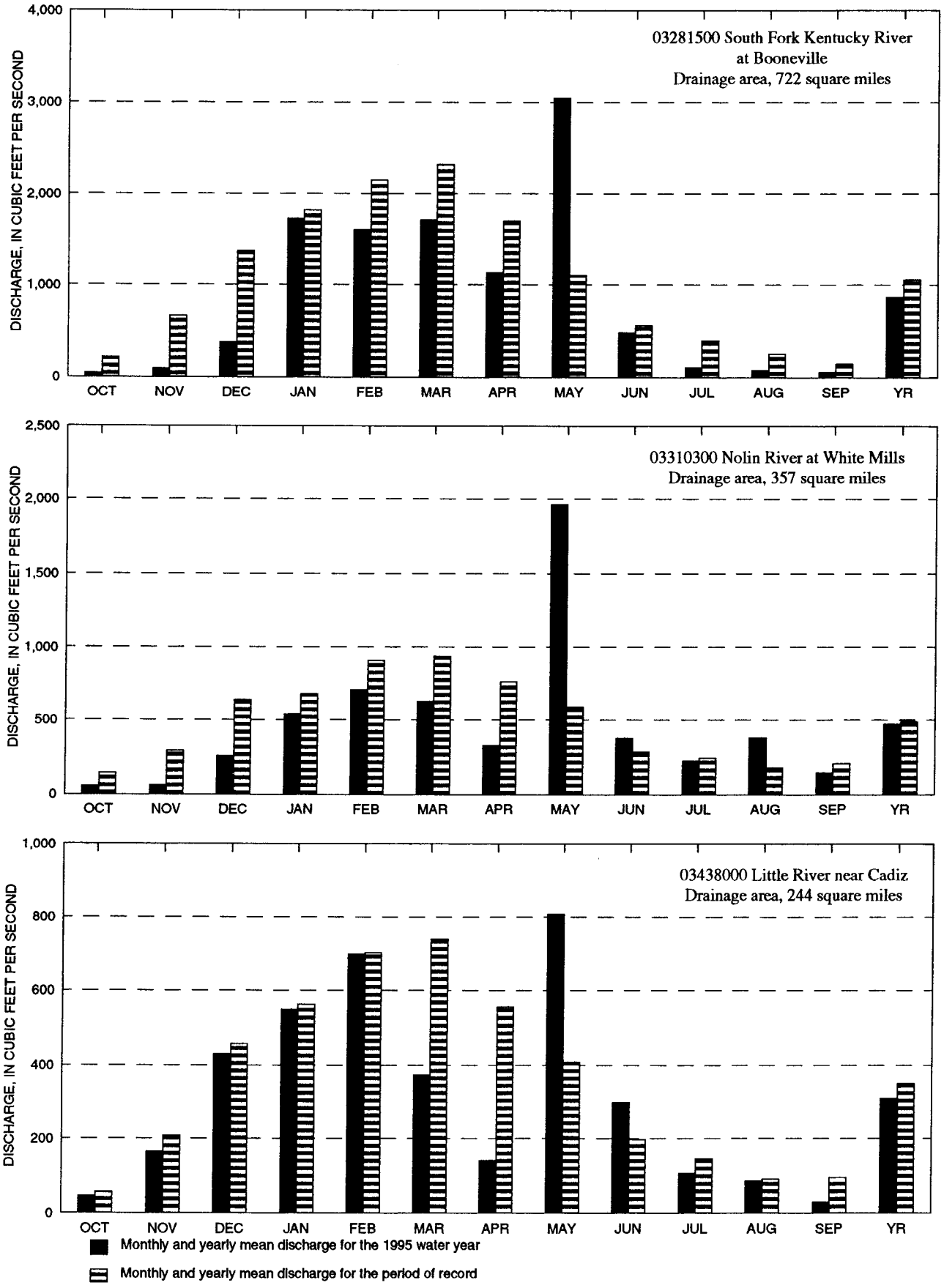


Figure 1.--Mean discharge during 1995 water year and period of record for three representative gaging stations

Table 1. Mean, maximum, and minimum streamflow for water year 1995 and recurrence intervals at selected stations

Station number	Length of record (years)	Mean		Maximum		Minimum	
		Daily streamflow (ft^3/s)	Percent of average	Peak streamflow (ft^3/s)	Recurrence interval (years)	Daily streamflow (ft^3/s)	Recurrence interval (years)
				TYGARTS CREEK BASIN			
03217000	55	316	103	6,630	<2	1.9	<2
				LICKING RIVER BASIN			
03248500	55	165	95	3,160	<2	2.6	<2
				KENTUCKY RIVER BASIN			
03280700	38	60.3	64	6,550	>2	1.1	<2
03281040	23	216	76	10,100	<2	.35	>20
03281100	31	210	78	6,930	<2	3.1	<2
03281500	62	870	82	17,500	<2	4.3	<10
03282500	40	79.5	90	2,210	<2	.27	<10
03283500	58	493	100	10,200	>2	12	<2
03285000	53	442	94	25,400	>10	1.0	<2
				BEARGRASS CREEK BASIN			
03293000	51	19.8	79	1,220	<2	.48	<10
				SALT RIVER BASIN			
03298000	51	171	96	7,050	<2	.09	<2
03300400	23	578	92	17,000	<2	.23	>20
03301500	57	1,858	103	26,200	<2	11	<2
				GREEN RIVER BASIN			
03307000	56	317	108	18,100	>5	2.8	<10
03310300	36	472	97	9,050	>2	44	<10
03320500	55	237	87	5,750	<2	0	<2
				CUMBERLAND RIVER BASIN			
03404900	22	80.0	91	2,000	<2	.74	<10
03406500	59	941	100	26,500	>2	18	<2
03410500	53	1,232	69	30,700	<2	31	<10
03438000	55	309	88	6,820	>2	20	=2
				MASSAC CREEK BASIN			
03611260	24	13.3	76	1,130	<2	.56	<2
				BAYOU DE CHIEN BASIN			
07024000	50	72.9	71	1,500	<2	14	<2

Table 2. Summary statistics for selected constituents at KentuckyRiver at Lock2 at Lockport, July 1978 to June 1995.

[N, number of samples; MAX, maximum; MIN, minimum; ft^3/s, cubic feet per second; µS/cm, microseimens per centimeter; deg C; degrees Celsius; mg/L, milligrams per liter; --, value could not be estimated; *, value is estimated using a log-probability regression; unless otherwise specified, constituents are in micrograms per liter]

Constituent	Descriptive statics				Percent of samples in which values were less than or equal to those shown				
	N	MAX	MIN	MEAN	95%	75%	50%	25%	5%
Discharge, ft^3/s	152	114000	102	12084	54780	12950	4675	1492	447
Specific conductance, µS/cm	148	630	145	314	449	359	310	260	205
pH, standard units	151	8.6	6.7	7.7	8.4	8.0	7.8	7.4	7.1
Temperature, water, deg C	151	30	0.0	15	28	23	14	8.0	2.8
Oxygen, mg/L	119	14	5.4	9.4	13	11	9.1	7.9	6.3
Aluminum	91	900	--	*37	*80	*40	*20	*10	*3.9
Arsenic	91	5.0	--	*0.93	*2.4	*1.0	*1.0	*0.50	*0.28
Barium	110	100	0.0	40	86	49	34	25	18
Beryllium	77	2.0	--	*0.15	*1.0	*0.14	*0.05	*0.02	*0.00
Cadmium	92	7.9	--	*0.73	*3.0	*1.0	*0.33	*0.1	*0.04
Chromium	93	20	--	*0.83	*4.4	*0.42	*0.10	*0.03	*0.00
Cobalt	111	6.0	--	*0.90	*2.6	*1.1	*0.62	*0.35	*0.16
Copper	92	20	1.0	3.5	12	3.7	2.0	1.0	1.0
Iron	111	1500	--	*44	*110	*40	*15	*6.0	*1.6
Lead	91	21	--	*1.3	*5.4	*1.0	*0.5	*0.2	*0.05
Lithium	94	14	--	*4.8	*10	*6.0	*4.0	*2.9	*1.7
Nickel	102	20	--	*1.8	*4.9	*2.0	*1.0	*0.60	*0.25
Selenium	91	1.0	--	--	--	--	--	--	--
Silver	109	6.0	--	*0.27	*1.5	*0.2	*0.05	*0.02	*0.00
Zinc	94	55	--	*8.5	*31	*11	*6.0	*3.0	*1.5

Table 3. Summary statistics for selected constituents at South Fork Cumberland River near Stearns, December 1985 to February 1995.

[N, number of samples; MAX, maximum; MIN, minimum; ft^3/s, cubic feet per second; µS/cm, microseimens per centimeter; deg C, degrees Celsius; mg/L, milligrams per liter; --, value could not be estimated; *, value is estimated using a log-probability regression; <, less than; unless otherwise specified, constituents are in micrograms per liter]

	Descriptive statics				Percent of samples in which values were less than or equal to those shown				
Constituent	N	MAX	MIN	MEAN	95%	75%	50%	25%	5%
Discharge, ft^3/s	61	21800	41	1721	4747	1730	742	290	63
Specific conductance, µS/cm	61	260	73	138	238	152	125	105	87
pH, standard units	47	8.0	5.2	7.1	7.8	7.4	7.2	7.0	5.9
Temperature, water, deg C	61	31	2.0	15	29	22	14	8.0	3.0
Oxygen, mg/L	49	14	6.9	9.8	13	11	9.8	8.0	7.0
Aluminum	33	100	--	*39	*93	*65	*30	*15	*6.2
Arsenic	19	< 1.0	--	--	--	--	--	--	--
Barium	33	38	17.	26	37	29	24	21	19
Beryllium	19	< 3.0	--	--	--	--	--	--	--
Cadmium	19	3.0	--	*0.80	*3.0	*1.0	*0.50	*0.27	*0.10
Chromium	19	3.0	--	--	--	--	--	--	--
Cobalt	33	< 3.0	--	--	--	--	--	--	--
Copper	19	10	--	*3.2	*10	*5.0	*2.0	*2.0	*0.54
Iron	33	190	16.	76	148	98	73	54	23
Lead	19	5.0	--	*1.2	*5.0	*1.9	*1.0	*0.50	*0.27
Lithium	33	7.0	--	--	--	--	--	--	--
Nickel	33	6.0	--	*2.3	*6.0	*3	*2.0	*1.0	*0.63
Selenium	33	< 1.0	--	--	--	--	--	--	--
Silver	33	1.0	--	--	--	--	--	--	--
Zinc	19	31	--	*15	*31	*19	*14	*8.0	*3.7

Cadmium -- Rare in waters unaffected by human activity although geologic deposits can serve as sources especially when in contact with soft, acidic waters. Introduced into the environment from mining, smelting, electroplating, fossil-fuel use, fertilizer application, and sewage-sludge disposal. (Kidney effects - MCL 0.005 mg/L)

Lead -- Widely dispersed in the environment, sedimentary rocks are a natural source. Generally found in low concentrations in water samples except where effluents from industry, mining, and smelting reach the streams. (Kidney, nervous-system damage - MCL 0.015 mg/L)

Selenium -- Generally more prevalent in the Great Plains and Great Basin, it is found locally in sedimentary rocks, mining, smelting, and in fly ash, a by-product of coal combustion. It is rare in most water samples. (Liver damage - MCL 0.05 mg/L)

US Environmental Protection Agency, 1995, National Primary Drinking Standards, EPA 810-F-94-001A, February 1994, 11 p.

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 1994. 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.

Water levels measured in most other observation wells throughout the State did not indicate any significant trend. However, a record high water-level was observed at a well in Henderson County and record low water levels at two wells in Hardin County and one each in Lincoln and Jefferson Counties.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of 53 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.

Louisville and Jefferson County Metropolitan Sewer District (MSD) Sampling Network is a network of 28 surface-water-quality sites in Jefferson County, including a control site in Bernheim Forest in Bullitt 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 28 sites are sampled monthly. At six of the sites, continuous-record streamflow is determined.

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 142 sites in NASQAN are generally located at the downstream ends of hydrologic accounting

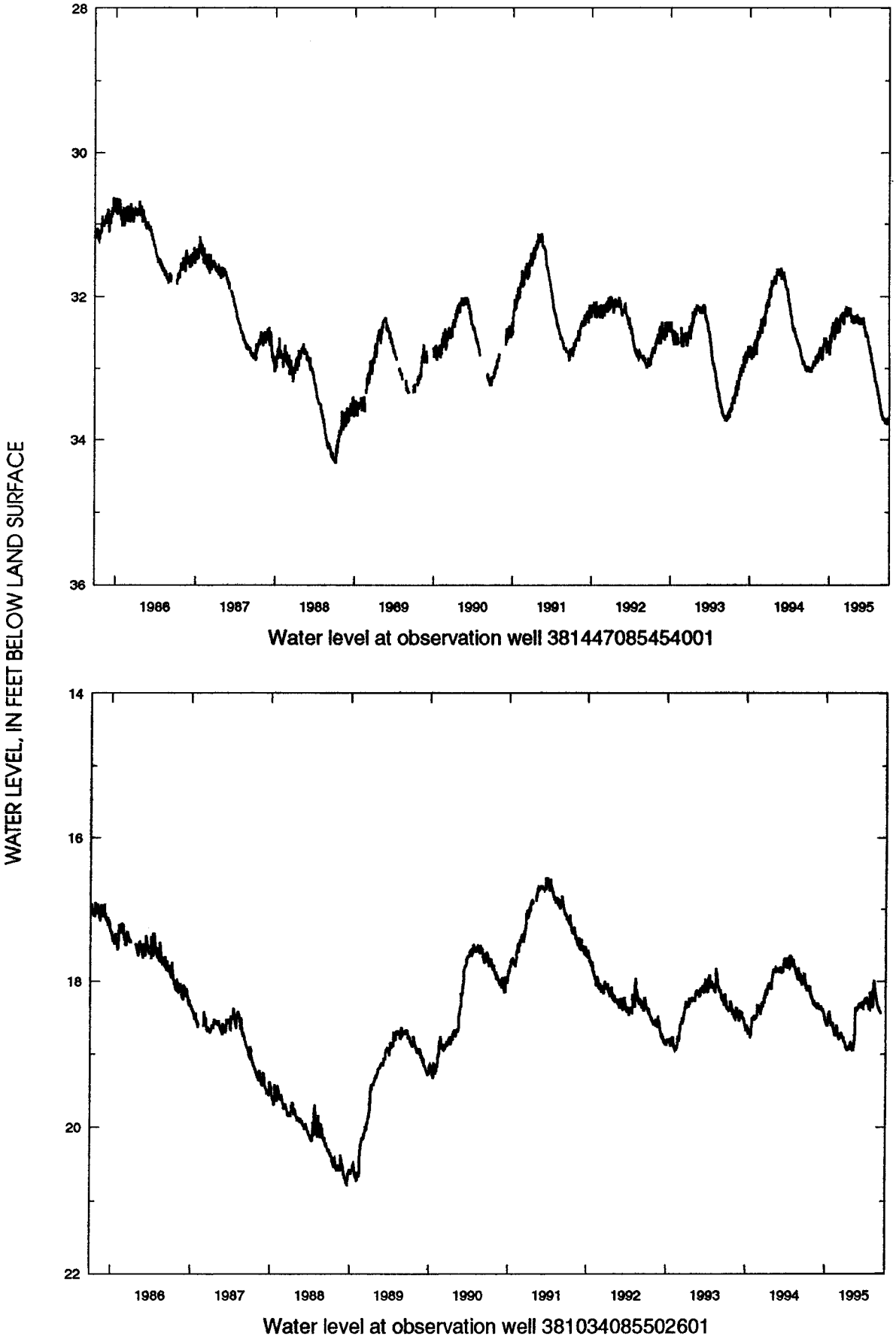


Figure 2.--Ten- year hydrographs of wells in downtown Louisville and southwest Jefferson County

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.

NASQAN was redesigned in 1995 and will be known as NASQAN II beginning in 1996. NASQAN II will focus on four of the largest river basins in the Nation-- the Mississippi, the Columbia, the Colorado, and the Rio Grande. The objective of NASQAN II 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 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 wet atmospheric deposition, which includes snow, rain, sleet and hail. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (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, diverse, and geographically distributed part of the Nation's ground- and surface-water resources, and to identify, describe, and explain the major natural and human factors that affect these observed conditions and trends.

Assessment activities have begun in about two-thirds of the study units and ultimately will be conducted in 60 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.

Radiochemical Programs 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.

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 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.

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 1995 water year that began October 1, 1994, and ended September 30, 1995. 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 (µg/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Present data above the µg/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey will begin using new trace-element protocols in the near future.

Station Identification Numbers

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

Downstream Order System

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

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

Latitude-Longitude System

The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description (fig.3).

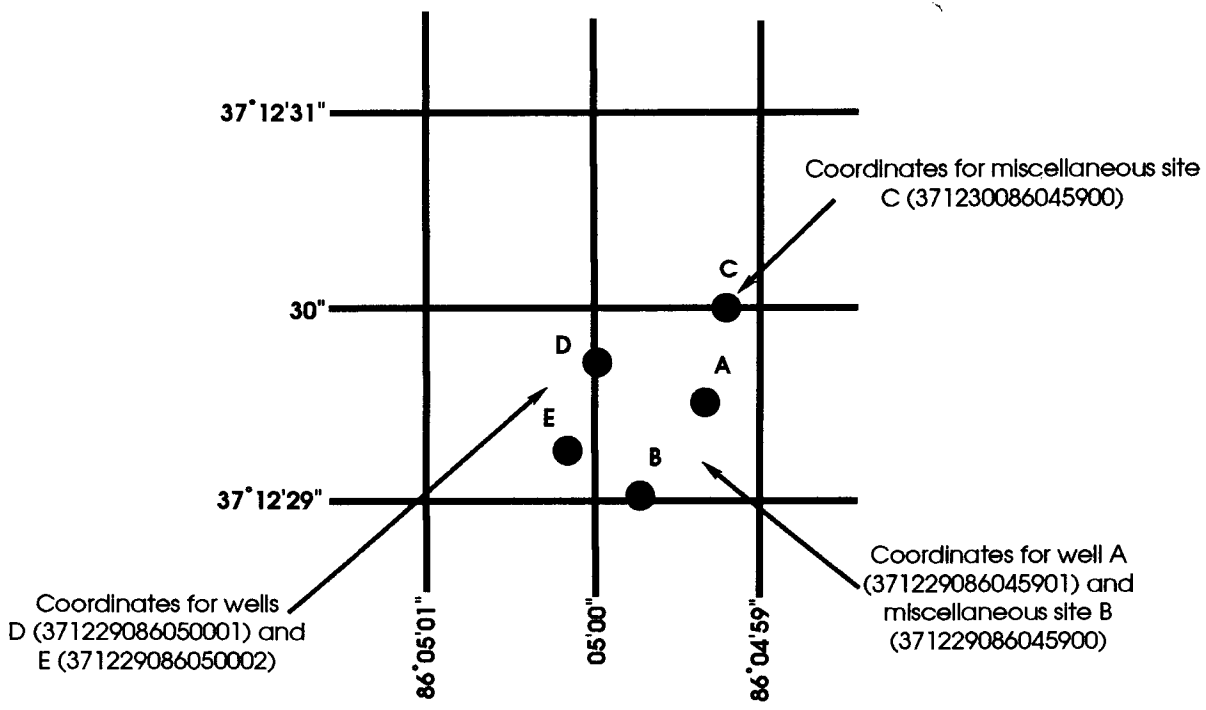


Figure 3. System for numbering wells, springs, and miscellaneous sites (latitude and longitude).

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 ft^3/s; to the nearest tenth between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to three significant figures for more than 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

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

Other Records Available

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

Records of Surface-Water Quality

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

Classification of Records

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

A careful distinction needs to be made between "continuing records," as used in this report, and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. 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 8-10.

Data Collection and Computation

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

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

Water-level records are obtained from direct measurements with a steel tape or from 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 special conductance are both determined electrometrically according to methods described in the National Atmospheric Deposition Program "NADP Instruction Manual: Site Operation." The remainder of the sample is then used for laboratory chemical analyses. This portion of the sample is shipped to the laboratory raw and untreated. In the case of NTN operation, the original bucket is resealed and mailed to the Illinois State Water Survey Central Analytical Laboratory (CAL) for analysis. In all other instances, sample portions are preserved, treated, and analyzed according to specific project requirements.

Data Presentation

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

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

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

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

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

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

ACCESS TO 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 grouhd 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 [$(ft^3/s)/mi^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming 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 um 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 (µg/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per liter (UG/L, µg/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:

Classification	Size (mm)			Method of analysis
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 [mg C/(m^2,time)] for periphyton and macrophytes and [mg C/(m^3,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 [mg O/(m^2,time)] for periphyton and macrophytes and [mg O/(m^3,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 (ft^3/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 ($7\ Q_{10}$) 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 emersed 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 planimetered. All areas shown are those for the stage when the planimetered 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
Genus	Hexagenia
Species	Hexagenia limbata

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.

3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3. Chapter A5. 1967. 29 pages.

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-AI0. *Discharge ratings at gaging stations,* by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.

3-A11. *Measurement of discharge by the moving-boat method,* by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

3-A12. *Fluorometric procedures for dye tracing,* Revised, by J. F. Wilson, Jr., E. D. Cobb, and F. A. Kilpatrick: USGS- -TWRI Book 3, 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.

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

3-A19. *Levels at streamflow gaging stations,* by E.J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 31 pages.

3-A20. *Simulation of soluable waste transport and buildup in surface waters using tracers,* by F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A20. 1993. 38 pages.

3-A21 *Stream-gaging cableways,* by C. Russell Wagner: USGS--TWRI Book 3, Chapter A21. 1995. 56 pages.

3-B1. *Aquifer-test design, observation, and data analysis,* by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction,* by G. D. Bennett: USGS-- TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers,* by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.

3-B4. *Regression modeling of ground-water flow,* by R. L. Cooley and R. L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 pages.

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

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

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

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

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

3-C1. *Fluvial sediment concepts,* by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. *Field methods for measurement of fluvial sediment,* by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.

3-C3. *Computation of fluvial-sediment discharge,* by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

4-A1. *Some statistical tools in hydrology,* by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.

4-A2. *Frequency curves,* by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

4-B1. *Low-flow investigations,* by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. *Storage analyses for water supply,* by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. *Regional analyses of streamflow characteristics,* by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

4-D1. *Computation of rate and volume of stream depletion by wells,* by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.

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

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

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

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

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

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

5-C1. *Laboratory theory and methods for sediment analysis,* by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

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

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

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

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

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

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

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

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

8-A1. *Methods of measuring water levels in deep wells,* by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.

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

8-B2. *Calibration and maintenance of vertical-axis type current meters,* by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

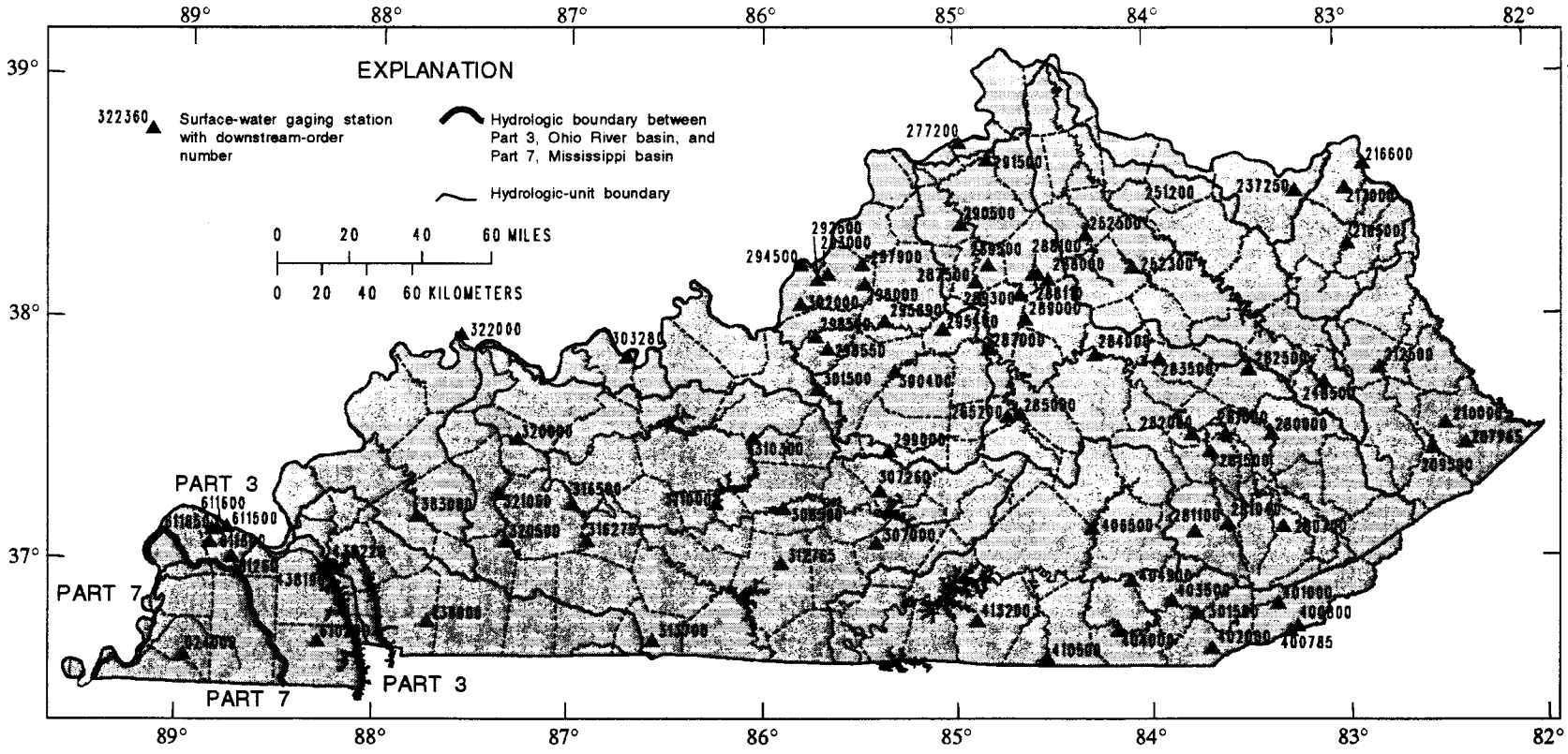


Figure 4. Location of gaging stations in Kentucky.

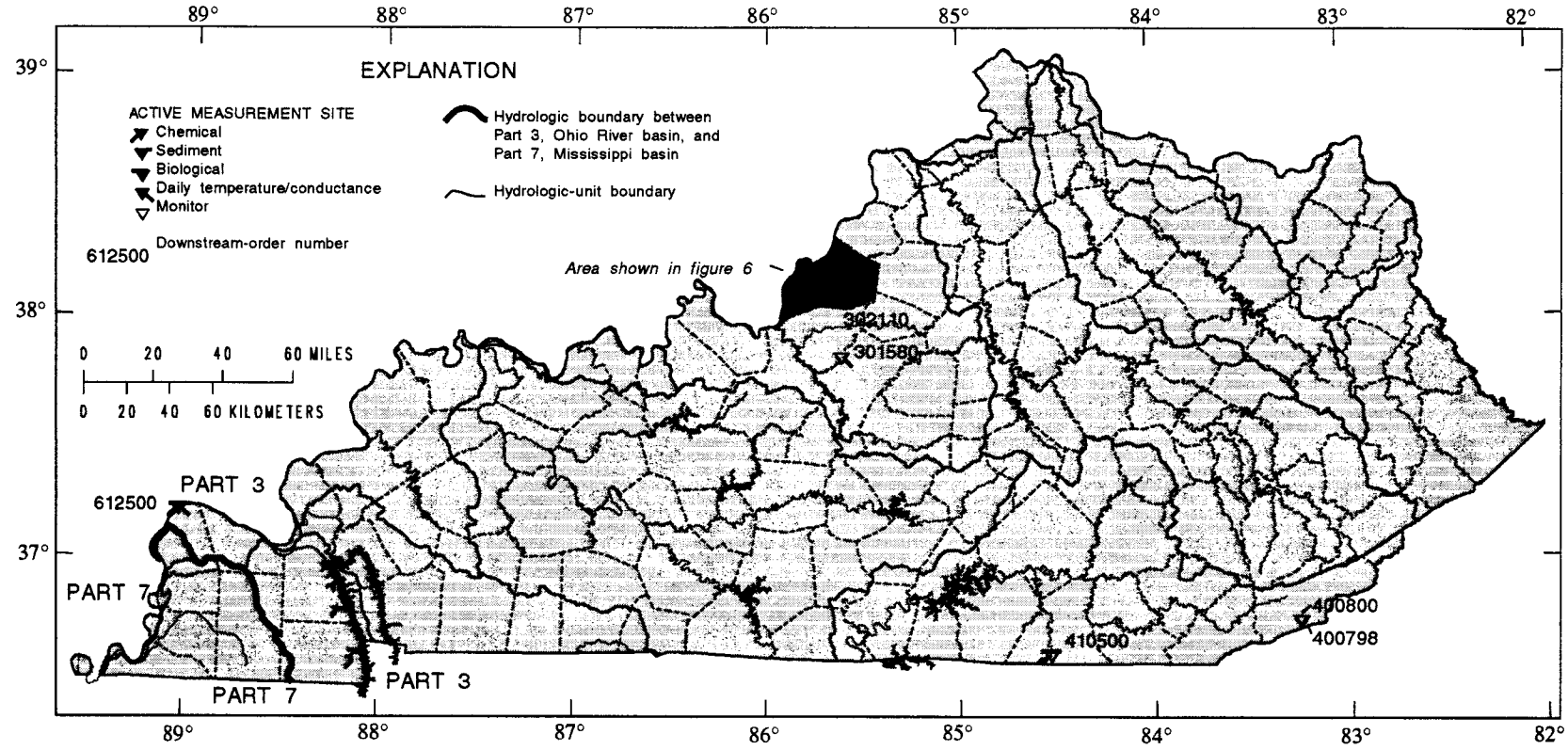


Figure 5. Location of surface-water quality stations in Kentucky.

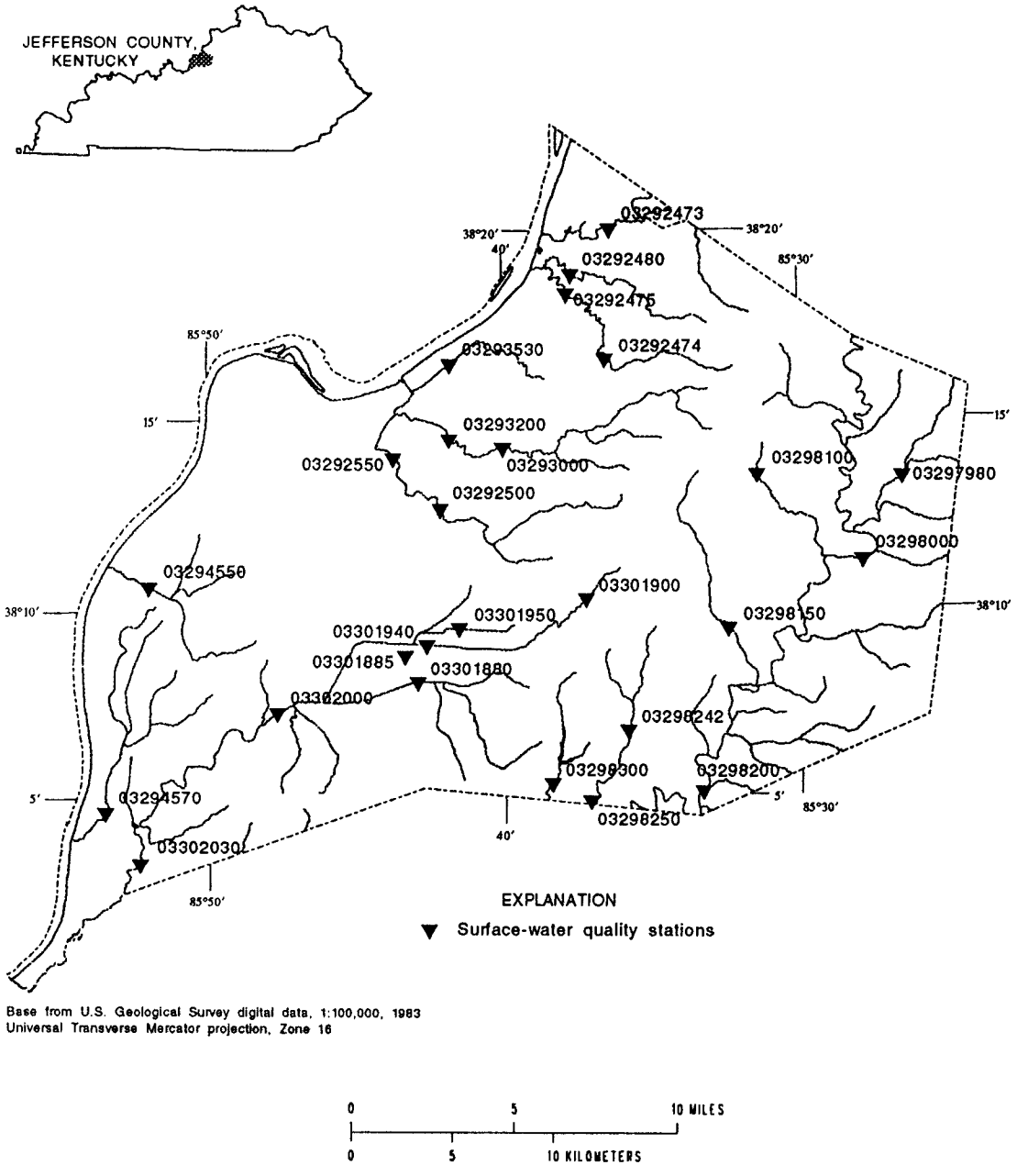


Figure 6. Location of surface-water quality stations in Jefferson County for the Metropolitan Sewer District Sampling Network.

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 mi^2.

PERIOD OF RECORD.--October 1973 to September 1982, 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. 5-14 and Apr. 6-11. Records good except for period of estimated record, which are fair. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	1.2	4.4	1.9	.89	9.4	6.1	2.9	6.5	7.4	4.9	1.1	2.3
2	1.3	3.4	1.8	1.5	7.8	6.4	3.0	11	8.5	3.3	1.8	1.5
3	1.6	2.9	1.9	1.0	7.3	6.6	2.7	9.1	6.9	2.9	1.4	1.5
4	1.6	2.3	4.5	.77	22	6.7	2.8	9.1	5.4	2.6	1.3	1.5
5	1.8	2.3	6.1	1.0	17	7.9	2.8	12	4.1	2.4	1.2	1.4
6	1.8	2.6	3.9	24	13	10	3.0	9.8	3.4	1.9	1.3	1.4
7	1.8	2.4	2.7	29	9.2	10	2.6	8.3	3.1	1.9	1.2	1.4
8	1.8	2.3	2.1	13	6.9	18	2.5	6.8	3.0	1.8	.91	1.3
9	2.2	2.8	1.8	10	5.2	22	2.3	7.7	3.4	1.7	1.1	1.2
10	2.5	2.9	3.6	5.7	3.9	22	2.3	7.8	2.7	1.7	6.4	1.1
11	2.5	2.3	7.2	3.7	3.5	28	2.0	13	6.9	1.6	1.7	1.8
12	2.6	2.3	4.2	5.6	3.2	36	4.4	10	15	1.4	1.0	1.9
13	3.9	2.4	3.1	4.7	3.1	25	3.8	42	12	1.4	1.1	2.3
14	3.8	2.2	2.7	6.1	3.0	18	3.4	145	7.1	1.2	1.2	2.2
15	1.8	1.8	2.2	39	69	14	3.1	43	5.1	.90	1.5	1.8
16	2.1	2.5	1.9	40	68	12	3.1	21	3.5	2.3	1.5	3.2
17	2.1	2.4	1.9	19	32	9.1	3.7	16	2.9	2.9	1.1	5.9
18	2.2	2.3	1.9	13	20	7.4	4.0	22	2.6	1.7	.66	2.4
19	3.3	2.3	1.7	8.7	15	6.4	3.3	129	2.6	1.4	.63	2.0
20	3.8	2.3	1.4	9.0	12	6.1	6.8	31	2.9	1.2	1.1	1.6
21	3.1	2.4	1.4	8.3	11	14	8.0	19	3.5	.90	1.1	1.9
22	3.2	2.3	1.3	6.4	11	12	5.5	14	3.0	.90	1.3	5.2
23	4.9	2.4	1.2	5.4	7.9	11	6.7	9.3	8.0	.90	1.2	2.7
24	3.1	2.4	1.2	4.6	5.7	8.6	11	6.5	5.8	1.8	1.2	2.3
25	2.4	2.1	1.2	4.7	4.9	7.2	11	5.4	3.8	3.1	1.1	2.0
26	2.6	2.2	1.1	2.5	4.9	6.1	11	4.8	2.9	5.1	1.0	4.7
27	3.2	4.0	.93	2.3	5.2	6.3	9.4	3.5	2.3	2.3	1.0	2.8
28	2.9	4.1	.90	6.3	7.3	5.2	7.4	3.5	2.3	1.6	1.0	2.2
29	2.6	2.6	.90	14	---	4.5	5.4	3.5	4.6	1.2	1.0	1.9
30	2.9	2.3	.84	14	---	3.9	6.0	3.2	4.3	1.5	1.2	1.7
31	2.5	---	.77	11	---	3.7	---	2.5	---	1.0	1.4	---
TOTAL	79.1	77.9	70.24	315.16	388.4	360.2	145.9	635.3	149.0	61.40	41.70	67.1
MEAN	2.55	2.60	2.27	10.2	13.9	11.6	4.86	20.5	4.97	1.98	1.35	2.24
MAX	4.9	4.4	7.2	40	69	36	11	145	15	5.1	6.4	5.9
MIN	1.2	1.8	.77	.77	3.0	3.7	2.0	2.5	2.3	.90	.63	1.1
CFSM	.41	.42	.37	1.64	2.24	1.87	.78	3.31	.80	.32	.22	.36
IN.	.47	.47	.42	1.89	2.33	2.16	.88	3.81	.89	.37	.25	.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1995, BY WATER YEAR (WY)

MEAN	4.22	7.23	9.09	15.7	14.0	18.3	12.9	10.6	7.79	2.43	2.60	2.09
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 WATER YEAR		WATER YEARS 1974 - 1995	
ANNUAL TOTAL	2391.40			
ANNUAL MEAN	6.55		8.53	
HIGHEST ANNUAL MEAN			17.2	1974
LOWEST ANNUAL MEAN			5.30	1992
HIGHEST DAILY MEAN	145	May 14	832	Oct 1 1982
LOWEST DAILY MEAN	.63	Aug 19	.01	Aug 19 1982
ANNUAL SEVEN-DAY MINIMUM	.90	Dec 26	.04	Sep 22 1981
INSTANTANEOUS PEAK FLOW	327	May 14	1650	Jun 1 1974
INSTANTANEOUS PEAK STAG	1.87	May 14	9.10	Apr 7 1977
ANNUAL RUNOFF (CFSM)	1.06		1.38	
ANNUAL RUNOFF (INCHES)	14.35		18.69	
10 PERCENT EXCEEDS	13		18	
50 PERCENT EXCEEDS	3.0		3.0	
90 PERCENT EXCEEDS	1.2		.33	

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 90.5.

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

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

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

GAGE.--Water-stage recorder. 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 discharge. 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). Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	275	545	392	165	2570	3300	564	631	740	1050	214	166
2	434	583	234	174	1890	2810	530	958	1010	1200	360	173
3	434	515	212	241	1670	2120	503	1150	1540	979	282	162
4	322	515	229	236	5060	1890	484	1010	1110	633	236	153
5	319	511	381	209	6360	1800	465	1110	991	466	218	152
6	329	506	444	309	3980	2290	451	1070	810	433	212	150
7	278	504	446	3530	2990	2910	440	909	733	347	212	147
8	270	495	348	3430	2330	3610	434	785	624	316	210	185
9	464	488	326	2640	1480	6270	428	720	565	304	213	195
10	488	496	277	1970	1390	5840	423	882	506	295	213	206
11	329	524	455	1200	1390	4840	404	1440	590	286	252	203
12	342	529	930	1180	1350	5780	426	1680	1260	244	248	243
13	381	525	1000	1120	863	5980	481	2300	1250	231	235	280
14	523	513	611	1060	989	4660	439	9300	780	223	211	239
15	763	445	454	4850	3970	3370	401	12700	635	217	196	211
16	811	439	415	9260	11500	2750	391	8720	652	229	185	210
17	709	440	316	7600	10600	2220	388	6000	640	253	181	300
18	612	431	360	5070	7000	1800	389	3970	374	373	184	315
19	550	369	397	2630	4540	1450	382	11900	328	395	192	355
20	618	346	345	1850	3620	1430	428	7620	384	265	295	303
21	699	349	303	2000	2930	1810	685	8540	633	243	306	288
22	739	417	277	2040	2100	2020	849	6600	913	218	226	327
23	928	419	232	1670	1820	1790	816	3550	663	198	186	421
24	948	367	222	1380	1640	1730	1170	1960	552	208	171	388
25	933	362	218	1200	1370	1550	1330	1280	1070	262	166	371
26	879	323	214	992	1140	1230	1090	1170	1250	336	162	499
27	728	272	245	897	1270	1320	910	1170	697	286	159	580
28	664	443	249	915	1670	1240	794	1200	547	265	157	501
29	648	899	186	1660	---	1060	696	1110	436	239	153	374
30	625	650	241	3210	---	1010	644	973	806	228	153	311
31	579	---	175	3370	---	870	---	768	---	219	149	---
TOTAL	17621	14220	11134	68058	89482	82750	17835	103176	23089	11441	6537	8408
MEAN	568	474	359	2195	3196	2669	594	3328	770	369	211	280
MAX	948	899	1000	9260	11500	6270	1330	12700	1540	1200	360	580
MIN	270	272	175	165	863	870	382	631	328	198	149	147

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1995, BY WATER YEAR (WY)

MEAN	838	1151	1639	2358	2878	2943	2304	1996	979	562	473	482
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1969 - 1995	
ANNUAL TOTAL	761286		453751			
ANNUAL MEAN	2086		1243		1544	
HIGHEST ANNUAL MEAN					2459	1979
LOWEST ANNUAL MEAN					522	1988
HIGHEST DAILY MEAN	21600	Mar 28	12700	May 15	69300	Apr 5 1977
LOWEST DAILY MEAN	175	Dec 31	147	Sep 7	66	Dec 3 1970
ANNUAL SEVEN-DAY MINIMUM	218	Dec 25	157	Aug 25	103	Oct 10 1968
INSTANTANEOUS PEAK FLOW			14800	May 15	85500	Jan 30 1957
INSTANTANEOUS PEAK STAGE			26.09	May 15	52.72	Jan 30 1957
INSTANTANEOUS LOW FLOW					66	Dec 3 1970
10 PERCENT EXCEEDS	5830		3080		3590	
50 PERCENT EXCEEDS	680		525		760	
90 PERCENT EXCEEDS	283		212		230	

BIG SANDY RIVER BASIN

03210000 JOHNS CREEK NEAR META, KY

LOCATION.--Lat 37°34'01", long 82°27'29", Pike County, Hydrologic Unit 05070203, on 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 mi^2.

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

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

GAGE:--Water-stage recorder. 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. 5-14. Record fair. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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

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	6.4	12	9.2	6.1	92	88	35	49	27	44	6.0	29
2	7.8	11	7.9	6.8	78	81	34	90	61	30	8.1	17
3	8.2	8.0	8.2	5.9	71	79	29	83	55	21	6.7	10
4	7.4	7.0	12	4.9	229	79	27	78	52	17	5.2	9.4
5	7.2	7.3	50	9.8	175	81	23	86	35	14	5.6	9.3
6	6.8	6.8	40	129	120	85	25	60	30	14	8.2	8.4
7	6.3	6.6	25	350	84	91	22	50	26	13	11	7.5
8	7.0	6.9	18	131	65	153	21	41	23	12	6.7	7.2
9	8.4	7.2	14	85	52	203	20	42	22	11	6.0	7.6
10	9.6	7.5	26	57	43	195	20	94	21	11	37	9.2
11	7.0	7.9	75	41	36	250	16	264	25	9.4	14	9.8
12	6.6	7.8	43	38	34	314	26	159	72	8.8	9.0	8.1
13	10	9.8	27	33	32	239	26	196	52	8.4	7.7	6.9
14	17	12	20	30	31	169	21	1060	35	7.6	7.6	8.3
15	9.9	7.6	16	375	462	133	19	526	31	6.8	6.3	6.8
16	8.3	6.9	13	532	662	112	21	252	24	10	5.7	9.8
17	7.4	7.4	13	190	360	87	21	255	21	8.2	5.1	31
18	6.7	6.7	11	113	215	69	20	444	20	22	4.7	13
19	8.0	6.9	9.7	83	152	65	19	1510	20	9.0	46	10
20	19	6.7	8.3	100	119	63	47	343	20	7.6	16	9.0
21	15	6.7	7.6	86	108	93	72	177	19	7.3	15	10
22	9.7	7.4	7.3	67	85	79	59	119	17	6.8	12	26
23	26	7.2	7.8	60	76	75	60	88	20	7.4	5.7	21
24	15	6.7	7.4	49	68	65	98	68	34	8.0	4.6	11
25	9.4	6.7	7.1	41	60	61	103	55	26	10	4.3	11
26	8.0	6.9	6.3	38	54	53	98	48	20	15	3.7	21
27	7.3	12	6.2	35	55	52	78	42	18	8.5	5.4	17
28	8.9	27	5.5	60	91	49	70	41	17	7.2	5.7	11
29	7.5	21	5.3	175	---	45	68	35	17	6.7	4.1	9.5
30	6.6	12	5.4	182	---	47	55	29	23	7.2	3.4	9.0
31	6.8	---	5.5	127	---	41	---	26	---	7.2	3.5	---
TOTAL	295.2	273.6	517.7	3240.5	3709	3296	1253	6410	883	376.1	290.0	373.8
MEAN	9.52	9.12	16.7	105	132	106	41.8	207	29.4	12.1	9.35	12.5
MAX	26	27	75	532	662	314	103	1510	72	44	46	31
MIN	6.3	6.6	5.3	4.9	31	41	16	26	17	6.7	3.4	6.8
CFSM	.17	.16	.30	1.86	2.35	1.89	.74	3.67	.52	.22	.17	.22
IN.	.20	.18	.34	2.14	2.45	2.18	.83	4.24	.58	.25	.19	.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

MEAN	17.5	38.0	76.7	108	140	165	117	70.7	37.2	25.0	16.8	16.0
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 WATER YEAR		WATER YEARS 1941 - 1995	
ANNUAL TOTAL	20917.9			
ANNUAL MEAN	57.3		68.9	
HIGHEST ANNUAL MEAN			135	1974
LOWEST ANNUAL MEAN			24.5	1954
HIGHEST DAILY MEAN	1510	May 19	3340	May 7 1984
LOWEST DAILY MEAN	3.4	Aug 30	.00	Oct 1 1941
ANNUAL SEVEN-DAY MINIMUM	4.3	Aug 25	.00	Oct 1 1941
INSTANTANEOUS PEAK FLOW	2580	May 19	7380	Mar 12 1963
INSTANTANEOUS PEAK STAGE	14.96	May 19	19.62	May 7 1984
INSTANTANEOUS LOW FLOW	.00			Oct 1 1941
ANNUAL RUNOFF (CFSM)	1.02		1.22	
ANNUAL RUNOFF (INCHES)	13.82		16.62	
10 PERCENT EXCEEDS	119		157	
50 PERCENT EXCEEDS	20		22	
90 PERCENT EXCEEDS	6.7		1.8	

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 mi^2.

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

REVISED RECORDS.--WSP 953: Drainage area.

GAGE.--Water-stage recorder. 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: Oct. 1-4, Oct. 26 to Nov. 6, Jan. 12-16, 20-22, Jan. 27 to Feb. 1, Feb. 4-13, 15, 16 , 20, 21, and May 25. Records good except for periods of estimated record, which are poor. 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). Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	360	800	973	456	4100	4070	1360	1480	1340	1220	329	366
2	510	810	741	398	3400	4510	1070	2190	1360	1560	486	451
3	515	790	549	395	2820	3860	995	2760	1720	1460	537	316
4	400	780	505	380	7900	3240	936	2390	2080	1200	422	277
5	429	790	737	448	9800	2960	897	2450	1610	875	376	256
6	470	800	956	737	6200	3470	862	2610	1450	714	356	248
7	463	792	949	4900	4800	4370	837	2400	1250	653	328	241
8	429	783	869	6400	3700	6390	801	2170	1110	532	332	235
9	393	751	749	5130	2400	8970	793	1980	949	485	340	257
10	558	742	908	3660	2200	10100	774	2290	863	467	306	271
11	599	756	1720	2670	2100	8580	755	3880	832	467	293	279
12	456	778	1560	2300	2000	9330	766	4570	2320	445	329	288
13	490	788	1890	2000	1300	9880	816	3920	3580	402	322	303
14	645	768	1640	1900	1520	8520	836	13300	2260	384	311	353
15	736	757	1120	9200	6300	5730	780	18200	1390	380	286	324
16	939	708	853	17000	18000	4400	737	17100	1100	379	268	304
17	985	699	772	15600	17400	3790	734	13200	1000	393	260	353
18	871	700	678	13300	14400	3330	735	11000	936	402	255	405
19	766	681	681	9730	8710	2890	723	17000	696	478	262	404
20	780	633	676	6600	7000	2510	769	17300	625	519	267	443
21	816	601	625	3500	4950	2710	1080	13500	734	390	343	392
22	883	593	575	3400	3910	3210	1320	13100	959	359	360	391
23	945	622	555	3250	3220	2940	1890	9880	1180	347	319	459
24	1130	637	502	2710	2890	2870	5120	6910	1140	344	271	530
25	1110	582	476	2230	2480	2690	3730	4640	1190	326	256	489
26	1020	562	465	2010	2170	2330	3540	2810	1470	448	249	467
27	1010	579	454	1400	2000	1980	3040	2030	1470	440	246	614
28	980	844	452	1500	3060	2060	2260	1980	1000	387	246	694
29	910	1020	499	2800	---	1870	1810	1910	811	358	248	617
30	900	1260	431	4900	---	1670	1600	1710	1040	321	253	456
31	820	---	430	5200	---	1590	---	1490	---	303	259	---
TOTAL	22318	22406	24990	136104	150730	136820	42366	202150	39465	17438	9715	11483
MEAN	720	747	806	4390	5383	4414	1412	6521	1315	563	313	383
MAX	1130	1260	1890	17000	18000	10100	5120	18200	3580	1560	537	694
MIN	360	562	430	380	1300	1590	723	1480	625	303	246	235

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1995, BY WATER YEAR (WY)

MEAN	1173	1868	2891	4006	5034	5183	4127	3353	1632	870	777	729
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1969 - 1995	
ANNUAL TOTAL	1422743		815985			
ANNUAL MEAN	3898		2236		2625	
HIGHEST ANNUAL MEAN					4234	1975
LOWEST ANNUAL MEAN					830	1988
HIGHEST DAILY MEAN	28200	Mar 29	18200	May 15	42000	Apr 6 1977
LOWEST DAILY MEAN	360	Oct 1	235	Sep 8	98	Oct 1 1968
ANNUAL SEVEN-DAY MINIMUM	393	Sep 11	251	Aug 25	122	Aug 27 1969
INSTANTANEOUS PEAK FLOW			18700	May 20	69700	Jan 31 1957
INSTANTANEOUS PEAK STAGE			23.56	May 20	45.92	Jan 31 1957
INSTANTANEOUS LOW FLOW			235	Sep 8	98	Oct 1 1968
10 PERCENT EXCEEDS	12600		5160		6340	
50 PERCENT EXCEEDS	985		869		1240	
90 PERCENT EXCEEDS	522		329		366	

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 mi^2.

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

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

GAGE.--Water-stage recorder. Datum of gage is 557.95 ft above 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: Jan. 16-18, and 21-23. Records good except for periods of estimated record, which are fair. Flow regulated since March 1968 by Grayson Lake (station 03216300). Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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 ft^3/s.

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	33	39	197	62	1230	1230	142	275	145	64	38	30
2	33	38	165	63	740	1080	135	1780	204	56	36	31
3	32	38	70	61	683	767	127	1640	141	52	39	32
4	32	39	69	58	598	423	122	1280	127	53	41	32
5	32	39	305	48	508	467	115	1390	84	52	44	31
6	33	45	527	77	286	947	109	1210	75	94	427	29
7	32	62	151	1490	377	1480	107	574	71	94	252	29
8	32	34	111	766	392	2140	105	593	73	63	141	29
9	33	34	92	1470	259	3040	109	622	75	55	144	29
10	33	48	263	1130	264	2510	109	1480	120	49	121	30
11	32	154	1080	693	240	1950	103	2030	650	46	166	29
12	32	154	777	555	169	2210	115	1160	1570	43	146	30
13	35	154	757	365	169	1600	193	950	2070	41	68	31
14	41	144	576	228	150	1010	173	1380	710	40	56	31
15	40	95	398	3010	191	649	153	1940	285	39	49	30
16	40	71	136	5020	1090	598	145	2140	305	39	45	37
17	40	90	135	4210	2000	405	148	1700	348	38	42	92
18	39	114	142	2900	1430	287	176	4820	173	37	39	70
19	39	131	132	2110	911	277	163	4160	105	36	38	49
20	44	129	207	2010	508	291	150	3690	84	35	38	40
21	41	128	233	1350	473	362	203	2740	78	35	36	37
22	39	125	203	1090	534	435	258	2400	73	35	35	37
23	39	110	87	888	490	457	238	2170	69	36	34	35
24	38	110	79	637	343	437	1720	1660	70	36	33	34
25	38	107	76	394	315	291	900	1070	71	38	33	33
26	39	77	72	333	263	267	451	288	106	43	32	33
27	38	81	69	290	245	274	342	172	121	42	33	32
28	38	416	66	648	600	299	461	174	123	45	32	32
29	38	839	64	2420	---	306	446	166	63	61	31	31
30	38	246	62	1830	---	210	239	155	60	49	31	30
31	38	---	62	1520	---	186	---	150	---	41	31	---
TOTAL	1131	3891	7363	37726	15458	26885	7957	45959	8249	1487	2331	1075
MEAN	36.5	130	238	1217	552	867	265	1483	275	48.0	75.2	35.8
MAX	44	839	1080	5020	2000	3040	1720	4820	2070	94	427	92
MIN	32	34	62	48	150	186	103	150	60	35	31	29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1995, BY WATER YEAR (WY)

MEAN	181	353	671	737	945	965	684	615	262	154	112	129
MAX	733	993	2630	1954	2886	2415	2291	1890	928	841	382	585
(WY)	1990	1987	1979	1974	1989	1994	1972	1983	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1969 - 1995	
ANNUAL TOTAL	248963		159512			
ANNUAL MEAN	682		437		482	
HIGHEST ANNUAL MEAN					838	1979
LOWEST ANNUAL MEAN					116	1969
HIGHEST DAILY MEAN	8620	Mar 10	5020	Jan 16	12900	Dec 9 1978
LOWEST DAILY MEAN	30	Sep 12	29	Sep 6	5.8	Oct 1 1968
ANNUAL SEVEN-DAY MINIMUM	31	Sep 10	29	Sep 6	18	Nov 1 1968
INSTANTANEOUS PEAK FLOW			5590	May 18	24500	Sep 22 1950
INSTANTANEOUS PEAK STAGE			18.57	May 18	27.53	Sep 22 1950
INSTANTANEOUS LOW FLOW					1.5	Oct 12 1953
10 PERCENT EXCEEDS	2540		1450		1370	
50 PERCENT EXCEEDS	92		125		172	
90 PERCENT EXCEEDS	33		33		40	

OHIO RIVER MAIN STEM

03216600 OHIO RIVER AT GREENUP DAM, KY

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

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

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

GAGE.--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.--No estimated daily discharges. Records fair except for periods below 20,000 ft^3/s and those computed using dam operations records, which are poor. Flow regulated by Ohio River system of locks, dams, and reservoirs upstream from the station.

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	23800	20400	67300	26500	79800	66700	43300	45000	60000	65700	15500	13800
2	29900	57400	56100	26500	76300	42600	36200	93600	48600	66100	13600	12300
3	34500	50200	45700	27600	75800	76200	32100	146000	56600	65400	19500	12500
4	37400	41800	51400	33900	79200	131000	32200	150000	57400	49500	16600	11500
5	33700	28100	50600	32900	86500	149000	41800	113000	75200	31800	15100	11700
6	26100	57800	64100	28900	103000	126000	35000	113000	85500	33800	84800	10800
7	20900	29800	93100	19000	84500	104000	40600	106000	72900	25400	80700	10500
8	22200	28000	101000	24500	57300	83000	41600	90000	53200	27800	93900	14100
9	20300	28500	98500	68200	52800	190000	35000	71300	46100	18400	65300	12200
10	19800	44400	93100	102000	49800	201000	25100	61400	56400	23700	40900	12400
11	22200	48000	169000	84100	42700	202000	44300	39300	58900	20400	46300	12500
12	18300	38700	192000	74100	51800	203000	55000	67700	127000	13300	35600	11900
13	14800	42900	172000	73400	30800	210000	60900	161000	166000	13200	50100	10900
14	17100	44000	145000	84300	26600	199000	68900	217000	134000	16900	26000	16000
15	18700	40400	125000	184000	37500	151000	75700	243000	135000	13600	23300	13900
16	18200	41800	95200	285000	131000	180000	79300	283000	88800	12600	24900	11600
17	17500	33300	79600	322000	205000	156000	70100	267000	51300	25900	22900	13400
18	17800	29700	72800	323000	213000	130000	66100	247000	35000	24100	16300	16700
19	17800	27200	66800	283000	191000	107000	56600	318000	37100	26700	14700	15500
20	15600	25200	65300	270000	163000	86000	55800	364000	24900	21200	17000	14400
21	14100	27500	63200	250000	136000	72600	58700	343000	24300	21000	22800	14600
22	13800	36500	52200	229000	134000	65400	57100	279000	28800	19700	16900	14000
23	17200	33500	51800	256000	127000	65100	56100	270000	29200	13800	14000	15300
24	18100	39400	46700	242000	123000	67100	49500	220000	39600	14800	14300	17900
25	19600	39500	39800	186000	110000	87000	65200	145000	42100	19800	15400	15800
26	19200	35600	37800	152000	107000	67500	79900	104000	43600	15600	15600	13100
27	20100	29400	31600	130000	108000	67200	80800	93800	50700	12300	11300	12600
28	20500	35300	29700	109000	97500	44500	69800	83100	49400	20600	11500	12200
29	20300	46100	33000	97200	---	57400	65800	72200	63000	26200	13800	14000
30	15700	68500	34800	102000	---	54800	52100	62600	66100	24900	14500	14800
31	13900	---	30100	91000	---	46500	---	70000	---	18900	14000	---
TOTAL	639100	1148900	2354300	4217100	2779900	3488600	1630600	4939000	1906700	803100	887100	402900
MEAN	20620	38300	75950	136000	99280	112500	54350	159300	63560	25910	28620	13430
MAX	37400	68500	192000	323000	213000	210000	80800	364000	166000	66100	93900	17900
MIN	13800	20400	29700	19000	26600	42600	25100	39300	24300	12300	11300	10500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1995, BY WATER YEAR (WY)

MEAN	41150	71880	116100	117400	145400	162900	145200	100900	64920	44850	36800	33310
MAX	111300	208600	252700	242700	259100	268600	258400	217400	174000	100700	113600	86310
(WY)	1980	1986	1973	1974	1994	1994	1994	1989	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1969 - 1995	
ANNUAL TOTAL	40238000		25197300			
ANNUAL MEAN	110200		69030		89770	
HIGHEST ANNUAL MEAN					118600	1994
LOWEST ANNUAL MEAN					49760	1988
HIGHEST DAILY MEAN	420000	Jan 31	364000	May 20	540000	Jan 12 1974
LOWEST DAILY MEAN	13800	Oct 22	10500	Sep 7	4810	Jul 24 1993
ANNUAL SEVEN-DAY MINIMUM	16300	Oct 17	11900	Sep 1	9050	Jul 11 1988
INSTANTANEOUS PEAK STAGE			47.23	May 20	59.19	Feb 28 1979
10 PERCENT EXCEEDS	318000		164000		205000	
50 PERCENT EXCEEDS	51400		46100		62800	
90 PERCENT EXCEEDS	20300		14200		17800	

TYGARTS CREEK BASIN

03217000 TYGARTS CREEK NEAR GREENUP, KY

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

DRAINAGE AREA.--242 mi^2.

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

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

GAGE.--Water-stage recorder. Datum of gage is 547.14 ft above sea level.

REMARKS.--Estimated daily discharges: Dec. 14 to Feb. 4, Sept. 14-30. Records good except for periods of estimated record, which are fair. Occasional regulation at low flow caused by withdrawal of water for cooling purposes by gas transmission plant above station. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	8.0	14	105	34	377	723	98	170	73	56	19	11
2	5.7	12	71	32	360	492	91	2380	75	123	23	11
3	4.4	10	54	30	446	345	86	1880	76	66	20	9.9
4	3.3	11	47	28	433	268	79	780	66	44	14	9.5
5	2.7	13	302	26	392	238	72	589	57	35	75	8.9
6	2.5	13	455	24	310	605	66	572	53	213	5440	8.0
7	2.4	13	224	1800	260	1240	60	423	47	472	2680	7.3
8	2.2	13	142	1100	220	1170	59	320	82	156	333	6.8
9	2.2	14	103	516	190	1700	58	283	90	85	247	6.8
10	2.1	17	274	341	165	1080	60	1330	121	58	443	6.7
11	2.0	16	1810	266	145	1110	61	1960	298	44	321	6.4
12	2.0	17	635	324	128	1370	78	1130	1380	35	320	6.1
13	1.9	17	301	399	112	939	470	634	1180	28	250	6.3
14	1.9	17	194	315	100	615	326	1360	356	24	132	7.0
15	1.9	17	142	2340	370	462	209	1690	203	22	97	7.6
16	1.9	16	114	4620	942	358	171	728	169	20	81	8.0
17	1.9	16	200	2190	1150	278	153	1710	114	18	70	480
18	2.0	16	305	806	649	225	172	4070	85	16	62	170
19	2.4	17	220	569	482	194	188	5610	69	14	60	82
20	4.0	17	160	1290	384	176	165	1990	58	13	58	58
21	6.8	17	126	1210	317	183	191	747	52	13	52	42
22	14	17	104	729	259	191	379	468	47	13	50	33
23	32	16	90	559	222	177	310	317	41	12	41	27
24	40	16	78	463	209	185	940	231	38	12	33	22
25	41	15	68	392	201	179	945	188	43	12	31	19
26	19	15	60	295	179	155	509	170	76	12	25	17
27	15	16	53	235	167	142	359	151	134	17	21	15
28	14	320	48	239	260	135	270	127	97	19	18	13
29	13	570	44	1170	---	125	217	114	63	21	17	12
30	14	192	39	728	---	112	185	98	46	26	15	11
31	13	---	37	496	---	102	---	82	---	20	13	---
TOTAL	279.2	1490	6605	23566	9429	15274	7027	32302	5289	1719	11061	1128.3
MEAN	9.01	49.7	213	760	337	493	234	1042	176	55.5	357	37.6
MAX	41	570	1810	4620	1150	1700	945	5610	1380	472	5440	480
MIN	1.9	10	37	24	100	102	58	82	38	12	13	6.1
CFSM	.04	.21	.88	3.14	1.39	2.04	.97	4.31	.73	.23	1.47	.16
IN.	.04	.23	1.02	3.62	1.45	2.35	1.08	4.97	.81	.26	1.70	.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

MEAN	58.5	158	392	476	614	681	521	378	169	117	82.8	70.3
MAX	509	869	1954	1665	1953	1556	1513	1258	994	645	445	1031
(WY)	1976	1987	1979	1950	1989	1967	1972	1983	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	132162.3		115169.5			
ANNUAL MEAN	362		316		308	
HIGHEST ANNUAL MEAN					589	1979
LOWEST ANNUAL MEAN					67.5	1954
HIGHEST DAILY MEAN	5750	Mar 10	5610	May 19	20900	Dec 9 1978
LOWEST DAILY MEAN	1.9	Oct 13	1.9	Oct 13	.00	Aug 24 1952
ANNUAL SEVEN-DAY MINIMUM	1.9	Oct 11	1.9	Oct 11	.00	Sep 17 1955
INSTANTANEOUS PEAK FLOW			6630	Aug 6	25400	Dec 9 1979
INSTANTANEOUS PEAK STAGE			17.67	Aug 6	22.75	Dec9 1979
INSTANTANEOUS LOW FLOW					.00	Aug 24 1952
ANNUAL RUNOFF (CFSM)	1.50		1.30		1.27	
ANNUAL RUNOFF (INCHES)	20.32		17.70		17.31	
10 PERCENT EXCEEDS	1010		790		696	
50 PERCENT EXCEEDS	78		90		92	
90 PERCENT EXCEEDS	11		11		5.1	

KINNICONICK CREEK BASIN

03237250 KINNICONICK CREEK AT TANNERY, KY

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

DRAINAGE AREA.--201 mi^2

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

GAGE.--Water-stage recorder. Datum of gage is 535.34 ft above sea level.

REMARKS.--Estimated daily discharges: Dec. 5-21, Dec. 28 to Jan. 25, Feb. 5-14, May 14, 17-19, July 16-20, and Aug. 6. Records fair except for periods of estimated record, which are poor.

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	6.3	2.3	114	30	247	466	76	221	31	337	8.0	20
2	5.1	1.8	86	28	267	343	70	1370	27	175	6.3	19
3	3.5	1.6	69	26	365	277	65	1090	25	108	4.5	19
4	3.1	1.5	67	25	356	236	60	653	23	73	2.5	20
5	2.5	1.6	400	24	250	218	56	536	19	53	17	17
6	2.4	2.6	520	23	210	423	51	493	15	50	3300	14
7	1.7	5.9	230	1000	180	633	46	395	12	157	436	12
8	1.0	6.1	110	500	160	832	46	319	34	114	181	9.7
9	.86	6.0	60	300	145	976	54	297	22	73	116	8.2
10	.87	6.6	250	200	130	719	83	935	52	50	84	7.7
11	.86	7.2	1000	160	120	875	80	969	131	36	306	7.2
12	.84	8.4	540	190	110	990	109	633	501	27	658	8.6
13	.84	10	300	220	105	633	461	447	368	20	207	13
14	.89	10	150	200	98	448	304	2040	161	15	114	14
15	.88	9.7	70	1400	221	338	219	1430	98	11	73	15
16	1.0	12	80	2600	1560	269	177	654	77	8.0	50	17
17	1.1	14	110	1000	902	217	165	3230	54	6.6	38	95
18	1.1	16	180	500	515	176	198	5610	39	5.2	31	148
19	1.3	17	300	350	381	151	192	3600	28	4.3	34	90
20	1.5	18	600	760	308	137	168	930	20	3.5	27	49
21	2.6	21	250	600	268	150	369	466	15	2.0	20	30
22	6.1	22	87	460	218	149	679	298	12	1.6	15	19
23	8.0	21	76	360	193	141	392	200	11	1.5	11	11
24	10	20	67	300	182	150	1070	143	7.4	3.5	9.2	7.3
25	17	18	60	230	158	132	835	109	6.7	8.1	7.2	4.8
26	13	17	53	215	147	119	561	104	33	13	4.6	1.8
27	8.7	19	48	162	142	113	430	88	33	12	8.4	1.2
28	6.2	412	42	208	278	109	346	71	67	11	19	1.1
29	4.0	358	38	756	---	99	278	61	47	17	23	2.8
30	2.7	170	35	439	---	89	239	50	29	14	24	6.3
31	2.6	---	32	310	---	82	---	38	---	10	23	---
TOTAL	118.54	1236.3	6024	13576	8216	10690	7879	27480	1998.1	1420.3	5857.7	688.7
MEAN	3.82	41.2	194	438	293	345	263	886	66.6	45.8	189	23.0
MAX	17	412	1000	2600	1560	990	1070	5610	501	337	3300	148
MIN	.84	1.5	32	23	98	82	46	38	6.7	1.5	2.5	1.1
CFSM	.02	.21	.97	2.18	1.46	1.72	1.31	4.41	.33	.23	.94	.11
IN.	.02	.23	1.11	2.51	1.52	1.98	1.46	5.09	.37	.26	1.08	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

MEAN	15.4	138	255	554	483	682	434	398	86.5	60.7	81.8	10.3
MAX	29.3	340	381	1025	816	1065	650	886	171	118	189	23.0
(WY)	1994	1994	1992	1994	1994	1994	1994	1995	1992	1992	1995	1995
MIN	2.32	20.8	194	295	293	345	263	64.8	15.6	37.2	6.55	2.07
(WY)	1993	1992	1995	1992	1995	1995	1995	1993	1994	1993	1993	1993

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1992 - 1995	
ANNUAL TOTAL	131270.84		85184.64			
ANNUAL MEAN	360		233		266	
HIGHEST ANNUAL MEAN					389	1994
LOWEST ANNUAL MEAN					221	1992
HIGHEST DAILY MEAN	6930	Jan 28	5610	May 18	6930	Jan 28 1994
LOWEST DAILY MEAN	.84	Oct 12	.84	Oct 12	.26	Sep 3 1993
ANNUAL SEVEN-DAY MINIMUM	.86	Oct 9	.86	Oct 9	.48	Aug 30 1993
INSTANTANEOUS PEAK FLOW			e10400	May 18	10400	May 18 1995
INSTANTANEOUS PEAK STAGE			e17.00	May 18	17.00	May 18 1995
ANNUAL RUNOFF (CFSM)	1.79		1.16		1.32	
ANNUAL RUNOFF (INCHES)	24.29		15.77		17.98	
10 PERCENT EXCEEDS	854		577		679	
50 PERCENT EXCEEDS	53		70		80	
90 PERCENT EXCEEDS	1.7		3.5		2.3	

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 mi^2.

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: Feb. 5-15, Aug. 25-31, and Sept. 9-12. Records good except for periods of estimated record which are fair. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality section.

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	11	21	51	26	199	359	81	171	86	68	6.7	11
2	10	20	39	29	184	260	76	295	178	66	9.2	49
3	10	21	33	27	171	216	71	261	225	35	12	18
4	9.7	19	34	24	269	194	67	217	214	27	9.5	10
5	9.4	17	154	21	250	188	62	230	140	23	7.4	7.4
6	9.2	16	149	239	220	452	58	207	111	23	9.1	5.9
7	9.0	16	98	1510	190	402	56	174	93	27	9.0	5.3
8	8.8	15	69	558	180	1140	55	149	78	23	8.3	4.5
9	9.0	14	54	270	165	1240	55	161	67	19	8.5	4.0
10	11	15	205	190	145	622	52	317	59	17	7.0	3.8
11	12	15	587	153	130	653	48	476	60	16	6.5	3.8
12	11	14	237	137	120	682	59	383	126	15	15	3.9
13	24	13	144	119	110	491	75	347	120	14	17	4.8
14	80	13	104	109	105	368	60	1810	78	13	9.6	5.1
15	71	12	82	1150	408	294	53	2490	61	13	7.5	4.8
16	37	12	70	1990	1220	244	51	975	52	13	6.2	5.5
17	26	12	69	1050	1020	206	56	834	44	16	5.7	18
18	21	12	60	406	546	177	61	1400	39	36	5.3	21
19	20	12	52	291	373	156	56	2720	36	14	11	16
20	24	12	47	402	289	143	97	1750	37	11	13	10
21	25	12	42	360	244	199	283	573	42	9.7	8.0	8.3
22	29	12	39	274	197	188	241	360	37	8.9	6.0	8.0
23	25	12	38	224	172	168	290	261	36	8.7	5.1	10
24	22	11	36	185	155	154	1790	204	34	11	4.7	12
25	21	11	34	149	133	135	792	168	65	13	4.2	9.8
26	19	11	31	137	122	121	387	155	46	23	3.8	9.1
27	18	15	29	118	115	115	286	128	33	18	3.2	11
28	17	229	28	187	381	111	241	139	33	12	3.0	11
29	16	173	27	346	---	101	198	153	25	9.0	2.8	9.0
30	16	79	26	274	---	93	173	110	24	8.0	2.6	7.3
31	15	---	25	223	---	87	---	93	---	7.2	2.6	---
TOTAL	646.1	866	2693	11178	7813	9959	5930	17711	2279	617.5	229.5	307.3
MEAN	20.8	28.9	86.9	361	279	321	198	571	76.0	19.9	7.40	10.2
MAX	80	229	587	1990	1220	1240	1790	2720	225	68	17	49
MIN	8.8	11	25	21	105	87	48	93	24	7.2	2.6	3.8
CFSM	.15	.21	.62	2.58	1.99	2.29	1.41	4.08	.54	.14	.05	.07
IN.	.17	.23	.72	2.97	2.08	2.65	1.58	4.71	.61	.16	.06	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1995, BY WATER YEAR (WY)

MEAN	32.9	93.1	211	266	372	383	313	193	89.8	62.8	42.1	29.5
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 WATER YEAR		WATER YEARS 1939 - 1995	
ANNUAL TOTAL	60229.4			
ANNUAL MEAN	165		173	
HIGHEST ANNUAL MEAN			300	1975
LOWEST ANNUAL MEAN			40.3	1954
HIGHEST DAILY MEAN	2720	May 19	9010	Dec 9 1978
LOWEST DAILY MEAN	2.6	Aug 30	.00	Sep 15 1943
ANNUAL SEVEN-DAY MINIMUM	3.2	Aug 25	.00	Oct 1 1943
INSTANTANEOUS PEAK FLOW	3160	May 19	14300	Feb 3 1939
INSTANTANEOUS PEAK STAGE	19.96	May 19	25.40	Feb 3 1939
ANNUAL RUNOFF (CFSM)	1.18		1.24	
ANNUAL RUNOFF (INCHES)	16.00		16.80	
10 PERCENT EXCEEDS	363		401	
50 PERCENT EXCEEDS	52		59	
90 PERCENT EXCEEDS	8.3		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 mi^2

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

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

REMARKS.--Estimated daily discharges: Jan. 1-5, Feb. 2-13. Records good except for periods of estimated record, which are fair. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	4.0	2.3	76	33	286	346	53	116	107	25	1.8	1.5
2	2.5	2.8	43	31	210	271	48	542	215	13	25	1.4
3	1.7	2.9	28	29	190	209	45	623	211	18	4.5	1.2
4	1.2	3.0	32	27	160	178	43	311	123	19	12	.86
5	.86	2.9	612	26	130	192	40	222	88	13	14	.87
6	.60	2.6	835	24	120	350	35	193	69	11	1050	.84
7	.48	2.7	307	443	110	597	35	164	56	8.6	1670	.90
8	.44	2.5	161	669	100	2480	33	130	274	6.6	475	.82
9	.49	2.7	311	278	92	2060	114	235	1030	5.0	146	.84
10	.48	3.1	821	169	84	1180	68	492	3070	3.8	77	.85
11	.51	3.5	1870	210	78	1020	66	588	1930	3.0	93	.99
12	.46	3.9	1390	296	75	883	163	330	1410	2.5	96	.95
13	.47	4.3	382	299	72	572	143	308	1300	2.2	45	.89
14	.59	5.0	227	459	70	394	140	1290	511	1.9	26	.79
15	.56	3.8	165	2830	496	302	91	2160	248	1.6	17	.77
16	.59	12	155	3760	1880	243	71	991	166	1.7	11	.79
17	.54	50	359	2740	1280	202	85	732	118	1.6	8.2	1.0
18	.47	82	452	754	468	171	84	2330	89	1.5	6.4	.94
19	.68	39	269	537	310	148	173	5010	72	1.4	5.0	1.0
20	.87	20	184	1460	263	131	143	4080	60	1.3	10	1.0
21	1.1	11	142	1440	239	126	1420	1060	47	2.8	8.4	1.1
22	1.6	8.1	115	674	204	114	1060	396	37	3.6	4.7	1.2
23	1.6	5.8	98	406	182	122	414	268	31	3.4	3.3	1.2
24	2.0	4.4	84	296	171	107	693	198	26	3.5	2.6	1.1
25	2.3	3.4	72	217	150	91	689	214	27	2.9	2.3	1.1
26	2.5	2.7	63	187	134	80	358	178	49	2.5	1.9	1.4
27	2.6	2.7	56	170	122	72	254	134	52	2.0	1.6	1.5
28	2.3	95	48	507	288	68	196	436	31	1.9	1.4	1.3
29	2.0	567	44	1270	---	64	159	330	23	1.7	1.4	1.4
30	2.0	185	38	830	---	62	131	194	21	1.5	1.3	1.4
31	2.1	---	35	392	---	58	---	127	---	1.4	1.4	---
TOTAL	40.59	1136.1	9474	21463	7964	12893	7047	24382	11491	168.9	3823.2	31.90
MEAN	1.31	37.9	306	692	284	416	235	787	383	5.45	123	1.06
MAX	4.0	567	1870	3760	1880	2480	1420	5010	3070	25	1670	1.5
MIN	.44	2.3	28	24	70	58	33	116	21	1.3	1.3	.77
CFSM	.01	.17	1.35	3.06	1.26	1.84	1.04	3.48	1.69	.02	.55	.00
IN.	.01	.19	1.56	3.53	1.31	2.12	1.16	4.01	1.89	.03	.63	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

MEAN	10.9	174	383	673	474	725	375	412	147	140	69.4	21.9
MAX	31.4	454	727	1165	794	872	676	787	383	296	123	62.7
(WY)	1994	1994	1992	1994	1994	1993	1994	1995	1995	1992	1995	1991
MIN	1.31	14.1	182	369	284	416	235	87.4	4.41	5.45	6.87	1.06
(WY)	1995	1992	1993	1992	1995	1995	1995	1993	1991	1995	1993	199

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1991 - 1995	
ANNUAL TOTAL	141247.49		99914.69			
ANNUAL MEAN	387		274		302	
HIGHEST ANNUAL MEAN					425	1994
LOWEST ANNUAL MEAN					233	1993
HIGHEST DAILY MEAN	5910	Jan 28	5010	May 19	5910	Jan 28 1994
LOWEST DAILY MEAN	.44	Oct 8	.44	Oct 8	.44	Oct 8 1994
ANNUAL SEVEN-DAY MINIMUM	.48	Oct 7	.48	Oct 7	.48	Oct 7 1994
INSTANTANEOUS PEAK FLOW			5570	May 19	6500	Jan 28 1994
INSTANTANEOUS PEAK STAGE			21.26	May 19	23.24	Jan 28 1994
INSTANTANEOUS LOW FLOW			.24	Oct 7	.24	Oct 7 1994
ANNUAL RUNOFF (CFSM)	1.71		1.21		1.34	
ANNUAL RUNOFF (INCHES)	23.25		16.45		18.18	
10 PERCENT EXCEEDS	982		709		760	
50 PERCENT EXCEEDS	94		68		73	
90 PERCENT EXCEEDS	2.1		1.1		2.2	

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 mi^2.

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. 28 to Jan. 5, and Feb. 2-14. Records good except for periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality section.

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	8.0	11	108	53	260	173	46	77	72	101	4.7	3.3
2	8.2	8.8	89	50	200	139	43	785	104	91	3.7	3.2
3	7.9	6.8	76	48	170	118	42	508	76	53	4.0	3.1
4	6.7	6.0	112	46	145	107	40	243	81	35	13	3.2
5	5.9	5.4	560	44	125	104	38	227	67	29	7.7	3.4
6	4.3	4.3	314	340	110	234	36	235	52	26	80	3.6
7	3.0	5.2	180	1690	100	391	34	162	46	29	97	3.5
8	2.1	5.8	139	641	90	1640	32	121	43	37	49	3.6
9	1.3	5.7	114	256	81	1260	35	538	90	22	35	3.9
10	1.0	5.8	637	177	75	779	37	1020	98	13	2650	4.0
11	.64	5.7	1590	154	69	796	37	1080	65	8.5	255	3.9
12	.65	5.6	542	320	64	613	43	314	331	6.7	98	3.9
13	1.0	4.7	261	298	60	379	65	220	220	5.9	61	4.0
14	2.1	4.7	180	337	58	263	51	777	115	5.2	42	3.9
15	74	4.7	136	2630	297	197	40	639	74	22	28	3.7
16	73	5.6	117	2610	1150	152	36	302	57	183	17	7.5
17	32	5.0	270	1110	688	123	34	1610	46	76	14	11
18	14	5.7	254	460	356	102	36	3980	37	31	8.5	39
19	9.4	5.4	184	422	241	89	45	4420	31	19	7.1	24
20	15	5.7	141	1220	187	84	40	2540	27	10	46	6.5
21	23	5.6	117	619	157	91	658	465	23	6.6	33	3.9
22	53	5.3	101	365	126	89	441	275	19	5.7	14	3.0
23	52	5.6	92	262	109	74	262	195	17	5.2	7.8	2.6
24	38	5.6	86	200	104	67	1160	147	18	11	6.7	2.0
25	35	5.6	79	158	96	61	489	114	108	36	6.4	1.4
26	36	5.0	74	137	88	56	235	237	448	29	6.1	1.1
27	30	5.5	69	121	85	55	157	160	607	19	5.2	.99
28	25	311	66	1610	99	54	117	176	132	11	4.1	.85
29	25	359	62	2700	---	51	92	150	74	26	3.8	.63
30	21	151	59	787	---	49	80	97	53	15	3.5	.56
31	16	---	56	356	---	47	---	74	---	6.5	3.4	---
TOTAL	624.19	976.8	6865	20221	5390	8437	4501	21888	3231	974.3	3614.7	159.23
MEAN	20.1	32.6	221	652	192	272	150	706	108	31.4	117	5.31
MAX	74	359	1590	2700	1150	1640	1160	4420	607	183	2650	39
MIN	.64	4.3	56	44	58	47	32	74	17	5.2	3.4	.56
CFSM	.13	.21	1.44	4.24	1.25	1.77	.97	4.58	.70	.20	.76	.03
IN.	.15	.24	1.66	4.88	1.30	2.04	1.09	5.29	.78	.24	.87	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

MEAN	20.9	113	233	459	332	505	211	279	84.1	42.4	87.4	11.2
MAX	48.2	302	394	675	526	755	436	706	143	89.3	121	19.0
(WY)	1994	1994	1992	1994	1994	1994	1994	1995	1993	1992	1993	1992
MIN	2.29	16.5	70.6	166	185	272	97.6	41.3	38.3	17.2	21.5	5.31
(WY)	1993	1992	1993	1992	1992	1995	1992	1992	1992	1993	1994	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1992 - 1995	
ANNUAL TOTAL	93972.19		76882.22			
ANNUAL MEAN	257		211		198	
HIGHEST ANNUAL MEAN					284	1994
LOWEST ANNUAL MEAN					128	1992
HIGHEST DAILY MEAN	4110	Mar 10	4420	May 19	4420	May 19 1995
LOWEST DAILY MEAN	.64	Oct 11	.56	Sep 30	.56	Sep 30 1995
ANNUAL SEVEN-DAY MINIMUM	1.3	Oct 8	1.1	Sep 24	1.1	Sep 24 1995
INSTANTANEOUS PEAK FLOW			4630	May 19	4630	May 19 1995
INSTANTANEOUS PEAK STAGE			25.98	May 19	25.98	May 19 1995
ANNUAL RUNOFF (CFSM)	1.67		1.37		1.29	
ANNUAL RUNOFF (INCHES)	22.70		18.57		17.48	
10 PERCENT EXCEEDS	628		497		483	
50 PERCENT EXCEEDS	72		58		60	
90 PERCENT EXCEEDS	5.7		4.0		4.1	

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: Jan. 1-4, 2, 12, 13, 25, 26, Feb. 2-13. Records good except for periods of estimated record, which are fair. Flow regulated since December 1973 by Cave Run Lake (station 03249498). Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water- quality data section.

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	305	325	2630	750	7570	3390	1090	3130	5980	895	198	98
2	306	318	1800	710	6100	5370	969	4930	8560	916	205	92
3	306	311	1680	680	5100	4950	828	10200	8060	1380	216	86
4	297	303	2130	640	4300	4410	690	9890	5740	973	184	82
5	287	304	5520	513	3750	4330	610	6620	5070	767	270	78
6	285	306	7940	594	3300	5080	561	6490	4810	640	5430	75
7	280	304	6420	2460	2920	7040	524	6770	4610	558	6340	74
8	236	296	4240	12200	2650	28000	501	5870	4830	761	5000	74
9	213	304	3320	9570	2400	23500	1440	6340	6330	1010	2080	74
10	281	320	4620	5470	2160	16500	1430	8110	7690	742	3090	77
11	279	321	12900	4960	2020	12400	831	10900	7570	570	5390	78
12	273	317	14600	5300	1840	11800	1120	10100	8550	481	3440	78
13	293	314	8720	5700	1740	10400	1960	8030	7410	432	1420	87
14	302	309	4690	6150	1470	8550	1440	19600	6620	385	1030	77
15	307	313	3920	14400	3450	7290	1870	17200	5230	313	720	71
16	314	328	3560	26600	14100	6650	1370	13600	3770	255	533	79
17	315	643	4530	25300	12500	6130	1160	12500	2690	223	394	93
18	319	582	5090	16800	10800	5660	1220	28300	1950	199	311	103
19	350	505	4480	8480	7960	5310	1070	49800	1410	182	261	114
20	353	519	2990	10600	6910	5040	1150	45800	1100	200	232	224
21	343	445	2250	12800	6420	4900	7630	28000	927	271	239	269
22	333	394	1880	11100	5960	4430	8750	12900	848	255	221	207
23	323	365	1650	7960	5530	3850	6960	7260	1080	232	193	160
24	335	349	1350	6580	5100	3480	6790	6300	721	234	179	140
25	339	337	1150	5400	4310	2840	10500	12300	679	211	164	153
26	350	333	1020	4550	3660	2170	9520	7950	664	193	149	134
27	341	347	930	5930	3000	1880	7160	6130	808	240	141	120
28	337	966	859	7810	2740	1530	6260	7220	2210	297	131	111
29	335	2740	801	20200	---	1450	5710	7990	1680	285	120	103
30	327	4800	752	20800	---	1400	4630	6480	1160	250	112	97
31	328	---	721	12200	---	1300	---	5470	---	219	105	---
TOTAL	9592	18318	119143	273207	139760	211030	95744	392180	118757	14569	38498	3308
MEAN	309	611	3843	8813	4991	6807	3191	12650	3959	470	1242	110
MAX	353	4800	14600	26600	14100	28000	10500	49800	8560	1380	6340	269
MIN	213	296	721	513	1470	1300	501	3130	664	182	105	71

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1995, BY WATER YEAR (WY)

MEAN	1519	2950	6111	6778	7761	8188	5869	4570	2676	1477	1291	1579
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1974 - 1995	
ANNUAL TOTAL	1972545		1434106			
ANNUAL MEAN	5404		3929		4214	
HIGHEST ANNUAL MEAN					7730	1979
LOWEST ANNUAL MEAN					2006	1977
HIGHEST DAILY MEAN	46200	Jan 28	49800	May 19	74800	Feb 17 1989
LOWEST DAILY MEAN	151	Jul 11	71	Sep 15	25	Jul 8 1988
ANNUAL SEVEN-DAY MINIMUM	162	Jul 7	76	Sep 5	38	Jul 3 1988
INSTANTANEOUS PEAK FLOW			51700	May 19	95000	Mar 10 1964
INSTANTANEOUS PEAK STAGE			34.02	May 19	52.60	Mar 10 1964
INSTANTANEOUS LOW FLOW			71	Sep 14	2.5	Aug 5 1930
10 PERCENT EXCEEDS	14300		9970		10600	
50 PERCENT EXCEEDS	1270		1400		1690	
90 PERCENT EXCEEDS	245		183		256	

OHIO RIVER MAIN STEM

03277200 OHIO RIVER AT MARKLAND DAM, KY

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

DRAINAGE AREA.--83,170 mi^2, approximately.

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

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

GAGE.--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.--No estimated daily discharges. Records fair except for periods below 20,000 ft^3/s, which are poor. Daily discharge computed from head, gate openings, turbine flow, and tailwater rating. Flow regulated by Ohio River system of locks, dams, and reservoirs upstream from station.

COOPERATION.--U.S. Army Corps of Engineers.

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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27700	11000	81500	27900	113000	132000	54400	71400	116000	108000	24900	16600
2	33400	44200	72000	27600	108000	147000	51600	81100	112000	104000	23700	12700
3	40200	57500	60800	28700	108000	174000	34700	128000	117000	101000	32300	11800
4	39800	52300	66000	40100	105000	173000	34800	155000	118000	84800	25300	11800
5	37900	32100	71700	35500	116000	159000	37200	154000	129000	59900	19700	13700
6	27000	38600	83500	37000	123000	146000	45700	137000	131000	55900	139000	14100
7	20500	45600	103000	51600	113000	141000	52800	126000	119000	41600	140000	8100
8	20600	37100	102000	105000	87800	204000	53600	116000	96300	35900	128000	15300
9	20600	33300	104000	126000	79400	222000	59900	103000	84100	25600	125000	12900
10	20600	49800	106000	123000	76200	230000	59800	111000	89800	39900	116000	10100
11	23600	54300	134000	103000	61300	233000	83300	116000	92700	29000	113000	13400
12	19800	45600	170000	98400	74000	230000	90900	133000	92600	15700	98100	12600
13	16500	44100	180000	102000	55200	231000	103000	133000	148000	15500	100000	13800
14	18200	49700	163000	98200	27500	224000	108000	153000	175000	26700	66300	23000
15	21400	48900	140000	123000	62900	206000	112000	208000	165000	15200	50600	16000
16	21200	48500	112000	193000	134000	193000	106000	248000	131000	28700	48500	12700
17	18500	42800	99200	270000	171000	163000	95600	271000	87700	37900	46700	20000
18	18500	41000	92900	296000	212000	139000	93600	322000	53100	30600	30200	21200
19	18500	34000	89400	296000	222000	118000	82000	328000	61700	36900	27400	13000
20	18000	30800	89000	283000	206000	101000	80100	270000	40100	27500	35400	16600
21	14600	30800	81700	258000	176000	95300	103000	335000	46400	24800	39300	24600
22	12900	40300	71300	248000	155000	93800	115000	336000	44100	24700	31900	17700
23	18500	47500	60700	247000	146000	87900	106000	233000	44500	23300	20200	15900
24	18200	47800	61900	233000	142000	93600	107000	242000	59300	20500	14000	16800
25	17800	39000	48400	195000	135000	96400	126000	230000	70100	28600	14000	16600
26	19600	44300	43900	168000	127000	88600	121000	211000	66600	28900	29800	12400
27	21700	37100	39200	153000	127000	77500	112000	172000	72000	23700	10900	12400
28	22500	39000	33900	139000	123000	71000	99400	155000	71500	49000	8600	12400
29	22500	70200	32400	135000	---	59700	91000	160000	89400	52600	18800	15100
30	16700	80400	42700	139000	---	62400	81700	142000	104000	43800	17600	16200
31	13700	---	38500	133000	---	56600	---	127000	---	27000	16900	---
TOTAL	681200	1317600	2674600	4513000	3386300	4448800	2501100	5707500	2827000	1267200	1612100	449500
MEAN	21970	43920	86280	145600	120900	143500	83370	184100	94230	40880	52000	14980
MAX	40200	80400	180000	296000	222000	233000	126000	336000	175000	108000	140000	24600
MIN	12900	11000	32400	27600	27500	56600	34700	71400	40100	15200	8600	810

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1995, BY WATER YEAR (WY)

MEAN	50780	88410	148200	147000	177500	209400	182800	132600	86380	59640	46220	41100
MAX	144100	230600	288700	289900	291200	335400	292200	286300	219100	109500	146200	143800
(WY)	1980	1986	1973	1974	1975	1975	1972	1983	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1970 - 1995	
ANNUAL TOTAL	44269100		31385900			
ANNUAL MEAN	121300		85990		114100	
HIGHEST ANNUAL MEAN					157300	1979
LOWEST ANNUAL MEAN					60450	1988
HIGHEST DAILY MEAN	401000	Feb 12	336000	May 22	542000	Mar 17 1978
LOWEST DAILY MEAN	11000	Nov 1	8100	Sep 7	4320	Sep 23 1984
ANNUAL SEVEN-DAY MINIMUM	16900	Oct 19	12300	Sep 4	7310	Jul 1 1988
INSTANTANEOUS PEAK STAGE			47.56	May 21	55.25	Dec 13 1978
10 PERCENT EXCEEDS	328000		175000		258000	
50 PERCENT EXCEEDS	57800		70100		79300	
90 PERCENT EXCEEDS	22200		16700		21800	

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 mi^2, 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: Oct. 1 to Dec. 14, and Feb. 6-14. Records good except for periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	2.7	8.8	11	3.4	44	52	28	43	25	18	9.8	2.6
2	2.4	7.0	9.4	4.7	42	49	26	71	38	12	12	3.9
3	2.3	5.1	8.4	3.7	48	51	25	55	28	9.9	5.1	4.9
4	2.2	4.4	13	3.5	203	49	23	46	24	9.2	5.4	4.4
5	2.0	5.1	20	2.5	113	50	21	44	22	8.6	5.1	4.1
6	2.0	6.4	16	77	73	58	20	40	20	8.8	5.1	3.5
7	1.9	5.6	12	129	49	63	20	33	23	7.1	8.6	2.8
8	1.9	5.8	9.5	38	36	285	18	30	20	6.7	8.4	2.2
9	2.3	6.6	8.5	25	27	238	18	50	17	7.0	4.4	1.9
10	3.2	7.6	19	19	21	191	17	71	16	6.3	4.3	3.8
11	2.8	8.6	35	16	17	224	16	77	18	5.2	3.7	5.1
12	2.6	9.2	19	24	16	232	28	59	76	5.0	4.2	12
13	6.2	7.2	13	19	15	163	25	327	44	4.6	5.1	3.8
14	5.6	6.4	8.0	24	15	113	21	688	26	4.7	4.7	5.5
15	3.3	5.6	6.6	462	371	86	20	343	19	5.3	3.6	4.0
16	2.7	5.4	5.9	352	415	70	20	184	16	16	3.7	5.1
17	2.5	5.4	7.3	105	251	60	29	157	14	17	4.0	7.9
18	2.3	5.2	7.6	59	145	53	30	209	13	8.2	3.6	7.4
19	3.0	5.0	7.8	47	97	45	26	1150	13	5.3	11	5.0
20	10	4.7	5.6	83	76	49	146	270	26	4.8	18	4.9
21	6.5	4.7	5.0	58	74	124	133	156	29	5.3	5.6	4.5
22	4.5	4.8	4.7	43	57	83	82	103	17	5.3	4.1	13
23	4.2	4.7	6.0	36	51	75	67	74	15	6.4	3.3	12
24	4.6	4.4	5.5	29	47	62	98	60	16	5.9	2.6	5.7
25	4.3	4.4	4.9	23	39	52	76	52	15	6.4	2.7	5.2
26	3.4	4.1	4.6	21	36	45	64	55	18	12	2.8	16
27	2.7	7.0	4.8	19	36	43	57	43	12	5.0	4.1	7.9
28	2.5	52	3.9	38	57	37	49	46	11	4.4	3.8	4.8
29	1.9	20	3.5	61	---	33	42	36	9.5	5.1	2.8	3.5
30	3.9	14	3.6	62	---	31	41	31	21	4.7	2.1	3.5
31	4.9	---	3.4	50	---	31	---	27	---	5.1	1.8	---
TOTAL	107.3	245.2	292.5	1936.8	2471	2797	1286	4630	661.5	235.3	165.5	170.9
MEAN	3.46	8.17	9.44	62.5	88.2	90.2	42.9	149	22.0	7.59	5.34	5.70
MAX	10	52	35	462	415	285	146	1150	76	18	18	16
MIN	1.9	4.1	3.4	2.5	15	31	16	27	9.5	4.4	1.8	1.9
CFSM	.08	.20	.23	1.53	2.16	2.21	1.05	3.65	.54	.19	.13	.14
IN.	.10	.22	.27	1.76	2.25	2.54	1.17	4.21	.60	.21	.15	.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1995, BY WATER YEAR (WY)

MEAN	17.6	33.7	80.9	95.5	94.0	139	107	71.7	30.8	17.1	18.0	12.8
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1965 - 1995	
ANNUAL TOTAL	29087.4		14999.0			
ANNUAL MEAN	79.7		41.1		59.6	
HIGHEST ANNUAL MEAN					108	1974
LOWEST ANNUAL MEAN					22.7	1969
HIGHEST DAILY MEAN	1250	Feb 11	1150	May 19	2310	Nov 27 1973
LOWEST DAILY MEAN	1.9	Oct 7	1.8	Aug 31	.17	Jul 20 1970
ANNUAL SEVEN-DAY MINIMUM	2.1	Oct 3	2.1	Oct 3	.49	Jul 14 1970
INSTANTANEOUS PEAK FLOW			3450	May 19	7370	Mar 7 1967
INSTANTANEOUS PEAK STAGE			9.04	May 19	12.26	Mar 7 1967
INSTANTANEOUS LOW FLOW			1.8	Aug 31	.14	Jul 20 1970
ANNUAL RUNOFF (CFSM)	1.95		1.00		1.46	
ANNUAL RUNOFF (INCHES)	26.46		13.64		19.79	
10 PERCENT EXCEEDS	229		79		131	
50 PERCENT EXCEEDS	16		14		21	
90 PERCENT EXCEEDS	4.3		3.5		2.7	

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 mi^2.

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

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

GAGE.--Water-stage recorder. 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: June 23-27. Records good except for period of estimated record, which is poor. Small diversions by city of Jackson waterworks. Flow regulated by Carr Fork Lake (station 03277446) beginning January 1976. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality section.

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	114	142	453	146	1260	1510	794	1060	758	423	199	80
2	108	159	346	148	1150	1370	736	1920	852	510	324	274
3	106	171	268	158	1160	1240	687	2090	1270	430	251	221
4	107	162	202	153	1570	1200	646	1700	1130	355	246	111
5	112	153	383	113	2920	1170	590	1700	917	312	204	90
6	113	149	623	564	2160	1270	556	1630	777	309	144	87
7	115	144	517	5930	1620	1570	534	1350	695	329	124	69
8	107	131	418	3440	1460	5380	515	1120	636	285	124	56
9	109	117	340	1750	1130	6940	502	1030	610	246	408	50
10	121	121	475	1220	1060	4930	490	1680	648	216	269	48
11	135	125	1660	954	1120	4640	471	4720	1080	185	183	42
12	131	125	1130	920	981	5110	520	3650	2990	163	248	44
13	180	119	831	925	844	4550	623	3030	3030	146	214	87
14	322	122	607	899	750	3470	651	11400	1830	136	161	164
15	365	116	478	6010	3320	2680	570	17000	1140	128	136	184
16	276	108	404	16400	11100	2100	524	7710	850	122	112	145
17	232	111	386	7720	9120	1700	534	5190	695	196	98	191
18	187	116	356	3030	5100	1420	631	6880	604	185	87	263
19	170	119	323	2230	3460	1240	673	21100	547	206	103	215
20	188	125	292	2730	2560	1130	795	15300	491	179	96	166
21	281	117	250	2310	1980	1420	1850	5690	511	144	106	141
22	249	121	231	1710	1720	1870	2110	3820	871	123	220	129
23	259	122	217	1400	1460	1660	1830	2950	720	110	177	195
24	227	112	201	1130	1290	1550	5040	2260	600	106	113	292
25	197	112	189	887	1090	1340	3310	1630	800	111	90	283
26	185	112	181	788	977	1180	2360	1340	700	146	76	233
27	181	119	169	738	912	1110	1800	1210	750	190	68	239
28	165	535	165	746	1290	1120	1490	1200	523	280	59	281
29	157	999	160	1040	---	1010	1210	1220	440	157	55	268
30	151	662	155	1350	---	902	1060	949	431	112	51	195
31	144	---	148	1360	---	840	---	839	---	96	48	---
TOTAL	5494	5646	12558	68899	64564	68622	34102	134368	27896	6636	4794	4843
MEAN	177	188	405	2223	2306	2214	1137	4334	930	214	155	161
MAX	365	999	1660	16400	11100	6940	5040	21100	3030	510	408	292
MIN	106	108	148	113	750	840	471	839	431	96	48	42
CFSM	.16	.17	.37	2.02	2.09	2.01	1.03	3.94	.84	.19	.14	.15
IN.	.19	.19	.42	2.33	2.18	2.32	1.15	4.54	.94	.22	.16	.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1995, BY WATER YEAR (WY)

MEAN	554	941	1745	1999	2723	2696	2259	1896	975	466	422	321
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1977 - 1995	
ANNUAL TOTAL	817871		438422			
ANNUAL MEAN	2241		1201		1409	
HIGHEST ANNUAL MEAN					2570	1994
LOWEST ANNUAL MEAN					477	1988
HIGHEST DAILY MEAN	27300	Mar 28	21100	May 19	52200	May 8 1984
LOWEST DAILY MEAN	91	Sep 16	42	Sep 11	26	Aug 20 1988
ANNUAL SEVEN-DAY MINIMUM	105	Sep 11	57	Sep 6	30	Aug 16 1988
INSTANTANEOUS PEAK FLOW			22000	May 19	53500	Jan 30 1957
INSTANTANEOUS PEAK STAGE			26.20	May 19	43.10	Feb 4 1939
INSTANTANEOUS LOW FLOW			42	Sep 11	.00	Oct 16 1930
ANNUAL RUNOFF (CFSM)	2.04		1.09		1.28	
ANNUAL RUNOFF (INCHES)	27.63		14.81		17.39	
10 PERCENT EXCEEDS	6620		2810		3180	
50 PERCENT EXCEEDS	478		490		639	
90 PERCENT EXCEEDS	125		112		123	

KENTUCKY RIVER BASIN

03280700 CUTSHIN CREEK AT WOOTON, KY

LOCATION.--Lat 37°9'54", 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 mi^2.

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: Feb. 6-14. Records good except for period of estimated record, which is poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	8.1	12	5.6	75	79	36	68	31	23	4.4	1.4
2	2.6	6.8	10	6.2	71	72	32	106	59	11	15	1.6
3	2.4	4.8	9.6	5.5	84	72	29	88	40	8.9	5.1	1.4
4	2.4	4.2	16	4.7	210	69	28	80	29	8.2	3.7	1.4
5	1.9	4.2	31	3.2	147	69	25	73	29	7.6	3.2	1.3
6	2.0	5.1	26	158	110	91	24	62	25	10	3.0	1.1
7	2.1	5.1	18	160	100	109	23	53	40	8.9	12	1.1
8	2.1	5.3	14	66	83	453	22	45	26	6.6	7.4	1.1
9	2.6	5.7	12	43	70	302	21	86	21	8.2	4.9	1.2
10	3.5	6.4	28	32	60	244	21	105	19	8.0	4.2	1.3
11	3.2	7.2	60	28	54	258	18	112	35	6.2	3.2	3.8
12	2.9	7.7	30	38	46	247	35	92	120	5.6	2.8	6.1
13	6.4	6.5	23	31	40	180	27	549	97	4.6	2.5	6.3
14	5.8	6.0	14	57	37	134	23	1260	51	4.3	2.4	4.5
15	3.6	5.9	11	751	752	106	21	464	34	4.5	2.1	2.5
16	2.9	5.9	10	445	675	87	22	231	27	3.8	2.0	2.1
17	2.8	6.0	10	156	340	74	54	177	22	4.4	1.7	3.5
18	2.7	5.8	9.5	95	195	63	64	1040	19	5.4	1.9	3.8
19	3.8	5.4	8.0	82	137	57	54	1570	16	4.3	1.9	2.7
20	9.1	5.1	7.5	120	110	76	193	308	34	3.3	2.2	2.1
21	6.9	5.1	6.9	91	95	166	203	180	25	3.2	3.2	3.8
22	5.5	5.3	7.1	71	75	130	133	125	20	3.1	2.3	9.6
23	4.8	5.2	7.0	58	67	112	118	88	18	4.1	2.2	10
24	5.6	4.7	6.6	46	59	86	145	69	21	4.5	1.7	4.0
25	5.5	4.7	6.0	38	50	73	121	53	19	4.0	1.4	2.9
26	4.8	4.4	5.9	35	48	65	103	47	16	9.0	1.3	10
27	4.1	8.6	5.6	31	55	62	89	37	13	5.3	1.3	7.8
28	3.9	89	5.1	61	82	54	73	50	12	3.5	1.3	3.8
29	3.9	30	5.1	94	---	48	61	36	13	3.0	1.2	2.9
30	4.0	17	5.3	96	---	43	62	30	19	2.6	1.2	2.3
31	4.5	---	5.4	83	---	38	---	27	---	2.3	1.2	---
TOTAL	121.0	291.2	425.6	2991.2	3927	3719	1880	7311	950	191.4	103.9	107.4
MEAN	3.90	9.71	13.7	96.5	140	120	62.7	236	31.7	6.17	3.35	3.58
MAX	9.1	89	60	751	752	453	203	1570	120	23	15	10
MIN	1.9	4.2	5.1	3.2	37	38	18	27	12	2.3	1.2	1.1
CFSM	.06	.16	.22	1.57	2.29	1.96	1.02	3.85	.52	.10	.05	.06
IN.	.07	.18	.26	1.82	2.38	2.26	1.14	4.44	.58	.12	.06	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1995, BY WATER YEAR (WY)

MEAN	28.6	62.5	114	146	174	201	161	116	55.7	32.6	24.4	19.0
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1958 - 1995	
ANNUAL TOTAL	43209.4		22018.7			
ANNUAL MEAN	118		60.3		94.1	
HIGHEST ANNUAL MEAN					212	1974
LOWEST ANNUAL MEAN					27.6	1988
HIGHEST DAILY MEAN	2820	Feb 11	1570	May 19	4890	May 7 1984
LOWEST DAILY MEAN	1.9	Oct 5	1.1	Sep 6	.00	Sep 29 1959
ANNUAL SEVEN-DAY MINIMUM	2.2	Oct 2	1.2	Sep 4	.01	Sep 11 1964
INSTANTANEOUS PEAK FLOW			6550	May 18	14200	Mar 12 1963
INSTANTANEOUS PEAK STAGE			10.55	May 18	16.23	Mar 12 1963
INSTANTANEOUS LOW FLOW			1.1	Sep 6	.00	Sep 29 1959
ANNUAL RUNOFF (CFSM)	1.93		.98		1.54	
ANNUAL RUNOFF (INCHES)	26.22		13.36		20.87	
10 PERCENT EXCEEDS	285		120		205	
50 PERCENT EXCEEDS	22		16		33	
90 PERCENT EXCEEDS	4.2		2.4		2.7	

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 mi^2.

PERIOD OF RECORD.--October 1930 to March 1932, October 1939 to current year.

REVISED RECORDS.--WSP 1113: 1931, 1940. WSP 1385: 1931-32, 1948, drainage area. WSP 1505: 1946(M), 1951(M).

GAGE.--Water-stage recorder. 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 discharge Feb. 9. Records good except for period of estimated record, which is fair. Flow regulated by Buckhorn Lake beginning December 1960 (station 03280800). Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality section.

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	58	253	214	49	866	605	219	590	228	151	51	68
2	58	233	227	52	565	913	146	960	245	141	60	141
3	58	211	238	53	805	906	132	1350	240	135	51	67
4	58	198	243	53	771	883	125	1270	229	131	50	49
5	57	198	257	50	759	680	116	1220	244	129	50	48
6	53	222	180	251	1170	711	110	1130	262	136	50	47
7	57	266	142	1530	1400	772	108	639	258	128	50	46
8	58	253	178	1860	973	2570	104	570	252	107	51	45
9	60	219	176	1720	750	2850	104	522	252	77	51	45
10	63	207	234	646	575	3270	105	643	223	72	54	45
11	64	203	508	543	566	3500	103	1370	284	71	55	45
12	62	219	328	557	534	3820	160	2390	707	69	156	45
13	86	239	376	372	371	3600	249	1760	1840	60	67	52
14	104	243	388	363	284	3340	201	3730	1200	63	51	50
15	83	248	223	2250	1680	2680	176	4770	534	63	49	50
16	73	233	153	4150	2900	1250	163	4720	466	59	48	52
17	69	219	158	2960	2610	916	161	4660	424	62	46	86
18	67	215	157	3250	3390	838	198	5170	199	83	46	98
19	177	214	145	3230	3340	597	189	7450	149	82	58	66
20	274	203	110	3260	3550	566	388	4780	177	65	66	52
21	277	163	88	3060	3430	585	870	4790	467	63	57	50
22	277	126	84	1720	3230	867	661	4330	204	61	76	49
23	277	126	82	1380	2380	927	603	4120	177	56	51	57
24	277	76	79	918	1650	918	2340	4000	163	59	47	60
25	277	83	77	775	810	1100	849	4090	171	58	47	51
26	252	121	75	432	606	890	501	3950	236	61	47	50
27	209	127	73	281	545	815	1020	2290	240	58	47	57
28	199	264	69	336	477	545	1170	1320	228	51	48	56
29	172	227	54	400	---	488	1080	601	222	50	49	50
30	250	188	49	597	---	364	625	414	212	49	49	49
31	291	---	49	851	---	337	---	297	---	49	49	---
TOTAL	4397	5997	5414	37949	40987	43103	12976	79896	10733	2499	1727	1726
MEAN	142	200	175	1224	1464	1390	433	2577	358	80.6	55.7	57.5
MAX	291	266	508	4150	3550	3820	2340	7450	1840	151	156	141
MIN	53	76	49	49	284	337	103	297	149	49	46	45
CFSM	.26	.37	.33	2.28	2.73	2.59	.81	4.80	.67	.15	.10	.11
IN.	.30	.42	.38	2.63	2.84	2.99	.90	5.53	.74	.17	.12	.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1995, BY WATER YEAR (WY)

MEAN	328	584	979	1298	1485	1666	1182	926	445	216	178	181
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1961 - 1995	
ANNUAL TOTAL	469594		247404			
ANNUAL MEAN	1287		678		786	
HIGHEST ANNUAL MEAN					1492	1994
LOWEST ANNUAL MEAN					267	1988
HIGHEST DAILY MEAN	6640	Feb 23	7450	May 19	10300	Feb 27 1962
LOWEST DAILY MEAN	45	Sep 14	45	Sep 8	11	Sep 27 1981
ANNUAL SEVEN-DAY MINIMUM	47	Sep 8	45	Sep 6	12	Nov 9 1991
INSTANTANEOUS PEAK FLOW			8190	May 19	52700	Jan 30 1957
INSTANTANEOUS PEAK STAGE			24.15	May 19	43.33	Jan 30 1957
INSTANTANEOUS LOW FLOW			45	Sep 8	.10	Oct 12 1953
ANNUAL RUNOFF (CFSM)	2.40		1.26		1.46	
ANNUAL RUNOFF (INCHES)	32.53		17.14		19.88	
10 PERCENT EXCEEDS	4110		2360		2520	
50 PERCENT EXCEEDS	223		219		298	
90 PERCENT EXCEEDS	61		50		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 mi^2.

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: Oct. 1-13, Feb. 4-14, and Jul. 12-17. Records good except for periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	5.3	36	16	250	232	107	191	73	60	4.6	.76
2	4.6	5.6	25	16	218	212	95	594	83	46	4.6	1.5
3	4.2	5.8	19	17	193	202	85	460	108	34	4.7	1.6
4	4.0	10	21	18	185	199	80	348	72	31	5.1	1.2
5	3.8	8.3	62	12	175	192	76	278	55	26	4.1	.72
6	3.6	7.9	72	370	170	275	69	221	49	35	4.7	.56
7	3.4	7.5	57	1210	160	473	68	180	52	37	5.4	.63
8	3.2	6.0	41	358	155	3230	67	152	55	27	18	.57
9	3.1	5.3	34	203	150	1470	64	173	43	22	20	.46
10	5.9	5.1	98	141	135	873	63	637	42	19	17	.35
11	5.6	5.1	272	114	120	918	59	1220	312	17	19	.35
12	5.3	5.1	137	216	98	863	98	658	836	15	13	1.6
13	6.6	5.1	85	221	86	633	141	2540	531	13	11	7.4
14	7.8	5.2	60	225	76	451	114	5750	248	12	6.2	14
15	9.3	5.6	46	2730	2510	343	108	1780	150	9.2	4.0	16
16	7.3	5.1	38	2650	2850	276	104	843	102	8.2	3.1	11
17	4.9	5.4	37	767	1540	226	152	600	71	60	3.0	22
18	3.7	5.6	37	397	777	190	204	737	56	46	2.4	14
19	3.8	5.3	36	293	493	169	175	3720	47	30	2.3	19
20	13	5.1	33	529	353	167	337	1140	93	15	2.5	15
21	10	5.3	29	405	292	351	875	620	119	11	8.0	9.4
22	12	5.2	27	297	225	340	645	362	78	9.1	8.9	12
23	12	4.1	26	227	196	351	492	242	84	7.4	4.0	42
24	9.0	3.6	25	181	178	306	1070	180	134	7.3	2.1	34
25	7.6	3.4	24	140	150	248	616	142	108	9.5	1.9	17
26	6.7	3.4	22	133	140	212	425	123	94	16	1.9	19
27	5.7	11	20	110	135	198	319	95	56	65	1.7	29
28	5.3	192	18	167	216	179	252	258	41	18	1.4	33
29	4.5	119	18	395	---	152	199	171	34	9.9	1.1	17
30	4.2	55	18	375	---	131	181	111	59	6.2	.67	9.1
31	4.2	---	17	302	---	115	---	87	---	5.0	.65	---
TOTAL	189.3	521.4	1490	13235	12226	14177	7340	24613	3885	726.8	187.02	350.20
MEAN	6.11	17.4	48.1	427	437	457	245	794	129	23.4	6.03	11.7
MAX	13	192	272	2730	2850	3230	1070	5750	836	65	20	42
MIN	3.1	3.4	17	12	76	115	59	87	34	5.0	.65	.35
CFSM	.04	.11	.31	2.75	2.82	2.95	1.58	5.12	.84	.15	.04	.08
IN.	.05	.13	.36	3.18	2.93	3.40	1.76	5.91	.93	.17	.04	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1995, BY WATER YEAR (WY)

MEAN	93.0	231	393	456	523	592	432	341	168	84.0	51.3	40.7
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1973 - 1995	
ANNUAL TOTAL	158750.8		78940.72			
ANNUAL MEAN	435		216		283	
HIGHEST ANNUAL MEAN					513	1994
LOWEST ANNUAL MEAN					92.2	1988
HIGHEST DAILY MEAN	8620	Mar 28	5750	May 14	16200	May 7 1984
LOWEST DAILY MEAN	3.1	Oct 9	.35	Sep 10	.20	Oct 4 1983
ANNUAL SEVEN-DAY MINIMUM	3.6	Oct 3	.52	Sep 5	.52	Sep 5 1995
INSTANTANEOUS PEAK FLOW			10100	May 14	28500	Oct 17 1989
INSTANTANEOUS PEAK STAGE			11.81	May 14	21.14	Oct 17 1989
INSTANTANEOUS LOW FLOW			.35	Sep 10	.20	Oct 4 1983
ANNUAL RUNOFF (CFSM)	2.81		1.40		1.82	
ANNUAL RUNOFF (INCHES)	38.10		18.95		24.77	
10 PERCENT EXCEEDS	1080		481		600	
50 PERCENT EXCEEDS	64		55		95	
90 PERCENT EXCEEDS	5.6		4.0		7.0	

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 mi^2.

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

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

REMARKS.--Estimated daily discharges: Oct. 1 to Nov 26 and Feb. 4-14. Records good except for periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

EXTREMES OUTSIDE PERIOD OF RECORD.---Flood of June 28, 1947, Jan. 29, 1957, and Mar. 12, 1963, reached a stage of 40.6 ft, discharge, 38,000 ft^3/s, 37.3 ft, discharge, 29,800 ft^3/s, and 33.5 ft, discharge, 21,500 ft^3/s, respectively, present site.

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	5.0	6.4	38	22	277	263	98	205	141	94	6.0	5.3
2	4.7	7.0	28	24	229	250	92	536	149	60	5.7	5.3
3	4.6	7.8	23	23	196	235	83	447	162	42	8.0	5.5
4	4.4	12	28	21	190	226	78	347	112	33	9.7	5.0
5	3.8	9.5	111	18	180	224	74	289	85	27	7.5	4.4
6	3.7	8.8	131	252	175	344	68	230	75	43	6.0	4.1
7	3.7	8.1	85	1550	160	634	65	187	62	46	16	3.4
8	3.7	7.2	59	486	155	3240	62	154	53	30	115	3.5
9	3.6	6.2	49	269	140	1930	59	149	46	23	55	3.5
10	6.8	5.8	139	179	130	822	57	301	40	18	27	3.5
11	6.3	5.8	552	148	110	819	53	635	207	16	28	3.7
12	6.0	5.7	223	426	98	702	138	431	540	14	20	8.4
13	9.0	5.7	126	373	90	542	212	803	378	12	14	11
14	14	5.7	85	305	80	405	173	4160	202	11	10	14
15	13	6.0	63	1760	1710	320	147	2840	127	9.9	7.8	15
16	9.5	6.2	53	2690	2790	262	132	861	156	8.9	6.3	21
17	8.0	6.5	61	830	1540	221	185	560	103	30	5.1	28
18	7.4	6.8	63	444	730	192	270	626	72	26	7.0	22
19	7.0	6.2	60	345	472	169	232	2780	56	15	12	19
20	15	6.0	54	504	351	163	267	1050	79	11	11	14
21	14	6.0	48	423	298	266	931	499	80	8.4	13	11
22	16	6.0	44	333	237	255	780	311	78	7.5	5.9	21
23	15	5.2	41	260	210	256	488	220	58	7.1	4.6	42
24	13	4.6	37	205	189	226	1120	166	181	6.8	3.7	30
25	10	4.2	34	161	159	190	689	125	96	7.2	3.1	19
26	9.0	4.0	30	143	146	168	453	104	65	8.5	5.5	21
27	8.0	18	27	122	143	164	333	87	50	30	33	32
28	7.3	227	25	182	234	160	262	805	39	17	12	27
29	6.5	141	24	468	---	132	209	787	36	10	6.9	18
30	5.7	60	23	419	---	117	186	291	81	7.2	5.5	13
31	5.5	---	22	339	---	106	---	182	---	6.1	5.1	---
TOTAL	249.2	615.4	2386	13724	11419	14003	7996	21168	3609	685.6	475.4	433.6
MEAN	8.04	20.5	77.0	443	408	452	267	683	120	22.1	15.3	14.5
MAX	16	227	552	2690	2790	3240	1120	4160	540	94	115	42
MIN	3.6	4.0	22	18	80	106	53	87	36	6.1	3.1	3.4
CFSM	.05	.13	.47	2.72	2.50	2.77	1.64	4.19	.74	.14	.09	.09
IN.	.06	.14	.54	3.13	2.61	3.20	1.82	4.83	.82	.16	.11	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1995, BY WATER YEAR (WY)

MEAN	91.7	202	385	443	497	530	424	309	145	98.2	52.9	46.1
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1965 - 1995	
ANNUAL TOTAL	136320.2		76764.2			
ANNUAL MEAN	373		210		268	
HIGHEST ANNUAL MEAN					456	1994
LOWEST ANNUAL MEAN					107	1988
HIGHEST DAILY MEAN	8000	Mar 28	4160	May 14	13700	May 7 1984
LOWEST DAILY MEAN	3.6	Oct 9	3.1	Aug 25	.00	Oct 8 1980
ANNUAL SEVEN-DAY MINIMUM	3.9	Oct 3	3.7	Sep 5	.16	Oct 4 1980
INSTANTANEOUS PEAK FLOW			6930	May 14	19200	May 7 1984
INSTANTANEOUS PEAK STAGE			20.73	May 14	32.85	May 7 1984
INSTANTANEOUS LOW FLOW					.00	Oct 8 1980
ANNUAL RUNOFF (CFSM)	2.29		1.29		1.64	
ANNUAL RUNOFF (INCHES)	31.11		17.52		22.31	
10 PERCENT EXCEEDS	967		487		576	
50 PERCENT EXCEEDS	61		60		90	
90 PERCENT EXCEEDS	6.4		5.7		6.0	

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 mi^2.

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

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

GAGE.--Water-stage recorder. 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. 6-14. Records good except for period of estimated record, which is fair. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	27	33	300	117	980	930	466	716	512	236	46	66
2	22	31	210	117	882	899	435	1890	518	251	48	56
3	19	30	167	113	835	832	399	2310	537	221	53	33
4	17	30	151	112	902	792	375	1670	520	170	72	24
5	16	30	358	98	1020	761	345	1320	402	139	47	18
6	14	33	537	507	860	842	326	1030	330	145	36	15
7	14	33	489	4990	740	1440	309	817	286	142	35	11
8	13	33	363	3090	615	6330	298	682	252	162	42	8.4
9	16	34	279	1380	540	10400	290	689	267	142	195	7.2
10	22	36	464	881	480	4220	284	1190	223	110	224	5.6
11	23	37	1950	672	440	3520	266	2380	474	90	138	4.7
12	19	36	1400	688	420	3330	363	2330	1940	79	110	4.3
13	49	35	716	1040	410	2670	680	2580	1930	70	83	5.8
14	75	33	502	941	400	1970	675	13200	1080	63	72	6.3
15	80	33	384	4710	3190	1470	576	13800	684	61	60	7.5
16	87	35	317	11700	10400	1140	522	5360	498	55	49	24
17	69	35	314	5840	7730	934	535	2650	416	153	38	115
18	56	34	321	2310	3860	787	726	3380	343	180	31	165
19	49	34	310	1460	2320	685	777	15900	273	126	100	140
20	45	35	281	1770	1620	635	1040	8250	245	114	219	90
21	54	35	255	1880	1250	839	2410	2870	341	88	185	67
22	97	35	230	1410	1010	1050	3390	1630	354	67	127	63
23	92	33	215	1060	814	1000	2400	1060	280	54	81	64
24	72	30	198	847	718	1020	5460	785	247	55	57	76
25	63	28	184	679	627	853	3750	627	354	49	43	113
26	53	28	167	585	560	741	2330	525	330	43	35	105
27	46	38	154	523	531	690	1610	462	347	39	28	87
28	43	388	141	519	677	679	1190	634	252	39	23	76
29	39	973	131	966	---	611	918	1850	200	63	19	173
30	35	495	124	1360	---	547	779	1090	217	68	22	85
31	33	---	118	1170	---	500	---	644	---	54	33	---
TOTAL	1359	2753	11730	53535	44831	53117	33924	94321	14652	3328	2351	1715.8
MEAN	43.8	91.8	378	1727	1601	1713	1131	3043	488	107	75.8	57.2
MAX	97	973	1950	11700	10400	10400	5460	15900	1940	251	224	173
MIN	13	28	118	98	400	500	266	462	200	39	19	4.3
CFSM	.06	.13	.52	2.39	2.22	2.37	1.57	4.21	.68	.15	.11	.08
IN.	.07	.14	.60	2.76	2.31	2.74	1.75	4.86	.75	.17	.12	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 1995, BY WATER YEAR (WY)

MEAN	218	664	1376	1819	2148	2321	1700	1103	568	401	258	149
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1925 - 1995	
ANNUAL TOTAL	565380		317616.8			
ANNUAL MEAN	1549		870		1060	
HIGHEST ANNUAL MEAN					1808	1994
LOWEST ANNUAL MEAN					413	1988
HIGHEST DAILY MEAN	23300	Mar 28	15900	May 19	51300	Jan 30 1957
LOWEST DAILY MEAN	13	Oct 8	4.3	Sep 12	.00	Oct 11 1953
ANNUAL SEVEN-DAY MINIMUM	16	Oct 3	5.9	Sep 9	.00	Oct 11 1953
INSTANTANEOUS PEAK FLOW			17500	May 19	66100	Jan 30 1957
INSTANTANEOUS PEAK STAGE			27.07	May 19	43.40	Jan 30 1957
INSTANTANEOUS LOW FLOW			4.3	Sep 12	.00	Oct 11 1953
ANNUAL RUNOFF (CFSM)	2.15		1.21		1.47	
ANNUAL RUNOFF (INCHES)	29.13		16.36		19.94	
10 PERCENT EXCEEDS	4520		1960		2420	
50 PERCENT EXCEEDS	317		284		350	
90 PERCENT EXCEEDS	35		31		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 mi^2.

PERIOD OF RECORD.--October 1925 to September 1931, December 1936 to February 1937, July 1938 to current year. Gage-height records collected in this vicinity since 1902 are published in reports of National Weather Service.

REVISED RECORDS.--WSP 1385: 1926-27, 1928(M), 1929, 1931(M), 1937, 1939(M), drainage area.

GAGE.--Water-stage recorder. 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: Jan. 22-25 and Feb. 9-13. Records good above 1,000 ft^3/s, fair between 1,000 ft^3/s and 150 ft^3/s, and poor below 150 ft^3/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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	249	497	1310	371	3920	3720	1790	2960	1740	876	213	185
2	223	454	983	368	3440	3960	1540	5550	1690	821	206	311
3	203	440	867	355	3300	3710	1400	7410	1920	844	320	326
4	195	438	721	347	3580	3480	1300	6130	2240	741	362	332
5	184	422	1020	321	4560	3260	1220	5140	1910	630	312	223
6	182	421	1450	678	5470	4150	1120	4710	1600	615	302	143
7	175	470	1510	11600	4710	5100	1060	3750	1420	633	251	119
8	175	505	1250	16000	4000	13700	1000	3060	1270	599	221	117
9	175	441	1050	11800	3450	26700	978	2720	1180	552	299	99
10	194	410	1230	6460	2950	18200	990	3880	1130	468	637	87
11	219	394	4080	4340	2700	15000	918	6780	1520	406	511	77
12	228	392	4420	2560	2600	15400	1080	11000	5630	369	517	77
13	349	426	2620	2800	2300	14200	1780	9630	8220	335	441	77
14	506	450	1980	2660	1880	11400	1900	29700	5890	293	359	80
15	581	466	1510	10400	6330	8850	1670	35500	3420	284	285	136
16	606	470	1170	30000	25600	6070	1480	28900	2270	262	247	261
17	485	439	1070	27300	27100	4650	1440	19600	1890	269	202	431
18	407	404	975	13600	19000	3840	1760	21500	1410	512	166	469
19	381	404	932	8590	12500	3190	2030	39500	1090	438	181	476
20	552	403	836	8640	9800	2820	2420	35500	957	403	368	390
21	565	380	729	9310	8140	3120	5430	24000	1670	367	379	313
22	659	326	661	6900	7020	4040	8460	13100	1240	311	324	270
23	680	304	595	5000	5730	4410	6540	9840	1430	267	293	251
24	630	278	568	3800	4420	4180	17400	8250	1150	249	301	252
25	597	228	531	3000	3350	3910	13000	7240	1020	236	228	386
26	552	267	509	2420	2620	3420	7690	6300	1430	223	167	434
27	486	341	480	1930	2410	3060	5820	4720	1400	224	138	387
28	448	962	439	1950	2630	2830	4940	3490	1110	254	123	342
29	420	2240	415	2790	---	2590	4100	4250	942	326	109	340
30	395	1930	381	3860	---	2250	3240	3240	854	309	104	344
31	513	---	371	4130	---	2010	---	2220	---	240	99	---
TOTAL	12214	16002	36663	204280	185510	207220	105496	369570	60643	13356	8665	7735
MEAN	394	533	1183	6590	6625	6685	3517	11920	2021	431	280	258
MAX	680	2240	4420	30000	27100	26700	17400	39500	8220	876	637	476
MIN	175	228	371	321	1880	2010	918	2220	854	223	99	77
CFSM	.15	.20	.45	2.48	2.49	2.52	1.32	4.49	.76	.16	.11	.10
IN.	.17	.22	.51	2.86	2.60	2.90	1.48	5.17	.85	.19	.12	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1995, BY WATER YEAR (WY)

MEAN	1509	2827	5306	5789	7565	7506	5949	4928	2337	1130	993	816
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1977 - 1995	
ANNUAL TOTAL	2194014		1227354			
ANNUAL MEAN	6011		3363		3870	
HIGHEST ANNUAL MEAN					6973	1994
LOWEST ANNUAL MEAN					1461	1988
HIGHEST DAILY MEAN	52400	Mar 29	39500	May 19	85900	May 8 1984
LOWEST DAILY MEAN	175	Oct 7	77	Sep 11	45	Jul 10 1988
ANNUAL SEVEN-DAY MINIMUM	183	Oct 4	88	Sep 8	53	Jul 4 1988
INSTANTANEOUS PEAK FLOW			42300	May 19	120000	Feb 4 1939
INSTANTANEOUS PEAK STAGE			19.99	May 19	35.60	Feb 4 1939
INSTANTANEOUS LOW FLOW			77	Sep 11	4.0	Oct 20 1930
ANNUAL RUNOFF (CFSM)	2.26		1.27		1.46	
ANNUAL RUNOFF (INCHES)	30.72		17.18		19.78	
10 PERCENT EXCEEDS	19500		8610		9800	
50 PERCENT EXCEEDS	1190		1020		1630	
90 PERCENT EXCEEDS	326		226		284	

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 mi^2.

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: Jan. 24-27, Feb. 6-18, 21, 22, 24, 25, Mar. 1-7, 9-19, 21, 22, and Mar. 24 to Apr. 13. Records good except for periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	.45	7.2	31	12	79	86	43	168	77	10	.57	10
2	.69	6.8	23	13	86	83	41	589	120	8.9	.55	9.9
3	.68	6.6	19	12	99	84	39	317	102	8.2	.46	4.3
4	.63	6.8	23	10	137	76	37	210	86	6.6	.40	1.9
5	.62	6.8	153	7.3	129	87	34	163	58	5.9	.35	1.1
6	.65	7.6	104	467	103	122	33	115	46	11	.94	.91
7	.69	8.9	65	873	90	125	30	90	38	16	48	.83
8	.65	9.4	46	278	83	235	29	76	30	11	48	.76
9	.66	9.5	36	165	76	148	34	109	36	7.0	184	.62
10	.72	9.9	242	110	73	160	33	203	26	5.1	27	.56
11	1.4	11	395	90	66	260	29	186	44	3.8	20	.51
12	1.9	10	144	108	62	305	85	128	258	3.1	39	.39
13	22	9.7	86	91	55	253	80	578	136	2.6	13	.39
14	35	9.1	62	151	50	187	74	1180	73	2.0	8.6	.44
15	19	8.7	45	1190	489	143	64	752	49	1.5	5.6	.44
16	12	8.1	37	1490	400	114	58	354	38	1.3	4.2	2.3
17	9.1	7.7	57	390	360	94	114	453	29	1.2	3.0	22
18	7.1	7.6	51	231	298	78	124	1240	24	1.2	2.3	13
19	6.8	7.6	43	188	209	69	91	2390	20	2.5	6.6	6.8
20	6.8	7.3	37	320	157	67	231	450	20	2.8	4.8	3.8
21	6.8	7.1	33	222	135	143	444	249	26	2.1	3.0	2.8
22	6.8	6.8	29	161	99	132	306	155	22	1.6	4.5	4.2
23	8.8	6.7	27	122	86	134	459	99	20	1.5	3.1	7.1
24	9.4	6.3	24	94	74	114	1230	73	16	1.5	2.0	4.1
25	8.4	5.8	21	80	62	93	432	55	14	1.5	1.6	2.8
26	7.5	5.5	19	72	58	82	262	45	25	1.5	1.5	2.5
27	6.6	9.6	16	65	56	77	180	39	26	1.3	1.1	2.7
28	5.9	286	15	74	106	71	133	92	18	1.0	.91	2.8
29	5.4	92	14	90	---	60	97	67	13	.85	.75	2.5
30	4.9	45	14	81	---	45	90	42	10	.80	.69	1.7
31	4.8	---	14	78	---	47	---	33	---	.65	.76	---
TOTAL	202.84	637.1	1925	7335.3	3777	3774	4936	10700	1500	126.00	437.28	114.15
MEAN	6.54	21.2	62.1	237	135	122	165	345	50.0	4.06	14.1	3.80
MAX	35	286	395	1490	489	305	1230	2390	258	16	184	22
MIN	.45	5.5	14	7.3	50	45	29	33	10	.65	.35	.39
CFSM	.08	.27	.80	3.06	1.75	1.57	2.13	4.47	.65	.05	.18	.05
IN.	.10	.31	.93	3.53	1.82	1.82	2.38	5.15	.72	.06	.21	.05

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

MEAN	26.2	77.2	141	260	268	326	205	172	39.4	10.1	23.7	13.4
MAX	63.0	151	193	403	484	540	304	345	50.0	17.5	29.3	31.0
(WY)	1994	1994	1994	1994	1994	1994	1994	1995	1995	1994	1994	1993
MIN	6.54	21.2	62.1	139	135	122	147	26.1	19.1	4.06	14.1	3.80
(WY)	1995	1995	1995	1993	1995	1995	1993	1993	1994	1995	1995	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1993 - 1995	
ANNUAL TOTAL	61307.16		35464.67			
ANNUAL MEAN	168		97.2		130	
HIGHEST ANNUAL MEAN					195	1994
LOWEST ANNUAL MEAN					96.9	1993
HIGHEST DAILY MEAN	2890	Feb 23	2390	May 19	2890	Feb 23 1994
LOWEST DAILY MEAN	.45	Oct 1	.35	Aug 5	.35	Aug 5 1995
ANNUAL SEVEN-DAY MINIMUM	.61	Sep 30	.48	Sep 9	.48	Sep 9 1995
INSTANTANEOUS PEAK FLOW			7660	May 19	7660	May 19 1995
INSTANTANEOUS PEAK STAGE			14.33	May 19	14.33	May 19 1995
INSTANTANEOUS LOW FLOW			.33	Aug 5	.33	Aug 5 1995
ANNUAL RUNOFF (CFSM)	2.17		1.26		1.68	
ANNUAL RUNOFF (INCHES)	29.50		17.07		22.77	
10 PERCENT EXCEEDS	445		233		320	
50 PERCENT EXCEEDS	29		31		39	
90 PERCENT EXCEEDS	4.1		1.2		2.9	

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 mi^2.

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

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

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

REMARKS.--Estimated daily discharges: Dec. 28 to Jan. 4, Feb. 4-14. Records fair except for discharges below 10 ft^3/s and periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	2.0	1.3	11	3.8	131	164	30	88	21	12	.64	2.4
2	4.0	.85	7.6	3.5	119	119	27	301	23	8.0	3.2	2.0
3	3.2	.94	6.1	3.2	100	94	25	220	26	4.4	1.6	.67
4	.84	2.7	8.8	3.2	84	79	25	157	20	3.5	.83	.60
5	.57	3.5	107	2.7	74	79	21	150	16	3.6	.71	.56
6	.58	3.4	82	178	64	252	20	108	13	7.0	1.9	.54
7	.66	4.2	42	632	57	308	19	84	12	8.6	1.7	.50
8	1.2	3.7	25	220	50	730	19	67	10	4.3	5.3	.50
9	1.3	2.8	18	120	45	559	22	72	9.0	2.3	26	.49
10	.49	1.3	161	78	40	358	21	150	32	2.1	3.0	.49
11	.49	1.5	319	60	36	349	18	185	63	1.8	24	.51
12	.48	1.5	108	55	33	376	43	117	465	1.5	39	.50
13	14	1.3	56	42	30	279	74	133	175	1.4	6.5	.48
14	34	1.2	34	55	27	206	57	836	80	1.3	3.1	.44
15	16	1.1	23	651	197	159	49	619	46	1.4	1.8	.50
16	7.4	1.0	20	999	612	127	45	285	30	1.0	1.2	.58
17	4.3	1.1	31	344	501	103	42	494	21	.93	.97	5.7
18	3.3	1.1	24	195	277	83	45	729	15	.88	.96	1.7
19	4.9	1.1	19	177	181	71	38	1790	12	.79	1.9	.65
20	6.8	1.0	16	395	131	66	61	547	11	.83	1.3	.46
21	4.3	1.0	13	253	101	104	198	246	10	1.2	.75	.40
22	1.7	1.1	12	170	73	88	219	163	8.5	1.1	.66	.38
23	2.3	1.1	11	129	63	83	255	114	7.2	.89	.63	.33
24	1.3	.91	9.5	97	55	73	1020	81	6.5	3.9	.60	.31
25	1.1	.82	8.5	72	41	62	393	59	6.0	4.0	.57	.29
26	.78	.97	7.3	63	36	54	231	54	6.7	32	.56	.27
27	.70	2.9	6.5	50	33	52	156	41	4.9	6.3	.57	.27
28	.82	152	5.8	142	179	48	119	71	4.5	2.6	.58	.27
29	.74	57	5.2	289	---	41	84	50	4.3	1.3	.58	.29
30	.67	20	4.7	206	---	36	73	33	9.4	.92	.58	.29
31	1.4	---	4.3	152	---	32	---	24	---	.70	.56	---
TOTAL	122.32	274.39	1206.3	5840.4	3370	5234	3449	8068	1168.0	122.54	132.25	23.37
MEAN	3.95	9.15	38.9	188	120	169	115	260	38.9	3.95	4.27	.78
MAX	34	152	319	999	612	730	1020	1790	465	32	39	5.7
MIN	.48	.82	4.3	2.7	27	32	18	24	4.3	.70	.56	.27
CFSM	.06	.14	.59	2.86	1.83	2.57	1.75	3.96	.59	.06	.06	.01
IN.	.07	.16	.68	3.30	1.91	2.96	1.95	4.56	.66	.07	.07	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1995, BY WATER YEAR (WY)

MEAN	17.3	52.5	118	131	182	195	157	96.4	36.3	30.1	25.8	14.9
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1954 - 1995	
ANNUAL TOTAL	46787.71		29010.57			
ANNUAL MEAN	128		79.5		87.9	
HIGHEST ANNUAL MEAN					153	1994
LOWEST ANNUAL MEAN					39.6	1969
HIGHEST DAILY MEAN	1680	Mar 10	1790	May 19	6170	Dec 9 1978
LOWEST DAILY MEAN	.48	Oct 12	.27	Sep 26	.00	Sep 14 1954
ANNUAL SEVEN-DAY MINIMUM	.74	Oct 6	.28	Sep 24	.00	Sep 12 1955
INSTANTANEOUS PEAK FLOW			2210	May 19	9080	Feb 27 1962
INSTANTANEOUS PEAK STAGE			8.56	May 19	22.12	Feb 27 1962
ANNUAL RUNOFF (CFSM)	1.95		1.21		1.34	
ANNUAL RUNOFF (INCHES)	26.45		16.40		18.15	
10 PERCENT EXCEEDS	328		211		200	
50 PERCENT EXCEEDS	16		16		30	
90 PERCENT EXCEEDS	1.1		.60		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 mi^2.

PERIOD OF RECORD.--October 1930 to March 1932, April 1938 to current year. Monthly discharge only for October 1930, published in WSP 1305.

REVISED RECORDS.--WSP 1275: 1931-32. WSP 1385: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 600.47 ft above 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. 30 to Jan. 5, Feb. 2-14. 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. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	16	23	157	55	587	1040	194	507	209	233	26	15
2	16	24	106	51	470	715	185	1330	237	234	30	56
3	15	29	80	48	390	554	173	1340	235	119	35	60
4	15	33	88	45	350	481	162	894	235	81	24	41
5	14	30	250	42	305	482	154	955	182	62	23	29
6	13	26	448	529	275	1420	143	817	150	208	34	22
7	12	25	307	3090	250	1650	135	617	167	299	72	19
8	12	25	208	1850	225	2370	132	507	136	153	58	17
9	14	25	152	769	205	3240	134	911	110	94	44	15
10	13	25	562	506	188	1940	151	1260	96	68	157	14
11	13	23	1910	406	175	1660	139	1330	226	54	82	14
12	14	24	866	399	160	1650	473	1030	1200	46	84	14
13	67	26	423	360	150	1360	700	878	1520	40	94	14
14	208	26	289	460	140	993	460	2860	612	37	79	13
15	158	25	219	2490	713	775	361	5160	372	33	47	20
16	90	25	187	4570	3550	626	307	3520	269	31	35	23
17	61	25	261	3920	4060	526	295	3040	209	72	29	44
18	44	24	267	1230	1810	452	311	6390	164	53	31	107
19	35	24	221	885	1090	391	291	8770	134	42	186	69
20	45	24	182	1400	793	358	304	9010	114	35	197	41
21	69	24	154	1340	621	453	781	3950	105	30	139	30
22	62	23	135	855	495	455	859	1200	99	27	65	25
23	48	22	121	618	418	392	889	807	86	25	40	26
24	40	21	110	491	377	360	3480	580	77	26	30	23
25	34	21	99	391	320	320	3150	451	102	36	25	21
26	29	22	89	332	284	289	1220	367	93	54	21	20
27	27	43	80	293	270	272	814	321	71	64	19	19
28	26	698	74	733	814	263	640	377	63	76	17	19
29	25	704	69	1600	---	244	520	488	56	50	16	18
30	24	276	64	1100	---	224	439	323	57	38	15	17
31	23	---	59	751	---	207	---	250	---	30	15	---
TOTAL	1282	2365	8237	31609	19485	26162	17996	60240	7386	2450	1769	865
MEAN	41.4	78.8	266	1020	696	844	600	1943	246	79.0	57.1	28.8
MAX	208	704	1910	4570	4060	3240	3480	9010	1520	299	197	107
MIN	12	21	59	42	140	207	132	250	56	25	15	1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1995, BY WATER YEAR (WY)

MEAN	87.6	277	625	780	1026	1068	834	520	263	261	185	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1931 - 1995	
ANNUAL TOTAL	273406		179846			
ANNUAL MEAN	749		493		495	
HIGHEST ANNUAL MEAN					884	1989
LOWEST ANNUAL MEAN					158	1941
HIGHEST DAILY MEAN	11300	Mar 10	9010	May 20	26100	Dec 9 1978
LOWEST DAILY MEAN	12	Oct 7	12	Oct 7	1.2	Aug 10 1944
ANNUAL SEVEN-DAY MINIMUM	13	Oct 5	13	Oct 5	2.0	Oct 2 1930
INSTANTANEOUS PEAK FLOW			10200	May 20	28800	Dec 9 1978
INSTANTANEOUS PEAK STAGE			18.27	May 20	26.75	Dec 9 1978
INSTANTANEOUS LOW FLOW			12	Oct 9	1.2	Aug 10 1944
10 PERCENT EXCEEDS	2160		1220		1180	
50 PERCENT EXCEEDS	135		152		180	
90 PERCENT EXCEEDS	23		22		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 mi^2.

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

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

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

REMARKS.--No estimated daily discharges: Records good above 1,000 ft^3/s and fair below. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section. 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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	390	569	2350	712	5880	5590	2550	4850	2750	2080	424	160
2	367	606	1780	751	5330	5870	2320	10600	2590	1690	379	231
3	342	564	1440	737	4720	5500	2120	11700	2650	1420	375	387
4	320	543	1860	685	4730	5030	1990	10200	2800	1300	453	467
5	302	529	3750	624	5070	4940	1900	8550	2720	1140	508	489
6	300	498	2870	2700	6190	8420	1810	7590	2320	1320	548	380
7	298	501	2720	15700	6110	10100	1710	6490	2090	1560	524	265
8	292	538	2270	20000	5400	17700	1650	5040	1910	1290	611	201
9	325	574	1910	12800	4860	30600	1650	6810	1780	1050	765	160
10	364	548	5150	7610	3860	30500	1630	9500	1640	913	1300	139
11	341	509	9990	5030	3630	21800	1600	8460	1610	787	1240	131
12	341	473	8160	4560	3300	19600	1840	12100	4530	689	1060	136
13	1180	477	5170	4160	2930	18500	3020	15600	10100	607	981	151
14	1910	499	3390	4890	2670	15800	3170	35100	8880	543	861	158
15	1470	513	2660	18000	6080	12500	2820	44300	5770	593	718	147
16	1190	537	2160	34000	28700	9570	2540	44000	3520	943	562	188
17	987	556	2330	40900	38600	7150	2400	40200	2660	547	452	421
18	787	512	2150	29200	32400	5700	3380	42700	2200	609	369	642
19	630	479	1930	13900	19200	4750	3290	46800	1830	683	624	805
20	597	473	1730	13100	13600	4040	3240	49600	1590	665	787	781
21	698	461	1540	13100	11100	4130	6790	47200	1740	600	735	650
22	774	428	1410	11000	9260	4690	10700	29100	1930	539	693	499
23	869	363	1290	7870	8080	5400	10600	13700	1730	455	568	392
24	859	327	1170	6240	6540	5420	22700	10800	1790	435	501	277
25	807	312	1090	4770	5150	5020	24900	9060	1930	425	457	277
26	750	277	1000	3860	3960	4580	14700	7940	1870	509	354	423
27	691	522	932	3170	3400	4020	9420	6950	1920	525	257	497
28	609	5160	873	5690	4300	3730	7640	5360	1770	548	223	487
29	546	4130	827	7460	---	3420	6410	4840	1530	520	204	416
30	508	3270	777	6640	---	3110	5210	5020	1420	482	188	422
31	501	---	730	6320	---	2780	---	3520	---	476	168	---
TOTAL	20345	25748	77409	306179	255050	289960	165700	563680	83570	25943	17889	10779
MEAN	656	858	2497	9877	9109	9354	5523	18180	2786	837	577	359
MAX	1910	5160	9990	40900	38600	30600	24900	49600	10100	2080	1300	805
MIN	292	277	730	624	2670	2780	1600	3520	1420	425	168	131

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1995, BY WATER YEAR (WY)

MEAN	1605	3437	7371	8748	10340	12130	9505	6616	3051	1686	1541	1241
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1961 - 1995	
ANNUAL TOTAL	3097044		1842252			
ANNUAL MEAN	8485		5047		5584	
HIGHEST ANNUAL MEAN					9815	1994
LOWEST ANNUAL MEAN					2228	1988
HIGHEST DAILY MEAN	61000	Mar 11	49600	May 20	99100	Dec 10 1978
LOWEST DAILY MEAN	202	Sep 16	131	Sep 11	116	Oct 20 1980
ANNUAL SEVEN-DAY MINIMUM	241	Sep 10	146	Sep 9	122	Oct 16 1980
INSTANTANEOUS PEAK FLOW			50000	May 20	101000	Dec 10 1978
INSTANTANEOUS PEAK STAGE			22.26	May 20	40.15	Dec 10 1978
10 PERCENT EXCEEDS	28900		12600		14100	
50 PERCENT EXCEEDS	1890		1810		2390	
90 PERCENT EXCEEDS	462		373		343	

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 mi^2.

PERIOD OF RECORD.--May to August 1905 (gage heights only), October 1942 to current year. Published as "Dicks River," 1905.

REVISED RECORDS.--WSP 1555: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 750.10 ft above 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. Auxiliary nonrecording gage at site 2 mi downstream from base gage read during periods of possible backwater.

REMARKS.--Estimated daily discharges: Oct. 23 to Nov. 27, Jan. 2-5, Feb. 8-15, May 2, Aug. 3. Records good except for periods of estimated record, which are fair. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality section.

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	11	10.0	125	66	379	249	148	256	221	52	11	4.5
2	10	9.8	87	62	335	212	135	1900	703	54	10	4.4
3	6.4	9.6	69	59	345	185	122	1020	698	47	70	4.6
4	4.9	10	100	57	331	176	109	584	507	43	46	4.7
5	4.0	11	1510	55	292	182	99	434	312	38	28	4.7
6	4.3	13	543	761	223	769	90	338	231	49	21	4.4
7	2.8	13	296	4270	206	965	86	270	186	41	125	4.4
8	1.8	12	203	1370	190	6350	79	213	153	34	743	4.2
9	1.4	11	153	704	175	2860	78	1280	176	42	302	4.2
10	1.3	11	923	491	165	1660	77	2800	162	33	151	4.2
11	1.1	12	2750	389	160	1510	79	1210	130	25	89	4.0
12	1.0	11	821	400	150	1160	81	709	978	20	66	4.0
13	1.5	10.5	454	413	148	807	114	1540	469	18	51	3.7
14	148	10.5	310	363	172	590	126	6990	265	15	33	5.1
15	148	10	234	3810	2680	462	93	2900	180	12	24	5.8
16	81	12	191	3420	4940	381	79	1130	135	11	18	7.1
17	56	11	208	1420	2540	302	418	2550	105	11	14	11
18	37	10	231	834	1210	258	879	7320	84	11	12	43
19	28	9.8	194	599	807	224	549	16300	73	17	25	35
20	23	9.6	166	684	609	206	479	2580	68	35	17	34
21	18	9.2	145	577	498	301	2730	992	63	23	14	28
22	15	9.2	133	429	387	318	1230	639	58	16	12	20
23	27	9.6	127	349	326	274	817	450	60	17	15	15
24	25	11	118	291	280	317	3420	338	64	19	16	11
25	21	10.5	106	240	235	237	1290	314	85	21	12	9.9
26	17	10	95	215	212	196	713	374	239	18	9.4	6.6
27	15	9.6	86	193	193	188	484	276	136	18	5.8	5.6
28	13	862	80	361	205	256	369	348	99	17	5.3	5.1
29	12	700	76	972	---	220	285	417	94	17	5.2	4.4
30	11	204	72	571	---	183	236	262	69	18	4.8	4.1
31	10.5	---	68	441	---	165	---	191	---	13	4.7	---
TOTAL	757.0	2051.9	10674	24866	18393	22163	15494	56925	6803	805	1960.2	306.7
MEAN	24.4	68.4	344	802	657	715	516	1836	227	26.0	63.2	10.2
MAX	148	862	2750	4270	4940	6350	3420	16300	978	54	743	43
MIN	1.0	9.2	68	55	148	165	77	191	58	11	4.7	3.7
CFSM	.08	.22	1.08	2.52	2.07	2.25	1.62	5.77	.71	.08	.20	.03
IN.	.09	.24	1.25	2.91	2.15	2.59	1.81	6.66	.80	.09	.23	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1995, BY WATER YEAR (WY)

MEAN	99.5	308	684	788	1004	989	681	464	238	151	94.5	160
MAX	1323	1471	3656	3140	4129	2625	2736	2618	933	926	527	3430
(WY)	1980	1987	1979	1950	1989	1994	1972	1983	1981	1958	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1943 - 1995	
ANNUAL TOTAL	234130.8		161198.8			
ANNUAL MEAN	641		442		469	
HIGHEST ANNUAL MEAN					1184	1979
LOWEST ANNUAL MEAN					119	1954
HIGHEST DAILY MEAN	17800	Mar 10	16300	May 19	27100	Dec 8 1978
LOWEST DAILY MEAN	1.0	Oct 12	1.0	Oct 12	.00	Jul 21 1944
ANNUAL SEVEN-DAY MINIMUM	1.6	Oct 7	1.6	Oct 7	.00	Jul 29 1944
INSTANTANEOUS PEAK FLOW			25400	May 19	44400	Dec 9 1978
INSTANTANEOUS PEAK STAGE			14.39	May 19	21.81	Dec 9 1978
INSTANTANEOUS LOW FLOW			1.3	Oct 12	1.3	Oct 12 1994
ANNUAL RUNOFF (CFSM)	2.02		1.39		1.48	
ANNUAL RUNOFF (INCHES)	27.39		18.86		20.04	
10 PERCENT EXCEEDS	1500		968		1070	
50 PERCENT EXCEEDS	105		114		121	
90 PERCENT EXCEEDS	8.9		6.9		2.8	

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 mi^2.

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: Nov. 9-22 and Feb. 1-14. Records good except for periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	1.9	4.9	13	11	33	22	12	157	71	76	5.5	15
2	1.5	4.5	12	13	30	20	13	248	172	26	9.0	6.3
3	1.6	4.3	10	11	27	19	14	94	85	19	5.8	3.6
4	2.8	3.8	131	11	24	19	12	59	52	15	5.4	3.9
5	2.9	3.7	101	10	21.5	31	10	45	38	17	6.2	3.6
6	2.6	5.3	37	311	19.5	73	10	36	31	18	21	3.4
7	2.8	5.0	25	225	18.0	184	9.6	30	24	14	153	3.6
8	3.1	4.6	19	109	16.5	957	8.8	26	20	11	92	3.4
9	10	6.0	19	69	15.5	242	8.1	249	79	9.3	34	3.1
10	7.2	6.8	327	49	14.0	172	8.7	128	30	8.4	20	3.0
11	4.2	5.0	179	42	13.5	137	7.7	74	29	7.7	16	3.3
12	2.4	4.7	78	37	12.5	92	14	51	70	6.0	12	3.2
13	22	4.5	47	32	12.0	63	9.1	616	39	5.5	9.4	22
14	10	6.2	33	70	11.5	49	6.2	593	27	5.5	7.8	8.9
15	6.3	6.0	25	253	421	40	5.6	314	22	5.4	5.6	4.5
16	6.2	5.9	26	209	506	34	5.4	140	18	8.0	4.9	10
17	6.9	5.8	30	118	223	30	13	289	16	10	5.7	20
18	5.3	4.0	25	77	134	27	12	936	17	6.2	5.3	9.3
19	7.8	3.5	21	62	92	24	22	394	15	4.9	4.7	6.6
20	10	3.2	18	58	67	27	53	157	14	4.2	4.4	5.3
21	6.9	3.1	16	46	52	32	188	98	13	3.3	3.7	5.1
22	12	3.0	17	38	41	24	51	63	11	3.8	3.8	4.6
23	9.1	5.3	17	34	36	28	131	43	10	12	4.4	4.0
24	6.7	3.9	16	28	31	22	155	35	8.3	17	3.8	3.8
25	5.6	4.1	14	24	26	19	75	35	239	8.4	2.9	3.7
26	5.2	4.3	13	22	24	18	50	39	114	8.0	2.8	4.2
27	4.5	28	13	21	23	19	39	28	36	16	2.4	4.1
28	4.6	122	11	107	26	18	30	94	26	17	2.5	4.1
29	4.4	23	11	96	---	16	24	46	50	8.2	3.0	3.8
30	4.1	16	10	63	---	14	23	31	22	6.3	3.0	2.2
31	4.5	---	11	47	---	12	---	25	---	6.2	2.3	---
TOTAL	185.1	310.4	1325	2303	1970.5	2484	1020.2	5173	1398.3	383.3	462.3	181.6
MEAN	5.97	10.3	42.7	74.3	70.4	80.1	34.0	167	46.6	12.4	14.9	6.05
MAX	22	122	327	311	506	957	188	936	239	76	153	22
MIN	1.5	3.0	10	10	11	12	5.4	25	8.3	3.3	2.3	2.2
CFSM	.23	.39	1.62	2.81	2.67	3.04	1.29	6.32	1.77	.47	.56	.23
IN.	.26	.44	1.87	3.25	2.78	3.50	1.44	7.29	1.97	.54	.65	.26

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

MEAN	9.56	21.2	43.4	85.2	100	137	55.1	75.8	29.6	13.9	15.3	5.98
MAX	17.3	35.7	60.1	127	149	238	93.7	167	46.6	17.4	23.8	7.16
(WY)	1994	1994	1994	1994	1994	1994	1994	1995	1995	1994	1994	1993
MIN	5.40	10.3	27.3	54.6	70.4	80.1	34.0	10.5	15.9	11.8	7.18	4.73
(WY)	1993	1995	1993	1993	1995	1995	1995	1993	1994	1993	1993	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1993 - 1995	
ANNUAL TOTAL	23562.6		17196.7			
ANNUAL MEAN	64.6		47.1		49.1	
HIGHEST ANNUAL MEAN					69.1	1994
LOWEST ANNUAL MEAN					31.2	1993
HIGHEST DAILY MEAN	2570	Mar 9	957	Mar 8	2570	Mar 9 1994
LOWEST DAILY MEAN	1.5	Oct 2	1.5	Oct 2	1.5	Oct 2 1994
ANNUAL SEVEN-DAY MINIMUM	2.3	Oct 1	2.3	Oct 1	2.1	Jul 5 1993
INSTANTANEOUS PEAK FLOW			2730	May 18	4120	Mar 9 1994
INSTANTANEOUS PEAK STAGE			7.24	May 18	7.24	May 18 1995
INSTANTANEOUS LOW FLOW			1.2	Oct 2	1.2	Oct 2 1994
ANNUAL RUNOFF (CFSM)	2.45		1.78		1.86	
ANNUAL RUNOFF (INCHES)	33.20		24.23		25.29	
10 PERCENT EXCEEDS	144		116		107	
50 PERCENT EXCEEDS	19		16		18	
90 PERCENT EXCEEDS	3.9		3.8		4.0	

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 mi^2, of which about 101 mi^2 does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1925 to current year. Prior to October 1953, published as "at lock 6, at Warwick."

REVISED RECORDS.--WSP 1385: 1926-27, 1928(M), 1929, 1931(M), 1932, 1933-34(M), 1935, 1937, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 489.90 ft Kentucky River datum. Prior to November 1934, nonrecording gage at same site and datum. Auxiliary water-stage recorder at lock 5, 14 mi downstream. Prior to Sept. 30, 1981, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Nov. 15 to Jan. 27 and Feb. 8-10. Records good above 1000 ft^3/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. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	311	590	3970	704	7650	6280	2770	5610	5520	1270	553	615
2	413	1840	2720	726	7190	7260	2540	11700	5700	1780	540	356
3	408	1780	1910	740	6100	6490	2470	14800	6130	1510	549	188
4	207	1890	1670	760	5060	5630	2240	13300	5760	1170	476	179
5	203	2160	5270	800	5030	4990	2210	10400	5190	1040	458	347
6	235	1010	7710	3400	5610	5850	2050	8940	4000	1230	467	602
7	474	646	4500	11000	6110	11300	1850	7460	3210	919	537	100
8	162	965	3600	21000	5870	25400	1690	6560	2500	1090	824	95
9	288	524	2900	16000	5030	30800	1650	6450	2100	947	888	147
10	308	588	4400	11000	3900	34900	1620	15500	2640	746	1370	158
11	206	665	18100	8000	3580	30000	1580	12100	1820	614	2520	146
12	335	603	11000	7000	3440	23100	1510	11100	2280	464	1960	116
13	187	691	8000	6700	3180	20800	1970	14500	6680	407	1640	183
14	1220	573	5700	6400	2640	18800	3030	33200	10300	604	1390	182
15	2210	475	4000	14100	3370	15700	3120	44300	8600	867	1490	525
16	1570	640	3100	30000	18600	13000	2780	47100	5970	799	1410	257
17	1010	610	2400	39000	38000	10400	2450	45700	4160	617	1410	271
18	766	570	2100	33000	37400	8370	3010	52300	2700	686	1350	391
19	1010	540	2000	24000	27800	7110	4070	68200	2210	607	1270	477
20	846	519	3020	15900	17700	6250	3510	68600	2210	843	1140	622
21	714	480	2270	15400	13500	5810	5560	61400	2100	904	796	709
22	2160	440	1520	13700	11500	5830	9710	49800	2090	510	739	697
23	1910	404	1420	10000	9860	4920	10900	23300	2120	450	943	488
24	733	375	1430	8500	8730	5320	16300	14100	1520	517	494	389
25	702	350	1100	7000	7300	5210	26000	11600	1690	679	418	334
26	753	329	1040	5900	6090	4780	21800	11000	2100	509	377	291
27	883	1000	1310	4500	5160	4360	13200	9690	2390	882	335	295
28	766	3000	1060	6510	5200	3870	10600	8470	2670	500	300	355
29	746	6800	983	12500	---	3660	8770	7750	2130	436	748	393
30	463	5030	840	9840	---	3400	6410	7110	1340	400	441	406
31	420	---	753	8980	---	3080	---	6640	---	408	636	---
TOTAL	22619	36087	111796	353060	280600	342670	177370	708680	109830	24405	28469	10314
MEAN	730	1203	3606	11390	10020	11050	5912	22860	3661	787	918	344
MAX	2210	6800	18100	39000	38000	34900	26000	68600	10300	1780	2520	709
MIN	162	329	753	704	2640	3080	1510	5610	1340	400	300	95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1995, BY WATER YEAR (WY)

MEAN	1996	4201	9340	10930	12780	15030	11730	8261	3899	2051	1993	1742
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1961 - 1995	
ANNUAL TOTAL	3527652		2205900			
ANNUAL MEAN	9665		6044		6970	
HIGHEST ANNUAL MEAN					11050	1994
LOWEST ANNUAL MEAN					2826	1988
HIGHEST DAILY MEAN	71000	Mar 11	68600	May 20	125000	Dec 10 1978
LOWEST DAILY MEAN	162	Oct 8	95	Sep 8	83	Sep 4 1984
ANNUAL SEVEN-DAY MINIMUM	268	Oct 5	135	Sep 7	112	Nov 8 1991
INSTANTANEOUS PEAK FLOW			74400	May 19	130000	Dec 10 1978
INSTANTANEOUS PEAK STAGE			30.08	May 19	49.04	Dec 10 1978
10 PERCENT EXCEEDS	30600		15000		17800	
50 PERCENT EXCEEDS	2100		2130		3020	
90 PERCENT EXCEEDS	478		392		484	

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 mi^2, (includes that of Benson Creek), of which about 120 mi^2 does not contribute directly to surface runoff.

PERIOD OF RECORD.--March 1905 to July 1906 (gage heights only), October 1925 to current year. Monthly discharge only October 1930 to February 1931, October, November 1931, and May to September 1932, published in WSP 1305. Gage-height records collected in this vicinity September 1887 to December 1889, January to May 1893, and since April 1901 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 1113: 1941-42. WSP 1385: 1926-27, 1929(M), 1932-33, 1935-37, 1938(M), drainage area. WSP 1555: 1932(M).

GAGE.--Water-stage recorder. Datum of gage is 462.10 ft above sea level. See WDR KY-90-1 for history of changes prior to Jan. 28, 1982.

REMARKS.--Estimated daily discharges: Sept. 9-12. Record good above 1,000 ft^3/s except for period of estimated record, which is fair. Records poor below 1,000 ft^3/s. 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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	345	636	4440	765	8900	7310	3350	5380	5960	1830	565	754
2	300	1480	3190	718	8150	8350	2970	11200	9810	2220	579	573
3	349	1620	2380	669	7190	7840	2680	14800	7240	2060	600	420
4	338	1920	2320	978	6070	6890	2350	13400	6250	1720	552	394
5	303	1930	5800	1080	5840	6450	2200	10400	5330	1640	594	409
6	271	1090	6860	1450	5960	7170	2080	8900	4190	1760	1130	700
7	390	676	5800	14500	6230	13600	1940	7490	3280	1360	898	415
8	297	829	5150	23100	6250	33700	1800	6520	2570	1490	4370	371
9	275	594	3710	22100	5960	33900	1750	7350	2270	1360	1540	340
10	360	645	5340	14400	4920	36200	1730	15600	2620	1130	1680	310
11	281	632	16100	10000	3450	33000	1750	13000	2200	919	2730	290
12	326	543	14400	8430	3310	27100	1870	11100	3610	783	2350	270
13	309	583	10600	7950	3310	24000	2200	15600	6590	677	1980	308
14	685	532	7910	7440	3060	21200	3150	34700	10300	837	1750	307
15	1860	496	6160	15500	4710	17700	3420	43700	9410	1110	1790	519
16	1670	704	5160	31700	22600	14600	3180	46900	6830	1120	1740	521
17	1090	675	4520	38500	40900	11700	2910	48300	4850	807	1720	560
18	749	610	3450	38700	37800	9400	3160	57900	3310	871	1660	543
19	1190	630	3120	27400	32800	8110	4420	70400	2780	738	1630	591
20	892	541	3490	16500	21100	7240	3960	69900	2770	918	1460	720
21	790	582	2900	15900	15600	6750	7420	63900	2630	977	1050	825
22	1680	540	2090	14900	13300	6710	10200	53100	2680	661	876	905
23	1790	500	1810	11700	11400	5870	11000	28600	2640	567	1100	696
24	965	493	1670	9560	10100	6050	16600	14800	2040	595	748	578
25	820	457	1320	7910	8650	6000	27100	11900	2180	699	592	512
26	780	459	1020	6660	7420	5600	24100	10900	2570	555	546	490
27	1100	554	1300	5800	6480	5220	14200	9750	3280	892	525	475
28	887	1690	1040	11500	6420	4680	10700	8630	3290	627	467	494
29	894	6350	966	15100	---	4400	8750	7810	2690	509	791	531
30	706	5440	864	11300	---	4180	6340	7090	1910	483	670	554
31	571	---	778	10200	---	3650	---	6650	---	471	713	---
TOTAL	23263	34431	135658	402410	317880	394570	189280	735670	128080	32386	39396	15375
MEAN	750	1148	4376	12980	11350	12730	6309	23730	4269	1045	1271	512
MAX	1860	6350	16100	38700	40900	36200	27100	70400	10300	2220	4370	905
MIN	271	457	778	669	3060	3650	1730	5380	1910	471	467	270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961-1995, BY WATER YEAR (WY)

MEAN	2111	4502	9865	11480	13360	15830	12180	8626	4098	2208	2140	1868
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1961 - 1995	
ANNUAL TOTAL	3751024		2448399			
ANNUAL MEAN	10280		6708		7329	
HIGHEST ANNUAL MEAN					11860	1979
LOWEST ANNUAL MEAN					3182	1988
HIGHEST DAILY MEAN	82800	Mar 10	70400	May 19	116000	Dec 10 1978
LOWEST DAILY MEAN	271	Oct 6	270	Sep 12	93	Jul 10 1988
ANNUAL SEVEN-DAY MINIMUM	311	Oct 5	311	Oct 5	128	Jul 4 1988
INSTANTANEOUS PEAK FLOW			73600	May 19	118000	Dec 9 1978
INSTANTANEOUS PEAK STAGE			33.76	May 20	48.47	Dec 10 1978
10 PERCENT EXCEEDS	33700		15600		18200	
50 PERCENT EXCEEDS	2120		2570		3280	
90 PERCENT EXCEEDS	510		511		530	

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 at mile 58.3.

DRAINAGE AREA.--119 mi^2, of which about 8 mi^2 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: Oct. 5-7, Dec. 29 to Jan. 5, Feb. 7-14. Records good except for periods of estimated record, which are fair. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality section.

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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	11	33	26	349	108	42	80	135	30	9.8	4.5
2	3.0	12	23	24	304	93	40	336	343	26	17	4.6
3	3.0	11	17	22	232	86	38	323	315	21	13	5.3
4	2.7	11	20	21	190	82	35	191	204	17	7.6	5.2
5	2.5	11	404	20	153	84	32	185	150	16	9.2	4.4
6	2.4	20	284	59	120	133	30	160	120	17	111	3.7
7	2.3	21	139	954	100	293	29	122	97	15	92	4.0
8	2.1	15	78	427	84	3480	28	100	82	17	50	6.3
9	2.2	14	60	264	74	1870	34	160	80	14	37	3.1
10	2.3	17	237	187	64	885	37	831	96	12	583	2.5
11	1.6	8.9	1120	156	58	716	33	460	78	9.9	283	2.1
12	2.6	9.0	425	190	52	573	38	327	549	8.8	120	2.1
13	4.9	11	254	200	48	432	67	308	369	8.1	73	3.2
14	7.4	9.8	164	170	45	334	48	819	203	7.2	51	3.9
15	24	8.3	112	484	184	259	36	764	132	17	38	2.9
16	14	15	92	997	861	206	30	466	98	59	30	4.7
17	9.9	19	160	605	575	160	29	1730	81	26	23	48
18	7.4	36	193	392	377	134	33	6040	79	18	20	62
19	11	22	139	292	286	113	35	4840	64	13	24	27
20	8.5	15	105	332	228	104	32	1150	52	10	24	17
21	36	12	86	301	186	114	408	648	45	8.0	22	13
22	38	9.5	74	238	150	103	390	455	38	6.9	16	9.0
23	21	7.4	65	193	131	85	190	318	37	7.0	13	6.8
24	16	6.4	58	156	117	76	595	224	35	9.6	9.9	5.8
25	14	6.6	51	127	100	66	397	171	34	21	8.5	5.3
26	13	7.1	45	109	90	60	246	243	30	21	6.9	4.7
27	13	11	40	95	84	59	171	167	106	14	6.4	4.2
28	13	163	37	1310	91	56	130	225	67	12	7.3	3.8
29	12	155	33	2160	---	52	102	419	44	11	5.8	3.7
30	11	52	30	714	---	48	85	191	34	11	4.9	3.7
31	11	---	28	454	---	44	---	128	---	11	4.6	---
TOTAL	315.3	727.0	4606	11679	5333	10908	3440	22581	3797	494.5	1720.9	276.5
MEAN	10.2	24.2	149	377	190	352	115	728	127	16.0	55.5	9.22
MAX	38	163	1120	2160	861	3480	595	6040	549	59	583	62
MIN	1.6	6.4	17	20	45	44	28	80	30	6.9	4.6	2.1
CFSM	.09	.20	1.25	3.17	1.60	2.96	.96	6.12	1.06	.13	.47	.08
IN.	.10	.23	1.44	3.65	1.67	3.41	1.08	7.06	1.19	.15	.54	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1995, BY WATER YEAR (WY)

MEAN	34.2	88.0	255	285	346	385	236	181	89.4	56.0	49.4	44.4
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1950 - 1995	
ANNUAL TOTAL	75632.6		65878.2			
ANNUAL MEAN	207		180		170	
HIGHEST ANNUAL MEAN					319	1979
LOWEST ANNUAL MEAN					28.0	1954
HIGHEST DAILY MEAN	4120	Mar 10	6040	May 18	7860	Dec 9 1978
LOWEST DAILY MEAN	1.6	Oct 11	1.6	Oct 11	.00	Sep 11 1951
ANNUAL SEVEN-DAY MINIMUM	2.0	Sep 19	2.2	Oct 5	.00	Sep 11 1951
INSTANTANEOUS PEAK FLOW			6740	May 18	8730	Dec 9 1978
INSTANTANEOUS PEAK STAGE			17.97	May 18	20.22	Dec 9 1978
ANNUAL RUNOFF (CFSM)	1.74		1.52		1.43	
ANNUAL RUNOFF (INCHES)	23.64		20.59		19.37	
10 PERCENT EXCEEDS	546		400		419	
50 PERCENT EXCEEDS	46		48		47	
90 PERCENT EXCEEDS	4.2		5.6		3.2	

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, 0.4 mi downstream from Dry Run, and at mile 33.4.

DRAINAGE AREA.--147 mi^2, of which about 8 mi^2 does not contribute directly to surface runoff.

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

GAGE.--Water-stage recorder and concrete control. 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. 29 to Jan. 5, Feb. 9, 10, 13, and July 5-10. Records good except for periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality section.

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	7.9	9.5	77	25	407	125	40	101	271	32	19	7.9
2	7.7	9.6	61	23	373	107	37	374	618	28	72	7.5
3	6.5	9.7	52	22	284	96	37	371	452	24	18	7.4
4	5.1	8.9	93	21	232	90	34	220	271	19	10	7.2
5	5.0	8.7	545	20	190	101	31	201	193	19	53	7.2
6	5.0	11	362	53	168	154	30	182	146	18	361	7.2
7	4.8	12	195	911	157	325	29	138	114	17	125	6.5
8	4.5	11	126	493	134	3690	29	111	116	16	54	5.3
9	6.2	12	112	295	115	2160	40	224	123	15	34	5.3
10	8.6	22	369	214	106	1000	37	854	115	12	933	5.3
11	7.5	19	1140	179	96	795	35	532	151	10	364	4.8
12	7.2	14	510	207	92	633	50	363	964	10	146	4.9
13	15	15	299	222	83	475	71	403	480	8.2	78	6.0
14	21	15	198	201	80	358	59	1090	257	7.2	53	7.3
15	26	14	141	529	260	279	42	882	161	5.8	38	7.4
16	24	50	118	1070	1080	225	34	525	109	49	30	15
17	16	36	194	714	712	184	33	1710	82	26	23	95
18	12	35	229	468	464	151	34	6030	83	16	28	105
19	24	27	175	345	347	126	39	5240	62	12	58	45
20	24	19	132	392	276	113	42	1270	53	10	30	30
21	21	16	106	357	228	124	441	723	44	8.8	29	24
22	29	14	86	283	186	112	501	493	36	7.6	19	16
23	22	13	76	232	160	88	238	350	33	7.6	15	12
24	15	11	67	189	142	78	623	256	31	10	13	10
25	13	11	58	155	119	68	480	200	32	14	13	9.4
26	11	13	50	132	104	62	296	248	32	22	10	9.2
27	10	27	43	113	95	62	207	192	92	15	9.1	8.5
28	10	198	39	1390	104	60	157	233	69	11	9.0	8.7
29	10	264	35	2350	---	55	123	479	47	9.4	8.3	8.2
30	9.6	121	31	851	---	47	99	232	36	8.8	7.6	7.6
31	9.0	---	28	542	---	43	---	149	---	7.5	7.7	---
TOTAL	397.6	1046.4	5747	12998	6794	11986	3948	24376	5273	475.9	2667.7	500.8
MEAN	12.8	34.9	185	419	243	387	132	786	176	15.4	86.1	16.7
MAX	29	264	1140	2350	1080	3690	623	6030	964	49	933	105
MIN	4.5	8.7	28	20	80	43	29	101	31	5.8	7.6	4.8
CFSM	.09	.24	1.26	2.85	1.65	2.63	.90	5.35	1.20	.10	.59	.11
IN.	.10	.26	1.45	3.29	1.72	3.03	1.00	6.17	1.33	.12	.68	.13

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

MEAN	42.0	216	220	461	416	538	255	389	135	25.1	91.0	14.3
MAX	71.2	398	267	631	540	664	408	786	211	39.5	156	17.6
(WY)	1994	1994	1994	1994	1994	1994	1994	1995	1993	1993	1993	1993
MIN	12.8	34.9	185	333	243	387	132	65.5	19.6	15.4	30.8	8.52
(WY)	1995	1995	1995	1993	1995	1995	1995	1993	1994	1995	1994	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1993 - 1995	
ANNUAL TOTAL	86911.5		76210.4			
ANNUAL MEAN	238		209		244	
HIGHEST ANNUAL MEAN					280	1994
LOWEST ANNUAL MEAN					209	1995
HIGHEST DAILY MEAN	4400	Mar 10	6030	May 18	6030	May 18 1995
LOWEST DAILY MEAN	4.5	Sep 22	4.5	Oct 8	4.5	Sep 22 1994
ANNUAL SEVEN-DAY MINIMUM	5.0	Jul 9	5.3	Oct 3	5.0	Jul 9 1994
INSTANTANEOUS PEAK FLOW			6880	May 18	6880	May 18 1995
INSTANTANEOUS PEAK STAGE			10.81	May 18	10.81	May 18 1995
ANNUAL RUNOFF (CFSM)	1.62		1.42		1.66	
ANNUAL RUNOFF (INCHES)	21.99		19.29		22.58	
10 PERCENT EXCEEDS	635		480		587	
50 PERCENT EXCEEDS	50		55		90	
90 PERCENT EXCEEDS	6.6		8.3		8.8	

KENTUCKY RIVER BASIN

03288110 ROYAL SPRINGS AT GEORGETOWN, KY

LOCATION.--Lat 38°12'34", long 84°33'43", Scott County, Hydrologic Unit 05100205, at Georgetown Water Plant, 200 ft downstream from dam, and 0.64 mi upstream from mouth.

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

GAGE.--Water-stage recorder. Datum of gage is 800.00 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges: Records good above 10 cfs and poor below. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	1.9	1.4	11	8.7	53	24	9.9	22	49	4.0	.00	.37
2	2.1	1.4	8.4	8.9	49	20	9.9	39	61	3.0	.05	.31
3	1.8	1.2	9.0	7.9	46	19	8.7	28	61	2.3	.00	.23
4	1.6	.50	24	7.1	42	18	8.2	24	55	1.9	.00	.15
5	1.0	.96	58	6.5	38	23	7.5	31	47	2.1	6.3	.03
6	.50	2.2	37	22	35	28	6.8	24	41	1.6	34	.00
7	.18	1.7	27	52	33	39	5.5	19	37	1.4	10	.00
8	.49	1.3	22	45	31	120	6.0	15	34	.97	7.9	.00
9	2.2	1.9	23	36	25	82	9.3	32	38	.94	4.3	.00
10	2.9	4.6	53	31	21	69	6.5	42	32	.65	64	.00
11	2.6	2.8	65	30	20	63	5.7	42	39	.34	40	.00
12	1.9	2.0	54	30	18	58	21	37	58	.29	23	.13
13	8.4	1.8	41	28	16	55	14	42	43	.16	16	.19
14	5.7	1.5	32	29	14	51	9.3	63	33	.10	13	.00
15	3.5	1.8	28	51	36	48	6.4	59	27	.21	9.2	.00
16	2.7	17	28	65	59	43	6.1	50	23	.85	7.7	7.7
17	2.4	9.4	32	61	53	40	12	98	19	.25	3.3	32
18	1.9	5.8	29	55	50	37	8.1	232	13	.07	7.5	11
19	13	4.2	26	49	46	35	6.5	110	5.1	.01	22	7.2
20	9.7	3.4	24	51	43	34	18	79	2.5	.00	9.9	4.2
21	4.9	2.7	21	44	40	34	46	68	2.1	.00	6.0	3.4
22	4.0	1.9	20	40	36	31	38	63	.63	.00	4.1	2.5
23	3.4	2.0	18	38	33	28	33	59	2.7	.48	3.3	1.8
24	2.3	1.9	16	34	29	23	48	54	4.1	12	4.4	1.6
25	2.0	2.4	15	30	25	19	44	49	3.1	1.6	4.3	.98
26	1.9	2.7	13	27	23	17	36	50	9.4	.84	3.3	1.0
27	1.1	20	12	25	22	15	31	42	27	.50	2.3	.27
28	.63	46	11	93	28	14	26	55	13	.59	1.3	.58
29	.73	22	9.9	87	---	13	21	48	7.3	.37	.49	.30
30	.60	16	9.2	67	---	12	17	40	5.5	.00	.77	.29
31	.45	---	8.7	58	---	10	---	36	---	.00	.67	---
TOTAL	88.48	184.46	785.2	1217.1	964	1122	525.4	1652	792.43	37.52	309.08	76.23
MEAN	2.85	6.15	25.3	39.3	34.4	36.2	17.5	53.3	26.4	1.21	9.97	2.54
MAX	13	46	65	93	59	120	48	232	61	12	64	32
MIN	.18	.50	8.4	6.5	14	10	5.5	15	.63	.00	.00	.0

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

MEAN	5.93	21.0	31.8	41.0	40.0	46.7	33.5	35.0	19.7	4.79	10.3	3.67
MAX	9.01	35.9	38.2	46.7	52.5	52.7	47.5	53.3	29.7	7.58	13.0	5.48
(WY)	1994	1994	1994	1994	1994	1994	1994	1995	1993	1993	1993	1993
MIN	2.85	6.15	25.3	37.2	32.9	36.2	17.5	15.0	3.04	1.21	8.00	2.54
(WY)	1995	1995	1995	1993	1993	1995	1995	1993	1994	1995	1994	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1993 - 1995	
ANNUAL TOTAL	8771.92		7753.90			
ANNUAL MEAN	24.0		21.2		24.7	
HIGHEST ANNUAL MEAN					28.1	1994
LOWEST ANNUAL MEAN					21.2	1995
HIGHEST DAILY MEAN	127	Jan 28	232	May 18	232	May 18 1995
LOWEST DAILY MEAN	.00	Jun 22	.00	Jul 20	.00	Oct 15 1993
ANNUAL SEVEN-DAY MINIMUM	.20	Jun 19	.00	Sep 5	.00	Sep 5 1995
INSTANTANEOUS PEAK FLOW			393	May 18	393	May 18 1995
INSTANTANEOUS PEAK STAGE			3.91	May 18	3.91	May 18 1995
10 PERCENT EXCEEDS	58		52		55	
50 PERCENT EXCEEDS	14		13		19	
90 PERCENT EXCEEDS	1.1		.37		1.3	

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 mi^2, of which about 21 mi^2 does not contribute directly to surface runoff.

PERIOD OF RECORD.--September 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 790 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 27 to Jan. 4, Feb. 8-14 and May 17-19. Records good except for periods of estimated daily discharges, which are fair. Water is diverted from the Kentucky River, for use by the city of Lexington, and is discharged into Town Branch at a site 17 mi above gage. Discharge partially regulated by low-head turbine, 1 mile upstream, since October 1989. Regulation does not effect peak discharge. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	27	19	80	35	296	130	60	112	262	117	36	26
2	29	23	70	33	235	116	61	277	539	91	38	20
3	40	23	50	31	192	108	60	177	518	79	33	21
4	28	21	85	29	163	102	61	144	352	63	33	19
5	20	14	497	45	139	123	54	180	265	72	21	24
6	9.6	29	243	109	121	203	55	136	242	72	291	25
7	9.4	28	159	814	108	240	52	117	192	72	110	22
8	3.1	31	116	365	98	2260	40	107	160	48	97	22
9	28	28	112	259	88	1370	70	222	197	48	76	18
10	43	54	372	194	80	774	63	329	153	59	595	20
11	21	42	718	179	73	603	54	250	193	44	241	26
12	8.7	30	348	193	69	475	119	195	465	38	135	21
13	52	24	228	174	64	377	95	205	326	38	94	29
14	75	25	172	162	60	304	71	556	239	47	72	35
15	33	23	138	338	212	250	58	524	181	31	61	29
16	21	66	122	545	615	212	54	359	152	51	53	28
17	22	80	208	425	474	181	63	1350	131	53	48	346
18	13	55	169	316	345	156	70	3660	121	46	44	104
19	73	26	142	250	269	137	55	3230	107	37	124	73
20	104	26	122	283	220	128	95	1090	99	37	76	56
21	62	35	107	226	195	150	412	665	91	16	58	54
22	39	30	96	193	163	119	249	497	88	32	93	47
23	31	29	85	171	145	109	182	374	106	61	56	28
24	28	4.7	77	149	133	99	430	298	81	133	41	33
25	29	31	68	130	115	87	270	261	77	74	41	39
26	23	14	60	117	106	80	201	324	149	69	32	26
27	24	101	54	106	100	84	162	204	966	56	31	29
28	20	370	49	768	158	84	136	281	259	67	32	29
29	14	170	45	1200	---	76	115	256	164	42	28	31
30	16	105	41	565	---	70	101	187	125	41	28	20
31	20	---	38	390	---	68	---	158	---	49	28	---
TOTAL	965.8	1556.7	4871	8794	5036	9275	3568	16725	7000	1783	2746	1300
MEAN	31.2	51.9	157	284	180	299	119	540	233	57.5	88.6	43.3
MAX	104	370	718	1200	615	2260	430	3660	966	133	595	346
MIN	3.1	4.7	38	29	60	68	40	107	77	16	21	18
CFSM	.30	.49	1.50	2.70	1.71	2.85	1.13	5.14	2.22	.55	.84	.41
IN.	.34	.55	1.73	3.12	1.78	3.29	1.26	5.93	2.48	.63	.97	.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1995, BY WATER YEAR (WY)

MEAN	67.6	142	241	233	302	263	187	212	141	87.2	73.3	56.4
MAX	151	307	673	395	1030	492	366	718	337	240	255	108
(WY)	1991	1994	1991	1994	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1982 - 1995	
ANNUAL TOTAL	69319.5		63620.5			
ANNUAL MEAN	190		174		167	
HIGHEST ANNUAL MEAN					257	1989
LOWEST ANNUAL MEAN					103	1986
HIGHEST DAILY MEAN	2650	Mar 10	3660	May 18	7000	Feb 15 1989
LOWEST DAILY MEAN	3.1	Oct 8	3.1	Oct 8	3.1	Oct 8 1994
ANNUAL SEVEN-DAY MINIMUM	18	Oct 6	18	Oct 6	18	Oct 6 1994
INSTANTANEOUS PEAK FLOW			4800	May 18	7270	Feb 15 1989
INSTANTANEOUS PEAK STAGE			19.04	May 18	21.28	Feb 15 1989
INSTANTANEOUS LOW FLOW					.00	Oct 7 1992
ANNUAL RUNOFF (CFSM)	1.81		1.66		1.59	
ANNUAL RUNOFF (INCHES)	24.56		22.54		21.55	
10 PERCENT EXCEEDS	483		361		350	
50 PERCENT EXCEEDS	80		87		88	
90 PERCENT EXCEEDS	26		25		32	

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 mi^2 of which about 70 mi^2 does not contribute directly to surface runoff.

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

REVISED RECORDS.--WSP 1555: Drainage area.

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

REMARKS.--Estimated daily discharges: Dec. 28-Jan. 5, Feb. 9, 13, June 6-13. 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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	42	226	173	1510	398	184	351	567	226	81	56
2	42	43	173	165	1330	360	168	831	1990	200	61	51
3	35	43	142	160	1110	322	169	1060	2240	164	89	47
4	34	45	130	153	899	298	166	719	1290	150	86	44
5	38	43	850	150	719	301	159	576	875	154	84	43
6	41	45	1300	253	583	397	150	564	700	164	415	40
7	34	39	658	1360	493	671	155	459	580	151	599	42
8	29	49	426	1900	441	6380	141	393	460	145	307	44
9	31	48	345	984	408	6710	148	719	410	106	225	42
10	29	54	690	681	374	3730	180	1680	370	103	773	41
11	53	66	2870	547	350	2740	183	1640	350	111	1720	37
12	47	71	2050	556	314	2190	209	1200	3000	87	612	38
13	50	76	1130	587	296	1700	305	1170	1780	80	355	43
14	55	67	748	557	277	1330	263	3590	1080	73	250	41
15	98	59	555	897	556	1070	221	3350	684	78	197	48
16	79	83	461	2510	3020	862	188	2030	460	64	164	56
17	66	115	587	2520	2600	695	178	2800	355	95	139	176
18	64	159	700	1650	1740	577	181	11100	283	129	121	359
19	81	112	604	1120	1310	490	200	12700	252	101	104	225
20	95	88	501	967	1050	441	195	6140	209	80	223	153
21	140	80	432	977	848	430	853	2970	179	68	166	110
22	113	72	381	771	687	417	1630	1950	155	57	130	97
23	82	63	340	626	576	354	877	1380	135	56	147	82
24	71	57	311	517	503	312	1240	994	130	94	115	60
25	69	56	283	422	442	277	1540	733	134	162	90	58
26	63	45	258	358	393	246	1010	692	130	121	86	61
27	57	66	236	315	358	233	707	622	1100	109	74	50
28	51	203	215	1870	349	233	538	517	757	107	66	48
29	48	609	201	6030	---	224	437	916	393	104	67	49
30	44	367	188	3340	---	211	369	666	277	71	61	48
31	39	---	180	2060	---	196	---	422	---	68	58	---
TOTAL	1821	2965	18171	35176	23536	34795	12944	64934	21325	3478	7665	2289
MEAN	58.7	98.8	586	1135	841	1122	431	2095	711	112	247	76.3
MAX	140	609	2870	6030	3020	6710	1630	12700	3000	226	1720	359
MIN	29	39	130	150	277	196	141	351	130	56	58	37
CFSM	.12	.21	1.24	2.40	1.78	2.37	.91	4.43	1.50	.24	.52	.16
IN.	.14	.23	1.43	2.77	1.85	2.74	1.02	5.11	1.68	.27	.60	.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1995, BY WATER YEAR (WY)

MEAN	128	325	867	1121	1304	1381	926	640	368	237	178	151
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1916 - 1995	
ANNUAL TOTAL	300777		229099			
ANNUAL MEAN	824		628		633	
HIGHEST ANNUAL MEAN					1091	1979
LOWEST ANNUAL MEAN					126	1954
HIGHEST DAILY MEAN	10200	Jan 28	12700	May 19	25000	Feb 16 1989
LOWEST DAILY MEAN	29	Oct 8	29	Oct 8	.00	Jan 7 1940
ANNUAL SEVEN-DAY MINIMUM	34	Oct 4	34	Oct 4	.00	Jan 7 1940
INSTANTANEOUS PEAK FLOW			13300	May 19	28700	Feb 16 1989
INSTANTANEOUS PEAK STAGE			12.75	May 19	15.26	Feb 16 1989
ANNUAL RUNOFF (CFSM)	1.74		1.33		1.34	
ANNUAL RUNOFF (INCHES)	23.66		18.02		18.17	
10 PERCENT EXCEEDS	2330		1580		1590	
50 PERCENT EXCEEDS	196		226		201	
90 PERCENT EXCEEDS	45		48		32	

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 mi^2, of which about 196 mi^2 does not contribute directly to surface runoff.

WATER-DISCHARGE RECORDS

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.--No estimated daily discharges: Water-discharge records good. 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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	361	594	4610	1090	11300	7000	3280	6540	7670	3030	844	647
2	295	1020	3410	1050	10400	8160	2830	13400	17100	2890	1000	553
3	307	1460	2570	899	8940	8110	2610	18100	11800	2900	830	375
4	307	1770	2300	1160	7450	6880	2420	16400	8950	2490	872	244
5	227	1960	5730	1330	6730	6400	2170	12900	7330	2930	1120	215
6	175	1350	7830	1290	6810	6950	2090	10800	6200	2700	2920	439
7	238	760	6120	10900	7470	13400	1920	9040	4860	2140	2600	440
8	256	724	5350	24200	7300	40400	1790	7620	4150	2090	6590	205
9	192	708	4480	24100	6670	48800	2030	10600	3780	2020	2140	164
10	218	638	5640	17400	5740	42000	1810	16100	4190	1760	1610	149
11	215	625	15900	12000	4860	39800	1860	17300	3800	1560	3950	154
12	228	580	17600	9890	4540	30400	2540	13600	7090	1360	3310	162
13	286	571	13100	8880	4320	25900	2560	18200	8530	1160	2440	157
14	367	568	9450	8320	3890	23800	3270	38300	11900	1250	1960	174
15	1380	547	7210	13400	7240	20300	3730	46600	11000	1450	1800	243
16	1710	675	6100	30500	24300	16900	3440	51400	7990	1620	1780	407
17	1210	820	6310	40000	39900	13500	3080	53800	5800	1260	1660	516
18	778	761	4720	43400	42900	10600	3100	70400	4260	1300	1570	644
19	1140	757	4130	34200	36100	8860	4760	81800	3570	1170	1570	732
20	950	663	4050	19900	23200	7850	4480	84900	3510	1230	1450	765
21	870	661	3850	18300	17700	7210	9410	78100	3260	1330	1270	788
22	1310	585	2870	17500	14500	7040	12400	67600	3370	1130	885	812
23	1810	572	2400	13800	12300	6380	13200	48800	3350	888	996	733
24	1220	540	2160	11200	10700	6200	18600	22600	3000	900	901	562
25	810	517	1930	9000	9150	6300	28100	17100	3180	1020	574	455
26	740	516	1470	7560	7720	5850	28200	13700	3220	997	475	382
27	1040	582	1660	6550	6610	5440	18500	12000	4870	1120	436	356
28	910	1690	1510	12300	6300	4950	13100	11400	4710	1120	389	355
29	871	5280	1320	22700	---	4490	10600	9860	3940	875	483	392
30	813	5870	1300	17400	---	4340	7900	8780	3180	813	672	437
31	624	---	1140	13400	---	3610	---	8080	---	737	595	---
TOTAL	21858	34364	158220	453619	355040	447820	215780	895820	179560	49240	49692	12657
MEAN	705	1145	5104	14630	12680	14450	7193	28900	5985	1588	1603	422
MAX	1810	5870	17600	43400	42900	48800	28200	84900	17100	3030	6590	812
MIN	175	516	1140	899	3890	3610	1790	6540	3000	737	389	149

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1995, BY WATER YEAR (WY)

MEAN	2399	5066	11380	13290	15340	18730	14220	10170	4898	2586	2456	2229
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1961 - 1995	
ANNUAL TOTAL	4318400		2873670			
ANNUAL MEAN	11830		7873		8533	
HIGHEST ANNUAL MEAN					14030	1979
LOWEST ANNUAL MEAN					3891	1988
HIGHEST DAILY MEAN	90100	Mar 11	84900	May 20	121000	Dec 11 1978
LOWEST DAILY MEAN	175	Oct 6	149	Sep 10	131	Oct 4 1981
ANNUAL SEVEN-DAY MINIMUM	217	Oct 5	166	Sep 8	166	Sep 8 1995
INSTANTANEOUS PEAK FLOW			85700	May 20	123000	Jan 26 1937
INSTANTANEOUS PEAK STAGE			41.50	May 20	56.85	Jan 24 1937
10 PERCENT EXCEEDS	38900		18400		21700	
50 PERCENT EXCEEDS	2540		3180		3820	
90 PERCENT EXCEEDS	577		467		644	

KENTUCKY RIVER BASIN

03290500 KENTUCKY RIVER AT LOCK 2, AT LOCKPORT, KY--Continued

(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to June 1995 (discontinued).
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January 1973 to September 1991.
WATER TEMPERATURES: January 1973 to September 1991.
REMARKS.--Flow regulated by Buckhorn Lake, Herrington Lake, and hydroelectric plant at lock 7.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 660 microsiemens, Oct. 31, 1986; minimum daily, 100 microsiemens, Sept. 23, 1973.
WATER TEMPERATURES: Maximum daily, 33.0°C, Aug. 10, 11, 1980, July 29, 1988; minimum daily, 0.0°C, on several days during winters.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
NOV												
22...	1100	554	L 425	7.7	11.5	4.5	8.1	74	5	4	170	46
DEC												
14...	1035	13000	L 429	7.9	8.0	40	9.6	81	400	990	180	52
FEB												
21...	1240	17500	228	7.3	6.0	98	12.9	104	600	2800	96	27
APR												
04...	1115	2310	L 284	8.0	12.0	2.4	10.2	96	8	22	120	33
JUN												
06...	1030	6510	L 317	7.8	20.5	18	8.3	94	470	300	150	47

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA-LINITY WAT DIS TOT FET FIELD MG/L AS CACO3	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO4)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
NOV												
22...	14	15	4.2	108	88	88	14	85	0.30	0.70	248	<0.010
DEC												
14...	13	12	1.4	136	111	111	10	74	0.20	4.6	262	0.010
FEB												
21...	6.9	5.2	2.5	59	48	47	7.7	33	0.10	5.4	139	<0.010
APR												
04...	9.7	6.3	1.8	78	64	64	6.9	51	0.10	5.1	161	<0.010
JUN												
06...	7.4	4.9	2.2	--	--	--	5.8	35	0.20	5.7	190	0.020

KENTUCKY RIVER BASIN

03290500 KENTUCKY RIVER AT LOCK 2, AT LOCKPORT, KY--Continued

(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHOS-PHORUS TOTAL (MG/L AS P)	PHORUS PHORUS DIS-SOLVED (MG/L AS P)	ALUM-ORTHO, DIS-SOLVED (MG/L AS P)	INUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	COBALT, DIS-SOLVED (UG/L AS CO)	IRON, DIS-SOLVED (UG/L AS FE)
NOV										
22...	1.40	0.03	0.2	0.10	0.10	0.08	<10	33	<3	6
DEC										
14...	1.30	0.05	0.4	0.23	0.11	0.12	50	30	<3	19
FEB										
21...	0.73	0.02	0.3	0.06	0.04	0.02	--	--	--	--
APR										
04...	0.55	0.06	<0.2	0.05	<0.01	0.03	10	24	<3	6
JUN										
06...	1.20	0.05	0.3	0.19	0.11	0.11	20	23	<3	19

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV											
22...	<4	15	<10	4	<1	<1.0	220	<6	12	19	74
DEC											
14...	<4	3	<10	<1	<1	<1.0	220	<6	87	3040	93
FEB											
21...	--	--	--	--	--	--	--	--	191	9020	96
APR											
04...	<4	8	<10	<1	<1	<1.0	140	<6	10	65	77
JUN											
06...	<4	4	<10	2	<2	<1.0	120	<6	34	600	91

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 mi^2.

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: Dec. 30 to Jan. 6, Feb. 9-11. Records good, except for periods of estimated record, which are fair. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	.71	4.1	126	24	344	219	74	145	497	60	15	1.0
2	.61	4.3	83	21	817	161	69	1960	4140	38	21	.84
3	.58	4.0	60	19	864	130	64	1070	3060	34	31	.58
4	.51	2.8	44	17	560	116	58	478	802	22	39	.47
5	.42	3.0	705	15	371	134	58	302	463	18	136	.45
6	.39	4.7	1230	13	221	658	54	241	318	18	2150	.52
7	.34	12	372	236	171	1230	49	211	239	19	1360	.62
8	.41	9.9	171	494	147	10400	48	170	281	20	366	.64
9	.58	12	350	322	120	3350	1280	1090	664	22	194	.76
10	.61	17	1360	175	108	1140	585	2460	328	17	126	1.2
11	.56	43	3040	226	92	905	301	738	433	12	1210	2.2
12	.55	29	824	846	82	704	468	445	1540	9.5	309	9.0
13	.77	20	323	544	78	519	919	399	1470	7.4	144	8.6
14	.88	13	176	319	68	385	444	4240	448	6.2	77	6.5
15	.75	10	121	899	1720	302	238	3790	249	6.0	44	5.6
16	.72	11	114	1530	7490	251	171	641	171	5.6	28	7.0
17	.71	11	845	885	1700	215	240	1540	139	7.5	18	7.4
18	.76	13	637	420	642	183	436	6470	112	6.7	13	6.0
19	1.3	21	320	260	434	161	200	8590	95	3.2	11	4.7
20	1.9	20	176	503	340	148	158	1410	81	1.9	9.2	4.2
21	2.3	18	123	592	296	146	2180	633	68	3.6	7.3	4.2
22	2.6	27	99	407	248	136	2240	437	60	3.4	5.5	4.7
23	2.7	21	83	257	212	127	576	313	53	21	5.1	4.4
24	3.2	17	73	187	197	124	834	243	82	45	5.0	3.5
25	3.2	13	65	138	171	102	896	15300	57	36	4.5	2.7
26	2.9	11	57	119	154	90	478	3770	35	33	4.0	2.0
27	2.8	10	49	102	141	86	316	680	28	33	3.4	1.5
28	3.3	20	44	835	171	87	239	2040	128	39	3.4	1.3
29	3.4	287	38	3430	---	84	190	1370	152	32	2.8	1.7
30	3.6	270	31	845	---	80	162	601	91	22	2.1	2.1
31	4.2	---	27	447	---	80	---	370	---	17	1.5	---
TOTAL	48.26	958.8	11766	15127	17959	22453	14025	62147	16284	619.0	6345.8	96.38
MEAN	1.56	32.0	380	488	641	724	467	2005	543	20.0	205	3.21
MAX	4.2	287	3040	3430	7490	10400	2240	15300	4140	60	2150	9.0
MIN	.34	2.8	27	13	68	80	48	145	28	1.9	1.5	.45
CFSM	.00	.07	.87	1.12	1.47	1.66	1.07	4.59	1.24	.05	.47	.01
IN.	.00	.08	1.00	1.29	1.53	1.91	1.19	5.29	1.39	.05	.54	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1995, BY WATER YEAR (WY)

MEAN	108	352	641	946	1107	1297	930	624	411	243	129	109
MAX	1005	1641	1874	3170	3295	5197	2909	2411	1428	1016	755	1355
(WY)	1976	1973	1952	1950	1956	1964	1948	1961	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1916 - 1995	
ANNUAL TOTAL	234085.12		167829.24			
ANNUAL MEAN	641		460		570	
HIGHEST ANNUAL MEAN					1059	1973
LOWEST ANNUAL MEAN					117	1954
HIGHEST DAILY MEAN	16200	Jan 28	15300	May 25	39300	Mar 10 1964
LOWEST DAILY MEAN	.34	Oct 7	.34	Oct 7	.00	Jul 15 1930
ANNUAL SEVEN-DAY MINIMUM	.46	Oct 3	.46	Oct 3	.00	Jul 15 1930
INSTANTANEOUS PEAK FLOW			31500	May 25	58200	Mar 10 1964
INSTANTANEOUS PEAK STAGE			21.12	May 25	26.05	Mar 10 1964
ANNUAL RUNOFF (CFSM)	1.47		1.05		1.30	
ANNUAL RUNOFF (INCHES)	19.93		14.29		17.73	
10 PERCENT EXCEEDS	1310		979		1280	
50 PERCENT EXCEEDS	83		86		96	
90 PERCENT EXCEEDS	1.8		2.1		1.1	

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 mi^2.

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 1994 TO SEPTEMBER 1995

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT					
06...	0820	615	7.0	14.0	5.0
NOV					
03...	0840	676	6.8	11.0	7.2
DEC					
08...	0825	546	7.7	9.5	8.9
JAN					
12...	0815	483	7.4	7.0	11.2
FEB					
08...	1125	389	6.6	0.0	14.5
MAR					
09...	0825	304	6.2	5.0	12.6
APR					
06...	0840	401	7.0	9.5	11.1
MAY					
04...	1025	505	6.6	18.0	8.4
JUN					
29...	0840	457	6.8	23.5	4.5
SEP					
14...	0930	639	7.6	21.0	5.2

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 mi^2.
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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
06...	1105	0.60	618	7.2	15.5	5.7
NOV						
10...	0815	2.9	488	6.9	10.0	7.9
DEC						
08...	1215	3.6	610	8.0	8.0	12.3
JAN						
12...	1155	12	542	7.9	12.0	11.5
FEB						
07...	1035	3.6	318	6.6	1.5	13.2
MAR						
09...	1115	20	387	6.5	7.5	13.5
APR						
06...	1220	2.0	559	6.5	10.5	13.2
MAY						
03...	0845	5.9	543	7.0	11.0	11.3
JUN						
28...	0840	1.5	558	7.3	22.0	5.8
SEP						
14...	1245	0.70	678	7.1	23.5	5.4

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 mi^2.

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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
06...	1015	0.84	600	7.8	11.5	9.4
NOV						
03...	1110	1.4	608	7.2	11.5	11.5
DEC						
08...	1035	8.4	609	7.8	8.0	11.5
JAN						
12...	1035	20	554	7.8	11.0	11.2
FEB						
08...	0840	4.5	347	6.9	0.0	14.3
MAR						
09...	1020	40	349	6.5	6.0	13.3
APR						
06...	1040	2.9	430	6.9	8.5	13.1
MAY						
04...	0835	--	566	6.6	13.0	9.3
JUN						
29...	1055	4.0	533	7.0	21.5	9.3
SEP						
14...	1125	0.64	851	7.9	20.5	7.8

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 mi^2.
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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
06...	0925	0.79	605	8.0	12.0	5.5
NOV						
03...	1000	1.3	600	7.5	11.0	10.7
DEC						
08...	0940	5.7	616	8.0	7.5	10.8
JAN						
12...	0930	15	593	7.7	11.0	10.7
FEB						
08...	0950	2.3	556	6.7	0.5	15.5
MAR						
09...	0920	--	380	6.6	5.5	12.8
APR						
06...	0935	1.7	401	6.8	7.0	12.4
MAY						
04...	0915	--	601	6.6	13.0	10.1
JUN						
29...	0940	2.7	566	6.8	21.5	7.8
SEP						
14...	1020	--	632	8.0	20.5	7.4

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 mi^2.

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: Oct. 2-7, Oct. 23 to Nov. 3. 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 1994 TO SEPTEMBER 1995--DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	5.2	4.5	3.1	13	5.3	2.8	23	17	5.4	37	3.6
2	1.6	6.8	3.6	2.9	11	5.0	3.3	30	34	3.3	7.6	3.0
3	1.5	8.0	3.1	2.9	9.8	4.6	2.9	14	18	2.8	4.2	2.9
4	1.2	12	87	2.7	9.4	4.9	3.6	9.3	9.9	9.7	3.2	2.7
5	1.0	18	32	2.2	8.1	30	4.6	8.2	8.5	151	133	2.8
6	.90	9.2	15	46	7.0	14	4.9	6.7	7.9	19	40	2.6
7	.82	2.4	9.8	22	6.8	27	3.2	5.9	7.5	9.2	161	2.9
8	5.8	2.4	5.4	11	6.1	69	1.5	5.2	6.5	6.4	132	2.7
9	16	23	44	6.9	5.5	37	2.2	96	5.9	4.8	128	2.8
10	2.9	18	44	5.9	5.9	23	3.0	23	5.5	4.0	36	2.7
11	2.8	5.3	30	36	6.0	17	3.3	10	15	3.8	14	4.0
12	3.0	2.7	17	19	4.5	14	26	7.5	21	3.8	10	5.0
13	6.3	2.1	11	14	5.4	12	6.0	65	7.2	3.3	8.2	5.4
14	2.9	2.1	7.3	105	4.7	11	4.2	131	5.7	4.2	7.9	6.4
15	1.8	9.5	6.0	58	103	9.4	3.5	38	4.8	4.1	7.3	6.2
16	2.6	52	43	29	59	8.8	3.3	29	4.9	6.7	9.8	41
17	2.3	11	23	16	32	7.8	6.4	471	4.6	5.5	6.0	15
18	4.0	6.2	14	13	22	6.8	3.1	679	4.5	4.1	4.8	3.8
19	83	3.9	8.7	17	16	6.3	2.7	260	4.0	4.4	4.3	3.2
20	8.0	3.3	8.1	13	14	11	16	87	3.9	3.8	4.9	12
21	4.3	10	6.5	10	11	9.1	79	57	4.3	3.3	6.7	4.3
22	3.4	4.5	6.2	8.9	9.6	6.4	14	37	5.0	37	3.6	2.8
23	2.5	3.0	5.4	8.2	9.8	5.7	14	24	3.6	61	3.9	2.1
24	2.0	2.7	4.9	7.5	8.0	4.9	20	19	3.3	30	3.6	1.9
25	1.7	6.1	4.3	6.9	7.0	4.6	13	30	3.6	8.2	3.2	2.2
26	1.5	3.4	3.8	6.6	7.0	4.1	11	16	5.8	5.9	2.1	2.4
27	1.4	51	3.5	7.2	6.7	6.4	7.8	53	3.3	6.9	2.5	2.7
28	2.0	32	3.5	64	6.7	3.8	6.4	66	5.0	5.4	2.8	2.7
29	2.5	11	3.4	41	---	3.2	5.5	21	15	3.7	3.1	3.4
30	3.0	7.1	3.1	20	---	2.8	5.7	15	5.8	3.1	3.2	4.4
31	4.0	---	3.1	15	---	3.0	---	11	---	3.0	3.7	---
TOTAL	178.52	333.9	464.2	620.9	415.0	377.9	282.9	2347.8	251.0	426.8	797.6	159.6
MEAN	5.76	11.1	15.0	20.0	14.8	12.2	9.43	75.7	8.37	13.8	25.7	5.32
MAX	83	52	87	105	103	69	79	679	34	151	161	41
MIN	.82	2.1	3.1	2.2	4.5	2.8	1.5	5.2	3.3	2.8	2.1	1.9
CFSM	.33	.65	.87	1.16	.86	.71	.55	4.40	.49	.80	1.50	.31
IN.	.39	.72	1.00	1.34	.90	.82	.61	5.08	.54	.92	1.73	.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

MEAN	6.98	13.7	22.7	30.8	40.6	41.4	32.3	27.1	17.4	15.6	10.2	7.14
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	5902.82		6656.12			
ANNUAL MEAN	16.2		18.2		22.3	
HIGHEST ANNUAL MEAN					41.0	1950
LOWEST ANNUAL MEAN					9.35	1959
HIGHEST DAILY MEAN	251	Jan 28	679	May 18	1760	Jul 22 1973
LOWEST DAILY MEAN	.82	Oct 7	.82	Oct 7	.00	Sep 4 1940
ANNUAL SEVEN-DAY MINIMUM	1.3	Oct 1	1.3	Oct 1	.00	Sep 4 1940
INSTANTANEOUS PEAK FLOW			1320	May 17	4940	Mar 9 1964
INSTANTANEOUS PEAK STAGE			12.00	May 17	17.17	Mar 9 1964
INSTANTANEOUS LOW FLOW					.00	Sep 4 1940
ANNUAL RUNOFF (CFSM)	.94		1.06		1.29	
ANNUAL RUNOFF (INCHES)	12.77		14.40		17.59	
10 PERCENT EXCEEDS	38		37		48	
50 PERCENT EXCEEDS	6.3		6.2		7.1	
90 PERCENT EXCEEDS	1.5		2.7		.80	

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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
11...	0800	1.9	376	6.8	13.5	7.2
NOV						
07...	0810	2.3	414	6.6	13.5	7.0
DEC						
12...	0855	18	461	6.8	6.0	10.6
JAN						
10...	1010	5.2	762	7.2	4.0	12.5
FEB						
06...	0840	6.7	418	6.6	2.5	13.0
MAR						
13...	0830	13	612	5.7	11.0	9.5
APR						
10...	0850	2.3	505	7.1	13.0	9.8
MAY						
09...	0825	184	381	6.4	20.0	7.0
JUL						
13...	1130	3.7	560	7.6	27.5	6.4
20...	1240	--	877	7.7	25.5	7.0
27...	0830	4.3	860	7.6	25.5	5.0
Aug						
02...	1255	--	777	7.4	26.5	5.8
10...	0915	44	465	7.5	22.0	7.2
14...	1140	--	795	7.6	26.5	5.1
18...	1030	--	752	7.5	27.5	5.6
24...	0930	2.7	1280	7.7	23.0	5.1
31...	1020	--	1250	7.8	27.5	6.6
SEP						
07...	0830	2.3	1170	7.7	23.0	4.2
15...	1020	--	970	7.6	21.5	5.0
21...	1120	4.0	467	7.2	21.0	5.9
28...	1030	--	999	7.6	18.0	6.5

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 mi^2.

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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
05...	0810	2.6	537	6.5	14.0	7.2
NOV						
08...	0810	2.2	512	6.2	12.0	6.8
DEC						
07...	0828	14	586	7.2	13.0	12.3
JAN						
11...	1030	45	763	7.1	6.5	11.2
FEB						
13...	0825	6.0	1190	6.7	1.0	14.0
MAR						
08...	0810	120	386	6.3	6.0	12.3
APR						
05...	0820	4.1	516	6.6	9.5	8.5
MAY						
11...	0815	16	562	7.1	17.0	6.8
JUL						
13...	0935	3.5	914	7.4	25.0	7.1
20...	1040	--	848	7.4	24.5	7.8
27...	1200	5.1	647	7.6	25.5	8.8
Aug						
02...	1200	--	341	7.2	27.5	5.6
10...	1230	44.1	448	7.6	24.5	8.5
14...	1015	--	725	7.6	26.0	6.4
18...	1215	--	840	7.7	28.5	8.9
24...	1230	3.0	549	7.8	25.5	11.4
31...	1230	--	753	8.2	27.0	13.8
SEP						
07...	1045	2.6	737	7.7	21.5	8.3
15...	0910	--	817	7.4	20.5	6.8
21...	0955	4.7	513	7.3	19.5	6.2
28...	0930	--	639	7.6	15.0	7.5

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 mi^2, of which about 0.5 mi^2 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.--No estimated daily discharges. Water-discharge records are good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1943 reached a stage of 9.1 ft, present site and datum, from information by local residents.

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	1.1	3.4	6.3	4.4	18	8.4	3.7	45	18	7.0	4.5	1.2
2	.99	4.6	5.4	4.4	15	7.9	3.6	49	30	3.5	2.9	1.1
3	.99	5.0	4.6	4.0	13	7.6	3.5	21	27	2.9	2.0	1.0
4	.96	5.3	77	3.9	12	7.0	3.8	15	13	23	1.7	1.0
5	.55	7.6	41	3.6	10	31	3.6	14	11	133	110	.98
6	.52	6.5	18	45	8.9	21	3.1	10	9.5	20	45	.86
7	.48	2.4	13	26	8.2	39	2.9	8.5	7.7	21	132	.78
8	.85	2.6	8.8	13	7.8	132	3.1	7.2	6.8	9.6	175	.98
9	8.3	15	49	9.9	7.4	52	3.1	86	7.3	6.8	77	1.0
10	2.5	19	91	8.7	7.5	39	3.2	29	5.5	5.2	26	1.0
11	1.5	6.2	43	43	7.7	30	3.3	17	13	4.4	16	1.0
12	1.4	4.4	26	30	7.3	24	29	13	21	3.3	11	1.1
13	6.1	3.6	19	20	6.0	18	8.4	48	8.3	2.5	8.3	3.0
14	3.9	3.2	15	97	5.6	15	5.7	90	6.7	1.8	6.1	2.3
15	2.4	5.3	12	69	162	13	5.1	33	5.9	1.5	4.9	1.7
16	2.0	43	53	36	113	11	4.4	31	4.8	2.2	23	35
17	1.7	11	36	25	48	9.6	6.7	486	4.3	2.2	9.5	15
18	2.4	7.2	21	19	33	8.7	5.7	595	3.9	1.2	5.2	4.7
19	67	5.2	15	20	25	8.2	4.6	242	3.0	1.2	3.9	2.7
20	11	4.2	12	17	20	10	16	92	3.2	1.2	6.2	12
21	6.1	11	11	14	17	10	71	61	3.4	.99	6.3	5.4
22	4.4	5.4	8.9	12	14	7.7	17	42	6.2	37	2.9	3.0
23	3.7	4.4	8.1	11	13	7.1	35	29	4.4	54	1.9	2.1
24	2.9	3.7	7.2	9.5	12	6.2	37	21	5.1	33	1.6	1.5
25	2.3	5.2	6.7	8.4	10	5.3	18	38	3.9	10	1.4	1.2
26	2.3	5.2	6.0	7.7	10	4.9	12	18	3.5	6.7	1.3	1.0
27	1.5	41	5.1	7.8	9.6	6.5	9.8	34	2.8	27	1.1	1.0
28	1.8	36	5.0	127	9.5	5.5	8.1	63	12	8.0	1.1	.73
29	2.3	12	4.8	50	---	4.8	7.1	25	17	4.8	1.0	.68
30	2.5	8.1	4.6	31	---	4.5	6.8	19	9.4	3.4	1.3	.68
31	2.7	---	4.4	23	---	3.9	---	14	---	2.4	1.4	---
TOTAL	149.14	296.7	637.9	800.3	630.5	558.8	344.3	2295.7	277.6	440.79	691.5	105.69
MEAN	4.81	9.89	20.6	25.8	22.5	18.0	11.5	74.1	9.25	14.2	22.3	3.52
MAX	67	43	91	127	162	132	71	595	30	133	175	35
MIN	.48	2.4	4.4	3.6	5.6	3.9	2.9	7.2	2.8	.99	1.0	.68
CFSM	.25	.52	1.09	1.37	1.19	.95	.61	3.92	.49	.75	1.18	.19
IN.	.29	.58	1.26	1.58	1.24	1.10	.68	4.52	.55	.87	1.36	.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1995, BY WATER YEAR (WY)

MEAN	8.18	16.6	26.8	33.2	43.5	49.2	38.6	29.6	18.9	16.6	11.2	9.18
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1944 - 1995	
ANNUAL TOTAL	6425.61		7228.92			
ANNUAL MEAN	17.6		19.8		25.1	
HIGHEST ANNUAL MEAN					49.2	1979
LOWEST ANNUAL MEAN					3.76	1954
HIGHEST DAILY MEAN	247	Jan 28	595	May 18	2000	Mar 9 1964
LOWEST DAILY MEAN	.46	Aug 28	.48	Oct 7	.00	Aug 27 1952
ANNUAL SEVEN-DAY MINIMUM	.76	Oct 2	.76	Oct 2	.00	Sep 28 1952
INSTANTANEOUS PEAK FLOW			1220	May 17	5200	Apr 2 1970
INSTANTANEOUS PEAK STAGE			6.13	May 17	8.30	Apr 2 1970
INSTANTANEOUS LOW FLOW			.48	Oct 7	.00	Aug 27 1952
ANNUAL RUNOFF (CFSM)	.93		1.05		1.33	
ANNUAL RUNOFF (INCHES)	12.65		14.23		18.01	
10 PERCENT EXCEEDS	43		43		53	
50 PERCENT EXCEEDS	8.1		7.5		9.9	
90 PERCENT EXCEEDS	1.4		1.4		1.9	

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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
11...	1005	1.4	553	6.9	12.0	7.9
NOV						
07...	1015	2.2	467	6.7	13.5	10.0
DEC						
12...	1115	26	613	7.4	8.0	12.1
JAN						
10...	1210	8.8	741	7.9	7.0	14.2
FEB						
06...	1050	8.5	594	6.7	4.0	14.5
MAR						
13...	1020	18	510	6.8	12.0	15.2
APR						
10...	1115	3.0	488	6.7	16.0	10.9
MAY						
09...	1010	200	234	6.5	19.0	8.5
JUL						
10...	1030	5.3	583	6.9	26.0	8.9
SEP						
18...	0945	5.0	477	7.3	17.5	7.6

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 mi^2.
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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
05...	0850	1.1	598	7.2	14.0	4.5
NOV						
08...	0945	1.9	475	6.5	11.5	5.5
DEC						
07...	0945	18	618	7.5	13.5	--
JAN						
11...	0930	14	475	6.9	8.5	9.5
FEB						
13...	1010	6.5	713	6.1	0.5	15.5
MAR						
08...	0940	3.3	358	6.2	5.5	12.8
APR						
05...	0935	139	580	6.3	9.5	7.4
MAY						
11...	0935	19	575	7.0	15.5	8.1
JUL						
10...	0825	5.6	536	6.9	23.0	4.6
SEP						
18...	0820	6.2	378	7.3	18.5	5.7

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 mi^2.
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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
05...	1045	0.64	663	7.2	14.0	9.2
NOV						
08...	1110	1.6	606	6.5	12.5	11.0
Dec						
07...	1115	6.6	798	7.6	13.0	9.3
JAN						
11...	0808	5.4	775	7.4	7.5	10.8
FEB						
13...	1140	2.9	781	6.3	4.5	14.4
MAR						
08...	1100	37	433	6.4	6.5	12.5
APR						
05...	1050	1.1	576	7.5	7.0	11.5
MAY						
11...	1045	7.9	722	7.1	14.5	9.0
JUL						
13...	0815	0.75	630	7.5	23.5	6.2
SEP						
21...	0810	1.8	631	7.3	17.5	6.7

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 mi^2, approximately.

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

REVISED RECORDS.--WSP 893: 1939.

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: June 23 to July 7. Records fair except for estimated periods and those below 20,000 ft^3/s, which are poor. Flow

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	27800	15700	84400	33400	127000	126000	50400	75200	122000	123000	13000	16000
2	29100	34600	76900	27600	112000	157000	48400	79800	117000	118000	15800	13300
3	35700	56100	58800	29800	107000	187000	35600	131000	130000	115000	31000	10900
4	34000	46900	51300	38000	112000	194000	33500	181000	129000	96400	17300	10800
5	32200	37200	71600	38000	110000	185000	37600	193000	130000	68100	9700	13500
6	29600	31600	73200	37300	126000	160000	40900	169000	142000	63200	103000	14000
7	20300	45500	106000	45500	128000	147000	50600	141000	129000	46700	150000	11400
8	18700	33800	112000	104000	92600	214000	51700	132000	98900	39600	141000	16800
9	23000	30800	118000	151000	69800	277000	62700	116000	74700	28400	127000	15500
10	17000	45800	125000	157000	75000	294000	52100	128000	78700	28300	111000	6200
11	20500	52300	147000	127000	58700	301000	71900	132000	96500	35200	118000	12600
12	19800	46700	197000	104000	60500	293000	87100	149000	89100	12900	94000	12400
13	18100	39100	215000	109000	56800	279000	102000	170000	136000	14800	90700	12300
14	15000	52000	203000	107000	31200	272000	110000	206000	187000	22900	63700	21700
15	21200	45300	166000	123000	57200	260000	113000	249000	198000	19100	34300	18000
16	20700	48100	132000	193000	141000	236000	113000	308000	160000	24500	36000	13500
17	20300	44300	115000	271000	202000	204000	95000	358000	95600	40300	36800	16700
18	22900	35000	100000	346000	245000	164000	90800	402000	43100	26000	19300	24700
19	22800	30000	91400	369000	282000	130000	80900	442000	51400	34900	13000	11200
20	22100	25400	85100	351000	277000	107000	69900	454000	44900	25700	29100	19800
21	20000	30400	81700	319000	239000	93000	99000	465000	34300	17400	25100	18100
22	18500	33800	71000	297000	195000	91300	139000	465000	44400	21500	30300	17700
23	20100	40900	58200	293000	172000	83100	127000	445000	51400	19500	17400	16500
24	24800	42100	59300	278000	155000	86000	121000	384000	68400	17200	15800	15500
25	21000	45100	54100	249000	146000	92800	152000	334000	81100	24200	16000	19600
26	20900	42600	42400	203000	134000	89300	167000	315000	77200	18900	26000	14900
27	21300	37300	43400	172000	131000	72600	153000	234000	85700	18300	16300	17700
28	24900	40600	38800	159000	126000	63800	123000	179000	85200	39700	7100	17600
29	23000	61500	30700	154000	---	54200	104000	180000	106000	45600	16800	20000
30	20500	87700	39300	161000	---	54900	89300	169000	121000	41700	17200	21200
31	21200	---	40900	155000	---	57600	---	134000	---	23600	16600	---
TOTAL	707000	1258200	2888500	5201600	3768800	5025600	2671400	7520000	3007600	1270600	1458300	470100
MEAN	22810	41940	93180	167800	134600	162100	89050	242600	100300	40990	47040	15670
MAX	35700	87700	215000	369000	282000	301000	167000	465000	198000	123000	150000	24700
MIN	15000	15700	30700	27600	31200	54200	33500	75200	34300	12900	7100	6200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1995, BY WATER YEAR (WY)

MEAN	37230	68620	122900	165900	194100	243200	205800	141100	82420	55520	44100	32960
MAX	153500	245900	321300	595800	430400	524300	403300	330000	234400	163400	151300	166600
(WY)	1980	1986	1973	1937	1939	1945	1948	1983	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1929 - 1995	
ANNUAL TOTAL	51076800		35247700			
ANNUAL MEAN	139900		96570		115800	
HIGHEST ANNUAL MEAN					176700	1979
LOWEST ANNUAL MEAN					57390	1954
HIGHEST DAILY MEAN	479000	Mar 14	465000	May 21	1110000	Jan 27 1937
LOWEST DAILY MEAN	14600	Aug 13	6200	Sep 10	2100	Aug 12 1930
ANNUAL SEVEN-DAY MINIMUM	18900	Oct 8	12500	Sep 7	3530	Oct 15 1930
INSTANTANEOUS PEAK FLOW					1110000	Jan 27 1937
INSTANTANEOUS PEAK STAGE			55.94	May 22	85.44	Jan 27 1937
10 PERCENT EXCEEDS	401000		209000		279000	
50 PERCENT EXCEEDS	60100		68100		71600	
90 PERCENT EXCEEDS	22800		17300		16600	

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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
04...	1120	0.85	615	8.6	16.5	15.2
NOV						
01...	1120	0.68	639	7.9	11.5	14.2
DEC						
06...	1135	3.4	374	6.7	13.0	7.1
JAN						
09...	1200	1.4	700	6.7	2.0	12.7
FEB						
02...	1205	1.6	609	6.5	5.0	11.0
MAR						
20...	1035	1.3	610	6.9	15.5	14.2
APR						
04...	1150	1.0	627	6.9	13.5	14.5
MAY						
02...	1205	21	258	6.4	13.0	10.3
JUN						
27...	1220	1.0	212	7.5	26.5	9.9
SEP						
12...	1105	0.47	566	9.0	23.0	13.6

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 mi^2.
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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
04...	0950	11	786	7.6	14.5	8.2
NOV						
01...	1010	1.9	645	7.4	11.0	7.9
DEC						
06...	1000	7.4	212	6.6	12.0	7.9
JAN						
09...	1015	3.6	425	6.7	2.0	12.1
FEB						
02...	1010	3.0	356	6.3	5.0	11.9
MAR						
20...	0930	1.6	524	6.5	14.0	8.7
APR						
04...	1035	2.2	560	6.9	12.5	8.9
MAY						
02...	1050	33	176	6.4	11.5	8.4
JUN						
27...	1050	2.8	658	7.4	23.5	6.3
SEP						
12...	1010	0.96	772	8.0	24.0	6.8

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 mi^2.

PERIOD OF RECORD.--May 1989 to current year.

GAGE.--Water-stage recorder. Datum of gage undetermined.

REMARKS.--Estimated daily discharges: Oct. 1-4, 15-19, Nov. 18-21, 26, Dec. 6, 8, 9, 31, Jan. 1-4, 15, Feb. 3-7. Records poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	2.6	4.9	75	27	330	105	50	233	414	39	5.3	3.0
2	2.2	4.4	60	25	260	99	45	693	1260	84	4.9	2.4
3	1.9	3.9	40	23	218	83	42	444	1240	122	4.0	1.9
4	1.5	4.2	35	21	196	74	39	263	778	66	3.5	1.5
5	1.1	4.0	20	19	171	75	35	214	467	72	7.3	1.3
6	1.7	4.2	110	255	160	151	33	173	301	66	201	1.2
7	2.8	4.6	206	1800	146	422	31	144	181	40	649	1.2
8	3.3	4.2	40	655	138	6820	30	120	120	28	1870	1.3
9	4.3	4.3	30	402	125	7260	34	534	150	22	507	1.8
10	4.7	6.9	837	274	134	2930	35	940	292	16	285	2.4
11	5.7	15	1680	305	108	1790	30	473	153	13	162	2.8
12	5.4	18	569	509	93	1250	162	319	809	12	89	3.3
13	6.5	15	329	385	85	854	109	575	628	11	57	3.6
14	9.0	21	203	327	81	588	62	3160	339	9.0	37	2.8
15	14	55	145	2000	1010	398	53	1610	175	8.6	26	3.1
16	10	93	122	995	2530	215	42	743	112	8.5	19	6.0
17	8.0	194	399	625	1390	163	42	2870	79	28	15	30
18	6.0	300	299	437	626	139	40	7920	60	21	13	14
19	5.0	420	206	319	439	122	34	3680	54	10	11	8.1
20	31	435	155	287	330	114	72	872	44	6.7	11	36
21	20	350	125	249	247	112	754	502	40	5.5	12	22
22	9.9	259	102	191	192	116	495	346	45	5.1	7.9	13
23	5.7	210	90	155	152	107	408	233	49	6.2	6.6	9.0
24	4.3	187	78	129	145	96	952	167	37	26	5.5	6.1
25	3.2	406	69	111	126	109	573	133	151	24	5.0	4.8
26	2.3	650	60	97	104	82	387	116	248	13	4.6	4.3
27	2.1	600	51	85	91	76	272	186	165	10	4.1	3.9
28	3.0	350	45	2020	102	74	211	266	130	28	3.6	3.9
29	3.6	220	40	1610	---	73	179	431	72	16	3.3	3.6
30	4.2	150	35	582	---	66	158	211	50	9.5	3.1	2.9
31	5.0	---	31	392	---	57	---	110	---	6.5	3.4	---
TOTAL	190.0	4993.6	6286	15311	9729	24620	5409	28681	8643	832.6	4036.1	201.2
MEAN	6.13	166	203	494	347	794	180	925	288	26.9	130	6.71
MAX	31	650	1680	2020	2530	7260	952	7920	1260	122	1870	36
MIN	1.1	3.9	20	19	81	57	30	110	37	5.1	3.1	1.2
CFSM	.04	.97	1.18	2.87	2.02	4.62	1.05	5.38	1.67	.16	.76	.04
IN.	.04	1.08	1.36	3.31	2.10	5.32	1.17	6.20	1.87	.18	.87	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1995, BY WATER YEAR (WY)

MEAN	82.3	171	437	494	483	510	206	322	217	97.1	73.3	40.4
MAX	262	359	1360	675	642	797	409	925	517	221	137	124
(WY)	1991	1994	1991	1994	1991	1994	1994	1995	1992	1992	1992	1989
MIN	6.13	11.4	123	344	169	99.9	105	118	23.6	6.72	7.25	5.84
(WY)	1995	1992	1990	1993	1992	1990	1992	1991	1994	1993	1993	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1989 - 1995	
ANNUAL TOTAL	98525.7		108932.5			
ANNUAL MEAN	270		298		258	
HIGHEST ANNUAL MEAN					335	1991
LOWEST ANNUAL MEAN					181	1993
HIGHEST DAILY MEAN	6490	Mar 10	7920	May 18	9220	Dec 18 1990
LOWEST DAILY MEAN	1.1	Oct 5	1.1	Oct 5	.86	Jul 31 1993
ANNUAL SEVEN-DAY MINIMUM	1.7	Sep 20	1.5	Sep 3	1.5	Sep 3 1995
INSTANTANEOUS PEAK FLOW			10700	May 18	11600	Dec 18 1990
INSTANTANEOUS PEAK STAGE			10.44	May 18	10.75	Feb 21 1993
ANNUAL RUNOFF (CFSM)	1.57		1.74		1.50	
ANNUAL RUNOFF (INCHES)	21.31		23.56		20.35	
10 PERCENT EXCEEDS	654		627		547	
50 PERCENT EXCEEDS	73		78		79	
90 PERCENT EXCEEDS	4.1		3.9		6.3	

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 mi^2

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: Oct. 20, 21, Nov. 17, Dec. 4, Jan. 4-11, Jan. 23-27, Feb. 3-14, May 2, 28, June 2, 11, and 12. Records good except those for estimated daily discharges, which are fair. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	.08	1.7	23	38	562	162	50	78	158	34	9.3	2.6
2	.41	1.2	14	35	436	138	47	575	641	29	7.3	2.4
3	.74	.91	8.3	33	330	124	43	461	443	27	5.9	2.0
4	.72	.66	41	28	256	116	40	295	261	30	4.7	2.0
5	.54	.64	143	27	192	124	36	226	174	360	34	2.4
6	.50	1.4	214	26	138	194	35	185	129	660	328	2.7
7	.42	1.7	112	409	124	492	33	145	99	244	239	2.7
8	.34	2.0	64	288	120	4050	32	116	77	141	2770	2.8
9	.60	2.4	53	179	107	2190	33	533	63	93	915	2.7
10	.50	3.4	408	116	87	1470	31	1290	53	64	443	2.8
11	.43	3.4	1070	117	71	1080	42	709	69	48	255	2.6
12	.26	4.0	426	229	64	752	56	436	671	38	162	2.8
13	.34	3.8	224	350	57	526	71	556	428	30	109	2.9
14	.40	7.0	153	334	85	386	83	3400	250	24	78	2.9
15	.45	6.0	114	1300	733	306	59	2010	162	19	58	2.6
16	.47	12	104	1170	3330	253	48	1050	111	15	45	3.7
17	.65	17	398	780	1550	213	42	2740	82	14	36	6.4
18	.72	25	478	545	979	177	39	9040	62	14	29	21
19	4.2	16	269	411	679	152	39	6700	49	11	25	21
20	7.2	11	185	388	519	138	40	1900	41	8.5	19	13
21	31	7.1	142	370	419	137	211	1090	36	6.6	15	8.1
22	10	4.7	116	312	332	130	337	702	86	8.7	13	5.5
23	4.3	3.2	97	256	287	108	178	465	59	11	11	5.4
24	3.1	3.2	83	211	251	93	331	332	40	28	8.5	5.2
25	2.0	2.6	73	174	211	82	333	248	33	44	7.7	4.4
26	1.1	1.9	62	138	189	73	212	254	28	38	7.4	4.0
27	1.6	7.0	55	123	175	68	153	216	35	25	6.5	4.3
28	2.3	20	50	1900	175	67	118	371	35	20	5.5	4.3
29	1.8	89	46	3100	---	66	94	704	37	18	4.6	3.7
30	1.8	41	43	1310	---	59	76	296	35	15	4.1	3.0
31	2.0	---	41	807	---	53	---	194	---	12	3.3	---
TOTAL	80.97	300.91	5309.3	15504	12458	13979	2942	37317	4447	2129.8	5658.8	151.9
MEAN	2.61	10.0	171	500	445	451	98.1	1204	148	68.7	183	5.06
MAX	31	89	1070	3100	3330	4050	337	9040	671	660	2770	21
MIN	.08	.64	8.3	26	57	53	31	78	28	6.6	3.3	2.0
CFSM	.01	.04	.66	1.93	1.72	1.74	.38	4.65	.57	.27	.70	.02
IN.	.01	.04	.76	2.23	1.79	2.01	.42	5.36	.64	.31	.81	.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1995, BY WATER YEAR (WY)

MEAN	37.3	196	461	497	789	568	437	470	209	81.1	55.4	12.6
MAX	240	586	1806	801	1984	838	801	1912	598	219	291	57.1
(WY)	1991	1986	1991	1990	1989	1993	1989	1983	1992	1989	1992	1992
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1981 - 1995	
ANNUAL TOTAL	104524.18		100278.68			
ANNUAL MEAN	286		275		316	
HIGHEST ANNUAL MEAN					454	1990
LOWEST ANNUAL MEAN					201	1988
HIGHEST DAILY MEAN	3320	Feb 23	9040	May 18	20700	Feb 16 1990
LOWEST DAILY MEAN	.08	Oct 1	.08	Oct 1	.00	Aug 19 1983
ANNUAL SEVEN-DAY MINIMUM	.41	Oct 10	.41	Oct 10	.00	Aug 19 1983
INSTANTANEOUS PEAK FLOW			11300	May 18	26200	Feb 16 1990
INSTANTANEOUS PEAK STAGE			19.55	May 18	27.55	Feb 16 1990
INSTANTANEOUS LOW FLOW			.08	Oct 1	.08	Oct 1 1994
ANNUAL RUNOFF (CFSM)	1.11		1.06		1.22	
ANNUAL RUNOFF (INCHES)	15.01		14.40		16.57	
10 PERCENT EXCEEDS	835		567		750	
50 PERCENT EXCEEDS	33		58		82	
90 PERCENT EXCEEDS	1.3		2.4		1.1	

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 mi^2. (revised)

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

GAGE.--Water-stage recorder. Datum of gage is 599.892 ft above sea level.

REMARKS.--Estimated daily discharges: Dec. 24 to Jan. 6, 20-27, Feb. 4-14, and Apr. 9-17. Records good except for periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	2.5	5.1	8.3	14	76	38	12	28	61	29	.46	1.4
2	2.1	4.9	7.2	14	65	36	12	148	55	14	.41	1.3
3	1.7	4.7	6.8	13	56	34	12	82	66	9.3	.40	1.4
4	.98	4.7	92	13	47	33	12	50	48	46	.44	1.3
5	.70	4.8	322	12	42	54	13	42	35	1260	29	1.2
6	.48	5.9	60	12	38	110	13	35	28	355	289	1.1
7	.46	7.6	38	197	35	218	13	30	23	82	239	.92
8	.55	7.4	29	68	31	1710	15	26	20	42	1030	.88
9	.75	7.5	100	40	28	325	17	409	29	26	115	.87
10	.81	15	442	38	26	140	28	174	19	18	46	1.9
11	.77	11	341	159	24	79	45	59	16	13	22	2.0
12	.83	8.4	75	334	23	53	70	38	40	9.6	13	1.8
13	1.2	7.1	48	110	21	40	50	482	25	6.3	8.8	1.8
14	1.3	6.4	38	208	20	32	33	815	17	4.8	6.3	1.6
15	1.3	6.9	32	628	1120	28	23	164	13	4.1	5.0	1.4
16	1.4	23	92	178	1250	25	18	70	10	4.1	4.4	1.8
17	1.5	20	341	96	247	22	17	1700	8.7	4.0	3.5	3.8
18	1.3	13	82	70	127	19	16	2810	9.9	3.3	3.1	1.7
19	12	11	51	61	91	18	15	1760	9.4	2.4	2.6	.61
20	9.4	11	40	54	74	18	16	316	8.3	1.8	2.6	.86
21	4.8	11	35	48	63	19	203	168	7.7	4.1	4.7	2.5
22	4.5	11	31	45	54	17	67	117	18	3.5	3.3	.89
23	4.6	10	28	41	52	16	42	85	11	15	1.9	.39
24	5.4	9.0	25	38	47	15	138	69	7.6	70	1.2	.25
25	5.5	9.6	22	37	42	13	63	645	25	20	.92	.13
26	4.7	10	21	35	41	13	42	247	9.5	9.0	.95	.11
27	4.1	17	20	34	39	13	34	101	9.9	4.9	1.0	.11
28	4.0	48	18	2150	40	13	29	1190	11	2.4	1.1	.11
29	4.4	19	17	572	---	13	26	298	39	1.4	1.3	.31
30	4.6	11	16	169	---	12	24	114	101	.80	1.4	.42
31	4.8	---	15	101	---	12	---	72	---	.57	1.3	---
TOTAL	93.43	341.0	2493.3	5589	3819	3188	1118	12344	781.0	2066.37	1840.08	34.86
MEAN	3.01	11.4	80.4	180	136	103	37.3	398	26.0	66.7	59.4	1.16
MAX	12	48	442	2150	1250	1710	203	2810	101	1260	1030	3.8
MIN	.46	4.7	6.8	12	20	12	12	26	7.6	.57	.40	.11
CFSM	.04	.14	1.01	2.26	1.71	1.29	.47	4.98	.33	.83	.74	.01
IN.	.04	.16	1.16	2.60	1.78	1.48	.52	5.75	.36	.96	.86	.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

MEAN	9.92	52.1	87.4	202	144	198	119	151	61.9	27.9	49.6	5.47
MAX	26.3	118	120	298	202	265	182	398	156	66.7	103	14.0
(WY)	1994	1994	1992	1994	1993	1992	1994	1995	1993	1995	1993	1992
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1991 - 1995	
ANNUAL TOTAL	32861.73		33708.04			
ANNUAL MEAN	90.0		92.4		95.1	
HIGHEST ANNUAL MEAN					105	1993
LOWEST ANNUAL MEAN					79.5	1992
HIGHEST DAILY MEAN	2230	Jan 28	2810	May 18	2810	May 18 1995
LOWEST DAILY MEAN	.24	Aug 2	.11	Sep 26	.11	Sep 26 1995
ANNUAL SEVEN-DAY MINIMUM	.35	Aug 19	.20	Sep 23	.17	Jul 16 1991
INSTANTANEOUS PEAK FLOW			4640	Jan 28	4730	Mar 19 1992
INSTANTANEOUS PEAK STAGE			15.45	Jan 28	16.40	Mar 19 1992
ANNUAL RUNOFF (CFSM)	1.13		1.16		1.19	
ANNUAL RUNOFF (INCHES)	15.30		15.69		16.18	
10 PERCENT EXCEEDS	215		168		174	
50 PERCENT EXCEEDS	16		18		21	
90 PERCENT EXCEEDS	.72		1.2		.87	

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 mi^2.

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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
NOV						
09...	1000	0.002	683	7.3	16.0	8.8
DEC						
14...	1210	5.8	487	7.5	3.0	12.9
JAN						
18...	0810	19	454	7.5	5.5	11.6
FEB						
16...	0855	200	278	5.7	3.0	12.5
MAR						
15...	0830	9.3	447	6.7	10.0	10.3
APR						
12...	0840	12	441	6.6	13.5	8.2
MAY						
16...	0845	37	429	7.3	17.0	9.2
JUL						
06...	0840	57	357	6.7	21.5	7.4

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 mi^2.

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: Jan. 1-5, Jan. 31, Feb. 6-15, July 18-21, and July 31 to Aug. 4. Records good except for estimated daily discharges, and the period July 11-Sept. 27 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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	3.1	3.3	23	157	53	31	73	114	64	10	8.7
2	5.2	4.1	1.3	22	130	48	28	592	96	37	8.0	8.0
3	2.6	3.8	.77	21	107	45	27	240	92	24	7.0	7.4
4	1.6	3.2	87	20	95	43	26	131	82	70	10	7.1
5	1.3	2.9	416	19	85	61	25	99	56	2020	91	6.6
6	.89	3.3	48	42	76	176	24	77	45	660	515	5.1
7	.48	5.2	15	371	68	389	27	59	38	183	691	4.6
8	.18	3.9	6.6	369	61	2850	24	50	33	92	2120	4.7
9	.36	3.0	33	202	54	751	24	689	35	56	360	5.7
10	.41	13	619	87	48	405	38	535	33	41	163	5.5
11	.09	13	813	183	42	267	30	188	28	32	92	5.2
12	.68	9.0	184	614	37	190	61	117	34	26	60	4.6
13	1.7	5.6	105	229	33	146	100	615	44	21	43	3.8
14	1.6	3.6	73	315	29	119	54	2270	32	17	34	3.7
15	1.3	2.5	57	1240	1400	101	42	511	25	15	28	2.8
16	1.3	14	103	389	2360	87	37	237	22	15	78	2.4
17	1.7	23	631	208	502	74	35	2970	17	15	31	11
18	1.6	11	213	146	267	63	34	5000	15	13	23	6.9
19	18	5.0	117	118	192	56	34	3160	16	11	19	4.4
20	25	2.4	83	113	151	54	36	611	14	8.0	16	4.2
21	17	1.5	65	105	121	61	343	307	14	11	16	5.0
22	7.6	1.4	54	84	97	54	208	204	20	15	15	3.8
23	4.9	1.1	48	71	89	48	132	142	25	34	12	3.1
24	5.1	.93	43	64	80	45	343	109	20	85	10	2.8
25	5.1	1.1	39	57	65	41	187	609	16	71	9.1	2.7
26	4.4	1.2	35	51	59	38	111	471	28	36	8.0	1.5
27	4.3	6.5	32	53	56	37	83	165	19	37	7.5	1.4
28	4.0	55	30	2920	55	38	64	1840	16	27	8.6	1.4
29	3.6	28	28	1330	---	37	52	612	31	16	8.6	1.7
30	2.7	8.7	27	367	---	39	47	222	132	14	8.4	1.9
31	2.6	---	25	205	---	33	---	145	---	12	7.7	---
TOTAL	134.09	240.03	4034.97	10038	6516	6449	2307	23050	1192	3778.0	4509.9	137.7
MEAN	4.33	8.00	130	324	233	208	76.9	744	39.7	122	145	4.59
MAX	25	55	813	2920	2360	2850	343	5000	132	2020	2120	11
MIN	.09	.93	.77	19	29	33	24	50	14	8.0	7.0	1.4
CFSM	.03	.06	.94	2.35	1.69	1.51	.56	5.39	.29	.88	1.05	.03
IN.	.04	.06	1.09	2.71	1.76	1.74	.62	6.21	.32	1.02	1.22	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1995, BY WATER YEAR (WY)

MEAN	32.9	108	228	286	368	387	281	206	109	62.8	46.6	38.7
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1944 - 1995	
ANNUAL TOTAL	59953.99		62386.69			
ANNUAL MEAN	164		171		179	
HIGHEST ANNUAL MEAN					382	1979
LOWEST ANNUAL MEAN					29.0	1954
HIGHEST DAILY MEAN	3900	Jan 28	5000	May 18	15400	Mar 9 1964
LOWEST DAILY MEAN	.09	Oct 11	.09	Oct 11	.00	Sep 7 1945
ANNUAL SEVEN-DAY MINIMUM	.44	Oct 6	.44	Oct 6	.00	Sep 7 1945
INSTANTANEOUS PEAK FLOW			7050	May 18	28500	Apr 2 1970
INSTANTANEOUS PEAK STAGE			11.04	May 18	16.15	Apr 2 1970
INSTANTANEOUS LOW FLOW			.09	Oct 11	.00	Sep 7 1945
ANNUAL RUNOFF (CFSM)	1.19		1.24		1.29	
ANNUAL RUNOFF (INCHES)	16.16		16.82		17.59	
10 PERCENT EXCEEDS	441		370		354	
50 PERCENT EXCEEDS	18		35		33	
90 PERCENT EXCEEDS	1.4		2.8		.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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
12...	1115	0.97	533	7.0	13.0	9.3
NOV						
09...	1115	2.3	578	7.2	14.0	8.3
DEC						
14...	1100	81	486	7.6	3.5	12.1
JAN						
17...	0925	203	462	7.2	6.0	12.0
FEB						
14...	0900	29	450	7.7	1.0	13.7
MAR						
14...	0915	159	377	6.9	10.5	10.1
APR						
11...	0915	48	522	7.0	17.0	7.2
MAY						
17...	1130	4640	265	6.5	20.0	6.9
JUL						
11...	1225	28	458	7.7	25.0	6.2
SEP						
20...	1215	3.4	573	6.4	19.5	7.3

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 mi^2.
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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
12...	0925	0.35	679	7.0	11.0	8.3
NOV						
09...	0815	0.34	689	6.7	15.0	7.3
DEC						
14...	0925	2.3	596	7.6	4.5	11.2
JAN						
17...	0825	5.2	652	7.3	7.5	9.6
FEB						
15...	0840	38	301	7.0	4.0	12.5
MAR						
14...	0820	3.7	455	5.8	8.5	10.0
APR						
11...	0755	0.10	600	6.3	14.0	6.0
MAY						
17...	0815	150	236	6.3	17.5	7.5
JUL						
11...	1110	0.10	650	7.8	25.0	7.9
SEP						
20...	1055	4.8	632	6.8	20.0	7.1

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 mi^2.

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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
12...	0820	2.6	731	6.9	9.5	10.1
NOV						
10...	1120	14	409	7.6	14.0	11.2
DEC						
14...	0820	9.1	652	7.2	3.5	12.1
JAN						
17...	1135	20	618	8.4	8.0	13.6
FEB						
14...	1145	6.8	419	8.4	3.5	16.2
MAR						
14...	1215	13	568	8.5	16.5	16.1
APR						
11...	1135	16	662	8.6	17.5	17.5
MAY						
17...	1010	739	226	6.3	18.0	7.7
JUL						
11...	1010	3.4	670	8.0	23.5	10.2
SEP						
20...	1005	12	680	7.6	20.0	8.0

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 mi^2.

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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
13...	0825	5.4	663	7.1	13.0	8.1
NOV						
15...	0815	16	568	7.0	13.0	9.6
DEC						
15...	0900	97	514	7.5	2.5	13.2
JAN						
17...	1320	330	478	7.5	7.0	11.8
FEB						
14...	1040	47	628	8.0	1.5	12.9
MAR						
14...	1030	233	503	7.0	12.0	10.6
APR						
11...	1030	45	520	6.6	17.5	8.7
MAY						
17...	1440	6050	254	6.6	20.5	7.3
JUL						
11...	0840	50	451	7.7	24.0	5.6
SEP						
20...	0840	13	493	7.5	19.5	7.1

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 mi^2.

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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
13...	1140	3.0	780	6.9	14.0	8.5
NOV						
15...	1035	2.5	787	6.9	14.5	8.8
DEC						
15...	1335	4.7	731	7.6	7.0	11.6
JAN						
18...	1215	11	680	7.3	9.0	11.4
FEB						
15...	1120	64	432	7.2	4.5	11.3
MAR						
15...	1150	7.7	636	6.6	13.5	16.4
APR						
12...	1225	9.4	520	6.4	15.5	10.6
MAY						
10...	1015	20	586	6.9	17.5	8.0
JUL						
05...	1040	42	310	6.0	22.5	6.6
SEP						
13...	1135	1.1	819	7.6	22.0	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 mi^2.

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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
13...	0925	1.4	758	6.7	13.0	7.6
NOV						
15...	0935	2.3	727	7.3	13.0	7.8
DEC						
15...	1025	5.9	696	7.9	3.5	14.1
JAN						
18...	1010	15	625	7.4	7.5	10.7
FEB						
15...	1005	--	310	6.8	3.5	12.8
MAR						
15...	1055	--	601	7.1	12.0	13.9
APR						
12...	1120	16	771	6.4	15.5	11.0
MAY						
10...	0840	20	502	6.8	17.5	9.2
JUL						
05...	0835	145	348	6.8	21.5	6.1
SEP						
13...	1040	--	817	7.7	21.0	7.3

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 mi^2.
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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
13...	1020	0.96	665	6.5	14.5	4.9
NOV						
02...	1010	0.89	676	6.6	9.5	9.2
DEC						
15...	1200	2.8	562	6.8	6.5	9.3
JAN						
18...	1110	9.6	485	7.0	8.0	10.4
FEB						
07...	0840	4.0	532	6.5	2.0	10.9
MAR						
15...	0955	7.5	498	6.5	11.5	9.0
APR						
12...	1010	6.8	515	6.2	13.5	6.3
MAY						
03...	1010	10	479	6.7	14.5	8.8
JUN						
28...	1015	--	634	7.3	21.5	2.3
SEP						
13...	0945	--	737	7.2	22.0	2.6

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 mi^2.

PERIOD OF RECORD.--May 1938 to current year.

REVISED RECORDS.--WSP 893: 1937(M). WSP 1435: 1955: WSP 1705: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 406.58 ft above sea level. See WDR KY-90-1 for history of changes prior to Oct. 16, 1969.

REMARKS.--Estimated daily discharges: Dec. 24-Jan. 4, Jan. 12-31, and Feb. 9. Records good except for periods of estimated record, which are fair. Flow regulated since January 1983 by Taylorsville Lake (station 03295597).

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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	26	226	135	3130	594	180	951	3160	390	59	45
2	27	29	156	125	2860	553	162	3000	3480	348	52	45
3	26	29	120	115	2740	522	147	2370	3200	286	56	47
4	25	29	268	105	2600	455	133	1830	3520	258	44	40
5	24	30	2460	204	2420	463	120	1210	3280	2270	225	36
6	25	33	2190	295	1150	744	111	900	3480	2460	2510	35
7	23	41	1770	2010	636	1190	106	562	3370	1050	1010	32
8	21	183	1490	1310	593	11200	104	472	3280	549	6450	34
9	28	76	1080	881	588	7740	127	3370	3140	399	4110	35
10	32	44	2790	1450	584	4520	125	4060	2580	314	3120	39
11	38	59	4560	2170	473	4380	125	2940	2070	260	2870	44
12	38	61	2320	2800	352	3980	346	2630	2430	209	2610	42
13	39	55	1880	4000	332	3650	461	4140	2740	154	1690	44
14	39	52	1600	5800	344	3210	376	11500	2370	128	579	116
15	39	50	1440	6100	3310	3000	314	8000	1750	93	246	409
16	42	166	1500	4700	15000	2870	271	3990	860	77	207	429
17	37	248	2950	3700	7220	2790	667	10000	397	68	184	258
18	34	165	2700	3000	4040	2700	465	25100	275	62	118	106
19	148	126	1950	2400	3270	2490	348	27400	248	57	93	59
20	185	96	1260	1900	2780	753	355	16800	216	52	137	64
21	98	77	682	1500	2540	549	2970	6390	185	45	134	60
22	75	66	556	1250	2650	464	2520	4110	636	48	122	55
23	67	57	508	1050	2500	444	1850	4450	256	211	72	51
24	45	51	310	940	2380	410	3480	5210	229	239	53	44
25	34	50	280	840	2260	334	2990	4380	221	209	48	38
26	28	53	250	720	2100	286	2380	3920	476	199	44	32
27	24	146	230	640	826	277	1980	3250	304	283	43	28
28	21	683	205	4500	620	280	1740	4340	232	179	41	26
29	21	437	180	5400	---	252	1580	4810	333	120	41	25
30	23	322	160	3700	---	233	848	3440	412	90	42	25
31	25	---	150	3000	---	210	---	3290	---	72	45	---
TOTAL	1362	3540	38221	66740	70298	61543	27381	178815	49130	11179	27055	2343
MEAN	43.9	118	1233	2153	2511	1985	913	5768	1638	361	873	78.1
MAX	185	683	4560	6100	15000	11200	3480	27400	3520	2460	6450	429
MIN	21	26	120	105	332	210	104	472	185	45	41	25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1995, BY WATER YEAR (WY)

MEAN	254	1083	2009	2421	4214	2884	2019	1749	993	421	299	181
MAX	1166	2206	6329	5728	12370	5264	3506	5768	2793	871	1018	398
(WY)	1991	1994	1991	1991	1989	1989	1989	1995	1992	1991	1992	1990
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1984 - 1995	
ANNUAL TOTAL	594008		537607			
ANNUAL MEAN	1627		1473		1529	
HIGHEST ANNUAL MEAN					2571	1989
LOWEST ANNUAL MEAN					995	1986
HIGHEST DAILY MEAN	21600	Jan 28	27400	May 19	39100	Feb 16 1990
LOWEST DAILY MEAN	21	Oct 8	21	Oct 8	7.7	Jul 1 1988
ANNUAL SEVEN-DAY MINIMUM	24	Oct 26	24	Oct 26	9.3	Jun 26 1988
INSTANTANEOUS PEAK FLOW			28800	May 19	78200	Mar 10 1964
INSTANTANEOUS PEAK STAGE			28.59	May 19	41.50	Mar 11 1964
10 PERCENT EXCEEDS	4600		3670		3910	
50 PERCENT EXCEEDS	223		344		482	
90 PERCENT EXCEEDS	39		38		45	

03298550 LONG LICK NEAR CLERMONT, KY

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

DRAINAGE AREA.-- 7.91 mi^2.

PERIOD OF RECORD.--April 1, 1992 to current year.

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

REMARKS.--Estimated daily discharges: Feb. 2-11. Records good except for periods of estimted record, which are fair. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	.07	.15	.09	.40	2.9	1.1	.74	39	1.6	.62	.40	2.0
2	.03	.06	.07	.46	1.9	1.0	.46	69	1.5	.22	.41	2.1
3	.03	.19	.06	.41	1.4	1.1	.46	21	17	.23	.24	.92
4	.03	.50	15	.34	1.0	.91	.45	13	3.0	1.3	.27	.42
5	.07	.65	13	.39	.80	2.5	.55	9.4	1.6	41	14	.47
6	.04	.67	.91	12	.58	7.8	.43	6.2	1.1	4.8	13	1.3
7	.04	.57	.70	22	.45	57	.34	4.5	.76	1.5	72	.77
8	.04	.63	.51	3.8	.35	137	.38	3.2	.57	.67	46	.65
9	.07	.83	2.7	1.6	.29	38	.57	193	.72	.39	104	.50
10	.05	.68	51	1.1	.25	29	1.3	40	.65	.25	11	.35
11	.04	.56	17	8.2	.22	22	.95	21	3.7	.21	3.4	.68
12	.05	.50	1.4	15	.19	14	43	14	8.0	.16	2.2	1.0
13	.10	.65	.39	4.4	.16	7.7	15	141	1.3	.16	1.5	.93
14	.09	.46	.78	73	.20	5.1	6.2	175	.40	.16	1.2	.81
15	.07	.62	.53	57	156	3.8	3.1	49	.28	.28	.91	.98
16	.47	1.5	6.1	16	106	2.9	3.8	27	.14	.40	.75	2.2
17	.13	.21	16	6.1	33	1.8	20	127	.15	.67	.57	1.5
18	.13	.37	4.7	2.7	16	1.2	12	339	.13	.39	.39	1.5
19	1.2	.28	2.4	1.7	8.9	2.0	6.5	74	.14	.52	.29	1.4
20	.25	.29	1.5	2.0	6.2	1.5	20	29	.14	.56	.39	1.2
21	.36	.24	.94	1.7	4.0	1.3	100	17	41	.47	.42	1.0
22	.34	.24	.55	1.2	2.9	1.0	28	12	31	5.3	.48	.84
23	.30	.23	.59	.69	2.8	5.0	75	7.2	.97	7.0	.41	.56
24	.28	.21	.47	.40	2.3	3.1	63	4.4	.93	7.6	.13	.45
25	.32	.21	.57	.29	1.8	.90	27	2.2	1.0	.83	.76	.38
26	.13	.10	.57	.24	1.2	1.8	15	2.6	2.3	.76	1.5	.35
27	.18	4.3	.48	.35	1.1	2.1	9.8	2.9	1.1	.62	1.8	.33
28	.24	4.3	.48	102	1.4	2.1	6.1	14	.76	.32	1.9	.37
29	.19	.09	.46	35	---	.95	4.0	4.2	1.3	.35	1.7	.64
30	.08	.08	.47	12	---	1.1	3.4	2.1	1.6	.36	1.6	.48
31	.19	---	.40	5.0	---	.85	---	1.5	---	.40	1.9	---
TOTAL	5.61	20.37	140.82	387.47	354.29	357.61	467.53	1464.4	124.84	78.50	285.52	27.08
MEAN	.18	.68	4.54	12.5	12.7	11.5	15.6	47.2	4.16	2.53	9.21	.90
MAX	1.2	4.3	51	102	156	137	100	339	41	41	104	2.2
MIN	.03	.06	.06	.24	.16	.85	.34	1.5	.13	.16	.13	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

MEAN	1.66	3.71	4.60	16.7	17.8	23.2	17.2	19.2	6.38	1.77	2.87	.82
MAX	4.36	9.13	7.47	28.8	25.8	29.8	24.6	47.2	16.7	3.02	9.21	1.69
(WY)	1994	1994	1994	1994	1994	1994	1994	1995	1993	1992	1995	1992
MIN	.18	.68	1.78	8.87	12.7	11.5	8.82	6.69	.84	.34	.48	.29
(WY)	1995	1995	1993	1993	1995	1995	1992	1992	1994	1994	1994	1993

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1992 - 1995	
ANNUAL TOTAL	3893.73		3714.04			
ANNUAL MEAN	10.7		10.2		10.3	
HIGHEST ANNUAL MEAN					12.0	1994
LOWEST ANNUAL MEAN					8.63	1993
HIGHEST DAILY MEAN	207	Mar 27	339	May 18	339	May 18 1995
LOWEST DAILY MEAN	.03	Oct 2	.03	Oct 2	.03	Oct 2 1994
ANNUAL SEVEN-DAY MINIMUM	.04	Oct 2	.04	Oct 2	.04	Oct 2 1994
INSTANTANEOUS PEAK FLOW			1460	May 9	2080	May 7 1994
INSTANTANEOUS PEAK STAGE			8.09	May 9	8.09	May 9 1995
10 PERCENT EXCEEDS	22		24		20	
50 PERCENT EXCEEDS	.74		.97		1.6	
90 PERCENT EXCEEDS	.15		.16		.26	

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 mi^2.

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. 31 to Jan. 5, Feb. 3-14, and Aug. 27-30. Records good except for periods of estimated record, which are fair. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	1.1	.39	165	40	423	174	140	271	305	212	15	.82
2	.99	.35	97	37	354	166	130	1430	3070	356	16	.57
3	.86	.35	64	34	300	153	120	1040	3900	238	11	.47
4	.76	.35	60	32	260	141	110	524	1520	135	9.0	.40
5	.68	.31	1670	31	230	148	101	391	654	123	54	.39
6	.54	.38	1360	444	210	400	93	319	433	121	98	.42
7	.47	.41	422	5070	195	1660	88	265	322	86	70	.36
8	.40	.43	241	2060	175	11900	85	224	251	61	1510	.35
9	.60	.39	172	582	210	7570	84	608	776	49	1300	.35
10	.60	.53	745	343	240	2110	84	3200	650	39	901	.33
11	.49	.54	5250	293	200	1220	81	1260	368	32	364	.28
12	.49	.54	1850	680	175	866	133	505	1990	26	192	.27
13	.63	.54	502	501	160	645	394	2470	1350	22	119	.27
14	.69	.54	313	399	150	503	240	9850	544	18	80	.27
15	.63	.49	227	1970	253	418	159	7840	338	16	57	.23
16	.52	.89	184	2880	7550	358	127	2690	243	14	42	.55
17	.45	1.1	283	1440	4840	308	190	3430	186	14	32	1.4
18	.39	1.1	359	614	1400	268	203	12900	148	12	26	1.0
19	.86	1.5	247	408	732	235	159	13400	122	11	21	1.4
20	1.0	4.8	189	379	531	215	191	3890	106	12	17	2.2
21	.87	5.5	151	368	426	220	3260	1090	94	11	15	2.8
22	.78	4.7	127	304	346	247	2290	650	87	11	12	2.7
23	.76	3.7	109	249	292	269	844	471	87	26	10	1.6
24	.65	3.2	97	206	262	284	2860	358	91	18	8.7	1.2
25	.56	3.2	88	174	229	252	1510	283	750	23	7.5	.89
26	.49	3.6	78	148	201	205	692	563	460	28	6.5	.74
27	.45	6.2	70	133	185	182	481	508	252	22	5.0	.52
28	.44	12	63	1120	179	180	371	496	207	19	3.5	.44
29	.40	211	57	4470	---	186	299	1300	143	17	2.4	.40
30	.36	303	52	1250	---	172	251	568	103	14	1.7	.36
31	.35	---	45	585	---	155	---	323	---	12	1.0	---
TOTAL	19.26	572.03	15337	27244	20708	31810	15770	73117	19550	1798	5007.3	23.98
MEAN	.62	19.1	495	879	740	1026	526	2359	652	58.0	162	.80
MAX	1.1	303	5250	5070	7550	11900	3260	13400	3900	356	1510	2.8
MIN	.35	.31	45	31	150	141	81	224	87	11	1.0	.23
CFSM	.00	.04	1.13	2.02	1.70	2.35	1.21	5.41	1.49	.13	.37	.00
IN.	.00	.05	1.31	2.32	1.77	2.71	1.35	6.24	1.67	.15	.43	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1995, BY WATER YEAR (WY)

MEAN	184	545	1086	949	1230	1122	759	654	391	202	189	245
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1972 - 1995	
ANNUAL TOTAL	237231.66		210956.57			
ANNUAL MEAN	650		578		628	
HIGHEST ANNUAL MEAN					1243	1979
LOWEST ANNUAL MEAN					308	1977
HIGHEST DAILY MEAN	15000	Mar 10	13400	May 19	31400	Dec 9 1978
LOWEST DAILY MEAN	.31	Nov 5	.23	Sep 15	.00	Oct 8 1983
ANNUAL SEVEN-DAY MINIMUM	.35	Oct 30	.29	Sep 9	.00	Oct 23 1987
INSTANTANEOUS PEAK FLOW			17000	May 18	33300	Dec 9 1978
INSTANTANEOUS PEAK STAGE			20.93	May 18	26.16	Dec 9 1978
ANNUAL RUNOFF (CFSM)	1.49		1.33		1.44	
ANNUAL RUNOFF (INCHES)	20.24		18.00		19.56	
10 PERCENT EXCEEDS	1380		1350		1340	
50 PERCENT EXCEEDS	97		141		167	
90 PERCENT EXCEEDS	.64		.49		5.1	

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 mi^2.

PERIOD OF RECORD.--May 1938 to current year.

REVISED RECORDS.--WSP 1705: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 400.42 ft above sea level. See WDR KY-90-1 for history of changes prior to Sept. 30, 1971.

REMARKS.--Estimated daily discharges: Jan. 2-6, 20, 27, 31, Feb. 4-14, 15-22. Records good except for periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	16	15	578	229	1730	686	591	1150	1080	299	126	35
2	16	14	383	219	1400	639	550	3450	2750	285	123	47
3	15	12	257	209	1250	596	515	4690	8330	486	86	53
4	14	11	250	198	1070	558	482	2800	7690	425	61	40
5	13	11	1030	186	946	573	451	1710	2810	2060	161	38
6	12	11	3380	366	775	832	418	1300	1620	1570	506	34
7	12	11	2080	6570	622	2270	368	1060	1180	594	427	22
8	11	11	886	9710	533	12300	347	869	936	433	6450	18
9	12	13	579	4930	486	18300	331	2550	1620	323	5760	18
10	12	16	1160	1830	477	19700	327	5700	2610	256	3320	17
11	13	20	6550	1330	483	13000	323	7690	1660	219	1560	16
12	13	21	9400	1700	479	5950	386	3840	2800	189	858	15
13	13	33	3800	1980	425	2950	579	3780	3830	173	549	16
14	12	28	1330	2200	525	2160	890	14100	2310	209	386	32
15	14	24	928	4490	6510	1710	697	19200	1290	178	289	33
16	15	25	743	6280	16000	1400	550	19800	926	168	229	35
17	15	33	903	6570	21200	1190	490	16500	715	143	189	160
18	18	27	937	3840	17800	1040	628	10900	580	116	157	187
19	23	23	922	2650	9830	913	1600	18100	502	92	133	114
20	41	21	732	2270	3590	827	1230	24200	454	84	115	101
21	22	21	612	1860	2150	866	5880	23200	436	91	99	98
22	19	21	522	1450	1530	895	10300	11900	398	91	87	81
23	20	20	464	1180	1250	916	8110	4620	365	205	77	66
24	22	19	420	1000	1100	856	6830	1760	393	251	67	51
25	20	17	385	841	965	791	7580	2090	439	186	59	42
26	18	16	349	699	844	721	4100	1680	1130	156	53	36
27	15	19	315	656	759	672	2190	1440	880	139	48	33
28	15	78	289	1360	726	680	1560	1170	574	113	44	29
29	18	548	271	4910	---	746	1220	1850	448	100	40	26
30	20	828	254	6520	---	697	1010	2500	373	140	37	22
31	17	---	238	2610	---	636	---	1370	---	169	35	---
TOTAL	516	1967	40947	80843	95455	96070	60533	216969	51129	9943	22131	1515
MEAN	16.6	65.6	1321	2608	3409	3099	2018	6999	1704	321	714	50.5
MAX	41	828	9400	9710	21200	19700	10300	24200	8330	2060	6450	187
MIN	11	11	238	186	425	558	323	869	365	84	35	15
CFSM	.01	.05	1.02	2.01	2.62	2.39	1.55	5.39	1.31	.25	.55	.04
IN.	.01	.06	1.17	2.32	2.73	2.75	1.73	6.21	1.46	.28	.63	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1995, BY WATER YEAR (WY)

MEAN	306	1058	2409	2993	3874	3741	2823	1863	984	758	432	458
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1939 - 1995	
ANNUAL TOTAL	858816		678018			
ANNUAL MEAN	2353		1858		1798	
HIGHEST ANNUAL MEAN					4268	1979
LOWEST ANNUAL MEAN					473	1941
HIGHEST DAILY MEAN	28700	Mar 12	24200	May 20	64600	Feb 17 1989
LOWEST DAILY MEAN	11	Sep 22	11	Oct 8	.40	Oct 20 1939
ANNUAL SEVEN-DAY MINIMUM	11	Nov 3	11	Nov 3	.40	Oct 3 1953
INSTANTANEOUS PEAK FLOW			26200	May 20	66500	Feb 17 1989
INSTANTANEOUS PEAK STAGE			43.53	May 20	52.62	Feb 17 1989
INSTANTANEOUS LOW FLOW					.40	Oct 20 1939
ANNUAL RUNOFF (CFSM)	1.81		1.43		1.38	
ANNUAL RUNOFF (INCHES)	24.59		19.42		18.80	
10 PERCENT EXCEEDS	8690		5720		4740	
50 PERCENT EXCEEDS	349		502		496	
90 PERCENT EXCEEDS	15		18		26	

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 mi^2.

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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
14...	1145	0.22	483	7.3	16.0	8.2
NOV						
14...	1120	0.16	535	7.4	14.0	9.8
DEC						
13...	1130	2.7	505	7.9	3.5	12.9
JAN						
05...	1125	0.17	413	7.5	1.5	15.6
FEB						
09...	1055	1.5	274	6.6	1.0	17.7
MAR						
16...	1040	0.01	425	6.5	9.5	14.2
APR						
13...	1140	6.3	384	6.7	10.5	11.5
MAY						
15...	1145	42	386	7.1	17.0	10.4
JUL						
12...	1200	0.31	469	7.8	24.5	3.7
SEP						
19...	1220	0.53	437	7.7	17.0	9.8

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 mi^2 (revised).

WATER-DISCHARGE RECORDS

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

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. 6-14. Water-discharge records good except for periods of estimated record, which are fair.

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	.02	.36	.98	1.0	9.5	5.5	6.0	81	---	---	---	.80
2	.01	.32	.66	.98	8.5	5.0	5.8	84	---	---	---	.75
3	.00	.32	.48	.84	7.7	5.0	5.6	19	---	---	---	.62
4	.00	.29	26	.70	7.2	4.8	5.3	11	---	---	---	.46
5	.00	.29	24	.60	6.0	8.8	5.0	8.5	---	---	---	.34
6	.00	.40	5.7	26	5.6	16	5.0	6.5	---	---	---	.25
7	.00	.45	3.3	34	5.2	107	4.8	5.3	---	---	---	.19
8	.00	.41	2.1	10	4.9	264	4.6	4.5	---	---	---	.17
9	.00	.52	3.1	6.5	4.7	52	4.5	371	---	---	---	.13
10	.00	1.3	81	5.0	4.5	38	4.4	58	---	---	---	.12
11	.00	1.7	27	16	4.3	30	4.3	31	---	---	---	.10
12	.00	1.1	8.9	22	4.2	20	51	19	---	---	---	.86
13	.08	.80	5.8	10	4.0	15	19	359	---	---	---	4.2
14	.31	.67	4.0	114	3.9	13	11	---	---	---	---	.62
15	.29	.68	3.1	78	294	11	8.3	---	---	---	---	.26
16	.20	9.0	9.1	23	168	10	7.3	---	---	---	---	5.9
17	.12	3.1	21	13	35	8.9	8.7	---	---	---	---	11
18	.08	1.2	9.0	9.7	18	8.1	10	---	---	---	---	3.0
19	5.5	.65	5.6	8.4	13	7.9	8.4	---	---	---	---	1.3
20	2.9	.40	4.2	7.5	10	8.2	28	---	---	---	---	.80
21	1.5	.57	3.5	6.4	8.5	8.2	222	---	---	---	---	.72
22	.93	.60	2.9	5.4	7.2	7.7	33	---	---	---	---	.47
23	.79	.50	2.5	4.6	6.7	10	107	---	---	---	---	.38
24	.72	.41	2.2	4.2	5.9	9.9	77	---	---	---	---	.35
25	.61	.38	1.8	4.1	5.2	7.9	24	---	---	---	---	.31
26	.52	.38	1.6	3.8	5.1	7.1	14	---	---	---	---	.33
27	.45	8.5	1.3	3.7	5.2	7.9	9.6	---	---	---	---	.27
28	.41	14	1.1	158	6.1	8.0	7.2	---	---	---	---	.57
29	.38	3.8	1.0	40	---	7.2	5.9	---	---	---	---	.90
30	.34	1.9	.90	17	---	7.0	5.3	---	---	---	---	1.2
31	.34	---	.90	12	---	6.5	---	---	---	---	---	---
TOTAL	16.50	55.00	264.72	646.42	668.1	725.6	712.0	---	---	---	---	37.37
MEAN	.53	1.83	8.54	20.9	23.9	23.4	23.7	---	---	---	---	1.25
MAX	5.5	14	81	158	294	264	222	---	---	---	---	11
MIN	.00	.29	.48	.60	3.9	4.8	4.3	---	---	---	---	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

MEAN	1.94	7.44	13.2	31.0	36.4	41.7	20.8	16.1	14.8	2.12	1.14	.66
MAX	6.39	20.6	22.4	63.1	63.4	52.2	36.8	23.1	46.5	4.96	2.18	1.25
(WY)	1994	1994	1992	1994	1994	1993	1994	1994	1993	1992	1992	1995
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 1994 CALENDAR YEAR		WATER YEARS 1991 - 1995	
ANNUAL TOTAL	7459.13			
ANNUAL MEAN	20.4		17.8	
HIGHEST ANNUAL MEAN			23.1	1994
LOWEST ANNUAL MEAN			12.8	1992
HIGHEST DAILY MEAN	640	Feb 22	783	Feb 21 1993
LOWEST DAILY MEAN	.00	Oct 3	.00	Jul 23 1991
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 3	.00	Jul 23 1991
INSTANTANEOUS PEAK FLOW			3650	Jun 11 1993
INSTANTANEOUS PEAK STAGE			12.74	Aug 7 1995
INSTANTANEOUS LOW FLOW			.00	Jul 23 1991
10 PERCENT EXCEEDS	44		32	
50 PERCENT EXCEEDS	2.5		4.2	
90 PERCENT EXCEEDS	.05		.08	

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 mi^2.

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1991 to current year.

pH: March 1991 to current year.

WATER TEMPERATURE: March 1991 to current year.

DISSOLVED OXYGEN: March 1991 to current year.

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

REMARKS.--Water-quality samples collected monthly. Records good for specific conductance, pH, and water temperature. Record poor for 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, 16.8 mg/L, Mar. 24, 1992; minimum recorded, 1.1 mg/L, Oct. 20, 1991.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 666 microsiemens, Apr. 6; minimum, 113 microsiemens, May 13.

pH: Maximum, 8.6 units, Oct. 19; minimum, 6.3 units, Mar. 9.

WATER TEMPERATURE: Maximum, 30.2°C, Aug. 1; minimum, 0.0°C, Jan. 6-7.

DISSOLVED OXYGEN: Maximum recorded, 16.8 mg/L, Feb. 12; minimum recorded, 3.1 mg/L, May 28.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	483	462	473	475	464	470	349	340	344	325	320	322
2	487	464	476	471	451	463	355	348	351	327	321	324
3	486	472	479	464	449	454	356	351	355	321	318	319
4	492	471	481	462	451	458	357	208	310	325	319	322
5	---	---	---	462	449	454	280	214	253	338	323	330
6	---	---	---	459	449	454	309	280	296	340	132	312
7	---	---	---	453	439	446	326	309	318	245	150	201
8	---	---	---	448	429	439	336	326	332	284	245	262
9	---	---	---	442	430	436	338	335	337	320	284	305
10	---	---	---	433	421	428	338	155	271	331	319	326
11	---	---	---	427	418	424	259	192	236	332	215	307
12	---	---	---	427	420	424	288	259	275	254	214	230
13	510	455	474	425	410	419	305	288	297	286	254	269
14	482	473	477	422	407	414	310	305	308	290	168	239
15	483	475	480	417	409	415	313	309	311	265	168	212
16	508	480	489	409	324	366	315	255	308	288	264	281
17	510	488	499	364	325	342	255	231	240	313	281	296
18	510	493	498	373	359	364	269	250	260	327	313	319
19	497	437	467	375	366	371	278	269	273	339	326	332
20	448	415	427	378	372	376	283	277	279	345	333	340
21	459	432	441	382	373	377	289	282	285	348	336	343
22	461	452	454	382	376	379	295	288	291	351	341	347
23	483	461	466	380	372	377	299	295	296	354	348	351
24	484	470	475	384	371	378	305	299	302	356	346	352
25	486	473	481	378	375	377	310	304	306	356	349	353
26	484	475	480	376	370	373	311	309	310	360	350	356
27	481	469	477	371	280	340	314	309	312	360	356	358
28	480	464	474	304	282	295	315	309	313	362	233	309
29	478	462	472	328	304	316	316	314	315	349	276	327
30	476	457	467	341	328	334	319	315	317	361	348	356
31	471	462	466	---	---	---	320	317	318	362	350	358
MONTH	---	---	---	475	280	399	357	155	301	362	132	312

SALT RIVER BASIN

03301580 WILSON CREEK NEAR DEATSVILLE, KY--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	359	351	356	436	429	432	462	437	451	427	183	352
2	369	358	362	430	426	428	461	434	448	307	212	251
3	371	366	369	432	428	429	459	437	448	355	298	334
4	376	370	373	437	432	434	464	449	457	395	354	370
5	376	368	372	437	384	426	658	454	467	395	375	387
6	373	366	370	384	363	368	666	450	474	451	381	405
7	368	365	366	372	161	341	473	415	462	456	385	412
8	368	365	366	293	156	243	660	455	480	454	396	418
9	370	367	369	345	293	318	467	459	463	485	154	366
10	370	368	369	368	324	341	471	442	464	437	362	381
11	372	367	369	370	330	352	471	459	464	385	364	377
12	376	371	374	392	362	372	465	267	337	489	385	422
13	381	375	377	396	360	380	360	310	339	519	113	357
14	383	377	380	446	369	393	387	360	377	251	123	191
15	394	349	373	457	429	445	402	387	398	275	234	245
16	392	383	388	472	397	430	418	401	411	291	275	286
17	396	382	390	460	396	417	415	394	408	326	240	284
18	396	376	388	442	392	412	405	394	399	367	169	294
19	395	380	389	471	401	430	420	398	406	304	191	252
20	402	387	395	432	405	413	425	292	373	350	291	318
21	409	397	402	455	403	413	338	211	272	373	333	362
22	414	398	407	479	402	443	397	321	357	377	359	369
23	413	406	408	521	390	445	437	178	367	393	372	385
24	422	408	417	453	398	418	314	203	271	407	388	399
25	426	408	420	457	446	453	351	314	334	423	399	410
26	428	416	422	467	454	459	371	351	363	430	413	421
27	433	424	429	468	459	464	390	371	384	436	423	429
28	430	422	427	478	450	464	400	385	394	433	422	428
29	---	---	---	476	457	466	409	389	402	442	431	436
30	---	---	---	484	463	475	416	397	408	443	429	437
31	---	---	---	488	446	468	---	---	---	450	442	445
MONTH	433	349	387	521	156	412	666	178	403	519	113	362
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	475	461	469	---	---	---
2	---	---	---	---	---	---	466	445	458	---	---	---
3	---	---	---	---	---	---	461	441	457	---	---	---
4	---	---	---	---	---	---	456	442	451	---	---	---
5	---	---	---	---	---	---	461	188	405	---	---	---
6	---	---	---	---	---	---	425	212	347	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	466	435	451	---	---	---	---	---	---
20	---	---	---	466	436	455	---	---	---	---	---	---
21	---	---	---	461	438	450	---	---	---	---	---	---
22	---	---	---	451	151	384	---	---	---	---	---	---
23	---	---	---	395	218	315	---	---	---	---	---	---
24	---	---	---	421	375	390	---	---	---	---	---	---
25	---	---	---	442	416	427	---	---	---	---	---	---
26	---	---	---	471	438	456	---	---	---	---	---	---
27	---	---	---	491	455	471	---	---	---	---	---	---
28	---	---	---	585	489	548	---	---	---	---	---	---
29	---	---	---	605	531	565	---	---	---	---	---	---
30	---	---	---	611	465	515	---	---	---	---	---	---
31	---	---	---	491	438	466	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

SALT RIVER BASIN

03301580 WILSON CREEK NEAR DEATSVILLE, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.7	7.5	7.6	7.7	7.6	7.7	7.5	7.4	7.5	7.8	7.7	7.7
2	7.7	7.5	7.6	7.8	7.7	7.8	7.5	7.4	7.4	7.7	7.7	7.7
3	7.7	7.5	7.6	7.7	7.4	7.6	7.4	7.3	7.4	7.7	7.7	7.7
4	7.7	7.6	7.6	7.4	7.3	7.4	8.1	7.3	7.6	7.8	7.7	7.7
5	7.8	7.7	7.7	7.3	7.2	7.2	8.2	8.0	8.1	7.7	7.5	7.7
6	7.8	7.6	7.7	7.2	7.0	7.1	8.2	8.1	8.2	7.8	7.4	7.6
7	7.7	7.6	7.6	7.1	7.0	7.1	8.2	8.1	8.1	7.4	7.2	7.3
8	7.7	7.5	7.6	7.1	6.9	7.0	8.1	7.9	7.9	7.2	7.0	7.1
9	7.8	7.5	7.7	7.0	6.7	6.8	8.2	7.8	8.0	7.1	7.1	7.1
10	7.9	7.7	7.8	7.4	6.7	6.9	8.3	7.8	8.1	7.1	7.1	7.1
11	7.9	7.6	7.8	7.0	6.8	7.0	8.2	8.0	8.1	7.3	7.0	7.1
12	7.9	7.6	7.8	7.1	6.8	7.0	8.3	8.2	8.2	7.4	7.2	7.3
13	7.9	7.8	7.8	6.8	6.7	6.8	8.3	8.2	8.2	7.2	7.1	7.2
14	7.9	7.7	7.8	6.9	6.5	6.7	8.3	8.1	8.2	7.3	7.0	7.2
15	7.7	7.6	7.7	6.9	6.6	6.8	8.2	8.0	8.1	7.5	7.2	7.4
16	7.7	7.4	7.5	7.4	6.6	6.9	8.3	8.1	8.1	7.5	7.2	7.4
17	8.5	7.4	7.5	7.6	7.4	7.5	8.2	8.1	8.1	7.2	7.1	7.2
18	8.5	8.3	8.4	7.7	7.6	7.7	8.2	8.1	8.2	7.1	7.0	7.1
19	8.6	8.3	8.5	7.8	7.7	7.7	8.2	7.9	8.0	7.0	7.0	7.0
20	8.5	8.2	8.3	7.8	7.7	7.7	8.0	7.8	7.9	7.0	6.9	7.0
21	8.6	8.2	8.3	7.8	7.7	7.7	8.1	7.8	8.0	6.9	6.9	6.9
22	8.6	8.5	8.5	7.8	7.7	7.8	8.1	7.9	8.1	7.0	6.9	7.0
23	8.5	8.2	8.4	7.7	7.7	7.7	8.1	7.9	8.0	7.0	6.9	7.0
24	8.4	8.3	8.4	7.7	7.6	7.6	8.1	7.8	7.9	7.0	6.9	6.9
25	8.5	8.3	8.4	7.6	7.6	7.6	8.1	7.8	8.0	6.9	6.9	6.9
26	8.4	8.2	8.3	7.7	7.6	7.6	8.1	8.0	8.0	6.9	6.9	6.9
27	8.3	8.0	8.2	8.0	7.6	7.8	8.1	8.0	8.1	6.9	6.9	6.9
28	8.2	8.0	8.1	8.0	7.6	7.8	8.1	8.0	8.1	7.5	6.9	7.2
29	8.3	8.1	8.2	7.9	7.6	7.7	8.1	7.9	8.0	7.4	7.2	7.3
30	8.2	7.7	8.0	7.6	7.5	7.6	8.0	7.9	8.0	7.2	7.0	7.1
31	7.7	7.6	7.6	---	---	---	8.0	7.8	7.8	7.0	7.0	7.0
MONTH	8.6	7.4	7.9	8.0	6.5	7.4	8.3	7.3	8.0	7.8	6.9	7.2
		FEBRUARY			MARCH			APRIL			MAY	
1	7.0	6.9	6.9	7.7	7.2	7.5	7.7	7.6	7.6	8.1	7.6	7.9
2	6.9	6.9	6.9	---	---	---	7.6	7.4	7.5	8.0	7.6	7.8
3	6.9	6.9	6.9	---	---	---	7.5	6.5	7.4	8.2	7.7	7.9
4	6.9	6.8	6.9	---	---	---	7.4	6.8	7.3	8.2	7.7	7.9
5	6.9	6.9	6.9	---	---	---	7.3	6.5	7.1	8.3	7.8	8.0
6	6.9	6.9	6.9	---	---	---	7.2	7.0	7.1	8.3	7.8	8.0
7	6.9	6.8	6.9	---	---	---	7.2	6.9	7.0	8.2	7.8	8.0
8	6.8	6.8	6.8	---	---	---	7.3	7.0	7.1	8.1	7.8	8.0
9	6.8	6.8	6.8	7.6	6.3	7.2	7.4	7.1	7.2	7.9	7.3	7.6
10	6.9	6.8	6.8	7.7	6.8	7.4	7.4	7.2	7.3	7.7	7.5	7.7
11	6.9	6.9	6.9	7.9	7.3	7.6	7.6	7.2	7.4	7.9	7.7	7.8
12	6.9	6.9	6.9	8.0	7.5	7.7	7.4	7.2	7.3	8.1	7.8	7.9
13	6.9	6.9	6.9	8.1	7.5	7.8	8.2	7.3	7.7	8.0	7.5	7.7
14	6.9	6.9	6.9	8.0	7.5	7.8	8.3	8.0	8.1	7.7	7.5	7.6
15	7.1	6.9	7.0	8.0	7.5	7.7	8.4	8.0	8.2	7.9	7.7	7.8
16	7.0	7.0	7.0	8.0	7.5	7.7	8.3	8.1	8.2	8.0	7.8	7.9
17	7.1	7.0	7.0	7.8	7.5	7.7	8.2	7.9	8.1	7.9	7.4	7.6
18	7.1	7.0	7.0	7.7	7.4	7.6	8.3	7.9	8.1	7.6	7.4	7.6
19	7.0	6.9	7.0	7.6	7.4	7.5	8.3	8.0	8.1	7.9	7.8	7.8
20	6.9	6.9	6.9	7.5	7.3	7.5	8.2	7.9	8.1	8.0	7.8	7.9
21	6.9	6.9	6.9	7.8	7.5	7.6	7.9	7.7	7.8	8.0	7.8	7.9
22	6.9	6.9	6.9	7.9	7.6	7.8	8.2	7.8	8.0	8.1	7.9	8.0
23	6.9	6.8	6.8	8.4	7.7	8.0	8.1	7.7	8.0	8.1	7.9	8.0
24	6.9	6.8	6.9	8.4	8.1	8.2	8.0	7.8	7.9	8.2	7.9	8.0
25	6.9	6.9	6.9	8.3	7.5	8.1	8.2	7.8	7.9	8.1	7.9	8.0
26	6.9	6.9	6.9	8.2	7.0	8.0	8.3	7.8	8.0	8.0	7.6	7.8
27	7.5	6.9	7.1	8.1	7.8	8.0	8.2	7.9	8.0	8.0	7.7	7.8
28	7.6	7.2	7.4	8.0	7.4	7.9	8.3	5.5	8.0	7.8	7.5	7.7
29	---	---	---	7.9	6.8	7.7	8.3	7.9	8.1	8.0	7.6	7.7
30	---	---	---	7.8	5.7	7.7	8.3	7.9	8.1	8.0	7.7	7.9
31	---	---	---	7.8	6.3	7.7	---	---	---	8.0	7.7	7.8
MONTH	7.6	6.8	6.9	---	---	---	8.4	5.5	7.7	8.3	7.3	7.8

SALT RIVER BASIN

03301580 WILSON CREEK NEAR DEATSVILLE, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, 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	---	---	---	---	---	---	7.1	6.8	7.0	---	---	---
2	---	---	---	---	---	---	7.1	6.8	7.0	---	---	---
3	---	---	---	---	---	---	7.0	6.7	6.9	---	---	---
4	---	---	---	---	---	---	6.9	6.8	6.9	---	---	---
5	---	---	---	---	---	---	7.0	6.8	6.9	---	---	---
6	---	---	---	---	---	---	7.0	6.7	6.9	---	---	---
7	---	---	---	---	---	---	6.8	6.5	6.7	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	7.2	6.8	7.1	---	---	---	---	---	---
20	---	---	---	6.8	6.5	6.7	---	---	---	---	---	---
21	---	---	---	6.7	6.6	6.6	---	---	---	---	---	---
22	---	---	---	6.6	6.3	6.5	---	---	---	---	---	---
23	---	---	---	6.5	6.3	6.4	---	---	---	---	---	---
24	---	---	---	6.4	6.3	6.4	---	---	---	---	---	---
25	---	---	---	6.4	6.3	6.4	---	---	---	---	---	---
26	---	---	---	6.6	6.4	6.4	---	---	---	6.8	6.7	6.8
27	---	---	---	6.6	6.5	6.6	---	---	---	6.7	6.6	6.7
28	---	---	---	6.7	6.5	6.6	---	---	---	6.7	6.6	6.7
29	---	---	---	6.9	6.6	6.7	---	---	---	6.7	6.6	6.7
30	---	---	---	6.9	6.6	6.8	---	---	---	6.8	6.6	6.7
31	---	---	---	7.0	6.8	6.9	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.0	14.2	17.4	13.9	9.2	11.4	5.3	1.8	3.4	7.1	5.2	6.7
2	21.7	16.1	18.9	11.5	7.3	9.4	5.6	1.5	3.5	5.2	2.1	3.5
3	19.2	15.1	17.5	13.4	8.7	10.9	8.2	3.7	5.5	2.1	.7	1.4
4	17.3	11.7	14.3	14.6	12.2	13.4	11.7	8.2	9.7	2.3	.7	1.4
5	---	---	---	15.8	13.3	14.5	12.7	11.6	12.2	1.8	.6	1.1
6	---	---	---	15.8	12.6	14.8	12.5	11.8	12.2	.8	.0	.3
7	---	---	---	13.6	10.5	12.1	12.1	10.5	11.6	2.4	.0	1.5
8	---	---	---	13.7	10.1	11.9	10.5	8.3	8.9	3.1	1.5	2.4
9	---	---	---	15.4	12.4	14.0	9.7	8.3	8.9	3.8	1.9	2.9
10	---	---	---	15.2	11.6	13.4	9.1	8.1	8.6	4.6	1.9	3.2
11	---	---	---	11.6	9.3	10.4	8.2	5.7	6.9	7.8	4.6	6.2
12	---	---	---	10.0	8.5	9.4	5.9	4.1	5.1	11.4	7.8	9.8
13	15.3	13.3	14.3	12.1	8.0	10.0	5.2	2.9	4.2	11.8	9.9	10.9
14	16.8	14.5	15.6	13.9	10.0	11.9	5.4	2.5	3.8	11.0	9.8	10.4
15	17.1	13.8	15.6	13.6	12.5	13.1	5.2	2.4	3.7	9.9	8.4	9.2
16	19.3	14.4	16.6	12.5	11.5	12.0	8.6	5.2	6.4	8.4	7.1	7.7
17	18.0	13.7	15.8	12.8	10.7	11.7	9.1	7.2	8.5	8.1	6.8	7.4
18	15.7	14.2	15.0	12.1	8.9	10.4	7.2	5.3	5.9	8.2	6.5	7.4
19	15.6	14.9	15.3	10.8	7.8	9.5	5.7	3.7	4.7	9.1	8.1	8.5
20	19.3	15.1	16.7	12.0	9.7	10.8	5.1	2.0	3.5	8.2	4.7	6.3
21	16.9	13.1	15.2	15.1	11.9	13.2	5.0	2.2	3.6	4.7	3.0	3.9
22	15.0	13.6	14.2	12.4	7.7	9.6	8.0	4.6	6.1	3.7	1.8	2.7
23	17.3	14.2	15.3	7.7	4.9	6.0	7.0	5.2	6.1	2.6	1.4	1.9
24	15.4	12.4	13.9	5.4	4.1	4.7	6.1	5.1	5.5	2.7	1.0	1.7
25	14.1	10.9	12.5	5.6	4.7	5.2	6.8	4.5	5.5	2.1	.9	1.5
26	11.1	8.7	10.0	6.5	5.0	5.8	4.8	2.6	3.6	2.5	.9	1.7
27	10.2	6.7	8.5	11.9	6.5	8.6	5.1	3.3	4.1	1.8	.9	1.2
28	10.4	6.3	8.5	12.4	7.6	10.5	5.1	1.5	3.3	4.7	1.8	3.3
29	11.0	6.7	9.0	8.0	5.1	6.6	4.9	2.8	3.9	4.6	4.0	4.3
30	13.3	7.5	10.4	6.7	3.7	5.1	5.4	2.9	4.1	4.1	3.2	3.8
31	14.5	12.1	13.1	---	---	---	6.8	5.3	5.9	3.3	1.2	2.5
MONTH	---	---	---	15.8	3.7	10.3	12.7	1.5	6.1	11.8	.0	4.4

SALT RIVER BASIN

03301580 WILSON CREEK NEAR DEATSVILLE, KY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	5.9	2.7	4.1	7.7	4.3	6.1	12.4	5.5	9.0	14.2	10.9	11.9
2	6.0	5.1	5.5	6.3	3.7	5.0	15.8	8.3	11.6	15.3	10.4	12.3
3	5.6	4.2	5.0	5.0	2.7	3.9	15.8	8.7	12.4	15.0	9.2	12.2
4	5.3	2.7	4.1	5.8	1.9	3.9	17.8	11.5	14.4	13.9	11.6	12.9
5	2.7	1.2	1.8	5.7	3.3	4.2	14.1	7.9	10.9	16.7	12.4	14.4
6	2.0	.9	1.3	6.8	4.7	5.7	17.7	8.0	12.5	16.4	11.4	14.0
7	1.1	.8	1.0	14.0	6.4	9.3	19.1	11.8	15.0	18.9	13.2	16.0
8	1.5	.8	1.1	8.1	4.9	6.1	20.7	12.8	16.3	19.6	14.3	17.1
9	1.5	.9	1.1	6.3	2.3	4.3	19.7	15.5	17.3	19.3	15.1	16.6
10	1.0	.8	.9	---	---	---	21.9	13.3	17.1	15.4	14.1	14.8
11	1.6	.8	1.1	---	---	---	18.5	16.0	17.4	15.1	13.5	14.0
12	2.1	.8	1.3	---	---	---	17.4	12.0	14.9	14.3	12.9	13.5
13	2.5	1.0	1.5	---	---	---	13.5	10.3	11.8	14.3	12.6	13.5
14	2.1	1.0	1.5	---	---	---	14.9	7.7	11.6	16.9	13.8	15.2
15	5.0	1.0	2.8	---	---	---	13.9	9.5	11.8	17.1	14.6	15.8
16	5.8	4.8	5.2	---	---	---	18.6	11.2	15.0	16.0	13.8	14.5
17	6.9	4.1	5.4	---	---	---	19.7	14.8	17.2	15.2	14.8	15.0
18	7.1	3.5	5.3	---	---	---	19.4	15.4	17.6	17.0	15.0	15.9
19	7.9	4.6	6.2	---	---	---	21.1	15.2	18.0	18.3	13.8	15.4
20	7.5	5.1	6.4	---	---	---	17.6	13.3	15.3	18.6	12.5	15.3
21	7.4	6.1	6.8	---	---	---	17.8	13.6	15.2	18.9	13.4	14.6
22	7.4	4.2	5.8	---	---	---	15.6	12.1	13.6	19.4	13.4	16.1
23	8.4	7.3	7.7	---	---	---	12.9	10.0	10.9	20.6	11.5	17.2
24	8.0	6.0	7.1	13.5	9.9	11.7	15.1	9.6	11.8	22.1	16.9	19.5
25	8.0	5.1	6.6	13.1	6.4	9.9	16.0	9.3	12.3	21.1	18.4	19.8
26	9.7	6.9	8.2	12.4	7.2	10.2	16.4	8.8	12.7	20.4	18.4	19.1
27	10.2	9.0	9.5	12.9	10.6	11.7	14.1	11.3	12.7	21.0	17.6	19.3
28	10.3	7.1	9.0	12.7	8.4	10.8	15.7	8.7	12.3	21.5	19.2	20.2
29	---	---	---	10.7	7.9	9.6	16.7	10.3	13.9	21.9	19.8	20.9
30	---	---	---	10.5	7.3	9.2	15.9	13.5	14.5	21.1	17.0	19.1
31	---	---	---	11.0	6.2	8.6	---	---	---	19.6	17.5	18.7
MONTH	10.3	.8	4.4	---	---	---	21.9	5.5	13.9	22.1	9.2	16.0
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	30.2	26.1	28.3	---	---	---
2	---	---	---	---	---	---	29.8	25.4	27.8	---	---	---
3	---	---	---	---	---	---	30.0	25.5	27.7	---	---	---
4	---	---	---	---	---	---	28.2	26.0	27.3	---	---	---
5	---	---	---	---	---	---	27.5	23.3	25.7	---	---	---
6	---	---	---	---	---	---	24.8	22.6	23.6	---	---	---
7	---	---	---	---	---	---	25.9	23.5	24.3	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	28.8	23.1	25.8	---	---	---	---	---	---
20	---	---	---	27.6	22.5	25.3	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	28.7	23.3	25.2	---	---	---	---	---	---
23	---	---	---	27.0	22.8	24.6	---	---	---	---	---	---
24	---	---	---	26.8	23.3	25.1	---	---	---	---	---	---
25	---	---	---	27.0	24.3	25.6	---	---	---	---	---	---
26	---	---	---	28.0	23.8	25.9	---	---	---	17.1	14.0	15.7
27	---	---	---	28.5	25.3	26.9	---	---	---	17.7	13.1	15.6
28	---	---	---	27.8	25.0	26.7	---	---	---	18.2	13.5	15.9
29	---	---	---	29.3	25.5	27.6	---	---	---	18.6	14.2	16.6
30	---	---	---	29.6	25.3	27.7	---	---	---	18.7	15.1	17.1
31	---	---	---	29.8	25.3	27.6	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

SALT RIVER BASIN

03301580 WILSON CREEK NEAR DEATSVILLE, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	7.7	7.3	7.5	9.4	9.2	9.3	13.0	12.8	12.8
2	---	---	---	7.6	7.2	7.4	9.5	9.3	9.4	13.0	12.8	12.9
3	---	---	---	7.8	7.5	7.6	9.6	9.4	9.5	13.1	13.0	13.0
4	---	---	---	8.4	7.2	7.9	9.7	9.5	9.6	13.2	13.0	13.1
5	---	---	---	8.4	7.7	8.1	9.8	9.6	9.7	13.3	12.3	13.1
6	---	---	---	8.7	7.8	8.4	10.9	9.8	9.9	12.9	11.4	12.1
7	---	---	---	8.7	7.9	8.5	10.0	9.8	9.9	11.5	10.1	10.7
8	---	---	---	8.8	8.4	8.6	10.1	9.9	10.0	11.5	9.9	10.6
9	---	---	---	8.8	8.2	8.6	10.2	10.0	10.2	11.7	9.8	10.6
10	---	---	---	8.9	8.7	8.8	10.4	10.2	10.3	10.6	9.4	10.1
11	---	---	---	---	---	---	10.5	10.3	10.4	10.1	9.1	9.6
12	---	---	---	---	---	---	10.7	10.5	10.6	10.0	8.7	9.5
13	---	---	---	---	---	---	10.9	10.7	10.8	10.2	8.6	9.2
14	6.0	5.8	5.9	---	---	---	11.1	10.8	10.9	10.5	8.6	9.5
15	6.1	5.9	6.0	---	---	---	11.1	10.9	11.0	10.6	9.4	10.3
16	6.3	6.0	6.1	---	---	---	11.2	11.0	11.1	11.0	10.2	10.5
17	---	---	---	8.4	8.1	8.4	11.3	11.0	11.1	10.9	9.8	10.3
18	---	---	---	8.3	8.2	8.2	11.2	11.0	11.1	11.0	9.7	10.3
19	---	---	---	8.3	8.1	8.2	11.4	11.1	11.3	10.3	9.4	9.8
20	---	---	---	8.5	8.2	8.3	11.5	11.3	11.4	10.9	9.7	10.3
21	---	---	---	8.7	8.3	8.5	11.7	11.5	11.5	11.8	10.4	11.1
22	---	---	---	8.8	8.6	8.7	11.8	11.6	11.7	12.3	11.0	11.6
23	---	---	---	8.8	8.7	8.7	11.9	11.7	11.8	12.1	11.1	11.6
24	---	---	---	8.8	8.6	8.7	11.9	11.8	11.9	12.4	11.2	11.7
25	---	---	---	8.8	8.7	8.7	12.0	11.8	11.9	13.0	11.7	12.4
26	6.6	6.5	6.6	8.8	8.7	8.8	12.1	11.9	12.0	12.9	11.8	12.4
27	6.7	6.5	6.6	8.9	8.8	8.9	12.2	12.0	12.2	13.2	11.9	12.6
28	6.8	6.6	6.7	9.1	8.9	9.0	12.4	12.2	12.3	14.2	12.0	13.4
29	6.9	6.7	6.8	9.2	9.0	9.1	12.6	12.4	12.4	14.2	13.3	14.0
30	7.3	6.9	7.1	9.2	9.1	9.2	12.7	12.5	12.5	14.1	13.4	13.7
31	7.8	6.9	7.4	---	---	---	12.8	12.6	12.7	14.3	13.3	13.8
MONTH	---	---	---	---	---	---	12.8	9.2	11.0	17.2	8.6	11.5
		FEBRUARY			MARCH			APRIL			MAY	
1	13.6	12.5	13.2	11.5	7.8	8.9	10.6	8.6	9.6	10.2	8.5	9.4
2	13.7	12.5	13.0	11.2	8.6	9.9	12.2	8.6	10.7	10.5	9.1	9.8
3	14.2	12.7	13.4	11.5	9.4	10.3	17.1	11.4	15.0	11.2	8.9	10.0
4	14.3	12.7	13.4	11.4	9.0	10.2	---	---	---	11.1	8.8	9.7
5	14.8	13.4	14.0	10.1	8.5	9.1	---	---	---	11.5	8.6	10.0
6	15.3	13.7	14.5	9.9	8.5	9.1	---	---	---	11.8	8.5	10.0
7	15.1	14.2	14.6	9.5	8.1	8.7	---	---	---	11.4	8.0	9.5
8	15.7	14.3	14.9	9.8	8.9	9.6	9.6	4.0	5.5	11.3	7.7	9.2
9	15.6	14.6	15.0	10.7	9.6	10.1	5.3	3.4	4.2	9.0	7.5	8.3
10	15.3	14.6	14.9	10.9	9.5	10.2	5.5	2.7	3.9	9.5	8.8	9.1
11	15.8	15.0	15.4	11.2	9.2	10.2	6.0	2.4	4.2	9.8	8.9	9.4
12	16.8	15.3	16.0	11.5	9.1	10.2	12.1	4.5	7.1	10.4	8.9	9.7
13	16.4	15.2	15.8	11.8	8.9	10.3	11.0	7.7	9.4	9.6	8.9	9.2
14	16.4	15.1	15.8	11.9	8.8	10.2	10.9	8.6	9.8	9.2	8.6	9.0
15	---	---	---	12.1	8.8	10.3	10.9	8.5	9.7	9.4	8.6	8.9
16	16.8	13.4	16.1	12.6	8.9	10.4	10.5	7.6	9.2	9.6	8.7	9.2
17	16.1	15.0	15.7	12.1	9.0	10.3	10.0	7.4	8.4	---	---	---
18	15.7	13.7	14.9	12.4	9.1	10.5	9.7	7.4	8.4	---	---	---
19	15.1	13.2	14.3	12.4	9.4	10.6	9.9	7.4	8.4	9.3	8.2	8.6
20	13.9	12.6	13.4	11.5	9.3	10.2	9.6	7.4	8.4	9.3	7.6	8.5
21	12.9	12.3	12.6	12.3	9.5	10.7	8.9	8.3	8.6	9.3	7.9	8.4
22	12.8	10.8	12.2	12.4	9.4	10.6	9.9	8.5	9.2	9.0	7.2	8.2
23	10.8	9.0	9.8	12.4	9.4	10.6	9.9	8.9	9.5	8.9	6.6	7.9
24	10.0	8.2	8.8	11.3	9.0	10.2	10.3	8.9	9.6	8.5	6.3	7.4
25	8.7	8.2	8.3	11.5	8.9	10.1	10.6	8.8	9.7	8.2	5.8	6.9
26	11.1	8.4	9.0	11.2	8.6	9.9	11.0	8.4	9.7	6.9	3.6	5.5
27	10.2	7.3	8.9	10.0	8.4	9.1	10.8	8.6	9.6	7.3	3.9	5.3
28	9.2	7.1	7.9	10.5	8.5	9.4	11.6	8.5	10.0	9.2	3.1	4.5
29	---	---	---	10.4	8.6	9.6	11.5	8.2	9.8	6.2	3.3	4.6
30	---	---	---	10.5	8.7	9.6	10.7	8.1	9.4	7.3	4.8	5.6
31	---	---	---	10.7	8.9	9.8	---	---	---	6.4	4.2	5.2
MONTH	18.2	7.1	13.3	12.6	7.8	10.0	---	---	---	---	---	---

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 mi^2.

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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
03...	1010	--	685	6.8	18.0	3.6
31...	0935	1.1	698	6.7	14.0	8.2
DEC						
05...	1050	23	562	7.1	13.5	8.4
JAN						
04...	1125	1.3	695	7.0	1.0	15.8
FEB						
01...	0950	9.5	482	6.5	7.5	11.0
MAR						
06...	1005	14	676	5.9	9.0	9.9
APR						
03...	1110	1.9	484	6.8	11.5	9.3
MAY						
01...	0925	2.9	631	6.8	13.5	9.8
JUN						
26...	1025	5.2	302	6.8	23.5	4.2
SEP						
11...	1150	0.60	659	7.3	21.0	4.2

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 mi^2

PERIOD OF RECORD.--April 1994 to present.

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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
11...	1315	0.32	320	6.7	17.5	4.9
NOV						
07...	1220	0.56	281	6.5	14.0	5.2
Dec						
12...	1335	3.6	610	6.3	4.5	7.1
JAN						
10...	0830	0.69	758	6.4	0.5	13.3
FEB						
06...	1235	0.50	622	6.4	2.5	17.5
MAR						
13...	1215	0.86	782	6.0	17.5	12.4
APR						
10...	1245	0.16	935	7.6	20.5	15.4
MAY						
09...	1215	48	260	6.9	21.5	5.7
JUL						
10...	1250	0.16	579	7.7	30.0	6.2
SEP						
18...	1300	0.70	346	7.1	21.0	7.2

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 mi^2.
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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
05...	1130	1.5	677	7.3	14.5	9.3
NOV						
10...	0940	2.7	539	7.0	13.0	8.7
DEC						
07...	1248	4.1	731	7.6	13.0	7.6
JAN						
11...	1200	3.6	776	7.6	10.0	9.4
FEB						
16...	1045	19	564	5.9	7.0	11.1
MAR						
08...	1215	21	486	6.3	7.5	12.6
APR						
05...	1220	1.7	651	7.1	9.5	18.2
MAY						
16...	0955	10	647	7.0	15.5	7.7
JUL						
06...	1010	3.8	614	7.1	21.0	7.5
SEP						
18...	1135	1.7	690	7.8	17.5	8.6

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 mi^2.

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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
03...	1130	3.3	626	7.5	18.0	13.2
NOV						
02...	0805	2.7	696	6.7	6.5	11.2
DEC						
05...	0940	30	477	6.7	13.5	9.6
JAN						
04...	1000	6.5	642	6.8	0.0	14.8
FEB						
16...	1205	64	467	5.6	6.0	11.6
MAR						
06...	1130	14	624	6.3	10.5	13.5
APR						
03...	0940	7.4	477	8.3	10.5	14.7
MAY						
16...	1120	29	554	7.3	17.0	9.0
JUL						
06...	1145	11	477	7.1	23.0	8.3
SEP						
11...	1000	2.3	637	8.0	18.0	10.5

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 mi^2.
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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
03...	1055	--	717	7.2	17.0	7.5
31...	0820	0.57	709	6.8	16.0	4.4
DEC						
05...	0810	8.6	345	6.6	14.5	7.2
JAN						
04...	0840	0.58	478	7.5	1.0	10.4
FEB						
01...	0820	2.2	431	6.9	7.0	9.3
MAR						
06...	1220	2.1	633	6.6	12.5	13.2
APR						
03...	0845	0.60	550	7.3	9.0	9.9
MAY						
01...	0820	0.50	851	6.4	11.5	11.1
JUN						
26...	0905	2.0	550	6.9	22.5	7.1
SEP						
11...	0835	0.02	721	7.6	17.0	5.3

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 mi^2.

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: Jan. 4-6, 24, 25, and Feb. 4-14. 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 1994 TO SEPTEMBER 1995--DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	9.1	15	13	49	17	13	231	41	14	6.3	4.5
2	6.7	8.9	13	13	40	15	13	419	76	10	13	3.2
3	7.4	7.9	11	12	32	15	12	111	40	9.3	7.3	2.9
4	6.7	8.1	252	12	28	13	14	65	20	9.0	6.7	3.5
5	6.1	19	223	11	25	74	14	48	17	424	319	2.9
6	5.6	33	59	164	22	73	11	33	14	84	289	2.9
7	5.8	9.8	35	138	20	116	13	25	12	43	51	3.2
8	6.0	7.8	25	50	18	702	12	21	10	24	236	3.9
9	36	50	186	36	17	200	11	402	8.4	18	264	4.0
10	15	62	384	27	16	124	9.9	137	7.6	14	178	4.0
11	8.3	18	186	129	16	87	8.9	70	22	13	35	4.3
12	7.2	11	81	108	15	65	81	45	77	12	21	5.0
13	15	8.7	52	59	14	51	21	450	12	9.5	14	4.5
14	18	8.2	37	449	12	42	12	1290	7.7	8.4	11	3.9
15	9.2	28	30	308	669	36	9.8	224	5.3	7.8	10	3.9
16	7.1	239	162	115	694	30	8.1	145	4.9	7.5	10	48
17	6.8	54	169	72	183	27	48	1880	5.5	7.4	8.5	43
18	14	23	73	53	112	23	23	3060	5.2	7.0	24	8.5
19	255	15	48	77	84	22	17	1900	4.9	6.8	39	5.0
20	49	12	38	58	61	40	64	265	4.9	6.0	9.3	15
21	20	32	30	39	48	46	434	167	20	6.2	6.6	8.1
22	13	16	25	29	36	26	106	119	43	52	5.1	5.5
23	11	10	22	26	35	23	180	84	6.0	93	5.6	4.2
24	10	9.1	21	23	28	20	312	72	5.9	150	5.7	4.0
25	9.4	20	19	19	22	16	110	70	67	18	5.5	3.8
26	8.2	17	17	16	21	15	59	44	193	14	5.3	4.0
27	7.6	167	16	16	20	24	41	83	25	9.4	5.4	3.5
28	7.7	204	16	497	21	20	30	242	17	12	5.2	3.3
29	7.7	43	16	193	---	19	23	79	56	8.0	5.3	3.1
30	7.6	22	14	95	---	15	21	41	29	7.1	4.5	3.0
31	8.2	---	14	61	---	13	---	29	---	6.6	4.1	---
TOTAL	602.2	1172.6	2289	2918	2358	2009	1731.7	11851	857.3	1111.0	1610.4	218.6
MEAN	19.4	39.1	73.8	94.1	84.2	64.8	57.7	382	28.6	35.8	51.9	7.29
MAX	255	239	384	497	694	702	434	3060	193	424	319	48
MIN	5.6	7.8	11	11	12	13	8.1	21	4.9	6.0	4.1	2.9
CFSM	.30	.61	1.15	1.47	1.32	1.01	.90	5.97	.45	.56	.81	.11
IN.	.35	.68	1.33	1.70	1.37	1.17	1.01	6.89	.50	.65	.94	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1995, BY WATER YEAR (WY)

MEAN	27.3	59.7	98.1	129	161	180	134	106	60.3	46.7	35.5	31.8
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1944 - 1995	
ANNUAL TOTAL	24129.2		28728.8			
ANNUAL MEAN	66.1		78.7		88.8	
HIGHEST ANNUAL MEAN					159	1950
LOWEST ANNUAL MEAN					11.4	1954
HIGHEST DAILY MEAN	1000	Jan 28	3060	May 18	6340	Mar 10 1964
LOWEST DAILY MEAN	5.6	Jul 20	2.9	Sep 3	.10	Sep 3 1945
ANNUAL SEVEN-DAY MINIMUM	6.3	Oct 2	3.2	Sep 2	.19	Sep 17 1945
INSTANTANEOUS PEAK FLOW			3850	May 18	8020	Mar 9 1964
INSTANTANEOUS PEAK STAGE			19.00	May 18	22.69	Mar 9 1964
INSTANTANEOUS LOW FLOW			2.9	Sep 3	.10	Sep 3 1945
ANNUAL RUNOFF (CFSM)	1.03		1.23		1.39	
ANNUAL RUNOFF (INCHES)	14.03		16.70		18.85	
10 PERCENT EXCEEDS	173		181		186	
50 PERCENT EXCEEDS	20		19		26	
90 PERCENT EXCEEDS	6.8		5.5		5.6	

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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
03...	0815	8.2	690	7.6	19.0	7.0
31...	1050	7.7	729	7.9	16.0	9.9
DEC						
05...	1220	131	474	6.6	13.5	7.8
JAN						
04...	1310	13	710	8.1	1.5	16.2
FEB						
01...	1115	47	384	6.6	3.0	11.8
MAR						
06...	0830	70	509	6.2	9.0	7.9
APR						
03...	1215	11	564	7.1	13.0	9.6
MAY						
01...	1045	21	665	6.7	14.0	8.1
JUN						
26...	1130	65	363	6.7	24.0	5.6
SEP						
11...	1300	3.7	772	8.1	23.0	--

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 mi^2.

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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
04...	0810	9.1	652	7.1	14.5	8.2
NOV						
01...	0900	6.9	633	6.8	11.0	9.2
DEC						
06...	0835	68	496	6.6	12.5	8.0
JAN						
09...	0845	36	715	7.6	0.5	11.7
FEB						
02...	0825	46	457	5.9	5.0	11.6
MAR						
20...	0820	27	546	6.8	14.0	10.1
APR						
04...	0835	15	510	6.9	12.5	8.8
MAY						
02...	0845	715	289	6.3	11.5	8.3
JUN						
27...	0855	33	342	6.3	23.5	5.7
SEP						
12...	0910	3.1	701	7.5	21.0	5.9

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 mi^2.
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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
14...	0920	17	550	7.4	15.0	9.4
NOV						
14...	0850	19	483	7.3	13.0	11.0
DEC						
13...	0910	125	428	7.6	6.0	11.4
JAN						
05...	0910	15	353	7.2	0.0	16.0
FEB						
09...	0845	41	267	6.5	1.0	16.2
MAR						
16...	0830	115	434	6.3	10.5	11.3
APR						
13...	0915	48	472	7.1	12.0	11.5
MAY						
15...	0900	--	386	7.0	18.5	9.3
JUL						
12...	0930	43	464	8.2	21.5	7.8
SEP						
19...	0945	21	446	7.9	15.5	10.1

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 mi^2, 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 ft°/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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31000	9340	108000	47500	162000	131000	63000	92200	130000	110000	22900	24300
2	39200	33000	96700	27600	142000	153000	58400	97000	121000	109000	20300	18400
3	46200	67100	80400	36500	130000	181000	45500	126000	130000	98300	36900	9780
4	47400	68500	61300	44500	128000	193000	37900	168000	136000	99000	32800	9170
5	46200	52400	86400	52900	131000	200000	42200	193000	132000	87700	26100	15400
6	40100	33300	93600	49500	137000	183000	41200	190000	134000	70800	95000	18400
7	28500	60100	114000	59800	146000	169000	55000	165000	136000	60300	164000	11400
8	15800	46600	132000	107000	134000	204000	59700	144000	126000	37600	178000	15200
9	31200	38600	134000	158000	96400	283000	69300	135000	98200	46900	167000	24300
10	28800	59600	152000	173000	84400	294000	67300	149000	89600	22800	149000	11500
11	23100	59700	162000	164000	89300	287000	70100	152000	103000	53900	136000	11900
12	29400	59000	194000	135000	68300	273000	93400	154000	115000	14300	124000	14800
13	24100	52300	224000	125000	84000	273000	103000	177000	130000	15800	104000	12200
14	18600	57300	225000	129000	52500	272000	121000	215000	172000	23800	94400	24400
15	25200	66000	200000	142000	72700	271000	119000	248000	195000	33200	52200	33100
16	30000	59300	164000	178000	166000	256000	120000	283000	186000	22100	39900	13000
17	26700	65400	143000	245000	217000	231000	113000	283000	142000	50000	48200	23200
18	24000	47000	128000	297000	255000	195000	99900	406000	68100	31900	41900	30400
19	24300	41300	112000	325000	282000	159000	94900	460000	51400	37700	61500	21900
20	27100	31600	107000	357000	284000	132000	90000	493000	58900	38500	42000	18500
21	26600	30500	99100	351000	274000	111000	112000	508000	49900	22500	38100	24400
22	18200	43200	93700	268000	248000	102000	151000	517000	66200	28400	47300	20300
23	15400	46800	78000	285000	200000	99500	157000	519000	46700	31500	27500	24200
24	33000	58500	69300	291000	176000	97300	152000	500000	54700	27800	12900	20900
25	25200	58200	74100	286000	168000	99000	156000	451000	77800	28900	16200	21000
26	21000	58400	60600	256000	156000	101000	177000	406000	63900	35300	27600	18000
27	21100	50200	53100	220000	149000	92300	172000	356000	71600	22300	33000	10800
28	31500	52100	51900	199000	147000	78400	151000	266000	78600	43800	3180	12300
29	31300	68100	41900	182000	---	68800	126000	214000	78200	61400	10700	18300
30	22200	102000	41400	191000	---	63800	108000	184000	107000	52900	31700	28800
31	21100	---	52400	183000	---	67400	---	156000	---	31800	14100	---
TOTAL	873500	1575440	3432900	5565300	4379600	5320500	3025800	8407200	3148800	1450200	1898380	560250
MEAN	28180	52510	110700	179500	156400	171600	100900	271200	105000	46780	61240	18670
MAX	47400	102000	225000	357000	284000	294000	177000	519000	195000	110000	178000	33100
MIN	15400	9340	41400	27600	52500	63800	37900	92200	46700	14300	3180	9170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1995, BY WATER YEAR (WY)

MEAN	60370	95190	163700	163500	202900	230900	205800	151900	95770	66180	54460	43990
MAX	155800	222400	334000	368700	358600	347400	360400	374700	235400	105200	148200	186500
(WY)	1980	1986	1979	1991	1994	1979	1994	1983	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1976 - 1995	
ANNUAL TOTAL	55014540		39637870			
ANNUAL MEAN	150700		108600		127500	
HIGHEST ANNUAL MEAN					188900	1979
LOWEST ANNUAL MEAN					72150	1988
HIGHEST DAILY MEAN	522000	Feb 1	519000	May 23	617000	Dec 15 1978
LOWEST DAILY MEAN	9340	Nov 1	3180	Aug 28	3180	Aug 28 1995
ANNUAL SEVEN-DAY MINIMUM	22500	Oct 26	14000	Sep 2	7650	Jul 12 1988
INSTANTANEOUS PEAK STAGE			44.32	May 23	49.08	Dec 15 1978
10 PERCENT EXCEEDS	411000		246000		282000	
50 PERCENT EXCEEDS	73000		78200		90500	
90 PERCENT EXCEEDS	30000		21600		23300	

03307000 RUSSELL CREEK NEAR COLUMBIA, KY

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

DRAINAGE AREA.--188 mi^2 (includes Butlers Fork), of which about 15 mi^2 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-Jan. 4, Feb. 1-13, and Aug. 13-31. Records good except for periods of estimated record, which are fair. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	28	154	60	185	138	69	248	271	185	29	5.0
2	28	29	116	58	165	119	66	679	1020	113	28	4.4
3	26	29	97	56	150	112	62	406	602	87	27	3.8
4	25	27	363	52	135	109	59	283	392	85	26	3.4
5	23	27	917	54	120	153	56	224	291	251	25	3.2
6	21	29	415	1090	110	358	52	175	238	131	24	3.1
7	21	33	284	2170	105	737	52	143	214	106	24	2.9
8	20	33	206	738	100	5790	50	123	196	70	57	2.8
9	27	32	165	466	95	2440	50	1700	223	53	81	2.8
10	49	34	678	348	90	1150	51	1630	164	44	41	2.9
11	47	40	1240	309	85	802	48	548	224	40	56	2.8
12	33	38	565	434	82	548	66	365	1100	39	35	3.1
13	370	31	387	357	80	407	102	1280	435	36	23	4.1
14	336	29	291	515	101	330	76	9720	278	34	18	4.5
15	130	27	228	1400	2890	274	65	4240	205	32	15	5.1
16	80	28	193	1390	2270	232	62	1110	162	43	12	11
17	58	30	205	793	1340	197	625	1140	136	40	11	42
18	46	33	189	527	767	168	524	3850	120	36	9.6	46
19	44	29	159	422	526	149	235	7950	110	40	8.2	23
20	43	26	138	447	411	143	400	1220	112	35	7.2	13
21	42	25	124	367	339	219	1680	717	121	32	6.7	9.3
22	38	24	117	299	269	187	650	490	103	30	6.2	9.4
23	37	22	112	254	229	153	679	376	95	29	5.7	8.3
24	36	20	105	216	196	127	1340	299	89	28	5.4	7.3
25	32	19	96	181	166	108	563	243	241	32	5.0	6.6
26	30	20	87	165	151	97	366	255	566	35	4.7	9.5
27	28	57	76	150	138	98	272	205	190	35	4.6	14
28	27	1640	73	242	143	98	216	730	123	34	4.4	19
29	27	464	69	380	---	85	170	549	98	33	4.2	14
30	26	239	66	275	---	79	154	334	101	32	4.0	9.9
31	27	---	63	227	---	74	---	247	---	30	3.8	---
TOTAL	1806	3142	7978	14442	11438	15681	8860	41479	8220	1850	611.7	296.2
MEAN	58.3	105	257	466	408	506	295	1338	274	59.7	19.7	9.87
MAX	370	1640	1240	2170	2890	5790	1680	9720	1100	251	81	46
MIN	20	19	63	52	80	74	48	123	89	28	3.8	2.8
CFSM	.31	.56	1.37	2.48	2.17	2.69	1.57	7.12	1.46	.32	.10	.05
IN.	.36	.62	1.58	2.86	2.26	3.10	1.75	8.21	1.63	.37	.12	.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

MEAN	73.3	209	423	480	596	575	398	279	179	131	89.8	114
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	195

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	157080		115803.9			
ANNUAL MEAN	430		317		294	
HIGHEST ANNUAL MEAN					651	1979
LOWEST ANNUAL MEAN					118	1941
HIGHEST DAILY MEAN	8690	Mar 9	9720	May 14	25000	Dec 9 1978
LOWEST DAILY MEAN	19	Nov 25	2.8	Sep 8	.40	Sep 25 1952
ANNUAL SEVEN-DAY MINIMUM	22	Nov 20	2.9	Sep 6	.47	Oct 19 1953
INSTANTANEOUS PEAK FLOW			18100	May 14	40600	Sep 1 1982
INSTANTANEOUS PEAK STAGE			20.93	May 14	26.12	Sep 1 1982
INSTANTANEOUS LOW FLOW					5.7	Sep 2 1993
ANNUAL RUNOFF (CFSM)	2.29		1.69		1.56	
ANNUAL RUNOFF (INCHES)	31.08		22.91		21.25	
10 PERCENT EXCEEDS	1070		678		632	
50 PERCENT EXCEEDS	155		98		101	
90 PERCENT EXCEEDS	28		11		15	

03307260 LITTLE PITMAN CREEK NEAR CAMPBELLSVILLE, KY

LOCATION.--Lat 37°20'50", long 85°23'25", Taylor County, Hydrologic Unit 05110001, on right bank at bridge on county road 323, 0.6 mi downstream from Buck Creek, 2.4 mi wset of Campbellsville, and at mile 9.1.

DRAINAGE AREA.--19.3 mi^2.

PERIOD OF RECORD.--August 1990 to September 1994. (discontinued)

GAGE.--Water-stage recorder. Datum of gage is 685.93 ft above sea level.

REMARKS.--Estimated daily discharges: Dec. 28 to Jan. 5, Feb. 4-13, June 25 to Aug. 3, Aug. 14-20, 23-27, and Aug. 29 to Sept. 1. Records good except for periods of estimated record, which are fair. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section. Flow partially regulated by the city of Campbellsville.

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	6.7	11	11	9.0	43	25	17	88	65	14	7.4	5.6
2	5.4	8.7	9.3	8.7	39	23	17	97	567	12	9.0	6.8
3	8.6	8.0	7.6	8.4	34	22	17	62	129	11	11	6.3
4	7.5	7.1	66	8.1	30	21	15	53	85	10	11	6.4
5	8.0	8.4	39	9.3	27	57	15	45	65	20	13	6.0
6	8.0	9.0	24	246	24	115	14	37	52	40	12	4.6
7	8.4	9.7	19	131	22	511	14	33	43	30	12	6.8
8	6.0	8.2	16	75	21	671	12	30	36	20	77	7.0
9	15	11	22	56	19	172	22	421	66	15	50	7.2
10	10	11	223	47	18	115	20	150	35	13	23	10
11	8.8	8.0	95	53	17	87	16	91	34	12	17	12
12	8.3	7.9	54	51	16	67	31	67	61	11	14	12
13	34	7.3	39	43	15	54	21	317	35	10	13	30
14	13	9.3	29	83	20	46	17	1330	30	9.2	12	11
15	9.1	8.5	25	169	400	40	16	198	26	8.7	11	7.8
16	7.9	9.0	30	144	296	35	16	128	24	8.2	9.4	34
17	8.2	8.7	30	90	149	31	53	382	22	7.9	9.0	18
18	8.2	6.9	24	70	100	27	33	1880	20	7.6	8.4	12
19	14	5.9	21	65	77	25	46	399	19	7.4	8.0	9.9
20	11	6.4	18	59	63	32	110	166	18	7.1	7.5	9.7
21	7.5	8.8	16	48	52	31	257	114	18	7.0	13	8.5
22	8.5	8.7	19	41	44	24	102	86	20	10	11	6.5
23	7.1	7.2	17	37	39	22	125	66	17	15	9.2	5.5
24	8.7	5.6	15	32	35	20	141	54	14	11	8.2	4.7
25	8.7	5.4	14	29	30	17	87	47	15	9.6	7.2	7.1
26	9.3	6.0	13	27	29	17	65	41	18	8.6	6.8	7.7
27	8.5	66	12	27	30	33	54	36	21	7.8	6.4	6.2
28	7.2	47	12	117	30	24	45	116	18	7.1	11	6.4
29	5.5	19	11	78	---	21	38	53	16	6.7	8.4	5.0
30	5.5	14	10	59	---	19	36	41	15	6.4	7.4	4.1
31	9.5	---	9.5	48	---	18	---	35	---	6.2	6.1	---
TOTAL	292.1	357.7	950.4	1968.5	1719	2422	1472	6663	1604	369.5	429.4	284.8
MEAN	9.42	11.9	30.7	63.5	61.4	78.1	49.1	215	53.5	11.9	13.9	9.49
MAX	34	66	223	246	400	671	257	1880	567	40	77	34
MIN	5.4	5.4	7.6	8.1	15	17	12	30	14	6.2	6.1	4.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1995, BY WATER YEAR (WY)

MEAN	11.7	16.8	70.1	69.8	77.6	87.3	41.7	59.1	25.5	17.8	12.4	13.5
MAX	12.5	23.4	150	90.1	127	149	71.6	215	53.5	49.4	21.0	27.1
(WY)	1992	1994	1991	1994	1991	1994	1994	1995	1995	1992	1992	1992
MIN	9.42	9.99	27.9	48.9	30.0	61.7	24.7	11.1	10.1	8.84	8.01	7.11
(WY)	1995	1992	1993	1993	1992	1993	1993	1991	1991	1991	1993	1990

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1990 - 1995	
ANNUAL TOTAL	16563.7		18532.4			
ANNUAL MEAN	45.4		50.8		42.0	
HIGHEST ANNUAL MEAN					50.8	1995
LOWEST ANNUAL MEAN					24.8	1993
HIGHEST DAILY MEAN	1570	Mar 9	1880	May 18	1880	May 18 1995
LOWEST DAILY MEAN	3.4	Jul 11	4.1	Sep 30	2.2	Sep 3 1990
ANNUAL SEVEN-DAY MINIMUM	5.3	Jul 5	5.9	Sep 24	3.8	Aug 31 1990
INSTANTANEOUS PEAK FLOW			6510	May 18	6510	May 18 1995
INSTANTANEOUS PEAK STAGE			10.58	May 18	10.58	May 18 1995
10 PERCENT EXCEEDS	95		93		83	
50 PERCENT EXCEEDS	16		18		17	
90 PERCENT EXCEEDS	7.1		7.1		6.7	

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 Munfordville, and at mile 225.9.

DRAINAGE AREA.--1,673 mi^2, of which about 180 mi^2 does not contribute directly to surface runoff.

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: Jan. 1-5 and Feb. 9, 10. Records good except for periods of estimated record, which are fair. 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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	320	864	2720	550	4670	3360	748	4130	7070	1570	348	203
2	353	859	2460	540	4650	2260	711	4600	9500	1360	332	200
3	344	858	1620	530	4540	1190	678	4290	11700	1270	309	198
4	336	855	1070	522	4440	1050	652	3970	7920	910	294	197
5	327	856	3280	520	4340	1070	619	3750	7480	990	301	196
6	314	873	3690	1200	4220	2020	598	3470	7070	1770	336	195
7	247	862	3360	10800	4120	3930	590	3070	6880	1180	340	192
8	229	856	2980	6780	4070	17500	581	2350	6970	973	1610	192
9	242	861	2630	3900	3800	24000	573	4630	7730	896	2540	190
10	250	871	2930	4490	3400	15600	574	14400	7450	737	1360	189
11	257	869	8470	4960	2550	6950	572	7050	6870	614	685	190
12	252	858	5550	5030	1380	6800	637	5140	7020	538	506	189
13	329	867	3660	5170	1070	6610	776	7450	6740	487	522	332
14	509	865	3830	5540	990	6120	757	19000	5670	428	466	356
15	907	862	3560	6690	5490	5690	689	27700	5030	413	432	332
16	688	1020	3380	7290	14500	5370	625	25900	4440	457	412	280
17	684	1040	3360	5990	12600	5100	842	17200	4300	648	395	357
18	636	1030	3110	3940	8090	4890	2850	17900	4210	485	377	418
19	915	1020	1980	2960	6760	4260	2250	30500	4160	438	293	322
20	1020	1020	1740	2450	6010	3130	2380	33700	4110	392	269	323
21	1360	1030	1570	2140	5780	2400	10300	24000	4080	373	255	280
22	1370	1010	1520	1760	5300	1810	9140	8180	4150	355	244	249
23	1350	1010	1400	1440	4960	1600	5740	5760	4280	359	233	225
24	1330	1140	1060	1230	4750	1390	7970	7250	4260	371	227	213
25	1310	1160	982	1080	4550	1240	7240	7420	4250	389	223	205
26	1240	1160	832	957	4420	1030	5930	7580	4380	404	225	204
27	909	1360	723	895	4320	993	5490	7480	4560	401	221	209
28	863	3610	639	925	4090	1050	5050	7860	4310	567	217	211
29	860	5130	599	2460	---	1000	4740	9020	4180	638	215	209
30	856	2940	575	2480	---	932	4540	6750	3370	439	209	201
31	863	---	565	3800	---	835	---	6860	---	375	205	---
TOTAL	21470	37616	75845	99019	139860	141180	84842	338360	174140	21227	14601	7257
MEAN	693	1254	2447	3194	4995	4554	2828	10910	5805	685	471	242
MAX	1370	5130	8470	10800	14500	24000	10300	33700	11700	1770	2540	418
MIN	229	855	565	520	990	835	572	2350	3370	355	205	189

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1995, BY WATER YEAR (WY)

MEAN	1368	2514	4388	4727	5702	4776	3697	3423	2109	1058	925	1386
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1970 - 1995	
ANNUAL TOTAL	1277875		1155417			
ANNUAL MEAN	3501		3166		2992	
HIGHEST ANNUAL MEAN					5285	1979
LOWEST ANNUAL MEAN					1348	1988
HIGHEST DAILY MEAN	33900	Mar 11	33700	May 20	62800	May 8 1984
LOWEST DAILY MEAN	218	Sep 16	189	Sep 10	157	Jul 8 1988
ANNUAL SEVEN-DAY MINIMUM	225	Sep 13	191	Sep 6	160	Jul 5 1988
INSTANTANEOUS PEAK FLOW			34400	May 20	76800	Mar 1 1962
INSTANTANEOUS PEAK STAGE			39.19	May 20	57.72	Mar 1 1962
INSTANTANEOUS LOW FLOW					157	Jul 8 1988
10 PERCENT EXCEEDS	8200		7140		7090	
50 PERCENT EXCEEDS	1160		1200		1520	
90 PERCENT EXCEEDS	312		254		291	

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 mi^2, of which about 120 mi^2 does not contribute directly to surface runoff.

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

GAGE.--Water-stage recorder. Datum of gage is 583.08 ft above sea level. Prior to Jan. 8, 1960, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 1-5, Feb. 2-14. Records good except for periods of estimated record, which are fair. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section

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	49	52	86	118	446	390	232	356	573	195	94	87
2	46	50	74	112	410	358	224	832	561	197	109	121
3	45	49	68	109	370	335	216	668	624	168	108	111
4	44	50	104	105	345	317	208	525	603	156	96	91
5	44	51	345	102	320	317	199	462	504	769	100	82
6	45	52	285	195	300	399	192	409	464	912	333	78
7	44	51	187	1460	280	493	188	363	431	460	203	75
8	44	54	144	824	260	2170	184	332	404	345	1820	73
9	46	55	132	503	245	2850	182	1060	387	292	3270	71
10	46	54	432	404	232	1550	176	1810	395	244	1100	68
11	50	58	1210	366	225	1180	173	920	371	212	658	70
12	50	63	620	466	210	976	186	694	565	193	518	67
13	53	60	415	445	198	831	208	1280	557	176	420	461
14	57	56	331	574	190	729	189	5180	424	159	344	268
15	62	54	275	1710	1580	651	170	7370	367	173	286	161
16	58	54	249	1250	3170	587	163	3540	333	308	250	178
17	53	56	325	917	2660	532	159	2740	304	179	220	574
18	51	57	326	747	1540	483	161	5830	282	155	200	331
19	56	57	284	650	1170	444	161	8520	269	139	181	223
20	93	55	248	610	974	420	178	5970	263	128	164	176
21	74	54	220	540	837	427	638	2180	258	121	151	150
22	66	52	203	472	721	408	983	1600	240	118	141	132
23	62	52	190	427	643	369	581	1320	224	120	131	119
24	58	51	180	390	581	336	963	1140	262	137	121	109
25	55	50	167	356	523	309	750	999	438	169	116	102
26	55	50	158	329	482	292	577	919	287	141	111	97
27	54	63	148	310	446	285	483	823	241	130	106	93
28	51	151	140	374	419	283	422	884	221	114	101	89
29	50	131	132	741	---	267	368	782	200	106	97	83
30	51	104	126	577	---	255	333	708	192	100	92	79
31	53	---	121	492	---	242	---	616	---	96	88	---
TOTAL	1665	1846	7925	16675	19777	19485	9847	60832	11244	6912	11729	4419
MEAN	53.7	61.5	256	538	706	629	328	1962	375	223	378	147
MAX	93	151	1210	1710	3170	2850	983	8520	624	912	3270	574
MIN	44	49	68	102	190	242	159	332	192	96	88	67
CFSM	.15	.17	.72	1.51	1.98	1.76	.92	5.50	1.05	.62	1.06	.41
IN.	.17	.19	.83	1.74	2.06	2.03	1.03	6.34	1.17	.72	1.22	.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1995, BY WATER YEAR (WY)

MEAN	144	291	636	680	908	936	763	589	284	241	178	205
MAX	692	1206	2356	1603	3807	2571	2447	2715	717	972	966	2258
(WY)	1978	1989	1979	1974	1989	1964	1972	1983	1981	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1960 - 1995	
ANNUAL TOTAL	186556		172356			
ANNUAL MEAN	511		472		486	
HIGHEST ANNUAL MEAN					971	1979
LOWEST ANNUAL MEAN					283	1977
HIGHEST DAILY MEAN	7280	Mar 11	8520	May 19	17500	Feb 16 1989
LOWEST DAILY MEAN	44	Oct 4	44	Oct 4	32	Sep 11 1964
ANNUAL SEVEN-DAY MINIMUM	45	Oct 2	45	Oct 2	33	Sep 9 1964
INSTANTANEOUS PEAK FLOW			9050	May 19	19400	Apr 29 1970
INSTANTANEOUS PEAK STAGE			24.50	May 19	34.86	Apr 29 1970
INSTANTANEOUS LOW FLOW					31	Oct 1 1959
ANNUAL RUNOFF (CFSM)	1.43		1.32		1.36	
ANNUAL RUNOFF (INCHES)	19.44		17.96		18.50	
10 PERCENT EXCEEDS	1320		919		1050	
50 PERCENT EXCEEDS	154		225		237	
90 PERCENT EXCEEDS	51		54		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 mi^2, of which about 223 mi^2 does not contribute directly to surface runoff. Area at site used Oct. 1, 1960, to Sept. 30, 1973, 707 mi^2.

WATER-DISCHARGE RECORDS

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.-Estimated daily discharge Dec. 2. 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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	264	1300	333	143	1410	706	47	52	7290	331	266	52
2	264	1300	237	143	1410	534	47	355	6540	330	266	52
3	264	1290	141	143	941	476	47	539	2920	330	199	52
4	263	1290	141	143	477	476	47	1150	3190	330	131	52
5	263	1280	142	143	477	476	47	1660	5670	331	131	52
6	263	1280	142	143	477	477	47	1690	6330	332	131	52
7	263	1270	142	145	477	478	47	1650	6850	304	131	52
8	263	1270	142	146	477	485	47	1470	6730	269	200	52
9	263	1260	142	147	477	493	48	1380	5790	269	448	52
10	263	1250	143	1280	477	499	48	1260	5750	882	1290	52
11	262	1250	145	1910	477	502	48	558	5700	1110	2200	52
12	262	1240	1270	1900	349	505	48	1470	5660	1100	2060	52
13	262	1240	2140	1890	286	819	48	1550	5610	684	1380	102
14	262	1230	2360	1890	286	1020	48	356	4460	267	1090	205
15	262	1230	1680	1900	289	1020	48	292	2740	267	1090	427
16	262	1220	785	1910	297	783	48	296	1390	267	886	535
17	749	1210	477	1910	303	507	48	300	834	267	534	535
18	1100	1070	477	1910	307	508	49	304	441	267	533	535
19	1100	968	477	1900	1520	508	49	94	330	267	355	535
20	1100	964	477	1890	3760	508	49	0	330	267	266	535
21	1090	959	477	1880	4080	509	50	0	331	267	266	534
22	1090	955	477	1870	4040	339	50	0	494	267	266	534
23	1090	950	477	1310	3990	255	51	1800	551	267	266	533
24	1090	946	477	478	3940	178	51	3750	441	267	193	532
25	1080	941	476	478	3890	102	51	3740	331	267	168	532
26	1240	936	476	478	3830	102	51	3730	331	267	168	531
27	1330	932	380	478	3100	102	52	3720	331	267	168	530
28	1320	930	214	479	1230	102	52	3720	331	267	110	530
29	1320	926	143	480	---	65	52	3710	331	267	52	529
30	1310	641	143	481	---	47	301	4970	331	267	52	528
31	1310	---	143	1050	---	47	---	6910	---	266	52	---
TOTAL	21524	33528	15876	31048	43074	13628	1716	52476	88358	11407	15348	9346
MEAN	694	1118	512	1002	1538	440	57.2	1693	2945	368	495	312
MAX	1330	1300	2360	1910	4080	1020	301	6910	7290	1110	2200	535
MIN	262	641	141	143	286	47	47	.00	330	266	52	52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1995, BY WATER YEAR (WY)

MEAN	901	1345	1274	1583	1609	1217	821	1093	810	495	300	544
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1964 - 1995	
ANNUAL TOTAL	336674		337329.00			
ANNUAL MEAN	922		924		996	
HIGHEST ANNUAL MEAN					1880	1989
LOWEST ANNUAL MEAN					597	1969
HIGHEST DAILY MEAN	6030	Mar5	7290	Jun 1	10300	May 28 1983
LOWEST DAILY MEAN	52	Aug5	.00	May 20	.00	May 2 1964
ANNUAL SEVEN-DAY MINIMUM	86	Aug2	47	Mar 30	.00	May 2 1964
INSTANTANEOUS PEAK FLOW					22700	Jan 30 1932
INSTANTANEOUS PEAK STAGE			43.05	May 21	59.27	Mar 2 1962
10 PERCENT EXCEEDS	2800		1910		2490	
50 PERCENT EXCEEDS	471		477		470	
90 PERCENT EXCEEDS	131		52		53	

GREEN RIVER BASIN

03311000 NOLIN RIVER AT KYROCK, KY--Continued

WATER-QUALITY RECORDS

LOCATION.--Water tempertaure collected 0.4 mi downstream from Nolin River Dam, and at mile 7.4.

DRAINAGE AREA.--707 mi^2, including that of Dismal Creek, of which about 223 mi^2 does not contribute directly to surface runoff.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Water years 1950, 1963-82, August 1989 to current year.

INSTRUMENTATION.--Temperature recorder since August 1989.

REMARKS.--Specific conductance and temperature measurements made in conjuction with discharge measurements published in the miscellaneous water-quality section.

COOPERATION.--Daily temperatue records were furnished by U.S. Army Corps of Engineers, water years 1950, 1963-1982.

EXTREMES FOR PERIOD OF DAILY RECORD.--Maximum daily, 31.0°C July 19-22, 1969; minimum daily, 0.0°C on many days during winter period 1978, and December 17, 18, 27, 1989.

EXTREMES FOR CURRENT PERIOD.--Maximum, 24.6°C, Aug. 30; minimum, 4.6°C, Feb. 13-15, 20-22.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.1	17.3	17.7	16.5	16.5	16.5	13.1	12.4	12.8	---	---	---
2	18.5	18.1	18.2	16.5	16.5	16.5	12.4	12.4	12.4	7.4	7.1	7.2
3	18.9	18.5	18.6	16.5	16.5	16.5	12.4	12.1	12.1	7.1	6.7	6.7
4	18.9	18.1	18.3	16.5	16.5	16.5	12.4	12.1	12.4	6.7	6.0	6.5
5	18.5	17.7	18.0	16.5	16.5	16.5	12.4	12.4	12.4	6.0	5.7	5.8
6	18.1	17.7	17.8	16.5	16.1	16.5	12.4	12.1	12.1	---	---	---
7	18.1	17.7	17.8	16.5	16.1	16.3	12.1	11.7	12.0	---	---	---
8	18.1	17.7	18.0	16.5	16.1	16.1	11.7	11.7	11.7	---	---	---
9	18.1	17.7	17.8	16.1	16.1	16.1	11.7	11.3	11.7	6.7	6.4	6.4
10	17.7	16.9	17.2	16.1	16.1	16.1	11.3	10.6	11.1	6.7	6.4	6.6
11	17.3	16.5	16.9	16.1	15.8	16.0	11.0	10.6	10.7	6.7	6.7	6.7
12	17.3	16.5	16.9	16.1	15.8	15.8	10.6	10.6	10.6	6.7	6.4	6.7
13	17.3	16.1	16.7	15.8	15.8	15.8	11.0	10.6	10.6	6.7	6.7	6.7
14	17.3	16.9	17.2	15.8	15.8	15.8	10.6	10.6	10.6	7.1	6.7	7.1
15	17.7	17.3	17.4	15.8	15.8	15.8	10.6	10.2	10.3	7.1	7.1	7.1
16	17.7	17.3	17.7	15.8	15.4	15.6	10.2	10.2	10.2	7.1	6.7	6.8
17	17.7	15.0	16.7	15.4	15.4	15.4	10.2	10.2	10.2	6.7	6.7	6.7
18	15.0	14.6	14.7	15.4	15.4	15.4	10.2	9.9	9.9	6.7	6.7	6.7
19	14.6	14.3	14.4	15.4	15.0	15.2	9.9	9.9	9.9	6.7	6.4	6.7
20	14.3	14.3	14.3	15.0	15.0	15.0	9.9	9.5	9.6	6.7	6.4	6.6
21	14.3	14.3	14.3	15.0	15.0	15.0	9.5	9.3	9.5	6.4	6.4	6.4
22	14.6	14.3	14.4	15.0	14.6	14.8	9.5	9.2	9.5	6.4	6.0	6.2
23	14.6	14.6	14.6	14.6	14.3	14.5	9.5	9.2	9.4	6.0	6.0	6.0
24	15.0	14.6	14.7	14.6	14.3	14.3	9.2	9.2	9.2	6.0	6.0	6.0
25	15.0	15.0	15.0	14.3	13.9	13.9	9.2	8.8	9.1	6.0	6.0	6.0
26	15.8	15.0	15.4	13.9	13.5	13.9	9.2	8.8	8.9	6.0	6.0	6.0
27	16.1	15.8	15.9	13.9	13.5	13.5	8.8	8.8	8.8	6.0	6.0	6.0
28	16.1	16.1	16.1	13.5	13.5	13.5	8.8	8.1	8.3	6.0	6.0	6.0
29	16.1	16.1	16.1	13.5	13.1	13.3	8.1	8.1	8.1	6.0	6.0	6.0
30	16.5	16.1	16.3	13.1	13.1	13.1	8.1	7.8	7.9	6.0	5.7	6.0
31	16.5	16.5	16.5	---	---	---	---	---	---	6.0	5.7	5.8
MONTH	18.9	14.3	16.5	16.5	13.1	15.3	---	---	---	---	---	---

GREEN RIVER BASIN

03311000 NOLIN RIVER AT KYROCK, KY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	5.7	5.7	5.7	6.7	6.4	6.6	9.9	9.2	9.5	13.5	13.1	13.3
2	6.0	5.7	5.8	6.7	6.7	6.7	10.2	9.2	9.7	15.0	13.1	13.6
3	6.0	5.7	6.0	6.7	6.4	6.7	10.2	9.5	9.8	13.9	13.5	13.6
4	6.0	5.7	6.0	6.7	6.7	6.7	10.2	9.9	10.0	13.5	12.4	13.2
5	6.0	5.7	5.8	6.7	6.7	6.7	10.2	9.5	9.9	12.4	11.7	12.0
6	5.7	5.7	5.7	7.1	6.7	6.8	10.6	9.9	10.1	11.7	11.7	11.7
7	5.7	5.3	5.7	7.1	7.1	7.1	11.0	10.2	10.6	11.7	11.7	11.7
8	5.7	5.3	5.3	7.1	7.1	7.1	11.3	11.0	11.1	11.7	11.3	11.6
9	---	---	---	7.1	6.7	7.0	11.3	11.0	11.1	11.7	11.0	11.2
10	5.3	4.9	5.2	7.1	6.7	7.1	12.1	11.3	11.5	11.3	11.0	11.3
11	4.9	4.9	4.9	7.1	7.1	7.1	12.4	12.1	12.1	11.0	10.6	10.8
12	4.9	4.9	4.9	7.1	7.1	7.1	12.4	11.7	12.1	11.3	10.6	10.7
13	4.9	4.6	4.8	7.4	7.1	7.3	12.1	11.3	11.5	11.7	11.3	11.5
14	4.9	4.6	4.8	7.4	7.4	7.4	12.1	11.3	11.7	11.7	11.3	11.5
15	4.9	4.6	4.6	7.4	7.4	7.4	12.4	11.7	12.0	11.3	11.0	11.1
16	4.9	4.9	4.9	7.8	7.4	7.6	12.8	12.4	12.5	11.0	10.6	10.8
17	4.9	4.9	4.9	7.8	7.4	7.7	13.1	12.8	12.9	11.0	10.6	10.8
18	4.9	4.9	4.9	7.8	7.8	7.8	13.1	13.1	13.1	11.3	11.0	11.1
19	4.9	4.9	4.9	7.8	7.8	7.8	13.1	12.8	12.9	11.3	11.3	11.3
20	4.9	4.6	4.8	7.8	7.8	7.8	13.1	12.8	13.1	11.3	11.3	11.3
21	4.9	4.6	4.8	7.8	7.8	7.8	13.5	13.1	13.1	11.3	11.3	11.3
22	4.9	4.6	4.7	8.1	7.8	8.0	13.5	13.1	13.2	12.4	11.3	11.8
23	4.9	4.9	4.9	8.1	7.8	8.1	13.1	13.1	13.1	12.8	12.4	12.6
24	5.3	4.9	5.0	8.1	8.1	8.1	13.5	13.1	13.1	13.5	12.8	13.1
25	5.3	5.3	5.3	8.1	7.8	8.0	13.5	13.5	13.5	13.9	13.5	13.6
26	5.7	5.3	5.6	8.1	7.8	8.0	13.5	13.5	13.5	13.9	13.9	13.9
27	---	---	---	8.5	8.1	8.2	13.5	13.1	13.3	14.3	13.9	14.3
28	6.4	6.0	6.4	8.5	8.1	8.4	13.1	12.8	13.0	14.6	14.3	14.4
29	---	---	---	9.2	8.1	8.4	13.5	13.1	13.2	14.6	14.6	14.6
30	---	---	---	9.5	9.2	9.3	13.5	13.1	13.3	15.4	14.6	14.9
31	---	---	---	9.9	9.2	9.5	---	---	---	15.8	15.4	15.5
MONTH	---	---	---	9.9	6.4	7.6	13.5	9.2	12.0	15.8	10.6	12.4
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.1	15.8	15.8	16.5	16.1	16.4	20.5	20.5	20.5	23.8	22.9	23.1
2	16.1	15.8	16.0	16.5	16.1	16.3	20.9	20.5	20.6	22.9	20.9	21.7
3	16.1	15.4	15.8	16.5	16.1	16.4	---	---	---	21.7	20.1	20.9
4	15.8	15.0	15.4	16.5	16.5	16.5	21.7	20.9	21.3	21.3	19.7	20.6
5	16.1	15.8	15.9	16.9	16.5	16.8	22.9	21.3	22.0	21.3	20.1	20.8
6	16.1	16.1	16.1	16.9	16.5	16.5	22.1	21.3	21.6	21.3	20.1	20.7
7	16.5	16.1	16.4	18.5	16.5	16.9	22.9	21.3	21.5	21.3	19.7	20.3
8	16.5	16.5	16.5	20.5	18.5	19.8	22.5	21.3	21.8	20.9	20.1	20.3
9	16.5	16.5	16.5	21.3	20.5	20.8	21.3	20.9	21.0	20.9	20.1	20.4
10	16.5	16.5	16.5	21.3	19.3	20.4	20.9	19.3	20.4	20.5	19.7	20.0
11	16.5	16.5	16.5	19.3	18.5	18.6	19.3	18.9	19.0	20.5	19.3	19.8
12	16.9	16.5	16.8	18.5	18.5	18.5	18.9	18.9	18.9	21.3	20.0	20.7
13	16.9	16.9	16.9	18.9	18.5	18.7	19.3	18.9	18.9	21.7	20.9	21.3
14	16.9	16.9	16.9	19.3	18.9	19.1	19.3	19.3	19.3	21.7	21.3	21.4
15	16.9	16.9	16.9	19.7	19.3	19.4	19.3	19.3	19.3	22.1	21.7	21.8
16	16.9	16.5	16.7	19.7	19.3	19.6	20.1	19.3	19.5	22.1	21.7	21.9
17	16.5	16.5	16.5	19.7	19.7	19.7	21.3	20.1	21.0	22.1	21.7	22.0
18	16.5	16.5	16.5	19.7	19.7	19.7	21.7	21.3	21.7	22.1	22.1	22.1
19	16.5	16.5	16.5	19.7	19.7	19.7	22.1	21.7	22.0	22.1	21.7	21.8
20	16.5	16.1	16.5	19.7	19.7	19.7	22.1	21.7	21.9	22.1	21.7	21.7
21	16.5	16.1	16.5	20.1	19.7	19.8	22.5	22.1	22.2	21.7	21.7	21.7
22	16.5	16.1	16.4	21.7	19.7	20.4	22.5	22.1	22.2	21.7	21.3	21.4
23	16.5	16.5	16.5	22.1	21.7	21.9	22.1	21.7	22.0	21.3	20.5	20.9
24	16.5	16.5	16.5	22.5	22.1	22.3	22.1	21.7	21.9	20.9	20.5	20.5
25	16.5	16.0	16.4	22.5	21.3	22.0	22.5	21.7	22.0	20.5	20.1	20.4
26	16.5	16.1	16.4	21.3	20.5	20.9	22.5	21.7	22.2	20.5	20.1	20.3
27	16.5	16.1	16.4	20.5	20.5	20.5	22.9	22.1	22.5	20.1	20.1	20.1
28	16.5	16.1	16.4	20.5	20.5	20.5	22.9	22.1	22.6	20.5	20.1	20.1
29	16.5	16.1	16.4	20.5	20.5	20.5	23.3	22.1	22.6	20.5	20.1	20.2
30	16.5	16.1	16.4	20.5	20.5	20.5	24.6	22.5	23.1	20.5	20.1	20.2
31	---	---	---	20.5	20.5	20.5	23.8	22.5	23.2	---	---	---
MONTH	16.9	15.0	16.4	22.5	16.1	19.3	---	---	---	23.8	19.3	21.0

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 mi^2.

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: Dec. 28 to Jan. 3, Jan. 5, Feb. 1-5, 10-13. Records good. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	8.4	7.4	44	17	62	51	34	74	107	23	11	5.0
2	8.4	6.9	35	16	54	46	33	172	247	21	11	5.0
3	8.4	6.5	30	16	52	43	32	103	194	20	11	4.9
4	8.3	6.0	53	17	47	41	31	76	127	20	10	5.0
5	8.0	6.4	187	18	43	45	30	64	100	63	11	5.0
6	7.8	12	106	435	40	161	29	54	85	45	12	4.9
7	7.8	12	70	888	38	611	29	48	71	31	11	4.7
8	7.8	11	52	346	37	2260	28	45	61	25	13	4.7
9	12	11	44	207	33	859	27	1190	57	22	14	4.7
10	17	12	370	141	31	441	26	811	49	20	11	4.7
11	12	13	499	118	30	339	25	315	54	19	9.7	4.9
12	11	9.7	221	119	29	282	34	215	324	18	9.2	5.2
13	55	8.7	138	102	28	232	33	242	153	17	8.7	5.5
14	57	7.7	94	584	30	165	28	516	86	16	8.2	5.5
15	31	7.5	69	984	1190	139	26	386	64	16	8.1	5.5
16	22	7.7	60	560	1140	122	25	299	54	16	8.0	6.7
17	17	7.3	72	347	791	103	26	310	46	15	7.5	8.4
18	15	6.8	63	247	436	87	26	1330	42	15	7.2	7.6
19	15	6.0	51	200	300	76	25	2490	39	14	6.9	6.3
20	15	5.5	45	161	220	69	70	650	38	13	7.0	5.9
21	14	5.0	40	121	170	71	552	373	36	13	7.1	5.8
22	13	4.7	38	97	127	64	227	291	32	28	6.7	5.8
23	12	4.2	36	84	110	56	128	241	30	25	6.1	5.8
24	11	3.7	33	70	90	49	229	169	29	21	5.8	5.6
25	10	3.6	29	61	75	44	138	125	29	17	5.7	5.6
26	9.9	4.2	27	55	68	42	95	107	36	15	5.5	6.0
27	9.3	25	24	51	61	41	75	94	32	14	5.2	6.0
28	8.8	494	22	77	57	39	62	501	26	13	5.2	6.0
29	8.3	151	20	107	---	37	53	260	25	12	5.2	6.0
30	7.7	68	19	76	---	36	51	157	24	12	5.0	5.8
31	7.4	---	18	66	---	35	---	111	---	11	5.0	---
TOTAL	455.3	934.5	2609	6388	5389	6686	2227	11819	2297	630	258.0	168.5
MEAN	14.7	31.1	84.2	206	192	216	74.2	381	76.6	20.3	8.32	5.62
MAX	57	494	499	984	1190	2260	552	2490	324	63	14	8.4
MIN	7.4	3.6	18	16	28	35	25	45	24	11	5.0	4.7
CFSM	.30	.63	1.70	4.15	3.88	4.35	1.50	7.69	1.54	.41	.17	.11
IN.	.34	.70	1.96	4.79	4.04	5.01	1.67	8.86	1.72	.47	.19	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

MEAN	13.9	29.2	111	155	214	245	127	127	87.7	25.1	16.4	14.2
MAX	21.9	32.6	156	206	489	473	307	381	233	50.1	39.2	36.4
(WY)	1992	1993	1992	1995	1994	1994	1994	1995	1992	1992	1994	1992
MIN	6.96	26.4	72.2	107	78.8	137	63.2	38.8	19.9	7.41	4.53	3.71
(WY)	1994	1992	1993	1993	1992	1993	1993	1994	1993	1993	1993	1993

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1992 - 1995	
ANNUAL TOTAL	50704.3		39861.3			
ANNUAL MEAN	139		109		96.6	
HIGHEST ANNUAL MEAN					142	1994
LOWEST ANNUAL MEAN					49.7	1993
HIGHEST DAILY MEAN	2930	Mar 9	2490	May 19	2930	Mar 9 1994
LOWEST DAILY MEAN	3.6	Nov 25	3.6	Nov 25	1.7	Sep 14 1993
ANNUAL SEVEN-DAY MINIMUM	4.4	Nov 20	4.4	Nov 20	1.8	Sep 8 1993
INSTANTANEOUS PEAK FLOW			4260	May 19	6620	Jun 18 1992
INSTANTANEOUS PEAK STAGE			13.32	May 19	15.10	Jun 18 1992
ANNUAL RUNOFF (CFSM)	2.80		2.20		1.95	
ANNUAL RUNOFF (INCHES)	38.03		29.90		26.47	
10 PERCENT EXCEEDS	389		269		208	
50 PERCENT EXCEEDS	31		31		33	
90 PERCENT EXCEEDS	9.1		5.9		5.8	

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 mi^2, of which about 19 mi^2 does not contribute directly to surface runoff.

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

GAGE.--Water-stage recorder and broad-crested weir. Datum of gage is 581.54 ft above sea level. Prior to Oct. 1, 1981, at site 0.8 mi upstream at datum 8.05 ft lower.

REMARKS.--Estimated daily discharges: Feb. 10-12, Aug. 28 to Sept. 15 and Sept. 19-30. Records good except for discharge below 5.0 ft^3/s and periods of estimated record, which are poor. Subsequent to Apr. 24, 1976, records of daily discharge less than about 300 ft^3/s does not include approximately 3 ft^3/s which is diverted by city of Franklin for municipal supply. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	25	24	159	55	158	94	61	86	76	143	13	11
2	23	23	120	52	155	85	61	184	124	71	16	10
3	22	23	97	48	144	79	56	139	116	51	19	9.4
4	18	22	175	44	132	76	54	108	84	42	14	9.0
5	19	23	398	41	116	89	48	95	69	49	20	8.4
6	19	27	274	343	102	157	49	82	62	47	26	8.8
7	19	33	204	855	97	634	49	70	59	40	43	9.0
8	16	32	161	383	94	2600	48	64	54	34	47	8.8
9	26	33	137	274	85	1160	47	772	50	32	33	8.6
10	36	32	519	209	80	761	44	685	44	42	85	8.4
11	31	31	774	189	76	503	43	310	45	31	57	8.2
12	25	29	399	230	72	387	55	204	53	27	44	7.8
13	74	26	287	205	70	312	66	153	50	26	38	7.0
14	98	24	216	603	71	253	57	525	41	24	36	6.8
15	76	23	173	998	1110	214	50	556	37	25	35	6.6
16	56	23	143	1020	1110	189	46	347	34	25	35	9.5
17	43	23	166	594	805	165	46	349	32	24	30	12
18	40	24	165	398	513	146	45	1420	29	22	27	9.8
19	36	23	143	461	382	130	45	2220	30	20	25	9.0
20	33	22	126	480	307	127	73	956	91	19	24	8.6
21	29	22	113	363	253	123	534	541	69	19	26	7.6
22	27	19	104	299	203	110	282	369	50	20	21	6.4
23	25	18	96	247	178	104	184	272	42	25	15	6.0
24	29	18	90	206	154	91	162	214	43	26	14	5.8
25	33	18	82	174	132	87	124	171	42	27	13	5.6
26	29	19	75	154	122	82	100	154	37	27	12	6.6
27	26	56	75	141	112	77	85	129	33	34	12	7.0
28	23	1440	68	199	106	73	76	117	30	28	12	6.4
29	23	418	63	239	---	71	68	105	28	17	13	6.2
30	24	249	59	191	---	65	68	85	129	14	12	6.0
31	24	---	56	169	---	63	---	76	---	14	11	---
TOTAL	1027	2797	5717	9864	6939	9107	2726	11558	1683	1045	828	240.3
MEAN	33.1	93.2	184	318	248	294	90.9	373	56.1	33.7	26.7	8.01
MAX	98	1440	774	1020	1110	2600	534	2220	129	143	85	12
MIN	16	18	56	41	70	63	43	64	28	14	11	5.6
CFSM	.30	.85	1.68	2.89	2.25	2.67	.83	3.39	.51	.31	.24	.07
IN.	.35	.95	1.93	3.34	2.35	3.08	.92	3.91	.57	.35	.28	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1995, BY WATER YEAR (WY)

MEAN	44.2	132	309	301	377	380	254	215	145	64.1	33.3	61.7
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1968 - 1995	
ANNUAL TOTAL	92753.6		53531.3			
ANNUAL MEAN	254		147		192	
HIGHEST ANNUAL MEAN					351	1989
LOWEST ANNUAL MEAN					87.8	1986
HIGHEST DAILY MEAN	3060	Mar 9	2600	Mar 8	12800	Mar 12 1975
LOWEST DAILY MEAN	8.6	Sep 22	5.6	Sep 25	.00	Sep 19 1985
ANNUAL SEVEN-DAY MINIMUM	11	Sep 16	6.2	Sep 23	.00	Aug 13 1988
INSTANTANEOUS PEAK FLOW			3660	Mar 8	27300	Mar 12 1975
INSTANTANEOUS PEAK STAGE			9.94	Mar 8	23.20	Mar 12 1975
ANNUAL RUNOFF (CFSM)	2.31		1.33		1.75	
ANNUAL RUNOFF (INCHES)	31.37		18.10		23.76	
10 PERCENT EXCEEDS	686		365		432	
50 PERCENT EXCEEDS	101		56		69	
90 PERCENT EXCEEDS	22		13		8.6	

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 mi^2, of which about 1,380 mi^2 does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1939 to September 1950 (published as "at Green River"), October 1959 to September 1960 (low-water records only), October 1960 to September 1981 and July 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 363.19 ft above 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.--No estimated daily discharges. Records fair. Flow regulated by Green River Lake beginning February 1969, Nolin River Lake beginning March 1963, and Barren River Lake beginning March 1964. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	1510	4620	9550	2230	8900	11700	2760	7340	20200	5860	1310	479
2	1500	4530	7610	2090	9440	9570	2520	11300	19800	5120	1210	463
3	1570	4460	6390	2070	9340	7630	2290	12200	20900	4420	1130	428
4	1610	4440	5820	3160	8970	6110	2270	11300	21200	3930	1100	393
5	1620	4450	6600	5210	8330	5340	2120	9690	19400	3780	1270	377
6	1540	4590	8130	6350	7820	6010	2000	8710	18400	3710	1510	340
7	1450	4630	9060	13300	7350	8450	1880	7830	18300	3820	1570	325
8	1410	4600	8450	18600	6970	17500	1790	7030	18600	3830	1740	340
9	1570	4780	7980	19000	6590	28700	1770	7480	19500	3500	1830	367
10	1530	5210	10500	15100	6330	33200	1800	16900	19100	3510	4020	353
11	1490	5300	18000	13300	6110	34600	1750	24100	18500	3660	5610	336
12	1470	5250	20200	13700	5650	32700	1970	24200	18500	3330	5590	279
13	1580	5210	18700	13800	4810	26300	2240	19000	18300	2860	4560	277
14	1740	5180	15700	14000	4040	20600	2400	20500	17700	2340	3310	290
15	1940	5160	13900	17400	10100	17100	2400	27200	16000	1840	2500	367
16	2360	5170	12300	21300	27100	15600	2280	30500	13700	1580	2100	658
17	2910	5130	11100	22000	34700	14000	2110	32400	11400	1450	1790	1050
18	3150	5230	10200	20100	36400	12500	2080	35400	9990	1390	1490	1330
19	3710	5100	9880	17300	34600	11100	2620	40800	9230	1370	1260	1300
20	4130	4490	9440	16700	29600	9880	3870	43700	8990	1330	1150	1250
21	4490	4070	8290	15300	24800	9000	8300	46100	8700	1280	1030	1190
22	4950	3930	6890	14100	20900	8010	14700	47600	8010	1200	961	1220
23	5170	3850	5710	13400	18700	6770	18000	47600	7630	1170	885	1160
24	5090	3660	5070	11500	17400	5480	15900	46000	7590	1190	792	1100
25	5000	3370	4570	9560	15900	4580	14200	43400	7150	1310	758	1060
26	4870	3180	4160	8360	15200	3980	13600	38900	6940	1340	687	1050
27	4820	3180	3890	7580	14700	3610	11400	34000	6550	1340	667	1010
28	4810	5040	3630	7650	13800	3430	9370	29900	6400	1500	619	1050
29	4680	7950	3180	8460	---	3420	8040	26900	6290	1470	545	1130
30	4590	10900	2640	8750	---	3280	7200	24600	6100	1360	503	1200
31	4560	---	2320	8890	---	3040	---	22000	---	1360	471	---
TOTAL	92820	146660	269860	370260	414550	383190	165630	804580	409070	77150	53968	22172
MEAN	2994	4889	8705	11940	14810	12360	5521	25950	13640	2489	1741	739
MAX	5170	10900	20200	22000	36400	34600	18000	47600	21200	5860	5610	1330
MIN	1410	3180	2320	2070	4040	3040	1750	7030	6100	1170	471	277

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1995, BY WATER YEAR (WY)

MEAN	5237	8293	14490	17210	16800	17270	14330	10790	7035	3910	2960	4195
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1970 - 1995	
ANNUAL TOTA	3891898		3209910			
ANNUAL MEAN	10660		8794		10260	
HIGHEST ANNUAL MEAN					18460	1979
LOWEST ANNUAL MEAN					6044	1993
HIGHEST DAILY MEAN	45900	Mar 14	47600	May 22	74300	Dec 13 1978
LOWEST DAILY MEAN	953	Sep 16	277	Sep 13	277	Sep 13 1995
ANNUAL SEVEN-DAY MINIMUM	1050	Sep 13	320	Sep 8	320	Sep 8 1995
INSTANTANEOUS PEAK FLOW			48800	May 23	107000	Mar 5 1962
INSTANTANEOUS PEAK STAGE			30.15	May 24	40.46	Mar 5 1962
INSTANTANEOUS LOW FLOW					250	Oct 23 1940
10 PERCENT EXCEEDS	30300		20500		24000	
50 PERCENT EXCEEDS	5330		5170		6110	
90 PERCENT EXCEEDS	1530		1140		1430	

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 mi^2, of which about 1,540 mi^2 does not contribute directly to surface runoff.

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

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

GAGE.--Water-stage recorder. Datum of gage is 353.95 ft above 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: Dec. 3-4, Feb. 9, 10, 13 and May 2. Records good except for periods of estimated record, and discharge below 1000 ft^3/s, which are fair. Flow regulated by Green River Lake beginning February 1969, Nolin Lake beginning March 1963, Barren River Lake beginning March 1964, and Rough River Lake, October 1959. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	1680	5650	12300	2350	11000	14800	3210	9030	27700	7820	1430	607
2	1680	5710	9600	2260	11400	12200	2930	14400	26000	6980	1310	614
3	1710	5640	7850	2160	11100	9940	2690	15600	25200	6110	1200	587
4	1730	5600	6970	3130	10600	8020	2460	14700	22500	5460	1170	561
5	1760	5680	7720	5750	9800	6910	2430	12400	19900	5320	1370	539
6	1720	5730	10000	7260	9220	7460	2250	10800	17800	5140	1710	511
7	1630	5800	11300	14300	8540	10800	2170	9600	17500	5260	1860	482
8	1570	5810	10800	20000	8000	18900	2110	8570	18000	5310	2060	468
9	1620	5970	10300	21400	7780	30400	2080	8400	20300	4910	2130	471
10	1610	6390	13200	18200	7350	36100	2140	17500	19900	4940	4850	473
11	1610	6620	19900	16900	6980	38100	2140	24700	18700	4950	7010	477
12	1570	6640	23200	16400	6510	38500	2250	26700	18600	4280	7160	470
13	1700	6610	22600	16700	5580	35700	2510	23300	18200	3520	5810	440
14	1920	6530	19400	16700	4680	29700	2870	28900	17800	2780	4220	434
15	2220	6410	17000	19100	12300	23400	2950	33100	16700	2170	3230	513
16	2790	6380	15700	22900	30800	18300	2770	35700	15100	1810	2750	810
17	3570	6430	14500	23900	39100	16300	2580	38500	13800	1590	2300	1290
18	3810	6570	13400	22900	41400	14800	2550	41100	12800	1470	1930	1630
19	4680	6530	13100	20700	41500	13200	2990	44000	11800	1490	1620	1600
20	5350	5920	12100	19500	39300	11700	4520	48000	11400	1440	1460	1360
21	5890	5210	10100	18500	35200	10700	9750	50800	11200	1370	1320	1250
22	6470	4900	8760	17300	31100	9670	16600	52200	10500	1330	1210	1220
23	6730	4860	7410	16300	27800	8160	20600	52800	9960	1270	1070	1230
24	6590	4690	6580	14500	23100	6600	20100	53000	9970	1280	980	1180
25	6330	4220	5940	11800	19900	5480	17400	52400	9630	1390	918	1140
26	6070	3830	5410	10000	18300	4740	16400	50500	9600	1450	839	1120
27	6010	3840	5010	9070	17700	4220	14300	47500	8790	1480	805	1110
28	6030	5900	4650	9280	16800	3990	11700	43700	8560	1690	767	1140
29	5890	9530	3870	10500	---	4040	9840	39200	8380	1650	706	1290
30	5750	12900	3030	10900	---	3840	8640	35400	8100	1510	644	1380
31	5720	---	2640	11100	---	3500	---	31300	---	1520	636	---
TOTAL	113410	182500	334340	431760	512840	460170	197930	973800	464390	98690	66475	26397
MEAN	3658	6083	10790	13930	18320	14840	6598	31410	15480	3184	2144	880
MAX	6730	12900	23200	23900	41500	38500	20600	53000	27700	7820	7160	1630
MIN	1570	3830	2640	2160	4680	3500	2080	8400	8100	1270	636	434

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1995, BY WATER YEAR (WY)

MEAN	5546	10620	17460	19620	23240	19550	15820	13680	8119	4620	2984	4554
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1970 - 1995	
ANNUAL TOTAL	4768531		3862702			
ANNUAL MEAN	13060		10580		12090	
HIGHEST ANNUAL MEAN					22070	1979
LOWEST ANNUAL MEAN					7249	1986
HIGHEST DAILY MEAN	45100	Mar 15	53000	May 24	79300	Feb 21 1989
LOWEST DAILY MEAN	920	Sep 16	434	Sep 14	291	Jul 9 1988
ANNUAL SEVEN-DAY MINIMUM	1020	Sep 13	462	Sep 8	329	Jul 4 1988
INSTANTANEOUS PEAK FLOW			53400	May 23	208000	Jan 27 1937
INSTANTANEOUS PEAK STAGE			29.66	May 25	42.40	Jan 30 1937
INSTANTANEOUS LOW FLOW					280	Oct 5 1930
10 PERCENT EXCEEDS	38300		24900		31000	
50 PERCENT EXCEEDS	6580		6530		7370	
90 PERCENT EXCEEDS	1660		1260		1470	

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 mi^2.

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

REVISED RECORDS.--WSP 1083: 1942-46. WSP 1555: 1945-46(P), drainage area.

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. 1-6, Oct. 14 to Nov. 19, Nov. 30 to Dec. 12, Dec. 20-23, Jan. 14-20, Feb. 9-13, 19-24, May 21-26 and Sept. 3-16. Records poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	1.3	2.1	340	29	103	72	45	396	154	17	7.0	1.2
2	1.3	2.0	240	29	91	62	45	1440	324	15	7.5	1.0
3	1.2	2.2	180	28	82	55	51	1140	563	12	6.9	.70
4	1.2	2.8	140	27	75	52	52	842	302	11	6.6	.50
5	1.1	4.0	90	24	66	82	47	443	159	11	11	.40
6	1.1	8.0	70	296	56	367	43	252	106	11	26	.30
7	1.6	7.0	80	1380	51	812	35	169	229	11	34	.20
8	1.6	6.0	70	1070	47	1960	30	127	284	11	28	.10
9	3.8	9.0	120	728	44	1680	29	180	259	11	38	.00
10	3.5	18	300	420	43	1310	28	213	190	10	65	.00
11	3.4	17	900	260	42	823	27	135	122	9.1	94	.00
12	3.4	16	1700	204	40	521	34	101	168	8.6	93	.00
13	4.7	15	1620	172	38	335	44	89	167	8.6	60	.40
14	5.2	16	1080	400	37	227	46	116	111	8.2	35	.00
15	4.8	18	620	900	2480	174	41	306	80	7.5	23	.00
16	4.2	22	375	800	4940	140	36	287	58	7.1	24	3.5
17	3.8	22	329	400	3870	115	33	702	43	7.0	22	7.5
18	6.0	20	323	250	2370	96	31	3040	33	6.6	12	7.6
19	5.6	20	212	450	1600	85	30	5310	27	5.9	9.0	7.1
20	5.2	22	130	1200	900	79	99	3450	26	5.7	8.1	5.8
21	4.6	23	92	1050	580	82	696	1600	36	4.9	6.9	4.5
22	4.0	23	76	691	360	86	679	640	39	4.4	6.4	3.3
23	3.6	23	66	399	240	83	383	420	29	5.0	5.5	2.3
24	3.4	23	59	240	180	76	391	300	46	6.9	4.3	1.7
25	3.2	24	51	164	143	66	339	240	35	9.7	3.6	1.4
26	3.0	24	46	123	112	59	234	180	37	22	3.0	1.3
27	2.8	84	41	103	97	56	168	149	29	23	3.0	1.3
28	2.6	1330	38	109	83	56	127	136	24	13	2.5	1.2
29	2.4	870	35	158	---	53	101	918	20	8.3	1.7	1.0
30	2.3	480	31	162	---	50	85	650	19	7.7	1.8	.86
31	2.2	---	30	124	---	47	---	289	---	7.0	1.6	---
TOTAL	98.1	3153.1	9484	12390	18770	9761	4029	24260	3719	306.2	650.4	55.16
MEAN	3.16	105	306	400	670	315	134	783	124	9.88	21.0	1.84
MAX	6.0	1330	1700	1380	4940	1960	696	5310	563	23	94	7.6
MIN	1.1	2.0	30	24	37	47	27	89	19	4.4	1.6	.00
CFSM	.02	.54	1.58	2.06	3.46	1.62	.69	4.03	.64	.05	.11	.01
IN.	.02	.60	1.82	2.38	3.60	1.87	.77	4.65	.71	.06	.12	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

MEAN	20.6	178	405	462	637	587	434	318	107	62.4	32.0	59.2
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1941 - 1995	
ANNUAL TOTAL	114015.18		86675.96			
ANNUAL MEAN	312		237		273	
HIGHEST ANNUAL MEAN					643	1979
LOWEST ANNUAL MEAN					59.8	1941
HIGHEST DAILY MEAN	4190	Mar 28	5310	May 19	28400	Feb 15 1989
LOWEST DAILY MEAN	.37	Aug 23	.00	Sep 9	.00	Oct 21 1940
ANNUAL SEVEN-DAY MINIMUM	.47	Sep 11	.06	Sep 9	.00	Oct 21 1940
INSTANTANEOUS PEAK FLOW			5750	May 19	35700	May 7 1984
INSTANTANEOUS PEAK STAGE			18.12	May 19	26.81	Nov 19 1957
ANNUAL RUNOFF (CFSM)	1.61		1.22		1.41	
ANNUAL RUNOFF (INCHES)	21.86		16.62		19.14	
10 PERCENT EXCEEDS	1090		662		718	
50 PERCENT EXCEEDS	27		43		46	
90 PERCENT EXCEEDS	1.3		2.2		.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 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 361.80 ft above sea level.

REMARKS.--Estimated daily discharges: Dec. 1-4, 9-26, Jan. 7-14, 17-19, 2-25, Jan. 29 to Feb. 1, Feb. 5-6, Feb. 15 to Mar. 3, Mar. 13-20, Apr. 26-30, May 6-12, May 21 to June 18 and Aug. 29 to Sept. 14.. Records poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	10	15	520	90	400	280	98	274	300	59	46	3.4
2	10	14	400	88	348	260	94	647	500	54	38	2.4
3	9.9	12	300	85	295	240	90	934	800	48	32	2.0
4	9.5	12	250	82	233	227	92	1110	900	45	28	1.6
5	9.5	15	191	75	220	214	92	1290	700	47	42	1.4
6	9.5	26	154	89	200	299	90	1200	400	48	71	.90
7	9.8	19	171	200	159	591	90	1100	340	46	101	.70
8	9.5	16	152	600	126	991	87	900	600	42	115	.50
9	18	24	200	1100	113	1200	81	700	800	38	99	.32
10	15	40	600	840	116	1550	79	600	700	35	99	.28
11	11	34	1000	600	118	1910	77	440	400	33	114	.24
12	11	28	1500	400	101	2090	74	320	380	31	141	.22
13	20	25	1700	300	95	1800	73	258	400	29	152	.20
14	21	23	1600	700	102	1500	78	645	300	27	126	.18
15	19	24	1200	959	400	1100	82	996	200	25	94	6.6
16	16	32	600	961	1100	800	81	1120	140	23	71	17
17	15	32	300	700	2000	500	78	1310	120	20	60	36
18	20	28	400	500	3000	420	77	1950	100	18	57	44
19	24	25	800	800	3200	380	76	2800	88	16	51	39
20	22	24	1200	1130	3000	330	82	3300	78	14	41	36
21	19	29	1000	1200	2200	295	182	3400	74	14	33	34
22	17	30	800	1000	1800	269	529	3100	71	14	27	31
23	17	30	500	600	1000	252	770	2400	74	14	23	26
24	16	29	300	450	700	219	951	1400	72	17	18	20
25	15	29	220	380	500	186	991	700	77	30	15	18
26	15	28	170	283	400	154	900	400	88	44	12	17
27	15	40	141	256	350	135	540	260	79	55	8.6	17
28	14	113	120	312	300	126	340	200	72	68	6.1	13
29	14	480	108	400	---	116	220	2000	67	74	5.0	12
30	14	678	99	500	---	110	180	1600	64	69	4.4	11
31	13	---	93	450	---	104	---	800	---	57	4.0	---
TOTAL	458.7	1954	16789	16130	22576	18648	7274	38154	8984	1154	1734.1	391.94
MEAN	14.8	65.1	542	520	806	602	242	1231	299	37.2	55.9	13.1
MAX	24	678	1700	1200	3200	2090	991	3400	900	74	152	44
MIN	9.5	12	93	75	95	104	73	200	64	14	4.0	.18
CFSM	.03	.14	1.15	1.11	1.72	1.28	.52	2.62	.64	.08	.12	.03
IN.	.04	.15	1.33	1.28	1.79	1.48	.58	3.03	.71	.09	.14	.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

MEAN	19.4	121	325	498	719	933	901	505	164	46.9	26.9	15.1
MAX	33.5	307	542	635	1204	1508	1792	1231	299	58.9	55.9	29.6
(WY)	1994	1994	1995	1994	1994	1994	1994	1995	1995	1994	1995	1992
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1992 - 1995	
ANNUAL TOTAL	182359.41		134247.74			
ANNUAL MEAN	500		368		354	
HIGHEST ANNUAL MEAN					503	1994
LOWEST ANNUAL MEAN					242	1992
HIGHEST DAILY MEAN	3520	Jan 30	3400	May 21	3520	Jan 30 1994
LOWEST DAILY MEAN	.45	Sep 14	.18	Sep 14	.03	Aug 28 1993
ANNUAL SEVEN-DAY MINIMUM	1.1	Sep 9	.28	Sep 8	.28	Sep 8 1995
INSTANTANEOUS PEAK FLOW			3410	May 21	3650	Jan 31 1994
INSTANTANEOUS PEAK STAGE			20.94	May 22	20.94	May 22 1995
ANNUAL RUNOFF (CFSM)	1.07		.78		.75	
ANNUAL RUNOFF (INCHES)	14.46		10.65		10.25	
10 PERCENT EXCEEDS	1800		1100		1100	
50 PERCENT EXCEEDS	71		99		88	
90 PERCENT EXCEEDS	9.5		13		9.8	

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 mi^2, approximately.

PERIOD OF RECORD.--December 1936 to current year (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.--Estimated daily discharges: Dec. 1, 2, Jan. 8-12, 18-20, Feb. 8, 9, and Apr. 20, May 2, and June 18. Records good except for periods of estimated record, which are fair. Discharge values published are days with mean values 100,000 ft^3/s and above. Flow regulated by Ohio River system of Locks and Dams.

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	---	---	106000	---	174000	142000	---	104000	197000	115000	---	---
2	---	---	100000	---	150000	146000	---	111000	174000	115000	---	---
3	---	---	---	---	134000	169000	---	123000	164000	107000	---	---
4	---	---	---	---	130000	188000	---	157000	168000	107000	---	---
5	---	---	---	---	133000	198000	---	188000	163000	101000	---	---
6	---	---	---	---	134000	200000	---	197000	156000	---	---	---
7	---	---	103000	---	142000	181000	---	181000	160000	---	133000	---
8	---	---	126000	106000	141000	192000	---	156000	148000	---	160000	---
9	---	---	132000	144000	112000	249000	---	143000	125000	---	166000	---
10	---	---	153000	168000	---	310000	---	150000	104000	---	157000	---
11	---	---	169000	173000	---	343000	---	163000	112000	---	142000	---
12	---	---	186000	151000	---	357000	---	165000	123000	---	133000	---
13	---	---	217000	132000	---	353000	104000	177000	126000	---	113000	---
14	---	---	231000	133000	---	334000	116000	225000	157000	---	104000	---
15	---	---	220000	140000	---	320000	121000	258000	189000	---	---	---
16	---	---	183000	167000	153000	303000	121000	297000	199000	---	---	---
17	---	---	154000	219000	217000	277000	121000	366000	172000	---	---	---
18	---	---	138000	278000	255000	239000	109000	455000	100000	---	---	---
19	---	---	120000	352000	295000	192000	101000	521000	---	---	---	---
20	---	---	112000	398000	327000	147000	100000	566000	---	---	---	---
21	---	---	101000	406000	329000	124000	113000	594000	---	---	---	---
22	---	---	102000	384000	294000	111000	149000	609000	---	---	---	---
23	---	---	---	353000	246000	106000	169000	618000	---	---	---	---
24	---	---	---	333000	209000	104000	174000	614000	---	---	---	---
25	---	---	---	316000	178000	103000	166000	582000	---	---	---	---
26	---	---	---	285000	164000	105000	179000	528000	---	---	---	---
27	---	---	---	240000	154000	104000	183000	476000	---	---	---	---
28	---	---	---	195000	151000	---	168000	380000	---	---	---	---
29	---	---	---	186000	---	---	140000	295000	---	---	---	---
30	---	---	---	189000	---	---	121000	258000	102000	---	---	---
31	---	---	---	190000	---	---	---	230000	---	---	---	---
TOTAL	---	---	---	---	---	---	---	9887000	---	---	---	---
MEAN	---	---	---	---	---	---	---	318900	---	---	---	---
MAX	---	---	---	---	---	---	---	618000	---	---	---	---
MIN	---	---	---	---	---	---	---	104000	---	---	---	---

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 1995 WATER YEAR		WATER YEARS 1941 - 1974	
ANNUAL MEAN			133300	
HIGHEST ANNUAL MEAN			193800	1950
LOWEST ANNUAL MEAN			63210	1954
HIGHEST DAILY MEAN	618000	May 23	909000	Mar 15 1964
LOWEST DAILY MEAN			6700	Nov 6 1953
ANNUAL SEVEN-DAY MINIMUM			6760	Nov 4 1953
INSTANTANEOUS PEAK FLOW	621000	May 23	1410000	Jan 29 1937
INSTANTANEOUS PEAK STAGE	42.96	May 24	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 mi^2, of which about 9 mi^2 does not contribute directly to surface runoff.

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

GAGE.--Water-stage recorder. Datum of gage is 362.80 ft above sea level. Prior to July 31, 1942, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 21-30, Nov. 13-26, Feb. 9-11, 21-23 and May 20-25. Records fair except for periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1937 reached a stage of 19.27 ft, from floodmarks, discharge, 17,000 ft^3/s, by slope-area measurement from U.S. Army Corp of Engineers.

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	1.4	1.3	88	48	166	152	63	340	165	25	51	3.7
2	1.1	1.1	60	44	150	141	58	1480	148	33	31	3.7
3	.99	1.5	41	42	137	130	53	1610	165	23	19	3.3
4	.94	1.7	30	40	127	124	50	1300	152	15	14	3.5
5	.94	2.4	30	34	121	138	44	635	133	12	88	3.4
6	.89	3.1	38	52	111	351	41	300	107	11	652	3.2
7	.84	3.0	46	600	98	670	38	200	127	14	372	3.8
8	.90	3.1	56	1000	88	1460	36	160	115	18	157	5.1
9	1.9	4.0	87	687	78	1610	36	141	150	14	115	4.8
10	2.0	4.5	725	317	76	1590	34	130	204	11	120	4.3
11	2.0	4.0	1430	210	74	1330	41	113	165	8.5	103	3.8
12	1.8	4.0	1430	182	72	642	65	93	139	7.3	112	4.4
13	2.3	3.8	1420	169	67	321	49	82	131	6.5	82	4.9
14	1.9	3.6	1140	452	69	232	37	459	105	14	57	4.9
15	1.5	3.2	381	1070	1090	195	31	379	80	36	39	5.2
16	1.4	3.0	168	916	2170	172	29	255	65	20	27	9.7
17	1.3	2.8	234	524	2620	153	25	565	50	11	19	9.4
18	1.3	2.6	334	309	2680	138	21	1880	39	6.6	15	11
19	2.5	2.4	262	580	2760	132	19	3560	31	4.7	11	10
20	2.1	2.2	175	1370	2590	123	22	3500	27	3.8	8.5	6.3
21	2.0	2.0	141	1370	1900	122	140	3000	23	3.7	7.9	3.2
22	1.9	1.9	122	983	1000	120	331	2400	24	3.7	7.0	2.7
23	1.8	1.8	110	457	440	115	279	1800	22	4.6	5.9	2.6
24	1.8	1.7	99	261	247	107	464	1300	25	17	5.2	3.0
25	1.7	1.6	90	193	193	96	550	580	24	42	5.1	3.0
26	1.7	1.8	81	163	171	85	339	206	19	88	4.8	3.0
27	1.6	60	71	146	157	80	204	156	15	86	4.4	3.5
28	1.5	126	64	145	155	86	151	141	12	106	4.1	3.9
29	1.4	184	59	199	---	85	122	240	11	294	3.9	5.1
30	1.3	163	53	242	---	78	107	477	13	154	3.7	4.7
31	1.2	---	50	200	---	69	---	283	---	89	3.7	---
TOTAL	47.90	601.1	9115	13005	19607	10847	3479	27765	2486	1182.4	2148.2	143.1
MEAN	1.55	20.0	294	420	700	350	116	896	82.9	38.1	69.3	4.77
MAX	2.5	184	1430	1370	2760	1610	550	3560	204	294	652	11
MIN	.84	1.1	30	34	67	69	19	82	11	3.7	3.7	2.6
CFSM	.01	.08	1.15	1.65	2.75	1.37	.45	3.51	.32	.15	.27	.02
IN.	.01	.09	1.33	1.90	2.86	1.58	.51	4.05	.36	.17	.31	.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

MEAN	24.9	212	446	569	756	764	596	395	134	87.8	37.8	51.5
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1941 - 1995	
ANNUAL TOTAL	109713.26		90426.70			
ANNUAL MEAN	301		248		333	
HIGHEST ANNUAL MEAN					701	1989
LOWEST ANNUAL MEAN					61.6	1941
HIGHEST DAILY MEAN	3110	Jan 29	3560	May 19	14000	Feb 16 1989
LOWEST DAILY MEAN	.27	Sep 4	.84	Oct 7	.00	Oct 1 1940
ANNUAL SEVEN-DAY MINIMUM	.38	Sep 11	.94	Oct 2	.00	Oct 1 1940
INSTANTANEOUS PEAK FLOW			3810	May 19	14600	Feb 16 1989
INSTANTANEOUS PEAK STAGE			15.37	May 19	18.85	Feb 16 1989
ANNUAL RUNOFF (CFSM)	1.18		.97		1.31	
ANNUAL RUNOFF (INCHES)	16.01		13.19		17.74	
10 PERCENT EXCEEDS	1130		646		1140	
50 PERCENT EXCEEDS	46		60		60	
90 PERCENT EXCEEDS	1.2		2.0		1.0	

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. 8 to Mar. 28.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	155	147	150	179	172	175	---	---	---	---	---	---
2	155	147	150	175	172	173	---	---	---	---	---	---
3	155	151	154	179	172	176	---	---	---	---	---	---
4	159	151	154	178	171	174	---	---	---	---	---	---
5	158	154	155	178	174	175	---	---	---	---	---	---
6	162	158	160	178	171	176	---	---	---	---	---	---
7	166	158	161	178	174	175	---	---	---	---	---	---
8	170	162	167	---	---	---	---	---	---	---	---	---
9	173	169	170	---	---	---	---	---	---	---	---	---
10	173	169	172	---	---	---	---	---	---	---	---	---
11	176	169	173	---	---	---	---	---	---	---	---	---
12	176	173	175	---	---	---	---	---	---	---	---	---
13	176	176	176	---	---	---	---	---	---	---	---	---
14	180	176	177	---	---	---	---	---	---	---	---	---
15	180	173	176	---	---	---	---	---	---	---	---	---
16	176	173	174	---	---	---	---	---	---	---	---	---
17	176	173	174	---	---	---	---	---	---	---	---	---
18	176	173	175	---	---	---	---	---	---	---	---	---
19	176	173	174	---	---	---	---	---	---	---	---	---
20	176	173	175	---	---	---	---	---	---	---	---	---
21	173	169	171	---	---	---	---	---	---	---	---	---
22	169	169	169	---	---	---	---	---	---	---	---	---
23	173	165	168	---	---	---	---	---	---	---	---	---
24	165	161	163	---	---	---	---	---	---	---	---	---
25	169	161	164	---	---	---	---	---	---	---	---	---
26	176	165	172	---	---	---	---	---	---	---	---	---
27	176	173	175	---	---	---	---	---	---	---	---	---
28	179	172	175	---	---	---	---	---	---	---	---	---
29	179	175	178	---	---	---	---	---	---	---	---	---
30	179	175	176	---	---	---	---	---	---	---	---	---
31	175	172	174	---	---	---	---	---	---	---	---	---
MONTH	180	147	169	179	171	175	---	---	---	---	---	---

CUMBERLAND RIVER BASIN

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

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	111	107	109	119	111	116
2	---	---	---	---	---	---	115	107	111	---	---	---
3	---	---	---	---	---	---	115	111	113	127	115	118
4	---	---	---	---	---	---	115	111	114	111	103	110
5	---	---	---	---	---	---	116	112	114	127	102	110
6	---	---	---	---	---	---	116	112	113	118	98	109
7	---	---	---	---	---	---	116	112	114	118	110	113
8	---	---	---	---	---	---	116	112	113	118	106	113
9	---	---	---	---	---	---	121	116	118	118	106	111
10	---	---	---	---	---	---	121	117	118	126	110	114
11	---	---	---	---	---	---	121	117	118	129	122	123
12	---	---	---	---	---	---	121	117	119	118	102	112
13	---	---	---	---	---	---	122	117	119	---	---	---
14	---	---	---	---	---	---	122	118	121	---	---	---
15	---	---	---	---	---	---	122	118	119	---	---	---
16	---	---	---	---	---	---	122	118	119	---	---	---
17	---	---	---	---	---	---	122	118	121	113	93	104
18	---	---	---	---	---	---	123	119	120	113	97	104
19	---	---	---	---	---	---	123	119	122	105	97	100
20	---	---	---	---	---	---	123	119	122	106	98	101
21	---	---	---	---	---	---	123	119	122	106	102	105
22	---	---	---	---	---	---	124	119	122	110	98	103
23	---	---	---	---	---	---	128	124	125	106	98	102
24	---	---	---	---	---	---	128	124	126	110	102	106
25	---	---	---	---	---	---	128	124	125	114	98	107
26	---	---	---	---	---	---	128	124	125	114	102	107
27	---	---	---	---	---	---	124	112	120	107	98	104
28	---	---	---	---	---	---	123	111	117	107	99	103
29	---	---	---	110	106	108	123	111	117	107	99	104
30	---	---	---	110	106	109	119	107	113	111	103	106
31	---	---	---	111	106	108	---	---	---	111	103	107
MONTH	---	---	---	111	106	108	128	107	118	129	93	108
		JUNE			JULY			AUGUST			SEPTEMBER	
1	111	107	108	138	130	133	157	153	154	161	157	159
2	115	107	112	138	130	133	157	149	152	161	157	158
3	119	111	113	138	130	134	157	153	156	166	157	162
4	119	111	115	138	130	135	161	153	157	162	162	162
5	119	115	116	138	134	137	157	153	155	166	162	164
6	115	111	114	138	134	137	161	153	157	162	158	161
7	119	111	114	142	134	137	158	153	156	166	162	163
8	120	112	116	142	138	139	158	158	158	166	162	165
9	120	116	117	142	138	140	162	154	157	166	162	164
10	120	116	117	142	138	141	162	154	157	166	162	165
11	120	116	118	142	138	140	162	154	158	170	166	167
12	120	116	119	146	138	142	162	154	158	170	166	168
13	120	116	119	146	142	143	162	154	159	170	166	168
14	124	116	119	146	142	143	162	158	159	170	166	168
15	120	116	119	147	143	146	158	154	157	170	166	169
16	124	120	121	147	143	145	158	154	157	174	166	171
17	124	120	121	151	143	146	162	158	160	174	170	171
18	128	120	124	151	143	146	161	157	158	174	170	171
19	128	124	125	151	143	147	161	153	157	174	170	172
20	128	124	127	151	147	148	161	157	160	174	170	172
21	128	124	125	151	147	149	161	157	160	174	170	172
22	128	124	125	151	147	150	161	157	158	174	174	174
23	128	124	127	151	147	149	161	157	158	178	174	175
24	131	124	128	151	147	149	161	157	158	178	174	175
25	131	128	128	156	148	149	165	157	159	178	174	176
26	131	128	128	156	148	150	165	157	160	182	174	179
27	130	127	128	156	148	150	161	157	159	178	178	178
28	134	127	130	156	148	153	161	157	158	178	178	178
29	134	127	129	156	148	152	165	157	160	182	174	177
30	134	130	131	156	152	153	161	157	160	182	174	179
31	---	---	---	156	149	152	161	157	160	---	---	---
MONTH	134	107	121	156	130	144	165	149	158	182	157	169
YEAR	182	93	143									

CUMBERLAND RIVER BASIN

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

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	175	167	172	179	175	176	---	---	---	---	---	---
2	178	175	176	175	172	174	---	---	---	---	---	---
3	182	175	177	179	172	174	---	---	---	---	---	---
4	178	174	176	178	174	175	---	---	---	---	---	---
5	177	174	175	178	171	176	---	---	---	---	---	---
6	177	174	176	178	174	175	---	---	---	---	---	---
7	181	174	177	178	174	177	---	---	---	---	---	---
8	181	174	178	---	---	---	---	---	---	---	---	---
9	181	176	179	---	---	---	---	---	---	---	---	---
10	176	173	174	---	---	---	---	---	---	---	---	---
11	176	173	174	---	---	---	---	---	---	---	---	---
12	180	173	176	---	---	---	---	---	---	---	---	---
13	176	173	175	---	---	---	---	---	---	---	---	---
14	180	176	177	---	---	---	---	---	---	---	---	---
15	180	173	176	---	---	---	---	---	---	---	---	---
16	180	173	176	---	---	---	---	---	---	---	---	---
17	180	176	177	---	---	---	---	---	---	---	---	---
18	180	176	179	---	---	---	---	---	---	---	---	---
19	176	176	176	---	---	---	---	---	---	---	---	---
20	180	176	178	---	---	---	---	---	---	---	---	---
21	176	173	176	---	---	---	---	---	---	---	---	---
22	180	176	178	---	---	---	---	---	---	---	---	---
23	180	173	176	---	---	---	---	---	---	---	---	---
24	180	173	178	---	---	---	---	---	---	---	---	---
25	176	173	176	---	---	---	---	---	---	---	---	---
26	176	173	174	---	---	---	---	---	---	---	---	---
27	180	173	176	---	---	---	---	---	---	---	---	---
28	179	172	175	---	---	---	---	---	---	---	---	---
29	179	175	176	---	---	---	---	---	---	---	---	---
30	179	175	178	---	---	---	---	---	---	---	---	---
31	179	175	177	---	---	---	---	---	---	---	---	---
MONTH	182	167	176	179	171	175	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	115	111	112	130	123	128
2	---	---	---	---	---	---	115	107	110	---	---	---
3	---	---	---	---	---	---	115	107	110	138	115	127
4	---	---	---	---	---	---	115	111	112	127	111	122
5	---	---	---	---	---	---	116	112	113	138	114	128
6	---	---	---	---	---	---	116	112	115	133	110	122
7	---	---	---	---	---	---	116	112	114	133	126	129
8	---	---	---	---	---	---	116	108	113	129	122	126
9	---	---	---	---	---	---	121	116	117	133	118	127
10	---	---	---	---	---	---	121	117	120	141	118	129
11	---	---	---	---	---	---	121	117	118	141	122	134
12	---	---	---	---	---	---	121	117	118	141	106	117
13	---	---	---	---	---	---	122	117	121	---	---	---
14	---	---	---	---	---	---	122	118	121	---	---	---
15	---	---	---	---	---	---	122	118	119	---	---	---
16	---	---	---	---	---	---	122	118	120	105	93	102
17	---	---	---	---	---	---	122	118	119	113	93	106
18	---	---	---	---	---	---	123	119	121	117	109	115
19	---	---	---	---	---	---	127	119	122	125	105	112
20	---	---	---	---	---	---	127	119	123	126	101	118
21	---	---	---	---	---	---	127	123	124	122	110	115
22	---	---	---	---	---	---	128	123	125	110	106	109
23	---	---	---	---	---	---	128	124	126	122	106	115
24	---	---	---	---	---	---	128	124	125	118	110	115
25	---	---	---	---	---	---	128	124	127	118	106	114
26	---	---	---	---	---	---	128	124	126	118	110	115
27	---	---	---	---	---	---	124	120	123	119	110	115
28	---	---	---	---	---	---	130	123	126	119	115	118
29	---	---	---	106	102	105	130	123	127	123	111	115
30	---	---	---	114	102	109	130	119	125	119	111	116
31	---	---	---	115	106	109	---	---	---	119	111	115
MONTH	---	---	---	115	102	108	130	107	120	141	93	119

CUMBERLAND RIVER BASIN

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

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	123	111	118	127	123	124	137	133	135	153	145	149
2	127	115	119	127	123	124	141	133	138	153	145	148
3	127	119	122	127	123	124	133	133	133	150	145	148
4	123	119	122	127	123	124	137	133	135	154	146	149
5	127	119	122	127	123	124	137	133	135	154	146	151
6	119	115	118	130	123	126	137	133	136	154	146	152
7	123	115	119	130	123	125	142	134	138	154	150	151
8	120	116	118	127	123	126	142	134	138	154	150	153
9	124	116	121	127	123	126	146	138	141	154	150	152
10	124	116	120	130	123	126	142	138	140	158	150	154
11	120	116	119	127	123	126	146	138	142	158	154	156
12	124	116	120	127	123	126	146	142	143	162	154	157
13	124	120	121	130	123	127	150	142	147	158	150	155
14	124	116	121	131	124	128	150	142	144	158	154	157
15	124	120	121	131	128	129	150	142	146	158	158	158
16	124	120	122	128	128	128	150	142	147	162	158	159
17	124	120	123	131	128	130	150	142	147	162	158	161
18	124	120	123	131	128	129	149	145	148	162	158	160
19	124	120	123	131	128	129	149	145	148	162	158	159
20	124	120	123	131	131	131	149	145	148	162	154	157
21	124	120	123	131	128	130	153	145	148	162	154	157
22	124	120	123	131	128	130	149	145	148	162	154	159
23	128	120	123	131	128	130	149	145	147	166	158	162
24	124	120	122	136	128	131	149	145	147	166	158	161
25	124	120	123	132	129	130	153	145	150	162	158	159
26	124	120	123	136	129	132	153	145	149	158	154	156
27	123	119	121	132	129	131	153	145	149	158	154	157
28	127	123	124	136	129	132	149	145	148	158	150	155
29	127	119	124	136	129	132	149	145	148	158	150	152
30	127	123	124	136	129	132	153	149	150	158	150	154
31	---	---	---	141	133	136	149	145	148	---	---	---
MONTH	128	111	121	141	123	128	153	133	144	166	145	155
YEAR	182	93	139									

PUMP NUMBER 3

		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	178	175	176	175	172	174	---	---	---	---	---	---
2	175	175	175	175	172	174	---	---	---	---	---	---
3	178	175	176	179	172	175	---	---	---	---	---	---
4	178	174	176	178	171	174	---	---	---	---	---	---
5	177	174	176	178	171	175	---	---	---	---	---	---
6	177	174	175	178	174	176	---	---	---	---	---	---
7	177	174	176	178	178	178	---	---	---	---	---	---
8	177	174	175	---	---	---	---	---	---	---	---	---
9	176	173	175	---	---	---	---	---	---	---	---	---
10	176	173	174	---	---	---	---	---	---	---	---	---
11	176	173	175	---	---	---	---	---	---	---	---	---
12	176	173	175	---	---	---	---	---	---	---	---	---
13	180	173	176	---	---	---	---	---	---	---	---	---
14	180	173	176	---	---	---	---	---	---	---	---	---
15	180	176	177	---	---	---	---	---	---	---	---	---
16	180	173	176	---	---	---	---	---	---	---	---	---
17	180	173	176	---	---	---	---	---	---	---	---	---
18	176	173	175	---	---	---	---	---	---	---	---	---
19	180	176	177	---	---	---	---	---	---	---	---	---
20	180	173	176	---	---	---	---	---	---	---	---	---
21	180	173	176	---	---	---	---	---	---	---	---	---
22	176	173	174	---	---	---	---	---	---	---	---	---
23	176	173	176	---	---	---	---	---	---	---	---	---
24	180	176	177	---	---	---	---	---	---	---	---	---
25	180	173	178	---	---	---	---	---	---	---	---	---
26	180	173	176	---	---	---	---	---	---	---	---	---
27	176	173	175	---	---	---	---	---	---	---	---	---
28	179	172	175	---	---	---	---	---	---	---	---	---
29	179	175	176	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	180	172	176	179	171	175	---	---	---	---	---	---

CUMBERLAND RIVER BASIN

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

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	107	103	106	134	130	132
2	---	---	---	---	---	---	111	107	108	---	---	---
3	---	---	---	---	---	---	111	107	109	138	127	134
4	---	---	---	---	---	---	111	107	108	134	130	132
5	---	---	---	---	---	---	112	108	109	138	133	136
6	---	---	---	---	---	---	112	108	110	137	133	136
7	---	---	---	---	---	---	112	108	111	141	129	134
8	---	---	---	---	---	---	112	112	112	137	133	136
9	---	---	---	---	---	---	116	112	113	141	133	136
10	---	---	---	---	---	---	117	113	114	141	133	136
11	---	---	---	---	---	---	117	113	115	141	126	135
12	---	---	---	---	---	---	117	113	115	137	122	126
13	---	---	---	---	---	---	117	113	115	---	---	---
14	---	---	---	---	---	---	118	114	116	---	---	---
15	---	---	---	---	---	---	122	114	117	---	---	---
16	---	---	---	---	---	---	122	118	119	117	101	110
17	---	---	---	---	---	---	122	118	121	121	113	116
18	---	---	---	---	---	---	123	119	121	125	117	120
19	---	---	---	---	---	---	123	119	120	128	121	124
20	---	---	---	---	---	---	123	119	121	126	118	124
21	---	---	---	---	---	---	123	119	120	122	114	117
22	---	---	---	---	---	---	128	119	122	118	114	115
23	---	---	---	---	---	---	124	120	122	122	118	121
24	---	---	---	---	---	---	124	120	123	122	114	118
25	---	---	---	---	---	---	128	120	124	122	118	121
26	---	---	---	---	---	---	131	124	128	126	118	123
27	---	---	---	---	---	---	131	128	129	123	119	122
28	---	---	---	---	---	---	134	127	130	127	119	124
29	---	---	---	102	98	99	134	130	131	130	119	126
30	---	---	---	106	98	102	130	127	129	134	127	130
31	---	---	---	110	106	107	---	---	---	130	130	130
MONTH	---	---	---	110	98	103	134	103	118	141	101	126
		JUNE			JULY			AUGUST			SEPTEMBER	
1	130	127	128	150	146	147	153	145	150	149	145	148
2	134	127	130	150	146	148	153	149	150	149	145	148
3	138	127	132	150	142	147	149	149	149	150	145	146
4	130	119	126	146	138	145	153	149	151	150	146	147
5	130	127	128	146	138	143	153	149	150	150	146	149
6	130	127	128	146	138	145	153	149	150	150	146	149
7	130	127	128	150	142	148	154	149	150	150	146	148
8	135	124	130	150	142	146	154	146	150	150	146	148
9	135	128	131	150	142	143	154	146	150	150	146	149
10	135	131	132	146	146	146	154	146	151	150	150	150
11	135	131	132	146	142	143	154	150	151	154	146	149
12	135	131	134	150	142	147	154	150	152	154	150	152
13	139	131	135	150	146	148	154	150	153	154	146	150
14	135	131	132	151	146	149	154	150	151	150	150	150
15	139	131	135	151	147	148	154	150	153	150	146	147
16	139	135	137	151	147	148	150	146	149	150	146	149
17	135	135	135	151	147	150	154	146	149	154	150	151
18	139	135	138	151	147	150	149	145	148	154	150	151
19	139	135	137	151	147	148	153	145	148	154	150	151
20	143	131	137	151	147	148	153	145	150	154	150	152
21	139	135	137	151	147	149	153	149	150	154	150	151
22	143	135	137	151	147	148	153	145	150	154	146	151
23	143	139	140	155	147	149	153	149	151	154	150	152
24	147	135	140	151	143	147	153	149	150	150	150	150
25	147	139	142	152	144	148	153	145	148	154	150	152
26	143	143	143	148	144	147	153	149	151	154	150	153
27	146	138	141	152	144	147	153	149	151	150	146	149
28	146	142	144	152	148	149	149	145	148	154	150	151
29	150	142	145	152	144	148	149	145	148	154	146	151
30	146	142	144	148	144	146	149	145	148	154	150	152
31	---	---	---	153	144	148	153	149	150	---	---	---
MONTH	150	119	135	155	138	147	154	145	150	154	145	150
YEAR	180	98	144									

CUMBERLAND RIVER BASIN

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

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO JANUARY 1995

PUMP NUMBER 4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	178	175	176	---	---	---	---	---	---	---	---	---
2	178	175	176	---	---	---	---	---	---	---	---	---
3	178	175	178	---	---	---	---	---	---	---	---	---
4	178	174	176	---	---	---	---	---	---	---	---	---
5	174	174	174	---	---	---	---	---	---	---	---	---
6	177	174	176	---	---	---	---	---	---	---	---	---
7	181	174	177	---	---	---	---	---	---	---	---	---
8	181	174	177	---	---	---	---	---	---	---	---	---
9	176	173	174	---	---	---	---	---	---	---	---	---
10	176	173	175	---	---	---	---	---	---	---	---	---
11	180	173	175	---	---	---	---	---	---	---	---	---
12	180	176	177	---	---	---	---	---	---	---	---	---
13	176	173	175	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	181	173	176	---	---	---	---	---	---	---	---	---

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

PUMP NUMBER 4

		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	153	149	150	---	---	---
2	---	---	---	---	---	---	153	149	151	---	---	---
3	---	---	---	---	---	---	153	149	152	---	---	---
4	---	---	---	---	---	---	153	149	152	---	---	---
5	---	---	---	---	---	---	153	149	151	---	---	---
6	---	---	---	---	---	---	153	149	150	---	---	---
7	---	---	---	---	---	---	154	149	150	---	---	---
8	---	---	---	142	138	141	154	150	151	---	---	---
9	---	---	---	146	142	143	154	146	151	---	---	---
10	---	---	---	146	142	143	154	150	151	---	---	---
11	---	---	---	146	142	143	154	150	153	---	---	---
12	---	---	---	146	142	144	154	150	151	---	---	---
13	---	---	---	146	142	145	154	150	151	---	---	---
14	---	---	---	147	142	145	154	150	153	---	---	---
15	---	---	---	147	143	146	154	150	152	---	---	---
16	---	---	---	147	143	146	154	150	151	---	---	---
17	---	---	---	147	143	146	154	150	151	---	---	---
18	---	---	---	147	143	146	153	149	151	---	---	---
19	---	---	---	151	147	147	153	149	150	---	---	---
20	---	---	---	147	143	146	153	149	151	---	---	---
21	---	---	---	147	143	146	153	149	152	---	---	---
22	---	---	---	151	147	148	153	149	152	---	---	---
23	---	---	---	147	147	147	---	---	---	---	---	---
24	---	---	---	152	147	149	---	---	---	---	---	---
25	---	---	---	148	144	147	---	---	---	---	---	---
26	---	---	---	148	148	148	---	---	---	---	---	---
27	---	---	---	152	144	148	---	---	---	---	---	---
28	---	---	---	148	144	147	---	---	---	---	---	---
29	---	---	---	152	148	149	---	---	---	---	---	---
30	---	---	---	152	148	151	---	---	---	---	---	---
31	---	---	---	152	145	148	---	---	---	---	---	---
MONTH	---	---	---	152	138	146	154	146	151	---	---	---
YEAR	181	138	155									

CUMBERLAND RIVER BASIN

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

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 1

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.6	6.5	7.3	7.1	---	---	---	---	---	---	---	---
2	6.6	6.6	7.3	7.1	---	---	---	---	---	---	---	---
3	6.9	6.6	7.2	7.2	---	---	---	---	---	---	---	---
4	6.9	6.8	7.1	6.9	---	---	---	---	---	---	---	---
5	6.9	6.8	6.9	6.9	---	---	---	---	---	---	---	---
6	6.9	6.8	6.9	6.9	---	---	---	---	---	---	---	---
7	6.9	6.8	7.0	7.0	---	---	---	---	---	---	---	---
8	6.9	6.9	---	---	---	---	---	---	---	---	---	---
9	6.9	6.9	---	---	---	---	---	---	---	---	---	---
10	6.9	6.9	---	---	---	---	---	---	---	---	---	---
11	6.9	6.9	---	---	---	---	---	---	---	---	---	---
12	7.0	6.8	---	---	---	---	---	---	---	---	---	---
13	7.1	6.9	---	---	---	---	---	---	---	---	---	---
14	7.1	7.0	---	---	---	---	---	---	---	---	---	---
15	6.9	6.9	---	---	---	---	---	---	---	---	---	---
16	7.0	6.9	---	---	---	---	---	---	---	---	---	---
17	7.0	6.9	---	---	---	---	---	---	---	---	---	---
18	6.9	6.9	---	---	---	---	---	---	---	---	---	---
19	7.0	6.9	---	---	---	---	---	---	---	---	---	---
20	7.0	6.9	---	---	---	---	---	---	---	---	---	---
21	6.9	6.9	---	---	---	---	---	---	---	---	---	---
22	6.9	6.9	---	---	---	---	---	---	---	---	---	---
23	6.9	6.9	---	---	---	---	---	---	---	---	---	---
24	6.9	6.9	---	---	---	---	---	---	---	---	---	---
25	7.0	6.9	---	---	---	---	---	---	---	---	---	---
26	7.1	6.9	---	---	---	---	---	---	---	---	---	---
27	7.2	7.1	---	---	---	---	---	---	---	---	---	---
28	7.2	7.1	---	---	---	---	---	---	---	---	---	---
29	7.2	7.1	---	---	---	---	---	---	---	---	7.0	6.8
30	7.2	7.1	---	---	---	---	---	---	---	---	6.9	6.9
31	7.2	7.1	---	---	---	---	---	---	---	---	6.9	6.8
MONTH	7.2	6.5	7.3	6.9	---	---	---	---	---	---	7.0	6.8

PUMP NUMBER 1

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.9	6.8	6.5	6.5	6.4	6.3	6.5	6.4	6.7	6.6	6.6	6.6
2	6.9	6.7	---	---	6.4	6.3	6.5	6.4	6.7	6.6	6.6	6.6
3	6.8	6.7	6.5	6.5	6.4	6.3	6.5	6.5	6.6	6.6	6.6	6.6
4	6.8	6.8	6.6	6.5	6.3	6.3	6.5	6.4	6.6	6.6	6.6	6.6
5	6.8	6.8	6.6	6.5	6.4	6.2	6.5	6.4	6.7	6.6	6.6	6.6
6	6.8	6.7	6.6	6.5	6.2	6.2	6.5	6.5	6.7	6.6	6.6	6.6
7	6.8	6.7	6.7	6.5	6.2	6.2	6.5	6.4	6.7	6.6	6.6	6.6
8	6.8	6.7	6.6	6.5	6.3	6.2	6.6	6.5	6.7	6.6	6.5	6.5
9	6.7	6.7	6.6	6.5	6.3	6.3	6.6	6.5	6.7	6.6	6.5	6.5
10	6.8	6.7	6.7	6.5	6.3	6.3	6.6	6.6	6.8	6.7	6.5	6.5
11	6.8	6.6	6.7	6.6	6.3	6.3	6.6	6.6	6.8	6.8	6.5	6.5
12	6.6	6.6	6.6	6.6	6.3	6.3	6.6	6.6	6.8	6.8	6.7	6.5
13	6.7	6.6	---	---	6.3	6.3	6.6	6.6	6.8	6.8	6.8	6.7
14	6.6	6.5	---	---	6.3	6.3	6.6	6.5	6.8	6.7	6.8	6.7
15	6.6	6.6	---	---	6.3	6.3	6.5	6.4	6.7	6.7	6.7	6.7
16	6.6	6.5	6.6	6.5	6.3	6.3	6.5	6.4	6.7	6.6	6.7	6.6
17	6.5	6.5	6.7	6.6	6.3	6.3	6.5	6.4	6.7	6.6	6.6	6.6
18	6.5	6.5	6.6	6.5	6.3	6.3	6.5	6.4	6.5	6.5	6.6	6.6
19	6.5	6.5	6.6	6.5	6.3	6.3	6.5	6.4	6.6	6.5	6.6	6.6
20	6.5	6.4	6.5	6.5	6.3	6.3	6.5	6.4	6.6	6.5	6.6	6.6
21	6.4	6.4	6.5	6.5	6.4	6.3	6.7	6.4	6.6	6.5	6.6	6.6
22	6.4	6.4	6.5	6.5	6.4	6.3	6.7	6.7	6.6	6.5	6.6	6.6
23	6.4	6.4	6.5	6.5	6.4	6.3	6.8	6.7	6.6	6.5	6.6	6.6
24	6.4	6.3	6.5	6.5	6.4	6.3	6.8	6.7	6.6	6.5	6.6	6.6
25	6.4	6.4	6.5	6.5	6.4	6.3	6.8	6.7	6.8	6.5	6.6	6.6
26	6.4	6.3	6.5	6.4	6.4	6.3	6.8	6.7	6.8	6.8	6.6	6.6
27	6.4	6.3	6.4	6.4	6.4	6.4	6.8	6.7	6.8	6.8	6.7	6.6
28	6.5	6.4	6.4	6.4	6.5	6.4	6.8	6.7	6.8	6.8	6.8	6.7
29	6.5	6.4	6.4	6.4	6.4	6.4	6.7	6.7	6.8	6.8	6.8	6.7
30	6.5	6.4	6.4	6.4	6.5	6.4	6.7	6.7	6.7	6.6	6.7	6.7
31	---	---	6.4	6.4	---	---	6.7	6.6	6.7	6.6	---	---
MONTH	6.9	6.3	6.7	6.4	6.5	6.2	6.8	6.4	6.8	6.5	6.8	6.5
YEAR	7.3	6.2										

CUMBERLAND RIVER BASIN

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

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 2

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

PUMP NUMBER 2

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.1	7.0	6.5	6.5	6.5	6.4	6.3	6.2	6.5	6.4	6.4	6.3
2	7.3	6.9	---	---	6.5	6.4	6.3	6.2	6.5	6.4	6.4	6.3
3	7.3	6.9	6.7	6.5	6.5	6.4	6.3	6.2	6.4	6.4	6.4	6.4
4	7.2	6.9	6.6	6.5	6.4	6.4	6.3	6.2	6.4	6.3	6.5	6.4
5	7.0	6.9	6.7	6.6	6.4	6.3	6.3	6.3	6.4	6.4	6.5	6.4
6	7.0	6.8	6.7	6.6	6.4	6.3	6.3	6.2	6.5	6.4	6.5	6.4
7	6.9	6.8	6.7	6.6	6.4	6.3	6.3	6.2	6.5	6.4	6.4	6.4
8	7.3	6.8	6.7	6.6	6.4	6.2	6.3	6.2	6.5	6.4	6.4	6.3
9	7.3	6.8	6.7	6.6	6.4	6.3	6.3	6.2	6.5	6.4	6.4	6.3
10	6.8	6.8	6.9	6.7	6.4	6.3	6.3	6.2	6.5	6.4	6.4	6.3
11	6.8	6.7	7.0	6.7	6.4	6.3	6.3	6.2	6.5	6.4	6.4	6.3
12	6.7	6.7	6.8	6.6	6.4	6.3	6.3	6.2	6.5	6.4	6.5	6.3
13	6.7	6.7	---	---	6.4	6.3	6.3	6.3	6.5	6.5	6.4	6.4
14	6.7	6.6	---	---	6.4	6.3	6.3	6.1	6.5	6.4	6.4	6.4
15	6.7	6.6	---	---	6.3	6.3	6.2	6.1	6.5	6.4	6.4	6.4
16	6.7	6.6	6.6	6.5	6.4	6.3	6.2	6.1	6.5	6.4	6.4	6.4
17	6.7	6.6	6.7	6.6	6.4	6.3	6.2	6.1	6.5	6.4	6.4	6.4
18	7.1	6.6	6.6	6.6	6.3	6.3	6.2	6.2	6.4	6.3	6.4	6.4
19	6.9	6.5	6.7	6.5	6.3	6.3	6.2	6.1	6.4	6.3	6.4	6.4
20	6.7	6.4	6.6	6.5	6.3	6.3	6.2	6.2	6.4	6.3	6.4	6.4
21	6.6	6.4	6.6	6.5	6.3	6.3	6.3	6.2	6.4	6.4	6.4	6.4
22	6.6	6.4	6.6	6.5	6.4	6.3	6.4	6.3	6.4	6.4	6.4	6.4
23	6.5	6.4	6.6	6.5	6.4	6.2	6.4	6.3	6.4	6.4	6.5	6.5
24	6.5	6.4	6.5	6.5	6.3	6.2	6.4	6.3	6.4	6.3	6.5	6.5
25	6.5	6.5	6.5	6.5	6.3	6.3	6.4	6.3	6.5	6.4	6.5	6.5
26	6.5	6.4	6.5	6.5	6.3	6.3	6.4	6.3	6.6	6.5	6.5	6.5
27	6.4	6.4	6.5	6.5	6.3	6.2	6.4	6.3	6.5	6.5	6.4	6.4
28	6.5	6.4	6.5	6.5	6.3	6.2	6.4	6.3	6.5	6.5	6.5	6.4
29	6.5	6.5	6.5	6.4	6.3	6.2	6.4	6.3	6.5	6.5	6.5	6.4
30	6.5	6.5	6.5	6.4	6.3	6.3	6.4	6.3	6.4	6.4	6.5	6.4
31	---	---	6.5	6.4	---	---	6.4	6.3	6.4	6.4	---	---
MONTH	7.3	6.4	7.0	6.4	6.5	6.2	6.4	6.1	6.6	6.3	6.5	6.3
YEAR	7.3	6.1										

CUMBERLAND RIVER BASIN

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

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 3

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

PUMP NUMBER 3

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.3	7.2	7.1	6.6	7.1	6.9	7.2	7.0	6.9	6.9	6.8	6.7
2	7.4	7.1	---	---	7.0	6.7	7.2	7.0	7.0	6.9	6.8	6.7
3	7.4	7.2	6.9	6.6	7.3	6.9	7.3	6.9	6.9	6.9	6.8	6.6
4	7.3	7.2	7.0	6.7	7.1	6.9	7.3	6.9	7.0	6.9	6.7	6.7
5	7.2	7.2	6.8	6.6	7.0	6.9	7.1	6.6	7.0	6.9	6.8	6.7
6	7.2	7.2	7.2	6.7	7.0	6.9	7.1	6.8	7.0	6.8	6.8	6.7
7	7.2	7.2	7.2	6.8	7.2	6.9	7.0	6.8	6.9	6.8	6.7	6.6
8	7.3	7.2	7.2	6.8	7.2	7.0	7.0	6.8	6.9	6.8	6.7	6.5
9	7.3	7.2	7.3	7.1	7.2	7.0	7.0	6.8	6.9	6.8	6.7	6.7
10	7.3	7.2	7.2	6.9	7.1	6.9	7.1	6.7	6.9	6.8	6.7	6.6
11	7.2	7.1	7.3	7.0	7.1	6.9	7.0	6.8	6.9	6.8	6.7	6.6
12	7.2	7.1	7.3	6.9	7.1	6.9	7.0	6.7	6.9	6.7	6.8	6.7
13	7.1	7.1	---	---	7.0	7.0	6.8	6.8	6.9	6.8	6.8	6.7
14	7.2	7.0	---	---	7.0	7.0	6.8	6.7	6.9	6.8	6.8	6.6
15	7.1	7.0	---	---	7.1	7.0	6.7	6.5	6.8	6.7	6.8	6.7
16	7.2	7.1	6.7	6.5	7.1	6.8	6.7	6.6	6.9	6.8	6.8	6.7
17	7.1	7.1	6.7	6.6	7.1	6.8	6.7	6.5	6.9	6.7	6.7	6.6
18	7.1	6.9	6.7	6.7	7.1	6.8	6.7	6.6	6.8	6.7	6.7	6.6
19	7.1	7.1	6.9	6.6	7.0	6.9	6.8	6.7	6.8	6.8	6.6	6.6
20	7.1	6.9	6.6	6.6	7.2	6.7	6.9	6.7	6.9	6.8	6.7	6.6
21	7.0	6.9	6.6	6.5	7.2	6.9	7.0	6.7	6.9	6.8	6.7	6.6
22	7.0	6.8	6.5	6.5	7.2	6.8	7.1	6.8	6.8	6.7	6.7	6.6
23	6.9	6.8	6.7	6.5	7.2	6.9	7.0	6.9	6.8	6.8	6.6	6.6
24	6.9	6.8	7.1	6.5	7.3	7.1	7.0	6.7	6.8	6.7	6.6	6.6
25	6.9	6.6	7.0	6.5	7.2	7.0	7.0	6.6	7.0	6.8	6.7	6.6
26	6.9	6.5	7.0	6.7	7.1	7.0	6.9	6.7	7.0	6.9	6.6	6.6
27	6.9	6.5	7.0	6.6	7.3	6.9	6.9	6.8	6.9	6.9	6.6	6.5
28	6.9	6.6	7.0	6.7	7.3	7.0	7.0	6.7	6.9	6.9	6.6	6.6
29	6.9	6.6	7.1	6.6	7.2	7.0	6.9	6.7	6.9	6.9	6.7	6.6
30	7.0	6.6	7.1	6.7	7.3	6.9	6.9	6.9	6.8	6.8	6.6	6.5
31	---	---	7.1	6.7	---	---	6.9	6.8	6.8	6.8	---	---
MONTH	7.4	6.5	7.3	6.5	7.3	6.7	7.3	6.5	7.0	6.7	6.8	6.5
YEAR	7.4	6.5										

CUMBERLAND RIVER BASIN

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

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 4

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

PUMP NUMBER 4

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	---	---	7.1	7.0	---	---
2	---	---	---	---	---	---	---	---	7.1	7.0	---	---
3	---	---	---	---	---	---	---	---	7.1	7.0	---	---
4	---	---	---	---	---	---	---	---	7.0	7.0	---	---
5	---	---	---	---	---	---	---	---	7.1	7.0	---	---
6	---	---	---	---	---	---	---	---	7.1	7.0	---	---
7	---	---	---	---	---	---	---	---	6.9	6.9	---	---
8	---	---	---	---	---	---	7.2	7.1	6.9	6.9	---	---
9	---	---	---	---	---	---	7.2	7.1	6.9	6.8	---	---
10	---	---	---	---	---	---	7.2	7.0	7.0	6.9	---	---
11	---	---	---	---	---	---	7.1	7.0	7.0	7.0	---	---
12	---	---	---	---	---	---	7.3	7.0	7.1	7.0	---	---
13	---	---	---	---	---	---	7.0	7.0	7.1	7.0	---	---
14	---	---	---	---	---	---	7.1	6.9	7.1	7.0	---	---
15	---	---	---	---	---	---	6.9	6.9	7.1	7.0	---	---
16	---	---	---	---	---	---	6.9	6.9	7.1	7.0	---	---
17	---	---	---	---	---	---	6.9	6.9	7.1	7.0	---	---
18	---	---	---	---	---	---	6.9	6.8	7.0	7.0	---	---
19	---	---	---	---	---	---	6.9	6.8	7.0	6.9	---	---
20	---	---	---	---	---	---	7.0	6.9	7.0	7.0	---	---
21	---	---	---	---	---	---	7.1	6.9	7.0	6.9	---	---
22	---	---	---	---	---	---	7.1	7.0	7.0	6.9	---	---
23	---	---	---	---	---	---	7.1	7.1	---	---	---	---
24	---	---	---	---	---	---	7.1	7.1	---	---	---	---
25	---	---	---	---	---	---	7.1	7.0	---	---	---	---
26	---	---	---	---	---	---	7.0	7.0	---	---	---	---
27	---	---	---	---	---	---	7.1	6.9	---	---	---	---
28	---	---	---	---	---	---	7.1	7.0	---	---	---	---
29	---	---	---	---	---	---	7.1	7.0	---	---	---	---
30	---	---	---	---	---	---	7.1	6.9	---	---	---	---
31	---	---	---	---	---	---	7.3	7.0	---	---	---	---
MONTH	---	---	---	---	---	---	7.3	6.8	7.1	6.8	---	---
YEAR	7.3	6.8										

CUMBERLAND RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	20.4	20.2	20.3	17.2	16.4	16.7	---	---	---	---	---	---
2	20.4	20.4	20.4	16.4	16.1	16.2	---	---	---	---	---	---
3	20.4	20.2	20.3	16.1	15.9	16.0	---	---	---	---	---	---
4	20.6	20.4	20.5	15.9	15.7	15.8	---	---	---	---	---	---
5	20.6	20.4	20.5	15.7	15.5	15.6	---	---	---	---	---	---
6	20.8	20.4	20.7	15.5	15.3	15.4	---	---	---	---	---	---
7	21.0	20.4	20.7	15.5	15.3	15.4	---	---	---	---	---	---
8	20.8	20.8	20.8	---	---	---	---	---	---	---	---	---
9	20.8	20.6	20.8	---	---	---	---	---	---	---	---	---
10	20.8	20.6	20.7	---	---	---	---	---	---	---	---	---
11	20.8	20.2	20.6	---	---	---	---	---	---	---	---	---
12	20.0	19.8	20.0	---	---	---	---	---	---	---	---	---
13	19.8	19.6	19.7	---	---	---	---	---	---	---	---	---
14	19.6	19.4	19.5	---	---	---	---	---	---	---	---	---
15	19.4	19.0	19.2	---	---	---	---	---	---	---	---	---
16	19.0	18.8	18.9	---	---	---	---	---	---	---	---	---
17	18.8	18.6	18.7	---	---	---	---	---	---	---	---	---
18	18.8	18.6	18.7	---	---	---	---	---	---	---	---	---
19	18.8	18.6	18.6	---	---	---	---	---	---	---	---	---
20	18.6	18.6	18.6	---	---	---	---	---	---	---	---	---
21	18.6	18.4	18.6	---	---	---	---	---	---	---	---	---
22	18.4	18.4	18.4	---	---	---	---	---	---	---	---	---
23	18.4	18.2	18.3	---	---	---	---	---	---	---	---	---
24	18.2	18.0	18.0	---	---	---	---	---	---	---	---	---
25	18.2	18.0	18.0	---	---	---	---	---	---	---	---	---
26	18.2	18.0	18.1	---	---	---	---	---	---	---	---	---
27	17.8	17.4	17.7	---	---	---	---	---	---	---	---	---
28	17.6	17.2	17.3	---	---	---	---	---	---	---	---	---
29	17.2	16.8	17.0	---	---	---	---	---	---	---	---	---
30	16.8	16.4	16.6	---	---	---	---	---	---	---	---	---
31	16.6	16.4	16.5	---	---	---	---	---	---	---	---	---
MONTH	21.0	16.4	19.1	17.2	15.3	15.9	---	---	---	---	---	---

PUMP NUMBER 1

		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	12.1	11.9	12.0	14.5	14.1	14.3
2	---	---	---	---	---	---	12.5	11.7	12.0	---	---	---
3	---	---	---	---	---	---	11.9	11.9	11.9	15.1	14.3	14.5
4	---	---	---	---	---	---	12.3	11.9	12.2	14.7	14.3	14.4
5	---	---	---	---	---	---	12.5	12.1	12.3	14.7	14.1	14.4
6	---	---	---	---	---	---	12.3	12.1	12.2	14.7	14.1	14.4
7	---	---	---	---	---	---	12.3	12.1	12.2	14.9	14.3	14.5
8	---	---	---	---	---	---	12.5	12.3	12.4	14.7	14.5	14.6
9	---	---	---	---	---	---	12.5	12.3	12.4	14.9	14.7	14.7
10	---	---	---	---	---	---	12.9	12.5	12.7	14.7	14.5	14.6
11	---	---	---	---	---	---	12.9	12.7	12.7	15.7	15.1	15.3
12	---	---	---	---	---	---	13.1	12.7	12.9	15.7	15.1	15.4
13	---	---	---	---	---	---	13.1	12.9	13.0	---	---	---
14	---	---	---	---	---	---	13.3	12.9	13.1	---	---	---
15	---	---	---	---	---	---	13.3	13.1	13.3	---	---	---
16	---	---	---	---	---	---	13.3	13.1	13.3	---	---	---
17	---	---	---	---	---	---	13.5	13.1	13.2	15.3	14.9	15.2
18	---	---	---	---	---	---	13.5	13.3	13.4	15.5	14.9	15.3
19	---	---	---	---	---	---	13.5	13.3	13.4	15.5	15.1	15.3
20	---	---	---	---	---	---	13.7	13.5	13.6	15.5	15.3	15.4
21	---	---	---	---	---	---	13.9	13.7	13.7	15.7	15.5	15.6
22	---	---	---	---	---	---	14.1	13.9	13.9	15.9	15.5	15.7
23	---	---	---	---	---	---	14.1	13.9	14.0	15.7	15.5	15.7
24	---	---	---	---	---	---	14.1	13.9	14.0	16.1	15.7	15.9
25	---	---	---	---	---	---	14.1	13.9	14.0	16.3	15.7	16.0
26	---	---	---	---	---	---	14.1	13.9	13.9	16.3	15.7	16.0
27	---	---	---	---	---	---	13.9	13.5	13.7	15.7	15.7	15.7
28	---	---	---	---	---	---	13.9	13.5	13.7	15.9	15.7	15.8
29	---	---	---	12.3	11.7	12.1	14.3	13.9	14.1	16.1	15.7	15.9
30	---	---	---	12.9	11.9	12.4	14.3	13.9	14.2	16.1	15.7	15.9
31	---	---	---	12.5	11.9	12.3	---	---	---	16.3	15.7	16.0
MONTH	---	---	---	12.9	11.7	12.3	14.3	11.7	13.1	16.3	14.1	15.2

CUMBERLAND RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.3	15.9	16.1	15.9	15.7	15.9	16.4	16.1	16.2	16.4	16.3	16.4
2	16.4	15.9	16.2	15.9	15.9	15.9	16.3	16.1	16.3	16.4	16.3	16.4
3	16.8	16.3	16.4	15.9	15.7	15.8	16.3	16.1	16.2	16.4	16.3	16.4
4	16.6	16.4	16.5	15.9	15.7	15.8	16.3	16.1	16.1	16.4	16.3	16.4
5	16.8	16.3	16.6	16.1	15.9	16.0	16.3	16.1	16.2	16.4	16.3	16.4
6	16.3	16.1	16.3	16.1	15.9	16.0	16.3	15.9	16.1	16.4	16.3	16.4
7	16.3	15.9	16.1	16.1	15.9	16.0	16.3	16.1	16.2	16.4	16.3	16.4
8	16.1	15.9	16.0	15.9	15.9	15.9	16.3	16.1	16.2	16.4	16.4	16.4
9	16.1	15.9	16.1	16.1	15.9	15.9	16.3	16.1	16.2	16.4	16.3	16.4
10	16.1	15.9	16.0	16.1	15.9	16.0	16.3	16.1	16.2	16.4	16.3	16.4
11	16.1	15.9	15.9	16.1	15.9	16.0	16.1	16.1	16.1	16.4	16.4	16.4
12	16.1	15.9	15.9	15.9	15.9	15.9	16.3	16.1	16.2	16.4	16.3	16.4
13	16.1	15.7	15.9	16.1	15.9	16.0	16.3	16.1	16.2	16.6	16.3	16.4
14	15.9	15.7	15.8	16.1	15.9	15.9	16.3	16.1	16.3	16.6	16.4	16.4
15	15.9	15.9	15.9	15.9	15.9	15.9	16.3	16.1	16.2	16.6	16.4	16.5
16	15.9	15.7	15.9	16.1	15.9	16.0	16.3	16.1	16.2	16.4	16.4	16.4
17	15.9	15.9	15.9	16.1	15.9	16.0	16.3	16.1	16.3	16.4	16.4	16.4
18	15.9	15.7	15.8	16.1	15.9	16.0	16.3	16.1	16.3	16.6	16.4	16.5
19	15.9	15.7	15.9	16.1	15.9	16.0	16.3	16.3	16.3	16.4	16.4	16.4
20	15.9	15.7	15.8	16.1	15.9	15.9	16.3	16.1	16.2	16.6	16.3	16.4
21	15.9	15.7	15.8	16.1	15.9	16.1	16.4	16.3	16.3	16.6	16.4	16.5
22	15.9	15.7	15.8	16.1	15.9	16.0	16.4	16.3	16.3	16.6	16.4	16.5
23	15.9	15.7	15.8	16.1	15.9	16.0	16.4	16.1	16.3	16.6	16.4	16.4
24	15.9	15.7	15.8	16.1	15.9	16.0	16.4	16.3	16.4	16.6	16.4	16.4
25	15.9	15.7	15.8	16.3	15.9	16.1	16.4	16.3	16.3	16.4	16.4	16.4
26	15.9	15.7	15.8	16.3	16.1	16.2	16.3	16.3	16.3	16.6	16.4	16.5
27	15.9	15.7	15.9	16.1	15.9	16.1	16.4	16.3	16.3	16.6	16.4	16.4
28	15.9	15.7	15.8	16.1	15.9	16.1	16.4	16.3	16.3	16.6	16.4	16.4
29	16.1	15.7	15.9	16.1	15.9	16.1	16.4	16.3	16.3	16.6	16.4	16.4
30	15.9	15.7	15.8	16.3	16.1	16.1	16.4	16.3	16.4	16.6	16.4	16.6
31	---	---	---	16.3	16.1	16.2	16.4	16.3	16.3	---	---	---
MONTH	16.8	15.7	16.0	16.3	15.7	16.0	16.4	15.9	16.2	16.6	16.3	16.4
YEAR	21.0	11.7	16.0									

PUMP NUMBER 2

		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22.3	22.1	22.1	17.8	17.0	17.4	---	---	---	---	---	---
2	22.3	22.1	22.2	17.0	16.3	16.6	---	---	---	---	---	---
3	22.1	21.7	22.0	16.6	16.3	16.4	---	---	---	---	---	---
4	22.1	21.7	21.9	16.6	15.9	16.3	---	---	---	---	---	---
5	22.1	21.7	21.8	16.8	15.7	16.3	---	---	---	---	---	---
6	21.7	21.4	21.6	16.6	16.3	16.6	---	---	---	---	---	---
7	21.5	21.4	21.4	16.3	15.7	16.0	---	---	---	---	---	---
8	21.4	21.2	21.3	---	---	---	---	---	---	---	---	---
9	21.4	21.2	21.3	---	---	---	---	---	---	---	---	---
10	21.2	21.0	21.1	---	---	---	---	---	---	---	---	---
11	21.0	20.2	20.7	---	---	---	---	---	---	---	---	---
12	20.2	19.8	20.0	---	---	---	---	---	---	---	---	---
13	20.0	19.6	19.7	---	---	---	---	---	---	---	---	---
14	19.6	19.4	19.5	---	---	---	---	---	---	---	---	---
15	19.6	19.2	19.4	---	---	---	---	---	---	---	---	---
16	19.4	19.0	19.2	---	---	---	---	---	---	---	---	---
17	19.2	19.0	19.2	---	---	---	---	---	---	---	---	---
18	19.2	18.8	19.0	---	---	---	---	---	---	---	---	---
19	19.2	18.8	19.1	---	---	---	---	---	---	---	---	---
20	19.0	18.8	18.9	---	---	---	---	---	---	---	---	---
21	19.0	18.8	18.9	---	---	---	---	---	---	---	---	---
22	18.8	18.6	18.7	---	---	---	---	---	---	---	---	---
23	18.8	18.6	18.7	---	---	---	---	---	---	---	---	---
24	18.6	18.4	18.6	---	---	---	---	---	---	---	---	---
25	18.4	18.2	18.3	---	---	---	---	---	---	---	---	---
26	18.2	17.8	18.0	---	---	---	---	---	---	---	---	---
27	17.8	17.4	17.6	---	---	---	---	---	---	---	---	---
28	17.4	17.0	17.2	---	---	---	---	---	---	---	---	---
29	17.2	16.8	17.0	---	---	---	---	---	---	---	---	---
30	17.2	16.8	17.0	---	---	---	---	---	---	---	---	---
31	17.8	16.8	17.3	---	---	---	---	---	---	---	---	---
MONTH	22.3	16.8	19.6	17.8	15.7	16.5	---	---	---	---	---	---

CUMBERLAND RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	13.5	12.5	13.1	15.1	14.7	14.9
2	---	---	---	---	---	---	14.7	12.5	13.3	---	---	---
3	---	---	---	---	---	---	15.3	12.5	13.8	15.7	14.5	14.9
4	---	---	---	---	---	---	15.3	12.7	13.8	14.9	14.5	14.7
5	---	---	---	---	---	---	13.5	12.7	13.0	15.3	14.7	15.0
6	---	---	---	---	---	---	13.5	12.7	13.0	15.3	14.7	15.0
7	---	---	---	---	---	---	13.5	12.7	13.0	15.5	14.9	15.2
8	---	---	---	---	---	---	16.6	12.7	13.7	15.3	15.1	15.1
9	---	---	---	---	---	---	16.4	13.1	14.3	15.7	15.1	15.4
10	---	---	---	---	---	---	13.9	13.3	13.6	16.1	15.3	15.7
11	---	---	---	---	---	---	13.9	13.3	13.5	16.4	15.7	16.1
12	---	---	---	---	---	---	14.3	13.3	13.7	16.3	15.5	15.9
13	---	---	---	---	---	---	14.1	13.3	13.6	---	---	---
14	---	---	---	---	---	---	13.7	13.3	13.6	---	---	---
15	---	---	---	---	---	---	14.1	13.5	13.8	---	---	---
16	---	---	---	---	---	---	14.9	13.7	14.0	15.5	15.1	15.3
17	---	---	---	---	---	---	14.1	13.7	14.0	15.5	14.9	15.3
18	---	---	---	---	---	---	17.2	13.9	14.6	15.5	15.1	15.4
19	---	---	---	---	---	---	16.8	13.7	14.8	16.1	15.3	15.7
20	---	---	---	---	---	---	15.3	14.1	14.5	16.1	15.5	15.9
21	---	---	---	---	---	---	15.3	14.3	14.6	16.4	16.1	16.2
22	---	---	---	---	---	---	15.3	14.3	14.5	16.3	15.9	16.2
23	---	---	---	---	---	---	14.9	14.3	14.6	16.6	16.1	16.4
24	---	---	---	---	---	---	14.9	14.3	14.5	16.6	16.1	16.4
25	---	---	---	---	---	---	15.3	14.5	14.7	17.0	16.4	16.6
26	---	---	---	---	---	---	14.7	14.3	14.4	16.8	16.3	16.5
27	---	---	---	---	---	---	14.7	13.9	14.2	16.4	16.1	16.3
28	---	---	---	---	---	---	14.9	14.1	14.5	16.4	16.4	16.4
29	---	---	---	15.3	13.3	14.3	14.7	14.3	14.6	17.0	16.3	16.6
30	---	---	---	14.3	12.5	13.4	15.1	14.3	14.7	17.0	16.4	16.6
31	---	---	---	13.9	12.5	13.4	---	---	---	16.8	16.3	16.5
MONTH	---	---	---	15.3	12.5	13.7	17.2	12.5	14.0	17.0	14.5	15.8

PUMP NUMBER 2

		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.0	16.4	16.7	18.4	17.8	18.1	20.0	19.0	19.4	21.5	20.6	21.2
2	17.4	16.8	16.9	18.4	17.8	18.1	20.6	18.8	19.4	22.3	20.4	21.4
3	18.0	17.0	17.3	18.6	17.8	18.1	20.2	19.4	19.7	21.9	21.0	21.4
4	18.0	17.4	17.5	18.4	17.6	18.2	20.0	19.2	19.7	21.9	20.4	21.4
5	17.8	17.0	17.5	18.8	17.8	18.3	20.2	19.4	19.6	21.9	21.0	21.5
6	17.2	16.8	16.9	19.0	17.8	18.4	20.2	19.0	19.7	22.1	20.8	21.6
7	17.4	16.6	17.0	19.2	17.8	18.5	20.0	19.2	19.7	22.1	21.2	21.6
8	17.0	16.4	16.8	18.4	18.0	18.2	20.2	19.4	19.8	22.1	21.4	21.7
9	17.2	16.6	17.0	18.6	18.0	18.3	20.0	19.4	19.8	22.3	21.0	22.0
10	17.4	16.8	17.0	18.4	18.2	18.3	21.0	19.6	20.0	22.5	21.0	22.0
11	17.4	16.3	17.0	19.0	17.8	18.5	20.8	19.0	20.0	22.5	21.2	22.0
12	17.6	16.8	17.2	18.8	17.8	18.5	21.0	19.6	20.2	22.9	21.4	22.2
13	17.6	17.0	17.2	18.8	18.2	18.4	20.6	19.4	20.0	23.7	21.0	22.5
14	17.6	17.0	17.1	19.0	18.2	18.6	21.0	19.0	20.2	22.9	21.9	22.4
15	18.2	17.0	17.4	19.0	18.2	18.7	20.8	19.8	20.3	23.3	21.9	22.5
16	18.2	17.0	17.5	19.2	18.4	18.7	21.0	19.6	20.4	23.1	22.1	22.5
17	17.8	17.0	17.4	19.4	18.4	18.7	21.0	19.4	20.3	22.9	22.1	22.6
18	17.8	17.2	17.6	19.0	18.6	18.8	21.0	20.0	20.4	23.1	22.3	22.7
19	18.0	17.4	17.7	19.2	18.4	18.9	21.0	20.2	20.5	23.5	21.5	22.6
20	18.4	17.4	17.7	19.4	18.4	18.9	21.2	20.2	20.7	23.1	22.3	22.9
21	18.4	17.6	17.8	19.8	18.4	19.1	21.0	20.2	20.6	23.3	22.1	22.8
22	18.6	17.2	18.0	19.8	18.4	19.2	21.0	20.2	20.6	22.9	22.1	22.6
23	18.4	17.2	17.9	19.4	18.4	19.0	21.0	20.4	20.7	22.7	22.3	22.4
24	18.6	17.6	18.1	19.4	18.6	19.2	21.4	20.4	20.8	22.3	21.9	22.0
25	18.2	17.6	18.0	19.8	19.0	19.4	21.2	20.2	20.8	22.1	21.2	21.8
26	18.4	17.6	18.0	19.8	18.6	19.2	21.5	20.0	20.8	21.9	21.2	21.5
27	18.4	17.4	17.9	19.6	18.8	19.1	21.4	20.4	20.9	21.5	21.2	21.4
28	18.6	17.4	18.0	19.4	18.6	19.3	21.4	20.2	21.0	21.5	21.0	21.3
29	18.6	17.4	18.1	19.8	18.8	19.3	21.7	20.4	21.0	21.7	20.8	21.3
30	18.2	17.8	18.0	20.2	19.0	19.4	21.5	20.2	21.0	21.5	21.0	21.3
31	---	---	---	19.6	18.6	19.3	21.7	21.0	21.3	---	---	---
MONTH	18.6	16.3	17.5	20.2	17.6	18.7	21.7	18.8	20.3	23.7	20.4	22.0
YEAR	23.7	12.5	18.2									

CUMBERLAND RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22.9	22.7	22.8	17.4	17.0	17.3	---	---	---	---	---	---
2	22.9	22.5	22.6	17.4	16.8	17.0	---	---	---	---	---	---
3	22.7	22.5	22.6	17.0	16.3	16.6	---	---	---	---	---	---
4	22.5	22.1	22.4	16.8	16.1	16.5	---	---	---	---	---	---
5	22.3	22.1	22.1	17.0	15.9	16.4	---	---	---	---	---	---
6	22.1	21.7	21.8	17.0	16.3	16.8	---	---	---	---	---	---
7	21.9	21.7	21.7	16.4	15.9	16.1	---	---	---	---	---	---
8	21.9	21.7	21.8	---	---	---	---	---	---	---	---	---
9	21.7	21.5	21.6	---	---	---	---	---	---	---	---	---
10	21.9	21.2	21.4	---	---	---	---	---	---	---	---	---
11	21.4	20.6	20.8	---	---	---	---	---	---	---	---	---
12	20.4	20.0	20.2	---	---	---	---	---	---	---	---	---
13	20.0	19.8	19.9	---	---	---	---	---	---	---	---	---
14	19.8	19.6	19.7	---	---	---	---	---	---	---	---	---
15	20.0	19.4	19.6	---	---	---	---	---	---	---	---	---
16	20.0	19.4	19.7	---	---	---	---	---	---	---	---	---
17	19.6	19.4	19.5	---	---	---	---	---	---	---	---	---
18	20.2	19.4	19.8	---	---	---	---	---	---	---	---	---
19	19.4	19.2	19.3	---	---	---	---	---	---	---	---	---
20	19.6	19.0	19.3	---	---	---	---	---	---	---	---	---
21	19.8	19.0	19.2	---	---	---	---	---	---	---	---	---
22	19.2	19.0	19.0	---	---	---	---	---	---	---	---	---
23	19.4	18.8	19.1	---	---	---	---	---	---	---	---	---
24	19.4	18.8	19.0	---	---	---	---	---	---	---	---	---
25	19.0	18.4	18.7	---	---	---	---	---	---	---	---	---
26	18.4	18.0	18.3	---	---	---	---	---	---	---	---	---
27	18.4	17.6	18.0	---	---	---	---	---	---	---	---	---
28	18.4	17.2	17.7	---	---	---	---	---	---	---	---	---
29	18.2	17.2	17.5	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	22.9	17.2	20.2	17.4	15.9	16.7	---	---	---	---	---	---

PUMP NUMBER 3

		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	16.1	14.3	15.1	17.0	16.3	16.6
2	---	---	---	---	---	---	15.5	13.9	14.7	---	---	---
3	---	---	---	---	---	---	16.1	14.5	15.1	16.6	15.9	16.2
4	---	---	---	---	---	---	16.1	14.5	15.3	18.0	16.3	16.9
5	---	---	---	---	---	---	16.3	14.5	15.4	16.3	15.7	16.1
6	---	---	---	---	---	---	17.2	14.9	15.9	16.8	15.9	16.5
7	---	---	---	---	---	---	16.8	15.1	15.8	17.0	16.4	16.7
8	---	---	---	---	---	---	17.2	15.3	16.4	17.6	16.4	16.8
9	---	---	---	---	---	---	17.2	16.1	16.6	17.8	17.0	17.4
10	---	---	---	---	---	---	19.6	16.6	18.0	17.4	16.6	17.0
11	---	---	---	---	---	---	19.2	17.2	18.5	17.8	16.8	17.3
12	---	---	---	---	---	---	18.8	18.2	18.4	17.6	17.0	17.3
13	---	---	---	---	---	---	18.6	17.0	17.7	---	---	---
14	---	---	---	---	---	---	18.2	16.8	17.2	---	---	---
15	---	---	---	---	---	---	17.8	16.6	17.1	---	---	---
16	---	---	---	---	---	---	18.2	17.0	17.6	16.4	15.7	16.1
17	---	---	---	---	---	---	18.2	17.4	17.8	16.4	16.1	16.2
18	---	---	---	---	---	---	19.2	17.2	18.3	16.8	16.3	16.5
19	---	---	---	---	---	---	20.0	18.6	19.3	16.8	16.3	16.5
20	---	---	---	---	---	---	19.8	18.8	19.2	17.0	16.4	16.7
21	---	---	---	---	---	---	20.2	19.4	19.7	17.2	16.6	16.9
22	---	---	---	---	---	---	20.4	18.2	19.3	17.2	16.8	17.0
23	---	---	---	---	---	---	18.6	18.2	18.4	17.6	17.2	17.3
24	---	---	---	---	---	---	18.2	17.4	17.9	17.8	17.0	17.5
25	---	---	---	---	---	---	17.6	16.3	17.0	18.8	17.2	18.1
26	---	---	---	---	---	---	18.0	15.7	16.8	20.0	18.0	18.9
27	---	---	---	---	---	---	18.0	15.9	16.8	19.2	17.6	18.7
28	---	---	---	---	---	---	16.8	15.7	16.3	20.2	18.4	19.0
29	---	---	---	16.3	15.7	15.9	17.2	16.1	16.6	20.4	18.4	19.4
30	---	---	---	16.4	14.9	15.5	18.2	16.3	17.0	21.2	19.0	20.1
31	---	---	---	15.5	14.3	14.9	---	---	---	20.8	19.0	20.1
MONTH	---	---	---	16.4	14.3	15.4	20.4	13.9	17.2	21.2	15.7	17.4

CUMBERLAND RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.9	19.8	20.8	25.5	24.9	25.2	29.4	29.0	29.2	28.6	28.0	28.3
2	24.3	20.6	21.4	25.9	24.7	25.3	29.6	29.2	29.3	28.2	27.6	27.8
3	24.7	21.0	22.3	26.3	24.5	25.3	29.6	29.2	29.3	27.4	27.0	27.3
4	22.3	21.9	22.1	27.6	24.5	25.7	29.2	28.8	29.0	27.2	26.8	27.1
5	22.5	21.9	22.2	27.6	24.5	26.0	29.6	28.8	29.1	27.0	26.7	26.8
6	23.3	22.5	22.8	28.2	25.1	26.2	29.2	28.4	28.7	26.8	26.7	26.8
7	25.3	21.7	23.3	27.0	25.5	26.4	28.4	28.0	28.2	26.7	26.5	26.6
8	23.5	22.1	23.0	27.2	25.7	26.4	28.0	27.8	27.8	26.5	26.3	26.5
9	23.7	23.1	23.3	26.8	25.9	26.6	27.6	27.4	27.5	26.7	26.3	26.5
10	24.1	22.5	23.3	27.0	25.9	26.5	27.6	27.4	27.5	26.7	26.3	26.4
11	24.7	23.3	24.0	27.0	26.7	26.8	27.8	27.4	27.6	26.3	25.9	26.1
12	24.7	22.5	23.7	27.6	26.3	26.9	27.8	27.4	27.6	26.5	26.1	26.3
13	24.5	23.5	23.8	27.2	26.7	27.0	27.8	27.4	27.6	26.5	25.9	26.1
14	24.5	23.9	24.2	27.6	26.7	27.1	28.0	27.6	27.7	25.9	25.5	25.8
15	24.7	24.1	24.3	27.6	26.7	27.2	28.2	27.6	27.9	25.9	25.7	25.7
16	24.5	23.5	24.0	27.8	27.4	27.5	28.6	28.0	28.3	25.9	25.5	25.7
17	24.3	23.3	24.0	28.4	26.8	27.5	28.8	28.0	28.5	25.3	25.3	25.3
18	24.9	24.1	24.6	28.2	27.4	27.9	28.8	28.2	28.5	25.3	24.9	25.1
19	24.5	24.1	24.2	28.6	28.0	28.4	29.0	28.4	28.7	25.1	24.5	24.8
20	24.9	24.3	24.5	29.0	28.0	28.4	29.0	29.0	29.0	24.9	24.7	24.9
21	24.7	24.1	24.5	29.0	27.4	28.5	29.0	28.6	28.8	24.7	24.5	24.6
22	24.9	23.7	24.3	29.4	28.2	28.6	29.2	28.4	28.8	24.5	24.1	24.3
23	24.9	23.9	24.6	29.2	28.0	28.4	28.8	28.4	28.6	23.7	23.3	23.4
24	25.3	24.1	24.6	29.4	27.2	28.3	28.8	28.4	28.6	23.1	22.9	23.0
25	25.1	24.1	24.7	29.8	27.4	28.7	28.8	28.6	28.7	23.1	22.5	22.9
26	25.1	24.1	24.6	28.8	28.4	28.6	28.8	28.4	28.6	22.7	22.5	22.6
27	25.3	23.7	24.7	29.0	28.4	28.7	28.6	28.2	28.4	22.7	22.5	22.6
28	25.5	24.5	25.1	29.4	28.4	28.9	28.2	28.0	28.1	22.5	22.3	22.4
29	25.7	24.5	25.0	29.0	28.6	28.7	28.2	27.8	28.0	22.7	22.5	22.5
30	25.7	24.5	25.1	29.0	28.6	28.9	28.4	28.0	28.2	22.5	22.3	22.4
31	---	---	---	29.0	28.4	28.9	29.0	28.2	28.5	---	---	---
MONTH	25.7	19.8	23.8	29.8	24.5	27.4	29.6	27.4	28.4	28.6	22.3	25.2
YEAR	29.8	13.9	22.6									

PUMP NUMBER 4

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO JANUARY 1995

		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	23.7	22.9	23.3	---	---	---	---	---	---	---	---	---
2	23.1	22.7	23.0	---	---	---	---	---	---	---	---	---
3	22.7	22.5	22.5	---	---	---	---	---	---	---	---	---
4	23.1	22.1	22.3	---	---	---	---	---	---	---	---	---
5	22.1	21.7	21.9	---	---	---	---	---	---	---	---	---
6	23.1	21.5	22.2	---	---	---	---	---	---	---	---	---
7	23.3	21.7	22.5	---	---	---	---	---	---	---	---	---
8	23.9	21.5	22.4	---	---	---	---	---	---	---	---	---
9	21.9	21.4	21.5	---	---	---	---	---	---	---	---	---
10	22.3	21.0	21.4	---	---	---	---	---	---	---	---	---
11	22.1	20.4	21.0	---	---	---	---	---	---	---	---	---
12	20.2	19.8	20.0	---	---	---	---	---	---	---	---	---
13	20.0	19.8	19.9	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	23.9	19.8	21.8	---	---	---	---	---	---	---	---	---

CUMBERLAND RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR JUNE 1995 TO SEPTEMBER 1995

PUMP NUMBER 4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	31.6	29.4	30.2	---	---	---
2	---	---	---	---	---	---	31.6	29.2	30.1	---	---	---
3	---	---	---	---	---	---	29.6	29.2	29.4	---	---	---
4	---	---	---	---	---	---	29.4	28.8	29.1	---	---	---
5	---	---	---	---	---	---	29.6	28.8	29.3	---	---	---
6	---	---	---	---	---	---	29.2	28.2	28.7	---	---	---
7	---	---	---	---	---	---	28.4	28.0	28.2	---	---	---
8	---	---	---	28.4	27.0	27.6	28.0	27.6	27.8	---	---	---
9	---	---	---	28.6	26.7	27.6	28.6	27.4	28.0	---	---	---
10	---	---	---	29.0	27.0	27.9	29.4	27.4	28.3	---	---	---
11	---	---	---	29.2	27.0	27.8	29.8	28.2	28.8	---	---	---
12	---	---	---	30.0	27.4	28.6	30.8	28.0	29.1	---	---	---
13	---	---	---	30.4	28.2	29.4	31.2	28.6	29.8	---	---	---
14	---	---	---	30.2	28.6	29.2	31.0	29.4	30.2	---	---	---
15	---	---	---	32.0	29.0	30.4	31.4	29.4	30.4	---	---	---
16	---	---	---	31.2	29.6	30.3	30.8	29.4	30.0	---	---	---
17	---	---	---	31.0	29.2	29.8	31.0	29.2	30.1	---	---	---
18	---	---	---	30.0	29.0	29.4	30.8	29.4	29.9	---	---	---
19	---	---	---	30.2	28.6	29.3	30.8	28.8	29.5	---	---	---
20	---	---	---	29.8	28.6	29.2	29.2	29.0	29.1	---	---	---
21	---	---	---	29.2	28.4	28.8	30.6	28.6	29.7	---	---	---
22	---	---	---	29.4	28.4	28.9	29.6	29.2	29.5	---	---	---
23	---	---	---	29.4	28.6	29.0	---	---	---	---	---	---
24	---	---	---	29.4	28.6	29.0	---	---	---	---	---	---
25	---	---	---	30.4	28.6	29.4	---	---	---	---	---	---
26	---	---	---	30.8	28.8	29.7	---	---	---	---	---	---
27	---	---	---	30.4	28.4	29.3	---	---	---	---	---	---
28	---	---	---	29.4	28.8	29.2	---	---	---	---	---	---
29	---	---	---	31.2	28.8	29.4	---	---	---	---	---	---
30	---	---	---	31.2	28.6	29.7	---	---	---	---	---	---
31	---	---	---	31.8	29.0	30.1	---	---	---	---	---	---
MONTH	---	---	---	32.0	26.7	29.1	31.6	27.4	29.3	---	---	---
YEAR	32.0	19.8	27.6									

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 1

		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	1.0	.8	.9	8.0	6.9	7.5	---	---	---	---	---	---
2	1.2	1.1	1.1	8.1	7.5	7.8	---	---	---	---	---	---
3	1.4	1.3	1.4	8.1	7.9	8.0	---	---	---	---	---	---
4	1.7	1.4	1.6	8.0	7.7	7.9	---	---	---	---	---	---
5	1.9	1.7	1.8	8.1	7.9	8.0	---	---	---	---	---	---
6	2.2	2.0	2.1	8.1	7.9	8.0	---	---	---	---	---	---
7	2.5	2.2	2.3	8.1	8.1	8.1	---	---	---	---	---	---
8	3.0	2.4	2.6	---	---	---	---	---	---	---	---	---
9	3.7	3.0	3.4	---	---	---	---	---	---	---	---	---
10	3.6	3.0	3.3	---	---	---	---	---	---	---	---	---
11	6.4	3.8	5.0	---	---	---	---	---	---	---	---	---
12	7.3	4.2	5.9	---	---	---	---	---	---	---	---	---
13	7.5	6.4	7.2	---	---	---	---	---	---	---	---	---
14	7.5	7.3	7.4	---	---	---	---	---	---	---	---	---
15	6.9	6.4	6.6	---	---	---	---	---	---	---	---	---
16	6.7	6.3	6.5	---	---	---	---	---	---	---	---	---
17	6.6	6.0	6.3	---	---	---	---	---	---	---	---	---
18	6.2	5.8	6.0	---	---	---	---	---	---	---	---	---
19	6.0	5.6	5.7	---	---	---	---	---	---	---	---	---
20	5.6	5.2	5.4	---	---	---	---	---	---	---	---	---
21	5.5	5.0	5.2	---	---	---	---	---	---	---	---	---
22	5.9	5.3	5.6	---	---	---	---	---	---	---	---	---
23	6.0	5.7	5.9	---	---	---	---	---	---	---	---	---
24	6.3	6.0	6.2	---	---	---	---	---	---	---	---	---
25	6.5	6.2	6.3	---	---	---	---	---	---	---	---	---
26	7.3	6.4	7.0	---	---	---	---	---	---	---	---	---
27	7.6	7.3	7.4	---	---	---	---	---	---	---	---	---
28	7.4	7.4	7.4	---	---	---	---	---	---	---	---	---
29	7.5	7.2	7.4	---	---	---	---	---	---	---	---	---
30	7.4	7.3	7.4	---	---	---	---	---	---	---	---	---
31	7.6	7.3	7.5	---	---	---	---	---	---	---	---	---
MONTH	7.6	.8	5.0	8.1	6.9	7.9	---	---	---	---	---	---

CUMBERLAND RIVER BASIN

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	9.1	8.5	8.8	7.7	7.5	7.5
2	---	---	---	---	---	---	9.3	8.5	8.8	---	---	---
3	---	---	---	---	---	---	8.5	8.3	8.4	7.8	7.5	7.7
4	---	---	---	---	---	---	8.5	8.2	8.4	8.4	7.7	8.0
5	---	---	---	---	---	---	8.4	8.2	8.3	8.4	8.1	8.3
6	---	---	---	---	---	---	8.3	8.1	8.2	8.6	8.5	8.5
7	---	---	---	---	---	---	8.2	7.8	8.1	8.6	8.4	8.5
8	---	---	---	---	---	---	8.2	8.0	8.1	8.6	8.4	8.5
9	---	---	---	---	---	---	7.8	7.5	7.7	8.7	8.4	8.5
10	---	---	---	---	---	---	8.1	7.7	7.9	8.7	8.2	8.4
11	---	---	---	---	---	---	8.0	7.8	7.9	8.6	8.3	8.5
12	---	---	---	---	---	---	8.0	7.6	7.9	8.8	8.2	8.5
13	---	---	---	---	---	---	8.0	7.8	7.9	---	---	---
14	---	---	---	---	---	---	8.0	7.4	7.7	---	---	---
15	---	---	---	---	---	---	7.9	7.7	7.8	---	---	---
16	---	---	---	---	---	---	7.8	7.3	7.5	---	---	---
17	---	---	---	---	---	---	7.6	7.0	7.2	9.4	9.0	9.2
18	---	---	---	---	---	---	7.2	6.9	7.1	9.3	8.9	9.1
19	---	---	---	---	---	---	7.0	6.8	6.9	9.1	8.9	9.0
20	---	---	---	---	---	---	7.0	6.5	6.8	8.9	8.7	8.8
21	---	---	---	---	---	---	6.8	6.6	6.7	8.8	8.3	8.6
22	---	---	---	---	---	---	6.8	6.5	6.8	8.6	8.3	8.4
23	---	---	---	---	---	---	6.8	6.5	6.7	8.5	8.2	8.3
24	---	---	---	---	---	---	6.5	6.0	6.3	8.6	8.4	8.5
25	---	---	---	---	---	---	6.2	6.0	6.1	8.5	8.2	8.4
26	---	---	---	---	---	---	6.2	5.5	5.9	8.4	8.0	8.2
27	---	---	---	---	---	---	6.3	5.7	5.8	7.7	7.4	7.6
28	---	---	---	---	---	---	6.8	6.1	6.4	7.7	7.3	7.5
29	---	---	---	9.6	9.3	9.5	7.3	6.8	7.1	7.7	7.0	7.3
30	---	---	---	9.8	9.4	9.6	7.5	7.3	7.4	7.2	6.7	6.9
31	---	---	---	9.6	8.9	9.3	---	---	---	6.8	6.4	6.6
MONTH	---	---	---	9.8	8.9	9.5	9.3	5.5	7.4	9.4	6.4	8.2

PUMP NUMBER 1

		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.8	6.0	6.4	1.3	1.2	1.3	1.7	1.6	1.6	.9	.8	.8
2	6.7	5.6	6.1	1.4	1.2	1.3	1.9	1.7	1.8	.9	.9	.9
3	6.7	6.1	6.3	1.4	1.3	1.3	2.0	1.8	1.8	1.0	1.0	1.0
4	6.4	6.1	6.3	1.4	1.2	1.3	2.0	1.9	2.0	1.1	1.1	1.1
5	6.4	5.3	5.9	1.4	1.3	1.4	2.0	2.0	2.0	1.2	1.1	1.2
6	5.2	4.4	4.7	1.5	1.3	1.4	2.2	2.1	2.2	1.3	1.2	1.3
7	4.3	4.0	4.2	1.5	.7	1.1	2.3	2.2	2.2	1.4	1.3	1.3
8	3.9	3.5	3.7	.9	.7	.8	2.4	2.3	2.4	1.4	1.4	1.4
9	3.7	3.3	3.4	.9	.8	.8	2.5	2.4	2.5	1.6	1.4	1.5
10	3.3	3.0	3.1	1.0	.9	.9	2.6	.4	1.7	1.6	1.5	1.6
11	3.0	2.8	3.0	1.1	1.0	1.0	.6	.4	.5	1.6	1.6	1.6
12	2.9	2.7	2.8	1.2	1.1	1.1	.7	.5	.6	1.8	.5	1.0
13	2.8	2.4	2.5	1.3	1.2	1.2	.9	.7	.8	.7	.5	.6
14	2.5	2.2	2.4	1.3	1.2	1.2	1.0	.9	.9	.8	.6	.7
15	2.2	1.8	2.1	1.3	1.3	1.3	1.0	.9	1.0	.9	.7	.8
16	2.4	1.0	1.8	1.5	1.4	1.4	1.1	1.0	1.0	1.0	.8	.9
17	1.0	.6	.8	1.5	1.5	1.5	1.2	1.1	1.1	1.0	.8	.9
18	.9	.7	.8	1.6	1.6	1.6	1.4	1.2	1.3	1.1	.9	1.0
19	.8	.6	.7	1.7	1.6	1.6	1.5	1.3	1.4	1.2	1.1	1.2
20	.8	.6	.7	1.8	1.7	1.7	1.7	1.4	1.6	1.3	1.2	1.3
21	.8	.6	.7	1.9	.5	1.2	1.8	1.6	1.7	1.4	1.3	1.4
22	.8	.7	.8	.7	.6	.6	1.9	1.8	1.8	1.6	1.5	1.5
23	.9	.7	.8	.8	.7	.8	2.1	1.9	2.0	1.7	1.6	1.6
24	.9	.8	.8	.9	.8	.8	2.2	2.0	2.1	1.8	1.6	1.8
25	1.0	.8	.9	1.0	.9	1.0	2.3	.3	1.3	2.0	1.8	1.9
26	1.0	.9	.9	1.1	1.0	1.1	.4	.3	.4	2.1	1.8	2.0
27	1.1	1.0	1.0	1.3	1.2	1.2	.5	.3	.4	2.1	.3	1.4
28	1.1	1.0	1.0	1.4	1.2	1.3	.6	.5	.5	.5	.3	.4
29	1.2	1.1	1.2	1.5	1.3	1.4	.7	.6	.6	.5	.4	.4
30	1.2	1.1	1.2	1.6	1.4	1.5	.8	.6	.7	.6	.5	.6
31	---	---	---	1.6	1.5	1.5	.8	.7	.8	---	---	---
MONTH	6.8	.6	2.6	1.9	.5	1.2	2.6	.3	1.4	2.1	.3	1.2
YEAR	9.8	.3	4.0									

CUMBERLAND RIVER BASIN

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	4.9	3.6	4.2	8.2	7.8	8.0	---	---	---	---	---	---
2	5.1	4.6	4.8	8.5	8.1	8.2	---	---	---	---	---	---
3	5.2	4.3	4.7	8.4	8.1	8.2	---	---	---	---	---	---
4	5.0	4.4	4.7	8.3	7.8	8.0	---	---	---	---	---	---
5	5.9	5.3	5.7	8.3	7.9	8.1	---	---	---	---	---	---
6	6.2	5.7	6.0	8.5	8.2	8.4	---	---	---	---	---	---
7	6.3	5.3	5.8	8.3	8.2	8.3	---	---	---	---	---	---
8	6.3	6.0	6.1	---	---	---	---	---	---	---	---	---
9	6.4	5.8	6.2	---	---	---	---	---	---	---	---	---
10	6.8	6.5	6.6	---	---	---	---	---	---	---	---	---
11	7.3	6.6	6.9	---	---	---	---	---	---	---	---	---
12	7.5	7.3	7.4	---	---	---	---	---	---	---	---	---
13	7.6	7.4	7.5	---	---	---	---	---	---	---	---	---
14	7.7	7.4	7.6	---	---	---	---	---	---	---	---	---
15	7.6	7.2	7.4	---	---	---	---	---	---	---	---	---
16	7.3	7.0	7.1	---	---	---	---	---	---	---	---	---
17	7.0	6.7	6.9	---	---	---	---	---	---	---	---	---
18	6.7	6.2	6.6	---	---	---	---	---	---	---	---	---
19	7.4	5.8	6.7	---	---	---	---	---	---	---	---	---
20	6.6	6.1	6.4	---	---	---	---	---	---	---	---	---
21	7.0	6.3	6.7	---	---	---	---	---	---	---	---	---
22	6.8	6.4	6.6	---	---	---	---	---	---	---	---	---
23	7.1	6.0	6.6	---	---	---	---	---	---	---	---	---
24	6.7	6.5	6.6	---	---	---	---	---	---	---	---	---
25	7.3	7.2	7.3	---	---	---	---	---	---	---	---	---
26	7.4	7.1	7.3	---	---	---	---	---	---	---	---	---
27	7.5	7.3	7.4	---	---	---	---	---	---	---	---	---
28	7.5	7.3	7.4	---	---	---	---	---	---	---	---	---
29	7.5	7.3	7.4	---	---	---	---	---	---	---	---	---
30	7.5	7.3	7.4	---	---	---	---	---	---	---	---	---
31	7.9	7.3	7.6	---	---	---	---	---	---	---	---	---
MONTH	7.9	3.6	6.6	8.5	7.8	8.2	---	---	---	---	---	---

PUMP NUMBER 2

		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	9.7	9.4	9.6	7.6	7.3	7.5
2	---	---	---	---	---	---	10.2	9.1	9.6	---	---	---
3	---	---	---	---	---	---	10.1	9.3	9.8	8.5	7.8	8.1
4	---	---	---	---	---	---	10.0	8.9	9.4	8.3	8.2	8.2
5	---	---	---	---	---	---	9.4	9.0	9.2	8.5	8.2	8.4
6	---	---	---	---	---	---	9.3	8.9	9.0	8.6	8.3	8.5
7	---	---	---	---	---	---	9.2	8.7	8.9	8.6	8.5	8.6
8	---	---	---	---	---	---	9.9	8.5	9.0	8.8	8.6	8.6
9	---	---	---	---	---	---	9.9	8.5	9.0	8.8	8.5	8.7
10	---	---	---	---	---	---	8.8	8.5	8.6	9.2	8.6	8.8
11	---	---	---	---	---	---	8.7	8.4	8.6	9.4	8.8	9.0
12	---	---	---	---	---	---	8.6	8.0	8.4	9.4	8.8	9.0
13	---	---	---	---	---	---	8.8	8.5	8.7	---	---	---
14	---	---	---	---	---	---	8.6	8.4	8.5	---	---	---
15	---	---	---	---	---	---	8.5	8.4	8.4	---	---	---
16	---	---	---	---	---	---	8.7	8.3	8.4	9.6	9.2	9.5
17	---	---	---	---	---	---	8.3	8.1	8.2	9.3	9.1	9.2
18	---	---	---	---	---	---	9.2	7.9	8.2	9.3	9.0	9.2
19	---	---	---	---	---	---	8.8	7.4	8.0	9.3	9.0	9.1
20	---	---	---	---	---	---	8.3	7.6	7.8	9.2	9.0	9.1
21	---	---	---	---	---	---	8.1	7.5	7.8	9.1	8.9	9.0
22	---	---	---	---	---	---	8.1	7.5	7.7	8.8	8.6	8.7
23	---	---	---	---	---	---	7.6	7.4	7.5	8.9	8.7	8.8
24	---	---	---	---	---	---	7.5	7.1	7.2	8.9	8.8	8.8
25	---	---	---	---	---	---	7.2	7.1	7.1	9.0	8.7	8.8
26	---	---	---	---	---	---	7.2	6.5	6.9	8.7	8.6	8.6
27	---	---	---	---	---	---	6.8	6.0	6.5	8.4	8.1	8.3
28	---	---	---	---	---	---	7.1	6.5	6.8	8.5	8.0	8.2
29	---	---	---	10.1	9.8	10.0	7.3	7.0	7.2	8.2	8.0	8.1
30	---	---	---	10.0	9.7	9.8	7.5	7.2	7.4	8.1	7.8	7.9
31	---	---	---	9.7	9.5	9.6	---	---	---	7.6	7.3	7.4
MONTH	---	---	---	10.1	9.5	9.8	10.2	6.0	8.2	9.6	7.3	8.6

CUMBERLAND RIVER BASIN

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.6	7.3	7.5	3.3	2.4	2.8	1.9	1.7	1.8	1.0	.8	.9
2	7.3	7.1	7.2	3.2	2.5	2.8	2.1	1.8	1.9	1.1	.9	1.0
3	7.7	7.1	7.4	3.2	2.2	2.6	2.0	1.9	1.9	1.0	1.0	1.0
4	7.5	7.0	7.4	3.1	2.1	2.6	2.2	2.1	2.1	1.1	1.1	1.1
5	7.4	6.7	7.1	3.0	1.8	2.5	2.3	2.1	2.2	1.2	1.1	1.2
6	6.5	5.6	6.1	3.0	1.9	2.4	2.4	2.2	2.3	1.3	1.2	1.3
7	7.0	5.8	6.3	3.0	1.1	2.0	2.4	2.3	2.4	1.4	1.3	1.4
8	6.3	4.5	5.6	1.7	1.1	1.4	2.5	2.4	2.4	1.5	1.4	1.4
9	6.0	4.7	5.7	1.7	1.0	1.4	2.6	2.5	2.5	1.6	1.5	1.5
10	6.2	5.5	5.8	1.6	1.2	1.4	2.6	.4	1.5	1.7	1.6	1.6
11	6.3	3.9	5.6	1.8	1.2	1.4	.6	.5	.5	1.8	1.7	1.7
12	6.0	5.1	5.7	1.6	1.1	1.4	.7	.6	.6	1.8	.5	1.0
13	5.8	5.3	5.5	1.5	1.5	1.5	.9	.7	.8	.7	.5	.6
14	6.0	4.7	5.4	1.6	1.5	1.6	1.0	.9	.9	.8	.6	.7
15	5.9	4.8	5.4	1.6	1.5	1.6	1.1	1.0	1.0	.9	.7	.8
16	5.9	4.6	5.1	1.7	1.5	1.6	1.2	1.0	1.1	1.0	.8	.9
17	5.1	4.0	4.7	1.7	1.6	1.7	1.3	1.1	1.2	1.1	.9	1.0
18	5.0	4.3	4.6	1.9	1.7	1.8	1.5	1.3	1.4	1.2	1.0	1.2
19	4.9	4.3	4.7	1.9	1.8	1.8	1.5	1.4	1.5	1.3	1.1	1.2
20	5.2	4.1	4.5	2.0	1.8	1.9	1.7	1.5	1.6	1.6	1.2	1.4
21	4.9	3.6	4.2	2.1	.6	1.4	1.8	1.7	1.8	1.7	1.4	1.5
22	5.0	3.1	4.3	.9	.7	.8	1.9	1.8	1.9	1.6	1.5	1.5
23	4.8	3.1	3.9	.9	.8	.8	2.1	2.0	2.0	2.4	1.6	1.8
24	4.6	3.2	4.1	1.0	.8	.9	2.2	2.1	2.2	2.4	1.8	1.9
25	4.1	3.2	3.8	1.2	1.0	1.1	2.3	.2	1.2	2.4	1.9	2.0
26	4.1	3.3	3.7	1.2	1.1	1.1	.4	.3	.4	3.0	2.3	2.6
27	3.8	2.9	3.3	1.3	1.2	1.2	.5	.3	.5	2.5	.4	1.6
28	4.1	2.3	3.2	1.5	1.3	1.4	.6	.4	.5	1.7	.5	.9
29	3.7	2.4	3.1	1.5	1.4	1.4	.7	.5	.6	3.8	.5	1.9
30	3.4	2.4	3.1	1.6	1.5	1.6	.8	.6	.7	2.7	.7	2.1
31	---	---	---	1.7	1.7	1.7	.8	.7	.8	---	---	---
MONTH	7.7	2.3	5.1	3.3	.6	1.7	2.6	.2	1.4	3.8	.4	1.4
YEAR	10.2	.2	4.8									

PUMP NUMBER 3

		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.1	5.3	5.8	---	---	---	---	---	---	---	---	---
2	5.3	5.1	5.2	---	---	---	---	---	---	---	---	---
3	5.8	5.4	5.6	---	---	---	---	---	---	---	---	---
4	6.1	5.7	5.8	---	---	---	---	---	---	---	---	---
5	6.2	5.8	6.0	---	---	---	---	---	---	---	---	---
6	6.2	6.1	6.1	---	---	---	---	---	---	---	---	---
7	6.5	6.2	6.4	---	---	---	---	---	---	---	---	---
8	6.8	6.4	6.6	---	---	---	---	---	---	---	---	---
9	6.8	6.5	6.7	---	---	---	---	---	---	---	---	---
10	6.9	6.7	6.8	---	---	---	---	---	---	---	---	---
11	7.7	6.6	7.1	---	---	---	---	---	---	---	---	---
12	7.6	7.2	7.4	---	---	---	---	---	---	---	---	---
13	7.5	7.3	7.4	---	---	---	---	---	---	---	---	---
14	7.5	7.4	7.5	---	---	---	---	---	---	---	---	---
15	7.4	7.1	7.3	---	---	---	---	---	---	---	---	---
16	8.0	7.2	7.5	---	---	---	---	---	---	---	---	---
17	7.4	6.9	7.2	---	---	---	---	---	---	---	---	---
18	7.4	6.8	7.2	---	---	---	---	---	---	---	---	---
19	7.4	6.8	7.2	---	---	---	---	---	---	---	---	---
20	7.2	7.0	7.2	---	---	---	---	---	---	---	---	---
21	7.2	6.8	7.0	---	---	---	---	---	---	---	---	---
22	7.1	6.9	7.0	---	---	---	---	---	---	---	---	---
23	7.4	7.0	7.2	---	---	---	---	---	---	---	---	---
24	7.4	7.0	7.2	---	---	---	---	---	---	---	---	---
25	7.5	---	---	---	---	---	---	---	---	---	---	---
26	7.5	---	---	---	---	---	---	---	---	---	---	---
27	7.6	---	---	---	---	---	---	---	---	---	---	---
28	7.5	---	---	---	---	---	---	---	---	---	---	---
29	7.5	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	8.0	5.1	6.8	---	---	---	---	---	---	---	---	---

CUMBERLAND RIVER BASIN

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

PUMP NUMBER 3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	10.1	9.9	10.0	9.1	7.8	8.6
2	---	---	---	---	---	---	10.3	9.7	10.0	---	---	---
3	---	---	---	---	---	---	10.4	10.0	10.1	9.1	8.4	8.6
4	---	---	---	---	---	---	10.1	10.0	10.0	9.2	8.1	8.8
5	---	---	---	---	---	---	10.0	9.8	9.9	8.9	8.1	8.4
6	---	---	---	---	---	---	10.0	9.8	9.9	9.8	8.3	9.2
7	---	---	---	---	---	---	10.0	9.7	9.9	9.8	8.9	9.3
8	---	---	---	---	---	---	10.0	9.6	9.9	10.1	8.8	9.5
9	---	---	---	---	---	---	9.9	9.7	9.8	10.2	9.5	9.9
10	---	---	---	---	---	---	9.7	9.6	9.6	10.0	9.0	9.3
11	---	---	---	---	---	---	9.6	9.0	9.4	10.1	9.5	9.8
12	---	---	---	---	---	---	9.5	9.2	9.4	10.2	9.5	9.9
13	---	---	---	---	---	---	9.7	9.5	9.6	---	---	---
14	---	---	---	---	---	---	9.7	9.5	9.6	---	---	---
15	---	---	---	---	---	---	9.7	9.5	9.6	---	---	---
16	---	---	---	---	---	---	9.5	9.4	9.4	9.4	9.1	9.2
17	---	---	---	---	---	---	9.5	9.1	9.4	9.4	8.9	9.2
18	---	---	---	---	---	---	9.4	9.0	9.2	9.1	8.9	9.0
19	---	---	---	---	---	---	9.1	9.0	9.0	10.1	9.0	9.3
20	---	---	---	---	---	---	9.0	8.8	9.0	9.2	9.0	9.1
21	---	---	---	---	---	---	8.9	8.7	8.8	9.0	8.8	8.9
22	---	---	---	---	---	---	8.8	8.5	8.6	8.9	8.8	8.8
23	---	---	---	---	---	---	8.9	8.6	8.8	9.5	8.6	9.1
24	---	---	---	---	---	---	8.6	8.3	8.5	10.6	8.6	9.4
25	---	---	---	---	---	---	8.6	7.7	8.4	10.6	8.8	9.7
26	---	---	---	---	---	---	8.6	7.1	8.2	10.2	9.7	10.0
27	---	---	---	---	---	---	8.7	7.4	8.2	10.5	8.6	9.8
28	---	---	---	---	---	---	9.0	7.6	8.3	10.2	9.4	9.8
29	---	---	---	10.3	10.1	10.2	9.0	7.7	8.5	10.4	8.9	9.8
30	---	---	---	10.1	10.0	10.0	9.2	7.9	8.6	10.2	9.1	9.8
31	---	---	---	10.2	9.7	10.0	---	---	---	9.7	8.5	9.4
MONTH	---	---	---	10.3	9.7	10.1	10.4	7.1	9.3	10.6	7.8	9.3

PUMP NUMBER 3

		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.7	9.0	9.4	9.8	9.5	9.7	7.5	6.9	7.2	6.9	6.4	6.6
2	9.7	8.0	9.0	9.8	9.5	9.6	7.4	7.1	7.3	6.5	6.0	6.3
3	9.6	8.4	9.2	9.9	8.7	9.5	7.3	7.1	7.2	6.3	6.0	6.2
4	9.5	9.1	9.3	9.8	8.7	9.2	7.2	7.1	7.2	6.2	5.8	6.0
5	9.4	8.8	9.2	8.9	7.8	8.5	7.1	6.9	7.0	6.3	6.1	6.2
6	9.5	8.9	9.2	8.6	8.2	8.3	7.0	6.6	6.8	6.2	5.8	6.0
7	9.4	8.3	9.0	8.6	7.9	8.2	6.6	6.4	6.4	6.1	5.8	6.0
8	9.3	8.8	9.0	8.3	7.8	8.0	6.4	6.2	6.3	6.2	5.6	6.0
9	9.5	8.8	9.1	8.1	7.7	8.0	6.4	6.2	6.3	6.4	6.1	6.2
10	9.1	8.6	9.0	8.3	7.3	7.8	7.1	6.2	6.5	6.3	5.8	6.0
11	9.1	8.5	8.9	8.1	7.6	7.8	7.0	6.0	6.6	6.4	5.7	6.0
12	9.3	8.3	8.8	8.0	7.4	7.6	7.3	6.2	6.7	6.4	6.1	6.2
13	9.2	8.7	8.9	7.7	7.3	7.5	7.6	6.8	7.1	6.3	5.5	5.9
14	8.5	8.0	8.3	7.4	7.0	7.2	7.4	7.0	7.2	6.1	5.0	5.6
15	8.3	8.0	8.2	7.2	6.5	6.9	7.1	6.2	6.8	6.0	6.0	6.0
16	8.6	8.0	8.3	7.2	6.8	7.0	7.5	6.4	7.2	6.0	5.6	5.9
17	8.4	8.0	8.2	7.0	6.2	6.6	7.2	6.4	6.8	5.4	5.2	5.3
18	8.6	7.9	8.3	7.0	6.3	6.7	7.3	6.7	7.0	5.5	5.0	5.2
19	8.6	8.1	8.3	7.2	6.5	6.9	7.2	6.9	7.0	5.2	4.7	4.9
20	8.9	7.7	8.2	7.6	6.6	7.0	7.0	6.8	6.9	5.6	5.0	5.2
21	8.7	8.3	8.6	7.2	6.0	6.8	6.9	6.6	6.8	5.3	5.1	5.2
22	9.1	8.2	8.7	7.3	6.5	6.9	7.0	6.4	6.7	5.1	4.8	5.0
23	9.6	8.4	8.9	7.1	6.6	6.9	6.9	6.5	6.7	5.0	4.5	4.8
24	9.7	9.0	9.4	7.3	6.2	6.8	6.9	6.5	6.8	5.0	4.7	4.8
25	9.6	9.1	9.4	7.2	6.2	6.8	6.9	6.6	6.7	5.4	4.8	5.1
26	9.5	9.1	9.3	7.1	6.7	6.9	6.6	6.5	6.5	5.1	4.9	5.0
27	9.7	9.0	9.4	7.6	6.5	7.2	6.6	6.4	6.5	5.2	4.9	5.0
28	9.7	9.0	9.5	7.5	6.8	7.2	6.7	6.2	6.5	5.2	5.0	5.1
29	10.0	9.3	9.7	7.2	6.2	6.9	6.8	6.4	6.6	6.2	4.9	5.3
30	9.8	9.0	9.4	7.5	7.2	7.3	6.9	6.6	6.8	5.8	4.9	5.3
31	---	---	---	7.4	6.8	7.2	7.1	6.6	6.8	---	---	---
MONTH	10.0	7.7	8.9	9.9	6.0	7.6	7.6	6.0	6.8	6.9	4.5	5.6
YEAR	10.6	4.5	7.8									

CUMBERLAND RIVER BASIN

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO JANUARY 1995

PUMP NUMBER 4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.5	6.2	6.4	---	---	---	---	---	---	---	---	---
2	6.7	6.1	6.4	---	---	---	---	---	---	---	---	---
3	6.1	5.7	5.9	---	---	---	---	---	---	---	---	---
4	6.3	5.8	6.0	---	---	---	---	---	---	---	---	---
5	6.6	5.9	6.2	---	---	---	---	---	---	---	---	---
6	6.6	6.2	6.4	---	---	---	---	---	---	---	---	---
7	6.7	6.4	6.6	---	---	---	---	---	---	---	---	---
8	7.0	6.5	6.8	---	---	---	---	---	---	---	---	---
9	6.9	6.7	6.8	---	---	---	---	---	---	---	---	---
10	7.2	6.6	6.8	---	---	---	---	---	---	---	---	---
11	7.5	6.6	7.1	---	---	---	---	---	---	---	---	---
12	7.6	4.2	6.9	---	---	---	---	---	---	---	---	---
13	7.3	7.3	7.3	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	7.6	4.2	6.6	---	---	---	---	---	---	---	---	---

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

PUMP NUMBER 4

		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	7.6	7.3	7.4	---	---	---
2	---	---	---	---	---	---	7.5	7.2	7.4	---	---	---
3	---	---	---	---	---	---	7.6	7.3	7.4	---	---	---
4	---	---	---	---	---	---	7.5	7.3	7.4	---	---	---
5	---	---	---	---	---	---	7.3	7.2	7.2	---	---	---
6	---	---	---	---	---	---	7.3	6.9	7.1	---	---	---
7	---	---	---	---	---	---	6.8	6.6	6.7	---	---	---
8	---	---	---	8.6	8.0	8.4	6.8	6.5	6.6	---	---	---
9	---	---	---	8.4	8.2	8.3	6.6	6.4	6.5	---	---	---
10	---	---	---	8.6	8.1	8.3	7.3	6.5	6.9	---	---	---
11	---	---	---	8.3	7.9	8.2	7.4	7.2	7.3	---	---	---
12	---	---	---	8.9	8.0	8.2	8.2	7.3	7.5	---	---	---
13	---	---	---	8.1	7.8	8.0	7.7	7.5	7.6	---	---	---
14	---	---	---	8.5	7.6	7.9	7.7	7.5	7.6	---	---	---
15	---	---	---	7.6	7.4	7.5	7.5	7.4	7.4	---	---	---
16	---	---	---	7.4	7.3	7.3	8.2	7.3	7.6	---	---	---
17	---	---	---	7.5	7.3	7.4	7.5	7.2	7.4	---	---	---
18	---	---	---	7.4	7.1	7.2	7.4	7.1	7.2	---	---	---
19	---	---	---	7.5	7.1	7.2	7.7	7.2	7.3	---	---	---
20	---	---	---	7.4	7.0	7.2	7.4	7.2	7.3	---	---	---
21	---	---	---	7.4	7.1	7.2	7.2	7.0	7.0	---	---	---
22	---	---	---	7.4	7.1	7.2	7.0	6.8	6.9	---	---	---
23	---	---	---	7.4	6.9	7.2	---	---	---	---	---	---
24	---	---	---	7.4	7.0	7.1	---	---	---	---	---	---
25	---	---	---	7.4	7.2	7.3	---	---	---	---	---	---
26	---	---	---	7.4	7.2	7.3	---	---	---	---	---	---
27	---	---	---	7.9	7.3	7.5	---	---	---	---	---	---
28	---	---	---	7.7	7.4	7.6	---	---	---	---	---	---
29	---	---	---	8.0	7.3	7.5	---	---	---	---	---	---
30	---	---	---	7.7	7.4	7.5	---	---	---	---	---	---
31	---	---	---	8.2	7.3	7.5	---	---	---	---	---	---
MONTH	---	---	---	8.9	6.9	7.6	8.2	6.4	7.2	---	---	---
YEAR	8.9	4.2	7.2									

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 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1968-71, and annual maximums, water years 1968-70. April 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,259.00 ft above 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.--No estimated daily discharges. Water-discharge records good. Flow regulated by Martins Fork Dam (station 03400798) beginning January 1979.

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	62	23	170	26	130	245	7.8	73	53	13	12	12
2	62	24	105	26	132	284	7.8	120	72	13	12	12
3	45	24	91	26	152	283	7.8	151	107	13	12	12
4	26	40	91	19	167	277	8.7	151	107	13	13	12
5	26	61	91	8.3	169	274	9.6	130	64	13	13	12
6	26	61	90	11	188	271	10	117	11	13	13	12
7	27	60	89	13	220	271	10	117	11	13	14	12
8	27	59	89	13	217	280	10	116	12	13	13	12
9	27	58	77	223	212	288	11	116	14	13	13	12
10	28	39	63	337	139	318	11	244	17	12	13	12
11	28	23	64	329	78	335	11	348	17	12	13	12
12	28	23	145	326	78	332	11	373	27	12	13	12
13	28	23	200	289	77	330	12	395	34	12	13	13
14	49	41	197	233	77	325	12	413	25	12	13	13
15	60	60	194	305	117	320	12	519	24	12	13	13
16	60	60	129	387	307	219	12	584	37	12	13	13
17	41	50	82	445	410	153	12	572	37	12	13	13
18	22	32	82	479	412	153	12	560	37	12	14	13
19	22	32	81	468	407	151	13	564	36	12	13	13
20	23	32	81	458	401	133	15	558	36	12	13	13
21	48	32	60	447	393	136	17	547	32	12	13	13
22	68	30	29	435	382	170	16	458	26	12	12	13
23	69	37	26	421	274	171	17	325	20	12	12	13
24	67	46	26	324	192	171	19	223	13	12	12	12
25	66	46	26	219	188	169	19	189	13	12	12	12
26	66	46	26	183	187	167	19	121	13	12	12	13
27	56	45	26	140	183	119	19	55	13	12	12	12
28	31	151	26	84	188	80	52	54	13	11	12	13
29	21	246	26	84	---	68	75	54	13	11	12	13
30	21	248	26	100	---	59	73	54	13	11	12	13
31	21	---	26	130	---	31	---	53	---	12	12	---
TOTAL	1251	1752	2534	6988.3	6077	6583	541.7	8354	947	378	392	375
MEAN	40.4	58.4	81.7	225	217	212	18.1	269	31.6	12.2	12.6	12.5
MAX	69	248	200	479	412	335	75	584	107	13	14	13
MIN	21	23	26	8.3	77	31	7.8	53	11	11	12	12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1995, BY WATER YEAR (WY)

MEAN	56.2	104	156	177	215	188	120	130	65.4	26.0	25.2	28.9
MAX	181	217	452	357	481	360	383	322	267	75.3	61.6	117
(WY)	1990	1987	1992	1982	1994	1994	1994	1983	1989	1990	1994	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1980 - 1995	
ANNUAL TOTAL	57246.5		36173.0			
ANNUAL MEAN	157		99.1		107	
HIGHEST ANNUAL MEAN					173	1994
LOWEST ANNUAL MEAN					58.0	1988
HIGHEST DAILY MEAN	1280	Feb 12	584	May 16	1310	Dec 4 1991
LOWEST DAILY MEAN	5.5	Jun 1	7.8	Apr 1	5.5	Jun 1 1994
ANNUAL SEVEN-DAY MINIMUM	9.8	Jul 7	8.8	Apr 1	6.7	Jul 16 1980
INSTANTANEOUS PEAK FLOW			597	May 18	9000	Apr 4 1977
INSTANTANEOUS PEAK STAGE			11.43	May 18	24.24	Apr 4 1977
INSTANTANEOUS LOW FLOW					.10	Oct 30 1978
10 PERCENT EXCEEDS	463		319		294	
50 PERCENT EXCEEDS	60		32		48	
90 PERCENT EXCEEDS	15		12		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, 6.2 units, Jan. 12, 1980, May 17, 1984, July 6, 1989.

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, 195 microsiemens, Nov. 10; minimum, 84 microsiemens, Jan. 19-20.

pH: Maximum, 7.3 units, Oct. 12-13; minimum, 6.5 units, Apr. 27-28.

WATER TEMPERATURE: Maximum, 28.8°C, Aug. 24; minimum, 3.3°C, Feb. 8.

DISSOLVED OXYGEN: Maximum, 12.6 mg/L, Feb. 25; minimum, 5.8 mg/L, Sept. 24-25.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	176	167	171	165	154	159	154	138	149	138	134	135
2	176	172	175	161	151	157	146	139	143	134	130	134
3	177	173	175	164	153	160	139	139	139	136	130	133
4	177	173	174	169	160	163	133	124	127	136	132	136
5	174	173	173	169	159	165	137	133	134	136	132	135
6	178	170	174	172	167	170	137	137	137	165	136	142
7	179	174	176	177	165	172	141	133	137	149	137	143
8	182	175	177	190	178	184	141	137	140	137	133	135
9	180	176	177	193	187	191	145	137	141	133	114	124
10	180	172	175	195	191	194	145	137	141	133	114	125
11	177	173	174	193	185	189	145	137	144	142	114	133
12	178	173	174	187	173	178	145	137	139	146	130	143
13	178	174	176	178	171	175	141	126	139	162	115	132
14	179	174	177	171	159	163	126	114	119	185	138	169
15	179	175	177	167	161	163	129	122	127	162	123	136
16	180	175	177	165	160	162	137	129	133	146	116	132
17	180	176	177	164	161	163	133	129	132	143	128	133
18	181	176	178	169	160	165	133	126	130	147	131	139
19	178	177	177	168	162	165	130	126	129	143	84	121
20	182	178	179	170	164	167	134	130	134	96	84	93
21	179	178	178	179	166	174	138	134	135	101	96	98
22	183	175	178	180	176	178	138	134	136	109	97	104
23	180	176	179	180	173	176	138	134	135	113	109	112
24	176	172	176	181	173	176	134	130	134	113	109	112
25	191	177	185	182	174	179	134	130	134	113	109	111
26	194	186	190	182	179	179	134	130	134	114	110	113
27	186	154	171	180	175	179	134	130	134	114	110	110
28	160	150	154	180	176	179	134	134	134	114	110	113
29	162	152	156	181	161	173	134	134	134	118	114	115
30	161	151	156	161	153	155	138	134	137	126	114	120
31	164	154	160	---	---	---	138	134	135	118	111	114
MONTH	194	150	174	195	151	172	154	114	135	185	84	126

CUMBERLAND RIVER BASIN

03400800 MARTINS FORK NEAR SMITH, KY--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	115	111	113	---	---	---	123	111	116	125	117	121
2	115	115	115	---	---	---	120	107	114	136	117	125
3	119	115	116	---	---	---	125	108	119	136	121	125
4	119	111	112	---	---	---	126	119	122	128	105	116
5	119	111	114	---	---	---	129	119	123	128	106	117
6	116	112	115	---	---	---	133	122	126	129	106	118
7	120	116	117	---	---	---	129	122	124	126	118	122
8	120	112	116	---	---	---	133	122	127	122	114	119
9	---	---	---	---	---	---	133	122	126	126	118	120
10	133	128	131	---	---	---	138	125	131	137	114	127
11	144	133	141	---	---	---	134	126	129	137	122	131
12	144	140	143	---	---	---	130	123	128	126	114	117
13	148	140	146	---	---	---	138	126	130	114	102	108
14	155	147	151	---	---	---	138	123	130	106	94	100
15	154	137	148	---	---	---	130	123	127	102	94	97
16	157	132	142	---	---	---	134	123	127	110	94	104
17	132	108	118	---	---	---	130	123	128	116	108	111
18	145	103	118	---	---	---	142	126	131	120	112	115
19	145	101	132	---	---	---	138	126	131	124	108	114
20	144	104	125	---	---	---	135	124	131	121	112	116
21	134	100	118	116	112	115	139	127	132	117	109	111
22	110	102	105	116	108	113	135	127	131	113	105	109
23	105	101	104	110	106	109	131	120	128	113	105	111
24	107	103	104	114	106	110	131	125	127	113	105	110
25	110	106	108	116	111	114	136	125	129	117	105	112
26	116	109	111	116	112	113	140	125	131	113	106	111
27	113	96	106	117	113	114	136	125	128	110	106	107
28	---	---	---	115	111	114	125	117	122	110	106	106
29	---	---	---	116	111	112	125	121	123	110	106	108
30	---	---	---	117	112	114	128	117	120	110	106	109
31	---	---	---	122	113	116	---	---	---	110	106	107
MONTH	157	96	122	122	106	113	142	107	126	137	94	114
		JUNE			JULY			AUGUST			SEPTEMBER	
1	110	106	110	146	138	140	155	143	146	150	145	146
2	114	106	110	146	138	140	155	143	148	150	142	146
3	119	110	114	146	138	141	151	143	147	151	143	146
4	119	115	115	146	138	141	151	143	147	152	143	146
5	123	115	119	150	138	142	151	143	147	152	144	147
6	130	119	123	146	138	141	147	143	147	153	145	148
7	123	119	120	146	138	143	147	143	144	154	145	149
8	126	119	123	139	131	135	147	143	144	154	146	149
9	126	119	121	143	131	135	147	143	144	155	147	150
10	126	119	121	143	131	135	149	143	145	156	147	150
11	126	119	120	143	135	137	153	145	146	153	148	150
12	124	119	120	143	131	137	152	144	146	157	149	151
13	124	120	121	143	135	138	152	144	147	154	149	151
14	127	120	123	143	131	138	152	144	146	158	150	153
15	127	120	121	143	135	139	151	143	146	159	151	154
16	124	119	122	143	135	139	151	143	147	152	151	152
17	123	119	121	143	139	140	151	143	148	157	152	154
18	123	119	121	143	135	140	150	142	146	157	153	155
19	123	119	122	147	135	140	150	146	147	162	153	156
20	126	119	121	147	139	142	150	146	147	155	154	154
21	134	119	127	146	138	141	153	145	147	155	151	155
22	134	134	134	150	138	143	153	145	147	156	151	155
23	142	134	137	146	138	143	153	145	147	156	152	153
24	146	134	139	150	142	143	152	144	146	157	153	154
25	146	134	140	150	142	144	149	141	145	158	153	155
26	146	138	141	150	142	144	146	141	143	154	150	153
27	146	138	141	150	138	143	143	142	142	157	145	152
28	150	138	143	146	142	144	151	143	145	158	145	149
29	150	138	143	150	142	145	152	139	145	158	146	150
30	146	138	140	150	142	145	152	144	146	159	147	151
31	---	---	---	155	142	146	153	145	147	---	---	---
MONTH	150	106	126	155	131	141	155	139	146	162	142	151
YEAR	195	84	139									

CUMBERLAND RIVER BASIN

03400800 MARTINS FORK NEAR SMITH, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.9	6.9	7.2	7.0	6.9	6.9	7.1	7.0	6.7	6.7	6.7	6.7
2	7.0	6.9	7.0	7.0	6.9	6.9	7.1	7.1	6.7	6.7	6.7	6.7
3	7.0	6.9	7.1	7.0	6.9	6.9	7.1	7.0	6.7	6.7	6.7	6.6
4	7.1	6.9	7.0	6.9	6.8	6.7	7.0	7.0	6.7	6.7	6.7	6.6
5	7.1	7.0	7.0	6.8	6.8	6.7	7.1	7.0	6.7	6.7	6.7	6.7
6	7.1	7.0	6.9	6.8	6.8	6.7	7.0	7.0	6.7	6.7	6.7	6.6
7	7.2	7.0	7.1	6.8	6.9	6.7	7.0	7.0	6.8	6.7	6.7	6.6
8	7.2	7.2	7.2	7.1	6.8	6.7	7.0	7.0	6.8	6.8	6.7	6.6
9	7.2	7.2	7.2	7.1	6.9	6.7	7.0	6.9	---	---	6.7	6.7
10	7.2	7.2	7.2	7.2	6.9	6.8	6.9	6.9	6.8	6.8	6.7	6.6
11	7.2	7.2	7.2	7.1	6.8	6.7	6.9	6.9	6.8	6.8	6.7	6.7
12	7.3	7.2	7.2	7.1	6.9	6.7	6.9	6.9	6.8	6.8	6.7	6.7
13	7.3	7.2	7.2	7.1	6.9	6.9	6.9	6.9	6.8	6.8	6.7	6.7
14	7.2	7.2	7.1	7.1	6.9	6.8	6.9	6.9	6.8	6.8	6.7	6.7
15	7.2	7.2	7.1	7.0	6.9	6.8	6.9	6.8	6.8	6.8	6.7	6.7
16	7.2	7.1	7.1	7.0	6.9	6.8	6.9	6.8	6.8	6.7	6.7	6.7
17	7.2	7.1	7.1	7.0	6.9	6.8	6.8	6.8	6.7	6.6	6.7	6.7
18	7.1	7.0	7.0	6.9	6.9	6.8	6.8	6.7	6.7	6.6	6.7	6.7
19	7.1	7.0	7.0	6.9	6.9	6.9	6.8	6.7	6.7	6.6	6.7	6.6
20	7.1	7.0	7.0	6.9	6.9	6.8	6.7	6.7	6.7	6.6	6.8	6.6
21	7.1	7.1	7.1	6.9	6.9	6.9	6.7	6.7	6.7	6.6	6.7	6.6
22	7.0	7.0	7.1	7.1	7.0	6.9	6.8	6.7	6.7	6.6	6.7	6.6
23	7.0	6.9	7.1	7.1	7.0	6.9	6.8	6.6	6.7	6.6	6.7	6.6
24	7.1	7.0	7.1	7.1	6.9	6.9	6.7	6.6	6.7	6.7	6.7	6.6
25	7.2	7.1	7.1	7.1	6.9	6.9	6.7	6.6	6.7	6.7	6.7	6.6
26	7.2	7.1	7.1	7.1	7.0	6.9	6.7	6.6	6.7	6.7	6.7	6.6
27	7.2	7.2	7.1	7.1	7.1	6.9	6.7	6.6	6.7	6.7	6.7	6.6
28	7.2	7.1	7.1	7.0	7.1	7.0	6.7	6.7	6.7	6.7	6.7	6.6
29	7.2	7.1	7.1	6.9	7.1	7.1	6.7	6.7	---	---	6.7	6.6
30	7.1	7.1	6.9	6.9	7.1	7.0	6.7	6.7	---	---	6.7	6.6
31	7.1	7.1	---	---	7.1	7.0	6.7	6.7	---	---	6.7	6.6
MONTH	7.3	6.9	7.2	6.8	7.1	6.7	7.1	6.6	6.8	6.6	6.8	6.6
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.7	6.6	6.7	6.6	6.7	6.6	6.9	6.8	6.7	6.7	6.7	6.7
2	6.7	6.6	6.7	6.7	6.7	6.6	6.9	6.8	6.7	6.7	6.7	6.7
3	6.7	6.6	6.7	6.6	6.6	6.6	6.9	6.7	6.7	6.7	6.8	6.7
4	6.7	6.6	6.7	6.6	6.6	6.6	6.8	6.7	6.7	6.7	6.8	6.7
5	6.7	6.6	6.7	6.6	6.7	6.6	6.8	6.7	6.7	6.6	6.8	6.7
6	6.7	6.6	6.7	6.6	6.8	6.7	6.8	6.7	6.7	6.6	6.7	6.7
7	6.6	6.6	6.7	6.6	6.9	6.6	6.8	6.7	6.7	6.6	6.7	6.7
8	6.7	6.6	6.6	6.6	6.7	6.6	6.8	6.8	6.7	6.6	6.7	6.7
9	6.7	6.6	6.6	6.6	6.7	6.6	6.8	6.7	6.6	6.6	6.7	6.6
10	6.6	6.6	6.8	6.6	6.6	6.6	6.8	6.7	6.8	6.6	6.7	6.6
11	6.7	6.6	6.8	6.6	6.6	6.6	6.8	6.7	6.8	6.8	6.7	6.6
12	6.6	6.6	6.7	6.6	6.7	6.6	6.8	6.7	6.8	6.7	6.8	6.7
13	6.6	6.6	6.7	6.6	6.7	6.6	6.8	6.7	6.8	6.7	6.9	6.8
14	6.6	6.6	6.6	6.6	6.7	6.6	6.8	6.7	6.8	6.7	6.9	6.8
15	6.7	6.6	6.7	6.6	6.7	6.6	6.8	6.7	6.8	6.7	6.9	6.8
16	6.7	6.7	6.9	6.6	6.8	6.6	6.8	6.7	6.7	6.7	6.8	6.8
17	6.7	6.6	6.9	6.8	6.8	6.7	6.8	6.7	6.7	6.7	6.8	6.8
18	6.7	6.6	6.8	6.8	6.8	6.7	6.7	6.7	6.8	6.6	6.9	6.8
19	6.7	6.6	6.9	6.8	6.8	6.7	6.7	6.7	6.7	6.6	6.8	6.8
20	6.7	6.6	6.8	6.7	6.8	6.7	6.8	6.7	6.7	6.6	6.9	6.8
21	6.7	6.6	6.8	6.7	6.8	6.7	6.8	6.7	6.7	6.7	6.8	6.8
22	6.7	6.6	6.7	6.7	6.8	6.7	6.9	6.8	6.7	6.7	6.8	6.8
23	6.8	6.6	6.8	6.7	6.9	6.7	6.9	6.8	6.7	6.7	6.8	6.8
24	6.7	6.6	6.7	6.7	6.9	6.8	6.9	6.8	6.7	6.6	6.8	6.8
25	6.6	6.6	6.8	6.7	6.9	6.8	6.9	6.8	6.8	6.6	6.8	6.8
26	6.6	6.6	6.8	6.7	6.9	6.8	6.8	6.8	6.8	6.7	6.8	6.8
27	6.7	6.5	6.8	6.7	6.9	6.8	6.8	6.8	6.8	6.7	6.9	6.7
28	6.6	6.5	6.7	6.7	6.9	6.9	6.8	6.7	6.8	6.7	6.9	6.9
29	6.7	6.6	6.7	6.7	6.9	6.8	6.8	6.7	6.7	6.7	6.9	6.9
30	6.7	6.6	6.7	6.7	6.9	6.8	6.8	6.7	6.7	6.7	6.9	6.9
31	---	---	6.7	6.6	---	---	6.8	6.7	6.7	6.7	---	---
MONTH	**6.8**	**6.5**	**6.9**	**6.6**	**6.9**	**6.6**	**6.9**	**6.7**	**6.8**	**6.6**	**6.9**	**6.6**
YEAR	7.3	6.5										

CUMBERLAND RIVER BASIN

03400800 MARTINS FORK NEAR SMITH, KY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22.5	21.5	22.0	16.3	15.1	15.8	10.1	9.3	9.8	7.3	6.9	7.1
2	22.1	21.7	21.9	16.6	14.5	15.3	9.5	8.9	9.2	7.1	6.1	6.7
3	22.3	21.2	21.8	16.1	14.3	15.1	8.9	8.9	8.9	6.6	5.9	6.3
4	22.3	20.8	21.4	16.3	14.6	15.3	8.7	8.5	8.6	6.4	4.7	6.0
5	21.5	20.6	21.0	15.8	14.8	15.3	8.7	8.5	8.6	5.8	3.7	4.6
6	22.1	20.6	21.0	15.9	14.9	15.4	8.9	8.5	8.6	5.3	3.7	4.4
7	22.1	20.4	21.0	15.5	14.7	15.0	10.4	8.5	9.4	5.7	4.6	5.3
8	22.1	20.4	21.0	15.7	14.5	15.0	9.5	8.9	9.3	5.4	4.0	4.6
9	21.0	20.2	20.5	15.8	14.8	15.3	10.4	9.3	9.7	4.6	4.2	4.4
10	21.4	19.6	20.3	15.6	14.4	15.2	10.6	9.9	10.1	4.8	4.4	4.5
11	21.2	19.4	20.0	15.5	13.9	14.4	10.3	9.1	9.4	5.0	4.4	4.6
12	20.3	19.3	19.6	15.5	13.7	14.4	9.8	9.1	9.4	5.2	5.0	5.1
13	20.4	19.4	19.8	15.2	13.6	14.2	9.6	8.8	9.2	6.1	5.2	5.7
14	20.3	19.5	19.8	14.8	13.2	13.9	8.8	8.4	8.6	6.5	5.7	6.1
15	20.5	19.2	19.8	14.6	13.7	14.0	9.0	8.2	8.5	7.8	6.5	7.2
16	20.2	19.0	19.6	14.1	13.7	13.8	8.8	8.4	8.6	8.0	6.8	7.5
17	20.5	18.7	19.4	14.3	13.5	13.8	8.8	8.6	8.6	8.6	7.6	8.1
18	20.4	18.4	19.2	14.6	13.4	13.8	8.6	8.4	8.5	8.6	8.2	8.4
19	19.1	18.7	18.9	14.4	13.2	13.6	8.6	8.2	8.3	9.6	8.4	8.9
20	19.8	18.5	19.1	14.5	13.3	13.7	8.4	7.8	8.1	9.4	8.6	8.9
21	19.2	18.1	18.5	14.6	13.5	13.9	8.4	7.6	7.9	8.6	8.0	8.3
22	18.7	18.2	18.4	14.0	13.0	13.4	8.2	7.8	7.9	8.0	7.6	7.8
23	18.8	17.8	18.4	13.0	12.2	12.6	8.0	7.2	7.7	7.8	7.2	7.5
24	18.0	17.2	17.6	12.6	11.6	12.0	7.8	7.2	7.4	7.3	6.7	6.9
25	17.8	16.8	17.3	12.2	11.2	11.7	7.6	6.6	7.1	6.9	6.3	6.6
26	17.3	16.3	16.9	11.8	11.2	11.4	7.6	6.4	6.8	6.5	6.1	6.3
27	17.1	15.8	16.4	11.2	10.8	11.1	7.5	6.2	6.7	6.1	5.5	6.0
28	17.4	15.5	16.3	11.4	11.0	11.3	7.7	6.5	6.8	6.3	6.1	6.2
29	17.2	15.3	16.0	11.0	10.4	10.8	7.1	6.5	6.8	6.3	5.9	6.0
30	16.9	15.3	16.0	10.4	10.1	10.3	7.5	6.3	6.8	5.9	5.4	5.7
31	17.1	15.8	16.3	---	---	---	7.1	6.5	6.8	5.7	5.2	5.4
MONTH	22.5	15.3	19.2	16.6	10.1	13.7	10.6	6.2	8.3	9.6	3.7	6.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	5.6	5.1	5.3	7.6	7.2	7.3	14.5	11.4	12.8	14.8	14.4	14.7
2	5.4	5.4	5.4	7.8	7.6	7.7	14.4	11.6	12.8	15.4	14.6	14.9
3	6.0	5.3	5.6	7.6	7.4	7.5	16.3	11.5	13.4	15.6	14.6	15.0
4	6.0	5.1	5.6	7.9	7.4	7.5	15.5	12.6	13.9	15.0	14.4	14.7
5	5.3	4.5	4.9	7.9	7.7	7.8	14.7	11.5	12.9	15.2	14.6	14.8
6	4.7	4.3	4.4	7.9	7.9	7.9	16.0	10.9	12.9	15.4	14.6	14.9
7	4.3	3.7	4.0	9.1	7.7	8.3	15.2	11.0	12.8	15.8	14.8	15.1
8	3.7	3.3	3.5	8.9	7.7	8.1	17.0	11.1	13.8	15.8	14.6	15.1
9	---	---	---	7.9	7.5	7.6	17.1	12.5	14.3	15.6	15.0	15.2
10	4.2	4.0	4.0	7.5	6.9	7.3	17.9	13.0	15.1	16.2	15.0	15.6
11	4.4	4.0	4.1	8.3	7.3	7.8	16.4	13.7	14.7	16.3	15.7	16.0
12	4.4	3.8	4.0	8.1	7.1	7.5	15.2	13.4	14.2	16.2	15.7	16.1
13	4.3	3.8	4.0	7.9	7.1	7.5	16.3	13.0	14.2	16.2	15.9	16.1
14	4.9	4.3	4.4	8.1	7.3	7.7	16.4	12.1	14.1	16.2	15.5	15.9
15	4.6	4.4	4.5	8.6	7.5	8.1	15.7	11.9	13.9	16.1	15.5	15.9
16	4.8	4.5	4.6	8.6	7.8	8.3	17.3	13.0	14.7	16.1	15.5	15.8
17	4.9	4.5	4.7	9.0	7.8	8.3	14.9	14.0	14.3	16.3	16.1	16.2
18	5.6	4.9	5.2	9.6	8.2	8.9	17.6	13.9	15.4	16.6	16.0	16.2
19	6.5	5.1	5.5	9.8	8.6	9.2	18.1	14.0	15.7	16.7	16.1	16.3
20	6.9	5.5	6.0	12.9	8.6	10.1	16.0	14.0	14.7	16.6	16.1	16.4
21	6.9	5.8	6.2	11.2	8.9	9.8	17.4	14.1	15.3	16.9	16.3	16.5
22	6.8	5.8	6.2	11.7	9.7	10.6	16.5	13.6	14.8	16.7	16.3	16.5
23	7.0	6.4	6.7	12.2	10.4	11.1	14.2	13.6	13.8	16.8	16.2	16.6
24	6.7	6.1	6.5	12.4	10.9	11.6	13.7	13.3	13.5	17.1	16.3	16.8
25	7.1	5.9	6.5	12.3	11.0	11.4	16.1	13.3	14.3	17.4	16.6	17.0
26	7.6	6.4	7.1	12.8	11.1	11.9	17.6	13.3	15.0	17.7	16.3	16.9
27	7.4	7.0	7.3	11.9	11.0	11.6	17.4	13.3	14.7	17.4	16.2	16.7
28	7.6	7.2	7.5	12.8	11.0	11.6	15.1	13.1	14.3	17.1	16.2	16.6
29	---	---	---	12.5	11.2	12.0	15.7	14.3	14.8	17.6	16.2	16.8
30	---	---	---	12.9	11.2	11.9	14.8	14.4	14.6	17.3	15.8	16.6
31	---	---	---	14.6	11.7	12.8	---	---	---	16.9	15.4	16.0
MONTH	7.6	3.3	5.3	14.6	6.9	9.2	18.1	10.9	14.2	17.7	14.4	15.9

03400800 MARTINS FORK NEAR SMITH, KY--Continued

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	17.3	16.0	16.2	24.5	21.7	22.7	28.1	23.8	25.3	26.7	24.7	25.4
2	16.6	15.8	16.2	24.3	21.4	22.5	27.9	23.8	25.4	27.0	23.9	25.2
3	17.4	16.2	16.7	25.1	21.4	22.8	26.9	23.6	25.5	27.0	23.1	24.8
4	17.6	16.6	17.0	25.1	21.7	23.1	27.2	23.8	24.9	27.2	23.3	24.8
5	19.4	16.8	17.7	26.5	21.7	23.6	26.8	23.7	24.9	27.0	23.5	24.9
6	21.0	17.0	18.4	25.9	21.9	23.4	25.3	23.9	24.4	27.1	23.4	24.9
7	19.8	17.2	18.3	25.5	21.9	23.3	25.1	23.5	24.1	27.0	23.4	24.8
8	21.4	17.5	19.2	25.5	21.5	23.1	24.8	23.5	23.9	27.1	23.8	25.0
9	20.9	17.3	18.8	25.7	21.5	23.1	26.0	23.2	24.1	26.8	23.8	25.0
10	21.1	17.7	18.7	26.0	21.6	23.2	26.5	23.4	24.5	26.5	24.2	25.0
11	20.9	17.7	18.6	26.4	22.4	23.9	26.5	23.5	24.5	26.3	23.7	24.6
12	18.3	17.5	17.8	26.6	22.4	24.2	26.8	23.6	24.7	26.7	24.1	24.9
13	18.9	17.3	17.9	26.6	22.6	24.2	27.3	23.8	25.1	26.3	23.9	24.6
14	21.2	17.2	18.6	26.5	22.8	24.4	27.6	24.0	25.2	26.7	24.1	25.0
15	20.2	17.0	18.1	26.9	23.5	24.7	28.0	24.3	25.7	26.3	23.9	24.7
16	19.8	17.4	18.6	26.3	23.3	24.5	28.0	24.7	25.9	24.3	23.9	24.1
17	19.8	17.8	18.6	26.5	23.5	24.4	27.9	25.0	26.1	24.9	23.7	24.1
18	20.0	17.8	18.6	26.9	23.3	24.7	27.7	25.4	25.9	25.5	22.9	24.0
19	18.8	18.2	18.5	27.3	22.9	24.7	28.2	25.4	26.3	26.3	22.5	24.1
20	20.4	18.2	18.9	27.5	23.4	25.1	27.1	25.5	26.0	24.3	23.1	23.6
21	22.3	18.4	20.1	25.9	23.7	24.7	28.6	25.3	26.6	24.1	23.3	23.7
22	22.3	21.0	21.5	27.0	23.3	24.7	28.5	25.6	26.7	23.5	21.7	22.8
23	24.7	21.0	22.2	26.2	23.5	24.5	28.5	25.0	26.3	22.7	21.2	21.9
24	24.9	21.5	22.5	26.6	23.4	24.7	28.8	25.3	26.6	22.9	21.5	22.1
25	24.9	21.5	22.7	27.5	23.4	24.8	28.5	25.3	26.4	23.3	21.7	22.3
26	25.1	21.7	23.0	27.5	23.6	25.0	26.8	24.5	25.3	23.1	21.4	22.1
27	25.5	21.9	23.3	26.8	23.6	24.8	25.9	24.5	25.0	24.1	21.2	22.2
28	25.5	21.9	23.3	26.3	23.7	24.8	27.9	24.2	25.6	23.9	20.9	21.9
29	25.9	21.9	23.3	27.2	23.7	25.1	27.7	24.2	25.6	23.8	20.7	21.8
30	24.5	21.7	22.7	27.2	23.9	25.0	27.9	24.4	25.7	23.8	20.5	21.8
31	---	---	---	27.7	23.9	25.2	28.1	24.6	25.8	---	---	---
MONTH	25.9	15.8	19.5	27.7	21.4	24.2	28.8	23.2	25.4	27.2	20.5	23.9
YEAR	28.8	3.3	15.5									

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.2	8.0	8.1	9.5	9.0	9.3	10.9	10.6	10.8	11.5	11.3	11.4
2	8.3	8.1	8.2	9.8	9.5	9.6	11.0	10.8	10.9	11.7	11.3	11.6
3	8.3	8.1	8.2	10.0	9.6	9.8	11.0	10.9	11.0	11.9	11.6	11.7
4	8.4	8.1	8.2	10.0	9.7	9.8	11.1	10.8	11.0	11.7	11.5	11.6
5	8.6	8.3	8.4	10.0	9.7	9.9	10.9	10.8	10.9	12.1	11.6	11.8
6	8.6	8.4	8.4	10.1	9.8	9.9	10.8	10.7	10.8	11.7	11.2	11.6
7	8.6	8.4	8.4	10.2	9.8	10.0	10.7	10.4	10.5	11.8	11.1	11.4
8	8.6	8.3	8.4	10.0	9.7	9.9	10.7	10.6	10.6	12.4	11.7	12.1
9	8.6	8.4	8.5	9.8	9.6	9.7	10.6	10.3	10.5	12.4	12.0	12.2
10	8.8	8.5	8.6	9.9	9.7	9.8	10.5	10.3	10.4	12.3	12.1	12.2
11	9.1	8.4	8.6	10.0	9.8	9.9	10.7	10.4	10.6	12.1	11.9	12.0
12	8.7	8.4	8.5	10.1	9.8	9.9	10.8	10.5	10.7	11.9	11.8	11.8
13	8.8	8.4	8.6	10.2	9.9	10.0	10.9	10.6	10.7	11.8	11.6	11.7
14	8.7	8.4	8.6	10.3	10.0	10.2	11.0	10.9	11.0	11.6	11.4	11.5
15	8.9	8.5	8.6	10.4	10.2	10.3	11.0	10.9	11.0	11.4	11.0	11.3
16	8.8	8.5	8.6	10.3	10.1	10.2	11.1	10.9	11.0	11.3	11.1	11.2
17	8.7	8.3	8.6	10.4	10.0	10.2	11.0	11.0	11.0	11.2	10.9	11.0
18	8.6	8.3	8.5	10.2	10.0	10.1	11.0	10.9	11.0	11.1	10.9	11.0
19	8.5	8.4	8.5	10.5	10.1	10.3	11.2	11.0	11.1	11.1	10.7	10.9
20	8.7	8.4	8.6	10.4	10.1	10.2	11.1	11.0	11.0	11.0	10.7	10.9
21	8.9	8.6	8.7	10.1	9.8	10.0	11.2	11.0	11.1	11.1	10.9	11.0
22	8.8	8.7	8.8	10.2	9.9	10.0	11.2	11.0	11.1	11.2	11.0	11.2
23	9.0	8.8	8.9	10.4	10.0	10.3	11.1	11.0	11.0	11.2	11.0	11.1
24	9.2	8.9	9.0	10.7	10.4	10.5	11.3	11.0	11.1	11.4	11.1	11.3
25	9.1	8.9	9.0	10.8	10.4	10.6	11.4	11.1	11.3	11.6	11.4	11.5
26	9.3	9.0	9.2	10.8	10.4	10.6	11.5	11.3	11.4	11.6	11.4	11.5
27	9.5	9.2	9.3	10.8	10.5	10.6	11.8	11.4	11.6	11.7	11.5	11.6
28	9.5	9.2	9.3	10.6	10.3	10.4	11.7	11.5	11.5	11.6	11.4	11.5
29	9.5	9.2	9.3	10.5	10.4	10.5	11.7	11.5	11.6	11.7	11.4	11.6
30	9.6	9.3	9.5	10.7	10.5	10.6	11.7	11.5	11.6	11.8	11.6	11.7
31	9.6	9.2	9.3	---	---	---	11.7	11.5	11.5	11.9	11.8	11.8
MONTH	9.6	8.0	8.7	10.8	9.0	10.1	11.8	10.3	11.0	12.4	10.7	11.5

CUMBERLAND RIVER BASIN

03400800 MARTINS FORK NEAR SMITH, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

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

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 mi^2.

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

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

GAGE.--Water-stage recorder. Datum of gage is 1,140.10 ft above sea level. Prior to Nov. 4, 1941, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Feb. 9-10, 14, 28, Mar. 3-6, Sept. 26-30. Records good except for periods of estimated record, which are poor. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	113	97	438	137	843	2070	360	470	362	253	97	44
2	121	101	279	142	808	1500	340	914	530	199	140	47
3	123	92	236	129	838	1190	325	845	528	170	113	42
4	92	84	234	121	2670	1020	315	744	419	159	82	40
5	83	105	299	85	1940	950	302	711	390	148	74	40
6	80	121	314	338	1270	1480	287	611	290	141	72	39
7	79	120	296	2580	1060	1830	283	545	270	136	79	54
8	77	115	278	1200	903	3150	277	503	251	127	91	51
9	89	110	262	797	760	2990	269	607	243	120	83	41
10	95	124	357	858	650	2130	257	1530	242	132	77	39
11	87	104	1010	771	553	2120	241	2270	263	136	81	40
12	83	88	650	954	478	2430	304	1570	530	113	92	51
13	91	83	604	940	429	2240	346	2170	494	102	83	50
14	100	81	510	933	390	1860	294	8340	347	112	70	70
15	130	104	456	7160	4000	1500	277	4910	272	101	65	66
16	129	117	406	6530	6270	1200	271	2870	259	96	58	55
17	119	122	319	2770	3660	926	272	2170	240	104	55	101
18	85	101	303	1880	2400	814	279	1840	224	118	55	94
19	90	90	282	1490	1800	732	262	5940	212	104	96	68
20	110	90	263	1480	1480	691	302	3060	238	87	95	58
21	105	87	252	1250	1330	1120	477	2050	314	82	74	65
22	133	88	201	1090	1140	1050	531	1560	283	81	64	136
23	170	86	186	1010	1000	977	504	1160	254	98	58	177
24	180	90	175	875	809	858	1130	894	272	111	53	119
25	151	97	167	664	737	753	1010	742	246	99	49	90
26	136	96	161	586	699	692	802	665	212	124	48	88
27	126	166	153	534	713	657	641	493	188	123	47	110
28	107	1080	147	571	2490	537	540	466	168	112	48	96
29	83	814	144	976	---	486	504	428	156	86	46	86
30	77	543	141	1050	---	446	476	400	198	78	45	75
31	79	---	136	964	---	420	---	369	---	72	43	---
TOTAL	3323	5196	9659	40865	42120	40819	12478	51847	8895	3724	2233	2132
MEAN	107	173	312	1318	1504	1317	416	1672	296	120	72.0	71.1
MAX	180	1080	1010	7160	6270	3150	1130	8340	530	253	140	177
MIN	77	81	136	85	390	420	241	369	156	72	43	39
CFSM	.29	.46	.83	3.52	4.02	3.52	1.11	4.47	.79	.32	.19	.19
IN.	.33	.52	.96	4.06	4.19	4.06	1.24	5.16	.88	.37	.22	.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

MEAN	180	453	914	1179	1347	1453	1034	733	383	311	217	127
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	370411		223291			
ANNUAL MEAN	1015		612		691	
HIGHEST ANNUAL MEAN					1130	1994
LOWEST ANNUAL MEAN					293	1941
HIGHEST DAILY MEAN	18700	Feb 11	8340	May 14	33900	Apr 4 1977
LOWEST DAILY MEAN	61	Sep 30	39	Sep 6	5.0	Oct 9 1953
ANNUAL SEVEN-DAY MINIMUM	74	Sep 24	42	Aug 31	6.7	Oct 7 1953
INSTANTANEOUS PEAK FLOW			13100	May 14	64500	Apr 5 1977
INSTANTANEOUS PEAK STAGE			13.12	May 14	30.20	Apr 5 1977
INSTANTANEOUS LOW FLOW					3.0	Oct 9 1953
ANNUAL RUNOFF (CFSM)	2.71		1.64		1.85	
ANNUAL RUNOFF (INCHES)	36.84		22.21		25.11	
10 PERCENT EXCEEDS	2440		1500		1550	
50 PERCENT EXCEEDS	300		254		327	
90 PERCENT EXCEEDS	94		73		53	

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 mi^2. Area at site used prior to Oct. 1970, 58.2 mi^2 and at site used Oct. 1, 1970 to Sept. 30, 1973, 62.8 mi^2.

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. 4-14. Records good except for period of estimated record, which is poor. Occasional regulation from Fern Lake. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	8.3	29	32	21	83	282	59	75	53	47	44	6.4
2	8.2	20	26	23	99	192	56	148	149	23	35	9.6
3	8.4	16	22	20	117	161	53	102	83	19	11	6.8
4	8.5	15	42	19	200	134	51	89	55	17	8.7	6.0
5	7.8	14	99	15	150	154	47	90	45	16	8.2	9.5
6	7.5	14	82	145	120	353	46	71	38	15	8.6	6.5
7	7.9	16	58	434	90	364	44	62	86	15	11	5.9
8	8.7	15	45	193	76	1420	42	55	61	13	12	5.5
9	16	13	38	127	66	632	41	259	45	12	11	5.5
10	16	14	199	96	60	355	38	427	35	17	44	5.5
11	11	15	308	120	54	299	34	360	51	22	17	6.0
12	9.6	14	136	293	50	247	60	204	104	13	11	12
13	21	14	91	199	46	202	48	224	66	12	8.6	7.7
14	16	15	69	240	42	166	39	1370	47	11	7.9	11
15	12	14	56	1060	1150	140	36	629	36	10	7.0	7.9
16	12	15	51	1030	1210	122	34	266	32	9.7	6.5	7.7
17	11	14	57	371	563	107	42	179	27	10	6.0	41
18	11	13	49	213	307	94	43	136	24	15	5.5	14
19	24	13	42	178	212	86	36	166	24	9.6	5.5	8.2
20	24	13	37	196	166	100	39	108	25	8.7	5.5	7.2
21	17	17	35	147	150	272	96	87	24	8.4	5.5	15
22	15	17	33	123	121	174	69	73	21	8.3	5.3	49
23	18	15	33	107	111	148	70	64	33	8.3	5.3	25
24	17	13	31	92	102	121	126	56	28	8.4	5.3	13
25	17	13	28	79	90	103	104	50	30	8.7	5.3	11
26	14	14	26	74	84	92	88	45	38	10	5.3	22
27	13	74	24	68	93	95	77	42	23	8.7	5.1	16
28	13	366	23	88	438	81	67	64	19	7.9	5.3	10
29	13	80	22	100	---	73	59	48	18	6.8	5.5	8.6
30	14	45	21	93	---	66	65	41	22	7.6	5.2	7.6
31	15	---	23	87	---	62	---	33	---	17	5.1	---
TOTAL	414.9	960	1838	6051	6050	6897	1709	5623	1342	415.1	332.2	367.1
MEAN	13.4	32.0	59.3	195	216	222	57.0	181	44.7	13.4	10.7	12.2
MAX	24	366	308	1060	1210	1420	126	1370	149	47	44	49
MIN	7.5	13	21	15	42	62	34	33	18	6.8	5.1	5.5
CFSM	.22	.53	.98	3.22	3.57	3.67	.94	2.99	.74	.22	.18	.20
IN.	.25	.59	1.13	3.71	3.71	4.23	1.05	3.45	.82	.25	.20	.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

MEAN	25.1	77.2	167	210	237	255	176	119	64.8	53.0	35.6	20.0
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1941 - 1995	
ANNUAL TOTAL	69051.1		31999.3			
ANNUAL MEAN	189		87.7		119	
HIGHEST ANNUAL MEAN					219	1991
LOWEST ANNUAL MEAN					49.5	1941
HIGHEST DAILY MEAN	5000	Feb 11	1420	Mar 8	7000	Apr 4 1977
LOWEST DAILY MEAN	7.5	Oct 6	5.1	Aug 27	1.2	Oct 7 1952
ANNUAL SEVEN-DAY MINIMUM	8.1	Oct 1	5.3	Aug 25	1.6	Sep 17 1955
INSTANTANEOUS PEAK FLOW			2650	May 14	11700	Apr 4 1977
INSTANTANEOUS PEAK STAGE			11.87	May 14	23.35	Apr 4 1977
INSTANTANEOUS LOW FLOW					.00	Sep 26 1952
ANNUAL RUNOFF (CFSM)	3.12		1.45		1.97	
ANNUAL RUNOFF (INCHES)	42.39		19.64		26.78	
10 PERCENT EXCEEDS	379		197		254	
50 PERCENT EXCEEDS	42		36		45	
90 PERCENT EXCEEDS	14		7.9		7.6	

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 mi^2.

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. 7-14. Records good except for period of estimated record, which is poor. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979. Specific conductance and temperature made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	117	155	610	238	1440	4040	725	883	604	405	188	59
2	133	179	477	250	1370	2640	665	1500	996	358	177	60
3	169	163	366	241	1400	2160	625	1580	1100	281	146	59
4	166	153	352	220	3330	1880	590	1360	784	243	138	58
5	142	144	529	204	3480	1730	572	1260	683	221	108	57
6	127	136	651	469	2330	2550	538	1120	610	212	97	57
7	121	162	545	4360	1800	3810	522	981	570	200	108	57
8	120	166	474	2580	1500	7780	508	914	527	181	156	55
9	119	161	425	1450	1260	7440	488	1110	434	164	187	59
10	145	164	525	1240	1150	4320	466	3190	396	192	179	60
11	150	171	2000	1150	1000	3840	430	4710	424	247	166	56
12	138	170	1370	1830	900	3820	541	3220	967	205	138	60
13	144	145	959	1770	790	3520	693	2760	1010	163	130	80
14	160	136	789	1660	730	2940	619	13600	751	151	114	104
15	155	135	672	9530	7630	2420	562	14600	587	147	99	87
16	161	136	605	13800	13300	2040	522	6000	471	142	88	83
17	163	163	555	5940	8490	1640	543	3580	415	146	79	117
18	160	164	488	3210	4710	1410	573	2980	365	165	75	135
19	153	157	441	2440	3220	1270	539	9420	340	154	73	121
20	169	136	415	2580	2550	1200	652	5960	381	140	83	90
21	176	137	394	2190	2220	2040	1070	3270	465	118	99	82
22	166	137	371	1850	1920	2040	1210	2440	464	111	91	117
23	176	137	334	1620	1710	1800	1100	1870	412	115	80	228
24	217	134	316	1430	1450	1590	1940	1470	420	123	72	202
25	226	133	299	1180	1270	1370	2000	1210	489	137	68	150
26	191	142	285	1010	1190	1230	1610	1060	482	135	64	143
27	178	205	279	912	1130	1170	1300	882	367	149	63	145
28	170	1660	269	943	3420	1070	1080	821	282	139	62	146
29	159	1520	257	1450	---	908	932	758	252	134	61	123
30	142	825	252	1720	---	826	891	698	261	111	61	101
31	131	---	249	1620	---	775	---	626	---	111	60	---
TOTAL	4844	8126	16553	71087	76690	77269	24506	95833	16309	5500	3310	2951
MEAN	156	271	534	2293	2739	2493	817	3091	544	177	107	98.4
MAX	226	1660	2000	13800	13300	7780	2000	14600	1100	405	188	228
MIN	117	133	249	204	730	775	430	626	252	111	60	55
CFSM	.20	.35	.69	2.98	3.56	3.24	1.06	4.01	.71	.23	.14	.13
IN.	.23	.39	.80	3.43	3.71	3.73	1.18	4.63	.79	.27	.16	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

MEAN	207	551	2715	2462	3072	3693	2205	1525	712	350	408	205
MAX	330	715	5204	4201	6720	5367	4437	3091	1418	617	583	347
(WY)	1993	1993	1992	1994	1994	1994	1994	1995	1992	1992	1994	1992
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1992 - 1995	
ANNUAL TOTAL	739019		402978			
ANNUAL MEAN	2025		1104		1503	
HIGHEST ANNUAL MEAN					2241	1994
LOWEST ANNUAL MEAN					1104	1995
HIGHEST DAILY MEAN	30100	Feb 12	14600	May 15	30800	Dec 3 1991
LOWEST DAILY MEAN	117	Oct 1	55	Sep 8	55	Sep 8 1995
ANNUAL SEVEN-DAY MINIMUM	131	Oct 6	57	Sep 5	57	Sep 5 1995
INSTANTANEOUS PEAK FLOW			20300	May 14	38700	Feb 11 1994
INSTANTANEOUS PEAK STAGE			30.31	May 14	43.67	Feb 11 1994
INSTANTANEOUS LOW FLOW			51	Sep 8	51	Sep 8 1995
ANNUAL RUNOFF (CFSM)	2.63		1.43		1.95	
ANNUAL RUNOFF (INCHES)	35.70		19.47		26.53	
10 PERCENT EXCEEDS	4810		2580		3220	
50 PERCENT EXCEEDS	545		430		648	
90 PERCENT EXCEEDS	155		103		136	

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 mi^2.

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

REVISED RECORDS.--WSP 1436: Drainage area.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 891.52 ft above sea level. See WDR KY-90-1 for history of changes prior to June 26, 1990.

REMARKS.--Estimated daily discharges: Feb. 8-14. Records good except for period of estimated record, which is fair. Flow slightly regulated by Martins Fork Dam (station 03400798) beginning January 1979. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	182	206	1290	413	2930	4940	1380	1770	1290	1360	175	89
2	172	191	930	410	2650	5370	1290	2210	1420	1140	191	88
3	168	196	737	410	2570	4020	1180	3000	1980	781	351	87
4	175	226	601	408	2870	3420	1110	2900	1940	579	265	91
5	205	221	746	383	4800	3060	1050	2530	1420	479	217	92
6	213	207	1150	475	4910	3630	1010	2260	1160	465	204	86
7	199	198	1260	4280	3690	6280	954	1970	1060	493	184	83
8	176	192	1050	7290	3000	13100	918	1670	1060	424	361	78
9	176	198	874	4740	2500	20100	885	1540	934	364	732	76
10	184	210	831	2770	2250	16300	855	4050	783	323	501	75
11	224	210	2470	2210	2000	11300	811	7160	773	380	426	72
12	220	210	3540	2600	1800	7970	879	7760	1490	390	419	91
13	223	212	2540	3570	1600	6950	1230	5630	2250	374	320	137
14	225	216	1710	4040	1450	6000	1300	10900	1930	307	254	113
15	231	205	1350	11800	4600	4980	1170	20600	1370	256	219	145
16	238	196	1130	17800	15500	4140	1050	19300	1040	232	195	157
17	232	190	1060	17500	19000	3510	1010	17800	866	228	172	157
18	222	190	1050	14800	17700	2930	1190	11200	728	241	149	169
19	226	194	956	7420	12600	2530	1220	9190	647	261	136	198
20	224	202	857	5170	6310	2290	1230	12400	619	252	148	204
21	233	206	774	4960	4500	2810	2560	10900	627	231	132	183
22	243	191	718	4140	3830	3780	3930	5870	692	209	125	159
23	258	180	681	3420	3260	3630	3510	3850	674	191	138	174
24	247	178	633	2920	2870	3220	3660	2930	681	180	143	263
25	251	177	582	2520	2490	2770	4320	2410	651	178	128	312
26	277	176	539	2120	2180	2400	3930	2290	739	183	115	295
27	284	181	506	1840	2020	2180	3120	1910	779	189	107	281
28	267	652	476	1740	2360	2120	2540	3230	638	190	102	295
29	237	2490	458	2220	---	1920	2100	3460	526	199	98	248
30	225	2290	438	2940	---	1640	1800	2320	532	189	91	218
31	219	---	423	3180	---	1490	---	1560	---	184	89	---
TOTAL	6856	10791	32360	140489	138240	160780	53192	186570	31299	11452	6887	4716
MEAN	221	360	1044	4532	4937	5186	1773	6018	1043	369	222	157
MAX	284	2490	3540	17800	19000	20100	4320	20600	2250	1360	732	312
MIN	168	176	423	383	1450	1490	811	1540	526	178	89	72
CFSM	.14	.22	.65	2.82	3.07	3.23	1.10	3.75	.65	.23	.14	.10
IN.	.16	.25	.75	3.25	3.20	3.72	1.23	4.32	.72	.27	.16	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1995, BY WATER YEAR (WY)

MEAN	632	1726	3710	4651	5298	5999	4284	2898	1468	951	671	474
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1951 - 1995	
ANNUAL TOTAL	1434694		783632			
ANNUAL MEAN	3931		2147		2719	
HIGHEST ANNUAL MEAN					4390	1994
LOWEST ANNUAL MEAN					1159	1988
HIGHEST DAILY MEAN	38500	Feb 13	20600	May 15	47600	Feb 1 1957
LOWEST DAILY MEAN	168	Oct 3	72	Sep 11	6.1	Oct 26 1953
ANNUAL SEVEN-DAY MINIMUM	184	Nov 21	80	Sep 6	6.9	Oct 22 1953
INSTANTANEOUS PEAK FLOW			21400	May 15	49700	Jan 31 1957
INSTANTANEOUS PEAK STAGE			21.09	May 15	35.03	Apr 7 1977
INSTANTANEOUS LOW FLOW			72	Sep 11	6.1	Oct 23 1953
ANNUAL RUNOFF (CFSM)	2.45		1.34		1.69	
ANNUAL RUNOFF (INCHES)	33.21		18.14		22.99	
10 PERCENT EXCEEDS	12300		4920		6520	
50 PERCENT EXCEEDS	1080		781		1200	
90 PERCENT EXCEEDS	213		173		161	

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 mi^2.

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: Feb. 3-14. Record good except for periods of estimated record, which is poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	3.7	10	41	16	93	71	29	98	47	170	3.3	1.3
2	3.4	10	35	16	84	59	29	179	71	48	5.0	1.3
3	3.4	10	32	16	74	57	26	104	77	27	4.4	1.3
4	3.2	10	66	15	65	62	25	82	36	19	4.2	1.3
5	2.7	10	202	12	56	86	26	78	27	15	4.0	1.3
6	2.7	8.9	121	270	50	229	26	63	24	19	3.3	1.3
7	2.6	8.9	81	637	48	210	26	53	21	20	3.9	1.3
8	2.3	9.5	60	173	45	1330	25	49	20	12	137	1.3
9	9.8	9.7	56	115	42	618	23	64	24	9.6	55	1.3
10	8.2	12	225	84	40	297	21	85	18	7.7	19	1.3
11	6.7	12	344	89	38	260	21	87	94	6.7	13	2.1
12	4.6	12	131	194	36	203	107	58	158	5.1	9.4	5.0
13	21	12	85	123	35	162	65	236	69	4.7	6.7	22
14	23	12	58	349	33	134	42	1360	35	4.2	5.9	17
15	15	11	41	1030	829	115	36	771	23	4.2	4.9	5.7
16	11	10	40	779	953	101	33	207	17	4.2	4.1	9.8
17	9.2	10	79	266	500	88	56	195	14	6.5	3.0	20
18	8.2	10	60	164	237	78	62	345	12	8.7	2.8	11
19	9.4	10	44	154	168	70	43	679	10	5.5	1.9	5.5
20	12	10	36	231	133	78	160	241	13	4.5	7.3	4.3
21	12	10	32	151	113	126	444	147	15	3.0	4.1	3.5
22	11	10	28	119	93	84	202	102	11	3.0	2.5	17
23	11	10	28	100	82	72	172	75	12	3.0	1.7	15
24	12	10	25	83	74	63	309	55	24	3.0	1.1	8.2
25	12	10	22	70	63	52	163	58	12	7.5	.74	5.8
26	11	9.2	20	64	58	43	121	92	56	7.6	3.9	17
27	9.3	94	19	57	58	48	96	47	133	8.0	9.2	21
28	8.9	322	18	140	90	50	84	225	32	6.6	3.9	10
29	8.9	107	17	192	---	39	67	177	19	4.8	2.4	6.5
30	8.9	58	16	130	---	35	59	79	21	3.2	1.7	5.4
31	8.9	---	16	108	---	30	---	53	---	2.7	1.3	---
TOTAL	276.0	848.2	2078	5947	4190	4950	2598	6144	1145	454.0	330.64	224.8
MEAN	8.90	28.3	67.0	192	150	160	86.6	198	38.2	14.6	10.7	7.49
MAX	23	322	344	1030	953	1330	444	1360	158	170	137	22
MIN	2.3	8.9	16	12	33	30	21	47	10	2.7	.74	1.3
CFSM	.17	.53	1.25	3.57	2.78	2.97	1.61	3.68	.71	.27	.20	.14
IN.	.19	.59	1.44	4.11	2.90	3.42	1.80	4.25	.79	.31	.23	.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1995, BY WATER YEAR (WY)

MEAN	33.2	85.5	124	153	163	157	105	93.0	49.4	37.9	25.9	31.3
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1967 - 1995	
ANNUAL TOTAL	45224.7		29185.64			
ANNUAL MEAN	124		80.0		87.9	
HIGHEST ANNUAL MEAN					141	1994
LOWEST ANNUAL MEAN					36.5	1988
HIGHEST DAILY MEAN	1740	Feb 11	1360	May 14	4150	May 7 1984
LOWEST DAILY MEAN	2.3	Oct 8	.74	Aug 25	.02	Jun 24 1988
ANNUAL SEVEN-DAY MINIMUM	2.9	Oct 2	1.3	Aug 31	.02	Jun 24 1988
INSTANTANEOUS PEAK FLOW			2000	May 14	9000	Jan 29 1957
INSTANTANEOUS PEAK STAGE			8.28	May 14	22.50	Jan 29 1957
INSTANTANEOUS LOW FLOW					.02	Jun 24 1988
ANNUAL RUNOFF (CFSM)	2.30		1.49		1.63	
ANNUAL RUNOFF (INCHES)	31.27		20.18		22.20	
10 PERCENT EXCEEDS	327		184		196	
50 PERCENT EXCEEDS	44		26		36	
90 PERCENT EXCEEDS	7.1		3.5		3.4	

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 mi^2.

PERIOD OF RECORD.--July 1936 to current year.

REVISED RECORDS.--WSP 1436: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 802.90 ft above sea level. Prior to Nov. 19, 1940, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Feb. 3-14. Records good except for period of estimated record, which is poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	27	42	457	181	925	931	473	848	458	291	41	20
2	26	44	342	181	868	806	437	3640	1100	355	72	27
3	25	44	269	175	830	751	404	2930	1140	271	57	23
4	24	48	260	162	790	724	375	1930	934	211	82	22
5	23	46	917	144	730	706	343	1500	682	168	57	23
6	22	51	1280	337	680	913	315	1190	532	184	49	22
7	21	54	852	7340	630	1460	298	936	438	258	43	20
8	20	52	620	3920	590	4240	284	766	365	266	52	20
9	22	52	485	1910	550	6780	271	693	308	193	181	20
10	23	53	627	1290	510	3590	264	1910	273	144	219	20
11	21	52	4350	1020	470	3060	260	2050	270	119	165	19
12	24	51	2150	1160	450	2630	315	1650	590	101	171	18
13	44	49	1210	1140	430	2110	781	3040	855	88	107	20
14	195	47	854	1210	410	1650	682	14200	565	78	76	20
15	295	46	643	8470	3540	1330	590	9900	414	68	60	20
16	171	47	533	11500	9750	1100	530	4160	384	64	48	34
17	110	46	541	5650	5980	920	663	2610	351	67	41	90
18	81	45	579	2650	3360	780	1020	5710	264	77	36	117
19	69	44	514	1830	2220	674	865	24200	216	101	31	130
20	63	43	459	2270	1660	619	1070	12000	216	76	31	86
21	60	43	416	2020	1370	852	2720	2930	277	65	31	60
22	62	44	379	1570	1130	907	3090	1820	287	55	88	49
23	84	42	348	1270	947	817	1950	1270	244	48	55	49
24	68	40	322	1040	815	861	5330	931	227	46	41	39
25	57	38	293	841	675	733	3810	718	244	44	33	33
26	52	38	265	723	600	657	2230	645	357	47	29	37
27	49	50	240	637	559	639	1580	527	1580	51	25	34
28	46	2160	221	663	695	708	1240	767	791	52	23	31
29	42	2080	208	1190	---	624	966	1010	476	44	21	29
30	39	717	195	1130	---	560	810	702	339	38	19	26
31	39	---	186	1010	---	513	---	537	---	33	18	---
TOTAL	1904	6208	21015	64634	42164	43645	33966	107720	15177	3703	2002	1158
MEAN	61.4	207	678	2085	1506	1408	1132	3475	506	119	64.6	38.6
MAX	295	2160	4350	11500	9750	6780	5330	24200	1580	355	219	130
MIN	20	38	186	144	410	513	260	527	216	33	18	18
CFSM	.10	.34	1.12	3.45	2.49	2.33	1.87	5.75	.84	.20	.11	.06
IN.	.12	.38	1.29	3.98	2.60	2.69	2.09	6.63	.93	.23	.12	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1995, BY WATER YEAR (WY)

MEAN	199	573	1293	1679	1953	1997	1472	964	518	358	204	156
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1936 - 1995	
ANNUAL TOTAL	495357		343296			
ANNUAL MEAN	1357		941		943	
HIGHEST ANNUAL MEAN					1575	1979
LOWEST ANNUAL MEAN					345	1954
HIGHEST DAILY MEAN	19700	Mar 10	24200	May 19	46200	Dec 9 1978
LOWEST DAILY MEAN	20	Oct 8	18	Aug 31	.90	Sep 9 1957
ANNUAL SEVEN-DAY MINIMUM	22	Oct 5	20	Sep 7	1.4	Sep 11 1964
INSTANTANEOUS PEAK FLOW			26500	May 19	50000	Dec 9 1978
INSTANTANEOUS PEAK STAGE			32.57	May 19	47.17	Dec 9 1978
INSTANTANEOUS LOW FLOW			18	Aug 31	.80	Sep 9 1957
ANNUAL RUNOFF (CFSM)	2.25		1.56		1.56	
ANNUAL RUNOFF (INCHES)	30.51		21.14		21.21	
10 PERCENT EXCEEDS	3540		2130		2140	
50 PERCENT EXCEEDS	297		337		325	
90 PERCENT EXCEEDS	40		31		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 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1942 to current year.
REVISED RECORDS.--WSP 1113: 1946(M). WSP 1436: Drainage area.
GAGE--.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. Water-discharge records good.
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	88	102	884	320	1840	2020	682	913	1260	276	79	45
2	85	99	628	313	1640	1760	646	1840	1460	392	80	47
3	81	94	492	303	1530	1490	602	2230	1620	357	84	43
4	75	95	460	295	1490	1340	571	1650	1280	264	76	43
5	70	94	962	263	1600	1290	523	1340	899	220	80	41
6	67	101	2300	493	1280	2510	499	1100	699	220	88	40
7	63	114	1640	6490	1140	4420	469	913	573	216	86	40
8	61	111	1160	4840	960	17200	459	768	765	187	147	37
9	70	106	899	2790	830	15200	435	753	764	158	466	37
10	98	109	824	1970	770	6550	415	3900	537	129	509	34
11	104	113	4330	1580	750	5050	389	5590	593	122	296	31
12	94	106	3500	3360	710	4160	425	4240	1800	125	197	59
13	160	104	2010	4070	690	3260	619	2660	1980	121	150	57
14	158	101	1410	4980	660	2590	694	5440	1310	115	124	80
15	133	105	1090	25100	3320	2110	564	8420	877	98	106	63
16	111	109	898	14100	9990	1780	522	4260	636	86	90	61
17	107	107	811	7180	11000	1520	505	3730	494	79	80	111
18	111	102	788	4340	5570	1300	532	2180	398	95	71	119
19	106	97	721	3100	3770	1130	692	2490	336	78	68	120
20	115	97	636	3200	2810	1040	679	1910	332	100	71	171
21	121	96	573	2920	2250	1200	1640	1350	361	103	143	129
22	121	87	541	2330	1820	1520	3590	1010	470	85	210	111
23	139	83	516	1920	1510	1310	2420	794	469	78	124	100
24	145	79	487	1630	1340	1160	3120	640	402	79	97	93
25	137	76	454	1370	1180	1000	3120	528	333	79	93	132
26	142	75	420	1210	1050	885	2230	1450	378	73	81	151
27	137	116	392	1120	985	847	1700	1190	653	62	71	146
28	123	1650	367	1170	1070	905	1340	1870	597	62	65	143
29	110	3790	348	2050	---	891	1080	7140	431	75	59	126
30	107	1450	333	2690	---	775	928	3340	316	67	53	114
31	106	---	325	2200	---	721	---	1800	---	66	48	---
TOTAL	3345	9568	31199	109697	63555	88934	32090	77439	23023	4267	3992	2524
MEAN	108	319	1006	3539	2270	2869	1070	2498	767	138	129	84.1
MAX	160	3790	4330	25100	11000	17200	3590	8420	1980	392	509	171
MIN	61	75	325	263	660	721	389	528	316	62	48	31
CFSM	.11	.33	1.05	3.71	2.38	3.01	1.12	2.62	.80	.14	.13	.09
IN.	.13	.37	1.22	4.28	2.48	3.47	1.25	3.02	.90	.17	.16	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1995, BY WATER YEAR (WY)

MEAN	401	1259	2681	3318	3585	3663	2533	1698	865	607	404	372
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1943 - 1995	
ANNUAL TOTAL	871870		449633			
ANNUAL MEAN	2389		1232		1774	
HIGHEST ANNUAL MEAN					3023	1973
LOWEST ANNUAL MEAN					810	1988
HIGHEST DAILY MEAN	50700	Mar 28	25100	Jan 15	80200	Mar 13 1975
LOWEST DAILY MEAN	61	Oct 8	31	Sep 11	11	Sep 18 1954
ANNUAL SEVEN-DAY MINIMUM	70	Oct 3	37	Sep 5	12	Sep 13 1954
INSTANTANEOUS PEAK FLOW			30700	Mar 8	93200	May 28 1973
INSTANTANEOUS PEAK STAGE			24.97	Mar 8	46.29	May 28 1973
INSTANTANEOUS LOW FLOW					11	Oct 4 1948
ANNUAL RUNOFF (CFSM	2.50		1.29		1.86	
ANNUAL RUNOFF (INCHES)	34.00		17.53		25.27	
10 PERCENT EXCEEDS	6200		3120		4060	
50 PERCENT EXCEEDS	732		494		710	
90 PERCENT EXCEEDS	107		76		83	

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

(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960-72, 1979 to February 1995 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1980 to September 1990.

pH: May 1980 to September 1990.

WATER TEMPERATURE: May 1980 to September 1990.

DISSOLVED OXYGEN: May 1980 to September 1990.

TURBIDITY: May 1980 to September 1987.

SUSPENDED SEDIMENT DISCHARGE: May 1980 to September 1990.

INSTRUMENTATION.--Five parameter water-quality monitor and sediment pumping sampler since May 1980.

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

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 434 microsiemens, July 17, 1985; minimum recorded, 40 microsiemens, May 7, 1984.

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

WATER TEMPERATURE: Maximum recorded, 34.6°C, Aug. 31, Sept. 1, 1989; minimum recorded, 0.0°C, Dec. 25-27, 1983.

DISSOLVED OXYGEN: Maximum recorded, 14.3 mg/L, Dec. 21, 1981, Jan. 1, 2, 1984; minimum recorded, 4.5 mg/L, May 22, 1980.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,980 mg/L, Aug. 9, 1981; minimum daily mean, 0 mg/L, on several days in 1983-84, 1987-88.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT												
18...	1215	110	144	7.6	16.5	0.70	8.4	88	3	25	50	12
DEC												
07...	1405	1560	147	8.0	13.0	4.4	10.7	104	--	1300	56	14
FEB												
22...	1205	1820	93	--	6.5	1.8	11.0	92	K5	10	34	7.7

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA-LINITY WAT DIS TOT FET FIELD MG/L AS CACO3	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO4)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
OCT												
18...	4.8	6.2	1.8	33	27	27	4.9	31	<0.10	2.4	61	<0.010
DEC												
07...	5.2	4.7	1.6	--	--	24	3.2	37	<0.10	4.9	97	<0.010
FEB												
22...	3.5	2.1	1.1	--	--	--	1.9	22	<0.10	4.7	57	<0.010

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	COBALT, DIS-SOLVED (UG/L AS CO)	IRON, DIS-SOLVED (UG/L AS FE)
OCT										
18...	<0.05	0.02	<0.2	<0.01	<0.01	<0.01	10	27	<3	54
DEC										
07...	0.16	0.02	<0.2	0.03	0.03	0.02	40	24	<3	79
FEB										
22...	0.33	0.23	<0.2	<0.01	<0.01	<0.01	--	--	--	--

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	NESE, DIS-SOLVED (UG/L AS MN)	DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	MANGA-NIUM, DIS-SOLVED (UG/L AS SE)	MOLYB-SILVER, DIS-SOLVED (UG/L AS AG)	SELE-TIUM, DIS-SOLVED (UG/L AS SR)	STRON-DIUM, DIS-SOLVED (UG/L AS V)	VANA-SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT											
18...	<4	30	<10	2	<1	<1.0	45	<6	2	0.59	57
DEC											
07...	<4	35	<10	2	<1	<1.0	40	<6	11	46	77
FEB											
22...	--	--	--	--	--	--	--	--	8	40	58

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 mi^2.

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.--Estimated daily discharges: Feb. 3-14. Records good except for period of estimated record, which is poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality section.

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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	2.8	13	7.7	42	26	17	92	39	15	2.5	1.4
2	2.8	3.0	10	7.2	40	23	16	209	53	10	4.2	1.4
3	2.8	3.1	8.4	7.1	38	22	15	86	35	7.5	5.1	1.4
4	2.8	3.1	15	6.6	37	22	15	57	25	6.6	3.5	1.4
5	2.7	3.1	46	6.2	35	35	14	42	20	6.1	3.1	1.8
6	2.8	3.1	27	335	33	139	14	32	18	7.7	3.1	1.2
7	2.8	3.1	19	363	32	121	14	26	16	7.7	3.1	1.5
8	2.8	3.1	14	119	30	724	13	22	14	6.1	8.2	1.4
9	4.5	2.8	12	70	28	302	12	31	13	5.7	5.9	1.4
10	5.3	2.8	148	49	27	217	12	49	12	5.6	4.3	1.4
11	5.3	3.0	194	40	26	202	11	30	21	5.7	3.5	1.5
12	4.5	3.1	64	74	26	149	12	25	33	4.9	3.1	1.8
13	9.0	2.8	36	56	25	113	15	27	18	4.9	2.8	2.2
14	7.9	2.8	25	117	24	89	13	723	14	4.5	2.8	2.5
15	5.0	2.8	19	412	980	71	12	252	12	4.4	2.5	2.4
16	3.9	2.8	17	105	584	60	11	120	11	3.9	2.3	3.1
17	3.2	2.8	16	53	335	50	11	94	9.7	4.3	2.3	4.3
18	3.1	2.6	16	48	189	43	11	349	9.0	4.9	2.3	2.7
19	3.1	2.5	14	74	134	37	12	559	8.9	4.4	2.2	2.3
20	3.3	2.4	13	63	101	36	12	174	8.9	3.9	2.0	2.3
21	3.5	2.5	12	50	77	39	84	105	8.7	3.9	2.0	2.0
22	3.5	2.5	11	41	60	36	57	70	10	4.2	1.8	2.0
23	3.1	2.3	11	35	53	32	36	50	9.1	3.9	1.6	2.0
24	2.7	2.1	10	30	42	27	49	38	7.9	3.9	1.6	2.0
25	2.8	2.0	9.5	26	36	23	38	30	8.2	3.6	1.6	2.0
26	2.8	2.0	8.6	24	34	23	30	25	8.0	3.5	1.8	2.0
27	2.8	7.3	8.3	22	31	23	25	21	10	3.2	1.8	2.4
28	2.8	218	7.9	47	30	21	23	81	8.8	2.8	1.8	2.4
29	2.8	42	7.7	85	---	19	20	64	7.0	2.5	1.8	2.0
30	2.8	19	7.7	58	---	18	19	33	7.7	2.5	1.8	2.0
31	2.8	---	7.7	47	---	17	---	25	---	2.5	1.4	---
TOTAL	112.8	357.3	827.8	2477.8	3129	2759	643	3541	475.9	160.3	87.8	60.2
MEAN	3.64	11.9	26.7	79.9	112	89.0	21.4	114	15.9	5.17	2.83	2.01
MAX	9.0	218	194	412	980	724	84	723	53	15	8.2	4.3
MIN	2.7	2.0	7.7	6.2	24	17	11	21	7.0	2.5	1.4	1.2
CFSM	.08	.27	.62	1.84	2.57	2.05	.49	2.63	.37	.12	.07	.05
IN.	.10	.31	.71	2.12	2.68	2.36	.55	3.04	.41	.14	.08	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1995, BY WATER YEAR (WY)

MEAN	24.8	33.8	108	120	119	131	117	58.4	41.0	18.0	18.3	17.2
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	1983	1995	1982	1980	1980	1980	1980

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1969 - 1995	
ANNUAL TOTAL	26258.8		14631.9			
ANNUAL MEAN	71.9		40.1		67.0	
HIGHEST ANNUAL MEAN					103	1979
LOWEST ANNUAL MEAN					32.5	1969
HIGHEST DAILY MEAN	2620	Apr 11	980	Feb 15	4280	Oct 17 1989
LOWEST DAILY MEAN	2.0	Nov 25	1.2	Sep 6	.50	Oct 2 1968
ANNUAL SEVEN-DAY MINIMUM	2.3	Nov 20	1.4	Aug 31	.95	Sep 4 1980
INSTANTANEOUS PEAK FLOW			1680	Feb 15	9300	Oct 17 1989
INSTANTANEOUS PEAK STAGE			5.62	Feb 15	8.37	Oct 17 1989
INSTANTANEOUS LOW FLOW			1.2	Sep 5	.50	Oct 2 1968
ANNUAL RUNOFF (CFSM)	1.66		.92		1.54	
ANNUAL RUNOFF (INCHES)	22.51		12.54		20.97	
10 PERCENT EXCEEDS	179		84		135	
50 PERCENT EXCEEDS	14		11		20	
90 PERCENT EXCEEDS	2.8		2.2		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 mi^2, of which about 94 mi^2 does not contribute directly to surface runoff.

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

REVISED RECORDS.--WSP 1173: 1942-43, 1946(M), 1949. WSP 1306: 1940(M). WSP 1626: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 391.45 ft above sea level. Prior to July 31, 1945, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	41	32	274	132	292	324	142	282	310	117	83	36
2	38	30	218	124	273	298	136	710	316	121	74	33
3	36	30	185	117	260	278	131	548	419	108	69	32
4	33	30	165	113	248	263	133	395	354	101	64	30
5	32	33	199	105	227	255	124	317	301	109	112	28
6	32	85	232	329	210	317	119	265	273	112	213	29
7	32	138	187	1290	202	540	114	227	671	106	186	29
8	31	77	162	744	184	1340	113	199	614	97	166	29
9	35	61	154	556	184	1040	109	184	468	90	172	29
10	34	59	1690	459	178	740	108	200	368	85	164	29
11	49	69	2590	408	174	620	105	177	370	80	123	28
12	41	57	1090	400	153	537	100	146	635	77	114	26
13	51	50	765	380	142	473	104	132	522	73	106	24
14	96	46	619	733	143	423	100	988	388	70	94	24
15	75	41	516	989	1990	382	94	1180	324	67	83	22
16	54	39	448	747	3970	352	90	628	276	64	75	28
17	47	39	461	626	2930	323	89	808	238	61	71	38
18	44	38	439	544	1600	298	87	2310	215	58	66	61
19	45	37	376	1260	1170	278	81	5630	197	56	61	38
20	52	36	339	1510	906	265	100	2730	193	53	61	33
21	61	36	304	962	757	260	324	1410	198	52	77	29
22	54	33	277	738	647	258	394	1010	187	60	56	25
23	51	35	254	618	574	242	251	774	164	58	51	23
24	60	34	231	530	507	223	208	647	166	90	48	22
25	48	31	211	462	453	203	197	558	154	403	45	20
26	43	30	193	410	415	189	171	509	143	267	43	22
27	39	455	177	374	380	182	146	488	132	169	42	23
28	36	2110	166	363	352	177	130	447	124	131	41	22
29	34	769	157	360	---	168	116	418	120	113	42	22
30	36	391	147	352	---	158	115	374	113	106	41	22
31	35	---	139	316	---	150	---	337	---	93	37	---
TOTAL	1395	4951	13365	17051	19521	11556	4231	25028	8953	3245	2680	856
MEAN	45.0	165	431	550	697	373	141	807	298	105	86.5	28.5
MAX	96	2110	2590	1510	3970	1340	394	5630	671	403	213	61
MIN	31	30	139	105	142	150	81	132	113	52	37	20
CFSM	.18	.68	1.77	2.25	2.86	1.53	.58	3.31	1.22	.43	.35	.12
IN.	.21	.75	2.04	2.60	2.98	1.76	.65	3.82	1.36	.49	.41	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

MEAN	57.1	208	458	563	701	738	557	409	197	146	91.5	95.0
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	160750		112832			
ANNUAL MEAN	440		309		350	
HIGHEST ANNUAL MEAN					738	1979
LOWEST ANNUAL MEAN					58.9	1941
HIGHEST DAILY MEAN	4910	Mar 28	5630	May 19	12100	May 7 1984
LOWEST DAILY MEAN	30	Nov 2	20	Sep 25	3.6	Oct 3 1941
ANNUAL SEVEN-DAY MINIMUM	32	Oct 30	22	Sep 24	7.0	Oct 24 1940
INSTANTANEOUS PEAK FLOW			6820	May 18	20200	May 7 1984
INSTANTANEOUS PEAK STAGE			15.49	May 18	22.45	May 7 1984
INSTANTANEOUS LOW FLOW			20	Sep 25	1.0	Oct 3 1941
ANNUAL RUNOFF (CFSM)	1.80		1.27		1.44	
ANNUAL RUNOFF (INCHES)	24.51		17.20		19.50	
10 PERCENT EXCEEDS	1090		657		827	
50 PERCENT EXCEEDS	154		153		135	
90 PERCENT EXCEEDS	36		33		27	

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: Jan. 7, 10, 11. 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. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	-14000	-21500	-24200	401	-33300	-24100	-464	1060	8230	-1740	-5310	-1450
2	-14300	-23800	-20800	-4040	-31000	-27800	2090	-2880	-3080	1190	-13100	629
3	-15400	-24200	-16800	-3380	-26100	-29400	214	6590	-917	-508	-8700	-2280
4	-16600	-23000	-23600	-8510	-20800	-25700	3830	5640	-6380	-2030	-9220	-4070
5	-18000	-18200	-19800	-9720	-18600	-24700	-4440	271	-30300	-10600	-9520	4100
6	-10600	-4350	-16000	-4710	-15900	-24900	-2050	722	-23600	-13100	195	-3950
7	-21500	-9450	-21300	14100	-19500	-13000	-108	6540	-1210	-11000	-14000	-3200
8	-19300	-21700	-25500	11600	-21600	-6040	-1790	-1190	-6340	1420	-21000	-1590
9	-6450	-23300	-22800	-1340	-24900	10100	-1150	1450	-14800	3520	-21100	-3350
10	-6470	-21000	-19800	-25400	-18900	21300	4300	15500	1140	6890	-22100	-3550
11	-15200	-25500	-11000	-29200	-12000	9590	-851	-51	1240	269	-25900	-3630
12	-5230	-28400	-3780	-34500	-15400	-4980	4780	3540	8830	337	-15200	-7360
13	-11200	-20900	-1730	-30400	-17000	-10600	10200	7320	6920	-1010	-2130	-3840
14	-18400	-13600	-9150	-28100	-19800	-15700	4350	6710	2480	935	-9440	-2430
15	-22900	-22100	-8850	-25700	-10200	-11800	3830	15400	2550	4240	-15500	-1050
16	-23900	-4280	-14900	-10400	17100	-11100	5930	18700	296	3590	-13900	-7830
17	-25700	-19700	-22700	-431	21000	-15800	3300	6240	3080	6990	-4940	-6330
18	-28700	-18600	-23700	-6590	12100	-22000	-2590	8400	8510	776	-4450	-17900
19	-27400	-17200	-25000	-11100	-2710	-25800	8620	28000	3020	-3550	1380	-25200
20	-26900	-12200	-30700	551	-13000	-23800	3190	11800	4650	-690	4630	-22400
21	-25200	-7190	-26200	2360	-12000	-16300	11800	1900	6810	13600	2570	-19500
22	-18400	-23200	-17500	2970	-11900	-17100	10100	921	7010	3540	1620	-18700
23	-10000	-26900	-12900	-3010	-7240	-14100	5780	13300	-3110	741	-3760	-16700
24	-19600	-16400	-5050	-12200	-6340	-7440	4670	30600	3330	-1290	-6220	-12400
25	-18200	4280	-1650	-21500	-5780	-9230	-4670	30400	4470	5590	-4390	-22300
26	-18200	1440	-4200	-25100	-1380	-2460	274	25700	-4370	6040	-6170	-24300
27	-17100	-2790	-13200	-26500	-7170	-6300	11200	23800	-1010	6580	-930	-23900
28	-18700	-5920	-8910	-27000	-15000	-2490	119	23100	-1490	1940	355	-22800
29	-19100	-4180	-4870	-28500	---	-4510	720	33600	4770	6900	-11000	-23600
30	-15200	-15900	-2090	-30400	---	-4220	1670	20900	2640	195	-2320	-18700
31	-18600	---	-100	-33900	---	-1430	---	14300	---	-4110	-3790	---
TOTAL	-546450	-469740	-458780	-409649	-337320	-361810	82854	358283	-16631	25655	-243340	-319581
MEAN	-17630	-15660	-14800	-13210	-12050	-11670	2762	11560	-554	828	-7850	-10650
MAX	-5230	4280	-100	14100	21000	21300	11800	33600	8830	13600	4630	4100
MIN	-28700	-28400	-30700	-34500	-33300	-29400	-4670	-2880	-30300	-13100	-25900	-25200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1995, BY WATER YEAR (WY)

MEAN	-8055	-10700	-10160	-7639	-8730	-6659	-1205	-5514	-5354	-7433	-7869	-6789
MAX	4584	3266	6337	19250	3980	8049	9814	11560	6507	4620	5562	1523
(WY)	1982	1982	1979	1991	1989	1989	1972	1995	1981	1966	1966	1966
MIN	-24200	-30180	-25820	-23210	-24390	-21560	-10380	-24140	-19220	-18440	-16570	-22440
(WY)	1976	1993	1972	1984	1987	1990	1991	1991	1991	1975	1979	1989

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1966 - 1995	
ANNUAL TOTAL	-3650051		-2696509			
ANNUAL MEAN	-10000		-7388		-7296	
HIGHEST ANNUAL MEAN					-849	1988
LOWEST ANNUAL MEAN					-13190	1990
HIGHEST DAILY MEAN	45500	Apr 13	33600	May 29	68300	Feb 23 1989
LOWEST DAILY MEAN	-38800	Jul 31	-34500	Jan 12	-48000	May 28 1974
ANNUAL SEVEN-DAY MINIMUM	-32100	Jul 30	-30100	Jan 27	-39200	Oct 10 1975
INSTANTANEOUS PEAK STAGE			62.68	May 31	70.34	May 11 1984
10 PERCENT EXCEEDS	8160		6910		6290	
50 PERCENT EXCEEDS	-11600		-5230		-6930	
90 PERCENT EXCEEDS	-25300		-24800		-22600	

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 mi^2.

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 Dycysburg 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 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26400	26900	50600	10200	48800	41700	6540	12000	38500	10100	22500	16000
2	26100	26500	50400	10800	45800	42600	6390	10500	38000	9990	29600	12600
3	26000	26200	50500	13800	45000	42300	6500	19100	52000	10700	29700	13000
4	26100	26400	50500	12300	44100	42200	8780	21300	63800	10100	30100	12100
5	25900	18100	50400	13100	43900	41600	8560	22300	62700	21600	16100	11100
6	14000	18400	49800	12500	33900	41000	7690	12600	49500	31500	21100	16100
7	26600	18600	49900	27800	38100	40700	6270	6660	38000	26700	30100	16300
8	26500	25700	49300	58800	37900	59500	5530	12800	38100	16000	32200	15900
9	15800	31900	49200	58800	31600	91900	5930	11600	38400	15200	35600	16300
10	20100	33300	49200	57400	29900	94200	5630	10900	25300	10800	37100	15200
11	26300	36300	49000	56500	25800	94700	5770	31600	24800	9490	34900	14100
12	10600	35600	49200	56300	24100	97300	5590	33600	12500	10100	33000	14100
13	25400	32800	48700	57000	22500	87600	6160	20000	12700	15800	32600	15100
14	38400	32800	51500	57700	26500	66800	6470	22300	11700	16600	30900	14200
15	39100	31900	52700	58500	32700	60200	5290	45300	11500	12900	31400	14400
16	39200	5730	53400	62100	44000	61000	5340	54700	12000	14600	32600	22100
17	38400	37800	54400	65500	51700	60200	5310	55600	5930	10400	29800	23500
18	39000	38600	55300	65000	53200	60500	4200	55400	6680	8610	29000	34500
19	38500	36700	56200	65000	53800	59700	5500	77100	6120	11500	17400	32500
20	39000	22400	56300	58900	53000	48000	4700	101000	10900	12200	17100	32400
21	39100	36800	43400	52000	53700	40700	4230	107000	8330	5450	14500	32700
22	26600	37900	33000	52100	53000	41100	6500	75400	10800	10000	15700	33000
23	20300	37500	33500	52100	53900	41800	6660	27600	19400	8760	19500	22400
24	26200	9530	21300	53200	51100	41000	9800	6300	7870	8540	19700	22700
25	26000	8590	19300	52500	45600	24300	17400	6340	7330	11000	19100	32900
26	26200	6200	19500	53000	47000	21600	17200	6400	17600	11900	16300	35300
27	26000	6120	20500	51300	42700	21800	14700	6320	19400	19600	15300	37000
28	26400	43600	18800	53700	40900	18200	14800	2100	18400	20100	15000	34600
29	26500	51600	19400	54200	---	10400	7180	1290	10100	12700	14600	27700
30	26800	50700	18500	54200	---	9170	7410	12700	9340	18900	15100	20300
31	26700	---	10000	49600	---	10100	---	32600	---	19000	15800	---
TOTAL	864200	851170	1283700	1455900	1174200	1513870	228030	920410	687700	430840	753400	660100
MEAN	27880	28370	41410	46960	41940	48830	7601	29690	22920	13900	24300	22000
MAX	39200	51600	56300	65500	53900	97300	17400	107000	63800	31500	37100	37000
MIN	10600	5730	10000	10200	22500	9170	4200	1290	5930	5450	14500	11100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1995, BY WATER YEAR (WY)

MEAN	21530	30720	49390	55340	56370	53650	40500	38360	28460	25500	24910	21140
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	198

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1966 - 1995	
ANNUAL TOTAL	19811850		10823520			
ANNUAL MEAN	54280		29650		37090	
HIGHEST ANNUAL MEAN					56740	1973
LOWEST ANNUAL MEAN					14900	1988
HIGHEST DAILY MEAN	155000	Mar 30	107000	May 21	202000	Mar 16 1975
LOWEST DAILY MEAN	5730	Nov 16	1290	May 29	50	Oct 30 1965
ANNUAL SEVEN-DAY MINIMUM	15000	May 22	4940	Apr 15	3090	Apr 23 1986
INSTANTANEOUS PEAK FLOW					209000	Mar 16 1975
INSTANTANEOUS PEAK STAGE			37.36	May 21	49.04	Mar 30 1975
10 PERCENT EXCEEDS	118000		54900		67000	
50 PERCENT EXCEEDS	40900		26200		31500	
90 PERCENT EXCEEDS	19400		7380		8010	

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 mi^2.

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: Nov. 23, 24, Nov. 30 to Dec. 2, Dec. 11-14, 18-20, 25-28, Jan. 1-10, 20-26, 30, 31, Feb. 5-20, Mar. 8-11 and May 1-3. Records fair except for periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	5.1	11	38	25	45	35	22	560	31	22	15	5.4
2	5.0	11	32	19	43	32	23	500	29	17	14	5.1
3	5.2	12	28	18	40	31	22	200	144	16	14	4.9
4	5.6	12	36	16	35	30	22	116	44	29	15	4.6
5	5.2	30	36	14	30	69	20	82	29	57	3530	5.0
6	5.8	54	29	535	29	155	22	60	56	27	3180	5.5
7	5.5	24	26	1900	28	201	22	49	151	22	159	5.1
8	5.3	15	22	550	28	100	22	41	43	19	338	5.5
9	16	16	214	130	27	260	21	38	29	19	261	6.1
10	7.5	68	3770	82	26	150	21	32	28	19	310	4.9
11	5.1	31	1300	102	25	100	24	30	28	16	3030	6.5
12	9.5	19	400	124	25	77	26	28	36	16	289	5.9
13	63	16	180	89	24	69	26	27	26	16	123	6.1
14	17	16	90	1750	120	56	25	164	22	15	77	5.8
15	10	16	75	416	500	52	24	98	21	14	78	5.5
16	8.0	16	161	195	800	45	23	263	20	14	51	9.9
17	7.2	16	330	126	500	40	24	137	18	15	34	8.9
18	12	15	160	102	300	37	29	1620	16	15	27	5.9
19	27	15	78	1010	200	34	28	933	16	16	20	5.6
20	13	18	60	450	140	34	592	285	19	16	16	5.6
21	11	85	42	240	98	32	408	156	172	23	15	5.5
22	43	36	45	170	77	30	109	107	26	32	13	5.9
23	17	25	55	120	67	30	87	82	21	62	11	5.6
24	12	22	43	85	53	27	116	65	103	82	8.8	5.2
25	11	23	35	68	44	26	61	53	30	333	8.1	5.0
26	10	21	30	58	42	25	40	45	21	41	7.9	5.9
27	10	836	28	54	42	34	32	103	18	101	6.4	6.6
28	11	1050	26	68	39	29	30	89	17	26	5.9	7.6
29	11	115	24	65	---	25	26	57	50	18	5.9	9.2
30	10	60	20	54	---	23	156	39	90	15	5.2	7.5
31	10	---	22	48	---	24	---	33	---	15	5.3	---
TOTAL	394.0	2704	7435	8683	3427	1912	2103	6092	1354	1148	11673.5	181.8
MEAN	12.7	90.1	240	280	122	61.7	70.1	197	45.1	37.0	377	6.06
MAX	63	1050	3770	1900	800	260	592	1620	172	333	3530	9.9
MIN	5.0	11	20	14	24	23	20	27	16	14	5.2	4.6
CFSM	.09	.67	1.79	2.09	.91	.46	.52	1.47	.34	.28	2.81	.05
IN.	.11	.75	2.06	2.41	.95	.53	.58	1.69	.38	.32	3.24	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1995, BY WATER YEAR (WY)

MEAN	52.7	192	401	235	498	236	233	212	80.5	60.6	47.9	14.9
MAX	205	684	1065	550	1693	576	623	925	243	264	377	36.0
(WY)	1986	1989	1983	1988	1989	1984	1983	1983	1989	1989	1995	1990
MIN	2.96	23.1	43.6	27.4	109	61.7	21.6	12.4	3.88	4.95	2.40	2.36
(WY)	1988	1988	1993	1987	1983	1995	1986	1988	1988	1986	1983	1983

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1983 - 1995	
ANNUAL TOTAL	75553.2		47107.3			
ANNUAL MEAN	207		129		187	
HIGHEST ANNUAL MEAN					367	1989
LOWEST ANNUAL MEAN					69.8	1987
HIGHEST DAILY MEAN	5620	Mar 27	3770	Dec 10	11200	Feb 14 1989
LOWEST DAILY MEAN	4.5	Sep 11	4.6	Sep 4	1.6	Aug 29 1983
ANNUAL SEVEN-DAY MINIMUM	4.8	Sep 10	5.1	Aug 30	1.7	Aug 31 1983
INSTANTANEOUS PEAK FLOW			6260	Aug 6	16000	Dec 25 1982
INSTANTANEOUS PEAK STAGE			14.76	Aug 6	17.40	Dec 25 1982
ANNUAL RUNOFF (CFSM)	1.54		.96		1.40	
ANNUAL RUNOFF (INCHES)	20.97		13.08		18.95	
10 PERCENT EXCEEDS	421		206		339	
50 PERCENT EXCEEDS	36		29		29	
90 PERCENT EXCEEDS	6.1		6.3		4.9	

MASSAC CREEK BASIN

03611260 MASSAC CREEK NEAR PADUCAH, KY

LOCATION.--Lat 37°02'29", long 88°42'39", McCracken County, Hyrologic Unit 05140206, on left upstream wingwall of bridge 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 mi^2.

PERIOD OF RECORD.--October 1971 to current year.

REVISED RECORDS.--1983 (M), 1984 (M).

GAGE.--Water-stage recorder. Datum of gage is 345.53 ft above sea level.

REMARKS.--Estimated daily discharges: Feb. 6-10, Mar. 2-9, Apr. 20-21, Mar. 1, 18, and Aug. 5. Records fair except for periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	.56	.89	2.5	2.7	5.1	3.1	3.1	316	1.6	1.6	1.0	.66
2	.59	.89	2.3	2.4	4.4	2.6	3.1	40	1.5	1.4	.98	.67
3	.61	.89	2.3	2.4	4.1	2.4	3.2	14	1.4	1.4	.96	.67
4	.57	1.0	2.3	2.3	3.9	2.0	3.1	9.8	1.3	1.5	1.8	.68
5	.57	10	2.3	2.3	3.5	53	2.9	6.5	1.2	1.9	309	.68
6	.59	2.5	2.1	51	3.3	33	3.0	4.4	1.2	1.3	20	.68
7	.62	.96	2.1	23	3.5	68	2.9	3.5	1.2	1.2	5.5	.68
8	.88	.88	2.0	7.0	3.3	30	2.8	2.9	1.1	1.2	24	.72
9	1.1	1.5	223	4.9	3.4	17	2.8	2.8	1.0	1.2	4.5	.75
10	.60	1.4	216	4.2	3.5	11	2.8	2.0	.97	1.1	2.2	.72
11	.61	.97	29	12	3.3	8.4	2.9	1.8	1.4	1.0	1.8	.73
12	1.0	.91	11	7.2	2.9	7.2	2.8	1.7	1.5	1.0	1.6	.74
13	1.5	.89	6.4	10	2.9	6.5	2.7	1.7	.98	.91	1.5	.77
14	.80	.91	5.0	191	83	5.5	2.7	2.4	.89	.87	1.3	.79
15	.74	3.9	4.3	26	461	4.6	2.7	1.4	.86	.83	1.3	.74
16	.69	5.8	38	13	232	4.4	2.7	3.8	.83	.80	1.2	6.0
17	.72	1.6	20	39	41	4.1	2.8	1.9	.79	.79	1.0	.71
18	.93	1.2	7.2	174	25	4.2	2.7	131	.75	.76	.91	.62
19	13	1.0	4.8	227	17	3.9	2.6	15	.77	.76	.92	.62
20	.89	1.1	4.3	40	12	4.3	128	5.8	.97	1.0	.87	.64
21	.66	15	3.9	19	7.4	4.0	118	4.0	33	1.1	.85	.64
22	.84	1.6	4.2	11	6.0	3.9	14	3.3	1.2	18	.83	.62
23	.76	1.2	3.6	7.4	5.1	3.8	86	2.7	7.9	13	.83	.62
24	.78	1.1	3.3	5.5	3.6	3.7	32	2.4	1.5	10	.80	.63
25	.81	1.1	3.1	5.1	3.3	3.5	12	2.4	39	16	.75	.70
26	.82	1.1	2.9	4.5	3.0	3.5	7.2	8.4	22	5.7	.75	.71
27	.79	97	2.8	5.6	6.2	4.3	4.9	19	2.2	1.6	.73	.68
28	.82	14	2.7	51	4.5	3.4	3.4	3.3	1.5	4.1	.78	.68
29	.89	3.8	2.7	16	---	3.3	3.0	2.1	37	1.7	.67	.68
30	.89	2.8	2.7	7.6	---	3.2	6.0	1.8	2.4	1.2	.67	.69
31	.90	---	2.8	5.7	---	3.1	---	1.6	---	1.1	.68	---
TOTAL	36.53	177.89	621.6	979.8	957.2	314.9	468.8	619.4	169.91	96.02	390.68	25.92
MEAN	1.18	5.93	20.1	31.6	34.2	10.2	15.6	20.0	5.66	3.10	12.6	.86
MAX	13	97	223	227	461	68	128	316	39	18	309	6.0
MIN	.56	.88	2.0	2.3	2.9	2.0	2.6	1.4	.75	.76	.67	.62
CFSM	.08	.41	1.37	2.16	2.34	.70	1.07	1.37	.39	.21	.86	.06
IN.	.09	.45	1.58	2.50	2.44	.80	1.19	1.58	.43	.24	1.00	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1995, BY WATER YEAR (WY)

MEAN	3.23	14.3	29.2	22.1	39.0	30.0	32.2	16.8	7.46	8.88	2.99	4.38
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	1977	1987	1986	1992	1972	1974	1980	1976

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1972 - 1995	
ANNUAL TOTAL	5219.04		4858.65			
ANNUAL MEAN	14.3		13.3		17.4	
HIGHEST ANNUAL MEAN					37.9	1979
LOWEST ANNUAL MEAN					6.53	1987
HIGHEST DAILY MEAN	417	Jan 25	461	Feb 15	1780	Feb 13 1989
LOWEST DAILY MEAN	.56	Oct 1	.56	Oct 1	.09	Nov 13 1971
ANNUAL SEVEN-DAY MINIMUM	.58	Sep 29	.59	Oct 1	.10	Nov 10 1971
INSTANTANEOUS PEAK FLOW			1130	May 1	5990	Sep 5 1985
INSTANTANEOUS PEAK STAGE			9.75	May 1	15.86	Sep 5 1985
INSTANTANEOUS LOW FLOW					.06	Nov 14 1971
ANNUAL RUNOFF (CFSM)	.98		.91		1.19	
ANNUAL RUNOFF (INCHES)	13.30		12.38		16.21	
10 PERCENT EXCEEDS	27		21		29	
50 PERCENT EXCEEDS	2.0		2.5		2.2	
90 PERCENT EXCEEDS	.66		.72		.40	

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 mi^2, approximately.

PERIOD OF RECORD.--January 1928 to current year. Prior to April 1928 monthly discharge only, published in WSP 1305. Gage-height records collected 9.6 mi upstream at Paducah since 1890 are contained in reports of National Weather Service. Occasional discharge measurements 1881 to 1924 in reports of Mississippi River Commission.

GAGE.--Water-stage recorder. Datum of gage is 276.27 ft above 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: Jan. 2-7. Records fair except those below 100,000 ft^3/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. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	113000	102000	274000	104000	351000	309000	132000	247000	741000	186000	120000	82100
2	106000	98400	282000	100000	340000	291000	133000	256000	689000	196000	111000	82200
3	113000	110000	274000	93500	304000	285000	131000	260000	640000	200000	115000	74600
4	119000	141000	256000	96700	276000	301000	116000	273000	595000	195000	124000	70000
5	122000	146000	239000	105000	265000	323000	103000	297000	552000	213000	117000	70200
6	114000	137000	272000	120000	263000	352000	106000	303000	507000	232000	139000	72600
7	117000	115000	287000	153000	264000	399000	107000	304000	465000	203000	206000	76400
8	105000	131000	297000	206000	270000	453000	109000	289000	449000	168000	238000	68100
9	78600	140000	332000	243000	265000	549000	114000	268000	427000	141000	272000	75200
10	91400	150000	351000	286000	223000	663000	120000	261000	380000	136000	299000	83300
11	96400	170000	385000	312000	190000	721000	126000	281000	334000	119000	312000	70300
12	80400	174000	401000	314000	185000	759000	129000	299000	315000	131000	302000	69700
13	89000	161000	443000	297000	175000	777000	140000	305000	307000	112000	289000	69500
14	111000	139000	474000	294000	159000	752000	167000	333000	305000	119000	266000	67200
15	110000	144000	482000	297000	188000	741000	168000	396000	315000	113000	245000	81900
16	116000	146000	460000	312000	256000	732000	183000	442000	331000	99400	202000	95100
17	130000	146000	385000	420000	381000	709000	189000	491000	327000	93600	165000	82500
18	128000	166000	342000	503000	476000	652000	191000	552000	295000	103000	139000	112000
19	127000	153000	296000	598000	521000	571000	185000	596000	211000	102000	139000	124000
20	130000	117000	274000	649000	555000	486000	175000	675000	180000	107000	98600	97300
21	134000	115000	253000	672000	588000	374000	218000	756000	175000	106000	118000	110000
22	130000	132000	227000	689000	626000	309000	244000	792000	169000	81800	113000	118000
23	117000	135000	210000	694000	633000	278000	271000	786000	175000	79200	120000	101000
24	104000	123000	177000	671000	598000	252000	315000	766000	146000	91000	109000	88200
25	116000	115000	149000	626000	519000	224000	327000	789000	154000	94300	93000	105000
26	117000	113000	151000	583000	464000	197000	332000	808000	166000	94400	86700	116000
27	113000	112000	151000	540000	412000	197000	334000	821000	179000	104000	87900	109000
28	112000	149000	135000	485000	345000	196000	332000	818000	180000	108000	88700	111000
29	116000	194000	123000	425000	---	181000	296000	798000	171000	118000	74600	95600
30	113000	243000	118000	373000	---	149000	259000	784000	173000	132000	88300	80100
31	107000	---	105000	358000	---	133000	---	767000	---	145000	93400	---
TOTAL	3475800	4217400	8605000	11619200	10092000	13315000	5752000	15813000	10053000	4122700	4971200	2658100
MEAN	112100	140600	277600	374800	360400	429500	191700	510100	335100	133000	160400	88600
MAX	134000	243000	482000	694000	633000	777000	334000	821000	741000	232000	312000	124000
MIN	78600	98400	105000	93500	159000	133000	103000	247000	146000	79200	74600	67200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1995, BY WATER YEAR (WY)

MEAN	101800	163600	290300	397900	468300	521800	462600	330900	209500	151500	120900	99420
MAX	335600	450300	717500	1022000	1217000	967300	896400	917800	492800	441200	331100	383500
(WY)	1980	1986	1973	1937	1937	1945	1994	1983	1928	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1928 - 1995	
ANNUAL TOTAL	131696500		94694400			
ANNUAL MEAN	360800		259400		274800	
HIGHEST ANNUAL MEAN					436600	1979
LOWEST ANNUAL MEAN					120300	1931
HIGHEST DAILY MEAN	965000	Apr 24	821000	May 27	1850000	Feb 1 1937
LOWEST DAILY MEAN	60000	Sep 25	67200	Sep 14	15000	Jul 20 1930
ANNUAL SEVEN-DAY MINIMUM	85600	Sep 20	71900	Sep 8	16600	Jul 20 1930
INSTANTANEOUS PEAK FLOW			829000	May 27	1850000	Feb 1 1937
INSTANTANEOUS PEAK STAGE			53.54	May 27	66.60	Feb 2 1937
10 PERCENT EXCEEDS	861000		591000		635000	
50 PERCENT EXCEEDS	191000		185000		188000	
90 PERCENT EXCEEDS	111000		94800		67100	

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 mi^2.

PERIOD OF RECORD.--October 1990 to November 1991, June 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 366.06 ft above sea level (levels by U.S. Department of Energy).

REMARKS.--Estimated daily discharges: Feb. 7-11. Records fair except for period of estimated record, which is poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	.12	.33	.13	.15	1.4	.94	.26	160	.53	.79	.08	.18
2	.13	.33	.12	.12	1.1	.62	.23	8.8	.42	.36	.09	.17
3	.13	.34	.13	.12	.94	.63	.20	3.7	.29	.40	.11	.30
4	.13	.51	.14	.11	.97	.59	.23	2.6	.17	6.8	10	.28
5	.14	1.9	.15	.10	.68	24	.23	1.9	.14	5.8	147	.26
6	.15	1.8	.12	3.7	.46	12	.27	1.4	.22	1.3	2.6	.28
7	.15	.28	.17	3.0	.42	35	.22	1.1	.20	.60	.86	.27
8	.23	.16	.22	1.1	.40	8.5	.20	.88	.25	.33	.80	.32
9	.38	.31	47	.64	.30	3.8	.16	34	.56	.24	.45	.28
10	.19	.36	48	.41	.38	2.6	.15	3.1	.44	.19	.36	.29
11	.19	.29	3.8	.45	.44	2.0	.23	1.6	1.0	.15	.33	.23
12	.40	.33	1.3	.38	.42	1.6	.19	1.3	1.3	.14	.33	.27
13	.43	.31	.72	1.5	.27	1.3	.11	2.9	.23	.13	.34	.25
14	.23	.35	.38	44	48	1.1	.10	1.7	.15	.14	.35	.24
15	.22	1.3	.25	3.4	167	.88	.11	.83	.12	.13	.34	.24
16	.21	2.1	2.2	1.5	78	.66	.10	9.3	.13	.15	.30	.92
17	.18	.58	2.3	13	7.5	.52	.10	2.9	.09	.15	.30	.36
18	.24	.26	.88	87	4.2	.42	.10	165	.10	.17	.28	.18
19	4.2	.13	.38	44	3.1	.34	.08	9.1	.11	.15	.23	.17
20	.38	.24	.29	6.7	2.3	.47	102	2.7	.18	.15	.25	.24
21	.11	4.8	.19	3.0	1.8	.36	37	1.3	20	.20	.28	.22
22	.19	.34	.21	1.7	1.4	.30	3.3	.72	.79	.24	.25	.25
23	.17	.12	.20	1.3	1.3	.26	30	.31	69	1.3	.25	.24
24	.20	.11	.15	.90	.93	.20	8.0	.12	5.7	1.8	.29	.26
25	.19	.14	.15	.78	.71	.15	3.2	.07	6.4	11	.33	.28
26	.28	.15	.14	.63	.93	.15	1.8	13	6.9	.59	.27	.31
27	.24	3.7	.13	.89	.99	.49	1.3	75	1.1	.21	.25	.33
28	.30	1.5	.13	44	1.4	.31	.97	3.1	.38	.13	.21	.34
29	.25	.34	.12	5.8	---	.27	.73	1.5	24	.11	.19	.29
30	.25	.18	.12	2.6	---	.24	1.2	1.1	2.1	.09	.18	.29
31	.26	---	.14	1.7	---	.23	---	.62	---	.08	.18	---
TOTAL	10.87	23.59	110.36	274.68	327.74	100.93	192.77	511.65	143.00	34.02	168.08	8.54
MEAN	.35	.79	3.56	8.86	11.7	3.26	6.43	16.5	4.77	1.10	5.42	.28
MAX	4.2	4.8	48	87	167	35	102	165	69	11	147	.92
MIN	.11	.11	.12	.10	.27	.15	.08	.07	.09	.08	.08	.17
CFSM	.05	.12	.54	1.35	1.79	.50	.98	2.52	.73	.17	.83	.04
IN.	.06	.13	.63	1.56	1.86	.57	1.09	2.91	.81	.19	.95	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

MEAN	.77	4.24	16.4	11.9	13.4	8.17	9.31	10.1	2.37	.46	1.54	.76
MAX	1.72	14.9	37.2	13.6	15.6	11.3	16.6	16.5	4.77	1.10	5.42	2.11
(WY)	1991	1994	1991	1994	1991	1991	1994	1995	1995	1995	1995	1993
MIN	.35	.45	3.56	8.86	11.7	3.26	4.90	.56	.17	.089	.12	.28
(WY)	1995	1991	1995	1995	1995	1995	1991	1994	1994	1993	1993	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1991 - 1995	
ANNUAL TOTAL	1780.87		1906.23			
ANNUAL MEAN	4.88		5.22		6.65	
HIGHEST ANNUAL MEAN					8.28	1991
LOWEST ANNUAL MEAN					5.22	1995
HIGHEST DAILY MEAN	182	Jan 25	167	Feb 15	478	Dec 21 1990
LOWEST DAILY MEAN	.08	Jun 15	.07	May 25	.05	Sep 7 1991
ANNUAL SEVEN-DAY MINIMUM	.09	Jun 14	.10	Jul 28	.06	Jul 2 1993
INSTANTANEOUS PEAK FLOW			1140	May 18	1820	May 12 1991
INSTANTANEOUS PEAK STAGE			5.41	May 18	8.45	May 12 1991
ANNUAL RUNOFF (CFSM)	.74		.80		1.02	
ANNUAL RUNOFF (INCHES)	10.11		10.83		13.80	
10 PERCENT EXCEEDS	4.8		6.5		5.3	
50 PERCENT EXCEEDS	.29		.33		.36	
90 PERCENT EXCEEDS	.12		.13		.11	

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 mi^2.

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: Nov. 30 to Dec. 8, Jan. 3-5, 9-12, and Feb. 7-9. Records fair except for periods of estimated record, which are poor. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	8.2	13	9.2	12	9.3	11	6.6	290	6.4	8.9	7.3	5.9
2	7.8	12	8.8	11	8.1	11	6.5	32	7.6	8.0	6.0	5.8
3	7.9	14	8.6	10	7.3	9.4	6.2	14	7.3	8.3	6.0	5.1
4	10	20	8.2	9.0	7.3	8.3	9.1	12	6.7	24	23	6.8
5	9.1	36	7.8	8.0	6.8	63	10	10	7.2	27	309	7.5
6	7.9	20	7.4	30	6.4	36	9.4	10	7.6	9.6	12	6.5
7	4.9	12	8.0	23	6.2	100	9.0	9.5	6.3	8.4	6.2	6.0
8	8.5	15	10	12	6.0	30	9.7	9.2	8.2	8.2	5.7	6.0
9	11	23	168	10	5.8	15	9.9	79	8.8	7.5	5.1	6.0
10	8.2	23	160	9.0	6.0	12	10	12	7.4	7.3	5.2	5.5
11	8.1	20	22	8.0	6.2	11	14	9.7	12	5.7	4.6	5.4
12	14	19	11	9.0	6.2	9.6	13	9.0	9.2	5.4	5.8	5.5
13	14	17	9.7	16	6.2	8.5	12	29	5.7	5.0	6.2	5.6
14	9.5	16	7.5	138	43	8.2	12	12	5.6	5.3	6.0	6.3
15	7.9	25	6.8	15	415	8.3	13	9.5	5.5	4.1	5.6	6.3
16	7.5	23	14	9.1	234	7.9	14	21	5.3	4.4	4.0	18
17	7.6	8.0	11	31	29	7.6	15	13	5.2	5.3	5.1	7.7
18	9.1	6.2	7.7	216	18	7.5	16	283	5.6	4.8	7.1	6.8
19	31	7.8	7.1	129	14	7.0	16	33	5.6	4.4	8.8	6.5
20	9.1	5.5	5.6	28	11	8.2	169	13	6.4	4.5	8.3	6.1
21	8.6	20	5.4	15	10	7.7	169	10	104	5.1	8.1	5.8
22	9.4	6.6	5.7	12	10	7.7	21	8.8	8.6	7.6	6.5	5.6
23	9.2	7.9	7.8	9.8	10	7.5	116	6.2	208	16	7.1	5.6
24	9.6	7.2	7.8	9.0	9.1	6.8	35	5.5	37	12	7.2	5.8
25	10	7.9	6.6	8.4	8.2	6.1	19	5.1	20	32	7.0	5.8
26	9.7	9.6	6.6	7.8	8.6	6.3	15	9.7	31	9.5	7.0	5.9
27	9.2	28	6.8	8.5	10	11	14	157	10	8.8	7.0	8.8
28	9.2	15	10	130	10	8.7	12	14	7.2	8.7	6.9	8.3
29	9.8	10	11	22	---	8.3	11	11	104	8.2	6.0	7.8
30	9.7	9.4	11	13	---	7.3	12	8.7	12	8.1	6.2	6.9
31	11	---	11	10	---	6.7	---	7.1	---	7.9	6.1	---
TOTAL	306.7	457.1	588.1	978.6	927.7	463.6	804.4	1153.0	681.4	290.0	522.1	201.6
MEAN	9.89	15.2	19.0	31.6	33.1	15.0	26.8	37.2	22.7	9.35	16.8	6.72
MAX	31	36	168	216	415	100	169	290	208	32	309	18
MIN	4.9	5.5	5.4	7.8	5.8	6.1	6.2	5.1	5.2	4.1	4.0	5.1
CFSM	.66	1.02	1.27	2.12	2.22	1.00	1.80	2.50	1.52	.63	1.13	.45
IN.	.77	1.14	1.47	2.44	2.32	1.16	2.01	2.88	1.70	.72	1.30	.50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

MEAN	7.98	16.2	35.1	34.4	34.3	24.4	28.3	24.2	14.4	7.40	9.32	7.96
MAX	9.89	36.2	60.7	39.2	37.9	30.6	41.0	37.2	22.7	9.35	16.8	12.6
(WY)	1995	1994	1991	1994	1991	1994	1994	1995	1995	1995	1995	1993
MIN	5.79	5.76	19.0	31.6	32.0	15.0	17.2	9.30	7.56	6.37	6.51	5.70
(WY)	1992	1991	1995	1995	1994	1995	1991	1994	1991	1994	1993	1991

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1991 - 1995	
ANNUAL TOTAL	6829.6		7374.3			
ANNUAL MEAN	18.7		20.2		20.4	
HIGHEST ANNUAL MEAN					20.8	1994
LOWEST ANNUAL MEAN					20.2	1991
HIGHEST DAILY MEAN	391	Jan 25	415	Feb 15	592	Dec 21 1990
LOWEST DAILY MEAN	2.0	Sep 3	4.0	Aug 16	2.0	Sep 3 1994
ANNUAL SEVEN-DAY MINIMUM	3.1	Sep 7	4.7	Jul 15	3.1	Sep 7 1994
INSTANTANEOUS PEAK FLOW			1220	Jun 23	1490	Nov 17 1993
INSTANTANEOUS PEAK STAGE			10.41	Jun 23	11.70	Nov 17 1993
ANNUAL RUNOFF (CFSM)	1.26		1.36		1.37	
ANNUAL RUNOFF (INCHES)	17.05		18.41		18.61	
10 PERCENT EXCEEDS	23		28		23	
50 PERCENT EXCEEDS	8.9		8.8		8.1	
90 PERCENT EXCEEDS	5.6		5.7		4.8	

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 mi^2.

PERIOD OF RECORD.--October 1990 to November 1991, June 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 324.80 ft above sea level (levels by U.S. Department of Energy).

REMARKS.--Estimated daily discharges: Jan. 3-5, Feb. 7-10 and May 23 to June 2. Records fair except for periods of estimated record, which are poor. Some regulation from Paducah Gaseous Diffusion Plant, 0.4 mi upstream. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	.57	4.4	.56	.62	1.9	1.6	1.3	102	1.2	1.4	1.3	1.1
2	.58	4.8	.54	.61	1.6	1.6	1.1	16	1.1	1.2	1.1	1.1
3	.75	5.4	.55	.52	1.4	1.7	1.2	4.0	1.0	1.3	.95	1.1
4	.71	6.9	.56	.48	1.5	1.4	1.3	2.1	1.3	4.8	1.5	1.1
5	.70	10	.56	.42	1.4	20	1.2	1.7	1.3	5.5	69	1.1
6	.77	2.3	.56	5.0	1.2	16	1.2	1.4	1.3	1.5	3.3	1.1
7	.90	.74	.73	3.3	1.1	26	1.2	1.3	1.5	1.4	1.3	1.1
8	1.5	.97	.62	1.5	1.1	14	1.2	1.3	1.5	1.3	1.1	1.1
9	3.2	1.7	34	1.0	1.0	5.0	1.2	26	2.7	1.4	1.0	1.1
10	.96	1.9	42	.89	1.2	3.0	1.1	3.4	1.7	1.3	1.1	1.1
11	.86	1.5	7.2	.84	1.3	2.1	1.5	1.5	3.3	1.3	1.2	1.1
12	2.1	1.3	1.4	.85	.92	1.8	1.7	1.3	2.6	1.3	.92	1.1
13	4.2	1.2	1.0	.94	.92	1.5	1.2	11	1.5	1.3	.97	1.0
14	.97	1.4	.90	35	10	1.4	1.1	3.4	1.6	1.3	1.0	1.0
15	.85	5.7	.82	5.4	138	1.3	1.1	1.6	1.3	1.4	1.1	1.0
16	.92	4.2	3.4	1.9	81	1.2	1.1	5.5	1.3	1.4	1.0	6.3
17	.93	.91	2.3	5.8	13	1.2	1.2	4.1	1.3	1.4	1.0	.98
18	1.5	.78	1.0	63	5.7	1.1	1.4	106	1.3	1.7	1.0	.79
19	11	.68	.83	52	3.3	1.1	1.4	14	1.4	1.5	1.1	.78
20	.88	.73	.76	12	2.2	1.3	65	2.7	1.4	1.5	1.1	.79
21	.68	6.9	.71	4.7	1.7	1.3	96	1.4	17	1.7	1.0	.76
22	.76	.77	.71	2.4	1.3	1.1	5.3	1.0	1.8	1.6	1.0	.72
23	.89	.60	.67	1.7	1.4	1.1	31	.40	8.8	4.4	.98	.73
24	.78	.53	.65	1.5	2.0	1.1	15	.10	8.2	4.2	.99	.75
25	1.1	.51	.64	1.3	1.3	1.1	3.3	.02	1.8	9.1	1.0	.77
26	1.8	.50	.64	1.1	1.2	1.1	1.7	5.0	3.6	1.7	1.1	.77
27	2.1	5.6	.65	1.3	1.8	2.0	1.6	80	1.5	1.6	1.0	.78
28	1.8	1.6	.73	24	1.9	1.2	1.5	5.0	1.6	1.4	1.0	.80
29	2.1	.75	.84	9.1	---	1.1	1.4	3.0	18	1.4	1.1	.81
30	2.4	.60	.71	3.6	---	1.1	2.2	2.0	2.3	1.3	1.1	.81
31	3.1	---	.59	2.1	---	1.1	---	1.3	---	1.3	1.1	---
TOTAL	52.36	75.87	107.83	244.87	282.34	117.6	247.7	409.52	96.2	64.9	103.41	33.54
MEAN	1.69	2.53	3.48	7.90	10.1	3.79	8.26	13.2	3.21	2.09	3.34	1.12
MAX	11	10	42	63	138	26	96	106	18	9.1	69	6.3
MIN	.57	.50	.54	.42	.92	1.1	1.1	.02	1.0	1.2	.92	.72
CFSM	.	29	.44	.60	1.37	1.74	.66	1.43	2.29	.55	.36	.58.19
IN.	34	.49	.69	1.58	1.82	.76	1.59	2.64	.62	.42	.67	.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

MEAN	2.03	5.33	15.1	13.0	12.7	8.43	11.0	7.71	2.28	1.28	1.64	1.70
MAX	3.11	16.0	33.5	17.9	17.0	12.0	19.2	13.2	3.69	2.09	3.34	2.98
(WY)	1991	1994	1991	1991	1991	1994	1994	1995	1993	1995	1995	1993
MIN	1.37	1.33	3.48	7.90	10.1	3.79	5.62	1.48	1.04	.82	.96	1.12
(WY)	1992	1992	1995	1995	1995	1995	1991	1994	1994	1991	1991	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1991 - 1995	
ANNUAL TOTAL	2096.40		1836.14			
ANNUAL MEAN	5.74		5.03		6.90	
HIGHEST ANNUAL MEAN					8.40	1991
LOWEST ANNUAL MEAN					5.03	1995
HIGHEST DAILY MEAN	139	Jan 25	138	Feb 15	292	Dec 21 1990
LOWEST DAILY MEAN	.50	Sep 30	.02	May 25	.02	May 25 1995
ANNUAL SEVEN-DAY MINIMUM	.55	Sep 26	.56	Nov 30	.43	Sep 25 1991
INSTANTANEOUS PEAK FLOW			607	Apr 20	842	Nov 17 1993
INSTANTANEOUS PEAK STAGE			7.48	Apr 20	8.56	Nov 17 1993
ANNUAL RUNOFF (CFSM)	.99		.87		1.19	
ANNUAL RUNOFF (INCHES)	13.49		11.82		16.23	
10 PERCENT EXCEEDS	8.2		7.0		9.1	
50 PERCENT EXCEEDS	1.2		1.3		1.1	
90 PERCENT EXCEEDS	.72		.73		.68	

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 mi^2, approximately.

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

PERIOD OF DAILY RECORD.--

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

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

REMARKS.--Records of daily discharge are published for station at Metropolis, IL, (station 03611500). Flow regulated by many 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 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)
OCT											
25...	1041	100000	168	6.7	18.0	7.0	8.1	--	58	23	86
DEC											
06...	1102	300000	270	7.7	11.5	14	10.5	96	46	110	96
FEB											
16...	1020	237000	250	7.2	3.0	53	12.8	94	770	K230	91
APR											
05...	1120	102000	335	7.2	12.5	5.8	10.4	97	K8	K4	140
JUN											
06...	1103	520000	293	7.2	23.0	21	6.4	75	K21	K26	130

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS TOT FET FIELD MG/L AS CACO3	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO4)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
OCT											
25...	24	6.3	11	2.1	--	12	27	0.10	5.6	123	0.040
DEC											
06...	28	6.4	12	2.6	48	14	36	0.10	4.9	155	0.020
FEB											
16...	27	5.8	8.9	2.0	--	12	24	0.10	4.9	148	0.010
APR											
05...	38	10	12	2.1	--	17	44	0.10	4.4	193	0.030
JUN											
06...	37	8.6	7.0	2.7	--	9.3	30	0.20	5.4	172	0.040

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 1994 TO SEPTEMBER 1995

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	COBALT, DIS-SOLVED (UG/L AS CO)	IRON, DIS-SOLVED (UG/L AS FE)
OCT										
25...	0.44	0.06	0.	0.06	0.07	0.04	40	26	<3	20
DEC										
06...	0.62	0.07	0.3	0.10	0.05	0.05	90	26	<3	62
FEB										
16...	0.86	0.06	0.4	0.08	0.08	0.04	--	--	--	--
APR										
05...	1.20	0.02	0.5	0.05	0.04	0.03	<10	33	<3	13
JUN										
06...	1.40	0.03	0.4	0.09	0.03	0.05	40	33	<3	54

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	NESE, DIS-SOLVED (UG/L AS MN)	DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	MANGA-NIUM, DIS-SOLVED (UG/L AS SE)	MOLYB-SILVER, DIS-SOLVED (UG/L AS AG)	SELE-TIUM, DIS-SOLVED (UG/L AS SR)	STRON-DIUM, DIS-SOLVED (UG/L AS V)	VANA-SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT											
25...	<4	9	20	<1	<1	<1.0	99	<6	17	--	90
DEC											
06...	6	3	<10	1	<1	<1.0	110	<6	24	19600	81
FEB											
16...	--	--	--	--	--	--	--	--	154	98700	96
APR											
05...	<4	3	<10	2	<1	<1.0	160	<6	--	--	--
JUN											
06...	<4	3	<10	2	<1	<1.0	130	<6	--	--	--

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 mi^2.

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

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

GAGE.--Water-Stage recorder. 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. 1-3, 5-13, 29-31, Feb. 8-13, May 24 to June 2 and Aug. 11-23. Records fair except for periods of estimated record, which are poor. Minium flow affected by backwater from the Mississippi River. Specific conductance and temperature measurements made in conjunction with discharge measurements are published in the miscellaneous water-quality data section.

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	20	26	25	31	32	43	36	833	20	22	28	15
2	19	26	25	30	32	41	37	822	18	19	23	15
3	22	26	25	30	31	41	37	100	32	20	24	14
4	24	28	27	29	31	42	36	53	25	26	29	14
5	23	30	29	32	30	136	35	41	22	27	1150	14
6	22	32	27	336	28	127	35	37	30	22	1370	14
7	21	26	26	157	29	191	35	34	55	21	343	14
8	24	26	24	50	28	131	35	33	21	20	235	15
9	22	28	298	37	27	72	34	41	19	19	100	14
10	20	30	952	32	27	56	33	33	18	18	71	14
11	19	26	253	35	26	52	35	31	24	18	50	14
12	20	25	52	34	24	48	34	31	25	18	40	14
13	38	27	38	39	22	45	34	31	20	17	32	14
14	29	28	34	614	84	43	33	63	18	16	28	14
15	27	29	32	76	1170	42	33	55	17	16	26	14
16	26	30	43	41	1210	40	32	58	17	18	24	22
17	25	28	50	33	272	42	33	42	17	19	22	18
18	27	27	38	221	108	39	33	347	16	17	19	15
19	28	26	34	785	80	39	32	457	17	17	18	15
20	27	27	34	127	65	44	302	60	18	18	18	15
21	27	38	33	60	57	53	256	36	45	20	17	15
22	36	29	46	42	51	40	43	30	21	86	16	14
23	30	26	40	35	49	38	45	28	19	254	16	15
24	29	26	35	32	45	39	46	26	18	370	15	18
25	27	26	34	33	45	36	33	24	23	1030	15	17
26	26	26	33	32	45	37	28	22	32	452	15	18
27	26	63	32	35	48	46	26	40	21	62	16	15
28	26	70	32	39	47	39	25	33	19	341	16	15
29	25	31	31	35	---	37	30	28	227	300	16	14
30	26	27	31	33	---	36	233	24	39	44	16	15
31	27	---	31	32	---	36	---	22	---	31	15	---
TOTAL	788	913	2444	3177	3743	1751	1719	3515	913	3378	3823	454
MEAN	25.4	30.4	78.8	102	134	56.5	57.3	113	30.4	109	123	15.1
MAX	38	70	952	785	1210	191	302	833	227	1030	1370	22
MIN	19	25	24	29	22	36	25	22	16	16	15	14
CFSM	.37	.44	1.15	1.49	1.95	.82	.83	1.65	.44	1.59	1.80	.22
IN.	.43	.49	1.32	1.72	2.03	.95	.93	1.90	.49	1.83	2.07	.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

MEAN	32.6	82.2	130	156	189	214	139	99.8	66.5	58.0	40.8	34.3
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	28280		26618			
ANNUAL MEAN	77.5		72.9		103	
HIGHEST ANNUAL MEAN					268	1976
LOWEST ANNUAL MEAN					18.7	1941
HIGHEST DAILY MEAN	1290	Mar 28	1370	Aug 6	7150	Jan 2 1966
LOWEST DAILY MEAN	15	Jul 26	14	Sep 3	4.0	May 29 1943
ANNUAL SEVEN-DAY MINIMUM	15	Jul 26	14	Sep 9	4.7	Jun 20 1942
INSTANTANEOUS PEAK FLOW			1500	Aug 6	9460	Jan 2 1966
INSTANTANEOUS PEAK STAGE			14.01	Aug 6	16.39	Mar 12 1965
ANNUAL RUNOFF (CFSM)	1.13		1.06		1.50	
ANNUAL RUNOFF (INCHES)	15.31		14.41		20.40	
10 PERCENT EXCEEDS	130		100		189	
50 PERCENT EXCEEDS	28		30		22	
90 PERCENT EXCEEDS	17		16		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 1995

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum: Date	Annual maximum: Gage height (feet)	Annual maximum: Discharge (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†, 1993-95	02-16-95	81.26	6,090
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†, 1993-95	05-19-95	11.88	9,540

See footnote at end of table.

Annual maximum discharge at crest-stage partial-record stations during water year 1995--Continued

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (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†, 1993-95	05-15-95	13.21	2,630
		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†, 1993-95	01-17-95	98.80	2,780
		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†, 1993-95	05-14-95	8.42	3,030
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†, 1993-95	05-14-95	22.93	3,380

† Operated as a continuous-record gaging station.

Discharge measurements made at special study and miscellaneous sites during water year 1995

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		BIG SANDY RIVER BASIN				
03215495 Blaine Creek	Big Sandy River	Lat 38°07'43", long 82°41'47", Lawrence County, 0.2 mi downstream from Yatesville lake, 1.4 mi south of Yatesville, and at mile 18.1.	208	1994-95	07-21-94 12-07-94	a 16.6 771
		KENTUCKY RIVER BASIN				
03284750 Dix River	Kentucky River	Lat 37°27'27", long 84°28'41", Lincoln County, at bridge on unmarked road, 0.6 mi below Copper Creek, 0.8 mi above Flax Creek, 1.6 mi east of Crab Orchard, and at mile 72.6.	70.5	1973-76, 1988, 1994-95	1-31-95	73.4
03285003 Boone Creek	Dix River	Lat 37°39'10", long 84°38'50", Garrard County, at bridge on Papermill Road, at mile 0.38, and 4.0 mi west of Lancaster.	90.0	1995	2-16-95 3-01-95 3-13-95 3-28-95 4-10-95 5-02-95 6-13-95 7-26-95	282 3.93 18.3 4.96 1.53 48.1 5.47 .46
03285004 Clear Creek	Dix River	Lat 37°39'28", long 84°40'03", Garrard County, at bridge on private drive, at mile 0.35, and 5.0 mi west of Lancaster.	2.56	1995	2-16-95 3-01-95 3-13-95 3-28-95 4-10-95 5-02-95 6-13-95 7-26-95	59.4 1.59 6.97 1.12 .48 25.3 5.37 .05
03285300 Spears Creek	Dix River	Lat 37°40'11", long 84°46'00", Boyle County, at bridge on county road 33, 1.2 mi north of Danville, and at mile 2.88.	4.87	1995	2-15-95 3-01-95 3-13-95 3-28-95 4-10-95 5-02-95 6-13-95 7-26-95 8-29-95	33.7 2.76 11.1 2.05 .79 14.5 15.4 .73 .02

a Not previously published

Discharge measurements made at special study and miscellaneous sites during water year 1995--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		KENTUCKY RIVER BASIN				
03285350 Mocks Branch	Dix River	Lat 37°41'28", long 84°45'53" Boyle County, at culvert on county road 33 at mile 1.49, and 3.3 mi north of Danville.	16.3	1995	2-15-95	128
					3-01-95	6.38
					3-13-95	30.8
					3-28-95	5.87
					4-10-95	2.28
					5-02-95	32.7
					6-13-95	57.2
					7-26-95	.26
03285400 McKecknie Creek	Dix River	Lat 37°42'27", long 84°40'40", Garrard County, at bridge on county road 1355, 1.7 mi southwest of Bryantsville and at mile 2.70.	2.55	1995	2-16-95	43.5
					3-13-95	1.20
					5-02-95	3.75
					6-13-95	1.32
03285550 Cane Run	Dix River	Lat 37°44'59", long 84°45'19", Mercer County, at bridge on county road 152, and 0.5 mi east of Burgin, and at mile 4.37.	3.24	1995	2-15-95	72.8
					3-01-95	5.24
					3-13-95	21.4
					3-28-95	3.19
					4-10-95	1.89
					5-02-95	22.1
					6-13-95	22.7
					7-26-95	.18
					8-29-95	.07

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
BIG SANDY RIVER BASIN									
03207965 GRAPEVINE CREEK NEAR PHYLLIS, KY (LAT 37 25 57N LONG 082 21 14W)									
OCT 1994					MAY 1995				
03...	1225	1.6	2640	17.0	31...	1345	2.5	1240	18.0
DEC					JUL				
13...	1435	3.1	1750	5.0	11...	1635	1.6	1950	26.0
JAN 1995					AUG				
31...	1520	10	548	7.0	22...	1400	1.2	236	24.0
APR									
04...	1410	2.9	1220	15.0					
03209500 LEVISA FORK AT PIKEVILLE, KY (LAT 37 27 51N LONG 082 31 35W)									
OCT 1994					JUN 1995				
03...	1520	312	540	19.5	01...	0900	714	492	19.5
DEC					JUL				
14...	1005	562	640	6.5	12...	0920	251	--	25.0
FEB 1995					AUG				
01...	0930	2820	365	4.5	23...	0830	183	621	25.5
APR									
05...	0940	486	540	11.5					
03210000 JOHNS CREEK NEAR META, KY (LAT 37 34 01N LONG 082 27 29W)									
OCT 1994					MAY 1995				
03...	1345	8.0	1160	18.0	31...	1540	27	792	19.5
DEC					JUL				
13...	1635	26	222	4.5	11...	1815	8.6	1030	25.0
JAN 1995					AUG				
31...	1705	120	340	6.0	22...	1555	7.7	960	25.5
APR									
04...	1545	28	665	15.0					
03212500 LEVISA FORK AT PAINTSVILLE, KY (LAT 37 48 55N LONG 082 47 30W)									
OCT 1994					JUL 1995				
05...	0815	389	640	8.5	13...	0930	394	617	25.5
APR 1995					AUG				
06...	1000	825	541	12.0	23...	1230	304	690	26.5
JUN									
02...	0940	1280	479	20.0					
LITTLE SANDY RIVER BASIN									
03216500 LITTLE SANDY RIVER AT GRAYSON, KY (LAT 38 19 48N LONG 082 56 22W)									
OCT 1994					MAY 1995				
05...	1550	32	256	14.5	09...	1115	474	159	14.0
DEC					JUN				
20...	1230	239	200	5.5	13...	1155	2070	188	18.0
JAN 1995					JUL				
31...	1415	1540	160	1.0	18...	1130	36	446	24.5
MAR					AUG				
01...	0930	1250	162	5.5	22...	1155	38	408	24.0
APR									
04...	1330	118	210	13.0					
TYGARTS CREEK BASIN									
03217000 TYGARTS CREEK NEAR GREENUP, KY (LAT 38 33 51N LONG 082 57 08W)									
OCT 1994					APR 1995				
21...	1435	6.8	292	16.0	05...	1215	71	237	10.5
NOV					MAY				
28...	1535	773	--	14.0	10...	1445	1800	207	15.0
DEC					JUN				
21...	1500	122	266	4.5	14...	1405	312	272	19.0
JAN 1995					JUL				
26...	1025	235	225	1.0	19...	1305	15	406	25.5
MAR					AUG				
10...	0840	1040	175	4.0	23...	1255	32	369	25.0
KINNICONICK CREEK BASIN									
03237250 KINNICONICK CREEK NEAR TANNERY, KY (LAT 38 32 36N LONG 083 13 29W)									
OCT 1994					MAY 1995				
12...	1155	0.83	147	14.0	11...	1025	1090	--	15.5
NOV					JUN				
28...	1255	265	1720	12.0	15...	1010	98	153	19.5
DEC					JUL				
21...	1255	100	112	4.5	20...	1100	3.6	189	26.0
JAN 1995					27...	1120	12	202	25.5
26...	1245	191	94	1.0	AUG				
MAR					23...	1020	11	211	25.5
10...	1105	730	82	4.5					
APR									
06...	1030	50	96	9.5					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
LICKING RIVER BASIN									
03248500 LICKING RIVER NEAR SALYERSVILLE, KY (LAT 37 45 03N LONG 083 05 04W)									
OCT 1994					JUN 1995				
04...	1815	10	565	22.5	01...	1400	82	446	18.5
DEC					JUL				
14...	1555	98	304	5.0	12...	1450	16	533	23.5
FEB 1995					AUG				
01...	1430	191	266	3.5	23...	1540	5.4	554	22.5
APR									
05...	1455	59	423	11.5					
03251200 NORTH FORK LICKING RIVER NEAR MT OLIVET, KY (LAT 38 35 41N LONG 084 01 13W)									
OCT 1994					MAY 1995				
13...	1415	0.52	320	12.5	11...	1350	526	--	15.5
DEC					JUN				
22...	1205	113	455	3.5	15...	1355	225	441	19.5
JAN 1995					JUL				
27...	0945	161	216	-0.5	20...	1405	1.3	735	25.0
MAR					AUG				
03...	1000	210	438	4.0	31...	1430	1.3	613	26.0
APR									
06...	1335	35	464	11.0					
03252300 HINKSTON CREEK NEAR CARLISLE, KY (LAT 38 14 33N LONG 084 03 09W)									
OCT 1994					MAR 1995				
11...	1305	0.62	522	13.5	23...	1155	74	390	13.0
NOV					APR				
23...	1130	4.9	515	7.5	24...	1155	1340	273	9.5
JAN 1995					JUN				
13...	1040	295	394	10.5	07...	1415	47	403	23.0
FEB					JUL				
22...	1440	127	403	5.5	14...	1130	4.8	445	26.0
03253500 LICKING RIVER AT CATAWBA, KY (LAT 38 42 31N LONG 084 18 38W)									
OCT 1994					MAR 1995				
14...	1025	299	228	16.0	03...	1245	4630	264	5.5
NOV					APR				
30...	0950	5210	347	8.0	07...	1100	495	246	14.0
DEC					JUN				
23...	0940	1580	348	2.0	16...	1045	3610	339	20.0
JAN 1995					AUG				
30...	1320	21000	219	2.5	24...	1215	171	452	26.5
KENTUCKY RIVER BASIN									
03277400 LEATHERWOOD CREEK AT DAISY, KY (LAT 37 06 48N LONG 083 05 33W)									
OCT 1994					MAY 1995				
14...	1345	5.7	480	16.0	19...	1043	878	76	14.0
DEC					JUN				
14...	1255	6.9	331	5.5	02...	0720	29	383	19.0
FEB 1995					JUL				
01...	1150	41	197	3.0	12...	0835	5.0	480	22.5
APR					AUG				
05...	0850	22	282	7.0	24...	0905	2.5	810	22.0
03280000 NORTH FORK KENTUCKY RIVER AT JACKSON, KY (LAT 37 32 46N LONG 083 22 21W)									
DEC 1994					MAY 1995				
14...	1520	556	572	4.5	18...	1213	5230	275	16.0
FEB 1995					JUL				
21...	0950	2010	355	6.5	11...	1240	177	956	25.0
APR					AUG				
04...	1400	628	583	14.0	23...	1410	162	968	26.0
03280700 CUTSHIN CREEK AT WOOTON, KY (LAT 37 09 54N LONG 083 18 29W)									
OCT 1994					JUN 1995				
05...	1110	1.8	625	15.0	02...	1015	34	405	20.0
DEC					JUL				
14...	1055	13	244	2.5	12...	1030	5.5	557	26.0
FEB 1995					AUG				
07...	1325	103	248	0.0	22...	1130	2.4	541	27.0
APR									
05...	1030	25	361	8.5					
03281000 MIDDLE FORK KENTUCKY RIVER AT TALLEGA, KY (LAT 37 33 18N LONG 083 35 38W)									
DEC 1994					JUN 1995				
15...	0815	239	411	5.5	01...	1340	222	163	18.0
FEB 1995					JUL				
27...	1055	523	178	7.5	11...	1030	69	298	23.5
APR					AUG				
04...	1200	124	190	13.0	23...	1225	48	320	25.5

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
KENTUCKY RIVER BASIN--Continued									
03281040 RED BIRD RIVER NEAR BIG CREEK, KY (LAT 37 10 43N LONG 083 35 35W)									
OCT 1994					MAY 1995				
13...	1040	8.2	410	14.0	15...	1033	1790	101	14.0
DEC					16...	1004	858	130	14.5
19...	1020	35	272	5.5	30...	1025	109	264	18.5
FEB 1995					JUL				
09...	1325	155	180	0.5	14...	1130	13	428	26.5
APR					AUG				
06...	1110	67	268	11.0	22...	1310	10	542	26.0
03281100 GOOSE CREEK AT MANCHESTER, KY (LAT 37 09 07N LONG 083 45 37W)									
OCT 1994					MAY 1995				
13...	1320	14	--	15.0	30...	1205	276	152	18.0
DEC					JUL				
19...	1150	60	216	6.0	13...	1125	12	391	24.5
FEB 1995					AUG				
21...	1325	312	165	6.5	24...	1140	3.8	475	25.0
APR									
06...	1235	65	230	13.0					
03281500 SOUTH FORK KENTUCKY RIVER AT BOONEVILLE, KY (LAT 37 28 45N LONG 083 40 38W)									
OCT 1994					JUN 1995				
27...	1205	44	--	12.0	01...	1125	490	170	19.5
DEC					JUL				
15...	1025	371	175	5.5	11...	0905	89	301	25.0
FEB 1995					AUG				
27...	1305	540	199	8.0	23...	1115	84	299	26.5
APR									
04...	1005	362	209	13.0					
03282040 STURGEON CREEK AT CRESSMONT, KY (LAT 37 30 02N LONG 083 48 37W)									
OCT 1994					MAY 1995				
04...	1055	0.60	201	14.5	31...	0830	31	164	17.5
DEC					JUL				
20...	1145	36	130	4.0	18...	1015	1.1	165	24.5
JAN 1995					AUG				
25...	1225	67	--	0.5	25...	1110	1.8	215	23.0
APR									
13...	1035	88	143	13.0					
03282500 RED RIVER NEAR HAZEL GREEN, KY (LAT 37 48 44N LONG 083 27 50W)									
OCT 1994					APR 1995				
06...	1505	0.59	--	18.0	03...	1410	25	157	12.5
NOV					JUN				
21...	1545	1.1	243	13.5	12...	1340	443	175	18.0
DEC					JUL				
19...	1515	19	180	5.0	17...	1315	0.94	280	28.0
JAN 1995					AUG				
24...	1350	97	100	2.0	21...	1340	0.73	329	28.0
FEB									
28...	1410	215	132	8.5					
03283500 RED RIVER AT CLAY CITY, KY (LAT 37 51 53N LONG 083 56 01W)									
NOV 1994					MAY 1995				
21...	1310	24	319	13.0	08...	1030	522	110	--
DEC					JUN				
19...	1200	212	180	5.0	12...	1110	683	179	21.0
JAN 1995					JUL				
31...	1000	806	105	1.0	17...	1100	97	237	26.5
FEB					AUG				
28...	1105	826	173	8.5	21...	1105	143	329	28.0
APR									
03...	1135	176	165	11.5					
03284000 KENTUCKY RIVER AT LOCK 10 NEAR WINCHESTER, KY (LAT 37 53 41N LONG 084 15 44W									
OCT 1994					APR 1995				
11...	1035	379	434	18.5	25...	1335	25000	171	13.0
NOV					JUN				
28...	1200	5920	580	12.0	05...	1520	2430	295	23.5
FEB 1995					JUL				
23...	0945	7870	201	7.0	11...	0900	762	334	28.0
03285000 DIX RIVER NEAR DANVILLE, KY (LAT 37 38 31N LONG 084 39 39W)									
OCT 1994					APR 1995				
07...	1300	2.9	204	18.0	26...	1150	672	265	13.5
NOV					MAY				
22...	1130	8.8	373	11.5	19...	1130	16800	143	17.0
JAN 1995					JUN				
11...	1230	368	312	5.5	08...	1135	136	307	24.5
FEB					JUL				
27...	1200	182	310	9.0	13...	1055	18	330	28.0
MAR					AUG				
22...	1255	289	291	14.5	23...	1125	14	299	27.0

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

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KENTUCKY RIVER BASIN--Continued									
03285200 CLARKS RUN NEAR DANVILLE, KY (LAT 37 38 20N LONG 084 43 16W)									
OCT 1994					MAY 1995				
12...	1245	2.3	958	14.5	02...	1140	192	355	12.0
NOV					17...	1135	436	372	16.5
22...	1415	3.0	1400	10.5	17...	1220	725	372	16.5
JAN 1995					JUN				
11...	1415	40	520	8.5	08...	1340	21	556	25.5
FEB					13...	1140	38	525	18.5
15...	1715	321	188	6.0	JUL				
25...	0940	26	530	10.5	13...	1330	4.7	933	39.0
MAR					25...	1158	6.5	820	28.0
22...	1520	23	545	17.0	AUG				
28...	1100	17	595	13.0	29...	1045	2.7	1400	23.5
APR									
10...	1320	7.7	758	22.0					
26...	1415	50	462	17.0					
03286500 KENTUCKY RIVER AT LOCK 7 AT HIGHBRIDGE, KY (LAT 37 49 45N LONG 084 43 26W)									
OCT 1994					MAR 1995				
06...	1023	118	395	19.0	24...	1005	5530	234	12.0
NOV					MAY				
30...	0945	4410	476	11.0	02...	1035	14800	226	12.0
JAN 1995					JUN				
12...	0915	7170	305	4.5	06...	0940	3160	291	21.5
FEB					JUL				
24...	0920	8730	227	6.0	12...	1040	699	309	27.5
03287000 KENTUCKY RIVER AT LOCK 6 NEAR SALVISA, KY (LAT 37 55 32N LONG 084 49 17W)									
OCT 1994					MAR 1995				
03...	1115	498	303	16.5	21...	1325	6040	239	10.5
NOV					MAY				
29...	1240	6420	435	11.0	01...	1115	5340	184	13.0
JAN 1995					JUN				
09...	1500	18700	287	3.5	06...	1235	3280	282	19.0
03287500 KENTUCKY RIVER AT LOCK 4 AT FRANKFORT, KY (LAT 38 12 06N LONG 084 52 54W)									
OCT 1994					MAR 1995				
05...	1045	297	296	19.5	02...	1400	8610	260	6.0
NOV					APR				
07...	1050	681	274	14.5	05...	1025	2180	290	12.5
DEC					JUN				
19...	1040	3160	366	8.0	05...	1112	5310	260	29.0
JAN 1995					JUL				
23...	1025	11200	232	6.5	18...	1110	902	328	29.5
0328800 NORTH ELKHORN CREEK NEAR GEORGETOWN, KY (LAT 38 12 20N LONG 084 30 49W)									
NOV 1994					APR 1995				
25...	1115	6.0	468	7.0	27...	0820	179	382	14.0
JAN 1995					JUN				
10...	1500	174	401	5.5	09...	0910	84	399	22.0
FEB					JUL				
16...	1230	887	366	4.5	14...	1425	6.6	362	27.5
MAR					AUG				
23...	1500	81	378	13.0	28...	1435	6.8	670	25.0
03288100 NORTH ELKHORN CREEK AT GEORGETOWN, KY (LAT 38 13 10N LONG 084 33 48W)									
OCT 1994					APR 1995				
05...	1711	4.9	547	17.0	27...	0950	229	397	14.0
NOV					MAY				
25...	1315	11	860	8.0	18...	1130	6500	319	17.5
JAN 1995					JUN				
17...	0920	738	360	7.5	09...	1030	120	399	23.0
FEB					JUL				
23...	1455	154	435	7.0	11...	1410	11	391	28.0
MAR									
21...	1515	125	430	13.5					
03288110 ROYAL SPRINGS AT GEORGETOWN, KY (LAT 38 12 34N LONG 084 33 43W)									
OCT 1994					MAR 1995				
15...	1550	0.62	564	16.5	28...	1205	16	531	11.5
NOV					APR				
25...	1435	1.8	703	13.5	27...	1050	31	504	13.5
JAN 1995					JUN				
13...	1355	27	540	12.5	09...	1200	47	461	20.0
FEB									
16...	1430	57	518	8.5					
03289300 SOUTH ELKHORN CREEK NEAR MIDWAY, KY (LAT 38 08 27N LONG 084 38 43W)									
OCT 1994					APR 1995				
05...	1545	51	748	18.0	27...	1305	161	511	15.5
NOV					JUN				
21...	1410	77	--	13.0	12...	0935	512	351	19.5
JAN 1995					JUL				
17...	1235	428	--	9.5	19...	1035	78	660	26.0
FEB					AUG				
28...	1305	200	533	11.0	22...	1225	118	594	26.0
MAR									
28...	1355	99	554	12.5					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
KENTUCKY RIVER BASIN--Continued									
03289500 ELKHORN CREEK NEAR FRANKFORT, KY (LAT 38 16 07N LONG 084 48 53W)									
NOV 1994					MAY 1995				
10...	1030	55	550	12.5	08...	0950	398	426	16.0
DEC					JUN				
19...	1435	594	489	5.5	13...	1205	1840	367	19.5
JAN 1995					JUL				
23...	1445	612	475	3.5	20...	1400	64	522	25.5
MAR					AUG				
03...	1110	357	483	4.5	22...	1355	138	555	26.5
APR									
03...	1110	176	470	10.5					
03291500 EAGLE CREEK AT GLENCOE, KY (LAT 38 42 18N LONG 084 49 26W)									
OCT 1994					APR 1995				
17...	1355	0.59	355	19.5	04...	1220	63	542	12.0
NOV					MAY				
09...	1030	10	310	14.0	09...	0945	174	436	18.0
DEC					JUN				
20...	1340	166	347	3.5	14...	1040	461	295	19.0
JAN 1995					JUL				
24...	1100	197	434	1.0	19...	1345	2.3	410	29.0
FEB					AUG				
28...	1425	174	457	7.5	28...	1435	4.0	258	29.0
BEARGRASS CREEK BASIN									
03292700 UNAMED TRIBUTARY TO MIDDLE FORK BEARGRASS CREEK NEAR MIDDLETOWN, KY (LAT 38 15 05N LONG 085 33 36									
DEC 1994					FEB 1995				
09...	1325	8.2	315	11.5	10...	1015	0.56	330	7.5
NOV					MAY				
08...	1340	8.3	315	11.5	09...	1055	43	129	18.5
SALT RIVER BASIN									
03295400 SALT RIVER AT GLENSBORO, KY (LAT 38 00 07N LONG 085 03 38W)									
OCT 1994					JUN 1995				
05...	1435	1.0	594	16.0	16...	1045	105	390	20.5
MAR 1995					JUL				
03...	1610	71	467	5.0	20...	1015	6.6	411	23.5
APR					AUG				
06...	1340	36	445	13.5	21...	1410	10	455	28.0
MAY									
10...	1330	1200	404	18.5					
03295890 BRASHEARS CREEK AT TAYLORSVILLE, KY (LAT 38 02 13N LONG 085 20 27W)									
OCT 1994					APR 1995				
05...	1050	0.55	490	14.5	06...	1000	33	398	10.0
NOV					MAY				
08...	0940	1.8	441	11.0	10...	1000	683	375	17.0
DEC					JUN				
21...	1630	137	464	3.5	15...	1320	161	332	23.0
JAN 1995					JUL				
25...	1055	171	464	0.5	17...	1000	12	409	26.5
MAR					AUG				
01...	0950	165	425	7.0	21...	1115	15	401	26.5
03297900 FLOYDS FORK NEAR PEWEE VALLEY, KY (LAT 38 17 07N LONG 085 28 04W)									
OCT 1994					MAY 1995				
06...	1025	0.43	511	13.5	08...	1325	26	500	18.0
NOV					19...	0905	1130	323	15.5
18...	1350	12	602	10.5	JUN				
DEC					14...	1330	17	509	19.0
22...	1000	31	543	3.5	JUL				
JAN 1995					19...	0925	2.1	489	24.0
25...	1420	37	591	1.0	AUG				
FEB					28...	1015	1.0	539	24.0
28...	0945	40	529	9.0					
APR									
04...	0855	12	532	11.5					
03298500 SALT RIVER AT SHEPHERDSVILLE, KY (LAT 37 59 06N LONG 085 43 03W)									
OCT 1994					MAY 1995				
03...	1035	25	402	18.0	24...	1335	4120	347	19.0
DEC					JUN				
19...	0945	2060	390	6.0	26...	1055	482	355	21.5
JAN 1995					JUL				
30...	1120	3550	360	2.0	28...	1305	172	370	22.0
MAR					AUG				
13...	1215	3670	350	15.5	29...	1310	39	365	21.0
APR									
14...	1050	374	451	15.5					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

SALT RIVER BASIN--Continued

03298550 LONG LICK AT CLERMONT, KY (LAT 38 55 40N LONG 085 39 15W)

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
OCT 1994					APR 1995				
03...	1525	0.03	642	20.5	14...	0830	7.8	460	14.0
NOV					JUN				
10...	1220	0.38	676	13.5	12...	0930	7.6	343	18.5
DEC					JUL				
19...	1245	2.5	560	10.5	21...	1100	0.36	742	23.5
JAN 1995					AUG				
30...	1415	10	330	4.0	25...	1440	0.26	895	22.5
MAR									
13...	0925	8.5	560	9.0					

03300400 BEECH FORK AT MAUD, KY (LAT 37 49 58N LONG 085 17 46W)

OCT 1994					APR 1995				
04...	1600	0.69	276	18.5	10...	1010	89	489	16.0
NOV					MAY				
08...	1330	0.44	239	12.5	10...	0915	3610	291	18.0
DEC					JUN				
21...	1105	148	383	3.0	12...	1215	2370	347	21.0
JAN 1995					JUL				
26...	1315	143	439	2.0	17...	1330	14	331	28.0
MAR					AUG				
01...	1310	181	439	7.0	29...	1115	2.1	293	25.5

03301500 ROLLING FORK NEAR BOSTON, KY (LAT 37 46 02N LONG 085 42 14W)

OCT 1994					APR 1995				
04...	1155	14	380	16.0	10...	1235	360	415	15.5
NOV					MAY				
08...	0900	10	404	13.0	24...	1100	2450	352	19.5
DEC					JUN				
19...	1425	897	400	11.5	26...	1350	1220	370	21.0
JAN 1995					JUL				
31...	1145	2700	--	2.0	27...	1230	140	380	21.5
MAR					AUG				
15...	1200	1790	395	14.0	29...	0945	43	410	28.5

03301580 WILSON CREEK NEAR DEATSVILLE, KY. (LAT 37 51 49N LONG 085 36 41W)

OCT 1994					MAY 1995				
14...	1425	0.26	476	16.0	12...	0915	19	390	13.0
NOV					JUL				
22...	1000	0.57	377	9.5	12...	1220	0.31	469	24.5
FEB 1995					SEP				
27...	1500	5.4	431	9.0	19...	1430	0.99	445	19.5
APR									
07...	1440	4.6	457	14.5					

03302000 POND CREEK NEAR LOUISVILLE, KY (LAT 38 07 11N LONG 085 47 45

OCT 1994					MAR 1995				
03...	0910	8.2	690	19.0	06...	0845	70	509	9.0
31...	1250	7.7	729	16.0	APR				
DEC					03...	1415	11	564	13.0
05...	1230	131	474	13.5	JUN				
JAN 1995					26...	1415	65	363	24.0
04...	1455	13	710	1.5	SEP				
FEB					11...	1530	3.7	772	23.0
01...	1505	45	384	3.0					

GREEN RIVER BASIN

03307000 RUSSELL CREEK NEAR COLUMBIA, KY (LAT 37 07 09N LONG 085 23 38W)

OCT 1994					MAR 1995				
06...	1040	21	274	14.5	22...	0840	188	222	13.0
NOV					APR				
09...	1240	32	278	14.5	13...	1020	114	368	16.5
DEC					24...	1045	1480	162	11.5
22...	1550	117	225	7.0	AUG				
FEB 1995					03...	1330	27	165	21.5
08...	1235	110	268	0.0					
16...	1100	2240	176	7.5					

03307260 LITTLE PITMAN CREEK NEAR CAMPBELLSVILLE, KY (LAT 37 20 50N LONG 085 23 25W)

OCT 1994					APR 1995				
05...	1840	10	1210	23.5	13...	1455	19	1200	22.5
NOV					MAY				
09...	1510	7.7	1980	21.0	17...	1220	606	595	22.5
DEC					AUG				
22...	1115	22	625	11.0	03...	1600	9.4	1110	23.0
FEB 1995					SEP				
08...	1130	24	1070	4.5	01...	0955	4.0	--	23.0
MAR									
21...	1355	26	865	17.0					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DE
GREEN RIVER BASIN--Continued									
03310300 NOLIN RIVER AT WHITE MILLS, KY (LAT 37 33 03N LONG 086 02 43W)									
OCT 1994					APR 1995				
05...	0915	49	520	15.0	11...	1415	173	430	18.5
NOV					MAY				
08...	1250	52	605	14.5	15...	1140	7190	165	19.5
DEC					JUN				
21...	1325	214	410	13.0	27...	1325	228	175	21.5
FEB 1995									
06...	1315	295	399	4.5					
16...	1015	3500	525	3.5					
03312765 BEAVER CREEK AT HWY 31 E NEAR GLASGOW, KY (LAT 37 02 05N LONG 085 54 13W)									
OCT 1994					APR 1995				
05...	1410	8.0	331	16.0	12...	1045	35	391	16.5
NOV					MAY				
09...	0905	11	380	14.0	18...	0830	311	247	16.0
DEC					JUN				
23...	1025	35	384	10.0	28...	1130	26	250	18.5
FEB 1995					AUG				
08...	1410	36	268	1.5	03...	1050	11	375	23.0
MAR					31...	1020	5.0	1210	23.5
22...	1125	63	322	13.5					
03313700 WEST FORK DRAKES CREEK NEAR FRANKLIN, KY (LAT 36 43 24N LONG 086 33 08W)									
OCT 1994					MAY 1995				
20...	0820	34	324	17.0	09...	1310	421	258	19.5
DEC					10...	0725	664	164	18.0
14...	0800	228	260	8.0	JUN				
FEB 1995					27...	1315	29	331	25.0
01...	0748	161	245	6.0	AUG				
MAR					09...	1322	30	367	26.0
20...	0922	124	262	15.5					
03316000 MUD RIVER NEAR LEWISBURG, KY (LAT 37 00 15N LONG 086 54 26W)									
OCT 1994					MAY 1995				
20...	1151	13	404	16.5	10...	1146	1960	--	18.0
FEB 1995					AUG				
01...	1144	84	426	4.5	10...	0850	27	241	23.5
03316500 GREEN RIVER AT PARADISE, KY (LAT 37 15 50N LONG 086 58 40W)									
DEC 1994					MAY 1995				
07...	1302	10300	278	13.0	23...	1016	48900	184	5.5
APR 1995									
26...	1250	13700	242	16.0					
03320000 GREEN RIVER AT LOCK 2 AT CALHOUN, KY (LAT 37 32 02N LONG 087 15 50W)									
DEC 1994					MAY 1995				
07...	0958	11500	302	12.5	23...	1400	55200	169	20.0
APR 1995									
26...	0943	17300	274	16.0					
03320500 POND RIVER NEAR APEX, KY (LAT 37 07 20N LONG 087 19 10W)									
NOV 1994					MAY 1995				
02...	1314	2.0	421	13.5	22...	1104	646	176	18.0
DEC					JUL				
21...	1425	92	282	6.0	12...	1355	8.4	341	32.0
FEB 1995					AUG				
22...	1506	359	198	7.5	29...	1119	1.7	254	31.0
APR									
17...	1053	33	374	21.5					
03321060 POND RIVER NEAR MADISONVILLE, KY (LAT 37 19 02N LONG 087 22 09W)									
NOV 1994					APR 1995				
03...	0811	13	3520	11.5	17...	1247	81	906	21.5
DEC					MAY				
21...	1125	1040	465	5.5	22...	1338	3020	200	20.0
FEB 1995					JUL				
22...	1210	1770	267	7.5	12...	1045	33	938	28.5
TRADEWATER RIVER BASIN									
03383000 TRADEWATER RIVER AT OLNEY, KY (LAT 37 13 26N LONG 087 46 53W)									
NOV 1994					JUN 1995				
01...	1417	1.2	360	13.0	01...	0838	168	275	--
DEC					JUL				
21...	0900	140	288	5.0	12...	0740	7.7	458	25.5
FEB 1995					AUG				
22...	0912	1120	198	6.5	29...	0905	4.1	527	26.0
APR									
17...	0828	26	452	18.5					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
CUMBERLAND RIVER BASIN									
03400800 MARTINS FORK NEAR SMITH, KY (LAT 36 45 08N LONG 083 15 27W)									
OCT 1994					MAY 1995				
11...	1405	28	140	21.0	30...	1235	55	108	16.5
DEC					JUN				
05...	1245	88	132	8.5	16...	1200	37	121	18.0
FEB 1995					JUL				
13...	1140	76	142	3.5	07...	1435	13	135	24.5
APR					AUG				
05...	1240	9.7	119	12.5	25...	1415	12	150	27.0
03401000 CUMBERLAND RIVER NEAR HARLAN, KY (LAT 36 50 48N LONG 083 21 21W)									
OCT 1994					MAY 1995				
04...	1240	87	--	17.5	16...	1035	2700	201	14.5
FEB 1995					JUN				
07...	1425	1010	275	1.0	29...	1025	151	647	23.5
APR					AUG				
06...	1130	281	568	10.5	29...	1320	45	821	26.5
03402000 YELLOW CREEK NEAR MIDDLESBORO, KY (LAT 36 40 05N LONG 083 41 19W)									
OCT 1994					APR 1995				
07...	1425	7.6	750	17.0	03...	1140	53	418	10.0
DEC					JUN				
02...	1205	24	--	5.5	01...	1415	33	550	21.5
FEB 1995					JUL				
06...	1315	133	263	0.5	11...	1250	18	570	25.5
MAR					AUG				
14...	1050	171	296	8.5	23...	1015	5.1	650	23.5
03402900 CUMBERLAND R AT PINE ST BR AT PINEVILLE, KY (LAT 36 45 47N LONG 083 41 31W)									
OCT 1994					MAY 1995				
12...	1035	134	703	14.0	23...	1200	1910	303	17.0
FEB 1995					JUL				
13...	1405	797	392	1.0	11...	1030	252	535	24.0
APR					AUG				
03...	1320	642	450	12.0	23...	1245	87	768	27.0
03404000 CUMBERLAND RIVER AT WILLIAMSBURG, KY (LAT 36 44 38N LONG 084 09 30W)									
OCT 1994					MAY 1995				
03...	1155	169	--	19.0	26...	1055	2210	289	19.5
DEC					JUL				
08...	1410	1010	342	10.0	10...	1430	310	434	26.0
FEB 1995					AUG				
17...	1431	18500	145	6.5	22...	1320	123	580	28.0
APR									
04...	1405	1120	388	14.0					
03404900 LYNN CAMP CREEK AT CORBIN, KY (LAT 36 57 05N LONG 084 05 37W)									
FEB 1995					JUL 1995				
15...	1115	1050	175	3.5	13...	1350	4.9	880	30.0
APR					AUG				
04...	1100	24	585	13.5	24...	1247	1.2	939	29.0
JUN									
02...	1055	49	457	20.0					
03406500 ROCKCASTLE RIVER AT BILLOWS, KY (LAT 37 10 16N LONG 084 17 46W)									
OCT 1994					MAY 1995				
12...	1005	24	251	13.0	22...	1155	1830	137	15.5
FEB 1995					JUL				
21...	1120	1380	140	6.5	13...	1045	90	215	25.0
APR					AUG				
07...	1125	290	170	12.5	24...	1020	43	252	24.5
03413200 BEAVER CREEK NEAR MONTICELLO, KY (LAT 36 47 51N LONG 084 53 46W)									
OCT 1994					MAY 1995				
17...	1335	3.1	562	15.0	31...	1125	24	320	15.5
DEC					JUL				
09...	1125	12	390	12.0	12...	1145	5.0	460	21.5
FEB 1995					AUG				
16...	1110	546	195	10.5	30...	1130	1.8	600	28.5
APR									
10...	1325	12	355	17.5					
03438000 LITTLE RIVER NEAR CADIZ, KY (LAT 36 46 40N LONG 087 43 18W)									
NOV 1994					MAY 1995				
02...	0751	30	517	11.5	11...	0816	179	425	18.5
DEC					19...	1047	5270	150	16.5
14...	1422	587	378	9.5	JUN				
FEB 1995					28...	1047	123	452	21.5
02...	0749	263	406	9.0	AUG				
MAR					11...	0835	123	390	22.5
14...	0750	415	384	13.0					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
CUMBERLAND RIVER BASIN									
03610200 CLARKS RIVER AT ALMO, KY (LAT 36 41 30N LONG 088 16 25W)									
OCT 1994					MAY 1995				
05...	1445	5.1	236	22.0	12...	0828	29	182	18.5
DEC					JUN				
15...	0834	72	163	7.0	29...	0820	17	198	24.5
FEB 1995					AUG				
03...	0757	39	180	10.5	07...	0806	158	111	24.0
MAR									
13...	1016	67	152	11.5					
MASSAC CREEK BASIN									
03611260 MASSAC CREEK NEAR PADUCAH, KY (LAT 37 02 29N LONG 088 42 39W)									
OCT 1994					APR 1995				
03...	0905	0.61	127	18.0	20...	1323	34	109	18.0
NOV					MAY				
04...	1036	0.90	129	16.5	31...	1012	1.6	145	20.0
DEC					JUL				
15...	1220	4.2	137	6.5	13...	1017	0.90	140	25.5
FEB 1995					AUG				
07...	1254	3.6	142	2.5	30...	1148	0.65	134	26.5
OHIO RIVER MAIN STEM									
03611500 OHIO RIVER AT METROPOLIS, IL (LAT 37 08 51N LONG 088 44 27W)									
MAR 1995					MAY 1995				
13...	1110	666000	160	10.5	26...	1110	680000	246	21.0
BAYOU CREEK BASIN									
03611800 BAYOU CREEK NEAR HEATH, KY (LAT 37 05 58N LONG 088 49 27W)									
OCT 1994					APR 1995				
03...	1355	0.13	237	19.5	21...	1407	11	106	18.0
NOV					MAY				
23...	1240	0.11	92	10.0	22...	1410	0.75	102	20.5
DEC					JUL				
22...	0951	0.23	224	6.5	10...	1312	0.22	206	27.5
FEB 1995					SEP				
09...	1259	0.26	161	3.5	01...	1241	0.16	270	24.5
03611850 BAYOU CREEK NEAR GRAHAMVILLE, KY (LAT 37 08 41N LONG 088 49 38W)									
OCT 1994					APR 1995				
03...	1055	7.6	1180	22.0	24...	1215	32	338	15.5
NOV					MAY				
23...	1120	7.5	775	10.5	22...	1218	8.6	878	22.5
DEC					JUL				
22...	1109	5.7	620	10.5	10...	1118	6.9	931	27.5
FEB 1995					SEP				
09...	1122	5.8	527	3.0	01...	1114	5.8	406	28.5
03611900 LITTLE BAYOU CREEK NEAR GRAHAMVILLE, KY (LAT 37 08 22N LONG 088 47 26W)									
OCT 1994					APR 1995				
03...	1220	0.50	317	22.0	24...	1059	14	86	12.5
NOV					MAY				
23...	1025	0.58	227	7.0	22...	1030	1.3	246	18.0
DEC					JUL				
22...	1225	0.67	298	8.5	10...	0914	1.3	254	24.5
FEB 1995					SEP				
09...	0956	0.98	519	0.5	01...	1010	1.1	313	26.0
BAYOU DE CHIEN BASIN									
07024000 BAYOU DE CHIEN NEAR CLINTON, KY (LAT 36 37 43N LONG 088 57 50W)									
OCT 1994					MAY 1995				
13...	1104	38	70	15.0	19...	1125	350	85	19.0
DEC					JUL				
15...	1015	32	95	6.5	13...	0734	17	77	23.0
FEB 1995					AUG				
08...	1023	28	89	0.5	30...	0948	15	68	23.5
APR									
21...	0857	269	137	17.0					

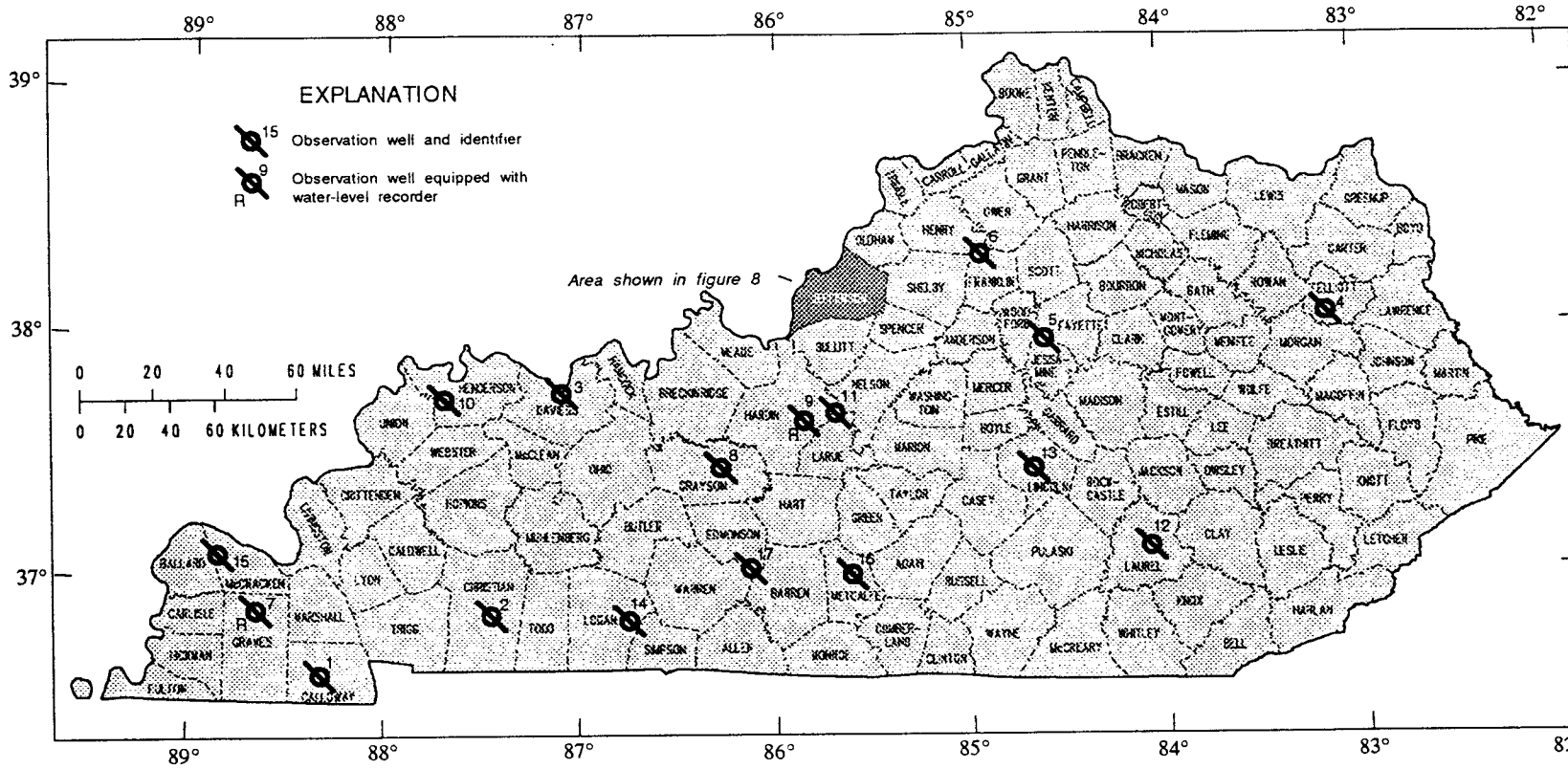
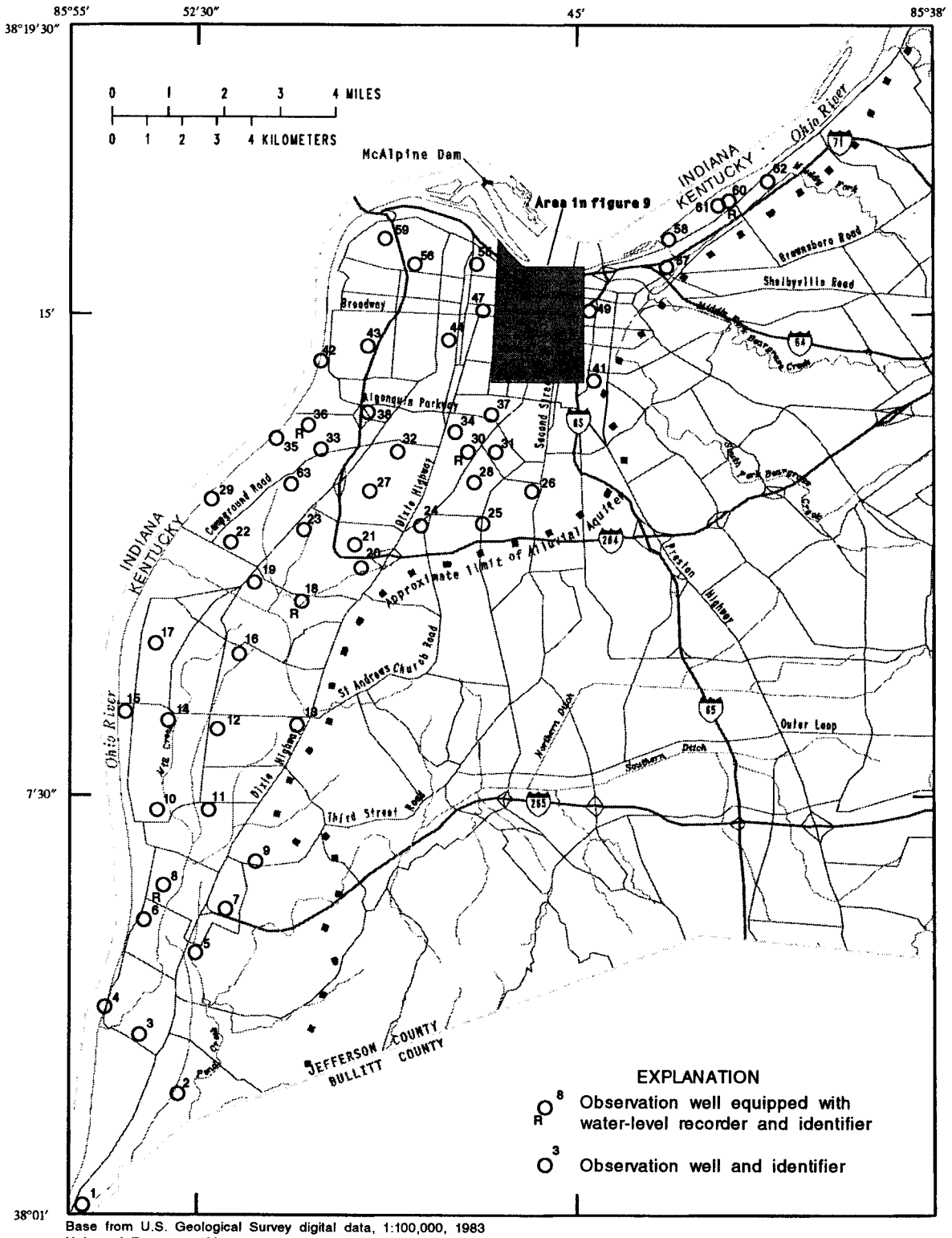


Figure 7. Location of observation wells in Kentucky.



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

Figure 8. Location of observation wells in Jefferson County.

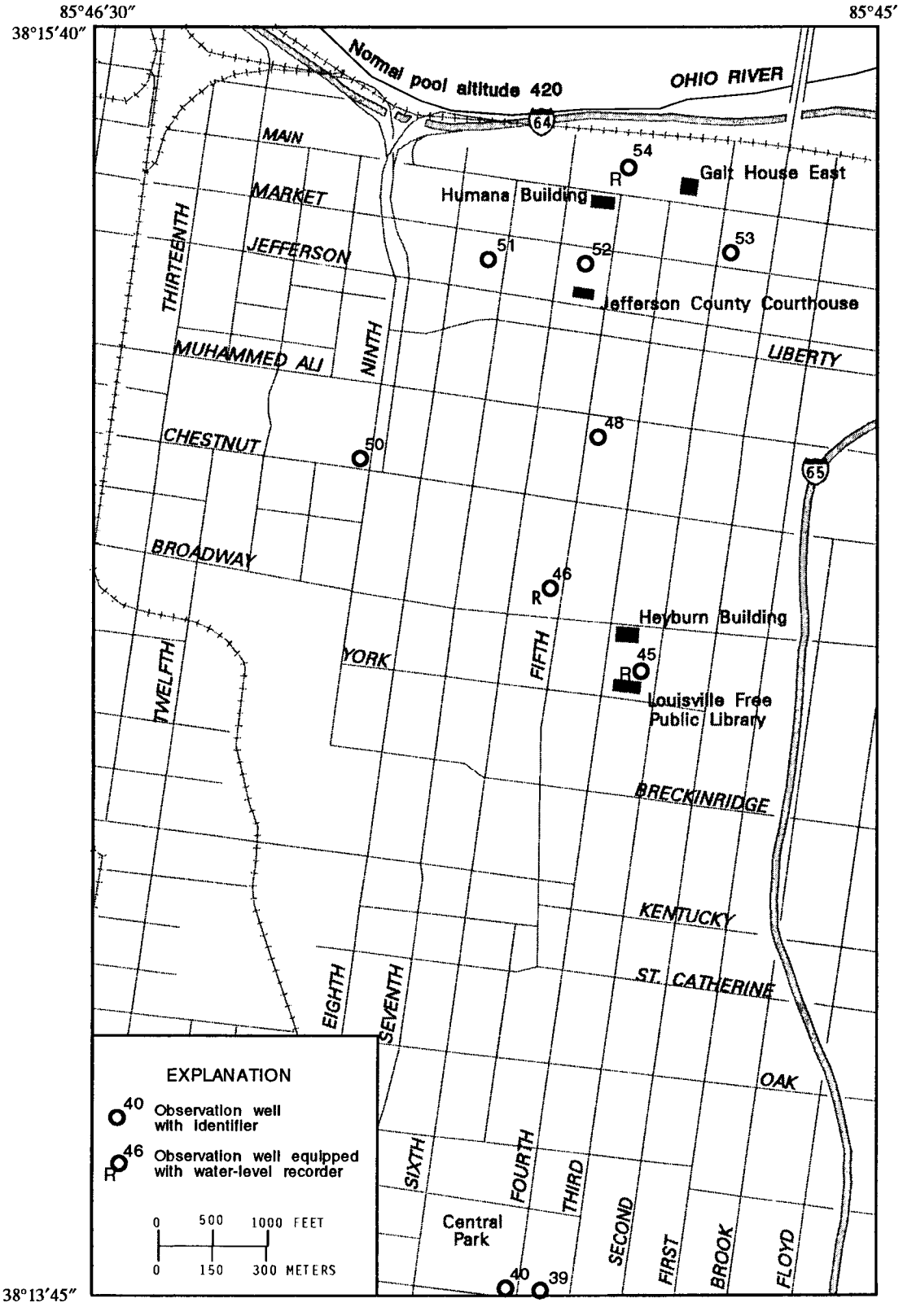


Figure 9. Location of observation wells in downtown Louisville.

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 13, 1994	124.64	Mar. 13	123.81	June 29	124.28
Dec. 15	124.09	May 2	124.33	Aug. 7	124.37
Feb. 3, 1995	123.83				

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level	Date	Water Level
Nov. 2, 1994	16.13	Mar. 14	12.72	June 28	14.86
Dec. 14	12.69	May 11	13.61	Aug. 10	13.88
Feb. 2, 1995	12.85				

DAVIESS 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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 18, 1994	54.77	Mar. 15	47.06	June 26	54.83
Dec. 12	46.27	May 8	53.21	Aug. 8	50.71
Jan. 30, 1995	49.60				

GROUND-WATER LEVELS

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 5, 1994	31.92	Jan. 31, 1995	22.54	June 13	23.45
Nov. 22	29.52	Apr. 4	24.15	July 18	24.72
Dec. 19	23.35	May 9	23.29	Aug. 21	23.84

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 11, 1994	12.65	Feb. 17	7.67	June 6	11.35
Nov. 30	12.34	Mar. 22	7.33	July 13	12.54
Jan. 12, 1995	9.58	May 2	12.03	Aug. 29	12.53

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 11, 1994	42.51	Mar. 2	36.04	June 13	32.60
Nov. 7	42.55	Apr. 3	37.50	July 20	37.41
Dec. 19	34.98	May 8	35.24	Aug. 22	37.65
Jan. 24, 1995	34.62				

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.

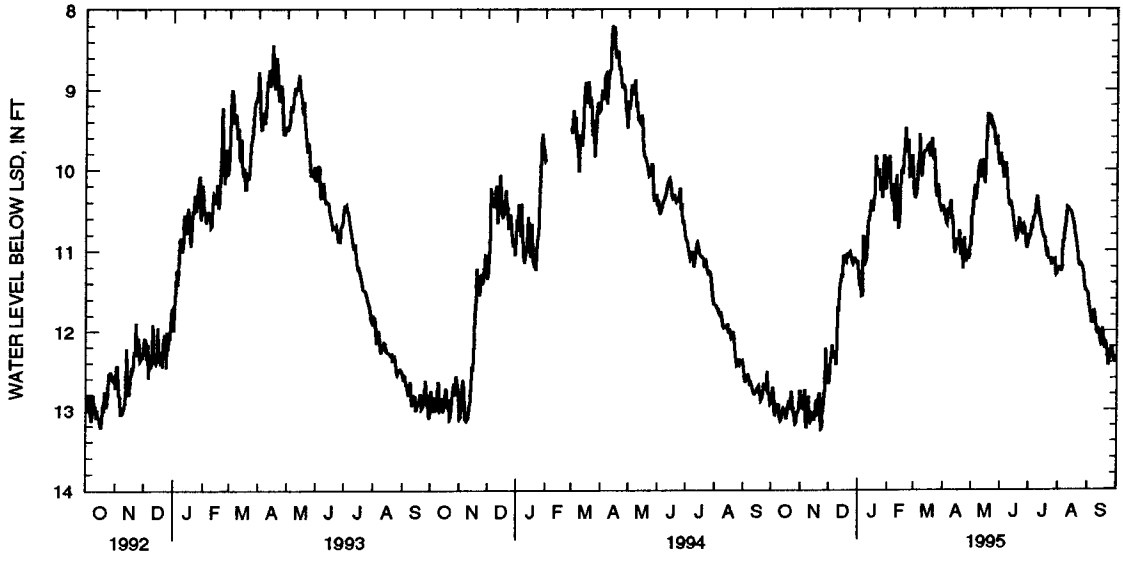
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.20 ft below land-surface datum, Apr. 13, 1994; lowest measured, 19.24 ft below land-surface datum, Jan. 10, 1975.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.82	12.92	12.63	11.25	9.85	10.27	10.45	10.58	9.83	10.84	11.21	11.54
2	12.71	12.98	12.41	11.44	9.90	10.36	10.53	10.56	9.91	10.81	11.23	11.67
3	12.85	12.99	12.31	11.39	9.83	10.31	10.50	10.39	10.01	10.70	11.25	11.75
4	13.08	12.97	12.18	11.56	10.24	10.23	10.66	10.20	10.11	10.71	11.25	11.81
5	13.04	12.74	12.29	11.55	10.35	9.91	10.68	10.38	10.00	10.60	10.89	11.91
6	12.96	13.14	12.35	10.81	10.39	9.89	10.49	10.29	9.91	10.60	10.89	11.86
7	12.99	13.24	12.29	11.09	10.18	9.56	10.54	10.18	10.02	10.54	10.77	11.74
8	12.93	13.02	12.43	11.14	10.64	10.01	10.46	9.98	10.25	10.44	10.70	11.78
9	13.08	12.83	12.22	11.10	10.44	10.09	10.38	9.93	10.41	10.33	10.58	11.90
10	13.14	13.10	11.72	10.89	10.07	9.92	10.62	9.89	10.45	10.42	10.47	12.02
11	13.12	13.16	11.73	10.64	10.40	9.81	10.58	10.08	10.39	10.56	10.48	12.03
12	13.03	13.14	11.46	10.63	10.73	9.77	10.85	10.07	10.46	10.60	10.50	11.99
13	12.98	13.06	11.39	10.53	10.71	9.77	11.03	9.88	10.53	10.67	10.51	12.01
14	13.00	13.08	11.31	10.38	10.59	9.76	10.99	10.11	10.62	10.75	10.54	12.14
15	13.02	13.14	11.31	10.43	10.03	9.71	10.89	10.17	10.72	10.80	10.58	12.20
16	13.12	13.05	11.05	10.52	10.01	9.70	10.91	9.88	10.81	10.83	10.64	11.97
17	13.08	12.88	11.13	10.37	10.06	9.80	10.92	9.53	10.86	10.84	10.69	12.07
18	12.96	13.00	11.12	10.31	9.84	9.84	10.75	9.30	10.84	10.94	10.77	12.23
19	12.89	13.08	11.14	9.83	9.70	9.69	11.05	9.35	10.74	11.03	10.84	12.13
20	13.00	12.80	11.03	10.00	9.48	9.61	10.88	9.33	10.60	11.01	10.92	12.17
21	12.92	12.80	11.07	10.04	9.78	9.88	10.97	9.34	10.67	11.10	11.01	12.26
22	12.77	13.25	11.04	10.05	9.71	9.74	11.22	9.45	10.76	11.10	11.17	12.44
23	13.04	13.24	11.02	10.03	9.63	9.90	10.84	9.43	10.78	11.10	11.18	12.40
24	13.01	13.00	11.06	10.26	10.11	10.22	11.05	9.47	10.73	11.18	11.16	12.32
25	13.10	12.87	11.13	10.20	9.94	10.34	11.14	9.53	10.69	11.10	11.18	12.21
26	13.18	12.75	11.16	10.35	9.91	10.19	11.04	9.70	10.73	11.14	11.21	12.21
27	13.16	12.22	11.13	9.97	9.82	10.22	11.02	9.61	10.87	11.14	11.26	12.31
28	13.03	12.45	11.08	9.82	10.06	10.42	11.11	9.60	10.97	11.12	11.40	12.40
29	13.03	12.54	11.14	10.24	---	10.46	10.94	9.84	10.93	11.30	11.49	12.35
30	12.99	12.67	11.15	10.24	---	10.51	10.93	9.94	10.80	11.28	11.49	12.32
31	12.75	---	11.12	10.06	---	10.50	---	9.86	---	11.22	11.51	---
MAX	13.18	13.25	12.63	11.56	10.73	10.51	11.22	10.58	10.97	11.30	11.51	12.44
MIN	12.71	12.22	11.02	9.82	9.48	9.56	10.38	9.30	9.83	10.33	10.47	11.54

WTR YR 1995 HIGH 9.30 LOW 13.25



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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 4, 1994	75.37	Feb. 7, 1995	74.69	June 27	75.65
Nov. 9	75.21	Mar. 9	74.56	Aug. 21	74.69
Dec. 20	74.88	Apr. 11	75.82		

GROUND-WATER LEVELS

HARDIN COUNTY

373925085540301. Local number OW-6, map number 9.

LOCATION.--Lat 37°39'25", long 85°54'03", Hydrologic Unit 05110001, County Code 093, Cecilia quadrangle, from road U.S 62, 1.8 mi south on Gaither Station Road, 100 ft south on gravel road, 70 ft west of railroad tracks, 150 ft east of Gaither Spring. Owner: City of Elizabethtown.

AQUIFER.--St. Genevieve Limestone of Late Mississippian age. Aquifer Code: 333SGVV.

WELL CHARACTERISTICS.--Drilled unused artesian and water table well, diameter 12 in., depth 100 ft, with 17 ft of 12 in. surface casing.

INSTRUMENTATION.--Digital recorder -- 30-minute punch.

DATUM.--Elevation of land-surface datum is 669.99 ft above sea level. Measuring point: Floor of shelter, 2.8 ft above land-surface datum.

REMARKS.--Water levels affected by stage of nearby Gaither Spring.

PERIOD OF RECORD.--January 1989 to current year.

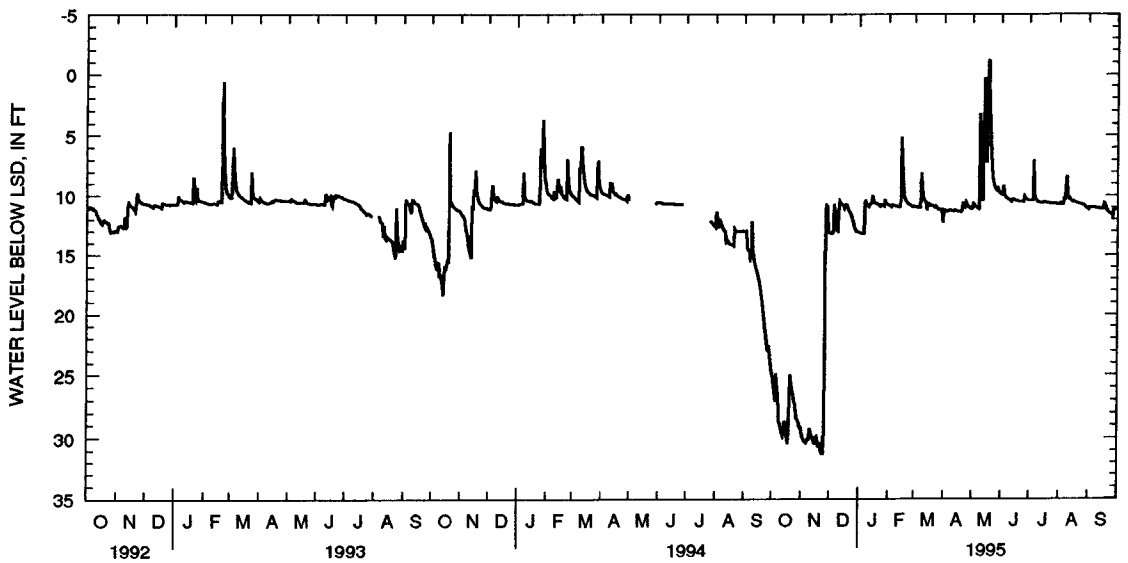
EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 2.61 ft above land surface datum, Feb. 15, 1989; lowest, 31.28 ft below land-surface datum, Nov. 23, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.11	29.45	13.13	13.08	10.80	10.93	11.23	11.10	9.91	10.40	10.75	11.16
2	25.74	29.94	13.16	13.11	10.85	10.94	11.27	10.73	9.93	10.40	10.65	10.98
3	26.41	30.06	13.17	13.14	10.89	10.97	11.30	10.81	9.17	10.41	10.67	10.99
4	27.07	30.24	13.03	13.17	10.96	11.01	11.31	10.91	9.98	10.39	10.74	11.01
5	24.91	30.35	10.75	13.20	10.83	10.99	11.33	10.96	10.10	7.03	10.74	11.02
6	25.91	30.41	11.46	13.18	10.85	11.01	11.25	11.03	10.20	10.04	10.15	11.00
7	26.65	30.32	12.12	10.38	10.86	11.00	11.24	11.09	10.26	10.33	10.41	11.00
8	28.68	30.07	12.85	10.70	10.87	8.09	11.24	11.13	10.32	10.41	9.27	11.03
9	28.87	30.11	12.92	10.85	10.89	9.59	11.26	3.23	10.37	10.52	8.35	11.05
10	29.22	29.31	11.27	10.87	10.91	10.22	11.29	9.28	10.43	10.57	10.03	11.07
11	29.57	29.64	10.51	10.93	10.95	10.39	11.31	10.20	10.52	10.58	10.26	11.08
12	29.80	29.88	10.67	10.78	10.97	10.52	11.23	10.43	10.32	10.60	10.24	11.08
13	29.37	30.07	10.72	10.76	10.98	10.61	11.29	5.51	10.31	10.61	10.40	11.09
14	28.68	30.24	10.77	10.62	10.93	11.24	11.28	.29	10.36	10.63	10.45	11.11
15	28.96	30.53	10.86	9.99	5.16	10.68	11.30	5.24	10.39	10.60	10.53	11.12
16	29.61	29.94	11.08	10.50	7.46	10.71	11.32	7.26	10.39	10.55	10.49	11.11
17	30.08	29.86	10.77	10.65	9.29	10.78	11.33	1.41	10.43	10.57	10.54	10.68
18	30.45	30.24	10.77	10.68	10.14	10.82	11.34	-1.20	10.46	10.59	10.59	10.79
19	27.17	30.65	10.89	10.70	10.37	10.86	11.36	2.62	10.51	10.61	10.61	11.05
20	24.99	30.57	11.09	10.73	10.51	10.86	11.28	4.73	10.53	10.62	10.65	11.22
21	25.61	30.52	11.24	10.77	10.64	10.95	10.77	6.47	10.52	10.64	10.67	11.35
22	26.20	31.18	11.42	10.82	10.71	10.98	10.88	7.98	10.52	10.66	10.70	11.43
23	26.58	31.28	11.58	10.91	10.77	10.91	10.97	8.68	10.52	10.66	10.72	11.50
24	27.08	31.27	11.81	10.79	10.82	11.05	10.58	9.13	10.55	10.66	10.74	11.55
25	27.33	28.20	12.08	10.83	10.87	11.08	10.78	9.33	10.08	10.67	10.76	11.61
26	27.90	11.32	12.42	10.87	10.92	11.14	10.90	9.46	10.22	10.67	10.79	11.75
27	28.48	10.83	12.70	10.91	10.97	11.15	10.99	9.56	10.31	10.68	10.84	11.16
28	28.57	10.87	12.89	10.34	10.90	11.18	11.03	9.44	10.36	10.69	10.89	11.22
29	28.78	12.97	13.00	10.70	---	11.20	11.08	9.69	10.39	10.71	10.98	11.13
30	29.13	13.09	13.00	10.75	---	11.23	11.11	9.78	10.39	10.72	11.04	11.18
31	29.13	---	13.05	10.77	---	12.30	---	9.83	---	10.73	11.10	---
MAX	30.45	31.28	13.17	13.20	10.98	12.30	11.36	11.13	10.55	10.73	11.10	11.75
MIN	24.91	10.83	10.51	9.99	5.16	8.09	10.58	-1.20	9.17	7.03	8.35	10.68

WTR YR 1995 HIGH -1.20 LOW 31.28



GROUND-WATER LEVELS

HARDIN COUNTY

374020085530601. Local number OW-5, 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, 0.30 mi west on gravel road to sewage lagoon parallel to RR tracks, 850 ft south of RR tracks, 100 ft northwest of Valley Creek, 50 ft southeast of abandoned sewage lagoon. Owner: City of Elizabethtown.

AQUIFER.--St. Genevieve Limestone of Late Mississippian age. Aquifer Code: 333SGVV.

WELL CHARACTERISTICS.--Drilled unused artesian and water table well, diameter 6 in, depth 140 ft, with 36 ft of 6 in surface casing.

INSTRUMENTATION.--Digital recorder -- 30-minute punch.

DATUM.--Elevation of land-surface datum is 685.53 ft above National Geodetic Vertical Datum. Measuring point: Floor of shelter, 3.0 ft above land-surface datum.

REMARKS.--Water levels affected by stage of nearby Valley Creek.

PERIOD OF RECORD.--January 1989 through November 1991, and October 1994 to September 1995.

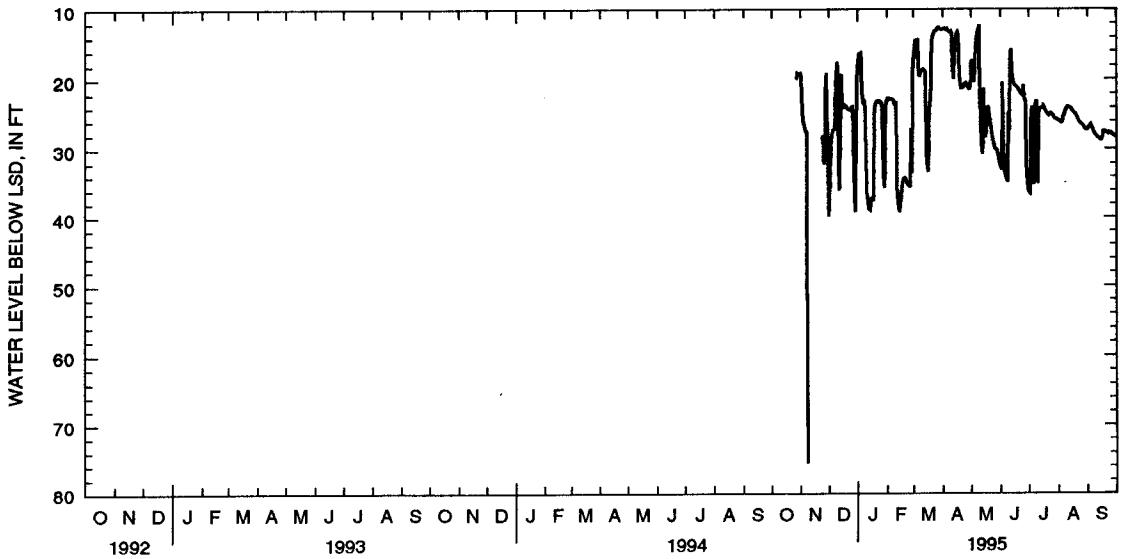
EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 7.41 ft below land surface datum, Feb. 16, 1990; lowest, 75.54 ft below land-surface datum, Nov. 8, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	19.83	39.82	17.34	22.78	16.30	12.82	17.22	32.65	36.31	25.89	27.03
2	---	24.48	34.74	16.35	22.89	15.14	12.76	19.53	33.03	36.49	26.00	26.80
3	---	25.85	29.10	16.29	22.73	14.38	12.91	20.10	20.49	24.95	26.10	26.64
4	---	26.64	28.04	16.21	22.83	16.95	13.03	20.39	32.09	24.00	26.21	26.49
5	---	27.04	27.30	21.64	22.79	14.27	12.87	16.03	33.26	34.81	26.07	26.91
6	---	27.33	27.15	23.15	22.89	18.72	13.10	14.25	33.82	35.18	25.18	27.27
7	---	27.53	26.91	23.03	22.97	19.67	13.31	13.32	34.27	24.08	25.03	27.59
8	---	75.54	21.55	23.11	23.48	19.01	13.16	13.01	34.86	23.36	24.53	27.86
9	---	---	19.22	30.51	23.39	18.85	13.13	12.32	24.81	23.06	24.19	28.00
10	---	---	17.53	36.46	23.37	18.67	13.49	22.57	27.34	35.10	23.97	28.14
11	---	---	32.66	37.30	35.98	18.58	18.66	28.02	17.05	24.86	23.92	28.36
12	---	---	35.96	38.74	37.69	18.71	19.92	30.05	15.77	24.28	24.01	28.44
13	---	---	29.05	38.78	38.66	18.99	16.53	30.70	19.15	24.11	24.05	28.47
14	---	---	19.31	38.95	39.24	30.54	14.68	21.34	20.05	24.11	24.20	28.75
15	---	---	23.12	37.10	38.10	32.29	13.62	26.99	20.64	24.10	24.42	28.70
16	---	---	23.99	37.42	36.03	33.29	13.33	28.32	20.96	23.79	24.62	28.59
17	---	---	23.95	37.43	34.88	25.14	13.85	27.25	21.07	24.06	24.76	27.47
18	---	---	23.70	25.09	34.34	23.43	18.83	24.01	21.18	24.42	24.83	27.39
19	---	---	23.80	23.65	34.20	22.69	20.60	24.01	21.36	24.70	25.01	27.47
20	---	---	24.05	23.26	34.33	14.57	21.30	25.32	21.53	24.87	25.25	27.66
21	---	---	24.20	23.10	34.97	13.89	21.29	26.24	21.77	25.07	25.62	27.75
22	---	---	24.31	23.06	35.13	13.44	21.19	27.33	22.02	25.18	25:97	27.84
23	---	28.52	24.35	23.04	35.30	13.13	21.00	28.17	22.22	24.94	26.21	27.62
24	---	28.08	24.15	23.30	35.49	13.13	20.65	28.91	22.27	24.87	26.23	27.76
25	---	32.08	23.96	23.23	35.47	12.96	20.56	29.53	20.90	24.95	26.40	27.70
26	---	31.00	23.89	23.43	27.09	12.65	20.87	30.02	22.79	25.18	26.60	27.88
27	19.98	20.55	31.78	30.87	33.45	12.64	21.13	30.01	23.17	25.45	26.67	28.09
28	19.17	19.10	37.30	35.04	18.50	12.85	21.37	30.20	32.19	25.67	27.01	28.13
29	19.36	24.29	39.19	35.66	---	12.90	21.31	30.81	34.40	25.72	27.19	28.19
30	19.26	37.85	26.15	23.97	---	12.96	20.79	31.53	35.95	25.69	27.23	28.36
31	19.13	---	19.60	23.11	---	12.94	---	32.25	---	25.86	27.22	---
MAX	---	---	39.82	38.95	39.24	33.29	21.37	32.25	35.95	36.49	27.23	28.75
MIN	---	---	17.53	16.21	18.50	12.64	12.76	12.32	15.77	23.06	23.92	26.49

WTR YR 1995 HIGH 12.32 LOW 75.54



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.

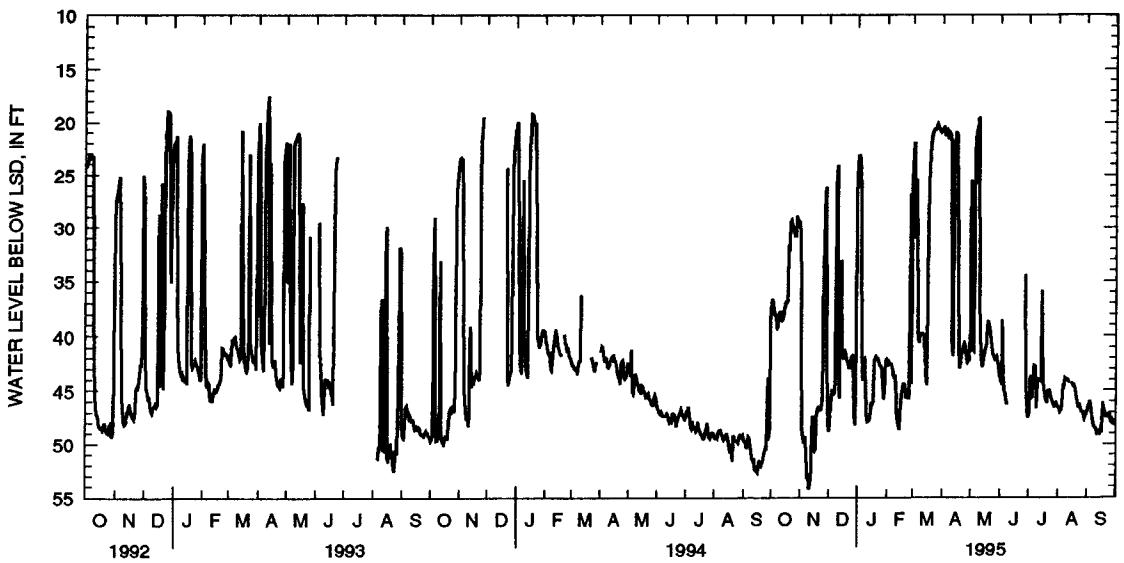
EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 8.99 ft below land surface datum, May 3, 1983; lowest, 78.77 ft below land-surface datum, July 14, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37.19	30.74	48.79	23.85	42.44	23.00	20.63	25.50	43.91	47.09	46.54	46.80
2	36.60	48.42	47.42	23.10	42.74	21.90	20.54	40.10	44.50	44.06	46.80	46.54
3	37.37	49.11	46.01	23.40	42.39	31.00	20.99	41.28	38.57	43.65	47.00	46.22
4	37.83	49.73	45.12	25.50	42.55	25.40	20.78	41.40	43.66	45.71	46.85	46.01
5	38.10	49.63	45.21	41.50	42.54	31.10	20.70	23.50	45.04	45.63	46.37	46.87
6	38.08	49.27	45.34	44.05	42.87	39.90	21.33	21.50	45.31	42.94	44.55	47.41
7	39.23	50.86	45.21	42.20	43.26	40.60	21.61	20.60	45.96	42.68	44.88	48.10
8	39.08	53.26	37.84	42.10	43.85	39.85	21.01	20.50	46.30	42.77	43.88	48.36
9	38.06	53.01	26.15	45.00	43.56	39.80	21.13	19.50	---	46.67	43.99	48.51
10	37.74	54.27	24.05	47.40	44.56	39.80	21.90	37.20	---	44.23	44.02	48.54
11	38.09	53.81	43.10	47.95	47.31	39.85	40.60	41.15	---	43.97	44.01	49.01
12	38.69	52.77	45.73	47.90	47.94	40.00	41.80	42.64	---	44.00	44.30	48.87
13	38.44	48.81	37.00	47.70	48.32	41.20	25.10	42.87	---	44.10	---	48.83
14	37.89	47.37	33.10	47.50	48.67	43.50	22.10	42.10	---	44.30	---	49.19
15	37.34	50.36	41.30	46.10	46.94	44.50	20.89	41.70	---	35.90	44.30	48.70
16	36.93	50.62	42.12	46.30	45.50	34.50	21.24	41.13	---	44.10	44.48	48.78
17	36.98	50.42	41.64	46.07	44.96	26.70	27.50	40.96	---	45.00	44.64	46.19
18	36.81	47.41	41.43	42.40	44.45	24.45	40.70	39.30	---	45.50	44.57	46.58
19	31.89	46.76	41.70	42.00	44.45	22.80	42.95	38.66	---	45.90	44.94	47.00
20	32.00	46.60	42.20	41.87	44.85	21.55	42.48	38.98	---	46.19	45.43	47.37
21	29.44	46.71	42.47	42.04	45.67	21.05	41.80	39.49	---	45.12	46.09	47.45
22	29.29	46.79	42.92	42.04	45.68	20.79	41.40	40.35	---	45.04	46.54	47.46
23	29.75	46.70	42.88	42.31	45.50	20.66	41.00	40.97	---	45.06	46.58	47.13
24	30.18	45.63	42.23	42.69	45.78	20.71	40.70	41.60	---	45.66	46.48	47.48
25	30.48	34.88	41.90	42.70	37.00	20.47	40.95	41.88	---	45.85	46.98	47.41
26	30.83	31.00	41.83	43.04	26.80	20.21	41.83	42.10	---	46.26	47.00	47.88
27	30.80	27.20	44.12	44.51	44.40	20.50	42.39	41.92	34.41	46.30	47.04	47.75
28	28.89	26.10	47.52	45.82	25.00	20.67	42.20	41.85	44.60	46.60	47.50	48.24
29	29.54	44.00	48.22	44.72	---	20.81	42.20	42.39	46.81	46.22	47.65	48.00
30	29.36	48.11	36.00	42.26	---	20.96	40.00	43.06	47.51	46.16	47.30	48.30
31	29.43	---	26.20	42.13	---	20.86	---	43.65	---	46.54	47.24	---
MAX	39.23	54.27	48.79	47.95	48.67	44.50	42.95	43.65	---	47.09	---	49.19
MIN	28.89	26.10	24.05	23.10	25.00	20.21	20.54	19.50	---	35.90	---	46.01

WTR YR 1995 HIGH 19.50 LOW 54.27



GROUND-WATER LEVELS

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.

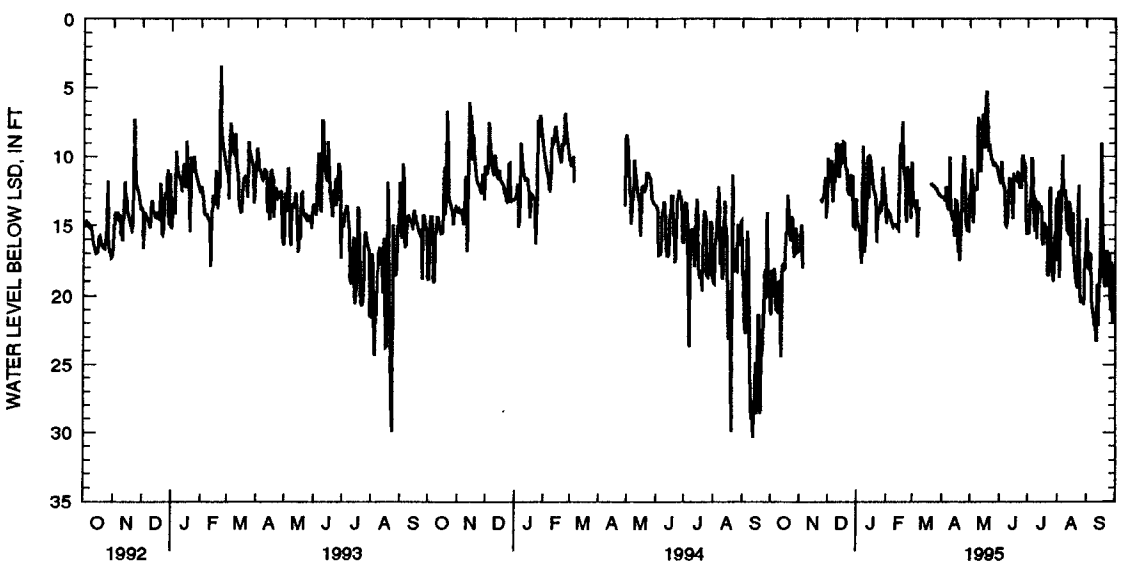
EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 3.41 ft below land surface datum, Feb. 21, 1993; lowest, 49.47 ft below land-surface datum, Oct. 8, 1987.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.35	16.72	10.10	14.80	14.86	13.48	12.97	12.76	11.79	15.25	17.51	14.56
2	18.24	15.46	11.80	14.86	13.88	13.54	12.99	10.97	11.99	15.62	12.52	17.93
3	19.21	14.96	11.71	15.13	14.02	13.64	13.00	11.73	10.34	13.20	18.76	18.08
4	20.03	18.04	10.53	15.34	14.13	13.75	13.25	14.82	11.79	13.14	15.44	16.95
5	18.09	---	10.32	17.12	14.23	13.13	12.23	12.29	12.15	10.08	12.60	17.16
6	20.28	---	13.33	17.71	14.67	15.83	13.56	12.33	12.32	11.79	9.90	20.40
7	21.03	---	11.46	9.24	14.87	13.69	13.74	12.32	14.88	13.99	12.70	21.09
8	21.11	---	11.90	12.58	15.09	---	13.89	12.45	15.05	15.41	12.78	21.48
9	19.09	---	11.13	16.91	14.92	---	10.04	7.24	14.77	13.04	12.43	22.14
10	19.05	---	9.02	15.80	14.94	---	13.73	10.29	13.22	15.94	13.90	22.23
11	20.32	---	10.27	14.64	14.98	---	14.15	10.51	11.65	13.59	15.37	23.32
12	24.41	---	11.30	10.00	15.14	---	14.69	11.12	11.66	13.46	15.50	19.28
13	18.35	---	11.55	13.05	15.23	---	14.17	9.10	12.63	13.61	13.30	22.15
14	17.74	---	9.08	9.90	15.33	---	15.82	7.00	12.77	13.81	13.60	19.56
15	18.17	---	10.60	10.30	10.12	---	13.19	8.44	14.53	13.64	16.48	18.11
16	18.10	---	10.00	11.00	9.00	---	13.25	9.38	11.43	16.12	16.16	9.05
17	15.62	---	8.94	11.70	9.78	---	13.59	6.63	11.55	16.42	14.11	13.60
18	15.50	---	9.00	12.40	7.50	---	16.92	5.27	11.53	14.84	16.94	17.00
19	12.82	---	10.68	12.60	10.86	---	16.52	7.37	11.71	15.08	17.77	18.78
20	13.87	---	10.90	12.80	11.41	12.11	17.53	9.64	11.22	15.23	18.71	19.44
21	15.61	---	10.97	13.71	11.78	12.03	15.03	9.07	11.29	15.36	19.13	17.67
22	16.11	---	12.43	16.20	14.80	12.10	12.29	9.74	12.25	18.65	19.49	16.77
23	14.41	13.10	12.76	14.19	10.77	12.20	10.83	10.18	12.21	17.81	12.10	19.38
24	14.56	13.23	12.78	13.91	12.16	12.24	9.93	10.27	12.23	12.28	16.51	18.70
25	16.66	13.03	11.32	14.02	13.52	12.37	11.27	10.61	9.88	16.00	20.40	17.13
26	17.29	12.97	11.60	13.29	10.95	12.38	14.74	10.67	10.41	17.34	20.45	21.01
27	15.37	12.05	11.44	13.98	14.55	12.58	15.21	10.54	10.50	18.78	20.45	17.62
28	15.22	11.54	15.01	10.82	10.37	12.67	15.38	10.68	10.86	19.00	20.50	21.90
29	16.96	14.47	15.14	11.84	---	12.82	15.41	10.77	15.07	15.78	20.65	20.00
30	16.90	13.99	15.23	12.38	---	12.90	12.89	11.14	15.65	16.00	17.41	17.80
31	16.85	---	13.06	13.24	---	12.91	---	11.38	---	13.05	17.22	---
MAX	24.41	---	15.23	17.71	15.33	---	17.53	14.82	15.65	19.00	20.65	23.32
MIN	12.82	---	8.94	9.24	7.50	---	9.93	5.27	9.88	10.08	9.90	9.05

WTR YR 1995 HIGH 5.27 LOW 24.41



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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 6, 1994	63.83	Apr. 19	61.39	July 11	60.21
Feb. 23, 1995	62.46	June 1	60.47	Aug. 31	60.40

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, 27.36 ft below land-surface datum, May 13, 1994; lowest measured, 42.66 ft below land-surface datum, Oct. 19, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 25, 1994	41.08	May 10, 1995	37.72

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 27, 1994	34.60	May 10, 1995	35.87

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 27, 1994	41.19	May 10, 1995	41.07

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, 25.11 ft below land-surface datum, May 11, 1994; lowest measured, 44.32 ft below land-surface datum, Oct. 19, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 27, 1994	41.63	July 19	38.59
May 10, 1995	35.76		

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 27, 1994	28.10	May 10, 1995	29.24

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, 38.81 ft below land-surface datum, Apr. 30, 1984; lowest measured, 57.75 ft below land-surface datum, Nov. 10, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 27, 1994	54.39	May 10, 1995	49.24

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 27, 1994	42.80	May 10, 1995	44.04

GROUND-WATER LEVELS

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.

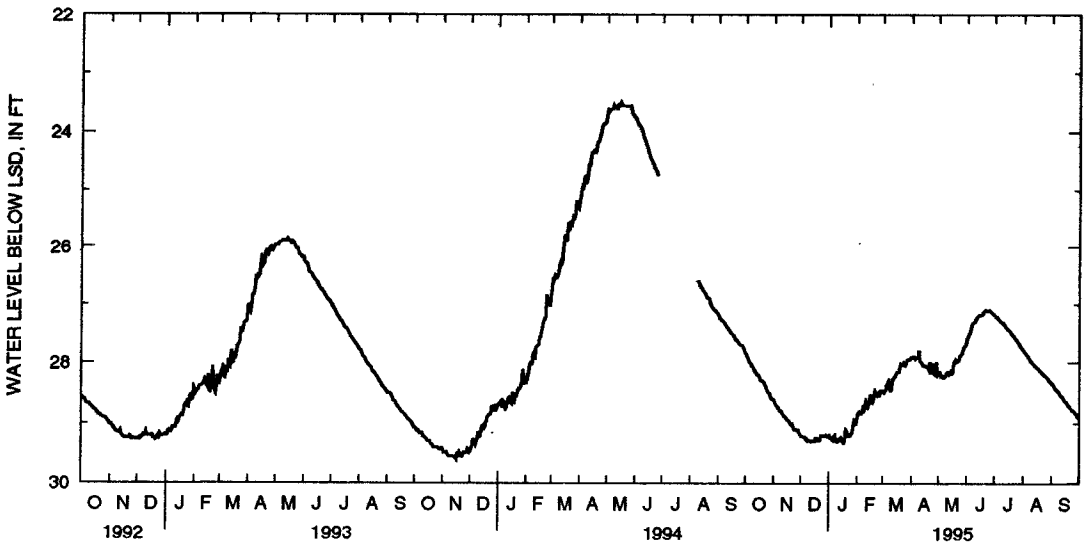
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 21.14 ft below land-surface datum, May 19, 1975; lowest, 40.87 ft below land-surface datum, Feb. 19, 1961.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.86	28.62	29.22	29.20	28.86	28.48	27.91	28.19	27.59	27.19	27.79	28.34
2	27.89	28.67	29.22	29.24	28.86	28.49	27.90	28.17	27.55	27.21	27.81	28.36
3	27.93	28.70	29.22	29.24	28.81	28.46	27.90	28.22	27.51	27.22	27.83	28.38
4	27.97	28.72	29.23	29.26	28.82	28.44	27.90	28.22	27.49	27.23	27.86	28.41
5	28.00	28.74	29.23	29.28	28.84	28.36	27.94	28.24	27.42	27.25	27.87	28.43
6	28.01	28.75	29.26	29.22	28.82	28.34	27.92	28.24	27.35	27.27	27.89	28.44
7	28.04	28.80	29.25	29.20	28.75	28.31	27.91	28.24	27.32	27.29	27.92	28.45
8	28.07	28.80	29.29	29.29	28.78	28.39	27.91	28.22	27.31	27.30	27.95	28.47
9	28.10	28.80	29.28	29.30	28.73	28.47	27.80	28.18	27.30	27.31	27.97	28.49
10	28.11	28.84	29.28	29.30	28.64	28.42	27.97	28.16	27.27	27.31	27.99	28.52
11	28.15	28.87	29.29	29.28	28.68	28.29	27.99	28.18	27.24	27.35	28.01	28.54
12	28.17	28.89	29.30	29.26	28.73	28.26	28.01	28.20	27.21	27.37	28.03	28.55
13	28.20	28.90	29.29	29.27	28.70	28.25	28.04	28.19	27.20	27.39	28.05	28.57
14	28.20	28.91	29.29	29.24	28.66	28.23	28.06	28.15	27.19	27.41	28.06	28.60
15	28.21	28.94	29.29	29.26	28.53	28.19	28.06	28.18	27.18	27.43	28.08	28.63
16	28.25	28.95	29.29	29.31	28.60	28.16	28.06	28.17	27.18	27.44	28.09	28.64
17	28.29	28.96	29.24	29.32	28.68	28.16	28.07	28.02	27.18	27.45	28.10	28.65
18	28.30	28.98	29.24	29.28	28.62	28.16	28.07	27.99	27.16	27.48	28.12	28.68
19	28.30	29.01	29.28	29.11	28.54	28.10	28.09	27.96	27.13	27.50	28.13	28.70
20	28.31	29.02	29.28	29.13	28.47	28.03	28.12	27.99	27.11	27.52	28.14	28.71
21	28.34	29.01	29.28	29.20	28.51	28.04	28.00	27.98	27.10	27.54	28.16	28.74
22	28.37	29.07	29.27	29.21	28.53	28.03	28.15	27.98	27.11	27.56	28.18	28.76
23	28.40	29.10	29.20	29.20	28.47	28.01	28.16	27.96	27.11	27.58	28.20	28.78
24	28.44	29.10	29.20	29.20	28.54	28.05	28.02	27.88	27.11	27.60	28.21	28.79
25	28.48	29.10	29.20	29.17	28.54	28.05	28.17	27.86	27.10	27.62	28.22	28.80
26	28.50	29.11	29.21	29.16	28.45	28.01	28.19	27.85	27.11	27.65	28.24	28.82
27	28.50	29.12	29.21	29.07	28.45	27.96	28.17	27.81	27.13	27.67	28.25	28.84
28	28.56	29.12	29.20	28.98	28.45	27.95	28.00	27.74	27.15	27.69	28.27	28.87
29	28.59	29.17	29.21	29.02	---	27.95	28.20	27.72	27.16	27.72	28.30	28.89
30	28.60	29.19	29.21	29.02	---	27.95	28.18	27.71	27.17	27.75	28.31	28.91
31	28.60	---	29.21	28.97	---	27.93	---	27.66	---	27.77	28.32	---
MAX	28.60	29.19	29.30	29.32	28.86	28.49	28.20	28.24	27.59	27.77	28.32	28.91
MIN	27.86	28.62	29.20	28.97	28.45	27.93	27.80	27.66	27.10	27.19	27.79	28.34

WTR YR 1995 HIGH 27.10 LOW 29.32



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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 27, 1994	35.76	May 10, 1995	36.95

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 Johnsontown 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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	19.63	May 10, 1995	18.10

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 Johnsontown Road, 0.9 mi west of junction of Dixie Highway and Johnsontown Road, on the south shoulder of Johnsontown 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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	33.41	May 10, 1995	34.18

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	38.77	May 10, 1995	40.24

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	29.53	May 10, 1995	30.46

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	16.50	May 10, 1995	18.27

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, 50.99 ft below land-surface datum, Oct. 26, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	50.99	May 10, 1995	50.37

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	24.21	May 10, 1995	25.53

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 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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	37.31	May 10, 1995	37.68

GROUND-WATER LEVELS

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.

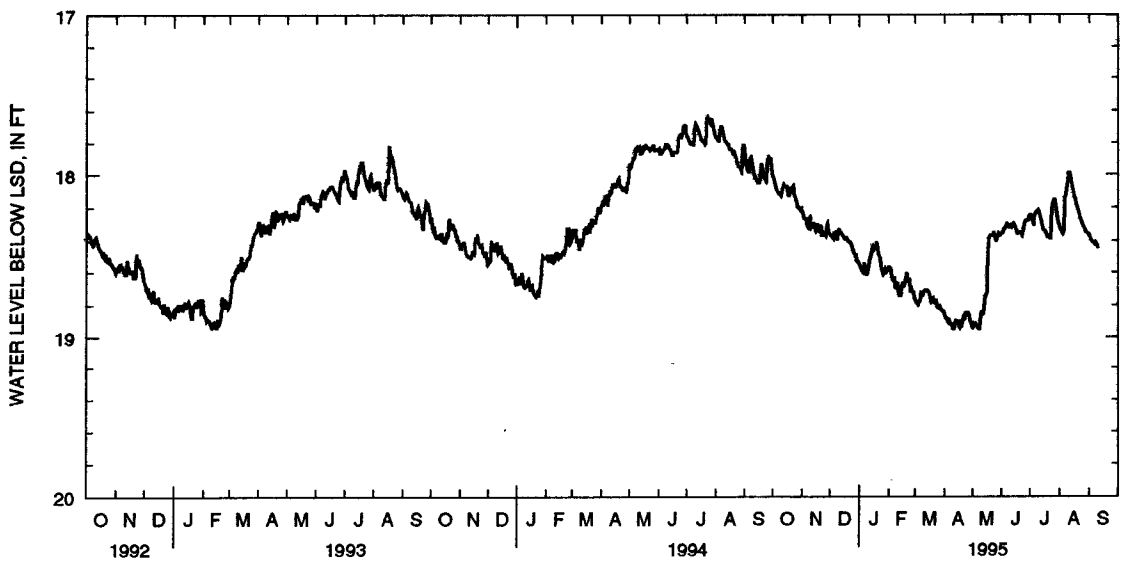
EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 15.38 ft below land-surface datum, Apr. 14, 1980; lowest 31.55 ft below land-surface datum, Apr. 2, 1957.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.02	18.23	18.37	18.55	18.56	18.77	18.86	18.94	18.36	18.25	18.33	18.37
2	18.04	18.26	18.37	18.57	18.59	18.78	18.88	18.92	18.35	18.27	18.34	18.39
3	18.07	18.27	18.38	18.58	18.57	18.79	18.88	18.93	18.33	18.28	18.35	18.40
4	18.09	18.27	18.39	18.59	18.62	18.80	18.90	18.92	18.33	18.31	18.36	18.41
5	18.10	18.28	18.35	18.60	18.64	18.78	18.91	18.93	18.31	18.25	18.34	18.41
6	18.11	18.31	18.37	18.54	18.65	18.78	18.90	18.94	18.30	18.24	18.14	18.42
7	18.12	18.32	18.34	18.60	18.64	18.73	18.92	18.95	18.31	18.23	18.13	18.41
8	18.12	18.27	18.40	18.61	18.70	18.74	18.92	18.95	18.32	18.23	18.09	18.42
9	18.13	18.26	18.36	18.61	18.68	18.74	18.93	18.89	18.32	18.22	18.05	18.43
10	18.10	18.32	18.33	18.58	18.66	18.72	18.95	18.84	18.31	18.24	17.99	18.45
11	18.08	18.31	18.35	18.55	18.72	18.71	18.95	18.86	18.32	18.26	17.99	---
12	18.06	18.30	18.35	18.52	18.74	18.71	18.92	18.86	18.31	18.28	18.01	---
13	18.07	18.30	18.36	18.50	18.74	18.71	18.90	18.82	18.30	18.31	18.05	---
14	18.07	18.32	18.37	18.46	18.74	18.71	18.90	18.76	18.31	18.33	18.08	---
15	18.07	18.34	18.38	18.44	18.68	18.72	18.92	18.74	18.32	18.34	18.11	---
16	18.10	18.32	18.39	18.46	18.66	18.73	18.93	18.72	18.34	18.34	18.14	---
17	18.13	18.30	18.38	18.45	18.69	18.76	18.94	18.48	18.36	18.35	18.16	---
18	18.13	18.32	18.38	18.45	18.66	18.78	18.90	18.39	18.36	18.37	18.18	---
19	18.08	18.35	18.40	18.41	18.64	18.77	18.94	18.37	18.35	18.38	18.20	---
20	18.08	18.33	18.40	18.45	18.60	18.76	18.90	18.37	18.35	18.38	18.22	---
21	18.08	18.31	18.41	18.49	18.66	18.79	18.88	18.37	18.36	18.39	18.24	---
22	18.07	18.37	18.41	18.50	18.64	18.77	18.90	18.37	18.37	18.39	18.27	---
23	18.13	18.37	18.42	18.51	18.64	18.77	18.85	18.35	18.34	18.23	18.28	---
24	18.14	18.36	18.44	18.57	18.72	18.81	18.85	18.37	18.31	18.18	18.29	---
25	18.16	18.36	18.46	18.59	18.70	18.82	18.86	18.40	18.29	18.17	18.31	---
26	18.18	18.37	18.48	18.61	18.72	18.82	18.85	18.40	18.28	18.15	18.32	---
27	18.20	18.31	18.49	18.60	18.72	18.81	18.86	18.38	18.28	18.18	18.33	---
28	18.20	18.30	18.49	18.58	18.75	18.83	18.90	18.36	18.28	18.21	18.35	---
29	18.21	18.34	18.53	18.60	---	18.83	18.91	18.37	18.26	18.26	18.35	---
30	18.22	18.36	18.53	18.59	---	18.84	18.93	18.37	18.25	18.29	18.36	---
31	18.21	---	18.54	18.59	---	18.84	---	18.36	---	18.31	18.36	---
MAX	18.22	18.37	18.54	18.61	18.75	18.84	18.95	18.95	18.37	18.39	18.36	---
MIN	18.02	18.23	18.33	18.41	18.56	18.71	18.85	18.35	18.25	18.15	17.99	---

WTR YR 1995 HIGH 17.99 LOW 18.95



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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	25.28	May 9, 1995	26.39

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 quad 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, 21.35 ft below land-surface datum, May 7, 1991; lowest measured, 24.76 ft below land-surface datum, Oct. 18, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	22.19	May 9, 1995	22.70

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	29.33	May 9, 1995	29.87

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	45.67	May 9, 1995	No. Meas.

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	26.37	May 9, 1995	27.37

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	23.52	May 9, 1995	23.90

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	25.84	May 9, 1995	26.21

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	13.41	May 9, 1995	12.69

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	30.17	May 9, 1995	30.56

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	17.35	May 9, 1995	17.83

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, 20.50 ft below land-surface datum, Apr. 20, 1948; 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. 26, 1994	45.86	May 9, 1995	38.19

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	39.55	May 9, 1995	39.13

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.

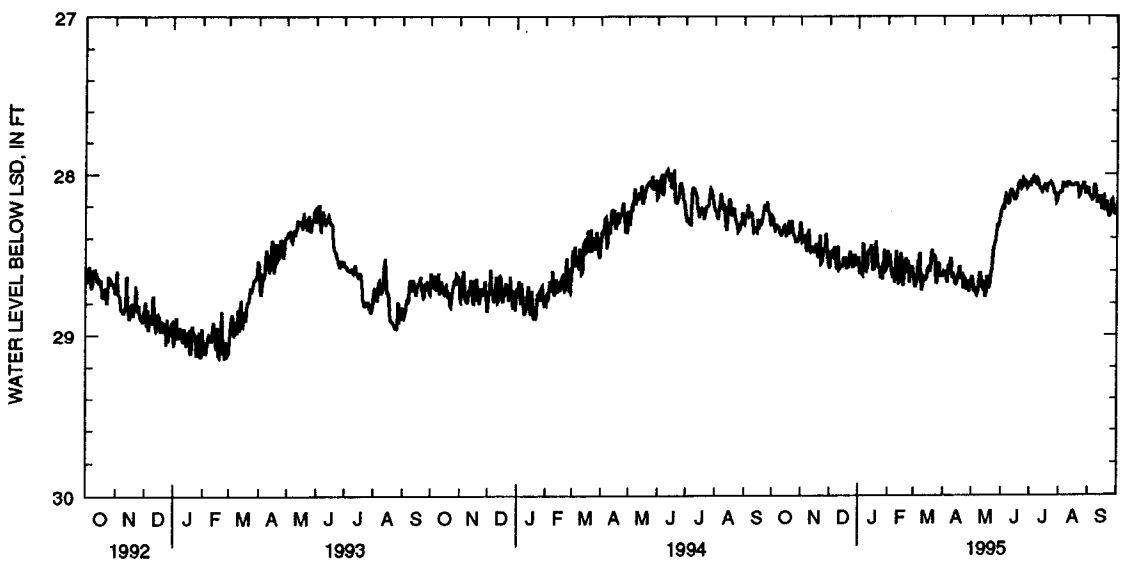
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 26.44 ft below land-surface datum, Jan. 11, 1985; lowest, 88.37 ft below land-surface datum, Mar. 9, 1944.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.26	28.32	28.58	28.52	28.48	28.67	28.61	28.63	28.23	28.07	28.12	28.09
2	28.27	28.42	28.51	28.60	28.52	28.70	28.63	28.66	28.21	28.07	28.12	28.13
3	28.31	28.41	28.48	28.59	28.50	28.67	28.60	28.73	28.20	28.03	28.11	28.14
4	28.36	28.41	28.48	28.61	28.56	28.66	28.64	28.70	28.21	28.03	28.11	28.15
5	28.33	28.38	28.47	28.62	28.61	28.54	28.67	28.74	28.16	28.02	28.05	28.17
6	28.32	28.43	28.53	28.43	28.64	28.57	28.58	28.75	28.13	28.05	28.07	28.14
7	28.33	28.48	28.45	28.51	28.58	28.49	28.59	28.73	28.14	28.05	28.08	28.07
8	28.33	28.40	28.59	28.59	28.67	28.66	28.55	28.68	28.17	28.06	28.08	28.07
9	28.36	28.34	28.47	28.60	28.60	28.72	28.52	28.61	28.19	28.03	28.08	28.10
10	28.38	28.45	28.45	28.57	28.48	28.68	28.64	28.61	28.13	28.04	28.05	28.18
11	28.38	28.48	28.59	28.49	28.59	28.64	28.61	28.69	28.10	28.08	28.05	28.18
12	28.35	28.47	28.58	28.47	28.68	28.65	28.63	28.70	28.10	28.09	28.06	28.14
13	28.33	28.45	28.57	28.50	28.66	28.65	28.67	28.66	28.12	28.10	28.07	28.14
14	28.32	28.45	28.57	28.44	28.65	28.64	28.68	28.70	28.13	28.11	28.07	28.18
15	28.35	28.49	28.57	28.50	28.49	28.59	28.67	28.76	28.16	28.09	28.07	28.22
16	28.39	28.46	28.52	28.59	28.61	28.58	28.63	28.73	28.16	28.08	28.07	28.15
17	28.37	28.43	28.52	28.59	28.69	28.60	28.62	28.63	28.14	28.07	28.07	28.14
18	28.33	28.46	28.52	28.58	28.64	28.60	28.57	28.65	28.10	28.09	28.06	28.23
19	28.29	28.52	28.59	28.42	28.59	28.52	28.65	28.71	28.06	28.10	28.06	28.20
20	28.36	28.45	28.56	28.48	28.52	28.47	28.63	28.67	28.05	28.07	28.06	28.17
21	28.35	28.38	28.58	28.56	28.61	28.52	28.61	28.62	28.07	28.06	28.08	28.21
22	28.29	28.55	28.54	28.58	28.59	28.53	28.71	28.59	28.09	28.06	28.14	28.25
23	28.36	28.54	28.48	28.58	28.54	28.50	28.64	28.53	28.08	28.05	28.13	28.27
24	28.38	28.49	28.52	28.64	28.67	28.67	28.65	28.47	28.03	28.06	28.10	28.22
25	28.39	28.46	28.54	28.62	28.62	28.67	28.71	28.44	28.04	28.07	28.08	28.17
26	28.42	28.48	28.58	28.65	28.60	28.61	28.71	28.42	28.04	28.10	28.07	28.16
27	28.42	28.37	28.55	28.56	28.57	28.55	28.66	28.37	28.07	28.12	28.05	28.21
28	28.42	28.42	28.50	28.47	28.61	28.62	28.73	28.31	28.09	28.12	28.09	28.25
29	28.41	28.52	28.57	28.60	---	28.63	28.69	28.33	28.08	28.18	28.12	28.25
30	28.39	28.56	28.55	28.59	---	28.63	28.65	28.30	28.06	28.17	28.12	28.24
31	28.30	---	28.52	28.57	---	28.63	---	28.26	---	28.13	28.09	---
MAX	28.42	28.56	28.59	28.65	28.69	28.72	28.73	28.76	28.23	28.18	28.14	28.27
MIN	28.26	28.32	28.45	28.42	28.48	28.47	28.52	28.26	28.03	28.02	28.05	28.07

WTR YR 1995 HIGH 28.02 LOW 28.76



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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	29.70	May 8, 1995	30.00

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, 41.72 ft below land-surface datum, Apr. 25, 1985; lowest measured, 78.99 ft below land-surface datum, Nov. 1, 1957.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	42.55	May 9, 1995	42.86

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, 46.53 ft below land-surface datum, May 6, 1991; lowest measured, 78.35 ft below land-surface datum, Mar. 20, 1961.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	47.72	May 9, 1995	47.62

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	25.54	May 8, 1995	25.79

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 26, 1994	55.05	May 9, 1995	45.08

GROUND-WATER LEVELS

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.

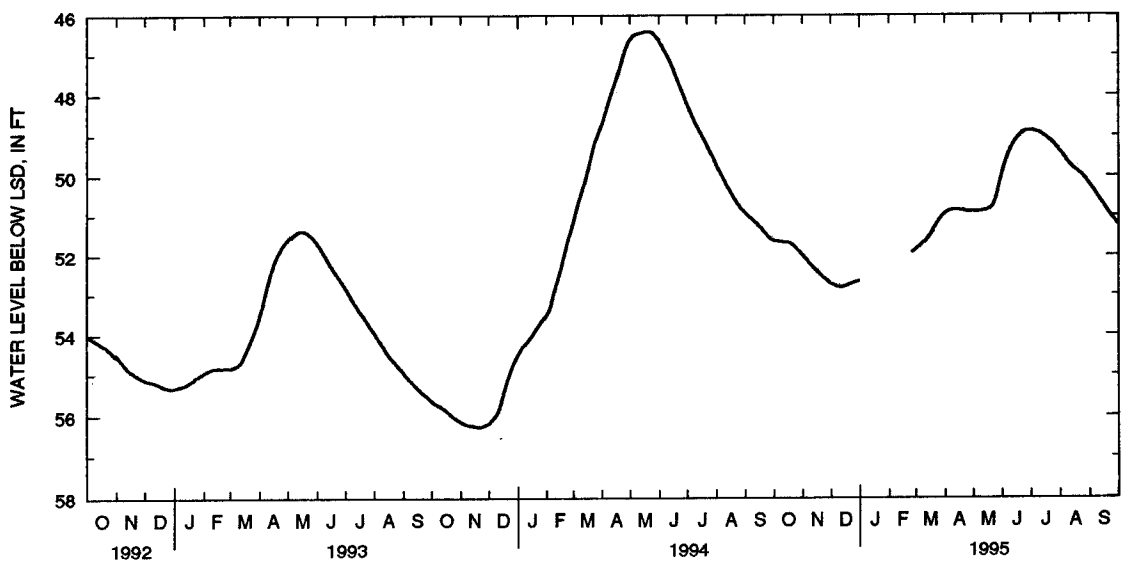
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 44.34 ft below land-surface datum, May 23, 1984; lowest, 87.29 ft below land-surface datum, Nov. 13, 1964.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51.62	52.01	52.73	---	---	51.85	50.94	50.90	49.87	48.89	49.41	50.24
2	51.63	52.04	52.74	---	---	51.83	50.92	50.90	49.79	48.89	49.44	50.27
3	51.63	52.07	52.75	---	---	51.81	50.90	50.90	49.72	48.89	49.47	50.30
4	51.64	52.09	52.76	---	---	51.79	50.89	50.90	49.65	48.89	49.50	50.34
5	51.64	52.12	52.77	---	---	51.77	50.88	50.90	49.59	48.90	49.54	50.37
6	51.65	52.15	52.78	---	---	51.75	50.87	50.90	49.53	48.90	49.57	50.41
7	51.65	52.18	52.79	---	---	51.73	50.86	50.89	49.46	48.91	49.60	50.45
8	51.65	52.20	52.80	---	---	51.71	50.86	50.89	49.41	48.92	49.64	50.48
9	51.65	52.23	52.80	---	---	51.69	50.85	50.89	49.35	48.92	49.67	50.52
10	51.66	52.25	52.81	---	---	51.67	50.85	50.88	49.30	48.93	49.69	50.55
11	51.66	52.28	52.81	---	---	51.65	50.85	50.88	49.26	48.94	49.72	50.59
12	51.66	52.31	52.81	---	---	51.62	50.85	50.87	49.21	48.96	49.75	50.62
13	51.66	52.33	52.81	---	---	51.59	50.85	50.87	49.18	48.97	49.77	50.66
14	51.66	52.36	52.80	---	---	51.56	50.85	50.86	49.14	48.99	49.80	50.69
15	51.66	52.38	52.80	---	---	51.53	50.85	50.86	49.11	49.00	49.82	50.73
16	51.67	52.41	52.79	---	---	51.49	50.86	50.85	49.08	49.02	49.84	50.77
17	51.68	52.43	52.78	---	---	51.46	50.86	50.84	49.05	49.04	49.86	50.80
18	51.69	52.45	52.77	---	---	51.42	50.86	50.83	49.03	49.06	49.87	50.84
19	51.70	52.48	52.76	---	---	51.38	50.87	50.81	49.00	49.08	49.89	50.87
20	51.72	52.50	52.75	---	---	51.33	50.87	50.79	48.97	49.10	49.91	50.90
21	51.74	52.52	52.74	---	---	51.29	50.87	50.77	48.95	49.12	49.93	50.94
22	51.76	52.55	52.73	---	---	51.25	50.88	50.73	48.93	49.14	49.95	50.97
23	51.78	52.57	52.72	---	---	51.20	50.89	50.68	48.92	49.17	49.97	51.00
24	51.80	52.59	52.71	---	---	51.17	50.89	50.61	48.91	49.19	50.00	51.04
25	51.83	52.61	52.70	---	51.93	51.13	50.89	50.53	48.90	49.21	50.02	51.07
26	51.85	52.63	52.69	---	51.91	51.09	50.90	50.44	48.89	49.24	50.05	51.09
27	51.88	52.65	52.68	---	51.89	51.06	50.90	50.34	48.89	49.27	50.08	51.13
28	51.90	52.67	52.67	---	51.87	51.03	50.90	50.24	48.89	49.29	50.11	51.16
29	51.93	52.69	52.67	---	---	51.00	50.90	50.14	48.89	49.32	50.14	51.19
30	51.96	52.71	52.66	---	---	50.98	50.90	50.05	48.89	49.35	50.17	51.22
31	51.98	---	52.66	---	---	50.96	---	49.96	---	49.38	50.20	---
MAX	51.98	52.71	52.81	---	---	51.85	50.94	50.90	49.87	49.38	50.20	51.22
MIN	51.62	52.01	52.66	---	---	50.96	50.85	49.96	48.89	48.89	49.41	50.24

WTR YR 1995 HIGH 48.89 LOW 52.81



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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	24.60	May 8, 1995	24.94

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	39.08	May 8, 1995	38.97

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 1994 TO SEPTEMBER 1995

Date	Water Flow	Date	Water Flow
Oct. 26, 1994	.03 gal/min	May 9, 1995	.02 gal/min

GROUND-WATER LEVELS

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	31.98	May 8, 1995	32.33

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	33.03	May 8, 1995	33.16

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, 46.22 ft below land-surface datum, Apr. 26, 1984; lowest measured, 77.08 ft below land-surface datum, Dec. 17, 1954.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	57.22	May 8, 1995	53.34

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	26.02	May 8, 1995	26.32

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	28.11	May 8, 1995	28.47

GROUND-WATER LEVELS

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.

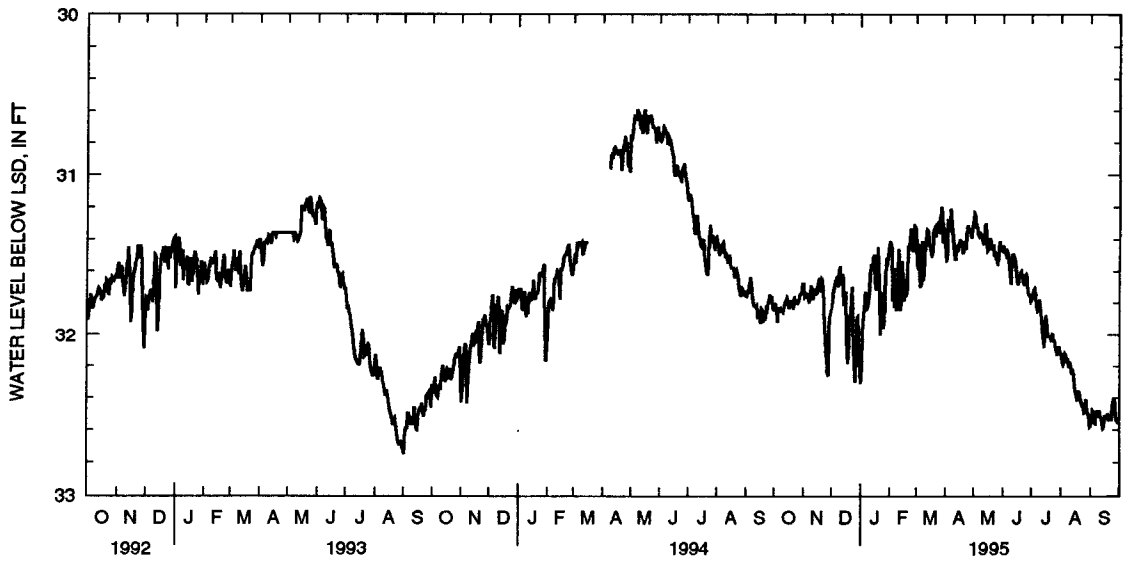
EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 28.09 ft below land-surface datum, May 20, 1984; lowest, 77.82 ft below land-surface datum, Sept. 18, 1955.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31.81	31.68	31.84	32.31	31.41	31.47	31.49	31.24	31.44	31.78	32.12	32.57
2	31.81	31.76	31.78	32.22	31.43	31.58	31.54	31.25	31.47	31.76	32.17	32.54
3	31.85	31.75	31.73	31.97	31.46	31.43	31.29	31.32	31.48	31.72	32.19	32.48
4	31.92	31.77	31.70	31.89	31.79	31.62	31.30	31.32	31.50	31.71	32.17	32.49
5	31.85	31.74	31.67	31.83	31.58	31.70	31.35	31.37	31.48	31.75	32.12	32.54
6	31.83	31.78	31.68	31.73	31.83	31.68	31.21	31.38	31.50	31.82	32.13	32.57
7	31.86	31.80	31.63	31.81	31.73	31.41	31.31	31.35	31.55	31.85	32.17	32.48
8	31.84	31.75	31.70	31.83	31.85	31.66	31.36	31.37	31.62	31.84	32.15	32.52
9	31.85	31.69	31.61	31.81	31.63	31.62	31.42	31.37	31.68	31.78	32.21	32.50
10	31.86	31.76	31.57	31.74	31.46	31.47	31.49	31.41	31.52	31.83	32.17	32.48
11	31.83	31.78	31.68	31.62	31.72	31.41	31.53	31.43	31.49	31.89	32.20	32.51
12	31.80	31.74	31.68	31.56	31.85	31.34	31.47	31.41	31.51	31.97	32.25	32.53
13	31.79	31.71	31.62	31.59	31.64	31.35	31.45	31.30	31.53	32.03	32.22	32.55
14	31.77	31.73	31.80	31.52	31.54	31.43	31.46	31.37	31.56	32.08	32.25	32.59
15	31.79	31.75	31.79	31.50	31.76	31.44	31.43	31.47	31.63	31.93	32.33	32.58
16	31.83	31.69	31.73	31.61	31.79	31.47	31.40	31.46	31.68	31.88	32.36	32.51
17	31.83	31.66	32.05	31.72	31.65	31.51	31.42	31.43	31.68	31.93	32.39	32.53
18	31.82	31.67	32.18	31.62	31.76	31.46	31.42	31.39	31.63	32.01	32.42	32.53
19	31.79	31.73	32.12	31.45	31.72	31.34	31.49	31.46	31.61	32.01	32.36	32.50
20	31.79	31.65	31.88	31.61	31.44	31.33	31.41	31.46	31.60	32.01	32.36	32.54
21	31.84	31.66	31.92	31.77	31.46	31.38	31.44	31.43	31.64	32.03	32.39	32.54
22	31.76	31.76	31.82	32.00	31.40	31.31	31.46	31.50	31.67	32.01	32.43	32.54
23	31.80	31.95	31.70	31.83	31.33	31.30	31.36	31.48	31.69	31.99	32.45	32.54
24	31.79	32.06	32.02	31.74	31.45	31.34	31.31	31.52	31.63	32.04	32.45	32.45
25	31.79	32.14	32.19	31.96	31.47	31.36	31.35	31.52	31.62	32.04	32.49	32.42
26	31.80	32.24	32.30	31.92	31.47	31.27	31.35	31.56	31.65	32.09	32.48	32.40
27	31.79	32.26	32.14	31.66	31.32	31.20	31.33	31.49	31.73	32.10	32.41	32.49
28	31.75	31.94	31.90	31.54	31.33	31.25	31.39	31.41	31.75	32.13	32.47	32.54
29	31.75	31.89	31.89	31.55	---	31.42	31.32	31.46	31.75	32.08	32.50	32.55
30	31.73	31.86	32.09	31.50	---	31.36	31.28	31.46	31.79	32.08	32.51	32.56
31	31.68	---	32.23	31.45	---	31.33	---	31.47	---	32.12	32.58	---
MAX	31.92	32.26	32.30	32.31	31.85	31.70	31.54	31.56	31.79	32.13	32.58	32.59
MIN	31.68	31.65	31.57	31.45	31.32	31.20	31.21	31.24	31.44	31.71	32.12	32.40

WTR YR 1995 HIGH 31.20 LOW 32.59



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.

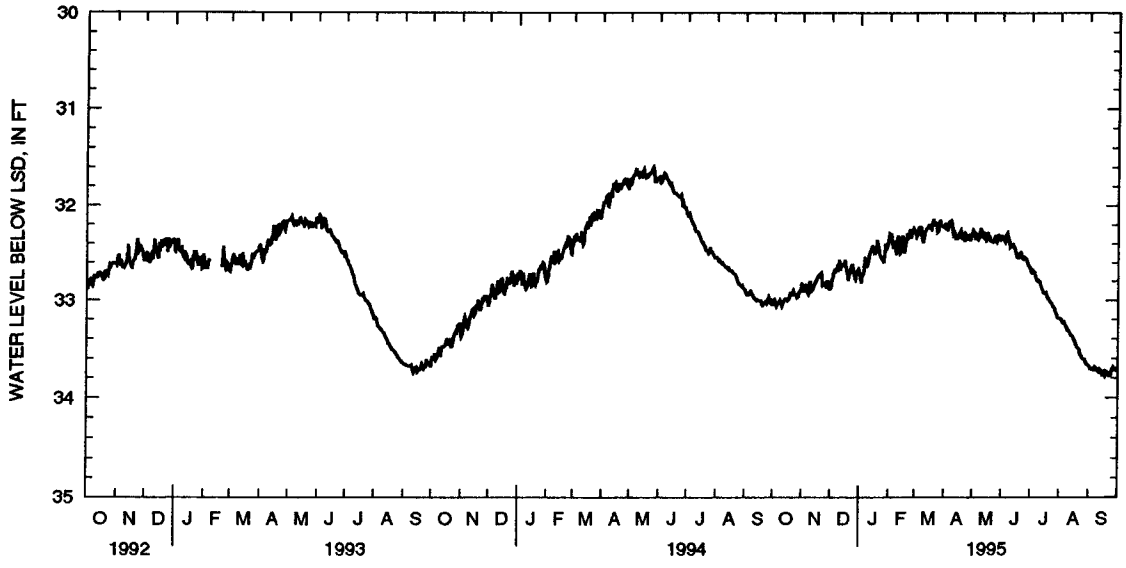
EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 28.80 ft below land-surface datum, June 2, 1984; lowest, 86.85 ft below land-surface datum, Sept. 20, 1955.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.00	32.84	32.87	32.74	32.31	32.28	32.20	32.26	32.32	32.70	33.19	33.68
2	32.99	32.91	32.79	32.82	32.33	32.32	32.25	32.28	32.33	32.71	33.20	33.71
3	33.03	32.88	32.76	32.74	32.29	32.29	32.22	32.33	32.36	32.69	33.23	33.71
4	33.06	32.87	32.71	32.73	32.38	32.26	32.26	32.31	32.38	32.71	33.24	33.71
5	33.04	32.83	32.68	32.70	32.43	32.22	32.22	32.35	32.31	32.71	33.23	33.72
6	33.02	32.91	32.69	32.54	32.42	32.31	32.17	32.36	32.29	32.76	33.26	33.72
7	33.02	32.93	32.66	32.62	32.37	32.22	32.17	32.34	32.34	32.79	33.27	33.69
8	33.00	32.85	32.70	32.64	32.51	32.33	32.16	32.29	32.36	32.80	33.29	33.70
9	33.03	32.80	32.63	32.63	32.45	32.39	32.19	32.25	32.44	32.79	33.32	33.72
10	33.06	32.90	32.57	32.56	32.31	32.33	32.30	32.26	32.43	32.80	33.32	33.73
11	33.03	32.89	32.68	32.51	32.38	32.28	32.28	32.32	32.42	32.83	33.34	33.74
12	33.01	32.88	32.63	32.48	32.50	32.26	32.31	32.33	32.41	32.86	33.36	33.71
13	32.99	32.84	32.62	32.47	32.49	32.24	32.35	32.30	32.44	32.89	33.37	33.72
14	32.98	32.82	32.62	32.42	32.43	32.23	32.35	32.33	32.45	32.92	33.38	33.74
15	32.98	32.80	32.63	32.45	32.31	32.20	32.33	32.38	32.49	32.93	33.40	33.78
16	33.00	32.78	32.57	32.50	32.45	32.20	32.30	32.28	32.53	32.93	33.42	33.74
17	32.99	32.76	32.66	32.50	32.49	32.24	32.28	32.32	32.55	32.92	33.45	33.73
18	32.97	32.74	32.70	32.48	32.42	32.25	32.26	32.32	32.55	32.96	33.47	33.78
19	32.93	32.73	32.79	32.36	32.36	32.18	32.35	32.37	32.50	32.98	33.49	33.76
20	32.94	32.72	32.74	32.41	32.29	32.14	32.31	32.37	32.49	32.99	33.50	33.74
21	32.93	32.71	32.71	32.46	32.35	32.21	32.30	32.38	32.52	33.01	33.51	33.75
22	32.90	32.84	32.67	32.52	32.29	32.18	32.38	32.38	32.55	33.02	33.56	33.78
23	32.94	32.83	32.63	32.54	32.25	32.18	32.30	32.35	32.56	33.03	33.57	33.78
24	32.94	32.82	32.63	32.56	32.34	32.28	32.32	32.33	32.54	33.06	33.59	33.74
25	32.94	32.83	32.70	32.55	32.27	32.27	32.35	32.36	32.55	33.07	33.60	33.71
26	32.97	32.87	32.76	32.60	32.28	32.21	32.35	32.38	32.56	33.09	33.61	33.69
27	32.96	32.79	32.78	32.50	32.24	32.15	32.30	32.34	32.59	33.12	33.61	33.71
28	32.92	32.86	32.70	32.40	32.26	32.20	32.37	32.30	32.63	33.14	33.64	33.72
29	32.91	32.88	32.69	32.46	---	32.21	32.31	32.35	32.64	33.18	33.66	33.71
30	32.90	32.88	32.67	32.42	---	32.22	32.29	32.36	32.66	33.19	33.66	33.73
31	32.83	---	32.70	32.37	---	32.21	---	32.34	---	33.19	33.67	---
MAX	33.06	32.93	32.87	32.82	32.51	32.39	32.38	32.38	32.66	33.19	33.67	33.78
MIN	32.83	32.71	32.57	32.36	32.24	32.14	32.16	32.25	32.29	32.69	33.19	33.68

WTR YR 1995 HIGH 32.14 LOW 33.78



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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	37.14	May 8, 1995	37.22

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	38.66	May 8, 1995	37.55

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, 47.02 ft below land-surface datum, Oct. 17, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	46.98	May 8, 1995	46.43

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	37.88	May 8, 1995	37.03

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	35.63	May 8, 1995	34.41

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	44.40	May 8, 1995	42.82

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	47.20	May 8, 1995	45.68

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.

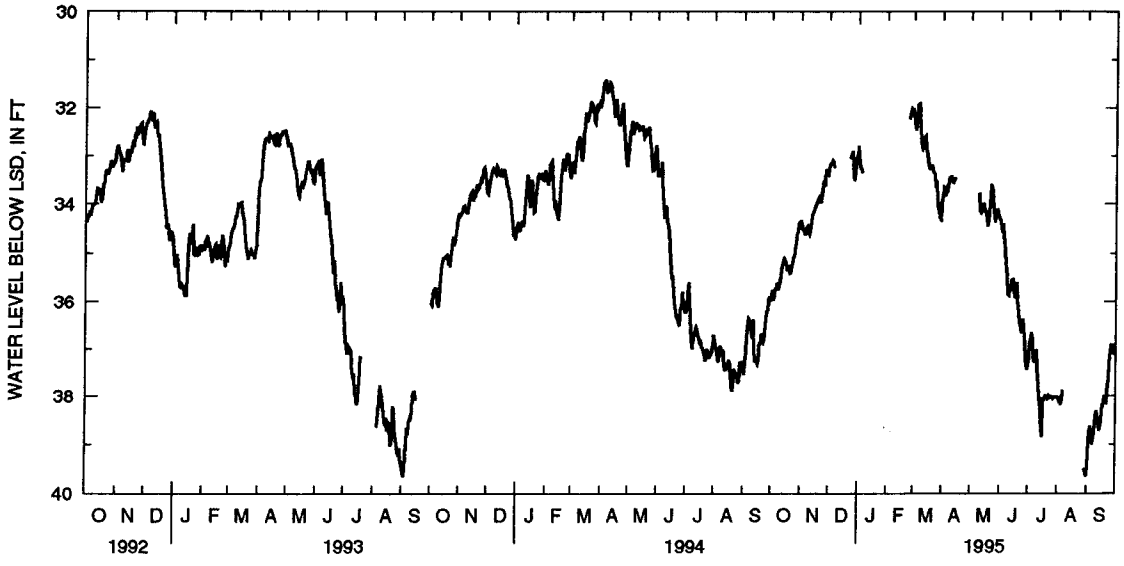
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 30.99 ft below land-surface datum, Nov. 11 1986; lowest, 39.64 ft below land-surface datum, Sept. 2-3, 1993, Aug. 31, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35.84	34.45	33.23	32.80	---	32.13	33.82	---	34.35	37.19	38.05	39.63
2	35.75	34.40	33.16	33.15	---	32.39	33.68	---	34.46	36.86	38.09	39.23
3	35.96	34.50	33.16	33.22	---	32.45	33.73	---	34.52	36.77	38.02	38.90
4	35.80	34.53	33.09	33.28	---	32.26	33.83	---	34.46	36.65	38.18	38.64
5	35.73	34.60	33.12	33.34	---	31.95	33.67	---	34.62	36.78	38.06	38.82
6	35.72	34.60	33.24	---	---	31.92	33.69	---	34.95	37.23	37.89	38.94
7	35.60	34.47	---	---	---	32.04	33.53	---	35.21	37.29	---	39.00
8	35.75	34.45	---	---	---	32.45	33.44	---	35.47	37.03	---	38.73
9	35.63	34.57	---	---	---	32.81	33.53	33.77	35.84	37.02	---	38.62
10	35.56	34.61	---	---	---	32.85	33.41	34.13	35.86	37.43	---	38.41
11	35.38	34.52	---	---	---	32.79	33.53	34.17	35.65	37.76	---	38.32
12	35.26	34.38	---	---	---	32.62	33.55	34.13	35.77	38.03	---	38.41
13	35.17	34.22	---	---	---	32.59	33.50	34.04	35.54	38.27	---	38.61
14	35.11	34.17	---	---	---	32.85	33.45	33.98	35.53	38.50	---	38.72
15	35.15	34.12	---	---	---	32.97	---	34.14	35.60	38.84	---	38.63
16	35.17	34.07	---	---	---	33.09	---	34.15	35.92	38.08	---	38.49
17	35.32	34.02	---	---	---	33.25	---	34.26	35.76	38.09	---	38.19
18	35.30	33.97	---	---	---	33.27	---	34.44	35.60	38.03	---	38.22
19	35.25	33.92	---	---	---	33.24	---	34.34	35.99	38.00	---	38.00
20	35.41	33.87	---	---	---	33.19	---	34.17	36.24	38.03	---	38.12
21	35.40	33.82	---	---	---	33.30	---	33.83	36.43	38.05	---	38.14
22	35.27	33.97	---	---	---	33.34	---	33.62	36.55	38.00	---	37.90
23	35.19	33.83	33.01	---	---	33.39	---	33.64	36.65	38.04	---	37.64
24	35.08	33.65	33.02	---	32.22	33.60	---	33.88	36.44	38.01	---	37.32
25	35.05	33.52	32.93	---	32.15	33.57	---	34.13	36.37	38.03	---	37.04
26	34.89	33.63	32.91	---	32.04	33.91	---	34.36	36.57	38.03	---	36.95
27	34.78	33.31	33.42	---	32.08	34.16	---	34.25	36.90	38.05	---	36.99
28	34.61	33.30	33.51	---	32.05	34.11	---	34.14	37.26	38.02	---	36.91
29	34.54	33.32	33.17	---	---	34.26	---	34.11	37.44	38.03	39.50	37.12
30	34.39	33.37	33.05	---	---	34.35	---	34.24	37.36	38.03	39.55	37.00
31	34.37	---	33.06	---	---	33.99	---	34.29	---	38.03	39.64	---
MAX	35.96	34.61	---	---	---	34.35	---	---	37.44	38.84	---	39.63
MIN	34.37	33.30	---	---	---	31.92	---	---	34.35	36.65	---	36.91

WTR YR 1995 HIGH 31.92 LOW 39.64



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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	33.90	May 8, 1995	34.03

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	34.25	May 8, 1995	34.80

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, 28.28 ft below land-surface datum, Nov. 20, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	27.82	May 8, 1995	27.85

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	17.22	May 8, 1995	17.45

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	32.37	May 8, 1995	32.98

GROUND-WATER LEVELS

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.

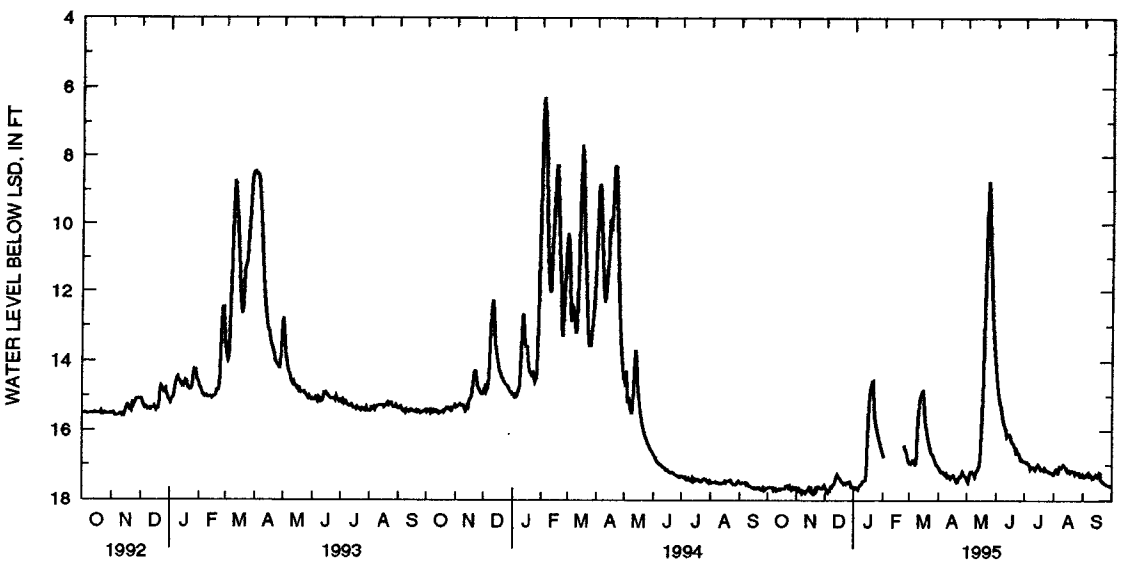
EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 3.71 ft above land-surface datum, Mar. 13, 1967; lowest, 19.61 ft below land-surface datum, Feb. 13, 1948.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.66	17.76	17.66	17.67	16.75	16.96	17.09	17.44	14.32	16.90	17.26	17.32
2	17.66	17.74	17.69	17.69	16.77	16.97	17.16	17.49	14.66	16.92	17.19	17.33
3	17.64	17.69	17.76	17.66	---	16.93	17.20	17.35	14.88	16.91	17.14	17.32
4	17.66	17.76	17.80	17.69	---	16.86	17.21	17.22	15.07	16.95	17.19	17.29
5	17.66	17.76	17.73	17.72	---	16.85	17.21	17.18	15.22	16.96	17.22	17.25
6	17.65	17.81	17.74	17.64	---	16.94	17.24	17.19	15.31	16.99	17.15	17.22
7	17.73	17.75	17.63	17.59	---	16.98	17.26	17.24	15.48	17.11	17.04	17.30
8	17.70	17.77	17.65	17.57	---	16.95	17.29	17.24	15.69	17.06	17.06	17.27
9	17.68	17.79	17.61	17.54	---	16.20	17.25	17.32	15.81	17.05	17.08	17.30
10	17.75	17.81	17.56	17.46	---	15.65	17.33	17.22	15.88	17.06	17.03	17.36
11	17.73	17.75	17.54	17.45	---	15.31	17.30	17.17	15.99	17.09	17.00	17.32
12	17.72	17.72	17.43	17.45	---	15.08	17.33	17.13	16.18	17.13	17.03	17.35
13	17.70	17.71	17.34	17.42	---	14.96	17.37	17.06	16.14	17.07	17.06	17.32
14	17.72	17.65	17.27	17.23	---	14.88	17.31	17.02	16.14	17.03	17.12	17.27
15	17.69	17.74	17.31	16.41	---	14.85	17.31	16.74	16.12	16.99	17.19	17.29
16	17.69	17.70	17.36	15.66	---	15.16	17.29	16.12	16.19	17.05	17.15	17.34
17	17.69	17.81	17.37	15.09	---	15.61	17.34	15.41	16.31	17.05	17.16	17.33
18	17.69	17.84	17.45	14.81	---	15.84	17.38	14.56	16.34	17.13	17.21	17.19
19	17.68	17.84	17.47	14.71	---	15.96	17.45	13.22	16.38	17.11	17.16	17.41
20	17.61	17.79	17.51	14.58	---	16.18	17.49	11.89	16.46	17.14	17.16	17.44
21	17.60	17.68	17.56	14.56	---	16.32	17.47	10.52	16.51	17.16	17.18	17.45
22	17.60	17.72	17.53	15.23	---	16.46	17.37	9.37	16.68	17.09	17.18	17.51
23	17.65	17.63	17.55	15.64	16.43	16.58	17.32	8.74	16.59	17.16	17.26	17.52
24	17.60	17.63	17.50	15.85	16.53	16.67	17.34	9.28	16.66	17.15	17.22	17.55
25	17.67	17.66	17.49	15.98	16.59	16.69	17.26	10.53	16.66	17.16	17.23	17.55
26	17.72	17.67	17.52	16.09	16.66	16.75	17.20	10.89	16.75	17.20	17.24	17.57
27	17.69	17.68	17.48	16.20	16.83	16.83	17.27	11.99	16.85	17.20	17.23	17.58
28	17.65	17.68	17.53	16.32	16.92	16.91	17.29	12.82	16.84	17.21	17.30	17.60
29	17.69	17.63	17.65	16.46	---	16.98	17.32	13.27	16.88	17.23	17.32	17.61
30	17.65	17.59	17.65	16.54	---	16.99	17.36	13.67	16.88	17.23	17.32	17.63
31	17.65	---	17.63	16.64	---	17.04	---	13.99	---	17.26	17.27	---
MAX	17.75	17.84	17.80	17.72	---	17.04	17.49	17.49	16.88	17.26	17.32	17.63
MIN	17.60	17.59	17.27	14.56	---	14.85	17.09	8.74	14.32	16.90	17.00	17.19

WTR YR 1995 HIGH 8.74 LOW 17.84



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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	16.96	May 8, 1995	16.74

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, 13.04 ft below land-surface datum, Apr. 21, 1987; lowest measured, 19.04 ft below land-surface datum, July 21, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level
Oct. 24, 1994	18.95	May 8, 1995	18.64

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 4, 1994	110.52	Apr. 12	109.63	June 26	109.51
Feb. 9	110.12	May 24	109.37	Aug. 29	110.19
Mar. 15, 1995	109.95				

GROUND-WATER LEVELS

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 5, 1994	42.64	Mar. 13, 1995	42.04	July 12	41.90
Dec. 15	42.72	May 31	41.67	Aug. 25	42.14

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, 11.05 ft below land-surface datum, Nov. 22, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 7, 1994	10.55	Feb. 27	9.34	June 8	9.94
Nov. 22	11.05	Mar. 22	9.33	July 13	10.54
Jan. 11, 1995	9.35	Apr. 26	7.55	Aug. 23	10.84

GROUND-WATER LEVELS

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, 26.10 ft below land-surface datum, Feb. 1, 1990; lowest measured, 49.64 ft below land-surface datum, Sept. 21, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 20, 1994	43.12	Mar. 20	29.80	June 28	34.18
Dec. 14	36.93	May 10	27.46	Aug. 10	40.31
Feb. 1, 1995	36.14				

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 3, 1994	106.93	Apr. 21	107.65	Aug. 4	106.86
Nov. 23	107.68	May 22	107.46	Sept. 1	107.27
Feb. 9, 1995	108.22	July 10	106.88		

GROUND-WATER LEVELS

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 5, 1994	75.42	Feb. 8, 1995	75.27	May 18	74.05
Nov. 9	75.70	Mar. 21	73.05	June 28	74.45
Dec. 22	75.67	Apr. 12	74.79	Aug. 31	74.35

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 1994 TO SEPTEMBER 1995

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 19, 1994	70.72	Mar. 20	68.98	June 27	69.76
Dec 13	70.01	May 9	69.76	Aug. 9	70.36
Jan. 31, 1995	70.01				

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 1994 TO SEPTEMBER 1995

DATE	TOTAL PRECIP-ITATION FOR DEFINED PERIOD (IN)	VOLUME ATM DEP WET (L)	PH FIELD ATM DEP WET T (UNITS)	SPEC. CONDUC-TANCE FIELD ATM DEP WET TOT (US/CM)	CALCIUM ATM DEP WET DIS (MG/L)	MAG-NESIUM ATM DEP WET DIS (MG/L)	SODIUM ATM DEP WET DIS (MG/L)
OCT 1994 04-11	0.32	0.557	4.62	14.2	0.170	0.032	0.063
OCT 11-18	1.13	1.379	5.06	6.0	0.030	0.006	0.027
OCT 18-25	0.50	0.877	4.29	19.7	0.070	0.011	0.063
NOV 08-15	0.32	0.539	4.13	42.7	0.290	0.034	0.135
NOV 29-DEC 06	0.97	1.595	4.67	11.4	0.020	0.009	0.059
DEC 27 1994-JAN 03 1995	0.20	0.349	3.87	44.7	0.060	0.013	0.046
JAN 1995 10-17	2.20	3.948	3.99	13.2	0.020	0.006	0.042
JAN 17-24	0.96	1.491	4.42	20.0	0.080	0.006	0.029
JAN 24-31	1.22	2.119	--	--	0.020	0.005	0.036
FEB 07-14	0.03	0.058	--	--	0.157	0.014	0.133
FEB 14-21	1.14	2.195	--	--	0.065	0.007	0.026
FEB 21-MAR 01	0.95	1.526	--	--	0.207	0.018	0.061
MAR 01-07	0.62	1.072	--	--	0.125	0.016	0.020
MAR 07-14	1.04	1.807	4.60	10.9	<0.009	0.006	0.034
MAR 14-21	0.36	0.621	5.52	24.2	0.395	0.061	0.048
APR 04-11	0.36	0.633	4.43	25.8	0.264	0.045	0.254
APR 11-18	0.97	1.680	4.74	14.0	0.149	0.023	0.059
APR 18-25	2.23	3.848	4.45	16.9	0.142	0.029	0.101
APR 25-MAY 02	1.39	2.387	--	--	0.147	0.018	0.032
MAY 02-10	--	3.079	--	--	0.913	0.065	0.058
MAY 10-16	1.64	2.787	--	--	0.275	0.037	0.127
MAY 30-JUN 06	0.29	0.481	--	--	0.182	0.024	0.052
JUN 06-13	2.33	3.889	--	--	0.158	0.025	0.081
JUN 20-27	1.36	2.335	4.75	25.5	0.329	0.033	0.035
JUL 04-11	0.94	1.622	4.69	12.7	0.185	0.038	0.173
SEP 12-19	2.51	4.330	4.51	15.1	0.039	0.005	0.019
SEP 19-26	--	--	3.69	119.7	0.350	0.037	0.130
SEP 26-OCT 03	--	--	--	--	0.038	0.007	0.051

CHEMICAL QUALITY OF PRECIPITATION

380706083324900 - CLARK STATE FISH HATCHERY, ROWAN COUNTY, KY--Continued

(National Atmospheric Deposition Program network station)

CHEMICAL ANALYSES, OCTOBER 1994 TO SEPTEMBER 1995

DATE	POTAS-SIUM ATM DEP WET DIS (MG/L)	NI-TROGEN SULFATE ATM DEP WET DIS AS SO4 (MG/L)	NI-TROGEN CHLO-RIDE ATM DEP WET DIS (MG/L)	PHOS-PHORUS NITRATE ATM DEP WET DIS AS NO3 (MG/L)	AMMON. ATM DEP WET DIS AS NH4 (MG/L)	ORTHO ATM DEP WET DIS AS PO4 (MG/L)
OCT 1994 04-11	0.053	1.64	0.11	0.62	0.03	0.006
OCT 11-18	<0.003	0.27	0.05	0.21	<0.02	<0.003
OCT 18-25	0.009	1.95	0.10	1.48	0.12	<0.003
NOV 08-15	0.028	3.77	0.20	2.96	0.50	0.006
NOV 29-DEC 06	0.003	0.80	0.10	0.74	0.07	0.004
DEC 27 1994-JAN 03 1995	0.023	3.51	0.14	3.00	0.48	0.004
JAN 1995 10-17	0.003	1.09	0.11	0.66	0.07	<0.003
JAN 17-24	0.008	1.37	0.08	1.42	0.17	0.003
JAN 24-31	0.009	1.52	0.07	0.82	<0.02	0.003
FEB 07-14	0.015	0.98	0.30	5.00	0.40	<0.003
FEB 14-21	0.007	1.24	0.07	1.31	0.25	<0.003
FEB 21-MAR 01	0.021	2.02	0.11	2.27	0.52	<0.003
MAR 01-07	0.008	1.02	0.05	1.16	0.06	<0.003
MAR 07-14	0.011	0.81	0.10	0.58	0.05	<0.003
MAR 14-21	0.225	3.21	0.08	2.01	0.71	<0.003
APR 04-11	0.035	2.27	0.11	1.94	0.63	<0.003
AP 11-18	0.033	1.07	0.09	0.74	0.15	<0.003
APR 18-25	0.093	1.81	0.20	1.07	0.37	<0.003
APR 25-MAY 02	0.035	2.13	0.07	0.98	0.04	<0.003
MAY 02-10	0.203	1.48	0.11	1.33	0.39	0.010
MAY 10-16	0.076	1.66	0.14	1.39	0.56	<0.003
MAY 30-JUN 06	0.037	1.88	0.15	2.02	0.30	<0.003
JUN 06-13	0.040	2.10	0.13	1.65	0.38	<0.003
JUN 20-27	0.207	3.70	0.15	2.27	1.15	0.168
JUL 04-11	0.030	1.52	0.23	0.89	0.22	<0.003
SEP 12-19	0.009	1.40	0.04	0.79	0.17	<0.003
SEP 19-26	0.037	10.10	0.35	6.56	1.18	<0.003
SEP 26-OCT 03	0.008	0.03	0.08	0.17	0.06	<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 CANNNONSBURG, KY	03216550	38.20	1980-81		E		E	
MILE BRANCH NR RUSH, KY	03216563	.94	1976-90			E		
MILE BR NR COALTON, KY	03216564	1.61	1977-86			E		
E FK LITTLE SANDY R NR ARGILLITE, KY	03216570	138.00	1968-76				E	
TYGARTS CREEK AT OLIVE HILL, KY	03216800	59.6	1957-94	E	E	E	E	
TROUGH CAMP CR TRIB NR OLIVE HILL, KY	03216901	1.11	1976-86			E		
TYGARTS CR NR KEHOE, KY	03216935	124.00	1963-74		E			E
BUFFALO CR BELOW GRASSY CR AT KEHOE, KY	03216965	54.60	1975-81				E	
KINNICONICK CR NR KINNICONICK, KY	03237225	60.10	1975-81				E	
KINNICONICK CR NR RUGLESS, KY	03237230	109.00	1954-72				E	
LAUREL FK NR CAMP DIX, KY	03237246	57.00	1975-81				E	
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
			1980-81					
LOCUST CR NR AUGUSTA, KY	03238660	41.70	1975-78				E	
			1980-81					
TWELVEMILE CR NR CALIFORNIA, KY	03238750	44.30	1975-81				E	
DUCK CR AT COLD SPRING, KY	03238795	.49	1975-78			E		
LICKING R AT FREDVILLE, KY	03248170	40.30	1973-76				E	
LICKING R AT ROYALTON, KY	03248250	76.70	1973-76				E	
LICKING R NR SALYERSVILLE, KY	03248500	140	1939-92	E	E	E	E	
ELK FK NR LENOX, KY	03248685	59.40	1958-73				E	
CANEY CR NR W LIBERTY, KY	03248730	41.40	1973-75				E	
GRASSY CR NR W LIBERTY, KY	03248765	46.10	1974-79				E	
			1981					
BLACKWATER CR NR EZEL, KY	03248815	38.30	1974-81					
N FK LICKING R NR WRIGLEY, KY	03248855	33.70	1974-81			E		
LICKING R AT YALE, KY	03249000	714.00	1937-42		E			
LICKING R AT FARMERS, KY	03249500	827	1915-20		E			
			1928-31	E	E			
			1936-87	E	E			
			1938-94	E	E	E	E	
TRIPLETT CR AT MOREHEAD, KY	03250000	47.5	1941-82	E		E	E	
			1989-92					
JACKS BRANCH NR MOREHEAD, KY	03250080	.19	1976-86			E		
INDIAN CR NR OWINGSVILLE, KY	03250150	2.43	1975-90			E		
SLATE CR NR JEFFERSNVILLE, KY	03250185	56.70	1973-81				E	
SLATE CR NR OWINGSVILLE, KY	03250240	185.00	1954-72				E	
ROSE RUN TRIB NR OLYMPIA, KY	03250243	.70	1975-86			E		
ROCK LICK CR NR SHARKEY, KY	03250320	4.01	1973-82		E			
FOX CR NR HILLSBORO, KY	03250330	110.00	1953-72			E	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		
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 BLACKEY, KY	03277340	131.00	1965-65				E	
			1972-81					
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	
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	

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
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			
LULBEGRUD CR TRIB AT WESTBEND, KY	03283610	.33	1975-86					
LULBEGRUD CR AT LOG LICK, KY	03283630	49.30	1973-81				E	
MUDDY CR AT DOYLESVILLE, KY	03283830	63.80	1973-77				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 BEREA, KY	03284310	53.40	1975-83			E	E	
OLD TOWN BR TR NR RICHMOND, KY	03284340	1.83	1976-85			E		
SILVER CR NR RICHMOND, KY	03284350	98.50	1972-77				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	
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	

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
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 TAYOLORSVILLE, KY	03295580	53.20	1974-76				E	
SALT R AT TAYLORSVILLE, KY	03295610	359.00	1937-75				E	
			1972-76					
BULLSKIN CR AT FINCHVILLE, KY	03295705		1974-75		E		E	
BRASHEARS CR NR FINCHVILLE, KY	03295800	147.00	1953-72				E	
BRADSHAW CR NR SHELBYVILLE, KY	03295845	1.36	1976-86			E		
SIMPSON CR NR TAYLORSVILLE, KY	03295985	57.30	1974-76			E		
PLUM CR SUBWATER SHED NO 4 NR SIMPSONVILLE, KY	03296000	1.55	1955-64*		E			
PLUM CR NR WILSONVILLE, KY	03296500	19.10	1954-61*	E	E	E	E	
PLUM CR SWS N 15 NR WILSONVILLE, KY	03296700	1.03	1957-61*		E			
PLUM CR SWS N 17 NR WATERFORD, KY	03296800	.52	1957-61*		E			
LITTLE PLUM CR NR WATERFORD, KY	03297000	5.15	1954-61*	E	E	E		
PLUM CR AT WATERFORD, KY	03297500	31.80	1954-74*	E	E	E		
COX CR NR HIGHGROVE, KY	03297700	95.80	1968-72				E	
FLOYDS FK NR CRESTWOOD, KY	03297845	46.70	1979-91	E	E	E	E	
LONG RUN NR EASTWOOD, KY	03297970	15.20	1974-77*	E	E	E		
FLOYDS FK NR GAP IN KNOB, KY	03298390	259.00	1972-76				E	
ELM LICK CR NR CLERMONT, KY	03298535	.68	1976-86			E		
N ROLLING FK NR GRAVEL SWITCH, KY	03298710	66.20	1974-81				E	
N ROLLING FK AT BRADSFORDVILLE, KY	03298760	95.70	1972-77				E	
BIG S FK AT BRADSFORDVILLE, KY	03298865	59.60	1974-81				E	
ROLLING FK NR LEBANON, KY	03299000	239	1938-92	E		E	E	
POTTINGER CR NR NEW HOPE, KY	03299445	43.50	1974-78				E	
			1980-81					
BEECH FK NR SPRINGFIELD, KY	03300000	85.90	1953-72		E	E		
N PRONG NR WILLISBURG, KY	03300065	1.71	1975-89			E		
CHAPLIN R AT SHARPSVILLE, KY	03300300	140.00	1954-72				E	
CHAPLIN R NR CHAPLIN, KY	03300390	262.00	1972-77				E	
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		
NORTHERN DITCH AT OKOLONA, KY	03301940	11.10	1974-79		E			
OTTER CR TRIB NR VINE GROVE, KY	03302085	.90	1975-86					
OTTER CR AT GRAHAMTON, KY	03302100	88.40	1953-72				E	
DOE RUN NR BRANDENBURG STATION, KY	03302150	52.70	1953-72				E	
SINKING CR AT ROSETTA, KY	03303195	36.00	1970-76				E	

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
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					
BIG PITMAN CR NR SUMMERSVILLE, KY	03307295	126.00	1953-72				E	
BIG BRUSH CR NR SUMMERSVILLE, KY	03307400	45.70	1974-78				E	
			1980-81					
S FK LITTLE BARREN R AT EDMONTON, KY	03307500	18.30	1941-72*	E	E	E		
S FK LITTLE BARREN R AT SULPHUR WELL, KY	03307600	79.60	1975-81				E	
PRICES CR NR GRADYVILLE, KY	03307670	2.53	1976-86			E		
E FK LITTLE BARREN R NR SULPHUR WELL, KY	03307730	87.40	1975-81				E	
LITTLE BARREN R NR MONROE, KY	03307800	244.00	1960-76				E	
ECHO R OUTLET AT MAMMOTH CAVE, KY	03308950		1953-74				E	
GREEN R AT MAMMOTH CAVE, KY	03309000	1983.00	1938-50	E	E	E		
WET PRONG BUFFALO CR NR MAMMOTH CAVE, KY	03309100	2.26	1962-74				E	
MCDOUGAL CR NR HODGENVILLE, KY	03309500	5.34	1953-71*	E	E	E	E	
N FK NOLIN R AT HODGENVILLE, KY	03310000	36.40	1941-73*	E	E	E		
S FK NOLIN R AT MATHERS MILL, KY	03310078	49.60	1974-78				E	
NOLIN R NR GLENDALE, KY	03310160	185.00	1972-73				E	
VALLEY CR NR GLENDALE, KY	03310270	90.10	1973-81				E	
BACON CR AT HIGHWAY 31W AT BONNIEVILLE, KY	03310380	53.50	1974-81				E	
BACON CR TRIB NR UPTON, KY	03310385	.56	1975-90			E		
BACON CR NR PRICEVILLE, KY	03310400	85.4	1959-94	E	E	E	E	
NOLIN R AT WAX, KY	03310500	600.00	1935-62*	E	E	E		
DOG CR NR MAMMOTH CAVE, KY	03310600	8.12	1961-74				E	
BRIER CR TRIB NR OLLIE, KY	03310880	.31	1976-86			E		
BYLEW CR NR MAMMOTH CAVE, KY	03311100	5.16	1961-74			E	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		
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	

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
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	
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 FERNDALE, KY	03402230	99.50	1972-81				E	
CLEAR CR AT CLEAR CR SPRINGS, KY	03402480	38.50	1975-81				E	
CUMBERLAND R AT PINEVILLE, KY	03402500	676.00	1928-31		E			
LEFT FK STRAIGHT CR AT CARY, KY	03402850	33.70	1958-76				E	
STRAIGHT CR AT STRAIGHT CR, KY	03402852	89.80	1953-67				E	
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		

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
CLEAR FK AT SAXTON, KY	03403910	331.00	1968-90*	E	E	E	E	
JELLICO CR NR WILLIAMSBURG, KY	03404200	103.00	1953-72				E	
MARSH CR NR WHITELY CITY, KY	03404390	72.00	1960-61				E	
			1974-81					
CUMBERLAND R AT CUMBERLAND FALLS, KY	03404500	1,977	1907-11	E	E			
			1914-94	E	E	E	E	
LAUREL R NR LILY, KY	03404688	52.30	1974-81				E	
LITTLE LAUREL R NR LILY, KY	03404810	42.40	1975-81				E	
LAUREL R AT MUNICIPAL DAM NR CORBIN, KY	03404820	140	1973-92	E		C	E	
GOZEY HOLLOW NR CORBIN, KY	03404867	.31	1976-85			E		
LAUREL R AT CORBIN, KY	03405000	201.00	1910-73	E	E	E		
LAUREL R NR VOX, KY	03405500	245.00	1929-31		E			
S FK ROCKCASTLE R NR PEOPLES, KY	03405700	95.10	1961-72				E	
MIDDLE FK ROCKCASTLE R NR PARROT, KY	03405818	79.00	1975-81				E	
HORSE LICK CR NR LAMERO, KY	03405842	61.70	1975-81				E	
BIG HURRICANE BR AT CONWAY, KY	03405854	1.91	1976-85			E		
ROUNDSTONE CR AT HOMMEL, KY	03405868	52.90	1975-81				E	
ROUNDSTONE CR AT LIVINGSTON, KY	03405900	144.00	1953-76					
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	
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		

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
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. ACTIVE STATUS	PHY. ACTIVE STATUS	SED. ACTIVE STATUS	CHEMICAL ACTIVE STATUS
BRUSHY FK AT THOMAS, KY	03201400		1980-82		N	N	N
CARD CR AT MOUTHCARD, KY	03207845	4.18	1974-80		N	N	N
FEDS CR AT FEDS CREEK, KY	03207875	11.60	1972-75		N	N	N
BIG CR AT DUNLAP, KY	03207905	9.55	1974-76		N	N	N
ELKFOOT BRANCH NR NIGH, KY	03207915	.70	1980-84			N	
ISLAND CR NR PHYLLIS, KY	03207925	2.42	1974-80		N	N	N
LICK CR AT LICK CREEK, KY	03207935	6.70	1972-76		N	N	N
MILLERS CR NR PHYLLIS, KY	03207940	1.68	1973-81		N	N	N
DICKS FK AT PHYLLIS, KY	03207962	.82	1975-79			N	
			1982-84			N	
LEVISA FK BELOW FISHTRAP DAM, KY	03208000	392.00	1965-79		N	N	N
RUSSELL FK AT ELKHORN CITY, KY	03209300	554.00	1961-83		N	N	N
ELKHORN CR NR ELKHORN CITY, KY	03209402		1980-82		N	N	N
MARROWBONE CR AT WOLFPIT, KY	03209420		1980-82		N	N	N
GREASY CR NR SUTTON, KY	03209430		1980-82		N	N	N
DORTON CR NR DORTON, KY	03209438		1980-82		N	N	N
LONG FK NR VIRGIE, KY	03209453		1980-82		N	N	N
ROBINSON CR AT ROBINSON CREEK, KY	03209457		1980-82		N	N	N
SHELBY CR AT SHELBIANA, KY	03209460	112.00	1965-79		N	N	N
MUD CR NR GRETHEL, KY	03209530		1980-82		N	N	N
TOLLAR CR NR HAROLD, KY	03209540		1980-82		N	N	N
MUD CR AT HAROLD, KY	03209545	51.90	1978-80		N	N	N
RIGHT FK BEAVER CR AT TOPMOST, KY	03209585		1980-82		N	N	N
CANEY FK BEAVER CR NR RAVEN, KY	03209590		1980-82		N	N	N
RIGHT FK BEAVER CR AT WAYLAND, KY	03209600	73.90	1978-80		N		N
JONES FK AT BETTY, KY	03209603		1980-82		N	N	N
SALTLICK CR NR BOSCO, KY	03209607		1980-82		N	N	N
LEFT FK BEAVER CR AT DRIFT, KY	03209650	58.50	1978-80		N		N
LEFT FK BEAVER CR AT PRINTER, KY	03209680		1980-82		N	N	N
BEAVER CR AT MARTIN, KY	03209700	228.00	1961-71		N		N
LEVISA FK AT PRESTONSBURG, KY	03209800	1702.00	1976-79		N	N	N
MIDDLE CR NR PRESTONSBURG, KY	03209850		1980-82		N	N	N
LEFT FK MIDDLE CR NR GOODLOE, KY	03209870		1980-82		N	N	N
MIDDLE CR NR PRESTONBURG, KY	03209890	62.10	1978-80		N	N	N
ABBOTT CR NR PRESTONSBURG, KY	03209910		1980-82		N	N	N
RACCOON CR NR ZEBULON, KY	03210040	14.80	1973-80		N	N	N
RACKOON CR NR ZEBULLON, KY	03210060		1980-82		N	N	N
CANEY FK NR GULNARE, KY	03210160	3.74	1973-80		N	N	N
BRUSHY FK AT HEENON, KY	03210310	20.40	1973-76		N	N	N
BUFFALO CR NR ENDICOTT, KY	03210420	6.21	1973-80		N	N	N
BUFFALO CR NR GERMAN, KY	03210450		1980-82		N	N	N
DANIELS CR NR ODDS, KY	03211690		1980-82		N	N	N
DANIELS CR AT MOUTH NR VAN LEAR, KY	03211700	12.00	1978-80		N		N
LEVISA FK ABOVE PAINT CR AT PAINTSVILLE, KY	03211800	1975.00	1974-79		N		N
PAINT CR NR ELNA, KY	03211970	79.30	1967		N		N
PAINT CR ABOVE BARNETTS CR NR STAFFORDSVILLE, KY	03211997		1971-72		N		N
GREASY CR NR OFFUTT, KY	03212510		1980-82		N	N	N
TOMS CR NR TUTOR KEY, KY	03212520		1980-82		N	N	N
GEORGES CR NR ULYSSES, KY	03212530		1980-82		N	N	N
RIGHT FK CR NR CHARLEY, KY	03212535		1980-82		N	N	N
RIGHT FK HURRICANE CR NR STOPOVER, KY	03213630	.82	1980-84			N	
LEFT FK PETER CR AT JAMBOREE, KY	03213670		1980-82		N	N	N
RIGHT FK PETER CR NR PHELPS, KY	03213680		1980-82		N	N	N
BLACKBERRY CR AT RANSOM, KY	03213690		1980-82		N	N	N
POND CR NR TOLER, KY	03213698		1980-82		N	N	N
BIG CR NR HATFIELD, KY	03213750		1980-82		N	N	N
WOLF CR NR MCCLURE, KY	03214300		1980-82		N	N	N
MIDDLE FK ROCKCASTLE CR AT INEZ, KY	03214600	33.34	1980-82		N	N	N
COLDWATER FK NR INEZ, KY	03214650	17.85	1980-82		N	N	N
ROCKCASTLE CR AT INEZ, KY	03214700	63.10	1970-72	N	N	N	N
ROCKHOUSE FK NR MILO, KY	03214720		1980-82		N	N	N
ROCKCASTLE CR AT CLIFFORD, KY	03214730	121.00	1965-75		N		N

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

STATION NAME AND NUMBER	STATION NUMBER	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	BIO. ACTIVE STATUS	PHY. ACTIVE STATUS	SED. ACTIVE STATUS	CHEMICAL ACTIVE STATUS
BIG SANDY R AT LOUISA, KY	03215000	3897	1950, 1966-72, 1974-92	N	N	N	N
LEFT FK BLAINE CR NR MARTHA, KY	03215250		1980-82		N	N	N
LOWER LAUREL CR NR FLATGAP, KY	03215320		1967		N		N
CAINES CR NR BLAINE, KY	03215367		1980-82		N	N	N
BLAINE CR AT HWY 32 BR AT BLAINE, KY	03215370	73.80	1978-80		N		N
HOOD CR AT BLAINE, KY	03215380		1980-82		N	N	N
BRUSHY CR NR CORDELL, KY	03215420		1980-82		N	N	N
BLAINE CR BELOW BRUSHY CR NR BLAINE, KY	03215430	151.00	1971-80		N		N
RICH CR NR ADAMS, KY	03215440		1971-72		N		N
LITTLE BLAINE CR NR EVERGREEN, KY	03215470		1980-82		N	N	N
LITTLE BLAINE CR AT EVERGREEN, KY	03215480	23.00	1971-80		N		N
BLAINE CR NR YATESVILLE, KY	03215490	206.00	1971-72		N		N
BLAINE CR AT YATESVILLE, KY	03215500	217.00	1965-79		Y		N
CAT FK CR AT FALLSBURG, KY	03215550		1980-82		N	N	N
BIG SANDY R AT CATLETTSBURG, KY	03215700	4281.00	1955-75		N		N
LITTLE SANDY R AT SANDY HOOK, KY	03216180		1980-82		N	N	N
BIG CANEY CR NR STARK, KY	03216230		1980-82		N	N	N
LITTLE SANDY R BELOW GRAYSON DAM NR LEON, KY	03216350	196.00	1966-79		N		N
BIG SINKING CR NR ADEN, KY	03216370		1980-82		N	N	N
LITTLE SANDY R AT LEON, KY	03216400	255.00	1978-80		N		
LITTLE SANDY R AT DOBBINS, KY	03216430		1980-82		N	N	N
DRY FK AT WILLARD, KY	03216450		1980-82		N	N	N
LITTLE FK LITTLE SANDY R NR GRAYSON, KY	03216480	132.00	1973-75		N		N
BERET CR NR GRAYSON, KY	03216520		1980-82		N	N	N
E FK LITTLE SANDY R NR FALLSBURG, KY	03216540	12.20	1978-83		N		
E FK LITTLE SANDY R NR CANNONSBURG, KY	03216558		1980-82		N	N	N
WILLIAMS CR AT PRINCESS, KY	03216567		1980-82		N	N	N
E FK LITTLE SANDY R NR ARGILLITE, KY	03216570	138.00	1970-72		N		N
OHIO R AT GREENUP DAM, KY	03216600	62000.00	1974-86	N	N	N	N
SOLDIER FK AT LAWTON, KY	03216770		1971-72		N		N
TYGARTS CR AT IRON HILL, KY	03216930		1971-72		N		N
BUFFALO CR NR GESLING, KY	03216960		1980-82		N	N	N
KINNICONICK CR NR RUGLESS, KY	03237230	109.00	1970-72		N		N
OHIO R AT MELDAHL DAM NR CHILO, OH	03238680	70800.00	1967-70		N		N
OHIO R AT RAW WATER INTAKE, CINCINNATI, OH	03238800		1970				N
LICKING R NR FREDVILLE, KY	03248165		1980-82		N	N	N
BURNING FK AT SAYLERSVILLE, KY	03248380		1980-82		N	N	N
LEFT FK NR HENDRICKS, KY	03248520		1980-82		N	N	N
RIGHT FK AT FRITZ, KY	03248530		1980-82		N	N	N
JOHNSON CR AT KERNIE, KY	03248560		1980-82		N	N	N
LICK CR NR BLOOMINGTON, KY	03248580		1980-82		N	N	N
WHITE OAK CR AT WHITE OAK, KY	03248610		1980-82		N	N	N
WILLIAMS CR NR ELAMTON, KY	03248670		1980-82		N	N	N
ELK FK NR LENOX, KY	03248685	59.40	1980-82		N	N	N
CANEY CR NR CANEY, KY	03248710		1980-82		N	N	N
GRASSY CR AT GRASSY CREEK, KY	03248750		1980-82		N	N	N
LICKING R AT FARMERS, KY	03249500	827.00	1948-79		N	N	N
TRIPLETT CR AT MOREHEAD, KY	03250000	47.50	1978-80		N		
SLATE CR NR OWINGSVILLE, KY	03250240	185.00	1970-71		N		N
ROCK LICK CR NR SHARKEY, KY	03250320	4.01	1978-83		N		
LICKING R AT SHERBURNE, KY	03250400		1981-83	N	N	N	N
N FK LICKING R NR MILFORD, KY	03251400	286.00	1970-72		N		N
LICKING R AT MCKINNEYSBURG, KY	03251500	2326.00	1951-79		N	N	N
STONER CR NR MIDDLETOWN, KY	03251665	51.60	1974		N		N
HINKSTON CR NR SHARPSBURG, KY	03252190	78.90	1973		N		N
HINKSTON CR NR CARLISLE, KY	03252300	154.00	1970-74		N		N
S FK LICKING R AT CYNTHIANA, KY	03252500	621.00	1949-83	N	N	N	N
LICKING R AT CATAWBA, KY	03253500	3300.00	1962-79		N		N
OHIO R AT MARKLAND DAM, KY	03277200	83170.00	1960-70	N	N	N	N
			1974-86	N	N	N	N
OHIO R AT LOCK AND DAM 39 NR FLORENCE, KY	03277205	82910.00	1953-75		N		

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

STATION NAME AND NUMBER	STATION NUMBER	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	BIO. ACTIVE STATUS	PHY. ACTIVE STATUS	SED. ACTIVE STATUS	CHEMICAL ACTIVE STATUS
YONTS CR NR NEON, KY	03277260		1980-82		N	N	N
N FK KENTUCKY R AT WHITESBURG, KY	03277300	66.40	1970-75		N		N
KINGS CR NR ROXANA, KY	03277320		1980-82		N	N	N
N FK KENTUCKY R AT BLACKEY, KY	03277340	131.00	1971-75		N		N
ROCKHOUSE CR NR FLETCHER, KY	03277361		1980-82		N	N	N
ROCKHOUSE CR AT LETCHER, KY	03277362		1971		N		N
LINE FK AT DEFEATED CREEK, KY	03277370	40.80	1980-82		N	N	N
LINE FK AT ULVAH, KY	03277380		1971		N		N
N FK KENTUCKY R AT CORNETTSVILLE, KY	03277411	322.00	1970-72		N		N
RIGHT FK MACYS CR NR FARLAR, KY	03277415		1980-82		N	N	N
YELLOW CR AT SASSAFRAS, KY	03277455		1965-75		N		N
CARR FK NR HAZARD, KY	03277480		1971		N		N
LOTTS CR NR DARFORK, KY	03277515		1980-82		N	N	N
BIG CR NR AVAWAN, KY	03277580		1980-82		N	N	N
GRAPEVINE CR NR LAMONT, KY	03277700		1980-82		N	N	N
TROUBLESOME CR NR ARY, KY	03277800		1980-82		N	N	N
BALLS FK NR TALCUM, KY	03277900		1980-82		N	N	N
BUCKHORN CR NR NOBLE, KY	03278100		1980-82		N	N	N
LOST CR NR LOST CREEK, KY	03279150		1980-82		N	N	N
LAUREL FK NR ELMROCK, KY	03279250		1980-82		N	N	N
MIDDLE FK QUICKSAND CR NR DECOY, KY	03279300		1980-82		N	N	N
HAWLS FK NR TIPTOP, KY	03279370		1980-82		N	N	N
QUICKSAND CR AT LUNAH, KY	03279400	101.00	1970-72		N		N
CANEY CR NR CAMP LEWIS, KY	03279430		1980-82		N	N	N
HUNTING CR NR ROUSSEAU, KY	03279460		1980-82		N	N	N
S FK QUICKSAND CR AT PORTSMOUTH, KY	03279650		1980-82		N	N	N
QUICKSAND CR AT QUICKSAND, KY	03279700	203.00	1965-75		N		N
N FK KENTUCKY R AT JACKSON, KY	03280000	1101.00	1948-75	N	N	N	N
			1979-81				
			1987-91				
CANE CR NR JACKSON, KY	03280100		1980-82		N	N	N
ROCKHOUSE CR NR HYDEN, KY	03280360		1980-82		N	N	N
FROZEN CR NR TAULBEE, KY	03280400		1980-82		N	N	N
BOONE FK NR VANCLEAVE, KY	03280450		1980-82		N	N	N
MIDDLE FK KENTUCKY R NR WARBRANCH, KY	03280520		1980-82		N	N	N
MIDDLE FK KENTUCKY R AT ASHER, KY	03280530		1971		N		N
BEECH FK NR HELTON, KY	03280540		1980-82		N	N	N
BEECH FK AT ASHER, KY	03280550	33.90	1971		N		N
GREASY CR NR NAPIER, KY	03280560		1980-82		N	N	N
LAUREL FK NR LEWIS CREEK, KY	03280575		1980-82		N	N	N
GREASY CR AT HOSKINSTON, KY	03280590	95.00	1971		N		N
MIDDLE FK KENTUCKY R NR HAYDEN, KY	03280600	202.00	1975-82	N	N	N	N
			1988		N		N
CUTSHIN CR NR CINDA, KY	03280670		1980-82		N	N	N
HELL FOR CERTAIN CR NR KALIOPI, KY	03280750		1980-82		N	N	N
TURKEY CR NR TURKEY, KY	03280950		1980-82		N	N	N
MIDDLE FK KENTUCKY R AT TALLEGA, KY	03281000	537.00	1950-75	N	N	N	N
			1978-83				
			1987-90				
RED BIRD R AT BIG CREEK, KY	03281030	125.00	1970-72		N		N
BIG CR NR BIG CREEK, KY	03281035		1980-82		N	N	N
HECTOR BRANCH NR ERILINE, KY	03281045		1980-82		N	N	N
GOOSE CR NR GOOSEROCK, KY	03281065	49.60	1979-82		N	N	N
COLLINS FK NR BLUEHOLE, KY	03281075		1980-82		N	N	N
HORSE CR NR HIMA, KY	03281097		1980-82		N	N	N
LITTLE GOOSE CR NR MANCHESTER, KY	03281133		1980-82		N	N	N
BULLSKIN CR NR BRUTUS, KY	03281175		1980-82		N	N	N
S FK KENTUCKY R AT ONEIDA, KY	03281200	486.00	1970-72		N		N
SEXTON CR NR CHESTNUTBURG, KY	03281340		1980-82		N	N	N
LOWER ALLEN CR NR CONKLING, KY	03281360		1980-82		N	N	N
S FK KENTUCKY R AT BOONEVILLE, KY	03281500	722.00	1950-75	N	N	N	N
			1979-83				
			1987-90				

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

STATION NAME AND NUMBER	STATION NUMBER	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	BIO. ACTIVE STATUS	PHY. ACTIVE STATUS	SED. ACTIVE STATUS	CHEMICAL ACTIVE STATUS
BIG SINKING CR NR CRYSTAL, KY	03282075	23.40	1987-89		N	N	N
FURNACE FK NR CRYSTAL, KY	03282100	9.94	1987-89		N	N	N
STATION CAMP CR AT WAGERSVILLE, KY	03282170	115.00	1970-72		N		N
KENTUCKY R NR TRAPP, KY	03282300		1982-83		N	N	N
RED R AT DAYSBORO, KY	03282400		1980-82		N	N	N
RED R NR PINE RIDGE, KY	03283100	142.00	1968-76		N		N
CAT CR NR STANTON, KY	03283370	8.30	1987-89		N	N	N
KENTUCKY R AT LOCK 10 NR WINCHESTER, KY	03284000	3955.00	1987-91	N	N	N	N
BAUGHMAN FK AT GENTRY ROAD NR ATHENS, KY	03284090	7.18	1967-68		N		N
BOONE CR AT GRIMES MILL RD NR LOCUST GROVE, KY	03284100	41.80	1967-68		N		N
KENTUCKY R NR LEXINGTON, KY	03284105		1970				N
SILVER CR NR KINGSTON, KY	03284300	28.60	1978-83		N		
SILVER CR NR RICHMOND, KY	03284350		1973-75		N		N
PAINT LICK CR NR MCCREARY, KY	03284450	97.60	1970-72		N		N
KENTUCKY R AT LOCK 8 NR CAMP NELSON, KY	03284500	4414.00	1948-75		N		N
DIX R NR STANFORD, KY	03284800	160.00	1973-75		N		N
HANGING F CR NR STANFORD, KY	03284935	46.90	1974		N		N
DIX R NR DANVILLE, KY	03285000	318.00	1988		N		N
DIX R AT DIX DAM NR BURGIN, KY	03286200	439.00	1961-79		N		N
KENTUCKY R AT LOCK 4 AT FRANKFORT, KY	03287500	5411.00	1949-73	N	N	N	N
			1987-90				
BENSON CR AT FRANKFORT, KY	03287530	71.20	1973		N		N
BENSON CR NR FRANKFORT, KY	03287550	107.00	1970-72		N		N
N ELKHORN CR AT BRYAN STATION RD AT MONTROSE, KY	03287600	21.50	1967-68		N		N
N ELKHORN CR UNNAMED TR AT MUIR STA RD NR MUI, KY	03287620	15.80	1967-68		N		N
N ELKHORN CR AT HUFFMAN MILL RD NR MATTOXTOWN, KY	03287700	62.70	1967-68		N		N
GOOSE CR AT MT HOREB RD NR NEWTOWN, KY	03287800	14.20	1967-68		N		N
GOOSE CR AT NEWTOWN RD, NR NEW ZION, KY	03287810		1967		N		N
N ELKHORN CR NR GEORGETOWN, KY	03288000	119.00	1988-89		N		N
CANE RUN AT BEREA ROAD NR DONERAIL, KY	03288200	19.90	1967-68		N		N
CANE RUN NR GEORGETOWN, KY	03288260	45.40	1973		N		N
CAVE CR NR FORT SPRING, KY	03288500	2.53	1968		N		N
STEELES RUN AT OLD FRANKFORT RD AT FAYWOOD, KY	03289100	6.67	1967-68		N		N
TOWN BRANCH AT YARNALLTON RD AT YARNALLTON, KY	03289200		1967-68		N		N
ELKHORN CR NR FRANKFORT, KY	03289500	473.00	1987-91	N	N	N	N
SIX MILE NR DEFOE, KY	03290420	42.60	1973		N		N
SIX MILE CR NR LOCKPORT, KY	03290490	76.50	1973-74		N		N
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
			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

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STATION NAME AND NUMBER	STATION NUMBER	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	BIO. ACTIVE STATUS	PHY. ACTIVE STATUS	SED. ACTIVE STATUS	CHEMICAL ACTIVE STATUS
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		
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
ECHO R OUTLET AT MAMMOTH CAVE, KY	03308950		1974		N		N
GREEN R AT MAMMOTH CAVE, KY	03309000	1983.00	1958-74		N		N
WET PRONG BUFFALO CR NR MAMMOTH CAVE, KY	03309100	2.26	1962-74		N	N	N
MCDOUGAL CR AT HODGENVILLE, KY	03309600		1970		N		N
N FK NOLIN R AT HODGENVILLE, KY	03310000	36.40	1970-72		N		N
N FK NOLIN R NR EAGLE MILLS, KY	03310030		1970-79		N		N
NOLIN R AT EAGLE MILLS, KY	03310100		1970-72		N		N
MIDDLE CR AT NEELY BRANCH, KY	03310117		1971		N		N
MIDDLE CR NR TONIEVILLE, KY	03310120		1970-72		N		N
MIDDLE CR AT EAGLE MILLS, KY	03310130		1971-72		N		N
NOLIN R NR GLENDALE, KY	03310160	185.00	1971-75		N		N
VALLEY CR AT ELIZABETHTOWN, KY	03310210		1970-73		N		N
VALLEY CR AT GAITHERS, KY	03310225		1971-73		N		N
W RHUDES CR NR CECILIA, KY	03310250		1970-72		N		N
VALLEY CR NR GLENDALE, KY	03310270	90.10	1960-75		N		N
NOLIN R NR STAR MILLS, KY	03310273		1971-72		N		N
NOLIN R AT WAX, KY	03310500	600.00	1949-61		N	N	N
ROCK CR NR CLARKSON, KY	03310550		1980-82		N	N	N
DOG CR NR MAMMOTH CAVE, KY	03310600	8.12	1961-74		N		N
BYLEW CR NR MAMMOTH CAVE, KY	03311100	5.16	1965-74		N		N
GREEN R AT LOCK 6 AT BROWNSVILLE, KY	03311500	2762.00	1978-82		N		
BEAVERDAM CR AT RHODA, KY	03311600	10.90	1965-79		N		N
BEAR CR NR BEE SPRING, KY	03312040		1980-82		N	N	N
SUNFISH CR NR BEE SPRING, KY	03312070		1980-82		N	N	N
BEAR CR NR ROUNDHILL, KY	03312100	137.00	1960-72		N		N
BIG REEDY CR NR ROUNDHILL, KY	03312120		1980-82		N	N	N
LITTLE REEDY CR NR ROUNDHILL, KY	03312130		1980-82		N	N	N
BARREN R AT ACKERSVILLE, KY	03312400	298.00	1970-72		N		N
SKAGGS CR NR GLASGOW, KY	03312680	141.00	1970-72		N		N
BAYS FK AT CLAYPOOL, KY	03313570	80.90	1960-68		N		N
UNNAMED NON-CONTRIB STREAM AT GREENHILL, KY	03313590		1968		N		N
TRAMMEL CR NR SCOTTSVILLE, KY	03313900	93.40	1970-72		N		N
DRAKES CR NR ALVATON, KY	03314000	478.00	1968-72		N	N	N
UNNAMED NON-CONTRIB STREAM AT THREE SPRINGS, KY	03314595		1968		N		N
JENNINGS CR NR LOST RIVER, KY	03314610		1968		N		N

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

STATION NAME AND NUMBER	STATION NUMBER	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	BIO. ACTIVE STATUS	PHY. ACTIVE STATUS	SED. ACTIVE STATUS	CHEMICAL ACTIVE STATUS
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
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

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

STATION NAME AND NUMBER	STATION NUMBER	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	BIO. ACTIVE STATUS	PHY. ACTIVE STATUS	SED. ACTIVE STATUS	CHEMICAL ACTIVE STATUS
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
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

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
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
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
ORION 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
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
	Length	
inch (in.)	2.54×10^{1}	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^{0}	kilometer
	Area	
acre	4.047×10^{3}	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi^2)	2.590×10^{0}	square kilometer
	Volume	
gallon (gal)	3.785×10^{0}	liter
	3.785×10^{0}	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^{3}	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft^3)	2.832×10^{1}	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^{3}	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second
	2.832×10^{1}	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^{1}	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
	Mass	
ton (short)	9.072×10^{-1}	megagram or metric ton

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.