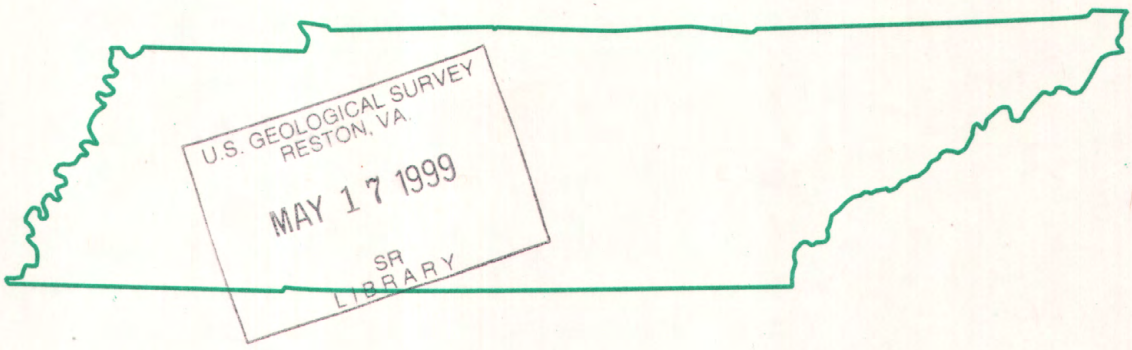
Water Resources Data Tennessee Water Year 1995



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT TN-95-1
Prepared in cooperation with the State of Tennessee
and with other agencies

CALENDAR FOR WATER YEAR 1995

1994

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1995

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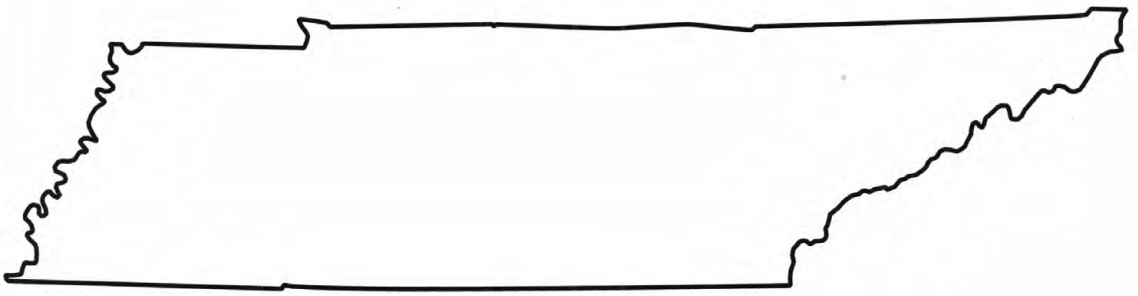
Water Resources Data Tennessee Water Year 1995

by D.F. Flohr, J.T. Hamilton, J.G. Lewis, and L.B. Thomas



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT TN-95-1
Prepared in cooperation with the State of Tennessee
and with other agencies

U.S. DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, SECRETARY

U.S. GEOLOGICAL SURVEY

Gordon P. Eaton, Director

For information on the water program in Tennessee write to:
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Nashville, Tennessee 37203

1996

PREFACE

This volume of the annual hydrologic data report of Tennessee 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 Geological Survey policy and established guidelines. Most of the data were collected, computed, and processed from the subdistrict offices under the supervision of the following subdistrict chiefs:

Bradley A. Bryan, Knoxville
W. Harry Doyle, Jr., Memphis
Jerry F. Lowery, Nashville

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

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J.C. Barnett	A.M. Fielder	T.D. Phillips
M.W. Bennett	A.C. Hickey	P.Powers
A.K. Brachmann	G.C. Johnson	J.M. Shelton
D.E. Butner	W.K. Kelly	R.Thomas
C.W. Comstock	J.A. Kingsbury	T.D. Turner
P.H. Counts	R.R. Knight	

This report was prepared in cooperation with the State of Tennessee and with other agencies under the general supervision of Jess D. Weaver, Data Management Section Chief, and Harold C. Mattraw, Jr., District Chief, Tennessee.

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

1. AGENCY USE ONLY *(Leave blank)*	2. REPORT DATE	3. REPORT TYPE AND DATES COVERED
	March 1996	Annual--Oct. 1, 1994 to Sept. 30, 1995

4. TITLE AND SUBTITLE
Water Resources Data--Tennessee, Water Year 1995

5. FUNDING NUMBERS

6. AUTHOR(S)
D.F. Flohr, J.T. Hamilton, J.G. Lewis, and L.B. Thomas

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)
U.S. Geological Survey, Water Resources Division
Tennessee District
810 Broadway, Suite 500
Nashville, TN 37203

8. PERFORMING ORGANIZATION REPORT NUMBER
USGS-WDR-TN-95-1

9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)
U.S. Geological Survey, Water Resources Division
Tennessee District
810 Broadway, Suite 500
Nashville, TN 37203

10. SPONSORING / MONITORING AGENCY REPORT NUMBER
USGS/WDR/TN-95-1

11. SUPPLEMENTARY NOTES
Prepared in cooperation with the Tennessee Department of Environment and Conservation; the Tennessee Valley Authority; and with other State, municipal, Federal agencies.

12a. DISTRIBUTION / AVAILABILITY STATEMENT
No restriction on distribution. This report may be purchased from National Technical Information Service, Springfield, Virginia 22161.

12b. DISTRIBUTION CODE

13. ABSTRACT *(Maximum 200 words)*

Water-resources data for the 1995 water year for Tennessee consists of records of stage, discharge and water quality of streams and springs; stage, contents, and water quality of lakes and reservoirs; water levels and water quality of wells; and quantity and quality of precipitation. This report contains discharge record for 84 gaging stations; stage only record of 1 gaging station; elevation and contents for 27 lakes and reservoirs; water quality at 21 gaging stations and 10 wells; water levels for 33 observation wells; and 1 precipitation station. Also included are 97 crest-stage partial-record stations. Additional water data were collected at various stream sites not involved in the systematic data-collection program and are published as miscellaneous measurements and analyses. These data represent the part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Tennessee.

14. SUBJECT TERMS
*Tennessee, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediment analyses, Water temperature, Sampling sites, Water levels, Water analyses.

15. NUMBER OF PAGES
445

16. PRICE CODE

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

CONTENTS

ILLUSTRATIONS

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

[Letter after station name designates type of data: (d) discharge, (c) chemical, (b) biological, (t) water temperature, (s) sediment, (e) elevation, gage heights, or contents]

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

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

GROUND-WATER WELLS, BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

GROUND-WATER WELLS, BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

QUALITY OF GROUND WATER, 1995 WATER YEAR

QUALITY OF PRECIPITATION

WATER RESOURCES DATA - TENNESSEE, 1995

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey (USGS), in cooperation with State, local, and Federal agencies, obtains a large amount of data pertaining to the water resources of Tennessee each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the USGS, the data are published annually in this report series entitled "Water Resources Data - Tennessee."

This report consists of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of ground-water wells. This volume contains discharge records for 85 gaging stations; stage only at 1 gaging station; stage and contents at 27 lakes and reservoirs; water quality for 18 stations, and 10 wells; and water levels at 30 observation wells. Also included are data for 97 crest-stage partial-record stations. Locations of these sites are shown on figures 4 through 7. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as miscellaneous measurements and miscellaneous analyses or as seepage investigations.

This series of annual reports for Tennessee began with the 1961 water year with a report that contained only data relating to the quantities of surface water. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels.

Prior to introduction of this series and for several years concurrent with it, water-resources data for Tennessee were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States." For the 1961 through 1970 years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Water of the United States," and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from the Books and Open-File Reports Section, Federal Center, Box 25425, Denver, Colorado 80225.

Publications similar to this report are published annually by the USGS for all States. These official Survey reports have 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 volume is identified as "U.S. Geological Survey Water-Data Report TN-95-1." For archiving and general distribution, the reports for the 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, VA 22161. Beginning with the 1990 water year, all water-data reports will also be available on Compact Disc - Read Only Memory (CD-ROM).

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 (615) 736-5424. A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

COOPERATION

The USGS and agencies of the State of Tennessee have had cooperative agreements for the systematic collection of streamflow records since 1918, for ground-water levels since 1946, and for water-quality records since 1960. Organizations that assisted in collecting data contained in this report through cooperative agreement with the Survey are:

Athens Utility District
Tennessee Department of Environment and Conservation
Tennessee Department of Transportation
Tennessee Wildlife Resources Agency
Upper Duck River Development Agency
Harpeth Valley Utility District
Cities, Towns, or Counties;
- Alcoa
- Camden
- Crossville
- Dickson
- Franklin
- Grundy
- Harriman
- Johnson City
- Knoxville
- Memphis
- Metropolitan Government of Nashville and Davidson County
- Murfreesboro
- Red Boiling Springs
- Rogersville
- Sevierville
- Tullahoma
- Wartrace
- Shelby County

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army, Nashville District, in collecting records for 6 gaging stations and 3 water-quality stations, by the Tennessee Valley Authority for 14 gaging stations, and by the U.S. Department of Energy for 11 gaging stations on Oak Ridge Reservation, the Department of the Air Force, Arnold Engineering Development Center for 3 water-quality stations, and by the U.S. Department of the Army, Ft. Campbell, for 3 gaging stations. All data are published in this report.

Organizations that supplied data are acknowledged in station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS

Surface Water

The State of Tennessee benefits from an abundance of streams, rivers, and lakes, The Tennessee and Cumberland are the largest rivers in the State, excluding the Mississippi River which flows along Tennessee's western boundary. The main stems of the Tennessee and Cumberland Rivers are highly regulated with a complex system of dams and reservoirs used for navigation, flood control, recreation, water supply, and hydroelectric power generation. Natural flow conditions occur only in tributaries to these rivers, or in other streams draining smaller basins throughout the State. Runoff data from these natural-flow streams can be used to describe the hydrologic conditions of the State for the 1995 water year.

A comparison of the mean discharges for the 1995 water year with the period-of-record mean at unregulated streams can be used to measure hydrologic conditions. The data for 1995 show that mean discharges at unregulated streams east of the Tennessee River (Kentucky Lake) ranged from 68 to 119 percent of the period-of- record mean. In West Tennessee mean discharges for 1995 ranged from about 64 to 93 percent of the period-of-record means. This comparison indicates that runoff during the water year varied from below average to slightly above average in East and Middle Tennessee and varied from below average to average on streams in West Tennessee.

The most significant flooding to occur during the 1995 water year occurred on January 15-16, 1995 on the Nolichucky River at Embreeville, Tennessee. The instantaneous peak discharge was measured at 64,000 cubic feet per second. A recurrence interval of slightly less than 50 years was associated with this flood event. This high discharge was the result of heavy precipitation, approximately 3 inches, falling onto saturated soils.

Peak flows on three streams in Middle Tennessee occurred on March 8, 1995. The Harpeth River at Franklin, Harpeth River near Kingston Springs and the Collins River at McMinnville recorded instantaneous values of 8,370, 18,300 and 13,300 cubic feet per second respectively; however, each of these peaks had less than a 2-year recurrence interval.

Ground Water

Ground-water levels at key aquifers throughout Tennessee were near normal during the 1995 water year. Ground-water levels are recorded continuously at a series of observation wells across the State (fig. 1). Water levels at well Ld:F-4 (Lauderdale County) is representative of conditions in West Tennessee and was near normal during most of the water year. Well Hm:O-15 (Hamilton County); and well Pm:C-1 (Putnam County) are representative of conditions in Middle, and East Tennessee and were above normal during much of the water year.

Water levels recorded from wells throughout Middle and East Tennessee generally respond faster and exhibit larger fluctuations than wells drilled into the sand and gravel aquifers of West Tennessee. Observation wells in Shelby County show that ground water levels are strongly affected by ground water withdrawals by the City of Memphis and surrounding communities. At well Sh:Q-1 (fig. 2), near downtown Memphis, water levels declined steadily since 1972, although a more stable rate of decline began in 1988. The decline in ground water levels in the Memphis area are not indicative of a reduction in the available ground-water supplies, but the response of the aquifer to additional withdrawals. Hydrographs showing lowest daily water levels for each of the continuous recording observation wells are included in the body of this report.

Water Quality

Water-quality data were collected at 20 surface-water sites during the 1995 water year. Four of these sites are part of the U.S. Geological Survey's National Stream Quality Accounting Network (NASQAN), where chemical, physical, and bacteriological determinations are made quarterly or bimonthly. These four stations are located on the Cumberland, Tennessee, Obion, and Hatchie Rivers. Data were also collected at two additional stations that are a part of the national Hydrologic Benchmark Network (HBN). Basins gaged as part of this network are relatively undisturbed by the activities of man. The HBN sites are located on the Buffalo and Little Rivers. Other surface-water quality activities in Tennessee included:

- Operation of four continuous monitors to measure temperature, dissolved oxygen, pH, and specific conductance in the Cumberland River Basin in support of the U.S. Army Corps of Engineers, Nashville District operations.

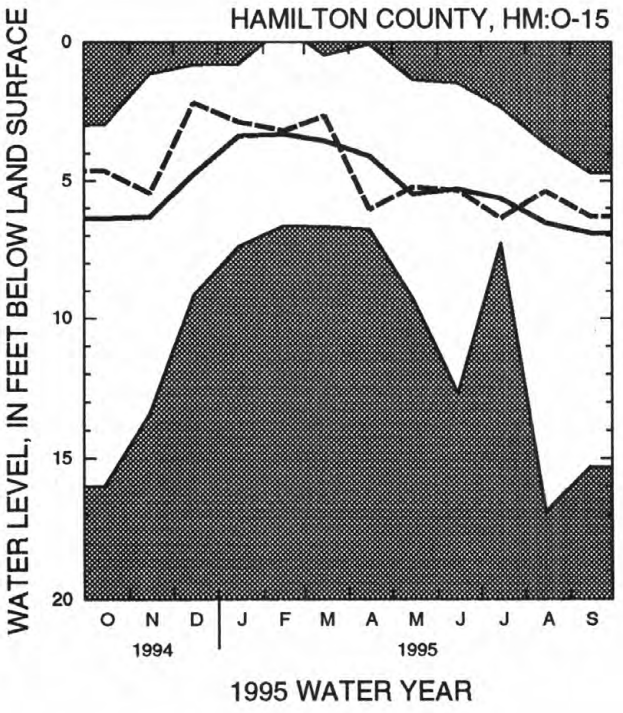
- Operation of three continuous monitors to measure temperature and pH in support of the Deparment of the Air Force, Arnold Engineering Development Center

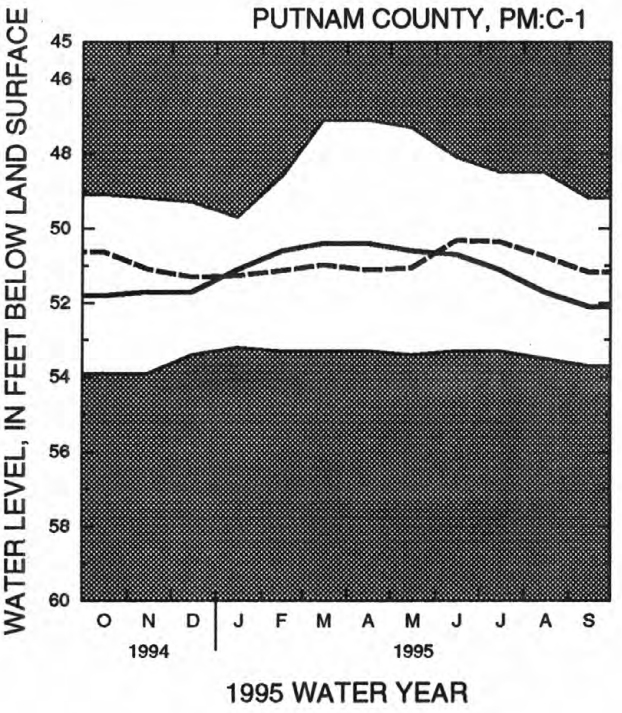
- Operation of a continuous monitor to measure temperature, dissolved oxygen, pH, and specific conductance in the West Fork Stones River in support of a water resources program for the City of Murfreesboro, Tennessee.

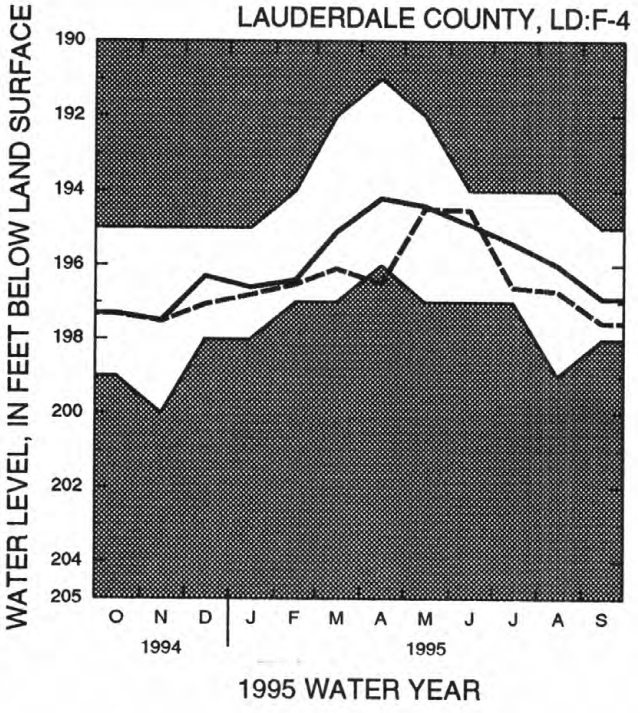
- Operation of a continuous monitor to measure temperature and dissolved oxygen of the Duck River in support of a water resources program with the Upper Duck River Development Agency.

- Determination of water quality of Carter's Creek in Maury County in support of a water resources study in that area.

The data from these networks did not identify any significant water-quality problems. Sanitary conditions (bacteria concentrations) at the stations were generally within the maximum allowable standards for human contact and recreation. There were no indications of toxic organics or inorganic compounds.







HYDROGRAPH EXPLANATION

NOTE: ALL GROUND-WATER LEVELS SHOWN REPRESENT MONTHLY MAXIMUM DEPTH TO WATER

------ CURRENT WATER YEAR DATA
MEDIAN FOR PERIOD OF RECORD

SHADED LINES SHOW EXTREMES FOR LOWEST WATER LEVEL RECORDED DURING THE MONTH FOR THE PERIOD OF RECORD

Figure 1. Ground-water levels for the 1995 water year compared to the maximum, minimum, and median water levels for the period of record.

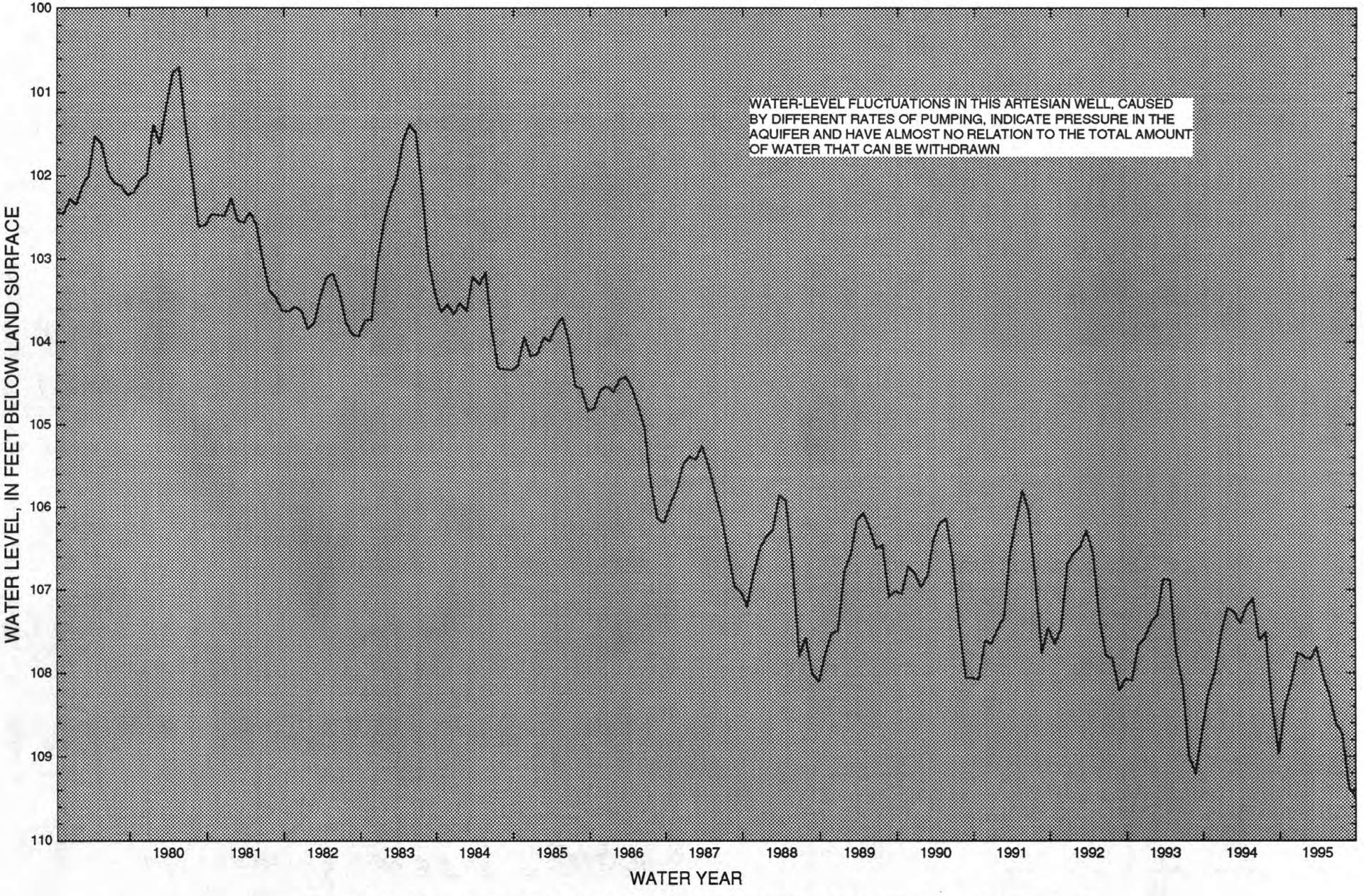


Figure 2. Hydrograph of well Sh:Q-1 in Shelby County showing long-term decline in water level.

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.

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 284 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.

NASQAN was redesigned in 1995 and will be known at 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 remobilization 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 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).

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 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.

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 water. 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 RECORDS

The surface-water and ground-water records published in this report are for the 1994 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, stage and content data for lakes and reservoirs, water-quality data for surface and ground water, and ground-water-level data. The locations of the stations and wells where the data were collected are shown in figures 4 through 7. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station, whether streamsite or well, in this report is assigned a unique identification number. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the USGS 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 surface-water stations and the "latitude-longitude" system is used for wells.

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 show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

Each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. 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 number for each station such as 03540500...., which appears just to the left of the station name, includes the 2-digit part number "03" plus the multi-digit downstream order number "540500...." This downstream numbering system is used in most cases; however, in some cases latitude and longitude numbers are assigned to hydrologic stations and partial-record stations as a means of identification (See Numbering System for Wells).

Numbering system for wells

Downstream order station numbers are not assigned to wells. The well numbering system of the USGS is based on the grid system of latitude and longitude. The system provides the geographic location of the well and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells within a 1-second grid.

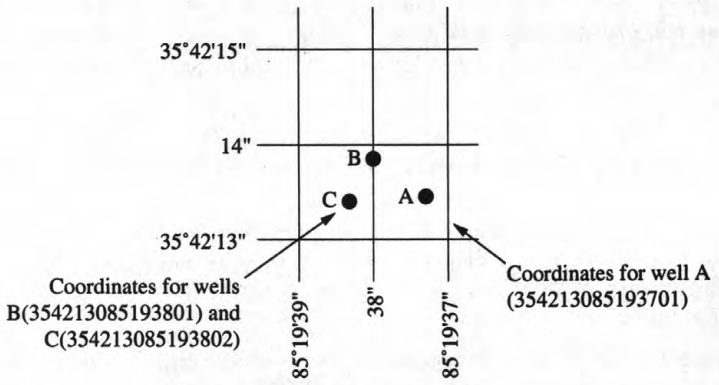


Figure 3.--System for numbering wells (latitude and longitude).

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. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

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," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report.

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relation 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 relation 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 analog recorders that trace continuous graphs of 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 adapted by the USGS. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water Resources Investigations (TWRI's), Book 3, Chapter A1 through A19 and Book 8, Chapters A2 and B2. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

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 from gage heights and rating 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 computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes of the personnel making the measurements are used in applying the gage heights to the rating tables. The 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 comparable records of discharge for other stations in the same or nearby basins.

At some stream-gaging stations, the stage-discharge relation is affected by 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 a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed. If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

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. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. 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 consist 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 includes 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 the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileage is that determined and used by the USGS, Tennessee Valley Authority, U.S. Army Corps of Engineers, or other agencies using methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies 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 there are published records for the station or for an equivalent station. An equivalent station is one whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual 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. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

GAGE.--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see "Definition of terms"), 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 times. 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 USGS 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 USGS.

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; 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 includes large noncontributing areas. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion 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 (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 water 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. When the designated period is not the same as the station period of record published in the manuscript, values and dates of occurrence for daily and instantaneous extremes outside the designated period 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 footnote.

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. At least 5 complete years of record must be available before this statistic is published for the designated period.

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 climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

INSTANTANEOUS 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 (AC-FT).--Indicates the depth, in acre-feet, to which the drainage area would be covered if all the runoff for the year were uniformly distributed on it.

ANNUAL RUNOFF (CFSM).--Indicates 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 for the year.

ANNUAL RUNOFF (INCHES).--Indicates the depth to which the drainage area would be covered if all the runoff for the year 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 the true; "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 3 significant figures to 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 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 Data Available

Records of discharge, not published by the USGS, are collected in Tennessee at several sites by the U.S. Army Corps of Engineers and Tennessee Valley Authority. the National Water Data Exchange (NAWDEX), U.S. Geological Survey, Reston, VA 22092, maintains an index of these sites as well as an index of records of discharge collected by other agencies but not published by the USGS. Information on records at specific sites can be obtained from that office upon request.

Information used in the preparation of the records in this publication, such as discharge-measurements notes, gage-height records, temperature measurements, and rating tables are on file in the Tennessee District office. 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 District office.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are collected at or near stream-gaging stations. 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.

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 onsite 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 onsite measurements and for collecting, treating, and shipping samples are detailed in the TWRI Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. These references are listed in the PUBLICATIONS OF TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS section of this report. These methods are consistent with ASTM standards and generally follow ISO standards.

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 (NASQAN) (see definitions) are obtained from at least several verticals.

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.

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 USGS will begin using new trace-element protocols in the near future.

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 USGS District Office 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, maximum, minimum, and mean temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the District office and are also published in this report.

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 section.

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 loads 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 water discharge. Methods used in the computation of sediment records are described in the TWRI Book 3, Chapters C1 and C3. These methods are consistent with ASTM standards and generally follow ISO standards.

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.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

Laboratory Measurements

Sediment samples, samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the USGS laboratories in Arvada, Colo. Methods used to analyze sediment samples and to compute sediment records are described in the TWRI Book 5, Chapter C1. Methods used by the USGS laboratories are given in the TWRI Book 1, Chapter D2; Book 3, Chpater C2; and Book5, Chapters A1, A3, A4, and A5. These methods are consistent with ASTM standards and generally follow ISO standards.

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 recorder, 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 USGS 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 USGS's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Users of USGS water-quality data should be aware of this update procedure because corrections are not documented in the State data-report series.

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.

Remark Codes

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

PRINTED 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 organisms count less than 0.5 percent (organisms may be observed rather than counted)
D	Biological organism count equal to or greater than 15 percent (dominant)
&	Biological organism estimated as dominant

Dissolved Tace-Element Concentrations

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 acutally represnet 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

Samples 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

Only ground-water level data from a basic network of observation wells are published herein. This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers.

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. Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs.

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 in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

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 in 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 only to a tenth of a foot or a larger unit.

Data Presentation

Each well record consists of three parts, the station description, the data table of water levels observed during the current water year, and a graph of the water levels for the current water year or other selected period. 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 of the well description.

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); 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 are also 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 USGS 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 USGS, 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. For wells equipped with recorders, only abbreviated tables are published; generally, only water-level lows are listed for every fifth day and at the end of the month (eom). The highest and lowest water levels of the water year and their dates of occurrence are shown on a line below the abbreviated 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. A hydrograph for a selected period of record follows each water-level table.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that for most sampling sites they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes slowly; therefore, for most general purposes one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey TWRI publications referred to in the "On-site Measurements and Sample Collection" and the "Laboratory Measurements" sections in this data report. In addition, the TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Data Presentation

The records of ground-water quality are published in a section titled QUALITY OF GROUND WATER immediately following the ground-water-level records. Data for quality of ground water are listed alphabetically by County and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARK codes listed for surface-water-quality records are also applicable to ground-water-quality records.

EXPLANATION OF PRECIPITATION-QUALITY RECORDS

Collection of the Data

The precipitation-quality records in this report are for one site operated by the USGS in the National Trends Network. Field measurements of pH and specific conductance of weekly composite precipitation samples and daily precipitation quantity are made. Other chemical analyses for all National Trends Network sites are performed by the Central Analytical Laboratory of the Illinois Water Survey. A numerical agency code (17003) has been assigned to the Illinois Water-Survey for data storage purposes.

ACCESS TO WATSTORE DATA

The USGS is the principal 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 USGS'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 USGS 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 USGS 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 USGS collects or has collected data.

* Daily Values File - Contains more than 220 million daily values of stream flows, stages, reservoir contents, water temperatures, specific conductances, sediment concentrations, sediment discharges, and ground-water levels.

* Peak Flow File - Contains approximately 500,000 maximum (peak) streamflow and gage-height values at surface-water sites.

* Water-Quality File - Contains approximately 2 million analyses of water samples that describe the chemical, physical, biological, and radio-chemical characteristics of both surface and ground water.

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

In 1976, the USGS 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 requestor 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 USGS National Center
Reston, Virginia 22092

In addition to providing direct access to WATSTORE, data can be provided in various machine-readable formats on magnetic tape or 5¼ inch floppy disk; and, as noted in the introduction, on CD-ROM discs. Beginning with the 1990 water year, all water-data reports will also be available on Compact Disc - Read Only Memory (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 Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 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.

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.

Fecal coliform bacteria are bacteria that are present in the intestines 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 which produce blue colonies within 24 hours when incubated at 44.5 °C ± 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 intestines 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 ± 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 unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Bottom material in tables of data, refers to the chemical analysis of unconsolidated matter described as bed material and specifically includes anthropogenic matter in addition to natural solid material.

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.

Cubic feet per second per square mile [$(ft^3/s)/mi^2$] (CFSM) 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.

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 approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Cubic foot per second-day [$(ft^3/s)/d$] is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,445 cubic meters.

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.

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.)

Dissolved is that material in a representative water sample which passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved-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 noted.

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 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 attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

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 well.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per gram ($\mu g/g$) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent sorbed per unit mass (gram) of sediment.

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

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent 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) 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 is a nationwide data-collection network designed by the USGS 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.

The National Trends Network 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).

Parameter Code is a 5-digit number used in the USGS 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 suspended sediment or bed material 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.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

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

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

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 only 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.

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

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 of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

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.

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).

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 the quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the total quantity of sediment (suspended-sediment and bed-load) as measured by dry weight or volume, that passes a section during a specified period.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with 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 the 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.

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-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be 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-micrometer 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.

Thermograph is an instrument that continuously records variations of water temperature on a chart. The more general term "temperature recorder" is the term used in the table headings and refers to any instrument that records water 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 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 mixture and that the analytical method determined all of the constituent in the sample.)

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

Total load is the quantity of any individual constituent, as measured by dry mass or volume that passes through a section during a specified period. It is computed by multiplying the total stream discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

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 would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Water year in USGS reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1980, is called the "1980 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.

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1976.

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

PUBLICATION OF 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, Books and Open-File Reports Section, Federal Center, Box 25425, 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 applies to ground-water investigations*, by W. Scott 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 Warren 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 measurements at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS--TWRI Book 3, Chapter A7, 1968. 28 pages.

3-A8. *Discharge measurements at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A9. *Measurement of time of travel in streams by dye tracing*, by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.

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

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

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Cumberland River Basin

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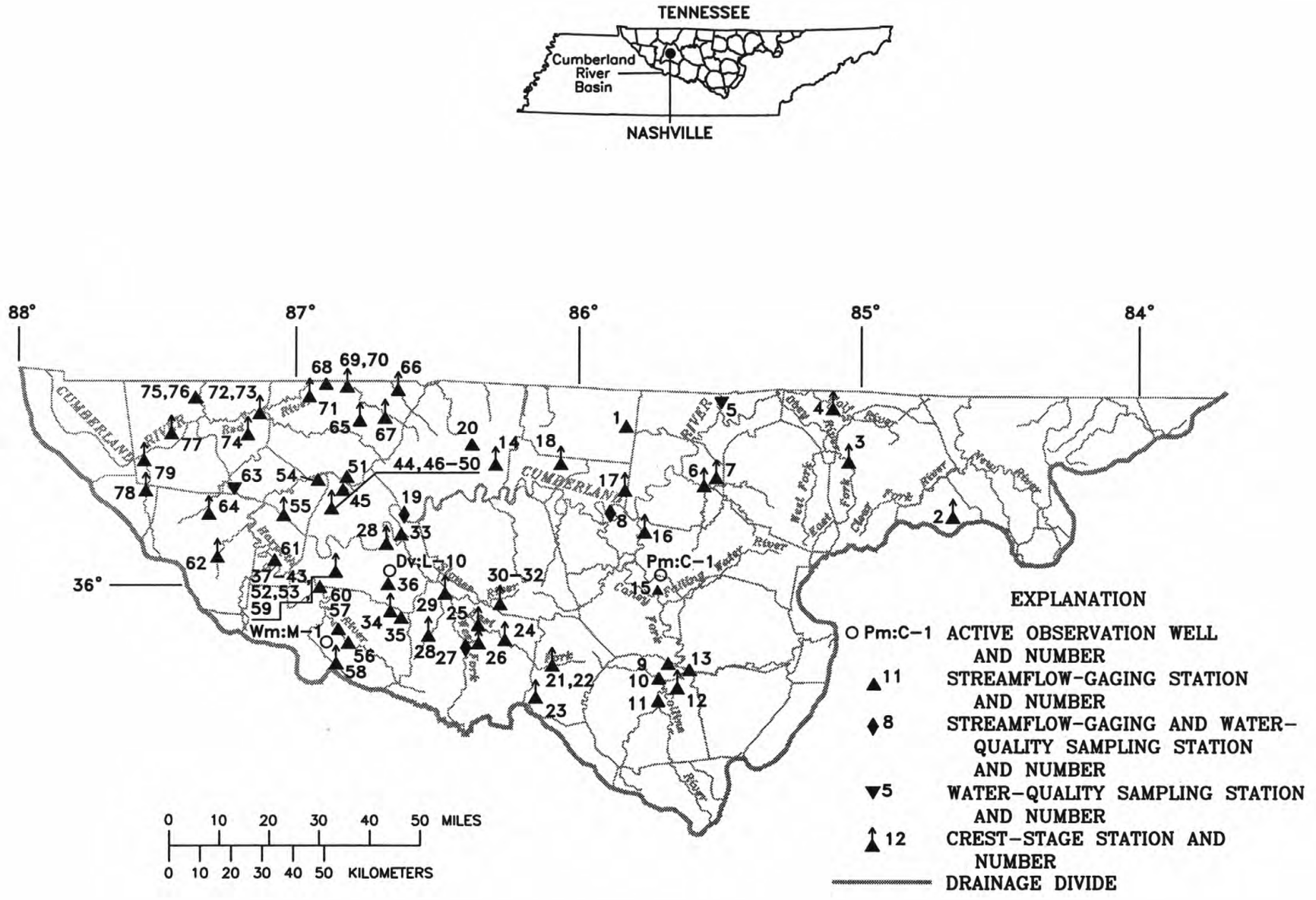


Figure 4.--Location of gaging sites in the Cumberland River Basin.

GREEN RIVER BASIN

03312255 SALT LICK CREEK AT RED BOILING SPRINGS, TN

LOCATION.--Lat 36°32'27", long 85°51'01", Macon County, Hydrologic Unit 05110002, near left bank on downstream end of bridge pier on Lake Road, 0.2 mi north of intersection of Lake Road and State Highway 50, 56, 0.6 mi north of Red Boiling Springs, and at mile 16.3.

DRAINAGE AREA.--12.6 mi².

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

GAGE.--Data collection platform. Elevation of gage is 750 ft above sea level from topographic map.

REMARKS.--No estimated daily discharges. Records good except for discharges above 600 ft³/s which are fair. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 27	2300	*1,340	*7.39	May 14	0815	420	5.45
Jan. 6	1645	488	5.66	Aug. 7	0800	401	5.39
Mar. 7	2230	978	6.78				

Minimum daily discharge, 1.5 ft³/s, Sept. 30.

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	3.8	6.2	22	17	14	14	18	24	47	8.9	3.5	2.3
2	4.0	5.7	21	17	15	13	17	25	108	7.1	3.2	2.4
3	4.2	5.5	20	16	14	13	17	20	38	6.6	3.0	2.3
4	4.0	5.4	30	16	14	13	17	19	28	6.8	3.0	2.3
5	3.6	6.8	30	17	13	17	17	17	24	11	5.3	2.1
6	3.6	13	25	160	13	23	16	15	18	9.5	6.5	2.2
7	3.5	8.5	23	91	13	173	16	15	12	6.9	67	2.2
8	3.6	7.3	21	39	13	403	15	14	10	6.2	15	2.1
9	12	7.0	21	27	13	81	15	28	9.1	5.5	9.9	2.4
10	7.5	7.3	70	22	13	54	15	23	8.8	5.1	8.3	2.5
11	5.7	6.7	53	27	13	42	15	19	14	4.9	7.4	2.4
12	5.4	6.2	33	28	12	36	22	17	16	4.9	6.6	2.6
13	18	6.1	27	23	12	32	18	17	11	4.4	6.3	5.8
14	11	5.9	24	71	13	30	16	115	9.3	4.1	5.9	4.8
15	8.3	5.9	22	94	68	28	15	44	8.2	3.7	5.2	3.5
16	6.9	6.3	22	69	67	27	15	34	7.6	4.5	5.2	6.5
17	6.0	6.3	23	41	43	26	16	30	7.7	4.2	4.4	6.1
18	5.9	6.1	22	30	31	24	15	42	8.4	4.0	4.6	3.2
19	6.1	5.4	21	26	26	24	14	45	8.9	3.7	4.5	2.3
20	6.3	5.7	20	23	23	24	17	30	11	3.5	3.9	2.0
21	6.0	5.6	20	20	20	23	47	23	8.4	3.5	3.9	1.9
22	7.7	5.5	19	18	18	22	25	20	7.4	3.8	3.5	2.0
23	8.2	5.4	19	17	17	22	26	17	7.0	7.1	2.9	2.0
24	6.6	5.4	19	16	16	21	28	16	6.6	7.3	2.7	2.1
25	6.1	5.3	18	15	15	20	23	14	6.1	5.2	2.8	2.0
26	5.8	6.0	18	15	15	19	20	13	5.9	4.3	2.6	2.3
27	5.7	168	17	15	15	21	19	13	6.1	6.4	2.6	2.0
28	5.7	193	17	17	14	20	18	15	5.7	5.5	2.7	1.8
29	5.6	37	17	16	---	19	16	14	5.2	4.4	2.7	1.7
30	5.7	26	17	15	---	19	16	12	5.5	4.0	2.5	1.5
31	5.9	---	17	14	---	18	---	12	---	3.7	2.1	---
TOTAL	198.4	590.5	748	1032	573	1321	564	762	468.9	170.7	209.7	81.3
MEAN	6.40	19.7	24.1	33.3	20.5	42.6	18.8	24.6	15.6	5.51	6.76	2.71
MAX	18	193	70	160	68	403	47	115	108	11	67	6.5
MIN	3.5	5.3	17	14	12	13	14	12	5.2	3.5	2.1	1.5
CFSM	.51	1.56	1.92	2.64	1.62	3.38	1.49	1.95	1.24	.44	.54	.22
IN.	.59	1.74	2.21	3.05	1.69	3.90	1.67	2.25	1.38	.50	.62	.24

GREEN RIVER BASIN

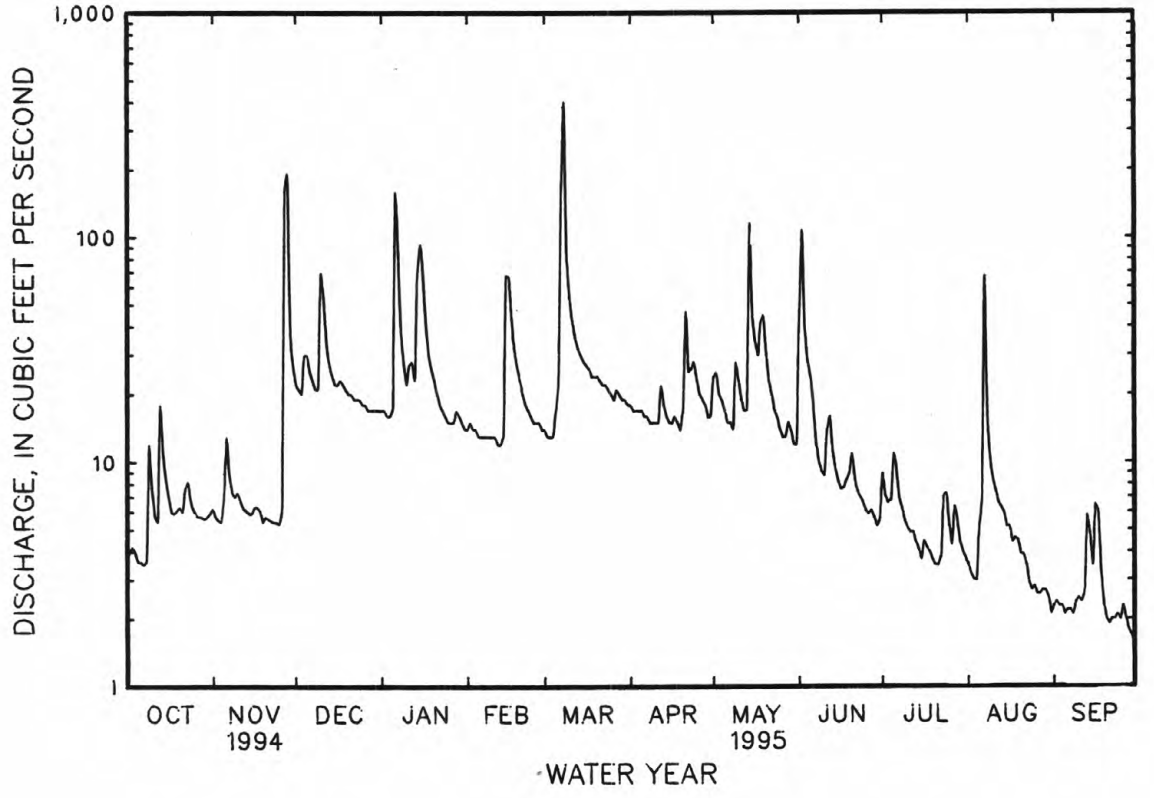
03312255 SALT LICK CREEK AT RED BOILING SPRINGS, TN--Continued

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

MEAN	7.45	15.5	36.6	39.1	37.8	50.8	27.8	18.2	15.0	10.1	6.08	5.17
MAX	10.1	19.7	63.6	48.9	95.2	89.3	55.7	24.6	23.1	17.6	9.13	9.29
(WY)	1992	1995	1992	1992	1994	1994	1994	1995	1992	1992	1992	1992
MIN	6.09	10.5	24.1	28.7	16.5	27.9	16.8	11.5	8.69	4.37	3.17	2.71
(WY)	1994	1992	1995	1993	1992	1993	1992	1992	1993	1993	1991	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1991 - 1995	
ANNUAL TOTAL	11908.7		6719.5			
ANNUAL MEAN	32.6		18.4		22.5	
HIGHEST ANNUAL MEAN					32.8	1994
LOWEST ANNUAL MEAN					15.2	1993
HIGHEST DAILY MEAN	783	Mar 9	403	Mar 8	783	Mar 9 1994
LOWEST DAILY MEAN	3.5	Oct 7	1.5	Sep 30	1.5	Sep 30 1995
ANNUAL SEVEN-DAY MINIMUM	3.8	Oct 2	1.9	Sep 24	1.9	Sep 9 1993
INSTANTANEOUS PEAK FLOW			1340	Nov 27	a3820	Dec 2 1991
INSTANTANEOUS PEAK STAGE			7.39	Nov 27	b9.97	Dec 2 1991
ANNUAL RUNOFF (CFSM)	2.59		1.46		1.79	
ANNUAL RUNOFF (INCHES)	35.16		19.84		24.26	
10 PERCENT EXCEEDS	64		30		36	
50 PERCENT EXCEEDS	16		13		13	
90 PERCENT EXCEEDS	5.5		3.2		3.8	

a From rating curve extended above 350 ft³/s on basis of flood profile computations.
b From high-water marks.



CUMBERLAND RIVER BASIN

03409700 EAST BRANCH BEAR CREEK NEAR ONEIDA, TN

LOCATION.--Lat 36°32'42", long 84°29'19", Scott County, Hydrologic Unit 05130104, on left bank 20ft downstream of Bear Creek Road, 3.5 mi north of Oneida.

DRAINAGE AREA.--

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.-- April 1994 to April 1995 (discontinued).

GAGE.--Water stage recorder. Datum of gage 1340 ft above sea level from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--April 1994 to April 1995: Maximum discharge 457 ft^3/s, Apr. 29, 1994, gage height 3.28 ft, from rating curve extended above 94 ft^3/s; minimum 0.03 ft^3/s, Aug. 10, 12, 17, 18, and 19, 1994.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR APRIL 1994 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e12	17	.76	.67	.09	e1.0
2	---	---	---	---	---	---	9.9	10	.70	.46	.08	.55
3	---	---	---	---	---	---	8.8	8.4	.66	.35	.07	.38
4	---	---	---	---	---	---	7.2	7.1	.47	.29	.06	.28
5	---	---	---	---	---	---	7.0	5.9	.39	.26	.32	.27
6	---	---	---	---	---	---	17	4.8	.45	.20	.12	.37
7	---	---	---	---	---	---	15	6.6	1.2	e.16	.08	.26
8	---	---	---	---	---	---	11	8.5	4.5	e.20	.07	.20
9	---	---	---	---	---	---	8.2	6.0	1.3	e.30	.06	.17
10	---	---	---	---	---	---	15	4.4	1.1	e.25	.05	.15
11	---	---	---	---	---	---	62	3.3	.96	e.45	.05	.13
12	---	---	---	---	---	---	32	2.6	.67	e.35	.04	.09
13	---	---	---	---	---	---	51	2.0	.53	e5.0	.04	.08
14	---	---	---	---	---	---	16	1.7	2.2	e2.0	.04	.07
15	---	---	---	---	---	---	58	3.8	1.7	e.60	.03	.07
16	---	---	---	---	---	---	37	2.6	1.0	e1.5	.03	.07
17	---	---	---	---	---	---	13	1.7	.72	e.40	.03	1.2
18	---	---	---	---	---	---	7.8	1.3	.62	e.30	.03	.61
19	---	---	---	---	---	---	5.5	1.1	.40	e.25	.03	.33
20	---	---	---	---	---	---	3.9	1.0	.31	e.20	.54	.25
21	---	---	---	---	---	---	2.9	.89	1.6	e.28	3.9	.20
22	---	---	---	---	---	---	2.4	.79	1.4	.39	.23	.18
23	---	---	---	---	---	---	1.9	.68	.76	.25	.11	.27
24	---	---	---	---	---	---	1.5	.61	.87	.16	.07	.48
25	---	---	---	---	---	---	1.2	.53	.57	.13	.07	.38
26	---	---	---	---	---	---	.99	19	3.8	.29	16	.32
27	---	---	---	---	---	---	6.7	11	4.2	.18	2.8	.25
28	---	---	---	---	---	---	4.9	4.1	2.0	.17	.54	.20
29	---	---	---	---	---	---	68	2.2	1.5	.19	3.7	.17
30	---	---	---	---	---	---	37	1.4	1.0	.15	1.2	.13
31	---	---	---	---	---	---	---	.96	---	.10	e2.0	---
TOTAL	---	---	---	---	---	---	524.79	141.96	38.34	16.48	32.48	9.11
MEAN	---	---	---	---	---	---	17.5	4.58	1.28	.53	1.05	.30
MAX	---	---	---	---	---	---	68	19	4.5	5.0	16	1.2
MIN	---	---	---	---	---	---	.99	.53	.31	.10	.03	.07

e Estimated

CUMBERLAND RIVER BASIN

03409700 EAST BRANCH BEAR CREEK NEAR ONEIDA, TN--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO APRIL 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.15	.62	.37	2.9	1.8	1.1	---	---	---	---	---
2	.09	.12	.51	.50	2.9	1.7	1.1	---	---	---	---	---
3	.15	.11	.44	.35	2.6	1.7	1.0	---	---	---	---	---
4	.14	.10	2.2	.34	3.1	1.7	.97	---	---	---	---	---
5	.13	.10	5.4	.29	2.6	3.5	.87	---	---	---	---	---
6	.11	.13	2.1	25	2.5	13	.85	---	---	---	---	---
7	.08	.12	1.3	16	2.4	10	.82	---	---	---	---	---
8	.05	.10	.93	5.4	2.1	68	.77	---	---	---	---	---
9	.48	.10	.77	3.4	2.0	17	.76	---	---	---	---	---
10	.27	.16	5.5	2.3	1.4	12	.70	---	---	---	---	---
11	.15	.13	5.1	5.4	1.3	11	.65	---	---	---	---	---
12	.11	.11	2.5	8.2	1.2	8.8	2.3	---	---	---	---	---
13	.59	.10	1.6	5.2	1.2	6.4	1.6	---	---	---	---	---
14	.30	.10	1.2	47	1.1	4.8	1.4	---	---	---	---	---
15	.24	.10	.92	41	36	3.9	1.3	---	---	---	---	---
16	.19	.12	.91	20	23	3.1	1.2	---	---	---	---	---
17	.14	.12	1.0	8.8	14	2.5	1.4	---	---	---	---	---
18	.11	.09	.79	5.5	8.6	2.2	1.3	---	---	---	---	---
19	.17	.08	.68	5.2	6.1	1.9	1.1	---	---	---	---	---
20	.20	.07	.62	4.7	4.8	2.7	1.6	---	---	---	---	---
21	.16	.07	.55	3.8	3.8	4.2	13	---	---	---	---	---
22	.17	.07	.52	3.1	2.9	3.6	7.1	---	---	---	---	---
23	.19	.06	.50	2.6	2.6	3.2	8.4	---	---	---	---	---
24	.15	.05	.45	2.1	2.2	2.4	11	---	---	---	---	---
25	.13	.05	.42	1.8	1.8	2.0	6.6	---	---	---	---	---
26	.12	.06	.38	1.6	1.8	1.8	4.4	---	---	---	---	---
27	.10	.95	.37	1.6	2.0	2.1	3.2	---	---	---	---	---
28	.10	12	.34	3.1	2.3	1.6	2.4	---	---	---	---	---
29	.10	1.7	.34	4.1	---	1.4	1.9	---	---	---	---	---
30	.11	.91	.32	4.0	---	1.3	2.4	---	---	---	---	---
31	.13	---	.33	3.4	---	1.2	---	---	---	---	---	---
TOTAL	5.26	18.13	39.61	236.15	141.2	202.5	83.19	---	---	---	---	---
MEAN	.17	.60	1.28	7.62	5.04	6.53	2.77	---	---	---	---	---
MAX	.59	12	5.5	47	36	68	13	---	---	---	---	---
MIN	.05	.05	.32	.29	1.1	1.2	.65	---	---	---	---	---

CUMBERLAND RIVER BASIN

03409710 EAST BRANCH BEAR CREEK TRIBUTARY NEAR ONEIDA, TN

LOCATION.--Lat 36°32'52", long 84°29'48", Scott County, Hydrologic Unit 05130104, on right bank, 15 ft downstream of dirt road, 3.5 mi north of Oneida.

DRAINAGE AREA.--

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--April 1994 to April 1995 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1375 ft above sea level from topographic map.

REMARKS.--No estimated daily discharges. Records poor.

EXTREMES FOR PERIOD OF RECORD.--April 1994 to April 1995: Maximum discharge, 52 ft^3/s, Apr. 29, 1994, gage height 3.05 ft, from rating curve extended above 16 ft^3/s; minimum 0.04 ft^3/s Oct. 17, 18, 19, 1994.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR APRIL 1994 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	1.9	2.3	.24	.18	.12	.26
2	---	---	---	---	---	---	1.5	1.3	.24	.16	.11	.23
3	---	---	---	---	---	---	1.5	1.3	.23	.14	.10	.19
4	---	---	---	---	---	---	1.2	1.1	.20	.14	.11	.17
5	---	---	---	---	---	---	1.2	.87	.19	.13	.22	.19
6	---	---	---	---	---	---	2.5	.73	.22	.12	.15	.23
7	---	---	---	---	---	---	1.6	1.2	.38	.11	.14	.19
8	---	---	---	---	---	---	1.2	1.1	.68	.13	.14	.17
9	---	---	---	---	---	---	1.1	.67	.31	.14	.12	.16
10	---	---	---	---	---	---	2.4	.56	.29	.13	.11	.15
11	---	---	---	---	---	---	8.5	.47	.25	.23	.10	.14
12	---	---	---	---	---	---	3.9	.42	.21	.20	.09	.14
13	---	---	---	---	---	---	5.4	.38	.19	1.5	.08	.13
14	---	---	---	---	---	---	2.3	.36	.33	.44	.08	.13
15	---	---	---	---	---	---	9.4	.62	1.0	.29	.09	.14
16	---	---	---	---	---	---	5.7	.43	.39	.92	.09	.14
17	---	---	---	---	---	---	2.4	.33	.25	.46	.10	.51
18	---	---	---	---	---	---	1.7	.30	.21	.25	.10	.32
19	---	---	---	---	---	---	1.4	.28	.19	.19	.09	.24
20	---	---	---	---	---	---	1.2	.27	.17	.17	.20	.20
21	---	---	---	---	---	---	.99	.25	.62	.16	1.2	.19
22	---	---	---	---	---	---	.89	.23	.45	.18	.20	.17
23	---	---	---	---	---	---	.77	.22	.29	.17	.14	.18
24	---	---	---	---	---	---	.70	.20	.30	.15	.13	.24
25	---	---	---	---	---	---	.64	.28	.23	.14	.12	.19
26	---	---	---	---	---	---	.62	4.0	.79	.16	1.5	.16
27	---	---	---	---	---	---	2.4	.98	.59	.17	.42	.15
28	---	---	---	---	---	---	.92	.49	.31	.17	.20	.14
29	---	---	---	---	---	---	7.8	.37	.28	.15	.85	.13
30	---	---	---	---	---	---	4.1	.30	.22	.15	.31	.10
31	---	---	---	---	---	---	---	.26	---	.13	.35	---
TOTAL	---	---	---	---	---	---	77.83	22.57	10.25	7.76	7.76	5.68
MEAN	---	---	---	---	---	---	2.59	.73	.34	.25	.25	.19
MAX	---	---	---	---	---	---	9.4	4.0	1.0	1.5	1.5	.51
MIN	---	---	---	---	---	---	.62	.20	.17	.11	.08	.10

CUMBERLAND RIVER BASIN

03409710 EAST BRANCH BEAR CREEK TRIBUTARY NEAR ONEIDA, TN--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO APRIL 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.08	.20	.12	.32	.35	.27	---	---	---	---	---
2	.10	.07	.18	.13	.39	.31	.27	---	---	---	---	---
3	.11	.07	.18	.11	.37	.32	.26	---	---	---	---	---
4	.09	.07	.57	.10	.44	.31	.26	---	---	---	---	---
5	.09	.07	.77	.10	.37	.60	.24	---	---	---	---	---
6	.08	.09	.23	3.7	.37	1.7	.23	---	---	---	---	---
7	.07	.08	.17	1.3	.36	.85	.22	---	---	---	---	---
8	.07	.08	.14	.53	.34	8.0	.22	---	---	---	---	---
9	.18	.09	.14	.39	.34	2.2	.22	---	---	---	---	---
10	.13	.11	.90	.32	.40	1.6	.22	---	---	---	---	---
11	.09	.09	.39	.89	.39	1.4	.23	---	---	---	---	---
12	.07	.08	.20	.72	.33	1.1	.69	---	---	---	---	---
13	.14	.08	.16	.45	.33	.82	.31	---	---	---	---	---
14	.08	.08	.14	6.5	.34	.68	.26	---	---	---	---	---
15	.06	.08	.13	5.0	5.2	.58	.25	---	---	---	---	---
16	.05	.09	.15	2.1	2.6	.50	.25	---	---	---	---	---
17	.05	.09	.16	1.1	1.3	.45	.34	---	---	---	---	---
18	.04	.08	.13	.76	.90	.40	.31	---	---	---	---	---
19	.07	.09	.12	.87	.72	.36	.27	---	---	---	---	---
20	.07	.08	.11	.72	.60	.66	.39	---	---	---	---	---
21	.06	.09	.11	.51	.51	.64	2.4	---	---	---	---	---
22	.07	.08	.11	.43	.43	.42	.58	---	---	---	---	---
23	.07	.08	.11	.38	.40	.39	1.5	---	---	---	---	---
24	.06	.08	.10	.36	.37	.33	1.3	---	---	---	---	---
25	.06	.09	.10	.34	.34	.31	.57	---	---	---	---	---
26	.06	.09	.10	.31	.32	.30	.40	---	---	---	---	---
27	.06	.28	.10	.32	.39	.37	.33	---	---	---	---	---
28	.06	3.2	.10	.55	.44	.31	.30	---	---	---	---	---
29	.06	.32	.10	.56	---	.29	.26	---	---	---	---	---
30	.07	.23	.10	.39	---	.29	.37	---	---	---	---	---
31	.07	---	.10	.35	---	.27	---	---	---	---	---	---
TOTAL	2.44	6.19	6.30	30.41	19.61	27.11	13.72	---	---	---	---	---
MEAN	.079	.21	.20	.98	.70	.87	.46	---	---	---	---	---
MAX	.18	3.2	.90	6.5	5.2	8.0	2.4	---	---	---	---	---
MIN	.04	.07	.10	.10	.32	.27	.22	---	---	---	---	---

CUMBERLAND RIVER BASIN

03417500 CUMBERLAND RIVER AT CELINA, TN

WATER-QUALITY RECORDS

LOCATION.--Lat 36°33'15", long 85°30'52", Clay County, Hydrologic Unit 05130106, on right bank at State Highway 52 bridge, 0.5 mi northwest of courthouse in Celina, 600 ft downstream from Obey River, and at mile 380.8.

DRAINAGE AREA.--7,307 mi².

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1991 to current year.
pH: November 1991 to current year.
WATER TEMPERATURE: November 1991 to current year.
DISSOLVED OXYGEN: October 1992 to current year.

INSTRUMENTATION.--Data collection platform and water-quality monitor.

REMARKS.--Flow regulated by Lake Cumberland (station 03413500) and Dale Hollow Lake (station 03416500). Interruptions in the record were due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 280 microsiemens, Aug. 29, 1992; minimum, 113 microsiemens, Mar. 27, 1994.
pH: Maximum, 8.5 units, Mar. 3, 4, 6, 1992; minimum, 6.2 units, Sept. 14, 1993.
WATER TEMPERATURE: Maximum, 18.4°C, May 9, 1995; minimum, 2.5°C, Feb. 9, 1995.
DISSOLVED OXYGEN: Maximum, 12.8 mg/L, Feb. 8, 9, 1995; minimum, 7.1 mg/L, Dec. 9, 10, 17, 18, 1994, Sept. 10, 11, 1995.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 233 microsiemens, July 27; minimum, 153 microsiemens, Dec. 8.
pH: Maximum, 8.1 units, Aug. 22, 23, 24; minimum, 6.5 units, May 18, Sept. 17.
WATER TEMPERATURE: Maximum, 18.4°C, May 9; minimum, 2.5°C, Feb. 9.
DISSOLVED OXYGEN: Maximum, 12.8 mg/L, Feb. 8, 9; minimum, 7.1 mg/L, Dec. 9, 10, 17, 18, Sept. 10, 11.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), 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	168	163	163	173	169	172	185	179	183	---	---	---
2	167	162	163	174	169	171	182	175	178	---	---	---
3	166	162	165	174	170	172	181	176	178	---	---	---
4	166	161	163	177	174	174	182	178	180	---	---	---
5	165	165	165	177	173	174	183	173	179	204	195	199
6	165	160	161	176	173	175	175	163	170	199	171	190
7	160	160	160	180	176	177	167	158	159	198	183	195
8	160	159	159	180	175	176	158	153	156	213	198	206
9	159	158	158	175	172	172	167	155	157	224	213	219
10	162	158	161	175	172	174	193	167	183	224	219	222
11	162	161	161	175	171	172	204	193	199	219	219	219
12	164	161	163	174	171	172	203	199	202	219	215	218
13	167	156	162	174	174	174	202	201	201	218	215	216
14	171	163	165	178	173	176	201	199	200	217	210	214
15	170	166	168	173	170	173	199	194	198	214	205	210
16	166	161	165	173	170	170	194	188	192	209	205	206
17	---	---	---	173	169	172	192	188	191	208	200	204
18	---	---	---	172	172	172	191	190	190	208	208	208
19	170	170	170	172	172	172	190	185	188	208	207	207
20	174	167	169	172	171	172	189	184	187	207	202	205
21	171	167	167	175	171	173	193	186	189	206	202	204
22	176	167	170	179	175	177	198	189	194	210	206	208
23	176	172	175	175	175	175	202	194	199	219	208	212
24	177	173	174	176	172	174	203	194	198	221	218	219
25	177	173	176	176	176	176	209	202	206	224	219	221
26	178	177	178	176	176	176	209	205	207	225	221	223
27	178	171	175	178	168	175	206	201	204	225	222	224
28	175	171	172	180	165	176	207	198	203	225	221	224
29	172	167	171	185	172	175	205	199	202	223	220	222
30	172	168	170	188	173	179	204	204	204	226	220	223
31	173	169	171	---	---	---	204	204	204	225	218	221
MONTH	178	156	167	188	165	174	209	153	190	226	171	213

CUMBERLAND RIVER BASIN

03417500 CUMBERLAND RIVER AT CELINA, TN--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), 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	218	211	213	208	207	207	199	198	199	197	192	193
2	215	208	209	207	201	205	198	198	198	204	192	199
3	208	200	206	201	196	200	198	198	198	203	194	199
4	204	200	202	199	195	196	198	193	197	198	194	195
5	202	198	200	202	194	199	193	193	193	201	197	199
6	202	196	199	205	200	202	193	192	193	204	200	201
7	203	197	200	204	175	200	192	192	192	203	199	202
8	205	201	204	190	174	182	196	192	192	206	201	202
9	208	203	206	204	181	192	195	191	193	205	201	205
10	208	201	203	207	203	205	195	195	195	204	176	186
11	208	202	203	207	205	206	195	195	195	187	171	178
12	210	204	209	205	204	204	199	194	196	192	186	188
13	217	192	210	204	203	203	198	194	194	189	179	183
14	217	208	212	203	202	202	194	190	194	182	177	180
15	212	188	196	203	202	203	197	193	195	189	178	183
16	203	195	198	204	199	202	197	193	194	---	---	---
17	223	203	214	204	200	201	197	192	194	---	---	---
18	223	219	222	201	196	199	196	188	192	---	---	---
19	226	222	223	201	197	198	192	188	190	---	---	---
20	225	222	222	198	197	198	192	187	189	---	---	---
21	222	222	222	199	195	198	195	187	191	188	161	172
22	222	221	221	199	195	199	200	188	193	182	161	169
23	221	221	221	200	196	197	202	193	195	184	177	180
24	221	216	218	197	196	197	203	198	199	177	169	172
25	216	213	214	197	193	197	203	196	200	172	164	167
26	213	211	212	202	197	200	201	196	200	167	159	163
27	214	209	210	203	202	202	202	196	198	166	159	162
28	213	208	209	---	---	---	196	195	196	170	155	161
29	---	---	---	204	200	203	195	191	192	192	168	181
30	---	---	---	203	199	200	194	190	192	193	185	189
31	---	---	---	199	199	199	---	---	---	---	---	---
MONTH	226	188	210	208	174	200	203	187	195	206	155	184
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	181	177	178	207	191	200	179	174	177
2	---	---	---	181	177	179	195	190	194	178	173	176
3	---	---	---	181	177	181	198	194	196	177	173	176
4	---	---	---	181	177	180	197	189	193	176	171	176
5	209	187	195	180	176	178	189	184	188	---	---	---
6	209	192	201	201	180	186	184	180	182	---	---	---
7	192	183	186	212	200	207	180	175	178	---	---	---
8	184	177	181	213	202	207	183	179	181	---	---	---
9	180	176	179	206	194	200	190	182	186	---	---	---
10	180	175	178	195	180	184	194	189	192	---	---	---
11	183	175	180	184	179	181	189	181	185	---	---	---
12	191	183	187	179	174	178	184	180	182	---	---	---
13	195	191	193	193	176	178	184	175	181	---	---	---
14	195	186	189	184	176	180	179	175	178	---	---	---
15	186	178	180	186	179	181	178	174	178	---	---	---
16	182	178	180	189	182	185	178	177	178	---	---	---
17	182	174	178	189	181	187	181	176	177	---	---	---
18	178	173	176	207	184	190	182	175	179	---	---	---
19	177	173	176	215	207	210	192	182	186	---	---	---
20	181	177	178	215	201	209	194	191	192	---	---	---
21	181	177	177	205	196	202	198	192	194	---	---	---
22	181	176	177	203	194	199	196	186	190	188	184	184
23	180	176	176	202	189	197	186	180	182	184	180	183
24	180	176	178	189	180	183	180	174	177	183	179	182
25	183	179	180	184	179	181	178	176	178	183	179	182
26	183	179	181	206	179	183	180	175	179	183	183	183
27	183	183	183	233	190	208	182	177	178	183	183	183
28	183	178	180	218	181	195	181	171	176	187	179	182
29	178	178	178	228	189	219	178	173	174	182	178	182
30	178	178	178	213	208	210	177	171	173	182	178	181
31	---	---	---	216	207	213	180	169	174	---	---	---
MONTH	209	173	182	233	174	192	207	169	183	188	171	181

CUMBERLAND RIVER BASIN

03417500 CUMBERLAND RIVER AT CELINA, TN--Continued

PH (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	7.2	7.2	7.2	7.1	7.2	7.2	---	---	7.7	7.3	7.4	7.2
2	7.3	7.2	7.1	7.0	7.3	7.2	---	---	7.9	7.6	7.4	7.3
3	7.3	7.3	7.3	7.0	7.3	7.2	---	---	7.9	7.8	7.6	7.3
4	7.3	7.3	7.3	7.2	7.3	7.3	---	---	7.9	7.7	7.5	7.2
5	7.3	7.3	7.4	7.3	7.5	7.3	8.0	7.7	7.9	7.8	7.3	7.1
6	7.3	7.3	7.4	7.4	7.4	7.4	8.0	7.5	7.9	7.6	7.2	6.9
7	7.3	7.3	7.4	7.3	7.4	7.4	7.5	7.5	7.8	7.5	7.2	6.9
8	7.3	7.3	7.3	7.2	7.4	7.4	7.5	7.4	7.8	7.7	7.1	6.8
9	7.3	7.3	7.3	7.2	7.4	7.2	7.5	7.3	7.8	7.7	7.2	7.0
10	7.3	7.3	7.3	7.2	7.3	7.2	7.6	7.3	7.7	7.6	7.3	7.0
11	7.3	7.3	7.3	7.2	7.2	7.2	7.7	7.5	7.6	7.5	7.2	7.0
12	7.3	7.3	7.2	7.2	7.2	7.1	7.7	7.6	7.8	7.5	7.2	7.2
13	7.3	7.3	7.3	7.2	7.2	7.1	7.7	7.5	7.7	7.5	7.3	7.1
14	7.3	7.3	7.3	7.2	7.3	7.2	7.6	7.5	7.8	7.5	7.7	7.2
15	7.4	7.3	7.3	7.3	7.3	7.2	7.6	7.5	7.6	7.4	7.5	7.4
16	7.4	7.4	7.3	7.3	7.3	7.2	7.6	7.5	7.4	7.3	7.6	7.5
17	---	---	7.3	7.2	7.2	7.2	7.5	7.4	7.4	7.2	7.7	7.6
18	---	---	7.2	7.1	7.2	7.1	7.5	7.4	7.5	7.3	7.7	7.6
19	7.5	7.3	7.2	7.1	7.4	7.1	7.5	7.3	7.5	7.4	7.8	7.6
20	7.3	7.3	7.2	7.2	7.4	7.0	7.4	7.2	7.5	7.2	7.9	7.6
21	7.3	7.3	7.2	7.2	7.4	7.2	7.3	7.2	7.3	7.1	7.7	7.6
22	7.4	7.3	7.4	7.1	7.3	7.2	7.5	7.2	7.3	7.2	7.8	7.5
23	7.4	7.3	7.4	7.3	7.4	7.3	7.6	7.2	7.3	7.2	7.9	7.7
24	7.3	7.3	7.4	7.3	7.5	7.3	7.6	7.3	7.4	7.2	7.9	7.8
25	7.3	7.2	7.4	7.4	7.4	7.3	7.8	7.5	7.7	7.3	7.8	7.7
26	7.3	7.2	7.4	7.4	7.4	7.3	7.6	7.5	7.8	6.9	7.8	7.7
27	7.2	7.2	7.5	7.4	7.4	7.2	7.6	7.4	7.7	7.2	7.8	7.7
28	7.2	7.1	7.5	7.3	7.4	7.2	7.7	7.1	7.6	7.3	---	---
29	7.1	7.1	7.3	7.2	7.3	7.2	7.2	7.1	---	---	7.7	7.6
30	7.2	7.1	7.2	7.2	7.3	7.2	7.6	7.1	---	---	7.7	7.6
31	7.2	7.2	---	---	7.3	7.2	7.8	7.0	---	---	7.7	7.6
MONTH	7.5	7.1	7.5	7.0	7.5	7.0	8.0	7.0	7.9	6.9	7.9	6.8
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.8	7.6	7.8	7.5	7.3	7.1	7.3	6.9	7.5	6.9	7.1	7.0
2	7.8	7.6	7.7	7.4	7.2	7.1	7.3	6.9	7.3	6.8	7.2	7.1
3	7.8	7.6	7.7	7.3	7.1	7.1	7.3	6.9	7.4	6.9	7.3	7.2
4	7.7	7.5	7.7	7.3	7.2	7.0	7.3	7.0	7.4	7.2	7.3	7.3
5	7.6	7.4	7.7	7.3	7.6	7.2	7.3	7.0	7.5	7.2	---	---
6	7.5	7.4	7.6	7.3	7.6	7.2	7.5	7.1	7.5	7.3	---	---
7	7.5	7.4	7.6	7.2	7.2	7.0	7.5	7.2	7.4	7.3	---	---
8	7.4	7.4	7.6	7.3	7.3	7.0	7.5	7.3	7.5	7.3	7.2	7.1
9	7.4	7.2	7.6	7.5	7.2	7.1	7.4	7.1	7.5	7.3	7.1	7.0
10	7.4	7.2	7.6	7.5	7.3	7.0	7.4	7.2	7.5	7.4	7.1	6.9
11	7.5	7.2	7.6	7.5	7.3	7.2	7.8	7.3	7.5	7.3	7.0	6.8
12	7.5	7.1	7.6	7.5	7.5	7.3	7.8	7.4	7.4	7.0	7.0	6.8
13	7.2	7.1	7.6	7.4	7.5	7.4	7.5	7.3	7.4	7.2	7.0	6.9
14	7.1	7.1	7.8	7.3	7.6	7.4	7.4	6.9	7.4	7.0	7.0	6.8
15	7.1	7.1	7.8	7.4	7.7	7.4	---	---	7.4	7.0	6.8	6.7
16	7.2	7.1	7.8	7.7	7.8	7.5	---	---	7.4	7.2	6.8	6.6
17	7.2	7.1	7.9	7.7	7.8	7.6	---	---	7.7	7.2	6.7	6.5
18	7.3	7.1	7.8	6.5	7.9	7.2	---	---	8.0	7.6	6.7	6.6
19	7.3	7.1	7.1	6.9	8.0	7.3	7.2	6.9	8.0	7.3	7.1	6.6
20	7.5	7.2	7.1	7.0	7.5	7.3	7.4	6.7	7.7	7.4	---	---
21	7.6	7.2	7.0	7.0	7.5	6.8	7.6	6.7	8.0	7.7	---	---
22	7.7	7.6	7.1	7.0	7.3	6.8	7.7	6.9	8.1	7.9	7.0	7.0
23	7.7	7.5	7.1	7.0	7.3	6.8	7.3	7.1	8.1	8.0	7.1	6.9
24	7.7	7.1	7.2	6.9	7.4	7.0	7.9	7.3	8.1	8.0	7.1	7.0
25	7.5	7.1	7.2	7.0	7.5	7.2	7.9	7.3	8.0	8.0	7.1	7.0
26	7.5	7.3	7.2	7.0	7.7	7.5	8.0	7.7	8.0	7.9	7.1	6.9
27	7.8	7.4	7.1	6.6	7.7	7.3	8.0	7.7	7.9	7.7	7.0	6.9
28	7.8	7.5	7.1	6.9	7.4	7.3	7.8	7.6	7.7	7.6	7.0	6.9
29	7.5	7.4	7.0	6.8	7.3	7.1	7.7	7.5	7.6	7.3	7.0	6.8
30	7.7	7.4	7.3	7.0	7.3	7.1	7.5	6.9	7.3	7.2	7.0	6.9
31	---	---	7.2	7.0	---	---	7.4	6.9	7.2	7.1	---	---
MONTH	7.8	7.1	7.9	6.5	8.0	6.8	8.0	6.7	8.1	6.8	7.3	6.5

CUMBERLAND RIVER BASIN

03417500 CUMBERLAND RIVER AT CELINA, TN--Continued

TEMPERATURE, WATER (DEG. C), 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	15.3	14.7	15.1	14.6	13.8	14.4	11.9	11.5	11.7	---	---	---
2	15.7	15.1	15.4	13.8	13.4	13.6	11.9	11.5	11.8	---	---	---
3	15.7	14.8	15.5	13.4	12.9	13.1	12.4	11.9	12.1	---	---	---
4	16.4	15.4	15.9	14.1	12.7	13.2	12.8	12.4	12.7	---	---	---
5	16.0	15.4	15.7	15.1	14.1	14.5	13.0	12.8	12.9	7.7	7.2	7.5
6	16.0	15.2	15.6	15.1	14.7	15.0	13.0	12.6	12.8	7.5	5.8	7.1
7	16.0	15.4	15.7	14.7	14.3	14.6	13.2	12.8	13.1	7.5	5.8	6.5
8	16.2	15.6	15.9	14.5	13.7	14.2	12.8	12.4	12.6	7.2	5.8	6.6
9	16.2	15.8	16.0	15.3	13.3	14.4	12.4	12.2	12.4	7.7	7.2	7.5
10	16.0	15.4	15.8	15.3	14.7	15.1	12.2	11.7	12.0	7.7	7.2	7.5
11	15.4	14.8	15.1	14.7	13.5	14.1	11.7	9.9	10.9	8.9	7.7	8.3
12	15.2	14.3	14.6	14.3	13.3	13.8	9.9	9.3	9.6	10.1	8.9	9.5
13	14.9	14.1	14.5	15.0	14.0	14.5	10.5	8.9	9.4	10.9	9.9	10.3
14	15.1	14.9	15.0	14.8	14.2	14.5	10.9	10.5	10.7	11.4	10.9	11.2
15	15.7	15.1	15.4	14.4	14.0	14.3	11.1	10.7	10.8	11.2	10.4	10.8
16	16.5	15.7	15.9	14.6	14.2	14.4	11.3	11.1	11.1	10.4	9.4	10.0
17	---	---	---	14.4	14.0	14.3	11.9	11.3	11.7	9.4	8.8	9.1
18	---	---	---	14.0	13.8	13.9	11.5	10.7	11.1	9.4	9.0	9.2
19	16.3	15.1	16.1	14.2	13.8	14.0	10.7	9.7	10.3	9.6	9.4	9.4
20	16.1	15.1	15.8	14.0	13.6	13.9	9.9	9.1	9.5	9.4	8.8	9.0
21	15.5	14.7	15.1	14.6	14.0	14.3	10.7	9.9	10.4	8.8	7.8	8.2
22	15.5	15.3	15.3	14.4	13.2	13.8	11.3	10.7	11.0	7.8	7.3	7.5
23	15.9	15.5	15.6	13.2	11.7	12.7	11.4	11.1	11.2	7.3	6.7	6.9
24	15.5	13.5	15.0	11.7	10.7	11.1	11.2	10.6	10.9	6.7	5.9	6.1
25	15.5	14.7	15.1	11.5	11.1	11.2	10.6	10.0	10.5	7.2	6.1	6.7
26	14.9	13.8	14.4	11.9	11.3	11.5	10.0	9.6	9.8	7.3	6.8	7.1
27	13.8	13.0	13.3	12.6	11.7	11.9	10.2	9.2	9.6	7.3	7.0	7.2
28	13.0	12.6	12.7	12.8	12.1	12.5	10.4	10.2	10.3	7.9	7.2	7.6
29	13.2	12.3	12.9	12.1	11.1	11.5	10.6	10.4	10.4	7.9	7.2	7.6
30	14.0	13.2	13.5	11.7	11.1	11.3	10.4	10.0	10.2	7.2	6.5	6.9
31	14.6	14.0	14.3	---	---	---	10.3	10.0	10.1	6.5	5.5	5.8
MONTH	16.5	12.3	15.0	15.3	10.7	13.5	13.2	8.9	11.1	11.4	5.5	8.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.1	5.3	6.2	7.1	6.7	6.9	8.6	7.8	8.2	10.5	10.3	10.4
2	7.8	6.9	7.4	6.7	5.9	6.1	9.4	7.8	8.6	11.1	10.5	10.9
3	7.8	7.6	7.7	6.3	5.9	6.1	10.1	8.4	9.3	12.2	11.1	11.6
4	7.6	7.1	7.3	7.1	6.3	6.6	10.5	9.5	10.0	12.3	11.9	12.1
5	7.1	5.9	6.5	7.8	6.9	7.3	9.7	8.7	9.1	12.7	11.2	12.2
6	5.9	4.9	5.2	9.2	7.8	8.5	8.7	8.1	8.3	13.5	12.5	12.9
7	4.9	4.1	4.4	10.5	9.2	9.8	10.1	7.7	9.0	14.3	13.1	13.8
8	4.1	2.9	3.5	9.5	7.5	8.5	10.7	9.5	10.2	16.3	13.5	14.7
9	3.1	2.5	2.7	7.5	6.6	6.8	11.3	9.9	10.5	18.4	15.1	17.1
10	5.2	3.1	3.9	7.0	6.2	6.6	11.7	10.1	10.8	18.2	14.1	15.5
11	5.8	5.2	5.6	7.5	6.6	7.1	13.0	11.3	12.2	14.9	13.3	14.3
12	5.4	4.2	4.9	7.9	7.2	7.6	13.4	12.6	13.0	13.3	12.3	12.7
13	5.8	3.8	4.2	8.3	7.4	7.8	13.4	11.1	12.5	12.3	11.4	11.6
14	5.3	3.8	4.4	8.4	7.5	8.1	12.2	10.5	11.7	12.9	11.2	12.0
15	6.9	5.3	6.2	8.4	7.8	8.1	12.3	11.1	12.1	16.3	12.5	14.3
16	6.9	6.1	6.5	8.2	7.8	8.0	12.3	10.6	11.8	16.7	9.6	14.3
17	7.0	6.8	6.8	8.2	7.6	7.9	12.9	10.0	11.8	9.8	9.2	9.5
18	7.0	6.4	6.7	8.0	7.4	7.7	12.9	12.5	12.9	11.0	9.6	10.0
19	7.3	6.8	7.0	7.8	7.3	7.6	12.5	10.2	10.9	12.3	11.0	11.8
20	7.2	6.8	7.0	8.0	7.4	7.9	11.0	10.4	10.7	11.8	10.2	10.6
21	7.0	6.4	6.6	8.0	7.4	7.8	10.8	10.2	10.6	10.4	10.0	10.2
22	6.5	5.9	6.2	8.2	7.6	7.9	12.9	10.8	12.0	10.6	9.8	10.1
23	6.7	6.1	6.4	8.4	7.8	8.2	12.7	10.0	11.1	11.0	10.2	10.5
24	6.8	6.1	6.4	8.4	7.8	8.2	10.0	9.4	9.7	11.0	10.0	10.5
25	6.5	6.1	6.3	8.2	7.4	7.9	10.4	9.6	9.9	11.2	10.4	10.7
26	7.2	6.1	6.7	9.8	8.2	9.1	10.0	9.0	9.4	11.2	10.4	10.7
27	7.3	6.9	7.1	---	---	---	9.6	8.9	9.3	11.4	10.6	10.8
28	7.4	7.1	7.3	---	---	---	9.1	8.7	8.9	12.0	10.6	11.2
29	---	---	---	10.6	8.6	9.3	9.5	8.5	9.0	12.1	11.4	11.7
30	---	---	---	9.0	8.2	8.6	10.7	9.5	10.0	12.0	11.6	11.8
31	---	---	---	8.6	8.0	8.4	---	---	---	12.0	11.6	11.7
MONTH	7.8	2.5	6.0	10.6	5.9	7.8	13.4	7.7	10.4	18.4	9.2	12.0

CUMBERLAND RIVER BASIN

03417500 CUMBERLAND RIVER AT CELINA, TN--Continued

TEMPERATURE, WATER (DEG. C), 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	12.1	11.1	11.4	14.3	13.7	14.1	17.1	14.6	16.3	---	---	---
2	12.6	11.7	12.1	14.9	14.1	14.5	15.3	14.0	14.5	---	---	---
3	13.7	12.5	13.3	16.3	13.9	15.0	15.7	15.3	15.5	---	---	---
4	13.8	12.5	13.2	16.5	15.9	16.2	15.7	15.2	15.4	---	---	---
5	14.2	13.2	13.6	16.3	14.7	15.1	15.4	14.2	14.8	---	---	---
6	15.2	13.5	14.4	15.6	14.3	15.0	15.1	14.4	14.7	---	---	---
7	13.9	12.7	13.4	15.6	14.3	15.0	16.8	13.7	15.5	17.4	---	---
8	---	---	---	15.4	14.3	14.7	17.7	16.3	17.2	17.4	16.5	16.8
9	14.2	12.6	13.4	14.7	13.8	14.2	17.7	15.8	16.5	16.7	16.1	16.5
10	14.2	13.0	13.6	16.3	13.5	14.7	16.1	15.7	15.9	16.5	16.1	16.2
11	14.2	12.8	13.4	17.6	14.9	16.9	16.2	15.7	15.9	16.5	14.7	16.0
12	14.6	14.0	14.3	17.6	14.7	15.8	16.0	15.6	15.8	17.4	16.3	16.8
13	15.8	13.8	14.6	14.9	13.7	14.3	16.4	15.8	16.2	17.4	16.9	17.1
14	16.2	14.4	15.6	14.5	13.5	14.1	17.7	13.9	16.1	17.1	16.3	16.7
15	14.4	14.0	14.2	14.1	13.3	13.8	18.3	16.0	17.5	16.3	15.7	16.0
16	14.6	14.2	14.3	14.3	13.3	13.8	16.0	14.8	15.3	16.9	16.1	16.3
17	14.6	14.4	14.5	16.3	12.5	14.7	15.7	14.9	15.3	16.9	16.3	16.4
18	14.6	14.4	14.4	17.0	15.9	16.5	15.5	14.9	15.2	16.5	16.1	16.3
19	14.8	14.2	14.5	15.9	13.7	14.5	15.9	14.7	15.3	17.1	15.9	16.4
20	15.9	14.2	14.8	15.0	14.6	14.8	16.4	14.9	15.5	---	---	---
21	15.5	13.9	14.6	14.8	13.8	14.3	16.6	16.2	16.4	---	---	---
22	15.1	14.3	14.8	15.0	14.4	14.6	16.4	16.2	16.2	17.8	16.1	17.0
23	15.1	14.3	14.6	14.9	14.3	14.6	16.4	16.0	16.2	16.1	15.7	15.8
24	15.1	14.1	14.5	15.6	14.9	15.1	17.2	16.2	16.5	15.9	15.4	15.5
25	15.1	14.3	14.7	16.5	14.9	15.8	17.2	16.4	16.6	16.4	15.2	15.7
26	15.9	13.9	14.9	15.2	13.4	14.1	16.8	16.2	16.4	16.8	16.4	16.6
27	17.1	15.5	16.4	14.3	13.7	14.0	16.8	16.2	16.4	16.4	15.8	16.1
28	16.9	15.1	15.6	14.4	13.1	13.8	16.3	15.9	16.1	16.8	15.8	16.2
29	15.1	14.3	14.7	14.6	13.6	14.2	16.9	16.1	16.6	17.3	16.4	16.8
30	14.5	13.9	14.3	15.1	13.8	14.5	17.1	16.5	16.7	17.5	16.6	17.1
31	---	---	---	16.8	12.7	15.0	---	---	---	---	---	---
MONTH	17.1	11.1	14.2	17.6	12.5	14.8	18.3	13.7	15.9	17.8	14.7	16.4

OXYGEN, DISSOLVED (DO), 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	9.8	9.5	9.6	9.6	8.7	9.1	8.3	8.1	8.2	---	---	---
2	9.7	9.3	9.5	9.4	9.1	9.3	8.3	8.1	8.2	---	---	---
3	9.6	9.0	9.3	9.4	8.8	9.1	8.1	7.8	8.0	---	---	---
4	10.2	9.1	9.7	9.1	8.6	8.8	8.1	7.7	7.9	---	---	---
5	10.5	10.0	10.2	9.3	8.8	9.1	7.9	7.6	7.7	9.2	8.7	8.9
6	10.5	10.0	10.2	9.1	8.7	8.9	7.9	7.5	7.7	9.7	8.8	9.2
7	10.4	10.0	10.2	9.4	8.8	9.1	7.5	7.4	7.5	9.4	9.0	9.3
8	10.3	9.8	10.0	9.8	9.4	9.7	7.5	7.4	7.4	9.4	9.0	9.2
9	10.0	9.4	9.6	9.6	8.9	9.1	7.5	7.1	7.3	9.3	9.0	9.1
10	9.9	9.6	9.8	9.3	8.9	9.1	7.9	7.1	7.6	9.7	9.2	9.5
11	10.3	9.6	10.0	9.4	9.0	9.3	8.0	7.6	7.8	9.7	9.1	9.4
12	10.3	9.9	10.1	9.6	9.1	9.4	8.2	8.0	8.1	9.3	8.9	9.2
13	10.3	9.5	9.8	10.1	9.5	9.8	8.5	7.6	8.2	9.3	9.0	9.1
14	9.8	9.4	9.5	10.4	9.7	9.9	7.8	7.6	7.7	9.1	8.9	9.0
15	9.4	9.1	9.2	10.4	9.9	10.2	7.7	7.5	7.6	9.3	9.1	9.2
16	9.5	9.1	9.2	9.9	9.5	9.6	7.5	7.4	7.5	9.5	9.2	9.4
17	9.7	8.9	9.2	9.6	9.4	9.5	7.4	7.1	7.2	9.8	9.4	9.7
18	---	---	---	9.8	9.5	9.7	7.4	7.1	7.3	9.6	9.4	9.5
19	9.5	9.0	9.2	10.2	9.8	10.1	8.0	7.4	7.7	9.7	9.6	9.7
20	9.1	8.2	8.9	10.4	10.1	10.2	8.1	7.3	7.8	9.9	9.7	9.8
21	8.2	7.4	7.7	10.9	10.4	10.5	7.7	7.2	7.4	10.0	9.8	9.9
22	8.3	7.8	8.0	11.1	10.7	10.9	7.5	7.4	7.4	10.3	9.9	10.0
23	8.9	8.1	8.4	11.0	10.6	10.8	7.4	7.2	7.3	10.7	10.3	10.4
24	9.2	8.2	8.7	10.7	10.4	10.5	7.5	7.3	7.4	11.1	10.6	10.8
25	9.8	8.6	9.2	10.6	10.3	10.4	7.7	7.2	7.4	10.9	10.5	10.6
26	9.9	9.7	9.8	10.3	9.7	10.1	8.3	7.6	7.9	10.8	10.5	10.6
27	10.1	9.8	10.0	9.9	9.4	9.7	8.4	7.6	8.1	10.6	10.3	10.5
28	10.2	9.9	10.1	9.7	8.6	9.2	7.8	7.5	7.7	10.6	10.3	10.4
29	10.1	9.8	10.0	9.1	8.4	8.9	7.9	7.6	7.8	10.5	10.2	10.3
30	9.8	9.0	9.4	9.1	8.1	8.5	8.0	7.7	7.8	10.8	10.3	10.4
31	9.3	8.9	9.1	---	---	---	8.3	8.0	8.2	11.1	10.6	10.8
MONTH	10.5	7.4	9.5	11.1	8.1	9.6	8.5	7.1	7.7	11.1	8.7	9.8

CUMBERLAND RIVER BASIN

03417500 CUMBERLAND RIVER AT CELINA, TN--Continued

OXYGEN, DISSOLVED (DO), 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	10.8	10.5	10.7	11.4	11.2	11.3	11.1	10.8	11.0	11.0	10.5	10.6
2	10.8	10.6	10.7	11.6	11.3	11.5	11.4	10.9	11.2	10.6	10.0	10.3
3	10.7	10.5	10.7	11.7	11.6	11.6	11.6	11.0	11.3	10.0	9.7	9.7
4	11.0	10.7	10.9	11.7	11.5	11.6	11.5	11.0	11.3	9.7	9.4	9.5
5	11.8	11.0	11.4	11.7	11.4	11.6	11.4	10.9	11.2	10.2	8.8	9.6
6	12.2	11.7	12.1	11.6	11.3	11.4	11.4	11.1	11.3	10.3	9.1	9.7
7	12.5	12.2	12.3	11.3	10.9	11.1	11.6	11.2	11.4	10.8	9.2	10.4
8	12.8	12.4	12.5	11.3	10.8	11.0	11.5	11.1	11.3	11.0	10.2	10.7
9	12.8	12.5	12.7	11.5	11.3	11.4	11.5	11.2	11.4	10.9	9.3	10.4
10	12.7	11.7	12.3	11.5	11.4	11.5	11.5	11.2	11.3	9.3	8.6	8.9
11	11.7	11.4	11.6	11.6	11.5	11.5	11.7	11.2	11.5	9.0	8.2	8.6
12	12.0	11.7	11.8	11.6	11.5	11.6	11.2	11.0	11.1	9.5	8.8	9.2
13	12.5	11.5	12.2	11.6	11.6	11.6	11.4	11.2	11.3	9.7	9.4	9.5
14	12.6	11.9	12.4	11.6	11.4	11.5	11.8	11.3	11.6	9.5	8.8	9.2
15	11.9	11.4	11.5	11.4	11.2	11.3	11.9	11.7	11.8	8.8	7.8	8.4
16	11.5	11.2	11.3	11.3	11.1	11.2	12.0	11.7	11.8	9.2	7.6	8.3
17	11.2	11.2	11.2	11.2	11.0	11.1	11.9	11.6	11.8	9.5	9.1	9.2
18	11.2	11.2	11.2	11.1	10.9	11.1	11.8	11.3	11.4	9.2	9.0	9.1
19	11.3	11.2	11.2	11.0	10.9	11.0	11.6	11.2	11.4	9.0	8.2	8.6
20	11.3	11.3	11.3	10.9	10.8	10.9	11.6	11.4	11.5	9.2	8.7	9.1
21	11.3	11.3	11.3	10.8	10.7	10.8	11.5	11.0	11.3	9.5	9.1	9.3
22	11.3	11.3	11.3	10.8	10.7	10.7	11.0	10.3	10.5	9.6	8.9	9.3
23	11.3	11.3	11.3	10.7	10.6	10.6	11.2	10.5	10.9	9.9	9.1	9.3
24	11.3	10.9	11.1	10.6	10.5	10.6	11.4	11.0	11.2	9.4	9.2	9.3
25	11.1	11.0	11.1	10.8	10.5	10.7	11.4	10.9	11.1	9.4	9.2	9.3
26	11.2	11.1	11.2	10.6	10.5	10.6	11.7	11.2	11.5	9.4	9.2	9.3
27	11.4	11.2	11.2	---	---	---	11.7	11.2	11.4	9.4	9.1	9.2
28	11.2	11.2	11.2	---	---	---	11.4	11.1	11.3	9.4	9.0	9.1
29	---	---	---	10.7	10.3	10.5	11.4	11.3	11.4	9.1	8.9	9.0
30	---	---	---	10.9	10.6	10.8	11.3	11.0	11.1	9.7	8.9	9.3
31	---	---	---	11.0	10.7	10.9	---	---	---	9.3	9.0	9.2
MONTH	12.8	10.5	11.5	11.7	10.3	11.1	12.0	10.3	11.3	11.0	7.6	9.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.4	9.1	9.2	9.2	8.6	8.8	8.7	8.5	8.6	7.8	7.6	7.7
2	9.3	9.0	9.2	8.8	8.5	8.7	8.5	8.0	8.3	7.8	7.5	7.7
3	9.4	9.0	9.2	8.9	8.6	8.7	8.1	7.7	7.9	7.9	7.5	7.7
4	9.5	9.4	9.5	8.8	8.6	8.7	7.8	7.6	7.7	7.9	7.5	7.7
5	9.5	9.0	9.3	8.9	8.5	8.7	8.0	7.6	7.7	---	---	---
6	9.5	9.1	9.2	8.8	8.3	8.5	7.9	7.6	7.7	---	---	---
7	10.1	8.9	9.4	8.6	8.2	8.4	7.7	7.3	7.5	---	---	---
8	11.2	10.0	10.5	8.5	8.3	8.5	7.6	7.3	7.4	8.1	7.3	7.7
9	11.2	10.5	10.6	8.7	8.5	8.7	7.5	7.3	7.4	7.9	7.3	7.5
10	10.9	10.7	10.7	8.9	8.1	8.5	7.6	7.4	7.5	7.8	7.1	7.5
11	11.1	10.7	10.9	8.1	7.4	7.6	7.6	7.4	7.5	7.8	7.1	7.6
12	11.4	11.1	11.3	7.8	7.4	7.6	7.7	7.6	7.6	8.2	7.2	7.7
13	11.4	11.0	11.3	7.9	7.7	7.8	7.8	7.6	7.7	8.1	7.4	7.7
14	11.6	11.0	11.3	8.2	7.8	8.1	7.8	7.5	7.6	8.3	7.5	7.8
15	11.4	10.8	11.2	8.5	8.1	8.3	7.9	7.4	7.7	7.8	7.5	7.6
16	11.5	10.9	11.1	9.1	8.4	8.7	7.9	7.5	7.8	8.1	7.4	7.8
17	11.2	10.9	11.1	9.1	8.8	8.9	9.0	7.8	8.3	8.2	7.6	7.9
18	11.3	11.0	11.1	9.3	8.3	8.7	8.7	8.3	8.5	8.5	7.8	8.1
19	11.0	10.7	10.9	8.7	8.5	8.6	8.6	8.1	8.3	8.4	7.9	8.1
20	10.9	9.8	10.4	9.0	8.7	8.9	8.5	7.9	8.2	---	---	---
21	10.0	9.4	9.8	9.0	8.8	8.9	8.5	8.1	8.4	---	---	---
22	9.6	9.3	9.5	8.9	8.8	8.9	8.7	8.2	8.5	8.2	7.7	7.9
23	10.1	9.3	9.5	9.3	8.8	9.0	8.7	8.3	8.5	8.5	8.0	8.2
24	10.0	9.3	9.6	9.0	8.7	8.9	8.7	8.2	8.5	8.5	8.1	8.3
25	9.4	9.1	9.2	8.8	8.0	8.5	8.6	8.2	8.4	8.8	8.2	8.4
26	9.2	9.0	9.1	8.7	8.0	8.4	8.5	8.0	8.3	8.7	8.2	8.4
27	9.6	8.5	8.8	8.8	8.3	8.6	8.4	7.9	8.1	8.7	8.1	8.4
28	8.9	8.7	8.7	9.1	8.7	8.9	8.3	7.8	8.0	8.7	8.1	8.4
29	8.9	8.6	8.8	8.8	8.7	8.8	8.1	7.6	7.9	8.7	8.2	8.4
30	8.9	8.6	8.8	8.8	8.7	8.7	8.1	7.6	7.9	8.7	8.4	8.5
31	---	---	---	8.9	8.6	8.8	8.0	7.5	7.9	---	---	---
MONTH	11.6	8.5	10.0	9.3	7.4	8.6	9.0	7.3	8.0	8.8	7.1	7.9

CUMBERLAND RIVER BASIN

03418420 CUMBERLAND RIVER BELOW CORDELL HULL DAM, TN

LOCATION.--Lat 36°17'12", long 85°56'27", Smith County, Hydrologic Unit 05130108, on right bank in powerhouse at Cordell Hull Dam, 2.7 mi north of Carthage, and at mile 313.5.

DRAINAGE AREA.--8,095 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to current year. Equivalent record prior to 1981 published in annual reports of Tennessee Valley Authority entitled "Operation of TVA Reservoirs".

GAGE.--Datum of gage is sea level.

REMARKS.--Flow regulated by Lake Cumberland (station 03413500) and Dale Hollow Lake (station 03416500) (see p. 122).

COOPERATION.--Records provided by U.S. Army Corps of Engineers.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum daily discharge, 116,000 ft³/s, Mar. 13, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 39,600 ft³/s, Mar. 9; minimum daily, 1,860 ft³/s, May 7, 8.

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

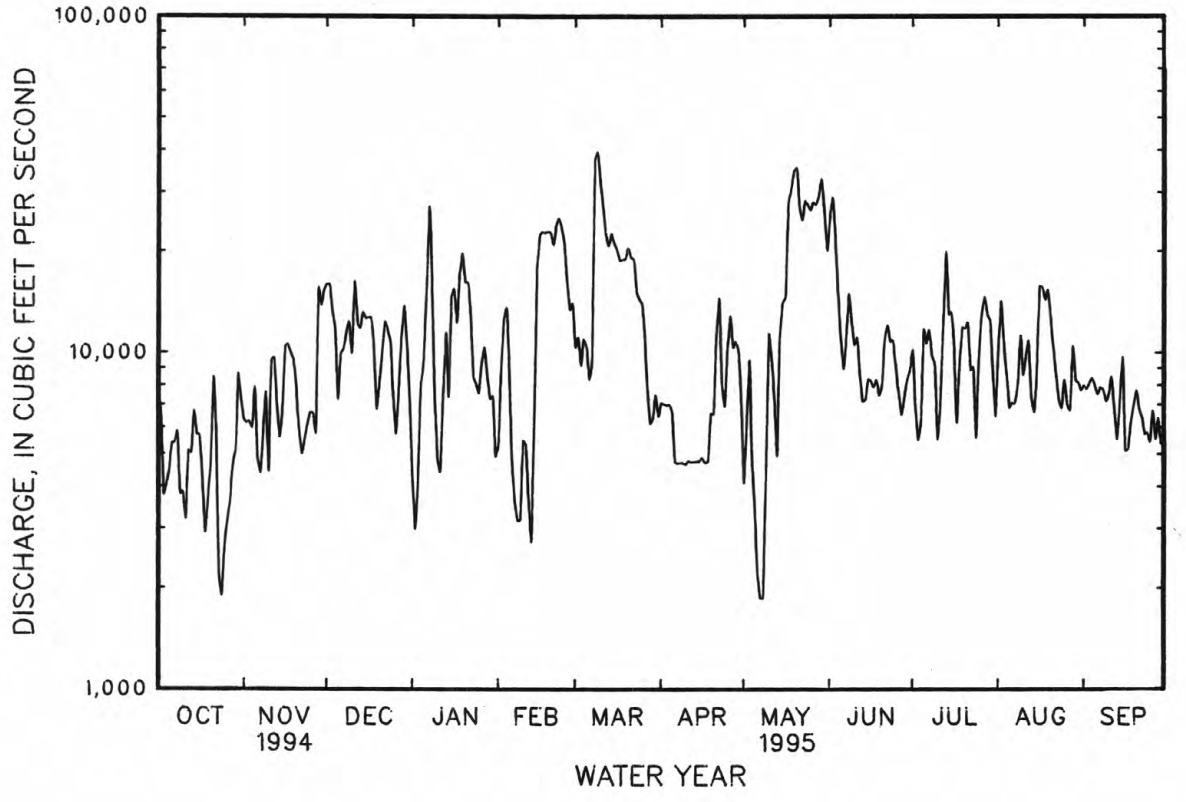
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7600	6280	16000	4320	5220	10300	7100	4080	25600	10200	10000	8000
2	6830	6180	16000	2970	8920	11100	7050	6120	29100	6890	14300	7770
3	3770	6250	13000	3980	12700	9120	6960	9540	21300	5470	10700	8120
4	4060	5950	11800	8230	13600	11000	7010	4800	14900	6050	8820	8420
5	4370	7930	7220	9150	8910	10500	6700	3440	11000	11800	6820	7900
6	5400	4880	9980	15000	4800	8270	4720	2180	8910	10600	7090	7490
7	5400	4370	10200	27300	3540	9160	4690	1860	10600	11700	7040	7880
8	5850	5590	11500	16800	3150	38100	4710	1860	15000	9750	7860	7780
9	3780	7660	12400	7450	3170	39600	4710	4150	12100	9330	11300	7140
10	3880	4410	9880	4800	5500	32000	4650	11400	10500	5500	8530	7420
11	3190	9510	16300	4390	5340	27200	4770	9450	11100	6830	9720	8510
12	5140	9700	12100	7340	3700	22100	4740	7610	8440	11600	10900	6810
13	5020	6900	11800	11500	2720	20700	4750	4900	7120	20000	7250	5500
14	6760	5570	13200	7340	5790	22600	4740	11700	7230	12900	6630	7090
15	5680	6660	12600	14800	18300	21100	4750	14100	8380	13200	8460	9750
16	5720	10500	12700	15500	22500	20300	4880	14500	8270	10900	15800	5090
17	4460	10600	12700	12200	22900	18700	4700	28100	7870	6150	15700	5140
18	2900	9950	10400	17200	22700	18900	4740	30400	8320	9110	14300	6280
19	3520	9520	6750	19800	22900	18900	6640	34800	7420	11900	15400	6900
20	4520	7900	8050	16100	22800	20500	6560	35600	7920	11800	12400	7770
21	8520	5720	9950	16200	20800	19200	11400	27000	11100	12300	10400	6750
22	6010	4970	12400	13100	24100	19000	14600	24700	12100	8830	8490	6400
23	2180	5520	11600	8420	25100	15100	7980	28400	10700	9070	7150	5700
24	1890	6100	10800	8080	23600	14400	6890	27600	10900	5550	6810	5790
25	2600	6660	7450	7550	21100	14000	10300	26400	9050	9570	8340	5400
26	3160	6620	5710	9380	16200	11400	12900	28100	7500	13000	6970	6750
27	3580	5730	7330	10400	13300	7870	10300	27500	6500	14700	6690	5510
28	4650	15700	11000	8700	14000	6120	10800	29300	7290	12900	10500	6430
29	5100	13800	13800	7240	---	6350	10300	33000	8340	12500	8240	5340
30	8700	15400	10500	7430	---	7500	7580	26100	8830	8610	8160	6040
31	7260	---	7330	4880	---	6440	---	20000	---	6430	7690	---
TOTAL	151500	232530	342450	327550	377360	517530	212620	538690	333390	315140	298460	206870
MEAN	4887	7751	11050	10570	13480	16690	7087	17380	11110	10170	9628	6896
MAX	8700	15700	16300	27300	25100	39600	14600	35600	29100	20000	15800	9750
MIN	1890	4370	5710	2970	2720	6120	4650	1860	6500	5470	6630	5090

03418420 CUMBERLAND RIVER BELOW CORDELL HULL DAM, TN--Continued

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

MEAN	6677	8275	14070	16520	16840	17730	14140	12240	12130	10180	9963	7964
MAX	18890	20780	23430	32860	37630	45270	43170	37590	24760	19250	15800	16180
(WY)	1990	1990	1987	1991	1994	1994	1994	1984	1983	1989	1982	1982
MIN	3156	1795	2269	2493	4466	3686	4830	3925	5446	6090	5945	4409
(WY)	1989	1981	1981	1981	1981	1981	1981	1985	1985	1986	1988	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1981 - 1995	
ANNUAL TOTAL	7002070		3854090			
ANNUAL MEAN	19180		10560		12210	
HIGHEST ANNUAL MEAN					19560	1994
LOWEST ANNUAL MEAN					6159	1988
HIGHEST DAILY MEAN	67500	Mar 28	39600	Mar 9	85200	May 8 1984
LOWEST DAILY MEAN	1890	Oct 24	1860	May 7	.00	Nov 2 1980
ANNUAL SEVEN-DAY MINIMUM	3310	Oct 23	3310	Oct 23	1290	Nov 22 1980
ANNUAL RUNOFF (CFSM)	2.37		1.30		1.51	
ANNUAL RUNOFF (INCHES)	32.18		17.71		20.49	
10 PERCENT EXCEEDS	42500		20600		25000	
50 PERCENT EXCEEDS	11600		8420		9130	
90 PERCENT EXCEEDS	5080		4710		3820	



CUMBERLAND RIVER BASIN

03418420 CUMBERLAND RIVER BELOW CORDELL HULL DAM, TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1980 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1980 to current year.
pH: October 1990 to current year.
WATER TEMPERATURE: October 1980 to current year.
DISSOLVED OXYGEN: October 1980 to current year.

INSTRUMENTATION.--Data collection platform and water-quality monitor.

REMARKS.--Flow regulated by Cordell Hull Dam and other reservoirs above station. Interruptions in the record were due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 290 microsiemens, Mar. 27, 1990; minimum, 140 microsiemens, Sept. 3, 1984.
pH: Maximum, 8.5 units, Mar. 9, 10, May 14, 16, 1992, June 16, 17, 1993; minimum 6.6 units, May 31, 1994.
WATER TEMPERATURE: Maximum, 23.7°C, July 13, 1995; minimum, 2.0°C, Jan. 12, 15-21, 1981.
DISSOLVED OXYGEN: Maximum, 15.5 mg/L, Mar. 4, 1983; minimum, 3.7 mg/L, Aug. 5, 1988.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 236 microsiemens, Jan. 23; minimum, 159 microsiemens, Feb. 20.
pH: Maximum, 8.3 units, Sept. 15; minimum, 6.8 units, May 22, 23.
WATER TEMPERATURE: Maximum, 23.7°C, July 13; minimum, 3.2°C, Feb. 12.
DISSOLVED OXYGEN: Maximum, 12.4 mg/L, Feb 7; minimum, 5.3 mg/L, Sept. 10, 15, 19.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), 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	171	167	167	172	168	168	180	179	180	187	183	183
2	171	167	167	172	168	171	183	179	182	186	182	183
3	171	166	168	183	172	177	187	183	186	186	182	184
4	170	166	166	186	178	181	187	187	187	186	181	182
5	169	165	166	182	178	182	187	186	187	185	181	183
6	169	165	166	182	182	182	186	186	186	185	185	185
7	169	164	165	186	182	182	190	186	186	188	184	186
8	168	164	164	186	182	182	186	186	186	192	188	188
9	168	164	165	182	182	182	186	185	186	203	191	194
10	168	163	163	182	178	182	185	185	185	203	195	196
11	167	163	163	182	178	179	189	185	187	203	195	197
12	166	162	162	178	178	178	193	189	192	198	190	192
13	166	162	163	178	174	178	197	192	193	190	186	188
14	166	161	161	182	174	176	196	192	193	190	185	186
15	165	161	161	178	174	175	196	192	194	189	185	186
16	171	160	162	178	173	174	196	196	196	197	185	189
17	165	160	160	177	173	175	200	196	198	208	196	202
18	169	161	162	177	173	174	199	195	196	212	208	210
19	165	161	162	173	173	173	199	195	196	215	211	212
20	165	161	163	173	173	173	196	195	196	211	207	209
21	165	161	162	181	173	176	195	195	195	207	203	204
22	165	161	161	181	173	177	195	191	193	203	198	202
23	169	161	163	176	176	176	191	190	190	236	202	215
24	175	160	163	176	176	176	190	186	190	232	215	221
25	168	160	163	176	175	176	190	189	190	219	200	213
26	164	160	162	175	175	175	189	189	189	214	203	210
27	168	164	165	175	172	173	189	189	189	213	202	208
28	164	164	164	175	172	173	189	184	186	212	205	208
29	164	164	164	180	172	175	184	184	184	208	200	205
30	168	164	164	180	176	180	184	183	184	207	203	206
31	172	164	167	---	---	---	183	183	183	221	202	213
MONTH	175	160	164	186	168	177	200	179	189	236	181	198

CUMBERLAND RIVER BASIN

03418420 CUMBERLAND RIVER BELOW CORDELL HULL DAM, TN--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), 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	208	204	207	196	192	193	196	192	196	210	205	206
2	204	203	203	199	194	195	196	192	195	208	204	205
3	203	195	199	202	196	199	196	192	196	208	203	204
4	198	193	194	203	202	202	196	196	196	207	202	204
5	193	189	192	205	203	204	196	196	196	209	201	202
6	203	165	188	207	202	204	196	196	196	205	201	201
7	187	169	181	215	203	207	200	196	196	205	201	201
8	187	169	178	205	201	202	200	196	196	205	200	201
9	189	172	182	208	193	203	199	195	196	200	196	200
10	188	185	186	193	168	177	195	195	195	200	200	200
11	193	187	189	172	165	168	195	195	195	204	200	200
12	193	184	188	194	172	187	195	195	195	200	200	200
13	212	187	195	204	194	199	195	195	195	200	200	200
14	210	194	203	208	201	206	195	195	195	200	200	200
15	201	190	194	208	208	208	195	195	195	203	199	202
16	191	183	186	211	207	208	195	195	195	207	203	205
17	190	185	187	211	207	207	195	195	195	211	207	208
18	188	181	186	207	207	207	195	195	195	207	203	205
19	181	163	169	207	206	207	195	195	195	203	191	196
20	177	159	165	206	206	206	195	195	195	195	191	195
21	183	177	178	206	202	204	201	195	197	195	190	192
22	189	183	186	202	202	202	206	198	201	190	182	187
23	190	186	187	202	201	201	212	203	207	190	182	188
24	187	183	184	201	201	201	214	209	211	190	190	190
25	190	185	187	201	201	201	209	208	209	190	186	190
26	192	190	191	201	200	201	208	207	207	190	186	186
27	194	192	193	200	200	200	207	206	206	186	186	186
28	198	191	194	200	196	200	209	205	206	186	185	185
29	---	---	---	200	196	196	209	204	207	185	185	185
30	---	---	---	196	196	196	211	206	207	185	185	185
31	---	---	---	196	196	196	---	---	---	189	184	187
MONTH	212	159	188	215	165	200	214	192	199	211	182	197

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	190	189	190	192	188	190	188	184	186	192	186	189
2	196	190	193	193	189	191	188	184	185	192	188	192
3	197	192	193	198	189	192	188	184	188	192	188	192
4	199	193	196	198	190	193	192	188	188	191	187	191
5	200	195	197	196	191	193	188	188	188	195	187	191
6	202	196	199	196	192	195	188	188	188	195	187	191
7	203	198	202	196	192	196	192	184	188	199	187	192
8	209	203	205	196	192	196	188	188	188	195	187	191
9	214	205	209	196	192	196	188	188	188	190	186	188
10	219	210	213	200	192	195	192	188	189	190	186	188
11	224	212	215	196	192	196	192	188	189	190	186	188
12	221	214	217	200	192	196	192	188	189	198	186	189
13	220	212	215	196	192	194	192	184	188	190	185	187
14	215	207	209	196	192	195	192	188	188	189	185	187
15	211	203	205	196	191	194	188	184	188	193	185	186
16	205	199	201	195	191	192	188	188	188	189	185	187
17	202	193	196	195	190	192	200	188	196	189	185	187
18	194	187	192	194	190	191	199	195	197	189	184	186
19	190	184	187	190	189	190	199	194	196	196	184	185
20	186	184	184	189	189	189	198	194	195	196	184	185
21	188	184	185	193	189	190	197	193	194	200	184	186
22	190	185	188	193	188	189	197	192	194	188	184	184
23	191	186	189	192	188	188	196	192	192	188	184	184
24	191	187	189	192	187	188	195	191	192	188	183	185
25	192	187	189	191	187	187	191	190	191	187	183	183
26	192	188	189	187	186	187	190	186	190	195	182	184
27	193	185	188	186	186	186	190	189	189	186	182	182
28	194	186	189	190	186	186	189	188	189	186	182	185
29	195	187	191	189	185	186	188	188	188	190	186	186
30	192	187	189	185	185	185	191	187	188	187	186	187
31	---	---	---	189	184	185	191	186	187	---	---	---
MONTH	224	184	197	200	184	191	200	184	190	200	182	187

CUMBERLAND RIVER BASIN

03418420 CUMBERLAND RIVER BELOW CORDELL HULL DAM, TN--Continued

PH (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	7.9	7.5	7.6	7.3	7.4	7.4	7.7	7.5	7.9	7.8	7.5	7.3
2	7.7	7.5	7.7	7.3	7.4	7.4	7.7	7.5	8.0	7.7	7.5	7.3
3	7.7	7.5	7.6	7.3	7.5	7.4	7.8	7.5	8.1	7.6	7.5	7.3
4	7.7	7.5	7.6	7.4	7.5	7.4	7.8	7.5	8.2	7.8	7.5	7.3
5	7.6	7.1	7.6	7.4	7.4	7.2	7.7	7.4	8.0	7.6	7.5	7.3
6	7.8	7.1	7.5	7.3	7.5	7.2	7.7	7.4	8.0	7.7	7.4	7.2
7	7.9	7.4	7.5	7.1	7.6	7.3	7.6	7.5	8.0	7.9	7.3	7.2
8	7.9	7.3	7.6	7.3	7.6	7.3	7.7	7.6	8.0	7.9	7.4	7.2
9	7.6	7.2	7.7	7.2	7.7	7.2	7.6	7.4	8.0	7.7	7.4	7.2
10	7.6	7.1	7.6	7.1	7.6	7.5	7.8	7.4	7.8	7.6	7.3	7.2
11	7.5	7.1	7.4	7.2	7.6	7.4	7.6	7.4	7.8	7.6	7.3	7.1
12	7.5	7.1	7.5	7.3	7.7	7.3	7.6	7.4	7.8	7.7	7.3	7.1
13	7.4	7.1	7.3	7.2	7.7	7.3	7.7	7.5	7.8	7.5	7.3	7.1
14	7.6	7.2	7.5	6.9	7.6	7.1	7.6	7.4	7.7	7.5	7.5	7.1
15	7.5	7.2	7.5	6.9	7.7	7.3	7.5	7.3	7.8	7.6	7.6	7.5
16	7.6	7.1	7.5	7.0	7.6	7.4	7.8	7.3	7.8	7.7	7.6	7.5
17	7.8	7.1	7.5	7.0	7.6	7.3	7.6	7.3	7.7	7.6	7.6	7.5
18	7.8	7.4	7.4	7.1	7.7	7.4	7.9	7.5	7.7	7.6	7.7	7.6
19	7.8	7.5	7.5	7.2	7.4	7.1	7.7	7.5	7.6	7.5	7.8	7.6
20	7.7	7.5	7.3	7.2	7.3	7.1	7.6	7.5	7.5	7.5	7.9	7.7
21	8.0	7.5	7.5	7.2	7.4	7.3	7.6	7.5	7.6	7.5	7.9	7.6
22	7.8	7.6	7.4	7.1	7.5	7.4	7.7	7.4	7.6	7.4	7.9	7.8
23	7.7	7.4	7.4	7.3	7.4	7.3	7.6	7.4	7.5	7.4	7.9	7.8
24	7.7	7.3	7.4	7.3	7.4	7.3	7.7	7.6	7.4	7.4	7.9	7.5
25	7.7	7.3	7.4	7.2	7.5	7.4	7.9	7.6	7.5	7.4	7.9	7.7
26	7.7	7.2	7.3	7.2	7.5	7.4	7.8	7.5	7.5	7.4	7.9	7.8
27	7.8	7.3	7.2	7.1	7.6	7.3	7.8	7.5	7.5	7.4	7.9	7.7
28	7.8	7.4	7.3	7.2	7.6	7.5	7.9	7.7	7.4	7.3	7.8	7.6
29	7.7	7.3	7.4	7.2	7.6	7.5	7.9	7.8	---	---	8.0	7.8
30	7.8	7.3	7.5	7.3	7.7	7.4	7.9	7.8	---	---	8.0	7.8
31	7.7	7.4	---	---	7.7	7.5	7.9	7.8	---	---	8.0	7.8
MONTH	8.0	7.1	7.7	6.9	7.7	7.1	7.9	7.3	8.2	7.3	8.0	7.1
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.0	7.8	7.7	7.4	7.4	7.3	7.8	7.2	7.8	7.1	7.8	7.0
2	8.0	7.8	7.6	7.4	7.5	7.4	8.0	7.2	8.1	7.4	7.7	7.3
3	8.1	7.8	---	---	7.5	7.5	7.9	7.3	8.2	7.3	7.8	7.4
4	8.1	7.8	---	---	7.5	7.3	7.9	7.2	8.1	7.1	7.7	7.4
5	8.1	7.7	7.6	7.5	7.8	7.2	8.3	7.3	7.9	7.3	7.7	7.3
6	8.0	7.8	7.7	7.3	7.7	7.1	8.0	7.3	7.7	7.2	7.6	7.2
7	7.9	7.8	7.7	7.4	7.7	6.9	7.8	7.2	7.8	7.1	8.2	7.2
8	7.8	7.7	7.8	7.3	8.2	7.1	8.0	7.1	7.5	7.1	8.1	7.4
9	8.2	7.5	7.8	7.4	8.2	7.1	8.0	7.2	7.4	7.1	7.7	7.1
10	8.0	7.8	7.9	7.4	7.9	7.1	7.6	7.1	7.4	7.0	7.6	7.1
11	7.9	7.6	7.9	7.1	8.1	7.2	7.8	7.2	8.0	7.1	7.6	7.0
12	7.8	7.6	7.8	7.2	7.8	7.2	8.0	7.1	7.5	7.1	7.8	7.2
13	7.9	7.7	7.9	7.1	7.8	7.1	8.1	7.4	7.6	7.1	7.6	7.1
14	8.0	7.8	7.8	7.3	7.8	7.1	7.8	7.2	7.5	7.1	7.2	7.0
15	8.1	7.9	7.8	7.3	8.0	7.0	7.6	7.0	7.4	7.1	8.3	6.9
16	7.9	7.7	7.9	7.2	8.0	7.1	7.5	7.2	8.2	7.4	8.0	7.7
17	7.9	7.7	7.7	7.1	7.7	7.1	7.5	7.0	7.5	7.2	8.0	7.5
18	7.8	7.7	7.3	7.1	7.9	7.2	7.5	7.0	7.8	7.5	7.6	7.3
19	7.8	7.2	7.2	7.0	7.9	7.2	7.5	7.0	8.0	7.4	7.8	7.3
20	7.8	7.2	7.0	6.9	7.7	7.1	7.5	6.9	8.0	7.3	7.7	7.5
21	7.6	7.1	7.0	6.9	7.9	7.2	7.6	6.9	7.8	7.3	7.7	7.3
22	7.6	7.1	7.0	6.8	7.9	7.3	7.6	6.9	7.7	7.3	7.9	7.3
23	7.9	7.5	7.1	6.8	7.8	7.3	7.4	6.9	8.1	7.3	7.5	7.2
24	7.9	7.5	7.1	7.0	7.9	7.3	7.5	6.9	7.7	7.3	7.8	7.2
25	7.9	7.5	7.1	7.0	8.0	7.3	7.4	6.9	7.9	7.2	8.0	7.3
26	8.1	7.8	7.1	7.0	8.0	7.3	7.9	7.1	7.5	7.2	7.8	7.3
27	7.9	7.7	7.2	7.1	7.8	7.2	8.1	7.0	7.4	7.1	7.6	7.3
28	8.1	7.7	7.2	7.0	7.8	7.2	8.0	6.9	7.9	7.1	7.5	7.4
29	8.2	7.8	7.2	7.0	8.0	7.2	7.9	7.0	7.5	7.0	7.5	7.3
30	8.0	7.5	7.2	7.2	7.8	7.3	7.9	7.1	7.5	7.0	7.6	7.2
31	---	---	7.3	7.2	---	---	7.8	7.1	7.3	7.0	---	---
MONTH	8.2	7.1	7.9	6.8	8.2	6.9	8.3	6.9	8.2	7.0	8.3	6.9

CUMBERLAND RIVER BASIN

03418420 CUMBERLAND RIVER BELOW CORDELL HULL DAM, TN--Continued

TEMPERATURE, WATER (DEG. C), 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	19.2	18.0	18.5	16.6	16.0	16.3	11.4	10.8	11.0	9.4	9.0	9.4
2	18.8	18.2	18.4	16.2	15.8	16.0	10.8	10.6	10.7	9.2	8.6	8.9
3	18.4	17.9	18.2	16.1	15.6	16.0	11.0	10.8	10.9	8.8	8.2	8.5
4	18.5	17.7	18.0	16.1	15.9	16.0	11.1	11.0	11.0	8.2	7.8	8.1
5	18.1	17.4	17.8	16.1	15.9	16.0	11.1	11.1	11.1	7.8	7.2	7.5
6	18.9	17.5	18.0	16.1	15.8	15.9	11.3	11.1	11.2	7.2	7.0	7.0
7	18.9	17.7	18.0	16.2	15.4	15.7	11.5	11.3	11.4	7.2	7.0	7.0
8	19.1	17.7	18.3	15.8	15.4	15.5	11.7	11.3	11.5	7.0	6.6	6.8
9	18.7	17.4	18.1	16.1	15.4	15.7	11.7	11.5	11.6	6.6	6.4	6.5
10	18.3	17.0	17.6	16.1	15.5	15.9	11.7	11.7	11.7	6.8	6.2	6.4
11	18.1	17.4	17.7	15.5	15.2	15.4	11.7	11.3	11.4	6.8	6.4	6.5
12	17.7	17.3	17.5	15.4	15.2	15.3	11.3	10.9	11.1	7.2	6.6	6.9
13	17.3	17.3	17.3	15.4	15.1	15.2	10.9	10.7	10.8	7.7	7.2	7.3
14	17.3	17.1	17.2	15.3	14.8	15.0	10.7	10.4	10.5	8.1	7.7	8.0
15	17.4	17.1	17.3	15.1	14.8	15.0	10.4	10.2	10.3	8.1	8.1	8.1
16	17.6	17.1	17.3	15.1	14.8	15.0	10.2	10.0	10.1	8.3	8.1	8.2
17	17.6	16.9	17.3	14.9	14.7	14.8	10.0	9.8	10.0	8.7	8.3	8.5
18	18.0	17.1	17.4	14.7	14.4	14.7	9.8	9.2	9.6	9.5	8.7	9.1
19	17.7	17.4	17.5	14.6	14.3	14.4	9.2	9.0	9.1	9.9	9.5	9.8
20	17.9	17.4	17.6	14.3	14.2	14.3	9.2	8.8	9.1	9.9	9.1	9.6
21	17.9	17.2	17.6	14.4	14.1	14.2	9.6	9.2	9.4	9.1	8.1	8.7
22	17.8	17.5	17.6	14.5	13.7	14.1	9.8	9.4	9.6	8.1	7.5	7.9
23	18.0	17.1	17.5	13.7	13.3	13.6	10.0	9.8	9.8	7.6	7.3	7.5
24	17.8	16.5	17.0	13.3	12.8	13.1	9.8	9.8	9.8	7.3	7.1	7.2
25	17.9	16.8	17.3	12.8	12.6	12.8	9.8	9.4	9.6	7.1	6.8	6.9
26	17.2	16.4	16.9	12.6	12.4	12.6	9.4	9.2	9.4	7.0	6.6	6.8
27	17.4	16.4	16.8	12.4	12.3	12.4	9.2	9.0	9.1	6.8	6.6	6.6
28	17.1	16.4	16.8	12.5	12.2	12.3	9.0	8.8	9.0	6.8	6.6	6.6
29	16.9	16.3	16.7	12.2	12.0	12.0	9.2	9.0	9.1	6.6	6.4	6.5
30	16.7	16.5	16.6	12.0	11.4	11.7	9.4	9.2	9.3	6.4	5.9	6.2
31	16.8	16.5	16.6	---	---	---	9.4	9.4	9.4	6.1	5.5	5.8
MONTH	19.2	16.3	17.5	16.6	11.4	14.6	11.7	8.8	10.2	9.9	5.5	7.6
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.3	5.5	5.7	7.8	7.5	7.7	11.3	10.8	11.0	14.3	13.9	14.1
2	6.1	5.7	5.9	7.5	7.3	7.3	11.5	11.1	11.2	13.9	13.2	13.4
3	6.3	5.9	6.0	7.3	6.9	7.1	12.1	11.1	11.4	15.1	13.2	14.0
4	6.3	6.0	6.1	7.3	6.9	7.1	12.4	11.7	12.1	14.5	13.3	13.9
5	6.0	5.8	5.9	7.6	7.3	7.4	12.6	11.5	12.0	14.2	12.8	13.5
6	5.9	5.4	5.7	7.8	7.6	7.7	12.6	12.3	12.4	13.9	12.7	13.4
7	5.7	5.1	5.5	9.0	7.8	8.3	12.4	11.9	12.2	14.8	13.4	13.9
8	5.3	4.7	5.0	8.4	8.0	8.2	12.4	11.7	12.0	16.5	13.8	14.3
9	5.0	4.6	4.8	9.0	8.0	8.5	13.1	12.0	12.5	15.6	13.6	14.8
10	4.8	4.4	4.5	8.8	8.2	8.5	13.1	12.2	12.6	14.7	12.8	14.2
11	4.4	4.0	4.3	8.2	7.8	8.1	14.5	12.5	13.3	15.2	12.4	13.4
12	4.3	3.2	3.9	8.0	7.6	7.8	14.5	12.9	13.6	14.9	12.9	13.8
13	4.5	3.9	4.2	8.4	7.8	8.1	13.9	12.5	13.0	15.5	13.3	14.2
14	4.1	3.9	4.0	9.1	8.4	8.7	13.7	12.7	13.1	15.6	13.6	15.0
15	4.7	3.9	4.2	9.7	9.1	9.4	13.5	12.9	13.2	16.3	14.9	15.7
16	4.7	4.5	4.6	10.3	9.6	9.9	13.7	13.3	13.4	17.4	14.9	16.1
17	5.1	4.3	4.6	10.7	10.1	10.3	14.0	13.5	13.7	17.1	16.4	16.8
18	6.3	5.1	5.5	11.0	10.4	10.8	14.6	13.6	14.0	16.9	15.8	16.5
19	6.9	6.3	6.7	11.2	10.7	10.9	14.6	14.0	14.4	15.8	13.7	15.3
20	7.5	6.9	7.2	11.0	10.8	10.9	16.0	14.0	14.7	13.7	12.1	12.5
21	7.5	7.5	7.5	11.1	10.7	10.9	17.6	14.6	15.4	13.0	12.1	12.5
22	7.6	7.5	7.5	11.4	10.8	11.0	16.7	14.7	16.0	13.8	13.0	13.4
23	7.6	7.6	7.6	11.5	11.1	11.3	16.1	14.7	15.1	13.7	13.3	13.6
24	7.6	7.5	7.5	12.2	11.2	11.7	15.8	14.4	15.0	13.8	13.2	13.3
25	7.5	7.3	7.3	12.3	11.7	12.0	14.9	14.3	14.7	13.7	13.0	13.4
26	7.5	7.3	7.3	12.4	10.5	12.0	14.6	13.8	14.3	13.8	13.3	13.5
27	7.6	7.5	7.6	11.9	10.5	11.1	14.4	13.2	13.7	13.9	13.4	13.6
28	7.8	7.6	7.8	11.0	10.4	10.7	15.5	13.1	14.2	13.7	13.3	13.5
29	---	---	---	11.2	10.6	10.8	15.6	14.0	14.6	13.7	13.0	13.3
30	---	---	---	11.2	10.6	10.9	15.0	14.3	14.8	14.2	13.3	13.7
31	---	---	---	11.4	10.6	10.9	---	---	---	14.4	13.8	14.1
MONTH	7.8	3.2	5.9	12.4	6.9	9.5	17.6	10.8	13.5	17.4	12.1	14.1

CUMBERLAND RIVER BASIN

03418420 CUMBERLAND RIVER BELOW CORDELL HULL DAM, TN--Continued

TEMPERATURE, WATER (DEG. C), 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	14.8	14.0	14.5	19.7	18.1	19.0	21.8	19.4	20.5	22.4	19.6	20.5
2	14.9	14.4	14.7	19.7	18.5	19.0	22.2	19.2	20.5	21.4	19.2	20.2
3	14.9	14.3	14.6	20.1	18.5	19.0	23.1	19.0	20.8	21.6	19.6	20.4
4	15.3	14.7	14.9	21.2	18.3	19.3	23.1	19.4	20.9	21.3	19.6	20.5
5	15.7	14.5	15.0	22.7	18.8	20.5	21.4	19.4	20.6	21.7	19.7	20.8
6	16.0	14.8	15.3	22.2	19.4	20.5	20.6	19.2	20.0	21.5	19.7	20.6
7	16.2	14.8	15.4	21.4	18.8	20.1	21.8	19.6	20.2	22.1	19.9	20.7
8	18.3	15.2	16.4	22.0	19.0	20.2	22.5	19.6	20.6	21.7	19.9	20.5
9	19.1	16.2	17.5	22.0	19.2	20.3	22.5	19.4	20.5	20.9	19.5	20.2
10	18.6	16.9	17.9	20.8	19.4	20.1	21.6	19.4	20.5	20.5	19.3	19.8
11	19.4	17.4	18.2	22.0	19.4	20.0	22.0	19.4	20.4	21.4	19.4	20.2
12	18.8	17.6	18.2	22.4	19.6	20.6	22.2	19.4	20.4	22.4	19.2	20.7
13	18.7	17.5	18.1	23.7	19.6	21.6	21.6	19.6	20.5	20.8	19.4	20.4
14	18.8	17.4	18.0	23.3	19.8	21.6	22.0	19.8	20.5	20.8	19.2	20.1
15	19.3	17.7	18.4	22.4	20.0	21.4	22.0	19.8	20.5	21.0	19.4	20.0
16	19.8	17.6	18.7	21.6	20.4	20.8	23.3	19.8	21.3	20.2	19.2	19.9
17	18.7	17.5	18.2	21.6	19.2	20.2	23.3	20.0	21.9	20.1	18.9	19.7
18	19.8	17.2	18.0	21.0	19.0	19.7	23.3	20.6	21.9	21.1	19.1	19.6
19	19.7	17.3	18.1	21.6	18.8	19.8	23.3	20.6	21.9	20.9	18.9	19.6
20	19.2	17.8	18.3	21.8	18.8	20.0	22.4	20.6	21.5	20.9	18.9	20.0
21	20.6	17.8	18.9	21.6	18.4	19.9	21.8	19.8	20.8	20.3	19.1	19.7
22	21.1	18.0	19.1	21.2	18.6	19.7	21.6	19.4	20.2	19.5	18.9	19.2
23	20.7	18.1	19.3	21.0	19.0	19.7	21.6	19.2	19.9	20.0	18.5	19.2
24	20.7	18.5	19.6	21.4	18.8	19.9	20.4	18.8	19.6	19.6	19.0	19.3
25	21.1	18.7	19.6	19.8	18.6	19.3	21.7	18.9	19.8	19.6	19.0	19.2
26	20.4	18.4	19.4	21.6	19.0	19.8	20.7	19.1	19.5	19.2	18.6	18.9
27	21.0	18.2	19.2	22.4	18.6	20.2	20.1	19.1	19.5	19.2	18.4	18.7
28	20.0	18.2	19.0	22.5	18.8	20.8	22.5	19.1	20.3	19.2	18.2	18.7
29	20.6	18.0	19.1	22.2	19.4	20.7	21.3	19.5	20.2	19.2	18.0	18.5
30	19.5	18.0	18.7	22.0	19.4	20.7	22.6	19.5	20.6	19.7	18.1	18.8
31	---	---	---	21.8	19.6	20.6	22.3	19.9	20.7	---	---	---
MONTH	21.1	14.0	17.7	23.7	18.1	20.2	23.3	18.8	20.5	22.4	18.0	19.8

OXYGEN, DISSOLVED (DO), 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	10.3	8.9	9.4	8.6	8.2	8.4	9.9	9.7	9.8	8.7	8.6	8.6
2	9.8	8.7	9.3	8.7	7.7	8.4	9.8	9.3	9.5	8.9	8.6	8.7
3	9.3	8.7	9.0	9.1	7.5	8.5	9.3	8.5	8.9	9.5	8.6	8.9
4	9.5	8.6	9.0	8.9	8.2	8.6	8.5	8.1	8.3	9.1	8.9	9.0
5	9.5	8.4	8.9	9.1	8.3	8.7	9.4	7.8	8.1	9.4	9.1	9.2
6	10.0	8.0	9.0	8.8	8.3	8.7	8.1	7.8	8.0	9.4	9.2	9.3
7	10.3	8.8	9.2	8.9	7.6	8.4	8.2	7.8	8.0	9.5	9.3	9.3
8	10.1	8.6	9.2	9.4	8.5	8.9	8.1	7.7	8.0	9.8	9.3	9.5
9	9.3	8.0	8.7	9.8	8.4	9.2	8.1	7.6	8.0	9.8	9.5	9.7
10	9.6	8.1	8.6	9.6	8.5	9.1	8.2	7.6	8.1	9.9	9.2	9.7
11	9.6	8.0	8.8	9.3	8.3	9.0	8.3	8.2	8.3	10.0	9.6	9.8
12	9.5	8.3	9.0	9.4	9.0	9.3	8.4	8.0	8.2	9.9	9.7	9.8
13	9.2	8.2	8.8	9.6	9.0	9.4	8.2	7.9	8.1	9.9	9.6	9.8
14	9.2	7.9	8.6	10.0	8.8	9.5	8.2	7.9	8.1	9.7	9.5	9.6
15	9.2	7.9	8.7	10.4	8.1	9.7	8.1	7.8	8.1	9.8	9.5	9.6
16	9.3	8.0	8.5	10.2	9.4	9.9	8.0	7.9	8.0	9.6	9.5	9.6
17	9.4	7.8	8.4	10.1	9.4	9.8	8.0	7.8	8.0	9.7	9.6	9.6
18	9.1	8.0	8.4	10.1	9.6	10.0	8.0	7.8	7.9	9.6	9.5	9.6
19	8.9	7.8	8.4	10.1	9.9	10.0	8.4	7.7	8.1	9.5	9.3	9.4
20	8.7	7.5	8.1	10.4	10.0	10.2	8.2	8.0	8.1	9.7	9.3	9.5
21	9.3	7.8	8.5	10.9	10.0	10.6	8.3	8.0	8.1	9.9	9.6	9.8
22	8.9	8.1	8.4	11.4	9.1	10.7	8.2	8.2	8.2	10.1	9.8	9.9
23	8.6	7.5	8.1	11.3	9.7	10.5	8.3	8.2	8.2	10.1	9.9	10.0
24	8.1	6.6	7.6	9.7	8.8	9.2	8.4	8.2	8.3	10.3	10.0	10.2
25	8.2	6.9	7.5	8.8	8.3	8.5	8.5	8.2	8.5	10.4	10.1	10.3
26	8.9	7.1	8.1	8.6	8.3	8.4	8.7	8.3	8.6	10.5	10.3	10.4
27	8.8	7.4	8.2	9.1	8.5	8.7	9.0	8.5	8.8	10.5	10.4	10.4
28	9.7	8.0	8.9	9.8	8.7	9.4	9.0	8.8	8.9	10.6	10.4	10.5
29	9.4	8.2	9.0	10.1	9.5	9.9	8.9	8.7	8.8	10.7	10.5	10.6
30	8.8	7.8	8.6	9.9	9.4	9.8	8.8	8.6	8.7	11.0	10.6	10.8
31	8.6	7.9	8.3	---	---	---	8.9	8.6	8.6	11.3	10.8	11.0
MONTH	10.3	6.6	8.6	11.4	7.5	9.3	9.9	7.6	8.4	11.3	8.6	9.7

CUMBERLAND RIVER BASIN

03418420 CUMBERLAND RIVER BELOW CORDELL HULL DAM, TN--Continued

OXYGEN, DISSOLVED (DO), 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	11.4	11.0	11.2	11.1	10.8	11.0	11.3	10.8	11.2	9.9	8.6	9.4
2	11.5	11.1	11.4	11.2	10.9	11.1	11.7	11.2	11.4	9.5	8.8	9.3
3	11.6	11.4	11.5	11.3	10.9	11.2	11.8	11.0	11.4	10.3	8.9	9.6
4	11.7	11.5	11.6	11.4	11.1	11.3	12.0	10.8	11.4	10.0	7.9	9.0
5	11.8	11.6	11.7	11.4	11.2	11.3	11.4	10.8	11.1	9.5	8.4	9.1
6	12.1	11.6	11.8	11.3	11.0	11.2	11.4	10.9	11.2	9.8	8.1	9.0
7	12.4	11.7	11.9	11.4	10.9	11.2	11.5	11.0	11.2	10.7	7.6	9.0
8	12.1	11.7	11.9	11.3	11.1	11.2	11.5	10.9	11.3	9.8	7.5	8.7
9	12.2	11.7	12.0	11.2	10.5	10.9	11.6	11.0	11.3	9.6	7.9	9.0
10	12.2	11.9	12.1	10.5	10.3	10.4	11.6	11.0	11.2	9.6	8.8	9.1
11	12.3	12.0	12.1	10.6	10.4	10.5	11.1	10.9	11.0	9.5	8.1	8.8
12	12.3	11.9	12.2	10.8	10.6	10.7	11.1	10.6	10.8	9.7	8.0	9.0
13	12.3	12.0	12.2	10.9	10.6	10.8	11.0	10.4	10.6	9.6	7.8	8.7
14	12.3	12.0	12.2	10.9	10.8	10.9	10.8	10.3	10.6	9.1	8.0	8.8
15	12.3	11.6	12.1	11.0	10.8	10.9	10.9	10.4	10.7	9.1	8.0	8.7
16	12.2	12.0	12.0	11.3	10.8	11.0	10.7	10.3	10.6	9.3	7.8	8.4
17	12.2	12.0	12.2	11.1	10.9	11.0	11.0	10.5	10.7	8.5	7.5	8.1
18	12.1	11.6	11.9	11.3	10.9	11.1	10.9	10.4	10.7	8.2	7.1	7.8
19	11.6	11.1	11.2	11.4	11.1	11.2	10.8	10.2	10.4	7.9	7.0	7.4
20	11.1	11.0	11.0	11.2	11.0	11.1	10.5	10.2	10.4	8.5	7.9	8.3
21	11.1	11.0	11.0	11.0	10.9	11.0	11.0	10.0	10.4	8.4	7.8	8.1
22	11.1	11.0	11.0	11.2	10.8	11.0	10.7	10.3	10.5	8.0	7.8	7.8
23	11.1	11.0	11.0	11.1	10.9	11.0	10.6	10.1	10.3	8.5	7.8	8.2
24	11.1	11.1	11.1	11.3	10.4	10.9	10.6	10.1	10.2	9.0	8.4	8.7
25	11.1	11.1	11.1	11.2	10.9	11.0	10.4	10.0	10.3	9.3	8.9	9.0
26	11.2	11.1	11.1	11.2	10.9	11.0	10.8	10.3	10.4	10.0	9.0	9.1
27	11.1	11.1	11.1	11.2	10.6	10.9	10.6	10.2	10.4	9.1	8.9	9.0
28	11.1	10.7	11.0	11.0	10.3	10.7	11.0	10.3	10.6	8.9	8.7	8.8
29	---	---	---	11.4	10.6	11.0	11.2	10.4	10.7	8.7	8.6	8.7
30	---	---	---	11.5	11.0	11.3	10.6	9.6	10.2	9.9	8.6	8.7
31	---	---	---	11.7	11.0	11.3	---	---	---	9.5	8.5	9.0
MONTH	12.4	10.7	11.6	11.7	10.3	11.0	12.0	9.6	10.8	10.7	7.0	8.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.2	9.1	9.1	9.1	8.1	8.9	9.0	8.2	8.4	8.5	6.1	7.1
2	9.5	8.6	9.1	9.0	7.0	8.3	9.0	7.8	8.3	7.1	5.4	6.1
3	9.9	9.5	9.7	8.9	8.3	8.5	9.3	7.4	8.3	7.2	5.4	6.2
4	10.2	9.8	9.9	8.8	7.9	8.3	9.0	7.4	8.2	7.0	5.6	6.2
5	11.1	9.7	10.1	8.8	7.3	8.1	8.3	7.5	7.9	7.3	5.6	6.3
6	10.8	8.6	9.9	8.5	7.6	7.9	7.8	7.3	7.6	7.2	5.8	6.4
7	10.4	7.5	9.4	8.6	7.5	7.9	8.3	7.2	7.5	7.9	5.9	6.6
8	11.6	8.3	10.1	9.0	7.7	8.2	8.9	7.3	7.7	7.6	5.9	6.4
9	11.2	8.6	9.9	8.9	7.9	8.2	8.8	7.1	7.7	7.0	5.5	6.1
10	10.4	8.4	9.6	8.5	8.0	8.1	8.5	7.3	7.6	6.8	5.3	6.0
11	10.2	8.5	9.6	8.7	7.3	8.1	8.9	7.5	7.9	8.2	5.6	6.5
12	9.8	7.6	8.8	8.1	7.9	8.3	9.0	7.6	8.0	8.2	5.7	6.5
13	9.6	6.7	8.6	9.3	7.8	8.6	---	---	---	6.4	5.6	6.1
14	10.0	6.6	8.7	9.2	7.4	8.5	---	---	---	7.1	5.6	6.1
15	10.4	6.8	8.6	9.0	7.0	8.3	8.9	7.5	8.0	8.2	5.3	6.5
16	10.4	6.9	8.7	8.9	7.9	8.5	9.0	7.5	8.0	6.9	5.7	6.3
17	10.0	7.0	9.2	9.1	7.0	8.0	9.4	7.7	8.4	6.6	5.6	5.9
18	10.4	7.4	9.1	9.1	7.5	8.3	9.2	7.8	8.5	7.7	5.4	6.0
19	10.1	6.7	8.6	9.6	7.7	8.6	9.2	7.8	8.5	7.8	5.3	6.2
20	9.9	7.0	9.0	9.4	7.3	8.5	9.3	7.5	8.5	7.5	5.6	6.4
21	10.3	7.3	9.2	9.1	7.9	8.5	9.2	7.1	8.2	7.4	5.7	6.4
22	10.2	8.6	9.6	9.0	8.1	8.4	9.3	6.8	8.1	7.2	6.4	6.7
23	10.2	7.2	8.7	8.8	7.4	8.2	9.7	6.6	8.0	7.0	6.1	6.7
24	10.2	6.9	9.0	8.6	7.1	7.9	8.8	7.1	8.1	7.4	5.8	6.4
25	10.1	8.1	9.3	8.6	8.2	8.4	9.5	7.0	8.3	7.7	6.8	7.1
26	10.0	6.6	8.4	9.4	8.0	8.5	8.6	6.9	7.8	7.6	6.6	7.2
27	9.6	7.1	9.0	9.4	7.9	8.7	8.2	7.0	7.7	7.6	6.4	6.9
28	9.4	7.0	8.6	9.3	8.0	8.7	9.3	7.1	8.1	8.0	6.6	7.2
29	9.6	6.8	8.3	9.4	7.7	8.6	8.2	6.0	7.4	8.0	6.8	7.2
30	9.3	7.1	8.7	9.2	7.6	8.3	8.9	5.8	7.2	8.6	7.0	7.5
31	---	---	---	9.3	7.5	8.2	8.7	6.7	7.5	---	---	---
MONTH	11.6	6.6	9.1	9.6	7.0	8.3	9.7	5.8	8.0	8.6	5.3	6.5

CUMBERLAND RIVER BASIN

03420185 COLLINS RIVER AT BEERSHEBA SPRINGS, TN

LOCATION.--Lat 35°28'47", long 85°38'57", Grundy County, Hydrologic Unit 05130107, at left downstream end of State Highway 56 bridge, 2.6 mi downstream from Big Creek, 1.9 mi northeast of Beersheba Springs, and at mile 52.5.

DRAINAGE AREA.--157 mi².

PERIOD OF RECORD.--April 1994 to December 1995 (discontinued).

GAGE.--Data logger. Elevation of gage is 919.09 ft above sea level.

REMARKS.--Records fair. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1928 reached a discharge of 31,700 ft³/s, from WSP 1767. Flood in February 1994 reached a stage of 20.36 ft, discharge 18,100 ft³/s, and in March, 1994 reached a stage of 18.25 ft, discharge 13,000 ft³/s, from flood marks at gage, discharge from rating curve extended above 16.19 ft, discharge 9,320 ft³/s, by straight line extension.

EXTREMES FOR CURRENT PERIOD.--October 1994 to December 1995: Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar. 8, 1995	1115	3,320	11.49	Nov. 7, 1995	1445	10,300	16.84
Oct. 5, 1995	1030	*10,900	*17.15				

No flow many days.

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	.00	.00	9.3	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	1.8	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	67	.00	.00	.03	.00	.00	.00	.00	.00	.00
6	.00	.00	125	.00	.00	5.0	.00	.00	.00	.00	.00	.00
7	.00	.00	48	.00	.00	9.6	.00	.00	.00	.00	.00	.00
8	.00	.00	12	.00	.00	1950	.00	.00	.00	.00	.00	.00
9	.00	.00	4.7	.00	.00	601	.00	.00	.00	.00	.00	.00
10	.00	.00	2.1	.00	.00	49	.00	.00	.00	.00	.00	.00
11	.00	.00	32	.00	.00	12	.00	.00	.00	.00	.00	.00
12	.00	.00	14	.00	.00	7.9	.00	.00	.00	.00	.00	.00
13	.00	.00	e3.5	.00	.00	5.7	.00	.00	.00	.00	.00	.00
14	.00	.00	e2.5	114	.00	4.1	.00	.00	.00	.00	.00	.00
15	.00	.00	e.20	424	.00	3.3	.00	.00	.00	.00	.00	.00
16	.00	.00	.12	77	74	3.0	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	18	187	2.3	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	6.7	35	1.5	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	5.3	8.0	.56	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	4.0	5.2	.03	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	2.9	4.0	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	2.2	2.8	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	1.7	1.9	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	1.0	.88	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.30	.13	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	74	.00	.00	.00	.00	.00	.00	.00	187	.00	.00
29	.00	94	.00	.00	---	.00	.00	.00	.00	.64	.00	.00
30	.00	29	.00	.01	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.02	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	197.00	322.29	657.13	318.91	2655.02	0.00	0.00	0.00	187.64	0.00	0.00
MEAN	.000	6.57	10.4	21.2	11.4	85.6	.000	.000	.000	6.05	.000	.000
MAX	.00	94	125	424	187	1950	.00	.00	.00	187	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
CFSM	.00	.04	.07	.14	.07	.55	.00	.00	.00	.04	.00	.00
IN.	.00	.05	.08	.16	.08	.63	.00	.00	.00	.04	.00	.00

e Estimated

CUMBERLAND RIVER BASIN

03420185 COLLINS RIVER AT BEERSHEBA SPRINGS, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	.000	6.57	10.4	21.2	11.4	85.6	34.9	.000	3.28	7.67	.000	.000
MAX	.000	6.57	10.4	21.2	11.4	85.6	69.8	.000	6.57	9.29	.000	.000
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994	1994
MIN	.000	6.57	10.4	21.2	11.4	85.6	.000	.000	.000	6.05	.000	.000
(WY)	1995	1995	1995	1995	1995	1995	1995	1994	1995	1995	1994	1994

SUMMARY STATISTICS	FOR 1995 WATER YEAR			WATER YEARS 1994 - 1995			
ANNUAL TOTAL	4337.99						
ANNUAL MEAN	11.9			11.9			
HIGHEST ANNUAL MEAN				11.9			1995
LOWEST ANNUAL MEAN				11.9			1995
HIGHEST DAILY MEAN	1950	Mar	8	1950	Mar	8	1995
LOWEST DAILY MEAN	.00	Oct	1	.00	May	1	1994
ANNUAL SEVEN-DAY MINIMUM	.00	Oct	1	.00	May	1	1994
INSTANTANEOUS PEAK FLOW	3320	Mar	8	3320	Mar	8	1995
INSTANTANEOUS PEAK STAGE	11.49	Mar	8	11.49	Mar	8	1995
INSTANTANEOUS LOW FLOW	a.00	Oct	1	a.00	May	1	1994
ANNUAL RUNOFF (CFSM)	.076			.076			
ANNUAL RUNOFF (INCHES)	1.03			1.03			
10 PERCENT EXCEEDS	3.1			20			
50 PERCENT EXCEEDS	.00			.00			
90 PERCENT EXCEEDS	.00			.00			

a No flow many days each year.

CUMBERLAND RIVER BASIN

03420185 COLLINS RIVER AT BEERSHEBA SPRINGS, TN--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	---	---	---	---	---	---	---	---	---
2	.00	.00	.00	---	---	---	---	---	---	---	---	---
3	.00	.00	.00	---	---	---	---	---	---	---	---	---
4	.00	.00	.00	---	---	---	---	---	---	---	---	---
5	5380	.00	.00	---	---	---	---	---	---	---	---	---
6	839	.00	.00	---	---	---	---	---	---	---	---	---
7	18	5480	.00	---	---	---	---	---	---	---	---	---
8	7.7	2030	.00	---	---	---	---	---	---	---	---	---
9	4.2	97	.00	---	---	---	---	---	---	---	---	---
10	2.4	16	.00	---	---	---	---	---	---	---	---	---
11	1.3	e160	.00	---	---	---	---	---	---	---	---	---
12	.45	e300	.00	---	---	---	---	---	---	---	---	---
13	.01	40	.00	---	---	---	---	---	---	---	---	---
14	.00	10	.00	---	---	---	---	---	---	---	---	---
15	.00	5.8	.00	---	---	---	---	---	---	---	---	---
16	.00	4.3	.00	---	---	---	---	---	---	---	---	---
17	.00	2.9	.00	---	---	---	---	---	---	---	---	---
18	.00	2.2	.00	---	---	---	---	---	---	---	---	---
19	.00	1.8	500	---	---	---	---	---	---	---	---	---
20	.00	1.2	184	---	---	---	---	---	---	---	---	---
21	.00	.56	20	---	---	---	---	---	---	---	---	---
22	.00	.06	7.1	---	---	---	---	---	---	---	---	---
23	.00	.00	4.2	---	---	---	---	---	---	---	---	---
24	.00	.00	2.8	---	---	---	---	---	---	---	---	---
25	.00	.00	2.0	---	---	---	---	---	---	---	---	---
26	.00	.00	1.4	---	---	---	---	---	---	---	---	---
27	.00	.00	.85	---	---	---	---	---	---	---	---	---
28	.00	.00	.24	---	---	---	---	---	---	---	---	---
29	.00	.00	.00	---	---	---	---	---	---	---	---	---
30	.00	.00	.00	---	---	---	---	---	---	---	---	---
31	.00	---	.00	---	---	---	---	---	---	---	---	---
TOTAL	6253.06	8151.82	722.59	---	---	---	---	---	---	---	---	---
MEAN	202	272	23.3	---	---	---	---	---	---	---	---	---
MAX	5380	5480	500	---	---	---	---	---	---	---	---	---
MIN	.00	.00	.00	---	---	---	---	---	---	---	---	---
CFSM	1.28	1.73	.15	---	---	---	---	---	---	---	---	---
IN.	1.48	1.93	.17	---	---	---	---	---	---	---	---	---

e Estimated

CUMBERLAND RIVER BASIN

03420200 COLLINS RIVER NEAR TARLTON, TN

LOCATION.--Lat 35°31'04", long 85°40'27", Grundy County, Hydrologic Unit 05130107, on right bank, 60 ft above bridge on State Highway 56, 0.4 mi below Taylor Creek, 2.2 mi northwest of Tarlton, and at mile 48.3.

DRAINAGE AREA.--174 mi².

PERIOD OF RECORD.--January 1994 to December 1995 (discontinued) discharge for stage 6.50 ft and below only.

GAGE.--Data logger. Elevation of gage is 880.54 ft above sea level.

REMARKS.--Records good. Flow is affected by backwater fram a natural constriction approximately 2 mi downstream of gage above gage heights of 6.50 ft, discharge 1700 ft³/s. All discharges above this gage height are unkown and have been revised. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT PERIOD.--October 1994 to December 1995: Maximum discharge, not determined; maximum gage height, 12.70 ft, Mar. 8; minimum discharge, 7.7 ft³/s, July 22.

REVISIONS.--Revised maximum for discharges water year 1994, revised daily discharges, in cubic feet per second, for high-water periods during the year are given below. These figures supersede those published in the report for 1994.

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Feb. 11	1100	Unknown	*32.32	Apr. 6	1115	Unknown	14.82
Feb. 23	1500	Unknown	18.02	Apr. 11	0930	Unknown	18.56
Mar. 2	2115	Unknown	10.05	Apr. 16	0400	Unknown	14.52
Mar. 28	0900	Unknown	27.22	June 27	0445	Unknown	9.54

Daily discharges:

Feb. 10	Unknown	Mar. 2	Unknown	Apr. 6	Unknown	June 27	Unknown		
11	Unknown	3	Unknown	7	Unknown				
12	Unknown	4	Unknown	8	Unknown				
13	Unknown	25	Unknown	10	Unknown				
21	Unknown	26	Unknown	11	Unknown				
22	Unknown	27	Unknown	12	Unknown				
23	Unknown	28	Unknown	13	Unknown				
24	Unknown	29	Unknown	14	Unknown				
25	Unknown	30	Unknown	15	Unknown				
				16	Unknown				
				17	Unknown				

CUMBERLAND RIVER BASIN

03420200 COLLINS RIVER NEAR TARLTON, TN--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	54	438	52	500	662	255	181	24	12	109	17
2	22	56	307	51	406	539	228	221	24	13	64	17
3	20	52	241	47	337	446	202	253	25	14	50	22
4	22	46	277	43	295	390	177	221	25	13	37	20
5	24	45	1080	312	259	579	156	206	23	14	32	16
6	21	49	1160	386	228	---	137	190	21	15	34	14
7	17	77	743	---	205	1310	121	161	19	14	139	12
8	16	72	498	---	193	---	106	135	17	12	515	11
9	16	65	362	---	164	---	94	117	15	10	1050	9.6
10	26	75	344	844	163	---	84	138	14	11	468	9.0
11	46	129	1140	741	189	1080	77	184	15	20	270	9.1
12	37	122	891	1500	209	774	90	224	17	14	202	9.8
13	33	103	594	1230	191	565	130	197	22	11	139	9.9
14	283	88	429	925	178	444	117	179	21	9.7	81	14
15	579	78	322	672	179	361	96	297	17	8.9	54	24
16	315	71	261	518	---	306	86	255	14	19	42	27
17	227	66	245	705	---	266	81	209	12	27	34	277
18	170	61	227	923	---	238	83	163	11	18	28	288
19	121	55	200	710	995	215	82	136	11	13	23	176
20	100	51	174	609	699	194	84	147	19	10	24	87
21	119	47	153	496	523	198	697	117	33	8.7	153	52
22	116	44	134	431	395	214	1180	82	30	10	192	63
23	101	41	122	402	325	192	765	66	33	30	113	120
24	109	37	110	341	295	172	663	55	35	55	60	117
25	94	34	96	288	263	149	530	47	33	42	40	88
26	80	34	83	260	235	132	401	41	24	30	38	73
27	71	62	74	240	217	193	313	37	19	21	47	63
28	64	---	68	438	358	542	258	33	16	---	39	49
29	58	---	63	1030	---	437	223	31	13	879	31	38
30	53	760	59	907	---	354	194	29	12	318	24	31
31	52	---	55	660	---	295	---	26	---	192	20	---
TOTAL	3039	---	10950	---	---	---	7710	4378	614	---	4152	1763.4
MEAN	98.0	---	353	---	---	---	257	141	20.5	---	134	58.8
MAX	579	---	1160	---	---	---	1180	297	35	---	1050	288
MIN	16	---	55	---	---	---	77	26	11	---	20	9.0
CFSM	.91	---	3.27	---	---	---	2.38	1.31	.19	---	1.24	.54
IN.	1.05	---	3.77	---	---	---	2.66	1.51	.21	---	1.43	.61

CUMBERLAND RIVER BASIN

03420200 COLLINS RIVER NEAR TARLTON, TN--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	250	304	---	---	---	---	---	---	---	---	---
2	23	624	270	---	---	---	---	---	---	---	---	---
3	21	---	242	---	---	---	---	---	---	---	---	---
4	86	1180	285	---	---	---	---	---	---	---	---	---
5	---	786	347	---	---	---	---	---	---	---	---	---
6	---	556	320	---	---	---	---	---	---	---	---	---
7	---	---	300	---	---	---	---	---	---	---	---	---
8	722	---	281	---	---	---	---	---	---	---	---	---
9	429	---	448	---	---	---	---	---	---	---	---	---
10	298	1110	600	---	---	---	---	---	---	---	---	---
11	233	---	497	---	---	---	---	---	---	---	---	---
12	190	---	408	---	---	---	---	---	---	---	---	---
13	153	1310	340	---	---	---	---	---	---	---	---	---
14	132	970	295	---	---	---	---	---	---	---	---	---
15	133	736	261	---	---	---	---	---	---	---	---	---
16	122	557	299	---	---	---	---	---	---	---	---	---
17	90	448	401	---	---	---	---	---	---	---	---	---
18	73	362	416	---	---	---	---	---	---	---	---	---
19	65	305	---	---	---	---	---	---	---	---	---	---
20	64	265	---	---	---	---	---	---	---	---	---	---
21	79	237	1190	---	---	---	---	---	---	---	---	---
22	83	213	743	---	---	---	---	---	---	---	---	---
23	68	192	498	---	---	---	---	---	---	---	---	---
24	60	178	369	---	---	---	---	---	---	---	---	---
25	54	166	291	---	---	---	---	---	---	---	---	---
26	49	147	241	---	---	---	---	---	---	---	---	---
27	102	136	206	---	---	---	---	---	---	---	---	---
28	864	132	173	---	---	---	---	---	---	---	---	---
29	573	244	143	---	---	---	---	---	---	---	---	---
30	386	345	123	---	---	---	---	---	---	---	---	---
31	299	---	118	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---
CFSM	---	---	---	---	---	---	---	---	---	---	---	---
IN.	---	---	---	---	---	---	---	---	---	---	---	---

CUMBERLAND RIVER BASIN

03421000 COLLINS RIVER NEAR MCMINNVILLE, TN

LOCATION.--Lat 35°42'32", long 85°43'46", Warren County, Hydrologic Unit 05130107, on left bank at downstream side of bridge on U.S. Highway 70S, 1.8 mi downstream from Barren Fork River, 2.5 mi northeast of McMinnville, and at mile 19.5.

DRAINAGE AREA.--640 mi².

PERIOD OF RECORD.--October 1924 to current year. Prior to April 1925 monthly discharge only, published in WSP 1306.

REVISED RECORDS.--WSP 873: 1929, 1932(M), 1934-35, 1936(M), 1937. WSP 1276: 1925-26, 1928(M), 1933, 1936, 1940. WSP 2110: Drainage area.

GAGE.--Data collection platform. Datum of gage is 825.78 ft, Sandy Hook datum. Prior to Oct. 16, 1926, nonrecording gage on upstream side of bridge at same datum.

REMARKS.--No estimeated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1854 is believed to have been about equal to that of Mar. 23, 1929, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 11,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar. 8	2200	*13,300	*15.61	No other peak greater than base discharge.			

Minimum discharge, 129 ft³/s, Sept. 11.

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	174	220	1330	322	1210	1020	809	551	385	255	366	169
2	162	210	985	309	1050	1030	717	848	844	235	297	187
3	159	207	793	295	916	897	643	745	502	205	234	165
4	152	205	1130	284	809	807	595	627	393	204	208	158
5	145	201	2580	269	723	1350	553	559	364	227	189	155
6	143	233	2450	373	645	3800	516	517	397	217	213	150
7	142	236	1860	1760	591	2810	485	475	411	203	298	143
8	136	245	1370	1490	563	8660	455	431	356	192	949	139
9	171	247	1090	1130	520	8870	431	2390	303	184	1620	136
10	200	269	1170	918	501	4420	409	5930	278	177	1150	133
11	182	287	3260	809	532	2830	386	2990	281	178	686	145
12	184	325	2280	1250	549	2100	389	1490	318	177	512	209
13	211	318	1660	1580	516	1660	429	1070	330	174	429	193
14	882	295	1280	1710	487	1360	431	3040	288	166	361	579
15	964	277	1040	4430	487	1170	396	3640	263	157	297	347
16	817	262	877	3720	1270	1020	367	1600	245	155	255	260
17	578	252	799	2370	3960	898	360	1330	235	191	231	438
18	471	241	749	1740	3080	800	356	1020	257	183	214	575
19	413	232	674	1400	2130	726	354	4020	309	169	201	474
20	365	222	609	1420	1630	674	357	1820	322	155	237	358
21	335	215	560	1390	1310	685	3180	1130	314	166	528	277
22	338	206	524	1180	1070	681	2790	861	282	180	420	248
23	362	199	504	1020	903	637	1810	701	295	446	382	240
24	330	192	479	898	805	579	1530	597	331	590	301	278
25	313	190	453	783	732	529	1280	525	284	410	246	275
26	290	197	426	707	663	493	1020	476	258	295	215	251
27	268	651	402	658	619	2080	830	443	246	253	199	232
28	252	7080	379	712	657	2610	701	441	224	261	199	213
29	241	4350	361	2070	---	1480	610	416	210	1270	192	196
30	232	2140	345	1930	---	1140	565	380	210	751	181	178
31	225	---	333	1500	---	944	---	347	---	443	169	---
TOTAL	9837	20404	32752	40427	28928	58760	23754	41410	9735	8869	11979	7501
MEAN	317	680	1057	1304	1033	1895	792	1336	324	286	386	250
MAX	964	7080	3260	4430	3960	8870	3180	5930	844	1270	1620	579
MIN	136	190	333	269	487	493	354	347	210	155	169	133
CFSM	.50	1.06	1.65	2.04	1.61	2.96	1.24	2.09	.51	.45	.60	.39
IN.	.57	1.19	1.90	2.35	1.68	3.42	1.38	2.41	.57	.52	.70	.44

CUMBERLAND RIVER BASIN

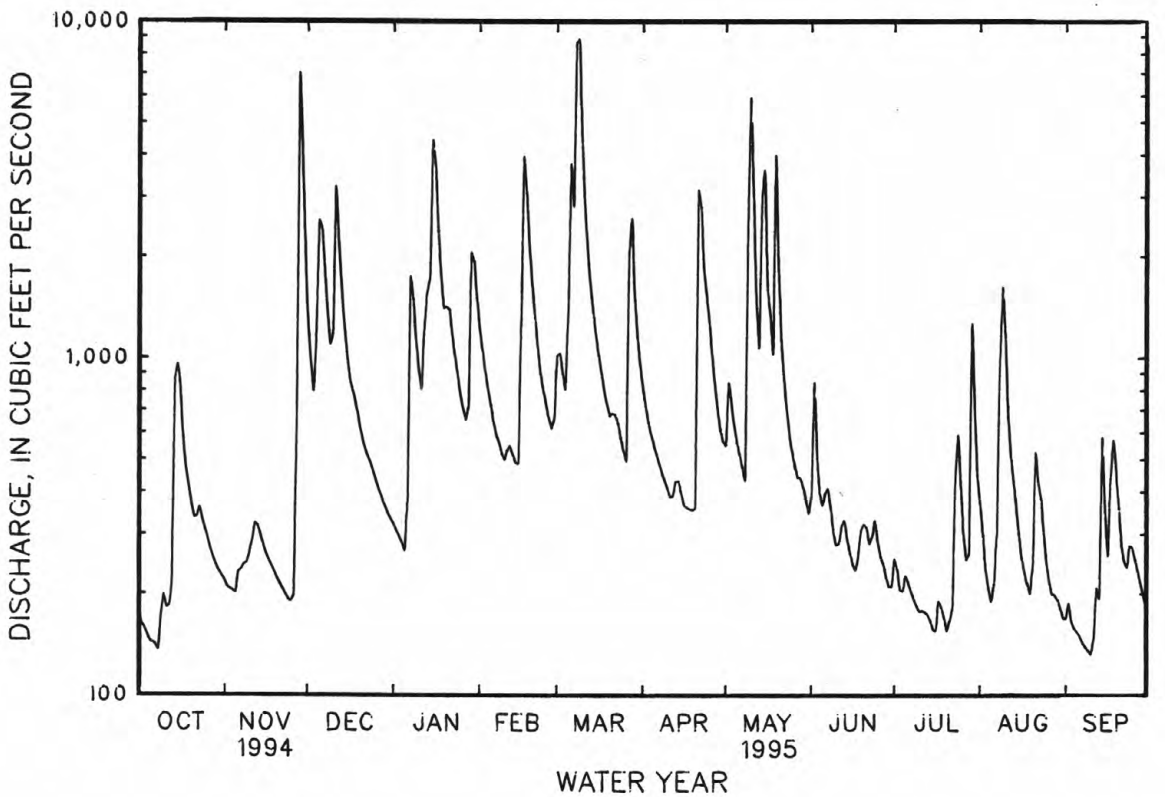
03421000 COLLINS RIVER NEAR MCMINNVILLE, TN--Continued

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

MEAN	312	768	1611	2090	2417	2504	1781	1076	609	427	305	287
MAX	2345	4286	6783	6262	6564	6279	4412	3825	4216	2091	1439	1204
(WY)	1976	1958	1991	1974	1939	1929	1994	1984	1928	1989	1942	1992
MIN	63.5	69.0	107	126	391	619	462	225	85.9	115	76.2	62.9
(WY)	1932	1932	1940	1940	1941	1988	1986	1941	1988	1944	1925	1925

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1925 - 1995	
ANNUAL TOTAL	695432		294356			
ANNUAL MEAN	1905		806		1176	
HIGHEST ANNUAL MEAN					2193	1973
LOWEST ANNUAL MEAN					409	1931
HIGHEST DAILY MEAN	36400	Mar 28	8870	Mar 9	64100	Dec 23 1990
LOWEST DAILY MEAN	136	Oct 8	133	Sep 10	a37	Oct 28 1961
ANNUAL SEVEN-DAY MINIMUM	148	Oct 2	143	Sep 5	50	Sep 24 1925
INSTANTANEOUS PEAK FLOW			13300	Mar 8	b75300	Mar 23 1929
INSTANTANEOUS PEAK STAGE			15.61	Mar 8	39.10	Mar 23 1929
INSTANTANEOUS LOW FLOW			129	Sep 11	35	Sep 21 1930
ANNUAL RUNOFF (CFSM)	2.98		1.26		1.84	
ANNUAL RUNOFF (INCHES)	40.42		17.11		24.97	
10 PERCENT EXCEEDS	4350		1750		2590	
50 PERCENT EXCEEDS	728		431		526	
90 PERCENT EXCEEDS	208		184		111	

a Caused by regulation from highway construction.
b From rating curve extended above 42,000 ft³/s on basis of slope-area measurement of peak flow.



CUMBERLAND RIVER BASIN

03422500 CANEY FORK NEAR ROCK ISLAND, TN

LOCATION.--Lat 35°48'26", long 85°37'44", White County, Hydrologic Unit 05130108, on right bank 180 ft downstream from powerhouse of Tennessee Valley Authority, 0.8 mi downstream from Great Falls Dam, 0.9 mi downstream from Collins River, 1.5 mi northwest of Rock Island, and at mile 90.3.

DRAINAGE AREA.--1,678 mi².

PERIOD OF RECORD.--November 1911 to April 1913, July 1913 to May 1914, August 1914 to September 1995. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 1276: 1934, 1937. WSP 1910: Drainage area.

GAGE.--Data collection platform. Datum of gage is 647.09 ft above sea level. Prior to Mar. 30, 1924, at sites from 80 ft to 0.5 mi upstream at different datums. Apr. 12, 1925, to Sept. 9, 1930, at present site at datum 5.00 ft higher and Sept. 10, 1930, to Sept. 18, 1964, 3.00 ft higher.

REMARKS.--Records good, except for estimated discharges, periods of low flow and rapidly changing stages, which are fair. Flow regulated since Dec. 8, 1916, by Great Falls Lake (station 03422000) (see p. 123). Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1902 reached a stage about 10 ft lower than the flood of Mar. 23, 1929, at a point 8 mi downstream, from profile by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33,500 ft³/s, at 1630 hours Mar. 8, gage height, 20.92 ft; minimum daily, 43 ft³/s, Dec. 31, Jan. 1.

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	e45	426	3710	e43	3500	3380	3360	3440	1790	e76	938	285
2	e45	424	3500	362	3480	3330	3170	3420	1800	e69	445	e63
3	391	451	3440	833	3470	3110	1350	3390	2550	968	553	e63
4	444	313	3200	732	3490	3030	1350	3410	1300	753	505	e63
5	441	e45	3440	854	3460	2570	1380	3360	e69	1090	e69	e64
6	496	e45	3550	1140	3420	3370	1360	3150	1180	841	e68	191
7	611	517	4160	2410	3360	3500	1510	2030	934	845	406	196
8	e47	364	3830	817	3340	22000	984	1540	1460	482	422	e64
9	698	355	3510	3320	3000	18800	997	1800	1580	e69	1530	e64
10	1340	338	3530	3080	2700	9820	954	4980	973	255	1770	e64
11	334	441	7210	3090	1680	7360	824	11600	e70	208	1730	e65
12	490	e45	5370	3470	1300	5000	678	5970	624	253	624	e65
13	499	e45	4620	3490	1290	4610	776	4670	761	211	664	210
14	620	405	3940	5120	1210	4130	675	9960	840	166	1270	1090
15	279	382	3590	15700	1070	3680	815	12900	1250	e70	992	1090
16	533	377	3520	10400	2660	3560	666	7230	1260	e70	702	e64
17	689	386	3480	6950	4350	3510	643	6690	e68	e70	333	e64
18	715	348	3450	5130	7150	3490	719	5160	108	e70	486	1620
19	704	65	3400	4490	5740	3450	837	12200	765	e70	334	464
20	716	e45	3330	5030	4580	3410	1040	7090	719	e70	342	565
21	708	318	3030	4430	4140	3360	2580	4540	848	e70	325	538
22	e45	235	2870	3900	3650	3300	3530	4000	848	98	e66	563
23	e45	276	2350	3570	3510	3030	5750	3530	849	e69	e66	446
24	808	284	966	3490	3510	2930	4360	3510	e67	e70	788	447
25	806	e45	913	3460	3440	2150	4170	3450	e67	e69	497	315
26	693	e45	737	3480	3450	1200	3760	3420	624	e68	e66	323
27	636	59	764	3420	3190	1980	3510	3380	646	e69	e65	327
28	745	4000	708	3410	3380	2810	3490	2970	851	e69	283	276
29	e45	9730	611	3480	---	3370	3460	2410	1050	e69	264	315
30	e45	4530	577	3490	---	3360	3490	1880	1020	e69	199	240
31	347	---	e43	3510	---	3370	---	1870	---	849	434	---
TOTAL	15060	25339	91349	116101	92520	145970	62188	148950	26971	8275	17236	10204
MEAN	486	845	2947	3745	3304	4709	2073	4805	899	267	556	340
MAX	1340	9730	7210	15700	7150	22000	5750	12900	2550	1090	1770	1620
MIN	45	45	43	43	1070	1200	643	1540	67	68	65	63

e Estimated

CUMBERLAND RIVER BASIN

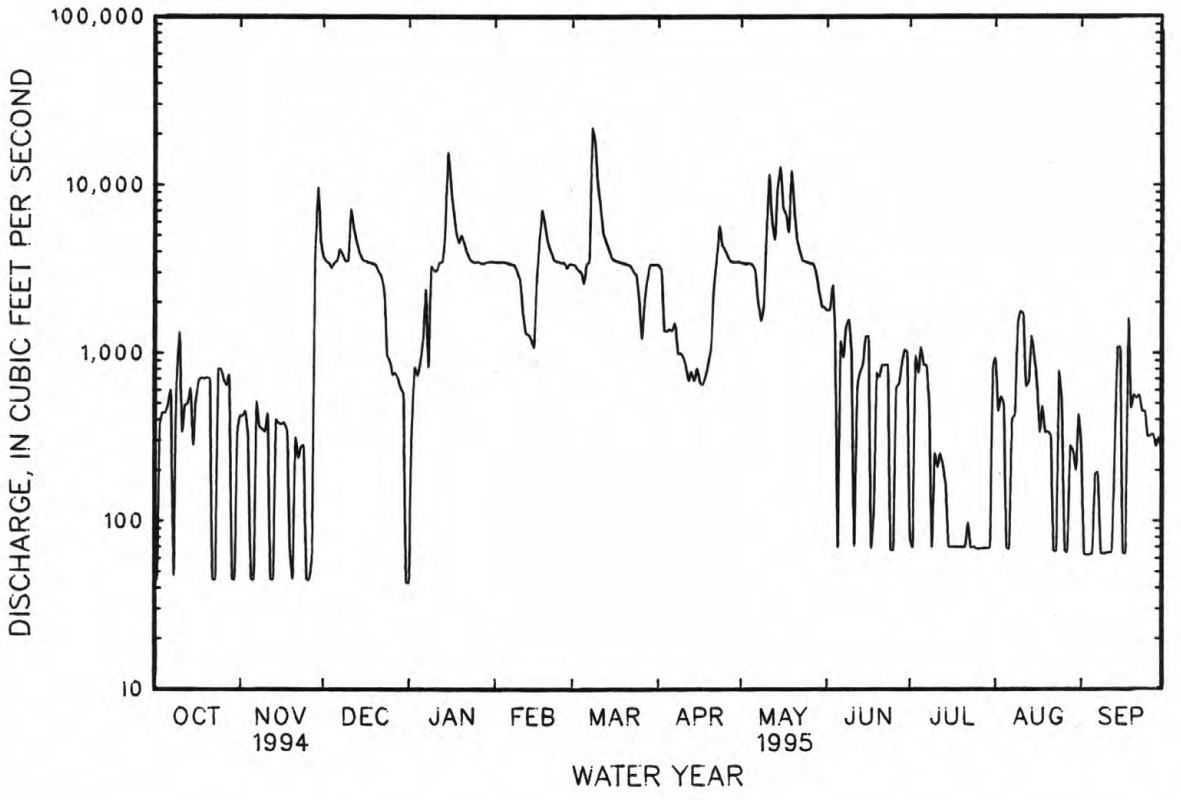
03422500 CANEY FORK NEAR ROCK ISLAND, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1995, BY WATER YEAR (WY)

MEAN	860	1763	4157	5798	6301	6979	5024	2944	1598	1159	968	765
MAX	5017	9575	14860	16700	17030	18730	14920	12020	9810	6799	8810	2901
(WY)	1976	1958	1991	1937	1939	1929	1912	1984	1928	1916	1920	1950
MIN	37.2	40.6	325	359	1055	1229	991	638	83.6	115	79.8	125
(WY)	1954	1954	1964	1981	1934	1988	1986	1988	1988	1968	1976	1968

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1912 - 1995	
ANNUAL TOTAL	1656053		760163			
ANNUAL MEAN	4537		2083		3127	
HIGHEST ANNUAL MEAN					5451	1973
LOWEST ANNUAL MEAN					1112	1981
HIGHEST DAILY MEAN	86900	Feb 11	22000	Mar 8	154000	Mar 23 1929
LOWEST DAILY MEAN	43	Dec 31	43	Dec 31	25	Aug 25 1951
ANNUAL SEVEN-DAY MINIMUM	63	Sep 25	69	Jul 23	32	Oct 19 1971
INSTANTANEOUS PEAK FLOW			33500	Mar 8	a210000	Mar 23 1929
INSTANTANEOUS PEAK STAGE			20.92	Mar 8	b43.60	Mar 23 1929
INSTANTANEOUS LOW FLOW					c25	Aug 25 1951
10 PERCENT EXCEEDS	10100		4350		6720	
50 PERCENT EXCEEDS	1990		973		1770	
90 PERCENT EXCEEDS	119		68		124	

a From rating curve extended above 110,000 ft³/s.
b From floodmarks.
c Also occurred several days August to October 1951.



CUMBERLAND RIVER BASIN

03424730 SMITH FORK AT TEMPERANCE HALL, TN

LOCATION.--Lat 36°05'14", long 85°54'29", Dekalb County, Hydrologic Unit 05130108, on left bank 150 ft downstream from James Slager Memorial bridge on State Highway 264, 0.3 mi northwest of Temperance Hall, and at mile 8.8.

DRAINAGE AREA.--214 mi².

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

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 499.00 ft above sea level.

REMARKS.--No estimasted daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 28	0630	6,330	14.04	Mar. 8	0500	8,700	16.78
Dec. 10	2030	5,250	12.65	May 1	2330	4,070	10.95
Jan. 6	2130	5,880	13.48	May 14	1730	*10,600	*18.77

Minimum discharge, 9.9 ft³/s, Sept. 8.

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	30	33	189	60	270	126	149	540	199	53	34	12
2	28	32	145	59	234	115	139	1310	324	64	32	12
3	27	32	120	55	202	108	131	420	209	55	29	11
4	27	30	575	54	182	105	126	284	318	50	28	11
5	26	30	1060	51	160	619	120	231	198	58	28	11
6	24	70	534	1300	147	662	114	194	151	103	32	11
7	23	113	317	1780	139	621	112	171	134	72	34	10
8	22	73	216	576	133	5980	108	155	118	59	74	10
9	32	60	175	349	118	1500	103	316	101	52	168	11
10	129	97	1530	254	119	715	101	444	90	50	62	11
11	85	146	1530	385	124	465	96	262	141	47	49	11
12	58	111	552	687	117	345	113	209	361	44	35	15
13	76	87	323	402	106	278	127	175	171	41	28	18
14	575	72	229	1210	104	239	110	4430	115	39	23	33
15	272	63	181	1430	730	212	100	1730	89	37	21	52
16	149	57	155	928	1860	196	95	742	76	39	19	41
17	102	53	149	538	1130	179	113	791	67	37	16	102
18	76	50	136	367	585	166	329	419	61	37	15	95
19	63	46	122	294	398	156	226	413	64	35	15	55
20	57	44	111	266	305	151	177	292	244	33	15	41
21	53	40	103	239	251	167	1550	222	133	33	18	33
22	50	39	97	213	209	163	665	182	93	33	23	29
23	49	36	91	190	190	152	369	158	77	38	19	27
24	47	35	85	171	170	141	374	140	68	45	16	25
25	42	33	79	155	154	129	280	194	70	54	15	24
26	39	34	73	146	146	123	228	396	81	52	14	26
27	36	934	69	134	140	174	196	174	80	45	14	27
28	33	2830	65	184	136	257	177	201	66	88	13	26
29	33	635	64	1040	---	198	158	220	58	60	13	24
30	32	295	61	498	---	175	150	154	54	44	12	22
31	32	---	61	338	---	159	---	126	---	38	12	---
TOTAL	2327	6210	9197	14353	8559	14776	6836	15695	4011	1535	926	836
MEAN	75.1	207	297	463	306	477	228	506	134	49.5	29.9	27.9
MAX	575	2830	1530	1780	1860	5980	1550	4430	361	103	168	102
MIN	22	30	61	51	104	105	95	126	54	33	12	10
CFSM	.35	.97	1.39	2.16	1.43	2.23	1.06	2.37	.62	.23	.14	.13
IN.	.40	1.08	1.60	2.50	1.49	2.57	1.19	2.73	.70	.27	.16	.15

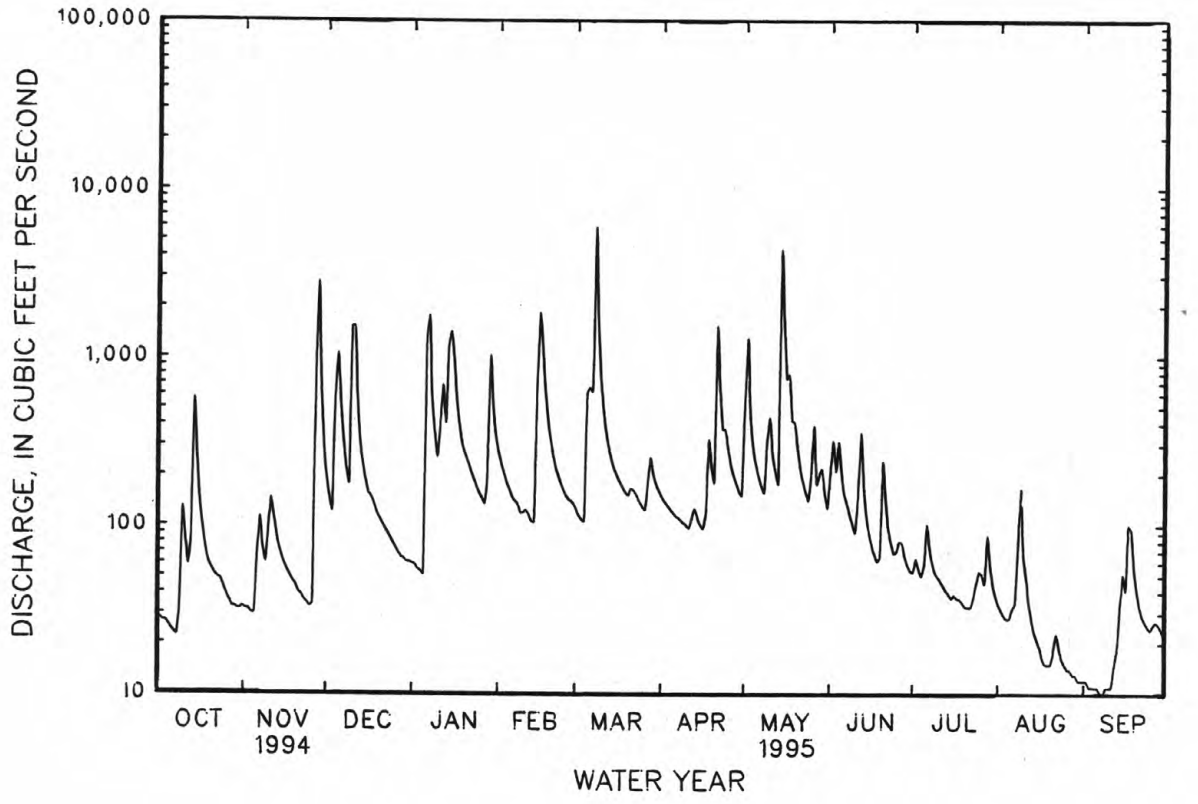
CUMBERLAND RIVER BASIN

03424730 SMITH FORK AT TEMPERANCE HALL, TN--Continued

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

MEAN	65.6	185	615	579	523	773	457	238	122	163	70.4	103
MAX	130	411	811	767	1190	1516	1095	506	185	460	185	389
(WY)	1993	1993	1992	1994	1994	1994	1994	1995	1994	1992	1992	1992
MIN	21.0	37.2	297	463	212	477	158	61.4	52.7	49.5	22.8	26.8
(WY)	1994	1992	1995	1995	1993	1995	1992	1992	1993	1995	1993	1991

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1990 - 1995	
ANNUAL TOTAL	169576		85261			
ANNUAL MEAN	465		234		326	
HIGHEST ANNUAL MEAN					488	1994
LOWEST ANNUAL MEAN					234	1995
HIGHEST DAILY MEAN	10500	Mar 27	5980	Mar 8	10500	Mar 27 1994
LOWEST DAILY MEAN	20	Sep 16	10	Sep 7	10	Sep 7 1995
ANNUAL SEVEN-DAY MINIMUM	23	Sep 12	11	Sep 3	11	Sep 3 1995
INSTANTANEOUS PEAK FLOW			10600	May 14	16100	Mar 27 1994
INSTANTANEOUS PEAK STAGE			18.77	May 14	23.41	Mar 27 1994
INSTANTANEOUS LOW FLOW			9.9	Sep 8	9.9	Sep 8 1995
ANNUAL RUNOFF (CFSM)	2.17		1.09		1.53	
ANNUAL RUNOFF (INCHES)	29.48		14.82		20.72	
10 PERCENT EXCEEDS	1130		536		664	
50 PERCENT EXCEEDS	113		108		107	
90 PERCENT EXCEEDS	32		24		22	



CUMBERLAND RIVER BASIN

03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN

LOCATION.--Lat 36°17'47", long 86°39'28", Davidson County, Hydrologic Unit 05130202, at right bank in powerhouse, at Old Hickory Dam, 2.0 mi west of Hendersonville, and at mile 216.2.

DRAINAGE AREA.--11,673 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1931 to September 1942, October 1947 to current year. Prior to July 1953, published as "at dam 3, near Old Hickory". July 1953 to September 1986 published as "below Old Hickory".

GAGE.--Datum of gage is sea level.

REMARKS.--Flow regulated by six lakes or reservoirs (see p. 122).

COOPERATION.--Records provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 173,000 ft³/s, Jan. 29, 1937; maximum gage height, 438.80 ft, Mar. 14, 1975; minimum daily discharge, 86 ft³/s, Aug. 15, 1936; minimum gage height since filling of Cheatham Lake on Oct. 1, 1956, 383.49 ft, Sept. 10, 1962, at present datum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1793, 437.4 ft Dec. 31, 1926, at present datum, from profile by U.S. Army Corps of Engineers, discharge, 200,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 71,400 ft³/s, Mar. 8; minimum daily, 3,600 ft³/s, May 8.

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	8330	4340	24600	6340	7690	14200	7310	9380	23500	13500	9590	10600
2	7200	4580	25200	3820	9130	13000	7670	11200	26100	12600	13100	9630
3	5080	4320	19800	4350	14300	13000	7530	15300	34200	8550	15200	8490
4	6150	6220	17600	4280	17400	12900	7780	15000	17100	5800	12500	8490
5	5880	7600	21900	10400	14900	12700	8040	7900	13800	9660	8430	8970
6	4590	6680	18400	21200	10200	13100	7070	4820	11700	14100	8320	8990
7	5880	6690	19700	44000	9560	20300	5700	4330	13400	13800	6830	10600
8	5900	5110	19400	33600	8110	71400	5700	3600	14000	12900	11000	9080
9	4550	7990	18500	17000	6920	67400	5160	13800	15800	12400	13400	7930
10	5040	8280	20300	10300	8640	54200	7580	14900	13800	7660	12600	6800
11	7030	8820	26700	6560	7760	42200	10200	16400	12200	8930	12100	8420
12	11900	9750	28900	8900	4420	37600	10800	13000	10400	9850	12600	10000
13	14500	10000	19700	16400	4540	27800	10200	12100	10800	18400	10200	9310
14	15300	7360	19400	23000	4370	29100	9620	21200	9830	21300	9590	9340
15	8950	6740	21000	32500	19700	27100	10100	46000	9580	14000	10200	9280
16	8600	9530	21400	34200	34400	25200	7570	34000	9420	14700	14200	10500
17	7560	12600	19500	26000	31300	27600	5720	34500	9520	8930	18900	8780
18	5920	13100	16800	25400	29800	27800	6650	43400	8680	7810	18700	8470
19	5170	11300	12200	28300	30500	21200	8540	58100	8320	10300	14900	8520
20	5550	8800	11100	28400	27900	22200	9990	53600	10400	13900	15400	8260
21	5960	6870	13600	28400	27900	23100	17400	49600	12300	12400	14200	7940
22	10000	5390	17100	17400	29600	23100	21100	37100	12500	11500	10700	6800
23	7060	5250	18000	18300	29900	21300	16100	31300	14500	8160	10100	6780
24	3930	7220	14600	14900	27300	15800	9850	32100	11600	8770	9880	6800
25	4480	7140	10900	13400	25400	16600	10600	31700	10900	8720	8990	7330
26	5860	7850	7300	15500	22700	11300	13500	31700	9250	15200	8960	7370
27	5780	11300	7280	15500	14800	11900	12300	31500	9870	16300	5770	7330
28	6220	41300	10100	12700	15000	8580	12800	29900	9870	17200	7570	7850
29	6410	26700	13300	10800	---	5900	11100	30600	9620	14500	11900	7330
30	4410	23000	13000	11700	---	5820	9250	34500	10200	11700	10600	6810
31	4350	---	10000	10900	---	6680	---	27800	---	8690	10500	---
TOTAL	213540	301830	537280	554450	494140	730080	292930	800330	393160	372230	356930	252800
MEAN	6888	10060	17330	17890	17650	23550	9764	25820	13110	12010	11510	8427
MAX	15300	41300	28900	44000	34400	71400	21100	58100	34200	21300	18900	10600
MIN	3930	4320	7280	3820	4370	5820	5160	3600	8320	5800	5770	6780

CUMBERLAND RIVER BASIN

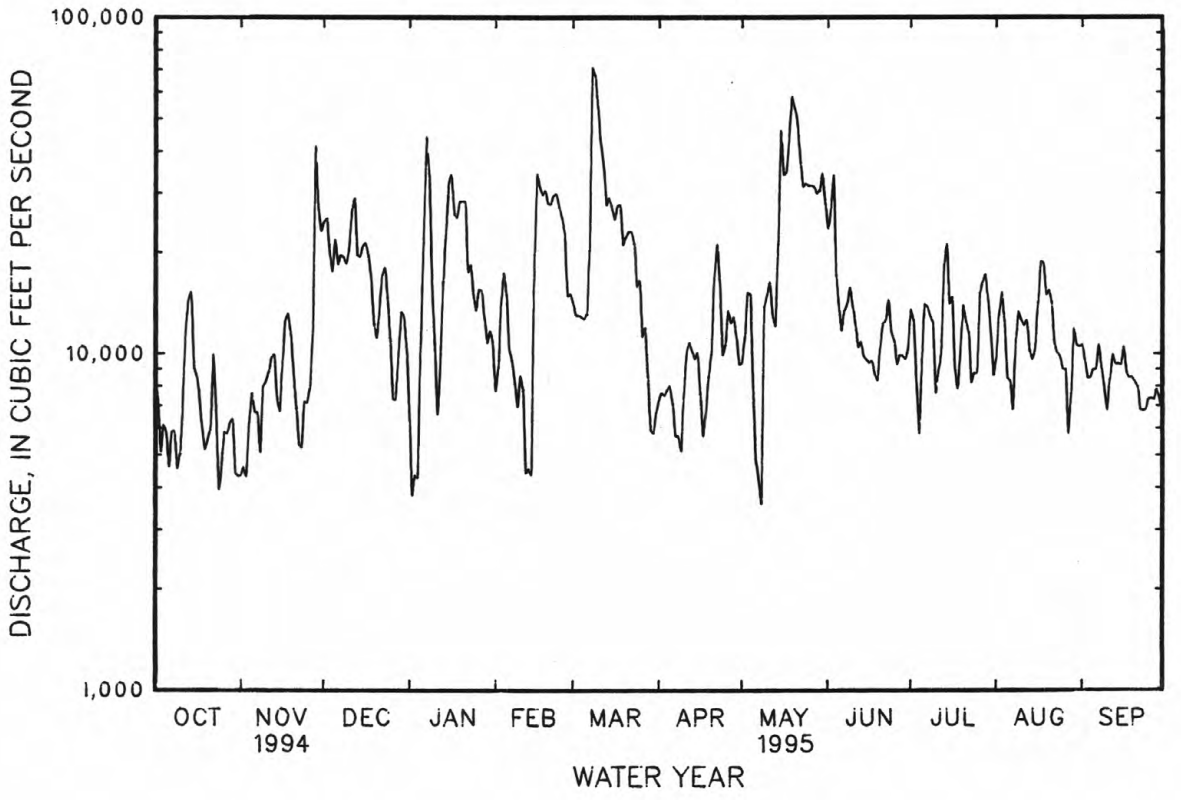
03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1995, BY WATER YEAR (WY)

MEAN	9347	12570	22920	29160	28090	31830	29330	20580	15000	12740	11930	10020
MAX	29430	29530	43590	79580	61700	73880	74400	65100	37840	28410	21400	27600
(WY)	1990	1980	1979	1974	1957	1975	1994	1984	1973	1967	1982	1979
MIN	2660	3449	3974	4656	8524	6778	6963	5465	6048	4211	4991	2723
(WY)	1969	1981	1981	1981	1981	1981	1986	1988	1988	1974	1975	1968

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		*WATER YEARS 1957 - 1995	
ANNUAL TOTAL	10259090		5299700			
ANNUAL MEAN	28110		14520		19420	
HIGHEST ANNUAL MEAN					28560	1974
LOWEST ANNUAL MEAN					8780	1988
HIGHEST DAILY MEAN	103000	Mar 28	71400	Mar 8	146000	Mar 14 1975
LOWEST DAILY MEAN	3930	Oct 24	3600	May 8	200	Nov 3 1957
ANNUAL SEVEN-DAY MINIMUM	4950	Oct 28	4950	Oct 28	1070	Oct 28 1969
10 PERCENT EXCEEDS	71200		28400		41400	
50 PERCENT EXCEEDS	15400		10900		14000	
90 PERCENT EXCEEDS	6670		5890		5210	

* Regulated period only.



CUMBERLAND RIVER BASIN

03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1979 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1979 to current year.
pH: April 1979 to current year.
WATER TEMPERATURE: April 1979 to current year.
DISSOLVED OXYGEN: April 1979 to current year.
TURBIDITY: October 1992 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1979.

REMARKS.--Flow regulated by Old Hickory Dam and other reservoirs above station. Periods of missing record were due to instrument malfunctions. Supersaturation of dissolved oxygen may occur due to local hydraulic conditions.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 262 microsiemens, Apr. 15, Dec. 2, 1988; minimum, 137 microsiemens, Mar. 14, 1994.
pH: Maximum, 9.8 units, Mar. 26, 1988; minimum, 6.4 units, July 28, 1991, July 24, 25, 26, 1993.
WATER TEMPERATURE: Maximum, 27.6°C, Aug. 8, 1988; minimum, 2.1°C, Dec. 24, 1989.
DISSOLVED OXYGEN: Maximum, 16.0 mg/L, March 25, 1994; minimum, 2.9 mg/L, Sept. 5, 1988, July 8, 1993.
TURBIDITY: Maximum recorded, 79 NTU, Feb. 11, 1994, may have been higher during period of missing record; minimum, 2 NTU, June 13, 14, 15, Aug. 20, 1995.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 237 microsiemens, Feb. 21, Mar. 8, 9; minimum, 165 microsiemens, Oct. 7, 8, 13.
PH: Maximum, 8.7 units, Apr. 3; minimum, 6.7 units, Jan. 6.
WATER TEMPERATURE: Maximum, 27.1°C, Aug. 4; minimum, 3.3°C, Feb. 13.
DISSOLVED OXYGEN: Maximum, 13.3 mg/L, Mar. 11; minimum, 5.4 mg/L, June 20, Sept. 17.
TURBIDITY: Maximum recorded, 62 NTU, Mar. 10; minimum, 2 NTU, June 13, 14, 15, Aug. 20.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), 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	170	167	169	180	178	179	183	182	182	197	196	197
2	170	168	169	181	177	179	183	180	181	197	195	196
3	171	168	169	182	178	180	193	183	188	197	196	196
4	170	166	168	183	178	181	195	193	194	197	195	196
5	169	166	167	185	182	184	194	189	192	196	194	195
6	169	167	168	188	184	186	190	188	189	195	190	192
7	169	165	167	191	187	189	189	187	188	192	189	191
8	168	165	167	192	190	191	189	187	188	190	187	188
9	168	166	167	191	190	190	191	189	190	191	188	190
10	169	166	167	192	190	191	194	191	192	188	187	187
11	168	166	167	192	189	190	200	194	197	188	185	187
12	168	166	167	189	188	189	203	200	201	187	184	185
13	168	165	166	188	185	187	203	199	200	186	183	185
14	168	166	167	186	184	184	207	203	205	191	185	187
15	169	167	168	185	184	184	206	204	205	203	191	195
16	170	167	168	185	184	185	209	204	206	211	202	204
17	170	167	168	185	184	185	217	208	212	222	211	219
18	171	166	168	187	184	185	217	214	215	222	216	220
19	170	167	168	188	186	187	214	212	214	216	212	214
20	173	167	171	190	188	189	213	210	211	215	209	213
21	175	172	174	190	188	189	211	208	210	209	203	205
22	177	173	174	190	189	190	208	205	207	205	203	204
23	180	176	179	190	189	190	205	204	205	205	202	203
24	181	176	178	190	189	190	206	204	205	205	203	204
25	178	175	177	190	188	189	207	204	205	205	203	204
26	179	176	177	190	188	189	206	205	205	206	205	206
27	179	175	177	188	179	185	206	204	205	206	204	205
28	179	176	177	184	179	182	204	203	204	206	204	205
29	179	176	178	183	180	182	204	201	203	208	206	207
30	179	176	177	184	182	183	201	200	200	206	205	206
31	179	176	178	---	---	---	199	196	198	205	204	205
MONTH	181	165	171	192	177	186	217	180	200	222	183	200

CUMBERLAND RIVER BASIN

03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), 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	205	204	205	223	221	222	206	199	203	206	204	205
2	207	205	206	224	221	223	206	199	202	210	206	208
3	206	202	204	224	221	223	204	199	201	213	210	211
4	202	201	201	223	221	222	205	199	202	216	213	215
5	203	201	202	224	221	223	205	200	202	216	214	215
6	204	201	202	228	223	224	205	202	203	215	214	215
7	205	202	203	227	222	225	206	202	203	215	214	215
8	206	204	205	237	224	229	206	201	204	215	214	214
9	208	205	207	237	219	227	206	202	204	214	212	213
10	210	206	208	220	213	216	208	203	205	212	211	211
11	214	209	212	223	218	221	208	202	205	214	211	213
12	215	213	214	229	221	225	210	205	206	214	213	214
13	216	213	215	229	217	223	210	206	208	216	214	215
14	217	214	216	218	202	210	210	205	208	216	214	215
15	218	214	216	207	197	201	211	205	207	215	209	212
16	217	214	215	200	195	197	211	206	209	221	208	215
17	218	214	216	207	195	202	211	207	209	216	206	211
18	218	213	214	209	203	207	---	---	---	206	195	199
19	227	218	223	211	203	208	---	---	---	206	200	204
20	233	227	229	209	203	207	208	206	207	213	205	208
21	237	232	234	209	204	206	207	204	206	211	201	206
22	233	229	232	209	203	205	204	199	201	204	195	200
23	230	223	227	206	201	203	201	199	200	201	197	199
24	224	212	217	206	200	202	199	195	196	203	197	199
25	215	213	214	206	200	203	197	196	197	202	197	199
26	217	214	216	205	199	202	197	196	197	199	190	195
27	219	216	218	205	199	203	198	197	197	194	189	192
28	222	219	221	205	202	204	199	197	198	195	188	191
29	---	---	---	205	200	203	200	198	199	195	188	192
30	---	---	---	205	200	202	205	200	202	193	188	191
31	---	---	---	205	200	203	---	---	---	193	188	191
MONTH	237	201	214	237	195	212	211	195	203	221	188	206

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	192	187	190	203	202	202	196	194	195	201	199	199
2	194	189	192	202	201	202	196	193	194	200	196	198
3	196	189	193	202	201	201	194	190	193	198	196	197
4	197	192	195	202	200	201	194	193	193	199	196	198
5	198	194	196	202	201	201	196	194	194	198	195	196
6	198	193	196	201	198	200	195	193	194	199	196	198
7	---	---	---	199	197	198	196	194	195	199	197	198
8	---	---	---	197	195	197	197	194	195	199	196	197
9	205	201	204	197	195	196	198	194	196	197	196	197
10	209	205	207	196	194	194	198	194	196	199	197	198
11	210	207	209	195	194	194	198	193	195	200	198	199
12	211	208	210	197	194	195	197	194	195	199	197	198
13	210	201	206	197	195	196	199	195	196	199	196	197
14	202	201	202	196	194	195	197	195	197	197	193	196
15	202	200	201	196	192	194	200	196	198	196	193	195
16	201	200	201	194	192	192	201	198	200	196	192	194
17	201	200	200	193	190	191	200	198	199	195	190	193
18	201	200	201	192	189	190	200	199	199	193	190	191
19	201	200	201	191	189	190	202	199	200	193	190	192
20	202	200	201	192	189	191	201	198	200	193	190	191
21	204	202	203	192	190	191	201	198	199	191	189	190
22	204	203	203	194	190	191	201	197	199	193	189	190
23	206	204	205	194	190	192	201	200	200	192	190	191
24	206	204	205	195	191	192	201	199	200	191	189	190
25	204	202	203	194	193	193	201	200	200	191	188	190
26	203	200	202	195	193	193	201	200	201	190	188	189
27	202	200	201	195	193	194	202	200	200	190	186	188
28	202	201	202	195	194	194	201	200	201	191	188	189
29	202	201	202	195	194	194	202	200	201	191	189	191
30	202	202	202	195	194	195	202	200	200	193	191	192
31	---	---	---	196	195	195	201	200	201	---	---	---
MONTH	211	187	201	203	189	195	202	190	198	201	186	194

CUMBERLAND RIVER BASIN

03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN--Continued

PH (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	8.0	7.4	7.3	7.1	7.5	7.2	7.4	7.4	7.3	7.3	7.6	7.4
2	7.5	7.7	7.3	7.1	7.2	7.1	7.4	7.3	7.3	7.3	7.6	7.5
3	7.6	7.3	7.3	7.2	7.1	7.0	7.4	7.3	7.7	7.3	7.8	7.5
4	8.1	7.8	7.4	7.1	7.1	7.1	7.4	7.3	7.7	7.6	7.9	7.7
5	8.2	7.7	7.4	7.3	7.2	7.0	7.5	7.4	7.8	7.7	8.0	7.8
6	7.8	7.6	7.5	7.2	7.2	6.9	7.5	6.7	7.9	7.8	7.9	7.4
7	8.4	7.5	7.6	7.4	7.2	7.1	7.5	6.7	7.9	7.8	8.0	7.7
8	8.2	7.6	7.7	7.5	7.2	7.1	7.4	7.4	7.9	7.7	7.9	7.7
9	8.0	7.2	7.7	7.5	7.2	7.1	7.4	7.2	7.9	7.7	7.8	7.4
10	7.5	7.3	7.6	7.5	7.3	7.2	7.3	7.2	7.9	7.8	7.5	7.4
11	7.9	7.4	7.6	7.5	7.3	7.2	7.3	7.1	7.9	7.8	7.5	7.4
12	7.7	7.5	7.6	7.5	7.3	7.2	7.4	7.1	7.9	7.8	7.5	7.4
13	7.6	7.4	7.6	7.5	7.2	7.1	7.3	7.3	8.0	7.8	7.5	7.4
14	7.5	7.4	7.6	7.5	7.2	7.1	7.4	7.0	8.0	7.8	7.5	7.4
15	7.5	7.3	7.5	7.4	7.2	7.1	7.5	7.0	8.0	7.2	7.4	7.4
16	7.7	7.3	7.4	7.3	7.2	6.8	7.4	7.3	8.0	6.9	7.4	7.3
17	7.7	7.4	7.4	7.3	7.2	7.1	7.4	7.0	7.9	7.7	7.4	7.3
18	7.6	7.4	7.4	7.1	7.2	7.1	7.3	7.0	7.8	7.7	7.7	7.4
19	7.5	7.4	7.5	7.3	7.2	7.1	7.3	7.0	7.7	7.6	7.7	7.5
20	7.4	7.2	7.5	7.4	7.1	7.1	7.4	7.1	7.7	7.2	7.7	7.2
21	7.3	7.1	7.6	7.5	7.1	7.1	7.4	7.3	7.7	7.5	7.8	7.3
22	7.4	7.2	7.6	7.4	7.2	7.1	7.4	7.3	7.7	7.6	8.0	7.7
23	7.3	7.0	7.6	7.4	7.3	7.1	7.4	7.3	7.7	7.3	8.0	7.7
24	7.4	7.0	7.7	7.4	7.4	7.3	7.3	7.3	7.6	7.5	8.1	7.6
25	7.3	7.1	7.7	7.5	7.4	7.4	7.3	7.3	7.5	7.5	8.2	7.8
26	7.3	7.1	7.7	7.5	7.5	7.3	7.4	7.3	7.6	7.4	8.2	8.0
27	7.6	7.2	7.7	7.5	7.4	7.3	7.4	7.3	7.5	7.4	8.4	8.0
28	7.5	7.3	7.7	7.6	7.4	7.3	7.4	7.3	7.5	7.4	8.4	8.2
29	7.5	7.3	7.6	7.5	7.4	7.3	7.3	7.3	---	---	8.5	8.2
30	7.4	7.3	7.5	7.4	7.4	7.3	7.4	7.3	---	---	8.5	8.3
31	7.4	7.2	---	---	7.5	7.4	7.3	7.2	---	---	8.5	8.1
MONTH	8.4	7.0	7.7	7.1	7.5	6.8	7.5	6.7	8.0	6.9	8.5	7.2
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.6	8.3	8.1	7.5	7.7	7.2	7.1	6.9	7.5	7.2	7.4	7.3
2	8.6	8.4	8.0	7.6	7.8	7.4	7.4	7.0	7.5	7.2	7.6	7.3
3	8.7	8.4	8.0	7.7	7.7	7.5	7.3	7.0	8.2	7.2	7.6	7.4
4	8.6	8.1	7.9	7.7	7.7	7.4	7.3	7.0	8.4	7.3	7.6	7.3
5	8.6	8.3	8.0	7.7	7.8	7.1	7.7	7.1	8.0	7.2	7.6	7.3
6	8.5	8.4	8.1	7.6	7.6	7.1	7.4	7.0	7.8	7.1	7.6	7.3
7	8.5	8.2	8.1	7.8	---	---	7.4	7.0	7.6	7.1	7.6	7.3
8	8.4	8.2	7.8	7.3	---	---	7.4	7.2	7.6	7.2	7.6	7.3
9	8.5	8.2	7.6	7.3	8.1	7.3	7.7	7.1	7.7	7.0	7.5	7.4
10	8.4	8.1	7.7	7.4	7.7	7.4	7.3	7.1	7.6	7.2	7.5	7.3
11	8.3	8.0	7.4	7.3	7.6	7.3	7.4	7.0	7.5	7.1	7.9	7.3
12	8.2	7.9	7.8	7.4	7.5	7.2	7.2	7.0	7.6	7.1	8.2	7.5
13	8.0	7.8	7.8	7.4	7.8	7.5	7.6	6.9	7.5	7.1	7.8	7.3
14	8.3	7.8	7.7	7.1	7.8	7.4	7.6	7.1	7.3	7.1	7.6	7.3
15	8.5	8.1	7.7	7.4	7.6	7.4	7.8	7.0	7.3	7.0	7.6	7.3
16	8.4	7.9	7.6	7.3	7.9	7.4	7.5	7.2	7.3	7.0	8.1	7.3
17	8.1	7.8	7.6	7.3	7.6	7.4	7.3	7.0	7.6	7.1	7.6	7.2
18	---	---	7.5	7.0	7.6	7.2	7.3	7.1	7.5	7.1	7.5	7.3
19	---	---	7.6	7.1	7.2	7.0	7.4	7.1	7.4	7.1	8.2	7.4
20	8.3	7.7	7.6	7.3	7.3	7.1	7.5	7.1	7.5	7.1	7.7	7.4
21	8.1	7.6	7.6	7.3	7.6	7.1	7.4	7.0	7.5	7.2	7.6	7.4
22	8.0	7.8	7.5	7.3	7.6	7.1	7.6	7.2	7.4	7.2	7.6	7.2
23	8.1	8.0	7.6	7.3	7.4	7.1	7.4	7.1	7.6	7.3	7.8	7.4
24	8.1	7.9	7.6	7.3	7.4	7.1	7.4	7.1	7.7	7.2	8.0	7.6
25	8.2	8.0	7.7	7.4	7.5	7.1	7.4	7.2	7.5	7.3	7.9	7.5
26	8.7	8.0	7.7	7.3	7.5	7.1	8.0	7.3	7.6	7.3	7.7	7.4
27	8.5	7.8	7.6	7.3	7.3	7.1	8.2	7.3	7.5	7.3	8.0	7.6
28	8.3	7.8	7.6	7.2	7.5	7.1	8.0	7.4	7.4	7.3	8.0	7.7
29	8.3	7.9	7.6	7.4	7.3	7.1	8.1	7.4	7.6	7.4	8.1	7.5
30	8.2	7.6	7.9	7.4	7.1	6.9	7.8	7.4	7.6	7.4	8.2	7.7
31	---	---	7.6	7.3	---	---	7.5	7.3	7.5	7.3	---	---
MONTH	8.7	7.6	8.1	7.0	8.1	6.9	8.2	6.9	8.4	7.0	8.2	7.2

CUMBERLAND RIVER BASIN

03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN--Continued

TEMPERATURE, WATER (DEG. C), 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	20.9	20.5	20.7	16.7	16.2	16.5	12.3	12.0	12.1	9.1	9.0	9.1
2	20.8	20.4	20.7	16.3	16.1	16.2	12.0	11.7	11.9	9.0	8.4	8.7
3	20.8	20.4	20.6	16.3	16.0	16.2	12.0	11.9	12.0	8.5	8.1	8.4
4	20.8	20.3	20.5	16.4	16.2	16.3	12.2	12.0	12.1	8.1	7.5	7.8
5	20.8	20.4	20.6	16.5	16.3	16.4	12.4	12.2	12.3	7.5	6.9	7.2
6	20.8	20.4	20.6	16.5	16.2	16.4	12.5	12.3	12.4	6.9	6.6	6.8
7	21.3	20.4	20.8	16.2	16.0	16.1	12.5	12.2	12.4	6.9	6.5	6.6
8	21.1	20.6	20.9	16.2	15.9	16.1	12.2	12.0	12.0	7.0	6.8	7.0
9	21.0	19.9	20.5	16.4	16.2	16.3	12.1	12.0	12.0	6.8	6.7	6.7
10	20.1	19.6	19.9	16.4	16.0	16.2	12.1	11.7	11.9	6.8	6.5	6.7
11	19.7	19.4	19.5	16.0	15.8	15.9	11.7	11.1	11.5	6.9	6.7	6.8
12	19.5	19.1	19.3	15.9	15.8	15.9	11.2	10.8	11.0	7.4	6.9	7.2
13	19.1	18.6	18.8	15.9	15.7	15.8	10.8	10.5	10.6	7.7	7.2	7.4
14	18.6	18.5	18.6	16.1	15.7	15.9	10.5	10.3	10.4	8.2	7.7	7.9
15	18.8	18.4	18.6	16.1	15.9	16.0	10.5	10.3	10.4	8.6	8.2	8.5
16	19.2	18.5	18.8	15.9	15.8	15.8	10.5	10.4	10.5	8.7	8.5	8.6
17	19.0	18.8	18.9	15.8	15.6	15.7	10.6	10.4	10.5	9.0	8.6	8.8
18	18.9	18.7	18.8	15.6	15.3	15.5	10.4	10.0	10.3	9.2	8.9	9.0
19	18.8	18.7	18.7	15.3	15.0	15.1	10.1	9.8	10.0	9.4	9.2	9.3
20	18.9	18.7	18.8	15.1	15.0	15.1	10.0	9.7	9.9	9.3	8.5	9.0
21	18.9	18.5	18.7	15.1	14.9	15.0	10.0	9.7	9.9	8.5	7.8	8.1
22	19.1	18.8	19.0	15.0	14.3	14.7	10.1	9.9	10.0	7.8	7.3	7.5
23	19.0	18.5	18.7	14.3	13.6	14.0	10.0	10.0	10.0	7.4	7.2	7.3
24	18.8	18.2	18.5	13.6	13.3	13.4	10.0	9.7	9.8	7.2	6.9	7.0
25	18.7	18.1	18.5	13.3	12.8	13.0	9.7	9.4	9.6	7.2	6.8	7.0
26	18.1	17.5	17.8	12.8	12.7	12.7	9.5	9.3	9.4	7.2	6.9	7.1
27	17.7	17.3	17.4	12.8	12.6	12.7	9.4	9.2	9.3	7.2	7.0	7.1
28	17.3	17.0	17.1	12.9	12.5	12.7	9.2	9.0	9.1	7.6	7.2	7.4
29	17.2	16.9	17.0	12.9	12.7	12.8	9.1	8.9	9.0	7.5	7.3	7.4
30	16.9	16.8	16.8	12.7	12.2	12.5	9.0	8.8	8.9	7.3	6.9	7.1
31	17.0	16.7	16.8	---	---	---	9.1	9.0	9.0	6.9	6.5	6.8
MONTH	21.3	16.7	19.1	16.7	12.2	15.1	12.5	8.8	10.7	9.4	6.5	7.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.8	6.6	6.7	8.5	8.2	8.4	13.6	13.0	13.4	16.9	16.4	16.7
2	7.1	6.8	7.0	8.2	7.8	8.0	13.7	13.4	13.5	16.9	16.6	16.7
3	7.1	6.9	7.0	7.8	7.7	7.7	14.5	13.3	13.9	17.4	16.5	16.8
4	6.9	6.5	6.7	8.0	7.6	7.8	14.4	13.3	13.7	17.1	16.9	17.0
5	6.5	6.2	6.3	8.3	8.0	8.2	14.5	13.7	14.2	17.0	16.7	16.8
6	6.2	5.6	5.9	8.6	8.3	8.4	14.8	14.1	14.5	17.4	16.6	17.0
7	5.8	5.5	5.7	9.3	8.6	9.0	14.9	14.3	14.6	18.0	17.1	17.6
8	5.6	4.8	5.2	9.2	8.6	8.9	16.1	14.5	15.1	18.8	17.5	18.0
9	4.9	4.6	4.7	8.8	8.3	8.6	16.7	14.9	15.9	18.7	18.2	18.5
10	4.6	4.3	4.5	8.9	8.6	8.7	16.5	15.3	16.0	19.1	17.9	18.4
11	4.5	4.1	4.4	8.9	8.5	8.7	16.9	15.6	16.4	18.2	17.7	17.9
12	4.1	3.6	3.9	9.2	8.5	8.8	16.6	15.7	16.2	18.8	18.0	18.5
13	3.8	3.3	3.7	10.0	9.1	9.5	16.2	15.4	15.6	19.5	18.3	18.8
14	3.7	3.5	3.6	10.3	9.5	9.9	16.8	15.5	16.1	19.5	18.2	19.0
15	4.1	3.6	3.9	10.3	10.0	10.2	17.7	16.2	16.9	19.7	19.0	19.4
16	5.0	4.1	4.5	10.9	10.3	10.6	17.3	16.5	16.8	19.6	19.1	19.3
17	5.6	5.0	5.4	11.4	10.5	10.9	17.2	16.7	16.9	19.1	18.5	18.7
18	5.9	5.4	5.6	11.6	11.0	11.2	---	---	---	18.8	18.1	18.5
19	6.0	5.7	5.8	11.7	11.3	11.5	---	---	---	18.1	16.7	17.2
20	6.3	5.9	6.1	11.7	11.4	11.5	18.7	17.0	17.8	17.9	17.1	17.4
21	6.7	6.3	6.5	11.9	11.4	11.7	18.3	17.2	17.8	17.6	17.3	17.5
22	6.8	6.2	6.5	12.7	11.8	12.1	17.8	17.1	17.3	17.7	17.2	17.4
23	7.3	6.7	7.0	12.6	12.3	12.5	17.7	17.4	17.6	17.5	17.0	17.3
24	7.7	7.2	7.5	13.2	12.5	12.8	17.4	16.6	16.8	17.3	16.6	17.0
25	8.0	7.4	7.7	13.4	12.9	13.1	17.0	16.6	16.8	17.7	17.0	17.2
26	8.2	7.7	8.0	13.6	13.0	13.3	17.8	16.5	17.1	18.0	17.5	17.8
27	8.5	8.1	8.3	13.7	13.3	13.5	17.4	16.3	16.8	18.2	17.8	18.0
28	8.5	8.5	8.5	13.4	13.1	13.3	17.0	16.2	16.5	18.2	17.7	17.9
29	---	---	---	13.7	13.1	13.4	17.0	16.4	16.7	17.9	17.5	17.7
30	---	---	---	13.5	13.2	13.4	17.0	16.6	16.8	18.8	17.3	17.8
31	---	---	---	13.6	13.1	13.4	---	---	---	17.7	17.4	17.5
MONTH	8.5	3.3	5.9	13.7	7.6	10.6	18.7	13.0	16.0	19.7	16.4	17.8

CUMBERLAND RIVER BASIN

03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN--Continued

TEMPERATURE, WATER (DEG. C), 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	17.8	17.2	17.4	23.4	22.3	22.9	25.2	24.2	24.7	24.6	23.6	24.3
2	18.1	17.6	17.7	23.9	22.8	23.3	25.3	23.9	24.7	24.9	24.3	24.6
3	18.3	17.5	17.9	24.1	23.0	23.3	26.9	24.2	25.2	24.7	23.9	24.4
4	18.6	18.0	18.3	24.0	23.1	23.6	27.1	24.1	25.6	24.4	23.7	24.0
5	19.4	18.0	18.6	25.1	23.2	24.0	26.7	24.2	25.2	24.4	23.5	24.0
6	19.5	18.2	18.8	24.3	23.0	23.7	25.7	23.7	24.6	24.8	23.7	24.2
7	---	---	---	23.6	22.7	23.2	25.5	24.7	25.1	24.8	23.9	24.5
8	---	---	---	24.0	23.2	23.5	25.6	24.6	25.1	24.1	23.6	23.8
9	20.9	18.7	19.6	24.7	23.1	23.8	25.5	24.5	25.1	23.8	23.4	23.6
10	20.5	19.6	20.1	24.0	22.9	23.3	25.5	24.5	25.0	23.8	23.3	23.5
11	20.9	19.8	20.2	24.7	22.8	23.5	25.4	24.5	24.9	24.7	23.6	24.0
12	20.6	19.7	20.0	24.5	23.1	23.8	25.9	24.5	25.0	24.9	23.8	24.3
13	21.5	20.5	21.1	25.6	23.2	24.6	26.0	24.6	25.0	24.4	23.6	23.9
14	21.6	20.5	21.0	25.8	24.1	25.1	25.5	24.2	24.7	24.1	23.3	23.7
15	21.3	20.7	21.1	26.0	24.1	25.0	25.7	24.2	24.6	23.7	23.2	23.4
16	22.4	20.7	21.5	25.7	24.6	25.1	25.8	24.1	25.1	24.3	23.2	23.6
17	21.8	20.9	21.4	24.9	24.3	24.6	26.4	24.9	25.8	23.8	22.7	23.2
18	22.0	20.8	21.4	24.4	23.8	24.1	26.4	24.7	25.9	23.3	22.8	23.1
19	21.5	20.9	21.2	24.6	23.5	24.2	26.3	24.7	25.6	23.9	23.1	23.5
20	22.5	20.7	21.5	25.2	23.4	24.4	26.3	24.7	25.5	23.5	22.8	23.1
21	23.3	21.4	22.2	25.0	23.6	24.2	25.7	24.9	25.3	23.0	22.6	22.8
22	23.7	21.7	22.7	25.4	24.0	24.6	25.0	24.3	24.6	22.6	22.1	22.3
23	23.4	21.8	22.7	25.0	24.3	24.7	25.5	24.5	25.1	22.1	21.5	21.8
24	23.2	22.1	22.6	24.9	24.3	24.5	25.4	24.3	24.9	21.8	21.3	21.5
25	23.4	22.4	22.8	25.0	24.2	24.6	25.1	24.5	24.9	21.4	21.1	21.3
26	23.4	22.1	22.7	25.9	24.2	24.9	25.1	24.6	24.8	21.1	20.8	20.9
27	23.1	22.0	22.6	26.1	24.4	25.1	25.1	24.1	24.5	21.1	20.8	20.9
28	23.7	22.3	22.9	25.8	24.6	25.2	25.0	24.2	24.6	21.2	20.8	21.0
29	23.4	22.4	22.8	26.3	24.5	25.3	25.6	25.0	25.4	21.4	20.7	21.0
30	23.2	22.4	22.8	25.9	24.9	25.4	25.4	24.9	25.1	21.6	21.0	21.3
31	---	---	---	25.4	24.4	24.9	25.1	24.5	24.9	---	---	---
MONTH	23.7	17.2	20.9	26.3	22.3	24.3	27.1	23.7	25.0	24.9	20.7	23.0

OXYGEN, DISSOLVED (DO), 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	9.0	7.2	6.7	8.9	8.5	8.7	7.9	7.5	7.7	9.7	8.2	9.1
2	8.7	7.7	6.5	9.0	8.5	8.7	7.8	7.4	7.6	9.9	9.5	9.7
3	7.8	6.8	5.9	8.9	8.5	8.7	7.5	7.4	7.4	10.0	9.7	9.8
4	8.2	10.8	6.8	9.3	8.1	8.7	7.5	7.4	7.4	10.3	9.8	10.0
5	9.0	7.4	8.1	9.0	8.2	8.6	7.6	7.5	7.5	10.6	10.2	10.4
6	8.5	7.8	8.2	9.4	7.8	8.8	7.8	7.6	7.7	11.5	10.4	10.5
7	10.0	7.4	8.5	9.1	8.3	8.7	8.0	7.8	7.9	11.7	11.1	11.4
8	8.7	6.2	7.5	9.1	8.6	8.9	8.3	8.0	8.1	11.5	10.2	10.6
9	8.7	7.1	7.8	9.1	8.9	9.0	8.4	8.1	8.3	10.3	10.1	10.2
10	8.3	7.5	8.0	8.9	8.4	8.6	8.3	8.1	8.2	10.3	10.1	10.2
11	9.2	8.0	8.6	9.0	8.2	8.6	8.4	8.2	8.3	10.3	10.0	10.1
12	8.9	8.4	8.5	8.8	8.5	8.6	8.5	8.2	8.4	10.2	9.8	10.0
13	8.6	8.2	8.4	8.7	8.5	8.6	8.6	8.4	8.5	9.8	9.7	9.7
14	8.4	8.1	8.3	8.7	8.4	8.5	8.6	8.4	8.5	9.7	9.5	9.6
15	8.6	7.9	8.2	8.4	8.0	8.3	8.5	8.4	8.4	9.5	9.5	9.5
16	9.2	8.1	8.6	8.0	7.6	7.8	8.4	8.3	8.4	9.5	9.2	9.3
17	9.2	8.0	8.7	8.4	8.0	8.1	8.5	8.3	8.4	9.2	9.0	9.1
18	9.0	8.5	8.7	8.1	7.8	8.0	8.9	8.4	8.6	9.0	8.6	8.8
19	8.9	8.5	8.7	8.1	7.7	7.9	9.0	8.9	9.0	8.7	8.6	8.6
20	8.5	7.8	8.1	8.2	7.7	8.0	9.1	8.9	9.0	8.9	8.5	8.8
21	8.5	7.6	8.1	8.6	8.1	8.4	9.1	9.0	9.0	9.1	8.9	9.0
22	9.1	8.2	8.8	8.6	8.2	8.3	9.3	9.0	9.1	9.4	9.1	9.3
23	8.4	6.8	7.4	8.7	8.3	8.5	9.2	8.5	9.1	9.5	9.3	9.4
24	9.0	7.2	8.0	8.9	8.5	8.7	9.3	8.4	8.9	9.7	9.5	9.6
25	8.9	7.8	8.6	8.9	8.7	8.8	9.4	8.2	9.0	9.7	9.5	9.6
26	8.8	7.8	8.4	8.7	8.4	8.5	9.7	8.8	9.3	9.7	9.5	9.6
27	9.5	8.7	9.1	8.5	8.4	8.5	9.5	8.6	9.2	9.6	9.5	9.5
28	9.4	8.9	9.1	11.2	8.2	9.5	9.4	8.5	8.9	9.5	9.4	9.5
29	9.3	8.7	9.0	8.2	8.0	8.1	9.5	8.6	9.1	9.6	9.4	9.5
30	8.9	8.5	8.7	8.0	7.6	7.8	9.4	8.5	9.1	9.7	9.5	9.6
31	8.8	8.5	8.6	---	---	---	9.6	8.5	9.0	9.9	9.7	9.8
MONTH	10.0	6.2	8.1	11.2	7.6	8.5	9.7	7.4	8.5	11.7	8.2	9.7

CUMBERLAND RIVER BASIN

03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN--Continued

OXYGEN, DISSOLVED (DO), 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	10.1	9.8	10.0	10.9	10.8	10.9	12.9	11.0	12.0	9.7	8.4	9.2
2	10.1	9.9	10.0	11.2	10.9	11.0	12.3	11.7	12.0	9.5	8.8	9.1
3	10.4	10.0	10.1	11.6	11.0	11.3	12.8	11.6	12.0	9.7	8.9	9.2
4	10.6	10.4	10.5	11.8	11.3	11.6	12.2	10.6	11.2	9.4	8.9	9.2
5	10.9	10.6	10.7	11.8	11.5	11.6	11.7	10.8	11.3	9.2	8.4	8.7
6	11.3	10.8	11.0	11.8	11.1	11.5	11.6	10.8	11.1	9.5	8.0	8.9
7	11.2	11.0	11.1	12.3	11.2	11.3	11.5	10.5	10.8	9.8	8.7	9.3
8	11.5	11.1	11.3	12.7	12.1	12.3	11.3	10.5	10.7	9.3	8.0	8.7
9	11.8	11.4	11.6	12.5	11.9	12.2	11.1	9.8	10.5	9.3	8.2	8.7
10	12.0	11.7	11.9	13.2	11.9	12.6	10.6	8.8	10.2	8.6	7.5	8.3
11	11.9	11.7	11.8	13.3	10.9	12.0	10.5	8.3	9.9	7.5	7.0	7.3
12	12.4	11.9	12.1	11.1	11.0	11.1	10.5	8.8	9.8	8.1	7.3	7.6
13	12.6	12.2	12.4	11.0	10.6	10.8	10.0	8.7	9.6	7.9	7.1	7.5
14	12.8	12.5	12.7	10.6	10.5	10.6	11.1	8.9	10.2	9.5	6.7	7.0
15	12.9	12.6	12.8	10.5	10.4	10.5	11.7	8.5	10.6	9.5	8.3	8.9
16	12.6	12.2	12.4	10.9	10.5	10.7	10.8	9.2	9.6	8.7	8.4	8.5
17	12.3	12.0	12.2	11.2	10.9	11.0	9.6	8.6	9.0	8.7	7.5	8.2
18	12.1	11.9	12.0	11.6	11.1	11.4	---	---	---	10.2	7.1	8.1
19	11.9	11.8	11.9	11.9	11.5	11.6	---	---	---	10.4	10.0	10.2
20	11.9	11.7	11.8	11.7	11.5	11.6	10.0	8.7	9.3	10.5	9.7	10.4
21	11.7	11.4	11.5	11.8	11.4	11.6	9.6	8.6	9.2	10.6	9.3	10.1
22	11.8	11.6	11.7	12.2	11.6	11.9	9.7	9.1	9.3	9.6	8.5	8.9
23	11.7	11.1	11.5	12.1	11.8	12.0	9.7	9.4	9.6	9.4	8.7	9.0
24	11.1	10.8	10.9	12.5	11.8	12.1	9.6	9.1	9.4	9.7	9.1	9.4
25	10.9	10.7	10.8	12.6	12.0	12.3	9.8	9.3	9.5	9.8	9.3	9.5
26	10.9	10.6	10.7	12.7	12.3	12.5	11.6	9.3	10.3	9.8	9.3	9.5
27	10.8	10.7	10.8	12.6	11.4	12.2	10.6	9.3	9.8	9.6	9.1	9.5
28	10.9	10.6	10.8	12.4	11.2	11.8	10.4	9.1	9.7	9.6	9.3	9.5
29	---	---	---	12.6	11.2	11.8	10.7	9.5	10.2	9.7	9.2	9.4
30	---	---	---	12.1	11.2	11.8	10.7	8.7	9.8	10.2	9.3	9.6
31	---	---	---	12.3	11.1	11.9	---	---	---	9.7	9.3	9.5
MONTH	12.9	9.8	11.4	13.3	10.4	11.6	12.9	8.3	10.2	10.6	6.7	8.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.2	9.1	9.5	7.5	5.7	6.6	7.1	6.0	6.5	6.5	6.0	6.3
2	10.2	9.4	9.7	8.0	6.3	7.0	7.1	5.9	6.6	7.0	6.2	6.6
3	9.8	9.4	9.6	7.3	6.2	6.6	8.5	6.4	7.1	7.2	6.4	6.8
4	9.7	9.1	9.4	6.9	6.2	6.6	8.2	6.7	7.4	7.2	6.2	6.6
5	9.6	8.8	9.1	8.1	6.2	6.9	7.4	6.3	6.9	6.9	5.8	6.4
6	9.1	8.0	8.6	7.4	6.0	6.8	7.2	5.9	6.4	6.7	5.9	6.3
7	---	---	---	7.6	6.5	7.0	7.1	6.0	6.5	6.5	5.8	6.2
8	---	---	---	7.7	7.0	7.3	7.1	6.0	6.5	6.5	5.8	6.1
9	9.6	6.6	7.8	8.2	6.7	7.5	7.5	5.6	6.5	6.2	5.7	6.0
10	9.2	7.3	8.2	7.3	6.2	6.7	7.3	6.5	6.9	6.1	5.7	5.8
11	9.0	7.3	8.1	7.4	5.9	6.5	7.3	6.5	6.8	7.0	5.6	6.1
12	8.5	7.3	7.9	6.7	6.0	6.4	7.8	6.5	7.0	7.3	6.2	6.7
13	8.1	6.8	7.5	7.6	5.7	6.8	7.5	6.6	6.9	6.8	5.9	6.2
14	8.1	6.0	7.3	7.6	6.5	7.2	7.0	6.2	6.6	6.7	5.7	6.1
15	7.7	6.3	7.2	8.0	6.5	7.1	6.8	5.9	6.3	6.9	5.8	6.2
16	8.4	6.0	7.3	7.5	6.8	7.2	6.6	5.8	6.2	7.8	5.9	6.6
17	7.7	6.3	7.1	7.2	6.6	6.9	7.1	6.0	6.5	6.9	5.4	6.0
18	7.4	5.9	6.7	6.9	6.1	6.6	7.6	6.2	7.1	6.6	5.5	6.1
19	6.9	5.6	6.2	7.1	5.8	6.6	7.6	6.7	7.2	8.5	6.5	7.6
20	7.1	5.4	6.3	7.1	6.1	6.6	7.7	6.9	7.3	7.6	6.6	7.1
21	7.8	5.7	6.5	6.7	5.8	6.3	7.7	7.0	7.4	7.3	6.3	6.7
22	7.8	5.7	6.8	7.2	5.8	6.5	7.4	6.8	7.1	7.4	6.0	6.7
23	7.6	5.5	6.6	6.8	6.0	6.6	7.6	6.9	7.3	8.0	7.1	7.7
24	7.7	5.5	6.8	6.6	6.0	6.4	7.6	6.5	7.1	8.5	7.7	8.0
25	8.1	5.8	7.3	6.7	6.0	6.3	7.2	6.7	7.0	8.2	7.3	7.7
26	7.9	6.2	7.0	7.8	6.1	6.7	7.1	6.4	6.8	7.6	6.9	7.3
27	7.8	5.9	6.8	8.4	6.3	7.1	6.6	6.1	6.3	8.5	7.5	8.0
28	8.3	6.0	7.1	7.8	6.6	7.2	6.5	5.9	6.2	8.5	7.7	8.1
29	7.4	6.0	6.8	8.2	6.5	7.3	6.8	5.9	6.5	8.6	7.3	8.0
30	7.3	5.7	6.6	7.8	7.1	7.4	6.7	6.0	6.4	9.0	7.8	8.3
31	---	---	---	7.1	6.0	6.7	6.5	5.9	6.2	---	---	---
MONTH	10.2	5.4	7.6	8.4	5.7	6.8	8.5	5.6	6.8	9.0	5.4	6.8

CUMBERLAND RIVER BASIN

03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN--Continued

TURBIDITY (NTU), 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	11	7	14	8	25	21	13	7	12	9	10	6
2	11	6	14	5	28	20	12	8	12	9	14	7
3	11	7	11	7	27	22	14	8	11	9	12	7
4	15	8	11	6	24	18	15	8	10	9	9	7
5	13	7	---	---	19	13	11	7	10	8	9	7
6	12	7	---	---	17	12	14	7	10	8	9	6
7	14	6	---	---	14	12	12	7	9	7	10	6
8	16	9	11	9	14	11	13	8	10	7	19	7
9	19	14	12	8	14	10	20	12	7	5	60	19
10	14	11	11	8	15	11	21	14	8	6	62	28
11	13	6	12	8	15	12	24	17	7	5	33	18
12	10	7	10	7	13	11	24	16	9	4	19	12
13	12	7	11	7	14	10	27	23	6	4	18	13
14	16	8	12	6	13	10	27	22	5	3	24	18
15	21	10	12	8	16	10	24	19	5	4	26	20
16	15	7	16	7	14	11	20	18	5	3	22	16
17	11	5	16	8	14	11	22	19	8	3	17	11
18	11	5	16	10	14	10	25	20	7	4	12	7
19	10	5	20	11	13	9	25	23	8	7	8	6
20	13	5	---	---	14	9	26	22	9	6	8	4
21	12	8	---	---	14	8	23	21	9	6	7	4
22	11	8	---	---	11	7	22	17	8	5	8	5
23	13	9	---	---	13	7	18	16	9	4	9	6
24	13	8	---	---	13	10	18	14	15	9	11	7
25	14	8	---	---	14	10	16	14	15	10	11	7
26	13	8	---	---	13	8	16	13	10	7	15	7
27	11	7	---	---	12	8	16	13	9	7	19	10
28	9	6	---	---	13	9	15	12	9	6	19	12
29	12	6	14	9	13	9	15	13	---	---	18	11
30	12	6	26	13	13	9	14	11	---	---	15	10
31	11	6	---	---	11	7	14	10	---	---	18	10
MONTH	21	5	26	5	28	7	27	7	15	3	62	4

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16	9	22	15	20	13	9	6	21	10	---	---
2	13	9	24	18	14	9	8	5	20	4	---	---
3	13	9	23	17	10	6	9	6	---	---	---	---
4	13	10	18	12	8	4	9	5	16	3	---	---
5	14	8	17	8	7	3	10	5	13	3	---	---
6	17	9	10	6	11	4	12	7	19	3	---	---
7	14	9	10	7	---	---	17	6	19	5	---	---
8	14	7	10	8	---	---	9	6	---	---	---	---
9	12	6	13	9	---	---	12	5	---	---	---	---
10	13	7	14	6	---	---	13	6	---	---	---	---
11	14	6	11	9	---	---	11	8	---	---	---	---
12	16	7	10	9	---	---	14	9	---	---	---	---
13	17	7	10	9	---	---	---	---	17	3	---	---
14	15	7	12	9	6	2	---	---	6	3	---	---
15	16	4	---	---	7	2	---	---	---	---	---	---
16	20	7	---	---	5	3	---	---	---	---	---	---
17	19	8	---	---	7	4	---	---	---	---	---	---
18	---	---	22	10	7	5	14	8	9	3	---	---
19	---	---	19	10	9	6	17	8	15	3	---	---
20	11	5	13	8	11	6	14	9	16	2	---	---
21	10	6	19	10	11	7	---	---	15	6	---	---
22	9	6	23	14	13	8	---	---	11	4	---	---
23	11	6	18	14	15	8	---	---	5	3	---	---
24	12	6	19	10	10	7	---	---	5	3	---	---
25	9	6	24	17	11	6	---	---	---	---	---	---
26	9	5	---	---	12	7	14	8	---	---	---	---
27	11	7	---	---	13	8	14	8	---	---	---	---
28	13	9	27	12	13	8	19	11	---	---	---	---
29	15	11	27	15	12	8	20	12	---	---	6	3
30	18	13	31	18	10	6	20	12	---	---	10	3
31	---	---	25	13	---	---	21	4	---	---	---	---
MONTH	20	4	31	6	20	2	21	4	21	2	10	3

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CUMBERLAND RIVER BASIN

03426385 MANSKER CREEK ABOVE GOODLETSVILLE, TN

LOCATION.--Lat 36°20'20", long 86°43'04", Davidson County, Hydrologic Unit 05130202, on left bank at downstream end of bridge on U.S. Highway 31W, at mouth of Slater Creek, 400 ft below Lumsley Fork, and 1.2 mi north of Goodletsville.

DRAINAGE AREA.--27.7 mi², includes Slater Creek.

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

GAGE.--Data collection platform. Datum of gage is 434.99 ft above sea level.

REMARKS.--No estimated daily discharges. Records good above 7.0 ft³/s, fair below. Periodic obsevations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1200 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 27	2200	*2,600	*9.21	May 15	0315	1,300	6.45
Mar. 7	1915	1,350	6.56	May 18	1345	1,380	6.62
May 9	0900	1,300	6.44				

Minimum discharge, 0.80 ft³/s, Sept. 6.

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	3.6	6.7	33	8.8	32	16	10	32	12	3.3	1.5	1.1
2	3.9	6.9	25	8.1	28	14	9.7	33	26	2.6	1.5	1.1
3	5.5	5.4	21	7.8	25	13	9.4	24	20	2.5	1.4	1.2
4	4.5	5.1	124	7.1	23	13	9.1	20	17	6.1	1.2	1.2
5	3.8	12	108	6.3	20	26	8.6	17	12	11	26	1.2
6	3.4	20	65	285	15	110	8.5	15	10	4.7	14	.98
7	3.1	13	47	178	17	619	8.3	13	9.8	3.4	12	1.0
8	3.1	9.7	36	83	15	454	8.2	11	8.2	2.8	11	1.2
9	22	9.8	31	55	14	166	7.7	200	6.7	2.6	7.8	1.5
10	12	11	225	43	15	102	7.1	70	5.4	2.6	5.3	1.8
11	7.9	9.2	130	46	14	72	7.4	40	22	2.2	3.8	1.7
12	15	8.3	72	47	12	56	14	28	19	1.9	3.1	1.8
13	100	7.7	51	41	11	45	9.8	22	13	1.7	2.8	3.7
14	40	6.9	39	291	17	37	8.3	71	9.3	1.7	2.5	2.3
15	25	6.4	31	424	299	33	7.7	345	7.5	1.6	2.4	1.5
16	18	6.9	66	206	230	30	7.4	139	6.1	1.4	2.2	7.9
17	14	6.4	85	106	128	26	8.0	111	4.8	1.2	2.0	4.3
18	12	6.1	57	70	80	23	7.7	377	4.2	1.1	2.4	2.7
19	12	5.5	42	208	58	21	6.9	217	4.7	.95	2.4	2.3
20	10	5.2	33	132	47	22	53	99	7.8	.88	3.1	2.1
21	9.2	5.4	26	82	37	19	224	60	5.2	.87	3.3	2.1
22	9.3	5.0	23	58	31	18	63	42	4.0	2.2	2.5	1.7
23	11	4.8	20	46	27	16	43	30	4.5	1.9	2.0	1.5
24	9.6	4.6	17	37	23	15	35	24	5.3	1.7	1.9	1.5
25	8.9	4.6	15	31	22	14	28	19	3.9	2.3	1.7	1.5
26	7.3	5.5	13	26	20	13	22	16	3.5	2.7	1.5	5.5
27	6.6	461	12	27	20	16	19	18	3.1	2.6	1.4	3.2
28	6.3	273	11	66	18	13	16	17	2.9	2.4	1.3	2.7
29	6.3	80	10	57	---	12	14	14	2.7	2.9	1.2	2.3
30	6.0	47	9.4	46	---	11	14	11	3.8	2.4	1.2	2.1
31	6.1	---	9.3	37	---	11	---	11	---	1.8	1.2	---
TOTAL	405.4	1059.1	1486.7	2766.1	1298	2056	694.8	2146	264.4	80.00	127.6	66.68
MEAN	13.1	35.3	48.0	89.2	46.4	66.3	23.2	69.2	8.81	2.58	4.12	2.22
MAX	100	461	225	424	299	619	224	377	26	11	26	7.9
MIN	3.1	4.6	9.3	6.3	11	11	6.9	11	2.7	.87	1.2	.98
CFSM	.47	1.27	1.73	3.22	1.67	2.39	.84	2.50	.32	.09	.15	.08
IN.	.54	1.42	2.00	3.71	1.74	2.76	.93	2.88	.36	.11	.17	.09

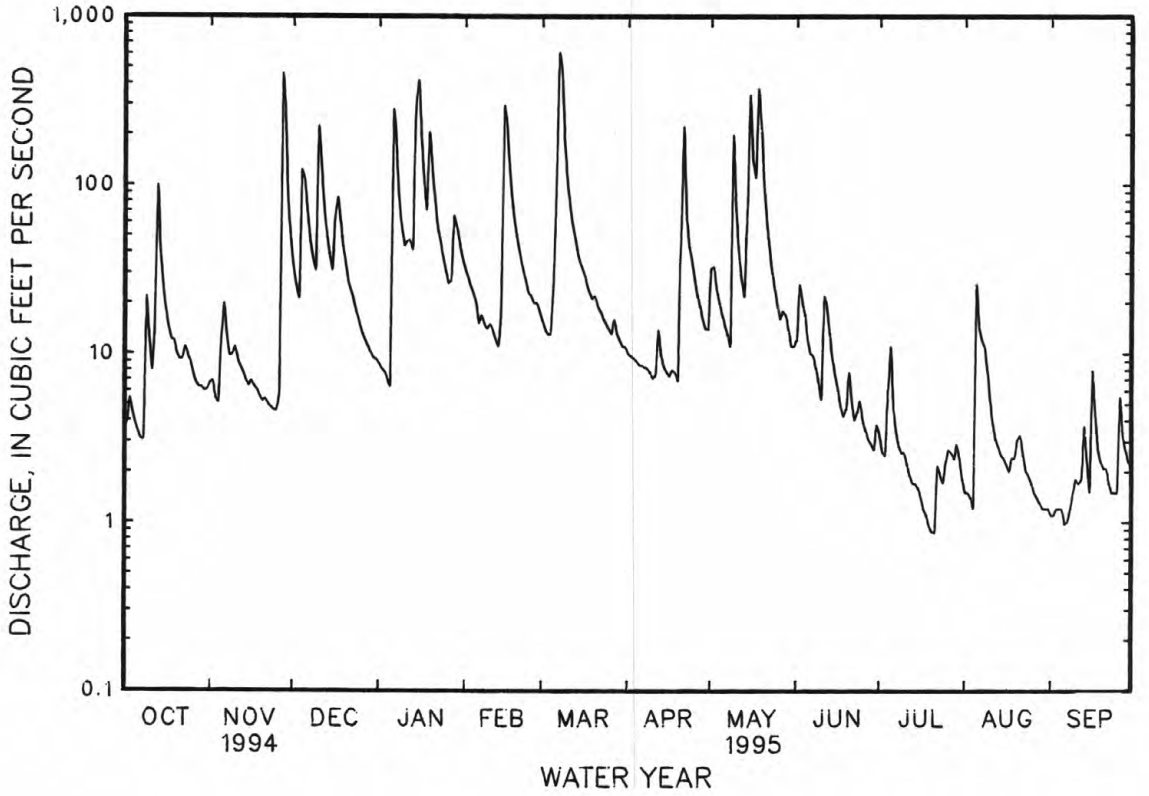
CUMBERLAND RIVER BASIN

03426385 MANSKER CREEK ABOVE GOODLETSVILLE, TN--Continued

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

MEAN	9.61	22.7	62.5	82.8	108	107	68.7	54.3	26.3	4.44	6.44	3.36
MAX	13.1	35.3	77.0	89.2	169	147	114	69.2	43.9	6.29	14.0	5.03
(WY)	1995	1995	1994	1995	1994	1994	1994	1995	1994	1994	1994	1994
MIN	6.15	10.2	48.0	76.3	46.4	66.3	23.2	39.5	8.81	2.58	1.17	2.22
(WY)	1994	1994	1995	1994	1995	1995	1995	1994	1995	1995	1993	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1993 - 1995		
ANNUAL TOTAL	21358.4		12450.78				
ANNUAL MEAN	58.5		34.1		46.2		
HIGHEST ANNUAL MEAN					58.3		1994
LOWEST ANNUAL MEAN					34.1		1995
HIGHEST DAILY MEAN	1340	Mar 9	619	Mar 7	1340	Mar 9	1994
LOWEST DAILY MEAN	1.8	Sep 15	.87	Jul 21	.29	Sep 13	1993
ANNUAL SEVEN-DAY MINIMUM	2.2	Sep 10	1.1	Sep 1	.53	Sep 8	1993
INSTANTANEOUS PEAK FLOW			2600	Nov 27	3340	Feb 22	1994
INSTANTANEOUS PEAK STAGE			9.21	Nov 27	10.68	Feb 22	1994
INSTANTANEOUS LOW FLOW			.80	Sep 6	.20	Aug 22	1993
ANNUAL RUNOFF (CFSM)	2.11		1.23		1.67		
ANNUAL RUNOFF (INCHES)	28.68		16.72		22.67		
10 PERCENT EXCEEDS	128		75		90		
50 PERCENT EXCEEDS	15		11		11		
90 PERCENT EXCEEDS	3.8		1.8		1.5		



CUMBERLAND RIVER BASIN

03428200 WEST FORK STONES RIVER AT MURFREESBORO, TN

LOCATION.--Lat 35°54'10", long 86°25'48", Rutherford County, Hydrologic Unit 05130203, on left bank at Murfreesboro waste treatment plant outfall, 3,000 ft downstream from Sinking Creek, 4.5 mi northwest of the courthouse in Murfreesboro, and at mile 10.7.

DRAINAGE AREA.--177 mi², includes 17 mi² without surface drainage.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1972 to January 1982, January 1986 to current year.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 514.95 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Flow is affected by Murfreesboro sewage treatment plant outflow. An annual average of 11.6 ft³/s, with a maximum of 15.5 ft³/s is discharged to the West Fork Stones River 25 ft above the station. Prior to July 1987 an annual average of 7.7 ft³/s was discharged. Natural flow of stream affected by transbasin diversion of water from East Fork Stones River basin into the West Fork Stones River basin.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,700 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 28	0930	4,680	11.63	Mar. 27	1800	5,900	13.35
Mar. 8	0930	*8,020	*15.72	Apr. 21	1030	4,180	10.76

Minimum discharge, 14.0 ft³/s, Sept. 10.

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	65	56	368	74	263	109	181	201	75	61	49	23
2	59	52	298	71	233	102	154	642	140	47	43	22
3	57	49	258	68	205	96	133	307	87	41	39	20
4	51	46	1030	66	184	91	119	229	73	37	40	19
5	46	50	1590	63	164	459	107	189	65	104	52	19
6	42	173	794	458	147	665	97	155	60	63	79	18
7	38	180	508	1480	136	673	89	134	61	56	76	17
8	34	121	392	502	127	5480	82	115	55	46	67	16
9	85	113	337	358	114	1410	76	310	50	39	145	16
10	312	141	1020	285	109	786	70	469	46	37	500	16
11	163	139	1560	286	107	564	67	638	93	33	201	17
12	122	122	660	501	99	444	81	291	352	31	123	20
13	451	106	466	355	91	369	71	196	196	29	95	48
14	1210	95	376	1020	87	314	65	749	123	27	78	69
15	547	86	312	1380	104	277	60	524	93	24	65	41
16	335	80	278	857	1130	245	57	335	76	24	59	54
17	244	76	258	532	781	217	95	259	64	27	52	86
18	191	71	232	409	441	192	86	224	57	41	60	79
19	159	66	205	347	339	168	74	590	60	32	76	64
20	139	61	181	307	285	158	85	358	112	27	54	52
21	121	59	163	269	239	150	1930	250	106	25	73	44
22	111	55	149	235	204	136	608	192	83	40	79	40
23	107	53	135	207	179	122	388	150	73	73	54	35
24	115	50	123	187	161	108	318	121	80	287	44	32
25	101	46	112	166	143	98	242	112	98	335	38	31
26	89	53	104	151	130	90	195	148	151	166	34	35
27	81	1210	97	139	123	1940	162	103	102	116	32	34
28	72	2970	91	206	119	797	139	92	79	89	29	29
29	66	882	86	668	---	385	120	90	61	79	28	27
30	62	502	81	395	---	276	116	80	53	68	26	25
31	59	---	78	308	---	217	---	71	---	57	23	---
TOTAL	5334	7763	12342	12350	6444	17138	6067	8324	2824	2161	2413	1048
MEAN	172	259	398	398	230	553	202	269	94.1	69.7	77.8	34.9
MAX	1210	2970	1590	1480	1130	5480	1930	749	352	335	500	86
MIN	34	46	78	63	87	90	57	71	46	24	23	16

CUMBERLAND RIVER BASIN

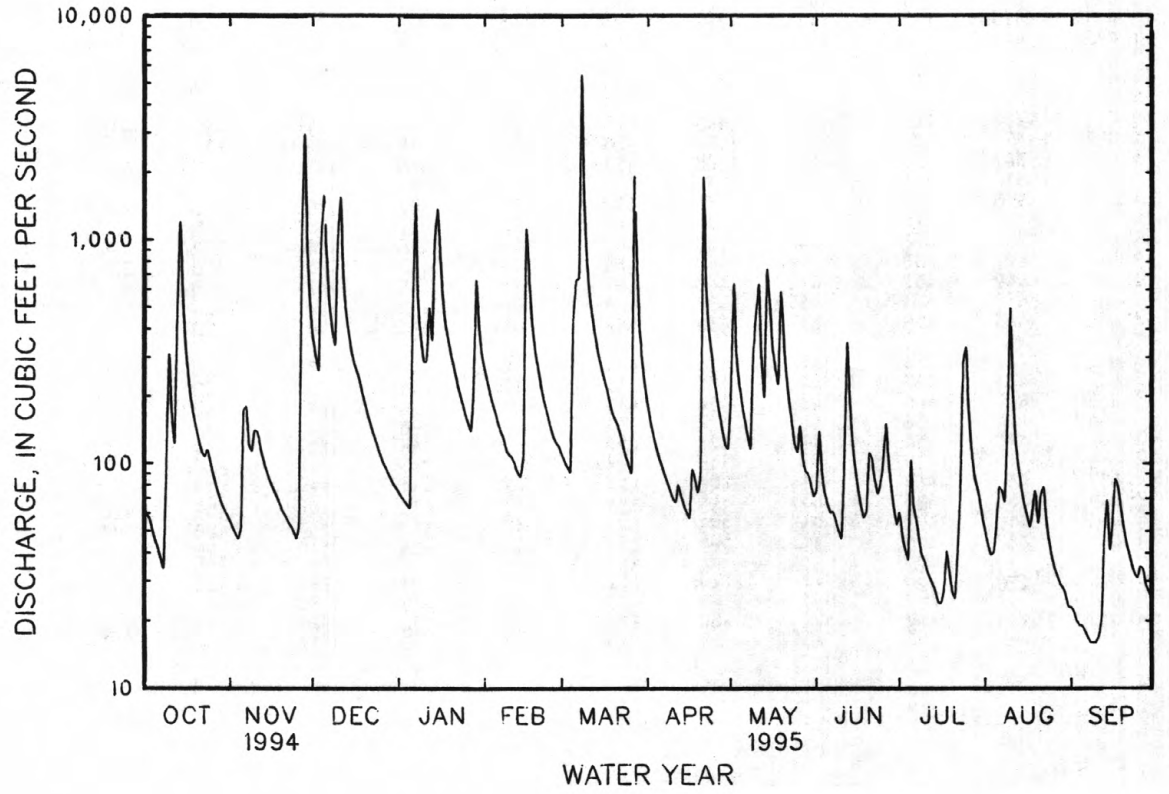
03428200 WEST FORK STONES RIVER AT MURFREESBORO, TN--Continued

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

MEAN	158	304	520	562	532	704	334	211	151	91.3	55.6	159
MAX	894	1035	1259	1453	1156	1773	954	818	765	658	183	880
(WY)	1976	1987	1991	1974	1991	1975	1994	1973	1989	1989	1994	1979
MIN	7.60	10.4	31.6	25.4	133	216	58.4	23.8	11.0	13.9	12.2	11.3
(WY)	1981	1981	1981	1981	1978	1981	1986	1981	1988	1988	1976	1980

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		aWATER YEARS 1972 - 1995	
ANNUAL TOTAL	180414		84208			
ANNUAL MEAN	494		231		321	
HIGHEST ANNUAL MEAN					517	1973
LOWEST ANNUAL MEAN					76.0	1981
HIGHEST DAILY MEAN	9800	Mar 27	5480	Mar 8	21200	Mar 13 1975
LOWEST DAILY MEAN	21	Jun 20	16	Sep 8	4.7	Oct 13 1980
ANNUAL SEVEN-DAY MINIMUM	28	Jun 17	17	Sep 5	5.3	Nov 8 1980
INSTANTANEOUS PEAK FLOW			8020	Mar 8	31000	Mar 13 1975
INSTANTANEOUS PEAK STAGE			15.72	Mar 8	23.80	Mar 13 1975
INSTANTANEOUS LOW FLOW			14	Sep 10	2.9	Jul 7 1988
10 PERCENT EXCEEDS	1140		502		658	
50 PERCENT EXCEEDS	160		106		106	
90 PERCENT EXCEEDS	42		35		14	

a See REMARKS.



CUMBERLAND RIVER BASIN

03428200 WEST FORK STONES RIVER AT MURFREESBORO, TN--Continued

WATER-QUALITY RECORDS

LOCATION.--At bridge on Blanton Drive, 900 ft upstream from Sinking Creek, 0.7 mi upstream from discharge station.

PERIOD OF RECORD.--February 1986 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: February 1986 to current year.
pH: February 1986 to current year.
WATER TEMPERATURE: February 1986 to current year.
DISSOLVED OXYGEN: February 1986 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Records good. Interruptions in the record were due to equipment malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 520 microsiemens, Nov. 2, 1993; minimum 63 microsiemens, Dec. 25, 1987.
pH: Maximum, 9.0 units, Mar. 24, 1986; minimum, 5.8 units, June 18, 1992.
WATER TEMPERATURE: Maximum, 33.2°C, June 24, 1988; minimum, 0.9°C, Dec. 26, 27, 1989.
DISSOLVED OXYGEN: Maximum, 18.2 mg/L, March 20, 1988; minimum, 1.6 mg/L, Sept. 12, 1990.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 472 microsiemens, Oct. 21, 22; minimum 152 microsiemens, Mar. 27.
pH: Maximum, 8.6 units, Oct. 22, 23; minimum, 6.1 units, May 30, 31.
WATER TEMPERATURE: Maximum, 32.0°C, July 14; minimum, 1.7°C, Feb. 9.
DISSOLVED OXYGEN: Maximum, 17.2 mg/L, Feb. 14; minimum, 3.8 mg/L, July 15, Sept. 13.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), 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	411	405	409	430	422	427	411	398	405	421	416	419
2	417	410	414	430	425	427	419	411	415	424	402	415
3	421	411	417	429	426	428	422	417	420	418	408	415
4	424	413	418	428	426	427	417	320	386	422	403	416
5	423	412	418	427	423	426	320	282	293	415	404	412
6	420	412	417	424	367	396	369	299	334	415	342	387
7	421	415	418	416	394	410	400	369	387	349	214	246
8	423	418	420	408	395	402	413	400	407	363	282	326
9	421	343	397	412	391	405	418	413	416	398	363	383
10	421	382	410	409	394	401	419	321	387	416	398	407
11	421	382	402	428	409	421	321	256	281	422	412	417
12	382	352	371	432	422	428	380	318	355	424	414	420
13	405	347	367	435	426	431	398	380	391	418	406	411
14	399	312	356	441	431	437	407	398	403	406	298	381
15	384	318	352	444	434	440	414	407	410	338	294	314
16	427	384	408	446	438	442	415	412	414	372	334	349
17	449	427	438	449	440	445	417	413	415	405	372	391
18	458	449	452	454	448	451	419	415	417	418	405	413
19	465	458	461	455	437	448	420	412	417	423	417	420
20	468	463	466	447	438	442	419	411	416	428	423	425
21	472	457	466	448	433	441	422	412	417	431	426	428
22	472	461	467	442	426	435	428	416	423	432	426	430
23	468	449	460	439	424	433	435	424	429	432	425	430
24	466	444	456	437	424	431	440	426	434	433	424	429
25	462	440	452	434	424	429	439	416	430	434	422	428
26	457	439	447	431	426	429	434	411	423	432	416	425
27	445	429	438	427	195	332	431	410	419	432	422	427
28	433	419	428	263	195	222	426	407	416	430	387	414
29	431	417	425	364	263	321	420	406	414	395	334	361
30	432	422	427	398	364	383	417	401	411	371	361	366
31	434	420	429	---	---	---	420	407	415	387	371	379
MONTH	472	312	423	455	195	413	440	256	400	434	214	396

CUMBERLAND RIVER BASIN

03428200 WEST FORK STONES RIVER AT MURFREESBORO, TN--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), 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	404	387	394	417	402	410	385	365	376	430	358	404
2	416	404	408	416	396	406	389	361	377	388	332	356
3	420	416	417	412	391	402	388	350	371	335	328	330
4	421	409	417	408	379	394	384	339	364	365	335	348
5	419	401	412	391	357	377	380	333	356	384	365	375
6	416	397	407	384	298	322	375	339	354	397	384	391
7	412	395	404	339	283	315	365	340	352	402	391	398
8	409	396	404	291	158	202	359	346	354	410	394	403
9	405	391	400	331	228	289	360	352	355	411	358	396
10	398	390	394	360	330	347	361	354	357	399	253	291
11	405	393	400	374	356	366	372	361	366	327	259	293
12	397	391	394	377	370	373	372	361	365	313	258	282
13	391	385	388	379	368	376	383	366	377	357	313	334
14	386	377	382	379	365	374	378	368	374	367	241	307
15	411	375	381	379	359	371	384	373	379	349	288	326
16	414	223	337	377	352	367	382	369	377	343	323	331
17	320	227	275	374	343	362	377	346	361	372	343	360
18	373	320	350	373	332	357	387	358	379	387	372	381
19	395	373	384	371	324	352	392	381	386	381	340	353
20	406	395	400	370	337	356	395	340	389	357	350	354
21	409	395	404	379	336	359	342	205	261	366	352	355
22	410	392	403	370	323	351	359	257	316	383	366	373
23	411	395	405	377	346	357	400	359	383	395	381	385
24	411	381	399	383	351	367	425	396	410	400	390	397
25	410	372	395	378	359	368	435	423	429	407	388	399
26	411	368	392	373	363	368	436	428	432	396	381	386
27	410	386	398	370	152	295	442	434	438	395	388	391
28	414	397	407	300	182	246	442	425	435	395	389	392
29	---	---	---	357	300	331	443	417	432	394	384	390
30	---	---	---	376	357	367	438	417	427	390	382	387
31	---	---	---	383	370	376	---	---	---	388	381	385
MONTH	421	223	391	417	152	352	443	205	378	430	241	363
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	390	282	380	387	360	368	388	374	382	378	374	376
2	375	281	359	382	362	368	387	374	382	378	366	374
3	373	354	359	387	357	369	383	377	381	388	363	375
4	377	364	372	400	361	371	384	375	381	388	363	374
5	378	372	375	368	246	338	381	322	371	383	360	372
6	380	363	374	379	348	355	374	360	367	387	363	374
7	376	360	368	365	360	362	379	369	376	385	364	372
8	370	360	366	375	361	370	390	379	386	388	363	376
9	375	358	365	380	372	376	413	337	390	390	368	376
10	375	343	362	385	380	382	397	244	292	391	365	379
11	376	333	357	409	381	386	357	257	309	395	359	379
12	364	325	349	384	380	381	387	348	370	387	364	376
13	369	315	344	382	379	380	404	387	397	381	356	370
14	360	312	342	392	378	380	443	403	409	382	370	376
15	363	323	341	379	378	379	419	399	410	381	375	378
16	372	332	344	381	377	379	409	399	405	379	351	370
17	378	343	350	380	377	378	408	401	406	387	372	381
18	367	346	354	409	377	395	405	392	401	390	382	387
19	367	291	352	401	374	384	399	388	394	394	388	391
20	362	340	355	406	368	381	392	364	386	404	394	400
21	379	352	356	404	366	379	402	364	384	413	404	409
22	378	358	365	391	359	373	404	364	379	412	406	409
23	390	364	369	372	340	356	383	371	378	417	409	413
24	374	366	370	370	317	350	382	376	379	426	413	419
25	366	344	355	317	281	286	386	375	381	422	418	420
26	402	348	367	325	284	297	385	379	383	421	413	416
27	406	347	368	329	305	315	389	381	384	420	417	419
28	360	352	357	349	329	341	388	380	382	427	414	419
29	368	359	364	364	349	357	380	375	378	429	422	426
30	389	331	370	373	364	368	378	373	375	422	418	420
31	---	---	---	380	373	377	377	373	376	---	---	---
MONTH	406	281	360	409	246	364	443	244	380	429	351	391

CUMBERLAND RIVER BASIN

03428200 WEST FORK STONES RIVER AT MURFREESBORO, TN--Continued

PH (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	8.2	7.8	8.0	7.7	---	---	7.1	6.9	7.9	7.6	7.9	7.8
2	8.1	7.9	8.0	7.8	---	---	7.0	6.9	8.0	7.6	8.0	7.8
3	8.0	7.8	7.9	7.7	7.7	7.4	7.0	6.9	7.9	7.7	8.2	7.7
4	8.0	7.7	7.8	7.5	7.6	7.4	6.9	6.9	8.1	7.7	8.2	7.8
5	7.9	7.7	7.7	7.4	7.5	7.3	6.9	6.9	8.3	7.7	8.0	7.6
6	8.2	7.6	7.7	7.5	7.6	7.5	8.0	6.9	8.3	7.9	7.8	7.7
7	8.1	7.9	7.8	7.6	7.7	7.6	8.0	7.8	8.3	7.8	7.8	7.6
8	8.0	7.8	7.8	7.6	7.9	7.7	8.0	7.8	8.3	7.9	7.8	7.5
9	8.2	7.9	7.8	7.5	8.0	7.8	8.1	8.0	8.4	7.9	7.8	7.5
10	8.4	8.1	7.5	7.4	7.9	7.7	8.2	8.0	8.3	7.9	8.0	7.8
11	8.2	8.0	7.8	7.4	7.8	7.7	8.1	8.0	8.3	7.9	8.1	8.0
12	8.0	7.7	7.7	7.4	7.8	7.7	8.2	8.0	8.3	7.9	8.3	8.0
13	7.9	7.5	7.8	7.5	7.9	7.8	8.1	7.7	8.4	7.9	8.3	8.0
14	7.9	7.7	7.8	7.5	8.0	7.9	7.7	7.6	8.3	7.9	8.2	7.9
15	7.7	7.6	7.7	7.5	8.1	8.0	7.6	7.5	8.3	7.8	8.2	7.9
16	7.8	7.6	7.7	7.5	8.1	8.0	7.6	7.5	8.0	7.6	8.1	7.9
17	7.8	7.6	---	---	8.1	8.0	7.8	7.6	7.8	7.6	8.2	7.9
18	7.9	7.6	---	---	8.1	8.0	7.7	7.6	8.1	7.8	8.2	7.9
19	7.9	7.7	---	---	8.2	8.0	7.8	7.6	8.2	8.0	8.1	7.9
20	7.9	7.7	---	---	8.2	8.1	7.8	7.7	8.4	8.0	8.1	7.9
21	8.5	7.6	---	---	8.2	7.9	8.0	7.8	8.5	8.1	8.2	7.9
22	8.6	8.3	---	---	8.1	7.8	8.0	7.8	8.4	8.0	8.0	7.8
23	8.6	8.3	---	---	7.9	7.7	8.0	7.8	8.4	8.0	7.9	7.6
24	8.5	8.3	---	---	8.0	7.7	8.0	7.8	8.3	7.9	7.8	7.4
25	8.5	8.2	---	---	8.0	7.7	8.1	7.8	8.2	7.9	7.8	7.5
26	8.4	8.2	---	---	7.8	7.5	8.0	7.7	8.0	7.8	7.8	7.5
27	8.4	8.1	---	---	7.6	7.4	7.9	7.7	7.9	7.7	7.7	7.3
28	8.4	8.1	---	---	7.6	7.3	8.0	7.6	7.9	7.7	7.6	7.3
29	8.3	8.0	---	---	7.4	7.1	7.6	7.5	---	---	7.9	7.6
30	8.1	7.9	---	---	7.2	7.0	7.5	7.5	---	---	8.2	7.8
31	8.0	7.9	---	---	7.1	7.0	7.7	7.5	---	---	8.2	7.9
MONTH	8.6	7.5	8.0	7.4	8.2	7.0	8.2	6.9	8.5	7.6	8.3	7.3
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.3	7.9	7.9	7.6	7.3	6.7	7.9	7.6	7.8	7.3	7.5	7.2
2	8.3	7.9	7.8	7.6	7.9	7.3	7.8	7.7	7.6	7.3	7.5	7.2
3	8.3	7.8	7.8	7.6	7.7	7.5	7.9	7.7	7.5	7.3	7.5	7.3
4	8.3	7.7	7.7	7.5	7.7	7.5	8.0	7.7	7.5	7.2	7.5	7.3
5	8.2	7.8	7.8	7.5	7.8	7.4	8.1	7.8	7.5	7.2	7.7	7.2
6	8.1	7.8	7.9	7.6	8.1	7.6	7.9	7.8	7.5	7.2	7.7	7.4
7	8.0	7.7	8.0	7.6	7.9	7.0	7.8	7.7	7.4	7.2	7.6	7.2
8	7.9	7.5	8.0	7.6	7.8	7.0	7.7	7.5	7.2	7.2	7.7	7.3
9	7.9	7.7	7.7	7.5	7.8	7.5	7.5	6.9	7.8	7.1	7.7	7.4
10	7.8	7.6	7.7	7.3	7.8	7.4	6.9	6.6	7.9	7.5	7.7	7.4
11	7.8	7.6	7.6	7.4	7.7	7.4	7.3	6.7	7.6	7.5	7.8	7.5
12	8.0	7.7	7.6	7.4	7.9	7.6	7.6	6.9	7.7	7.5	7.8	7.4
13	7.8	7.4	7.6	7.4	7.9	7.7	7.6	7.2	7.9	7.5	7.7	7.2
14	7.7	7.5	7.5	7.2	7.7	7.5	7.7	7.3	7.7	7.5	7.6	7.0
15	7.5	7.3	7.4	7.2	7.5	7.4	7.8	7.4	8.2	7.6	7.1	6.9
16	7.3	7.2	7.4	7.3	7.7	7.4	8.0	7.5	7.9	7.6	6.9	6.8
17	7.7	7.3	7.4	7.2	7.6	7.5	7.9	7.6	7.7	7.4	6.8	6.7
18	7.8	7.6	7.2	7.2	7.7	7.4	8.0	7.7	7.7	7.3	7.2	6.8
19	8.0	7.6	7.5	7.2	7.7	7.2	7.9	7.6	7.7	7.3	7.2	7.1
20	7.8	7.7	7.7	7.5	7.9	7.7	8.0	7.6	7.4	7.0	7.2	7.1
21	7.8	7.5	7.6	7.4	8.1	7.8	8.0	7.6	7.8	7.1	7.3	7.1
22	7.8	7.6	7.6	7.1	8.1	7.9	7.9	7.4	7.6	7.1	7.8	7.3
23	7.9	7.8	7.7	7.5	8.0	7.7	7.9	7.6	7.5	7.0	7.7	7.3
24	8.0	7.8	7.9	7.5	8.1	7.7	8.3	7.5	7.4	7.1	7.9	7.3
25	8.1	7.9	7.9	7.6	8.0	7.7	8.1	7.9	7.6	7.2	7.6	7.3
26	8.1	7.9	7.7	7.5	8.1	7.7	7.9	7.3	7.5	7.1	7.8	7.5
27	8.1	7.9	7.5	7.0	8.1	7.9	7.3	7.0	7.5	7.1	7.9	7.6
28	8.2	7.9	7.0	6.5	8.1	7.9	7.4	7.0	7.7	7.4	7.6	7.4
29	8.2	7.9	6.9	6.4	7.9	7.6	7.9	7.4	7.7	7.4	7.9	7.4
30	8.1	7.9	6.4	6.1	7.8	7.5	7.9	7.7	7.8	7.4	7.7	7.3
31	---	---	7.0	6.1	---	---	8.0	7.8	7.5	7.3	---	---
MONTH	8.3	7.2	8.0	6.1	8.1	6.7	8.3	6.6	8.2	7.0	7.9	6.7

CUMBERLAND RIVER BASIN

03428200 WEST FORK STONES RIVER AT MURFREESBORO, TN--Continued

TEMPERATURE, WATER (DEG. C), 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	21.3	18.5	19.9	15.7	14.0	14.8	10.3	9.0	9.6	9.5	8.3	9.2
2	20.9	19.7	20.4	14.1	12.1	13.3	10.3	8.8	9.5	8.3	6.3	7.0
3	21.1	19.9	20.5	15.1	12.6	13.9	11.2	9.5	10.5	6.3	5.5	5.8
4	20.6	18.6	19.7	15.7	14.1	14.9	13.5	11.2	12.4	5.5	3.9	5.0
5	19.9	17.6	18.9	17.1	15.4	16.2	14.5	13.5	14.2	3.9	2.1	2.9
6	19.8	17.7	18.9	16.9	15.3	16.2	14.8	14.3	14.5	4.0	2.9	3.3
7	20.5	18.5	19.5	16.2	14.2	15.1	14.3	13.5	14.1	6.2	3.3	4.9
8	20.8	19.2	20.0	16.4	13.7	15.1	13.5	12.9	13.1	7.4	6.2	6.8
9	20.4	18.4	19.6	17.3	14.9	16.1	13.4	12.8	13.1	8.5	7.1	7.7
10	18.9	16.7	17.9	17.0	15.7	16.3	13.0	11.6	12.6	9.1	7.4	8.2
11	18.2	15.8	17.0	16.6	15.0	15.8	11.6	9.0	10.1	10.3	8.5	9.6
12	17.8	16.3	16.8	16.3	14.4	15.4	9.1	8.4	8.8	12.6	10.3	11.7
13	16.6	16.2	16.4	15.9	13.9	15.0	9.4	8.4	8.9	13.6	12.5	13.1
14	16.7	16.0	16.4	15.7	14.4	15.2	9.7	8.6	9.1	13.9	13.0	13.7
15	17.5	16.2	16.8	16.4	14.6	15.5	9.6	8.8	9.3	13.0	10.7	11.9
16	18.4	16.7	17.4	16.0	14.8	15.6	10.5	9.6	10.2	10.7	9.8	10.2
17	18.0	16.7	17.2	15.5	14.5	14.9	11.6	10.5	11.0	10.1	9.1	9.7
18	18.3	16.5	17.3	14.5	13.2	13.8	10.5	9.1	9.9	10.4	9.6	10.0
19	18.5	17.2	17.8	14.3	12.3	13.3	9.5	8.1	8.8	10.7	9.9	10.4
20	19.1	17.6	18.2	14.7	13.4	14.1	9.1	7.4	8.2	9.9	8.0	9.0
21	18.9	16.7	17.9	15.6	14.3	14.9	9.7	7.6	8.6	8.0	6.6	7.4
22	18.6	17.7	18.3	14.5	11.9	13.0	10.6	9.0	9.7	6.8	5.8	6.3
23	19.4	17.9	18.5	11.9	9.9	10.6	10.1	9.1	9.6	7.1	5.8	6.3
24	18.2	15.7	17.0	10.1	8.3	9.2	9.1	8.4	8.8	7.1	5.1	6.0
25	17.3	15.0	16.0	9.5	8.4	9.0	8.9	7.9	8.3	7.7	5.0	6.2
26	15.9	13.7	14.7	10.0	9.4	9.6	8.2	6.5	7.5	7.7	5.4	6.6
27	14.3	12.4	13.4	12.8	10.0	10.8	7.8	6.1	7.1	7.2	5.7	6.5
28	14.1	12.0	13.1	13.7	12.4	13.3	8.4	6.1	7.3	9.7	7.2	8.4
29	14.3	11.9	13.1	12.4	10.9	11.5	8.4	7.7	8.1	9.4	7.5	8.3
30	14.6	13.6	14.2	10.9	9.9	10.4	9.0	7.5	8.2	7.8	6.7	7.4
31	16.1	14.4	15.2	---	---	---	9.3	8.9	9.1	7.4	5.9	6.6
MONTH	21.3	11.9	17.4	17.3	8.3	13.8	14.8	6.1	10.0	13.9	2.1	7.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.5	6.4	7.4	11.1	9.1	10.1	16.1	12.4	14.1	17.3	16.1	16.7
2	10.4	8.0	9.2	9.1	7.9	8.4	17.0	12.5	14.6	16.4	15.0	15.7
3	10.5	9.4	9.9	7.9	6.8	7.5	17.6	12.9	15.3	17.3	14.5	15.8
4	9.5	7.4	8.7	10.0	7.1	8.5	19.0	15.2	16.9	17.5	15.8	16.5
5	7.6	5.4	6.9	10.8	9.1	9.9	17.4	13.7	15.8	18.9	16.0	17.2
6	5.6	4.1	4.9	12.3	10.6	11.4	18.4	14.0	16.3	18.6	15.8	17.2
7	5.2	4.1	4.6	14.0	12.3	13.2	19.4	15.2	17.3	20.7	16.2	18.3
8	4.3	2.4	3.4	12.9	6.8	8.9	20.7	17.1	18.8	21.8	18.1	20.0
9	3.8	1.7	2.9	8.6	7.0	7.7	22.2	18.3	20.2	21.9	20.0	20.9
10	4.6	3.2	3.9	10.4	8.3	9.3	23.2	19.5	21.3	21.2	19.2	20.2
11	4.6	3.8	4.3	12.2	9.7	10.9	21.5	20.2	20.7	20.4	18.8	19.7
12	4.2	2.1	3.3	13.5	10.8	12.1	21.7	18.4	20.0	20.0	17.9	18.8
13	3.4	2.4	3.0	14.9	12.1	13.4	20.8	17.7	19.3	20.2	18.2	19.2
14	4.7	3.1	3.9	16.2	13.3	14.6	20.7	16.5	18.6	20.5	19.5	20.0
15	7.8	4.6	6.2	16.7	14.0	15.2	20.7	17.0	18.9	21.1	19.9	20.4
16	8.5	7.5	8.0	17.3	14.7	15.8	21.9	18.5	20.2	20.2	19.3	19.8
17	8.6	7.9	8.3	17.9	15.2	16.3	21.5	19.1	19.8	21.6	19.5	20.5
18	10.4	8.2	9.2	18.1	14.7	16.2	21.0	18.7	19.8	21.5	20.5	20.9
19	11.3	10.3	10.8	18.2	14.5	16.2	23.4	19.9	21.5	20.6	18.8	19.9
20	12.3	10.4	11.2	17.2	15.2	16.3	22.4	20.0	21.2	20.4	17.6	18.8
21	11.6	9.4	10.6	18.5	14.6	16.4	20.0	18.2	19.1	20.9	18.1	19.3
22	11.4	8.7	9.9	19.7	15.1	17.4	18.9	17.3	18.1	22.5	18.9	20.5
23	11.5	9.7	10.6	20.8	17.0	18.9	17.3	16.1	16.7	23.8	19.7	21.6
24	11.9	9.5	10.5	19.0	16.1	17.7	16.8	15.0	15.7	24.3	20.8	22.4
25	11.6	8.2	9.9	18.1	14.6	16.5	17.6	14.6	15.8	25.0	21.3	23.0
26	12.2	8.8	10.5	18.5	15.5	17.0	18.6	14.8	16.5	24.3	21.5	23.0
27	12.2	10.7	11.5	18.3	17.0	17.6	17.0	15.8	16.4	24.8	21.9	23.4
28	12.2	11.1	11.7	17.4	15.9	16.7	17.8	14.4	16.0	24.7	22.9	23.8
29	---	---	---	16.1	14.4	15.2	18.4	14.0	16.3	24.3	22.4	23.4
30	---	---	---	16.2	13.6	14.6	17.9	16.2	17.2	24.6	21.7	23.1
31	---	---	---	15.8	13.6	14.4	---	---	---	23.1	21.4	22.0
MONTH	12.3	1.7	7.7	20.8	6.8	13.7	23.4	12.4	17.9	25.0	14.5	20.1

CUMBERLAND RIVER BASIN

03428200 WEST FORK STONES RIVER AT MURFREESBORO, TN--Continued

TEMPERATURE, WATER (DEG. C), 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	23.8	21.5	22.5	26.4	24.3	25.5	30.9	27.6	29.2	29.4	27.1	28.2
2	24.2	21.0	22.5	26.4	23.5	25.1	30.2	27.3	28.9	27.1	24.8	26.0
3	25.4	21.7	23.4	26.7	24.0	25.5	29.4	27.2	28.1	26.3	22.9	24.5
4	27.1	23.5	25.1	27.4	24.7	26.0	29.1	27.0	28.0	26.6	23.3	24.8
5	26.5	24.0	25.3	27.0	24.2	25.9	28.6	26.3	27.1	27.0	23.5	25.1
6	27.8	24.4	26.0	27.6	24.5	26.0	27.2	25.6	26.3	27.1	23.6	25.2
7	27.7	24.1	25.9	28.4	25.1	26.8	27.8	25.6	26.6	26.2	23.0	24.7
8	28.3	24.9	26.6	28.6	25.0	26.9	26.7	25.0	25.9	26.4	23.0	24.8
9	29.5	25.8	27.7	27.8	25.3	26.7	26.9	24.0	25.3	25.5	23.5	24.3
10	30.1	27.1	28.6	29.1	26.2	27.7	25.3	23.2	24.4	24.4	23.0	23.6
11	29.2	24.8	27.0	30.0	26.6	28.4	27.4	24.1	25.5	25.8	22.2	23.9
12	24.8	21.9	23.4	31.1	27.4	29.2	28.4	25.0	26.6	26.4	23.9	25.0
13	23.0	20.3	21.5	31.6	28.2	29.9	29.0	25.6	27.2	25.1	23.2	24.2
14	23.9	19.4	21.5	32.0	29.1	30.4	29.3	26.5	27.8	25.4	22.8	24.0
15	24.3	20.5	22.4	31.3	28.7	29.7	30.5	27.2	28.8	25.0	23.5	24.4
16	25.4	21.6	23.4	30.7	27.6	29.1	30.6	28.1	29.4	24.9	23.4	24.1
17	26.1	22.6	24.3	30.9	28.3	29.2	30.7	28.2	29.6	24.0	22.8	23.3
18	26.1	22.7	24.5	30.3	27.1	28.6	30.2	28.3	29.2	23.9	21.7	22.8
19	25.2	22.5	23.6	28.9	26.1	27.7	29.9	26.8	28.3	23.7	20.6	22.1
20	23.3	21.7	22.5	29.4	26.0	27.6	29.8	27.6	28.7	23.2	22.3	22.8
21	25.0	21.3	23.0	29.7	27.0	28.3	29.3	27.1	28.1	24.0	22.3	23.2
22	25.9	22.3	24.0	30.4	27.4	28.6	28.7	26.1	27.4	23.7	19.0	21.1
23	25.9	23.6	24.7	28.6	26.7	27.6	28.1	24.8	26.6	19.3	17.0	18.3
24	27.0	23.6	25.2	28.1	26.0	26.9	28.1	25.5	27.0	19.9	18.3	19.1
25	25.9	24.2	25.1	27.4	25.0	26.1	29.0	26.2	27.6	20.3	18.4	19.3
26	26.0	23.9	24.8	28.7	25.3	26.7	28.6	27.2	28.0	20.0	19.1	19.6
27	27.0	23.5	25.2	27.3	25.1	26.2	29.3	26.9	28.1	20.2	17.9	19.0
28	26.6	24.4	25.5	27.7	25.4	26.5	29.4	27.1	28.3	20.7	18.0	19.4
29	26.4	24.1	25.3	28.9	25.6	27.1	29.2	26.7	28.0	21.4	18.9	20.1
30	26.8	24.6	25.7	29.8	26.3	28.0	29.8	26.9	28.3	21.6	19.2	20.4
31	---	---	---	30.5	27.2	28.8	30.1	27.4	28.6	---	---	---
MONTH	30.1	19.4	24.5	32.0	23.5	27.5	30.9	23.2	27.6	29.4	17.0	22.9

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	10.4	7.4	8.6	11.0	7.7	9.3	10.3	9.4	9.7	10.1	8.2	9.0
2	9.2	7.0	8.1	11.2	8.0	9.6	10.3	8.9	9.5	13.0	8.3	10.3
3	9.7	6.7	8.1	11.2	8.2	9.7	9.3	8.4	8.8	12.1	9.2	10.5
4	9.6	6.9	8.2	10.7	7.9	9.4	8.4	8.1	8.3	13.6	9.4	11.3
5	9.4	7.0	8.2	9.5	7.5	8.6	8.2	8.1	8.1	13.5	10.3	11.8
6	9.4	7.1	8.3	8.3	7.4	7.9	8.1	8.0	8.0	11.8	9.8	10.3
7	9.2	7.2	8.1	10.6	8.1	9.1	8.2	7.9	8.1	10.3	9.3	9.8
8	8.8	6.8	7.8	11.3	8.4	9.3	8.8	8.1	8.3	9.6	9.0	9.3
9	9.3	7.1	8.0	11.3	7.9	9.1	8.7	8.1	8.3	9.8	8.9	9.2
10	9.9	8.0	9.0	8.8	7.6	8.1	8.6	8.1	8.2	10.2	8.7	9.3
11	10.6	8.7	9.4	11.4	8.0	9.2	9.1	8.6	9.0	8.9	8.2	8.6
12	9.6	8.3	8.9	12.0	8.5	9.7	9.6	9.1	9.3	8.8	7.9	8.3
13	9.6	8.6	9.1	12.4	8.5	9.9	9.8	9.1	9.4	8.6	7.2	7.9
14	9.9	9.6	9.7	12.8	8.5	10.1	10.1	9.1	9.4	7.7	7.2	7.5
15	9.9	9.5	9.7	13.6	8.6	10.5	9.9	9.0	9.3	8.3	7.7	8.0
16	10.3	9.3	9.7	10.6	8.4	9.3	9.5	8.7	9.0	8.6	8.3	8.5
17	10.8	9.3	9.8	13.5	8.6	10.5	10.0	8.6	9.1	9.2	8.5	8.8
18	11.1	9.4	9.9	12.3	9.3	10.5	9.9	8.6	9.1	9.3	8.5	8.8
19	10.6	9.2	9.7	14.0	9.5	11.3	11.3	9.0	9.9	9.1	8.4	8.6
20	11.3	9.0	9.8	13.4	9.3	11.1	11.6	9.3	10.1	9.4	8.4	8.9
21	12.0	9.1	10.0	12.2	8.7	10.4	12.2	9.0	10.2	10.7	9.0	9.7
22	10.8	8.4	9.3	12.6	8.6	10.6	11.1	8.4	9.3	11.3	9.5	10.2
23	12.2	8.1	9.6	12.9	9.3	11.1	9.5	8.0	8.7	11.5	9.7	10.4
24	12.6	8.5	9.9	13.1	9.7	11.4	10.5	8.2	9.1	12.1	9.8	10.7
25	13.2	8.5	10.3	12.1	9.9	11.1	12.6	8.4	10.1	12.4	10.0	10.9
26	13.5	8.8	10.6	10.9	9.4	10.0	12.8	8.8	10.3	12.9	9.9	11.0
27	13.6	9.2	10.9	9.9	9.1	9.5	13.2	8.9	10.6	11.5	9.8	10.5
28	13.7	9.4	11.0	9.2	8.5	8.9	13.7	8.9	10.8	12.4	9.3	10.4
29	13.4	9.3	11.0	9.5	9.1	9.3	13.2	8.7	10.5	9.8	9.3	9.7
30	10.6	8.8	9.7	9.9	9.3	9.5	12.9	8.8	10.4	10.2	9.7	10.0
31	11.2	8.1	9.5	---	---	---	11.5	8.3	9.6	11.5	10.1	10.6
MONTH	13.7	6.7	9.4	14.0	7.4	9.8	13.7	7.9	9.3	13.6	7.2	9.6

CUMBERLAND RIVER BASIN

03428200 WEST FORK STONES RIVER AT MURFREESBORO, TN--Continued

OXYGEN, DISSOLVED (DO), 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	12.1	10.0	10.7	13.2	10.0	11.3	13.0	9.5	10.8	9.4	8.1	8.7
2	12.2	9.6	10.6	15.0	10.7	12.6	13.6	9.3	11.0	9.7	8.4	9.2
3	11.5	9.3	10.1	15.5	11.0	12.9	13.9	9.1	11.0	10.2	8.8	9.4
4	12.7	9.2	10.7	16.5	11.3	13.4	14.2	8.4	10.7	10.0	8.7	9.1
5	14.0	9.9	11.6	12.5	10.5	11.1	13.9	8.5	10.7	10.9	8.6	9.5
6	14.9	10.7	12.4	10.8	10.2	10.5	13.4	8.4	10.3	11.0	8.6	9.7
7	14.4	11.0	12.4	10.2	9.9	10.1	12.4	8.0	9.7	11.9	8.7	9.9
8	15.7	11.3	13.2	11.9	10.1	11.1	11.1	7.4	8.9	11.7	8.4	9.7
9	16.1	12.0	13.6	12.1	11.6	11.9	10.2	6.8	8.1	10.0	7.9	8.8
10	14.8	11.8	13.1	12.1	11.1	11.6	9.5	6.2	7.5	9.2	8.6	9.0
11	16.2	11.4	13.4	12.2	10.9	11.4	7.2	5.6	6.3	9.5	8.4	9.1
12	17.0	11.9	14.0	12.6	10.5	11.3	9.2	5.8	7.2	9.9	9.1	9.4
13	17.0	12.5	14.4	13.0	10.2	11.2	9.6	5.9	7.4	9.9	9.1	9.4
14	17.2	12.7	14.4	13.9	10.0	11.3	10.3	6.4	8.0	9.6	8.9	9.3
15	15.6	11.6	13.5	14.5	9.8	11.4	10.8	6.5	8.3	9.9	9.3	9.5
16	11.6	10.4	11.0	15.0	9.6	11.5	10.8	6.4	8.3	10.0	9.3	9.6
17	11.4	11.1	11.3	15.7	9.5	11.7	8.2	6.4	7.1	10.7	9.3	9.9
18	11.8	10.6	11.2	16.4	9.3	11.9	9.1	6.3	7.5	10.8	9.5	10.0
19	11.7	10.4	10.9	16.3	9.2	11.9	10.2	6.2	7.8	10.6	9.6	10.2
20	13.0	10.3	11.2	13.7	9.1	10.7	8.0	6.0	6.9	11.4	10.1	10.6
21	14.0	10.3	11.6	15.5	8.8	11.3	8.2	7.3	7.8	11.5	9.7	10.4
22	15.0	10.7	12.2	15.0	8.9	11.3	8.5	8.0	8.3	11.9	9.3	10.3
23	14.4	10.5	11.8	13.6	8.5	10.6	8.8	8.3	8.5	12.2	8.9	10.0
24	16.1	10.2	12.4	12.6	8.2	10.0	9.9	8.5	9.0	13.0	8.5	10.1
25	16.5	10.6	12.7	12.4	8.6	10.1	10.5	8.9	9.5	13.0	7.7	9.6
26	16.6	10.5	12.8	11.6	8.4	9.7	11.0	8.7	9.6	10.9	7.1	8.6
27	13.3	10.0	11.3	9.5	8.1	8.8	9.9	8.5	9.2	11.4	7.0	8.7
28	12.2	9.6	10.7	9.7	9.1	9.5	11.9	8.8	10.0	10.4	7.0	8.4
29	---	---	---	10.6	9.5	9.9	12.3	8.6	10.0	10.5	6.9	8.3
30	---	---	---	11.6	9.6	10.3	11.5	8.1	9.6	11.9	6.9	8.9
31	---	---	---	12.0	9.5	10.4	---	---	---	10.7	6.9	8.5
MONTH	17.2	9.2	12.1	16.5	8.1	11.1	14.2	5.6	8.8	13.0	6.9	9.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.8	6.8	8.3	8.7	5.2	6.7	10.8	5.4	7.8	8.0	4.7	6.2
2	10.2	7.0	8.2	8.5	5.2	6.8	10.3	5.3	7.6	8.2	4.9	6.3
3	10.4	6.4	8.0	9.0	5.2	7.1	8.7	5.2	7.0	8.5	5.6	6.7
4	11.0	6.2	8.1	8.3	4.9	6.6	9.2	5.3	7.3	8.9	5.9	7.1
5	10.6	5.9	7.9	8.6	5.7	7.0	7.8	5.1	6.3	9.0	5.9	7.1
6	11.0	5.7	7.8	8.5	4.9	6.4	8.4	5.6	6.7	8.9	5.6	6.9
7	10.2	5.3	7.3	8.9	4.9	6.6	8.9	5.1	6.7	9.0	5.5	6.7
8	10.2	5.0	7.2	9.3	4.8	6.8	7.1	5.5	6.3	9.5	4.8	6.6
9	10.2	4.7	7.1	8.0	4.6	6.3	8.5	5.6	6.9	6.5	4.8	5.6
10	9.4	4.4	6.7	7.6	4.5	6.1	7.6	6.9	7.3	7.2	4.3	5.4
11	6.6	4.2	5.4	8.1	4.5	6.2	8.3	6.7	7.3	8.7	4.7	6.2
12	8.0	5.4	7.0	7.9	4.5	6.1	9.6	6.4	7.5	7.5	4.6	5.7
13	9.3	7.2	8.0	7.5	4.3	5.8	10.8	6.1	8.0	8.1	3.8	5.7
14	10.2	6.9	8.0	6.9	4.0	5.3	12.4	6.0	8.4	13.1	5.6	8.6
15	10.5	6.5	8.0	7.0	3.8	5.0	13.0	5.7	8.6	12.7	5.2	8.9
16	11.0	6.2	8.2	7.2	3.9	5.3	11.5	5.1	7.9	9.7	6.0	7.1
17	11.3	5.9	8.3	6.5	4.2	5.1	10.4	4.9	7.4	8.8	5.7	6.9
18	11.5	5.8	8.4	7.9	3.9	5.7	7.5	4.6	6.1	9.7	5.9	7.4
19	8.8	5.7	7.2	7.5	4.4	5.9	9.1	4.9	6.6	10.1	6.4	7.9
20	9.3	6.2	7.4	8.2	4.9	6.3	8.5	4.3	6.2	8.4	6.1	7.2
21	11.4	6.2	8.3	7.7	5.0	6.2	10.0	4.3	6.6	9.1	5.9	7.5
22	12.0	6.2	8.5	7.5	4.6	5.9	9.9	5.5	7.2	8.5	6.0	7.4
23	10.7	6.0	7.9	8.5	4.9	6.3	10.4	5.2	7.4	9.7	7.4	8.6
24	11.5	5.9	8.1	7.7	4.3	6.1	9.2	5.1	7.2	9.5	7.5	8.6
25	8.7	5.9	7.0	7.7	6.7	7.1	9.4	5.0	7.2	9.7	7.5	8.7
26	8.7	5.3	6.8	8.3	6.3	7.1	8.6	5.1	6.9	9.2	7.3	8.2
27	8.9	5.9	7.1	7.9	6.1	6.9	8.5	5.2	6.8	9.8	7.4	8.6
28	9.0	5.6	7.0	8.7	6.1	7.1	8.0	5.2	6.6	9.6	7.5	8.7
29	8.7	5.4	6.8	9.4	6.1	7.4	8.5	5.3	6.8	9.3	7.5	8.3
30	7.9	5.1	6.6	10.4	6.1	7.9	8.3	5.4	6.6	9.2	7.2	7.9
31	---	---	---	10.6	6.0	8.0	8.2	5.0	6.4	---	---	---
MONTH	12.0	4.2	7.6	10.6	3.8	6.4	13.0	4.3	7.1	13.1	3.8	7.3

CUMBERLAND RIVER BASIN

03430147 STONERS CREEK NEAR HERMITAGE, TN

LOCATION.--Lat 36°11'40", long 86°36'28", Davidson County, Hydrologic Unit 05130203, on downstream end of pier at center of culvert under Andrew Jackson Parkway, 0.8 mi southwest of Hermitage.

DRAINAGE AREA.--20.6 mi².

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

GAGE.--Data logger. Datum of gage is 411.70 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT PERIOD.--Peak discharges greater than base discharge of 800 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 27	2230	*3,240	*11.14	May 14	1145	1,610	8.32
Jan. 6	1630	1,140	7.29	May 15	0400	2,080	9.20
Jan. 15	1200	1,180	7.40	May 18	2230	899	6.69
Mar. 7	2145	2,080	9.20				

Minimum discharge, 0.43 ft ³/s, Sept. 6, 7, 8.

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	3.6	3.9	28	6.3	19	12	9.1	26	15	16	1.8	.50
2	3.1	3.5	21	5.8	18	11	8.7	23	48	6.9	1.7	.49
3	4.4	2.9	18	5.7	17	11	8.7	15	21	5.0	2.0	.47
4	3.3	2.8	128	5.6	15	10	8.4	14	15	6.4	1.6	.46
5	2.8	7.9	77	5.6	14	37	8.0	12	12	7.9	9.3	.45
6	2.5	11	47	349	13	88	8.3	10	11	5.1	13	.45
7	2.1	6.1	34	135	13	567	7.9	8.7	10	3.8	10	.45
8	2.0	4.6	26	63	12	527	7.8	7.5	8.3	2.9	35	.44
9	23	6.6	23	43	11	141	7.5	109	7.1	2.4	17	.44
10	11	7.9	233	32	11	83	7.2	40	6.2	2.1	9.8	.45
11	7.2	7.3	102	76	11	58	8.0	22	28	1.8	6.0	.46
12	12	6.3	58	57	9.9	44	17	16	34	1.5	4.3	65
13	70	5.4	41	41	8.8	35	8.3	13	14	1.2	3.2	74
14	65	4.8	31	151	12	29	6.8	534	10	1.1	2.5	20
15	34	4.3	24	392	166	24	6.0	649	8.0	.95	2.0	9.2
16	21	4.6	25	144	98	21	5.5	115	6.6	.85	4.5	66
17	15	4.3	26	80	65	18	9.5	73	5.5	1.4	2.4	38
18	12	4.2	21	57	48	16	13	316	4.6	1.2	1.5	16
19	9.9	3.6	18	80	38	15	8.5	217	4.6	.79	1.2	9.8
20	8.3	3.4	16	58	31	17	21	80	5.1	.71	15	7.1
21	7.5	3.3	14	46	25	17	140	50	4.0	.65	4.7	6.2
22	6.7	3.0	13	38	21	14	35	35	3.4	32	2.2	4.4
23	6.2	2.8	12	32	20	12	32	26	3.5	11	1.5	3.6
24	5.3	2.7	11	27	17	11	33	20	2.9	9.0	1.1	3.0
25	5.0	2.6	10	23	15	10	21	16	6.3	8.2	.89	2.7
26	4.2	3.4	9.1	20	14	9.1	16	14	3.2	10	.77	4.7
27	4.0	437	8.5	21	14	12	14	31	2.7	13	.61	3.5
28	3.7	375	7.9	32	13	9.3	12	48	2.2	5.4	.56	2.8
29	3.3	65	7.4	28	---	8.3	11	22	3.0	3.7	.55	2.4
30	3.4	40	7.0	24	---	7.7	11	15	21	2.6	.52	2.0
31	3.3	---	6.8	21	---	8.3	---	14	---	2.0	.51	---
TOTAL	364.8	1040.2	1103.7	2099.0	769.7	1882.7	510.2	2591.2	326.2	167.55	157.71	345.46
MEAN	11.8	34.7	35.6	67.7	27.5	60.7	17.0	83.6	10.9	5.40	5.09	11.5
MAX	70	437	233	392	166	567	140	649	48	32	35	74
MIN	2.0	2.6	6.8	5.6	8.8	7.7	5.5	7.5	2.2	.65	.51	.44
CFSM	.57	1.68	1.73	3.29	1.33	2.95	.83	4.06	.53	.26	.25	.56
IN.	.66	1.88	1.99	3.79	1.39	3.40	.92	4.68	.59	.30	.28	.62

CUMBERLAND RIVER BASIN

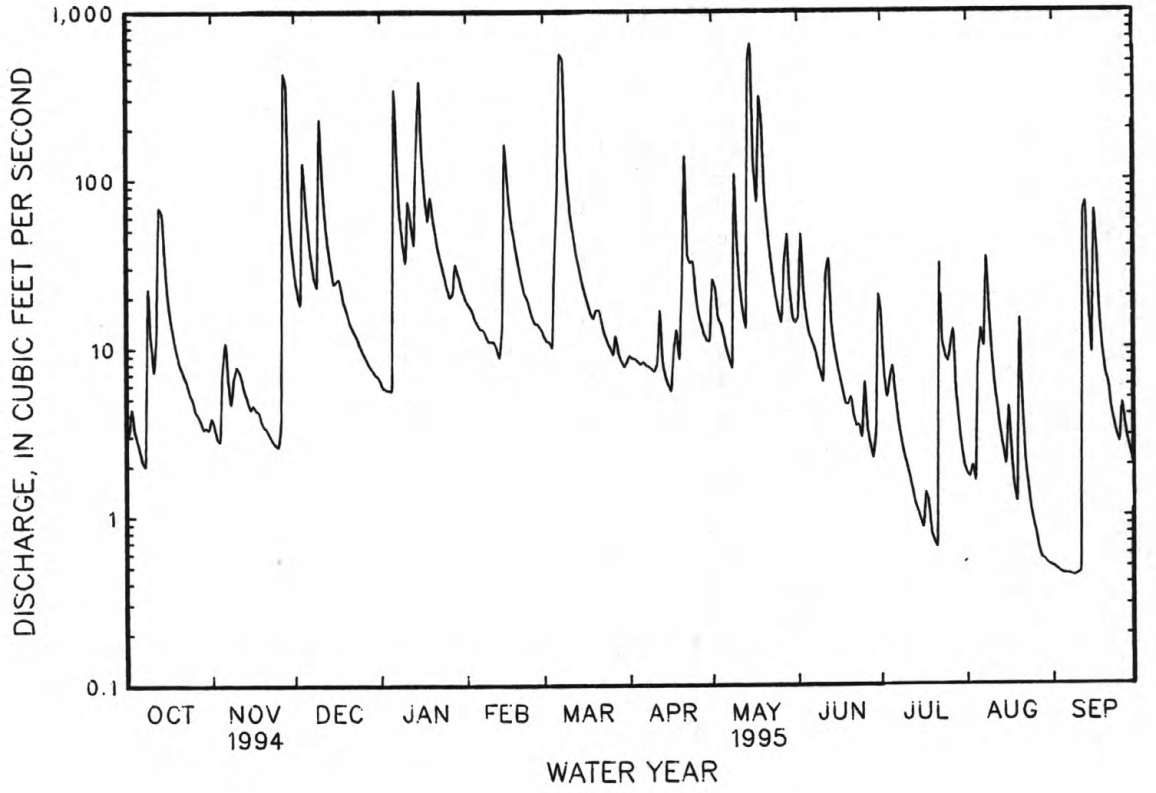
03430147 STONERS CREEK NEAR HERMITAGE, TN--Continued

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

MEAN	6.04	21.8	46.7	55.1	52.0	75.9	42.3	31.6	12.2	18.8	5.78	6.43
MAX	11.8	34.7	74.7	67.7	119	107	112	83.6	22.6	62.0	13.3	11.5
(WY)	1995	1995	1994	1995	1994	1994	1994	1995	1992	1992	1994	1995
MIN	2.92	8.33	29.9	39.4	27.5	54.4	10.6	5.24	7.22	3.11	.79	1.46
(WY)	1994	1994	1993	1993	1995	1992	1992	1992	1993	1993	1993	1993

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1992 - 1995	
ANNUAL TOTAL	16000.7		11358.42			
ANNUAL MEAN	43.8		31.1		32.8	
HIGHEST ANNUAL MEAN					44.2	1994
LOWEST ANNUAL MEAN					23.1	1993
HIGHEST DAILY MEAN	983	Apr 15	649	May 15	1260	Jul 3 1992
LOWEST DAILY MEAN	1.0	Aug 13	.44	Sep 8	.29	Aug 12 1993
ANNUAL SEVEN-DAY MINIMUM	1.6	Sep 16	.45	Sep 4	.34	Aug 27 1993
INSTANTANEOUS PEAK FLOW			3240	Nov 27	a4220	Jul 3 1992
INSTANTANEOUS PEAK STAGE			11.14	Nov 27	12.60	Jul 3 1992
INSTANTANEOUS LOW FLOW			b.43	Sep 6	.27	Sep 12 1993
ANNUAL RUNOFF (CFSM)	2.13		1.51		1.59	
ANNUAL RUNOFF (INCHES)	28.89		20.51		21.65	
10 PERCENT EXCEEDS	93		65		64	
50 PERCENT EXCEEDS	12		10		10	
90 PERCENT EXCEEDS	2.2		1.9		1.4	

a From rating curve extended above 500 ft³/s on basis of contracted-opening measurement of peak flow.
b Also occurred Sept. 7, 8.



CUMBERLAND RIVER BASIN

03430550 MILL CREEK NEAR NOLENSVILLE, TN

LOCATION.--Lat 36°00'33", long 86°42'06", Davidson County, Hydrologic Unit 05130202, near left bank on downstream side of bridge on US Highway 31A, 800 ft upstream from Hoit Creek, 0.6 mi upstream from Owl Creek, 4.6 mi northwest of Nolensville, and at mile 19.6.

DRAINAGE AREA.--40.5 mi².

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

REVISED RECORD.--WRD TN-94-1: 1992 (M).

GAGE.--Data logger. Datum of gage is 527.74 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-qualtiy data.

EXTREMES FOR CURENT YEAR.--Peak discharges greater than base discharge of 2,400 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 27	2345	5,530	12.29	Mar. 7	2100	7,350	13.72
Dec. 10	1400	2,880	9.68	May 9	1315	5,660	12.40
Jan. 6	1645	3,550	10.44	May 14	1100	*12,600	*17.05
Jan. 15	0915	2,880	9.68	May 8	1500	6,580	13.14

Minimum daily discharge, 0.27 ft³/s, July 21.

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	7.0	44	13	52	24	16	200	18	2.8	2.9	1.7
2	3.2	5.7	36	11	46	22	15	142	32	2.6	8.1	1.5
3	4.1	5.2	40	11	40	21	13	72	18	2.1	3.8	1.4
4	4.3	4.7	479	10	35	20	12	58	13	1.9	2.6	1.2
5	4.7	20	196	8.6	31	177	11	45	9.9	6.5	30	1.2
6	4.8	58	100	841	28	205	11	35	8.7	4.6	28	1.2
7	9.5	29	67	279	27	1790	9.9	30	16	3.0	27	1.0
8	15	22	49	135	24	1160	9.0	25	8.8	2.3	680	.99
9	38	26	44	88	23	269	8.2	959	6.3	1.9	115	.95
10	19	45	952	65	23	169	7.4	140	5.1	1.8	46	.89
11	11	33	261	114	21	122	8.3	70	24	1.5	34	2.0
12	12	26	141	103	19	89	18	48	43	1.3	21	6.7
13	121	22	94	76	17	69	11	38	17	1.0	13	22
14	101	19	70	487	19	56	8.9	2430	11	.68	9.3	7.4
15	46	16	56	784	301	48	7.8	253	8.1	.91	7.3	4.1
16	29	15	49	295	276	42	7.0	181	6.4	1.2	6.0	90
17	21	13	44	174	166	37	22	131	5.4	1.2	5.3	52
18	16	12	38	119	110	33	24	276	4.7	1.0	4.9	19
19	13	10	34	213	81	30	17	213	4.3	.46	4.4	11
20	11	8.8	30	151	66	33	42	124	4.7	.28	4.6	7.3
21	9.5	7.6	27	107	54	35	425	80	4.2	.27	5.1	5.9
22	21	6.7	25	81	46	28	96	59	3.5	.88	4.0	4.7
23	24	5.9	24	66	41	25	77	46	4.6	2.6	3.2	4.0
24	15	5.7	22	53	35	22	71	36	6.1	4.3	2.9	3.6
25	12	5.7	20	46	32	20	48	30	4.6	4.1	2.8	3.5
26	9.3	6.3	18	41	29	19	38	25	4.1	2.2	3.0	4.0
27	7.9	615	17	39	28	29	34	55	3.2	7.2	2.7	3.9
28	7.2	596	16	133	26	23	28	28	2.7	14	1.9	3.5
29	6.5	105	14	154	---	20	23	22	2.4	6.7	1.8	3.3
30	6.4	61	14	81	---	18	31	18	2.7	3.6	1.8	3.0
31	6.2	---	13	63	---	17	---	16	---	2.6	1.8	---
TOTAL	612.1	1812.3	3034	4841.6	1696	4672	1149.5	5885	302.5	87.48	1084.2	272.93
MEAN	19.7	60.4	97.9	156	60.6	151	38.3	190	10.1	2.82	35.0	9.10
MAX	121	615	952	841	301	1790	425	2430	43	14	680	90
MIN	3.2	4.7	13	8.6	17	17	7.0	16	2.4	.27	1.8	.89
CFSM	.49	1.49	2.41	3.85	1.49	3.72	.95	4.68	.25	.07	.86	.22
IN.	.56	1.66	2.78	4.44	1.56	4.29	1.06	5.40	.28	.08	1.00	.25

CUMBERLAND RIVER BASIN

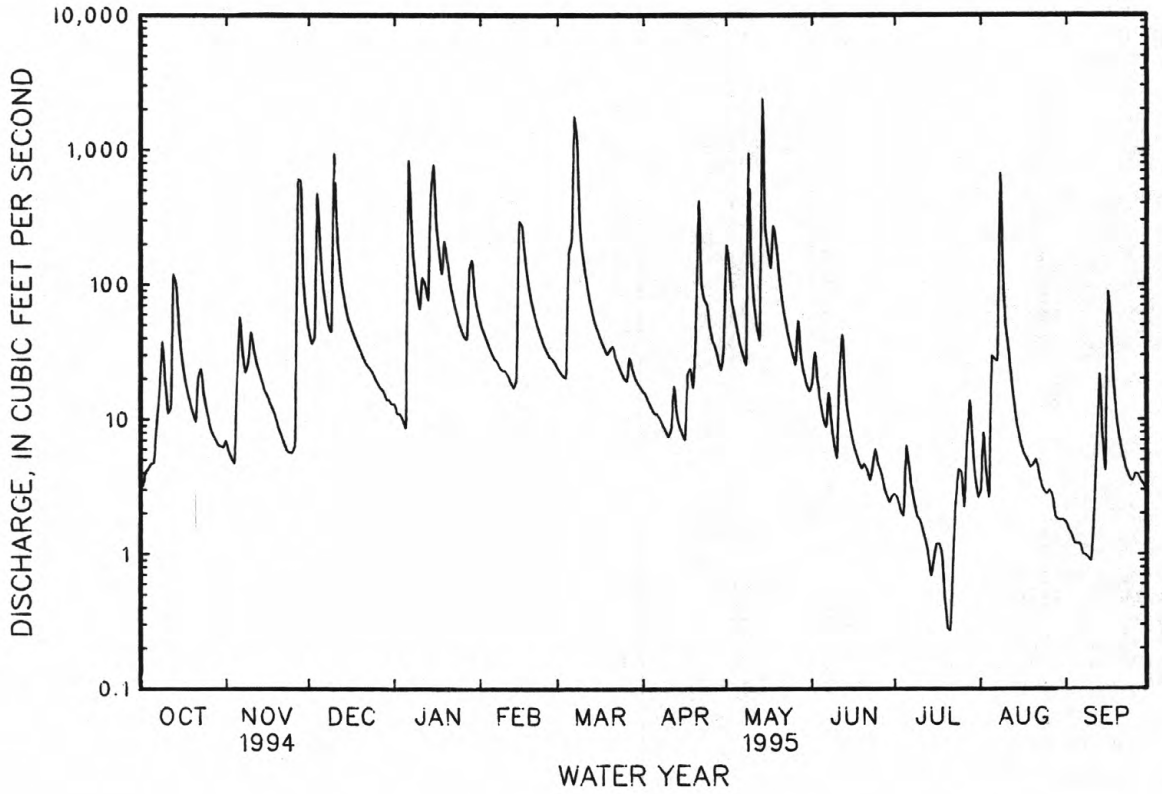
03430550 MILL CREEK NEAR NOLENSVILLE, TN--Continued

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

MEAN	8.67	33.8	89.8	123	131	204	80.6	67.6	32.4	21.1	13.3	8.29
MAX	19.7	60.4	119	156	263	359	209	190	73.6	58.8	35.0	16.1
(WY)	1995	1995	1994	1995	1994	1994	1994	1995	1994	1992	1995	1994
MIN	1.18	2.83	52.8	64.5	60.6	150	20.3	8.40	9.59	2.82	1.73	3.21
(WY)	1994	1994	1993	1993	1995	1992	1992	1992	1993	1995	1993	1993

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1992 - 1995	
ANNUAL TOTAL	39645.4		25449.61			
ANNUAL MEAN	109		69.7		71.7	
HIGHEST ANNUAL MEAN					104	1994
LOWEST ANNUAL MEAN					41.3	1993
HIGHEST DAILY MEAN	4070	Mar 27	2430	May 14	4070	Mar 27 1994
LOWEST DAILY MEAN	1.4	Jun 20	.27	Jul 21	a.08	Sep 13 1993
ANNUAL SEVEN-DAY MINIMUM	2.1	Sep 8	.76	Jul 16	.10	Sep 9 1993
INSTANTANEOUS PEAK FLOW			12600	May 14	12600	May 14 1995
INSTANTANEOUS PEAK STAGE			17.05	May 14	17.05	May 14 1995
ANNUAL RUNOFF (CFSM)	2.68		1.72		1.77	
ANNUAL RUNOFF (INCHES)	36.39		23.36		24.03	
10 PERCENT EXCEEDS	214		137		133	
50 PERCENT EXCEEDS	27		19		16	
90 PERCENT EXCEEDS	3.3		2.6		1.6	

a Also occurred Sept. 14, 1993.



CUMBERLAND RIVER BASIN

03431000 MILL CREEK NEAR ANTIOCH, TN

LOCATION.--Lat 36°04'54", long 86°40'50", Davidson County, Hydrologic Unit 05130202, on left bank, 10 ft downstream from Franklin Limestone Road bridge, 900 ft upstream from Louisville and Nashville spur track bridge, 1.6 mi north of Antioch, 2.1 mi downstream from Whittemore Branch, 8.2 mi southeast of the State Capitol in Nashville, and at mile 11.0.

DRAINAGE AREA.--64.0 mi².

PERIOD OF RECORD.--October 1953 to September 1961. Annual maximum, water years 1962-63. October 1963 to September 1975. Annual maximum, water years 1976-92. October 1992 to current year.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 472.57 ft above sea level. Dec. 5, 1961, to Nov. 29, 1963, Oct. 1976 to Sept. 1992, crest-stage gage at same site and datum.

REMARKS.--Records good. Minor diversion from gage pool for industrial use. Periodic observations of water temperature and specfic conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage since at least 1920, that of May 4, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 28	0200	3,430	10.67	May 14	1530	*6,590	*14.35
May 9	1530	3,180	10.27	Aug. 8	1730	3,010	10.00

Minimum daily discharge, 0.94 ft³/s, Sept. 10.

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	5.9	20	87	22	92	39	21	239	34	8.2	4.1	2.3
2	5.5	17	66	21	80	36	20	221	61	5.1	5.2	1.9
3	7.4	15	60	19	68	e33	20	106	33	4.4	6.2	1.7
4	6.8	14	654	20	61	e31	19	87	26	4.2	3.9	1.5
5	7.0	35	314	19	53	e230	17	66	22	14	36	1.5
6	6.0	87	176	891	46	e265	17	51	20	8.6	38	1.3
7	6.9	40	130	420	43	e1200	17	40	26	5.6	22	1.3
8	7.9	29	101	191	41	e700	15	33	21	4.4	563	1.1
9	47	36	87	136	35	437	14	761	17	14	155	1.0
10	24	60	1090	106	35	262	15	203	16	11	68	.94
11	14	45	400	154	36	182	18	99	48	4.5	44	1.5
12	22	34	207	154	32	136	39	68	60	4.4	32	52
13	185	30	147	120	29	105	20	51	22	3.3	23	102
14	171	27	115	616	36	86	17	2190	15	2.7	18	29
15	86	23	89	1060	428	72	16	356	12	2.6	15	15
16	54	22	79	429	375	61	15	303	9.7	2.2	12	175
17	38	21	69	249	237	53	59	210	8.1	2.2	9.9	146
18	30	19	57	179	168	47	63	444	6.8	2.3	8.3	43
19	27	17	48	294	135	41	32	342	6.5	1.7	7.9	26
20	25	16	43	214	114	47	88	188	7.1	1.8	9.6	19
21	22	17	38	162	93	56	677	130	6.7	1.6	10	15
22	56	15	36	133	77	41	163	97	6.0	8.8	8.2	11
23	60	13	33	114	67	35	120	74	9.3	5.5	5.0	9.2
24	33	12	31	93	59	30	117	59	6.9	16	4.1	7.8
25	27	14	29	78	52	27	77	47	57	7.5	3.7	6.9
26	23	15	26	68	51	25	57	37	9.8	5.5	5.5	11
27	20	496	24	64	48	51	49	90	7.3	5.2	3.9	7.9
28	19	941	24	183	44	32	41	50	5.8	27	3.5	7.0
29	18	178	23	265	---	26	33	35	4.7	14	3.0	5.9
30	17	122	22	138	---	25	42	28	6.3	6.6	2.4	5.2
31	18	---	22	109	---	23	---	27	---	5.2	2.3	---
TOTAL	1089.4	2430	4327	6721	2635	4434	1918	6732	591.0	210.1	1132.7	709.94
MEAN	35.1	81.0	140	217	94.1	143	63.9	217	19.7	6.78	36.5	23.7
MAX	185	941	1090	1060	428	1200	677	2190	61	27	563	175
MIN	5.5	12	22	19	29	23	14	27	4.7	1.6	2.3	.94
CFSM	.55	1.27	2.18	3.39	1.47	2.23	1.00	3.39	.31	.11	.57	.37
IN.	.63	1.41	2.52	3.91	1.53	2.58	1.11	3.91	.34	.12	.66	.41

e Estimated

CUMBERLAND RIVER BASIN

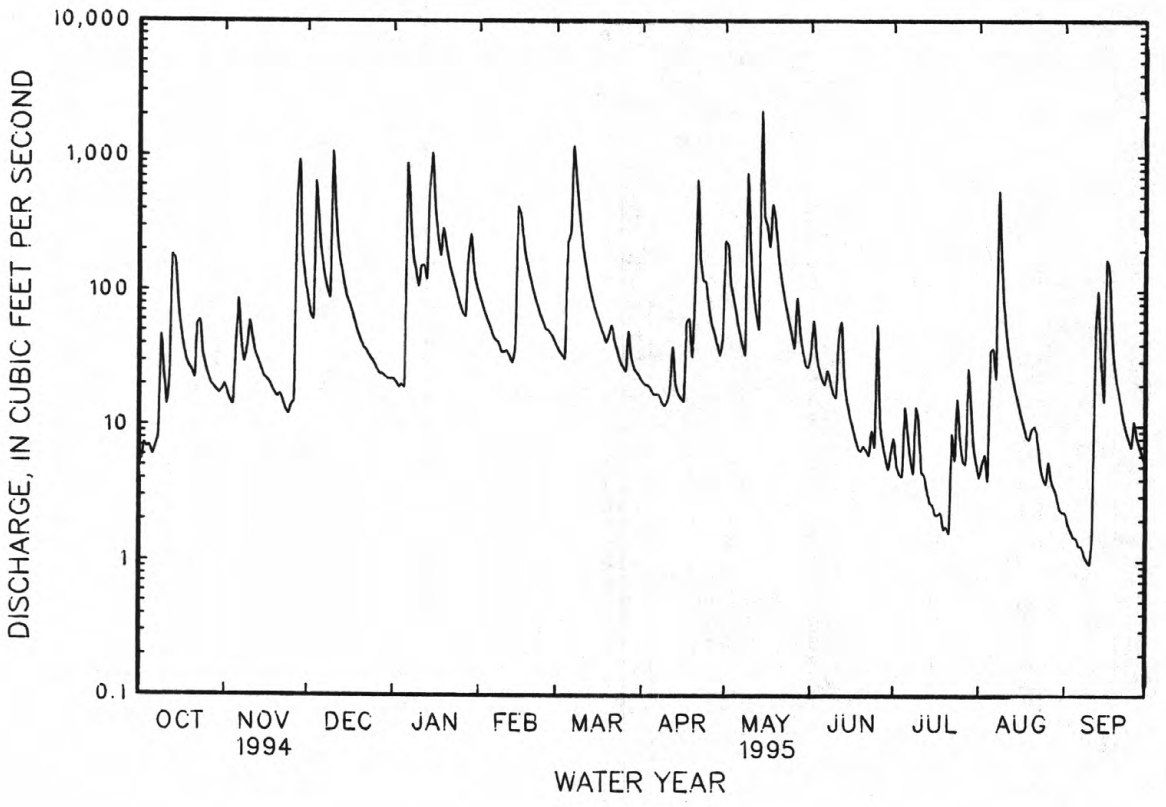
03431000 MILL CREEK NEAR ANTIOCH, TN--Continued

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

MEAN	16.7	55.4	127	174	210	241	156	87.7	55.6	17.4	17.4	17.6
MAX	69.6	225	439	544	512	694	348	245	318	63.9	86.0	103
(WY)	1958	1958	1973	1974	1956	1975	1973	1973	1960	1972	1972	1974
MIN	.000	.000	2.85	50.2	44.9	77.5	20.9	13.8	2.70	.017	1.14	.085
(WY)	1954	1954	1954	1955	1968	1966	1967	1960	1956	1954	1969	1956

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1954 - 1995	
ANNUAL TOTAL	50674.3		32930.14			
ANNUAL MEAN	139		90.2		97.3	
HIGHEST ANNUAL MEAN					182	1973
LOWEST ANNUAL MEAN					49.8	1966
HIGHEST DAILY MEAN	3700	Mar 27	2190	May 14	7440	Mar 21 1955
LOWEST DAILY MEAN	2.0	Sep 20	.94	Sep 10	a.00	Oct 1 1953
ANNUAL SEVEN-DAY MINIMUM	3.0	Sep 16	1.2	Sep 4	.00	Oct 1 1953
INSTANTANEOUS PEAK FLOW			6590	May 14	30100	May 4 1979
INSTANTANEOUS PEAK STAGE			14.35	May 14	23.78	May 4 1979
ANNUAL RUNOFF (CFSM)	2.17		1.41		1.52	
ANNUAL RUNOFF (INCHES)	29.45		19.14		20.66	
10 PERCENT EXCEEDS	316		205		212	
50 PERCENT EXCEEDS	40		31		23	
90 PERCENT EXCEEDS	6.7		5.1		1.0	

a Also occurred one or more days 1953-56, 1964-65, 1994.



CUMBERLAND RIVER BASIN

03431300 BROWNS CREEK AT STATE FAIRGROUNDS, AT NASHVILLE, TN

LOCATION.--Lat 36°07'47", long 86°45'40", Davidson County, Hydrologic Unit 05130202, near center of span on downstream side of bridge on access road to pit area of the race track at State Fairgrounds, 300 ft west of Craighead Street, 0.3 mi upstream from bridge on U.S. Highway 31A and 41A, and 2.8 mi southwest of the State capitol in Nashville.

DRAINAGE AREA.--11.8 mi².

PERIOD OF RECORD.--December 1963 to September 1975. August 1993 to current year.

REVISED RECORDS.--WDR TN-94-1: 1975 (p).

GAGE.--Data collection platform. Datum of gage is 439.81 ft above sea level.

REMARKS.--Records good. Periodic observations of water temperature and specfic conductance are published in this report as miscellaneous water-quality data.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 27	2115	*2,210	*8.20	May 14	0700	627	5.06
Jan. 6	1500	541	4.78	May 16	1345	555	4.86
Mar. 7	2015	833	5.63	May 18	1020	785	5.46
May 9	0930	685	5.22				

Minimum discharge, 0.46 ft³/s, Sept. 8, 9, 10.

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	2.4	2.5	24	1.7	5.8	4.6	3.7	24	12	3.8	2.1	1.1
2	2.8	1.9	17	1.6	6.1	4.1	3.6	11	13	2.2	1.8	.87
3	6.1	1.8	12	1.7	4.9	4.0	3.3	7.4	7.4	2.4	1.5	.79
4	2.4	1.6	65	1.5	4.4	5.2	3.2	8.7	6.1	19	2.5	.71
5	2.1	20	49	1.5	3.8	16	3.1	4.7	e5.5	7.3	38	.64
6	1.9	7.4	36	152	3.4	29	2.9	3.9	e7.3	3.6	16	.62
7	1.7	4.9	24	53	3.6	243	2.8	3.1	4.7	2.7	22	.57
8	1.5	3.9	18	32	3.0	184	2.7	2.8	3.8	2.2	33	.49
9	38	12	18	22	2.8	81	2.6	e107	3.2	2.0	15	.47
10	8.0	6.9	100	16	3.0	56	2.5	28	2.8	1.6	22	.70
11	5.5	5.3	53	27	2.7	43	4.9	18	31	1.5	46	.58
12	18	4.5	36	17	2.5	34	9.5	13	18	1.4	26	26
13	37	3.8	25	15	2.5	27	3.5	9.3	8.2	1.2	14	26
14	24	3.4	19	72	10	22	3.0	91	5.8	1.1	18	6.8
15	14	3.1	14	119	50	19	2.7	28	4.5	.94	7.8	3.8
16	9.5	3.6	14	65	33	16	2.3	62	3.6	.83	8.2	32
17	7.2	2.7	9.9	44	26	13	e9.0	35	3.0	.76	5.5	12
18	5.8	2.5	7.8	32	22	11	e8.0	213	2.6	.66	9.0	6.5
19	5.2	2.3	6.5	70	18	9.3	3.2	100	3.7	.70	4.4	4.5
20	4.3	2.0	5.5	41	16	14	36	57	3.1	.69	12	4.1
21	3.8	2.2	4.6	31	13	9.5	36	41	2.4	.68	4.7	7.4
22	6.7	1.9	4.0	24	11	7.8	13	29	2.0	6.2	3.3	3.2
23	3.8	1.8	3.5	19	9.7	6.9	17	24	4.2	4.9	2.6	2.7
24	3.2	1.7	3.0	14	8.0	5.9	10	19	2.3	11	2.3	2.4
25	2.8	1.6	2.7	12	7.1	5.3	7.3	14	8.9	3.3	2.1	2.2
26	2.6	8.2	2.6	9.7	6.2	4.9	5.5	15	2.8	4.6	1.9	8.5
27	2.4	346	2.3	11	6.4	14	6.0	25	2.2	10	1.7	2.7
28	2.2	147	2.2	15	5.2	5.7	4.3	37	1.8	25	1.5	2.3
29	2.0	58	2.0	9.0	---	4.9	3.7	13	4.5	6.5	1.3	1.9
30	2.4	35	1.9	7.5	---	4.5	8.9	9.6	15	3.6	1.2	1.7
31	4.0	---	1.7	6.7	---	4.1	---	13	---	2.6	1.3	---
TOTAL	233.3	699.5	584.2	943.9	290.1	908.7	224.2	1066.5	195.4	134.96	328.7	164.24
MEAN	7.53	23.3	18.8	30.4	10.4	29.3	7.47	34.4	6.51	4.35	10.6	5.47
MAX	38	346	100	152	50	243	36	213	31	25	46	32
MIN	1.5	1.6	1.7	1.5	2.5	4.0	2.3	2.8	1.8	.66	1.2	.47
CFSM	.64	1.98	1.60	2.58	.88	2.48	.63	2.92	.55	.37	.90	.46
IN.	.74	2.21	1.84	2.98	.91	2.86	.71	3.36	.62	.43	1.04	.52

e Estimated

CUMBERLAND RIVER BASIN

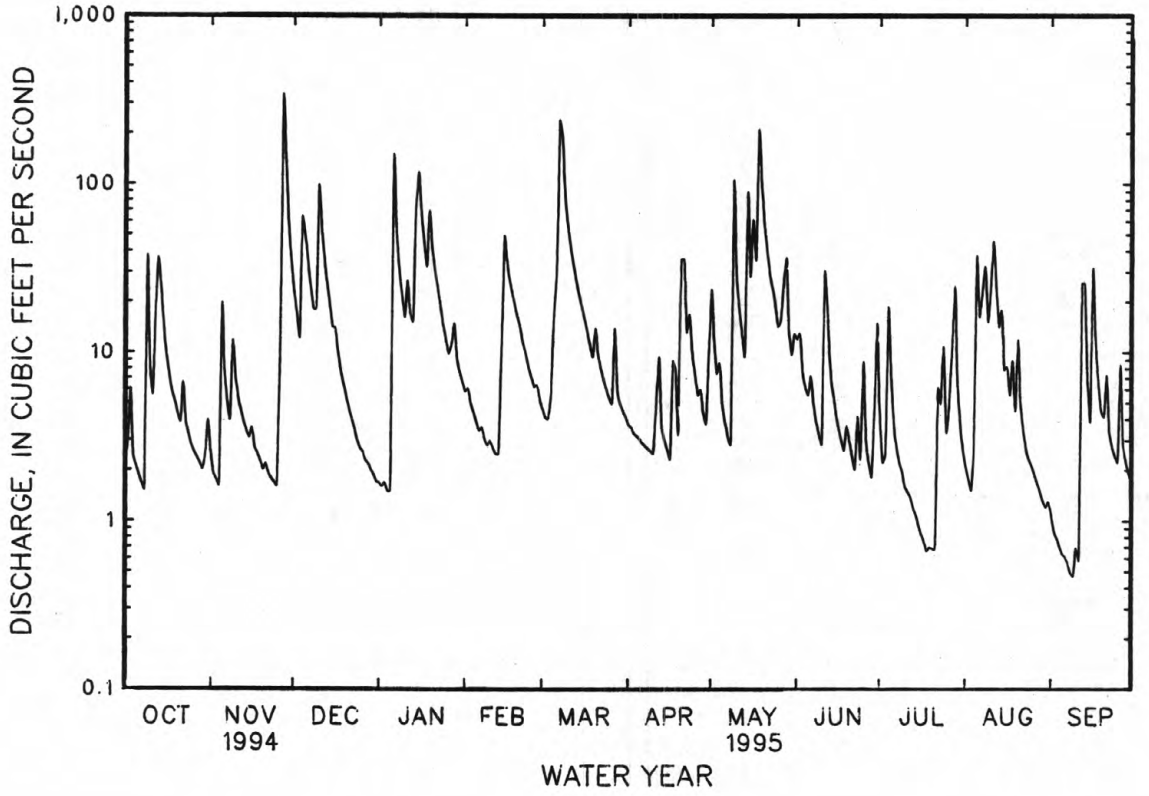
03431300 BROWNS CREEK AT STATE FAIRGROUNDS, AT NASHVILLE, TN--Continued

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

MEAN	3.92	12.9	21.5	26.4	26.2	37.8	25.8	18.6	10.7	6.26	6.55	5.60
MAX	7.99	34.8	63.8	86.5	49.2	102	50.3	38.5	41.2	19.8	23.2	21.0
(WY)	1973	1974	1973	1974	1969	1975	1973	1970	1974	1967	1971	1974
MIN	.71	1.36	1.28	5.79	5.87	9.70	4.36	5.42	1.71	.96	1.65	.92
(WY)	1966	1966	1966	1966	1967	1966	1967	1971	1966	1964	1968	1965

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1964 - 1995	
ANNUAL TOTAL	7921.2		5773.70			
ANNUAL MEAN	21.7		15.8		17.1	
HIGHEST ANNUAL MEAN					29.6	1973
LOWEST ANNUAL MEAN					6.67	1966
HIGHEST DAILY MEAN	346	Nov 27	346	Nov 27	696	Mar 12 1975
LOWEST DAILY MEAN	1.1	Sep 21	.47	Sep 9	.29	Sep 5 1973
ANNUAL SEVEN-DAY MINIMUM	1.6	Sep 16	.58	Sep 5	.36	Sep 2 1973
INSTANTANEOUS PEAK FLOW			2210	Nov 27	2210	Nov 27 1994
INSTANTANEOUS PEAK STAGE			8.20	Nov 27	8.20	Nov 27 1994
INSTANTANEOUS LOW FLOW			a.46	Sep 8	.15	Sep 5 1973
ANNUAL RUNOFF (CFSM)	1.84		1.34		1.45	
ANNUAL RUNOFF (INCHES)	24.97		18.20		19.65	
10 PERCENT EXCEEDS	49		36		39	
50 PERCENT EXCEEDS	8.3		5.5		5.9	
90 PERCENT EXCEEDS	2.1		1.7		1.2	

a Also occurred Sept. 9, 10.



CUMBERLAND RIVER BASIN

034315005 CUMBERLAND RIVER AT WOODLAND STREET AT NASHVILLE, TN

LOCATION.--Lat 36°10'02", long 86°46'35", Davidson County, Hydrologic Unit 05130202, on left bank at northwest corner of Woodland Street Bridge, at Nashville, 3.5 mi downstream from Mill Creek, and at mile 190.9.

DRAINAGE AREA.--12,860 mi², approximately.

PERIOD OF RECORD.--May 1992 to current year. October 1892 to September 1954, monthly and yearly discharges published in WSP 1306 and 1726, October 1986 to September 1991, gage height, published as "at Nashville." Gage height record collected in this vicinity since 1873 are contained in reports of U.S. Weather Bureau.

GAGE.--Data collection platform and acoustic velocity meter. Datum of gage is 368.17 ft above sea level. Prior to fall of 1922 inclined and vertical staff gage at site 350 ft downstream and from fall of 1922 to Apr. 9, 1940, staff gage at site 400 ft downstream, both gages at same datum. Nov. 1, 1930, to Sept. 30, 1954, upper staff gage at former lock 1, 2.7 mi downstream was used as auxiliary gage. Prior to May 1992 at site 0.2 mi upstream at same datum.

REMARKS.--Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 203,000 ft³/s, Jan. 1, 1927, gage height 56.2 ft; minimum gage height observed after first filling of pool at dam 1, 6.1 ft Oct. 19, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 94,600 ft³/s, at 2230 hours Mar. 8, gage height, 21.26 ft; minimum daily discharge, 4,470 ft³/s, Jan. 4; minimum gage height, 16.36 ft, Sept. 28.

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	10200	5640	32500	7580	11400	16300	8310	9710	24300	12500	10300	11100
2	8110	5370	34400	5420	11500	15300	7480	e15000	24600	14700	12100	10800
3	6080	5200	28900	5280	15900	15000	8000	19600	36100	10300	16500	9030
4	6730	7180	25200	4470	19800	14300	8050	16100	21600	6490	14100	9140
5	6710	8200	31000	10700	17100	12700	8080	11500	15300	9930	10800	9570
6	5810	7960	26000	20600	12900	17100	7870	e9000	11400	14200	9100	9740
7	6450	8190	26800	52300	12600	22400	6100	e8000	14000	15500	8030	11700
8	6750	6680	26700	46900	9710	82400	6060	7180	15500	14400	12600	9290
9	5680	8500	25900	25600	9250	86700	5110	15300	15400	14400	14300	8900
10	5940	9630	23400	14800	10200	74800	8850	22300	16200	9440	15100	7540
11	8200	10200	38200	10500	8750	63600	10200	21600	13400	12900	14800	8640
12	13600	10600	38800	10900	6080	55800	11700	19200	12700	12600	13700	10700
13	17700	11100	28700	18700	5390	44300	11300	15800	13800	18200	13000	11000
14	19300	9340	27500	27400	5270	40900	10400	e30000	12400	25300	11000	10300
15	14300	8250	28200	41700	18000	36700	10100	61600	11100	16000	11000	10700
16	12700	10600	27400	46700	41400	30900	8520	47000	10500	15700	14800	11400
17	9710	13800	22300	37000	39100	30800	7150	44400	9890	10700	19900	11200
18	7700	14900	19100	31300	38400	31100	7080	51000	9330	7660	19700	10800
19	6060	13800	16100	36500	36400	25100	8970	74800	8790	10700	17600	10500
20	7150	10400	13000	38000	33300	23800	10500	69700	8850	13900	16900	10600
21	9200	9140	15000	37900	33100	26100	18300	66000	10800	14000	15100	10100
22	10700	7000	19000	26100	35400	25500	23500	e52800	13700	11300	12300	7960
23	8970	7190	19000	22400	36600	25100	19000	e41700	14100	9780	11100	7100
24	6260	7820	16700	19600	34500	18500	12200	40100	11500	8470	11200	6710
25	6860	9190	12400	17000	29600	18100	11100	38900	11600	8610	9960	7400
26	7970	9340	8700	17900	24900	12900	13400	38300	9690	13500	9730	8070
27	8660	12200	7730	19300	18600	12600	15800	37100	10800	17100	7840	7810
28	10400	54000	9960	15500	16800	10700	14300	33900	10400	19700	7430	8000
29	9640	39400	13100	13300	---	6850	12200	31900	10300	16900	12000	7880
30	8490	31400	13600	15200	---	7330	10700	36600	11900	13500	11300	7360
31	5950	---	11400	14300	---	6560	---	30700	---	10600	11300	---
TOTAL	277980	372220	686690	710850	591950	910240	320330	1016790	419950	408980	394590	281040
MEAN	8967	12410	22150	22930	21140	29360	10680	32800	14000	13190	12730	9368
MAX	19300	54000	38800	52300	41400	86700	23500	74800	36100	25300	19900	11700
MIN	5680	5200	7730	4470	5270	6560	5110	7180	8790	6490	7430	6710

e Estimated

CUMBERLAND RIVER BASIN

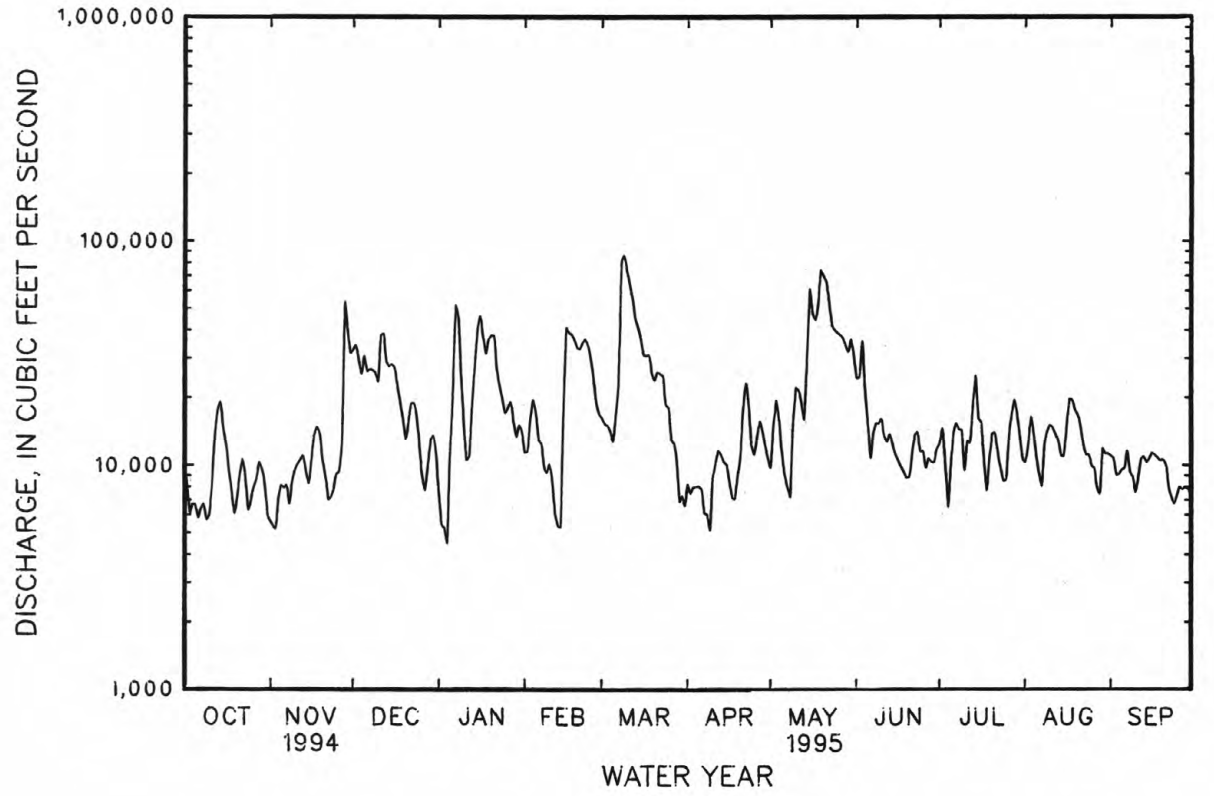
034315005 CUMBERLAND RIVER AT WOODLAND STREET AT NASHVILLE, TN--Continued

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

MEAN	11660	12730	25900	35090	37370	47320	46350	21610	13670	14650	13850	11890
MAX	18380	17620	32340	43570	71760	82050	92860	32800	18150	20320	16870	18820
(WY)	1993	1993	1994	1994	1994	1994	1994	1995	1992	1992	1994	1992
MIN	7649	8167	22150	22930	19200	29360	10680	7195	10210	11490	10490	8176
(WY)	1994	1994	1995	1995	1993	1995	1995	1992	1993	1993	1993	1993

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		*WATER YEARS 1992 - 1995	
ANNUAL TOTAL	12607150		6391610			
ANNUAL MEAN	34540		17510		24160	
HIGHEST ANNUAL MEAN					34940	1994
LOWEST ANNUAL MEAN					17510	1995
HIGHEST DAILY MEAN	119000	Mar 28	86700	Mar 9	119000	Mar 28 1994
LOWEST DAILY MEAN	5200	Nov 3	4470	Jan 4	4290	Oct 10 1993
ANNUAL SEVEN-DAY MINIMUM	6300	Oct 4	6300	Oct 4	5410	Oct 6 1993
INSTANTANEOUS PEAK FLOW			94600	Mar 8	125000	Mar 29 1994
INSTANTANEOUS PEAK STAGE			33.27	Mar 8	38.05	Mar 29 1994
10 PERCENT EXCEEDS	89900		36600		48800	
50 PERCENT EXCEEDS	18000		12600		15000	
90 PERCENT EXCEEDS	7970		7190		7500	

* Period of daily discharge only.



CUMBERLAND RIVER BASIN

03431599 WHITES CREEK NEAR BORDEAUX, TN

LOCATION.--Lat 36°13'03", long 86°49'13", Davidson County, Hydrologic Unit 05130202, on right bank on downstream side of bridge on Buena Vista Pike, 0.4 mi downstream from Ewing Creek, 2.1 mi above Drakes Branch, 1.8 mi northeast of Bordeaux, and at mile 6.1.

DRAINAGE AREA.--51.3 mi².

PERIOD OF RECORD.--October 1964 to April 1975 (published as at Tucker Road, near Bordeaux), August 1993 to current year. Occasional low-flow measurements, water years 1962-64.

GAGE.--Data collection platform. Datum of gage is 397.79 ft above sea level. Oct 1964 to April 1975 at site 0.4 mi downstream at datum 3.85 ft higher.

REMARKS.--No estimated daily discharges. Records good. Peak discharge of 12,200 ft³/s, gage height 17.06 ft, Feb. 23, 1975, occurred at Tucker Road near Bordeaux site. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 27	2215	*9,120	*18.27	May 14	1100	7,010	16.19
Jan. 6	1545	3,710	11.74	May 15	0515	6,490	15.53
Mar. 7	2130	5,770	14.57	May 18	1415	4,110	12.31
May 9	0945	5,880	14.71				

Minimum discharge, 2.0 ft³/s, Sept. 4, 5.

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	4.6	12	50	13	46	27	22	82	32	6.9	3.7	2.9
2	4.9	11	37	12	44	25	21	65	80	5.8	3.9	2.8
3	9.1	10	29	12	38	23	19	42	40	5.1	3.1	2.7
4	7.2	9.6	268	12	37	22	18	37	29	9.0	2.8	2.6
5	5.7	17	196	10	32	60	18	31	23	24	76	3.9
6	5.2	37	100	889	28	179	17	26	21	11	28	3.7
7	5.0	19	64	417	28	1850	16	21	25	7.6	38	3.2
8	4.7	16	48	195	26	1450	16	18	21	5.9	19	3.0
9	72	19	42	121	24	453	15	1010	16	5.7	13	3.1
10	27	30	517	82	24	265	14	219	14	4.6	10	3.7
11	17	21	266	116	23	180	15	118	38	4.2	8.4	3.5
12	20	18	134	88	21	129	34	76	37	3.5	6.4	8.6
13	172	16	80	69	19	97	23	58	22	3.3	5.3	52
14	63	15	55	464	25	76	18	1930	15	2.9	5.2	13
15	38	13	42	940	670	61	16	1670	12	3.6	11	7.7
16	27	13	70	448	492	52	15	512	9.8	3.3	6.2	80
17	21	13	132	244	277	45	18	345	8.3	3.1	5.1	28
18	17	10	85	161	183	41	17	910	7.9	3.1	22	13
19	15	8.8	61	398	129	37	16	486	7.8	2.7	10	8.6
20	13	8.0	47	264	98	48	123	256	14	2.6	6.2	7.3
21	12	7.8	38	179	75	45	478	155	9.4	2.8	8.0	5.4
22	11	8.1	32	128	58	37	132	99	7.7	9.3	5.3	4.8
23	11	7.6	28	95	47	34	85	68	29	6.3	4.4	4.3
24	10	7.5	24	72	42	30	66	51	26	5.4	3.5	3.9
25	9.5	7.6	21	57	37	28	46	41	18	5.6	2.9	3.6
26	8.9	9.0	19	46	33	25	36	34	13	7.6	3.1	13
27	8.4	1320	18	48	32	34	34	52	9.7	9.1	3.0	9.1
28	8.3	713	16	96	30	28	28	86	8.0	15	2.6	6.4
29	8.0	162	15	74	---	26	24	40	6.8	11	2.6	5.2
30	8.0	80	14	61	---	24	25	30	6.4	5.9	2.7	4.4
31	7.9	---	13	53	---	23	---	27	---	4.5	2.8	---
TOTAL	651.4	2639.0	2561	5864	2618	5454	1425	8595	606.8	200.4	324.2	313.4
MEAN	21.0	88.0	82.6	189	93.5	176	47.5	277	20.2	6.46	10.5	10.4
MAX	172	1320	517	940	670	1850	478	1930	80	24	76	80
MIN	4.6	7.5	13	10	19	22	14	18	6.4	2.6	2.6	2.6
CFSM	.41	1.71	1.61	3.69	1.82	3.43	.93	5.40	.39	.13	.20	.20
IN.	.47	1.91	1.86	4.25	1.90	3.95	1.03	6.23	.44	.15	.24	.23

CUMBERLAND RIVER BASIN

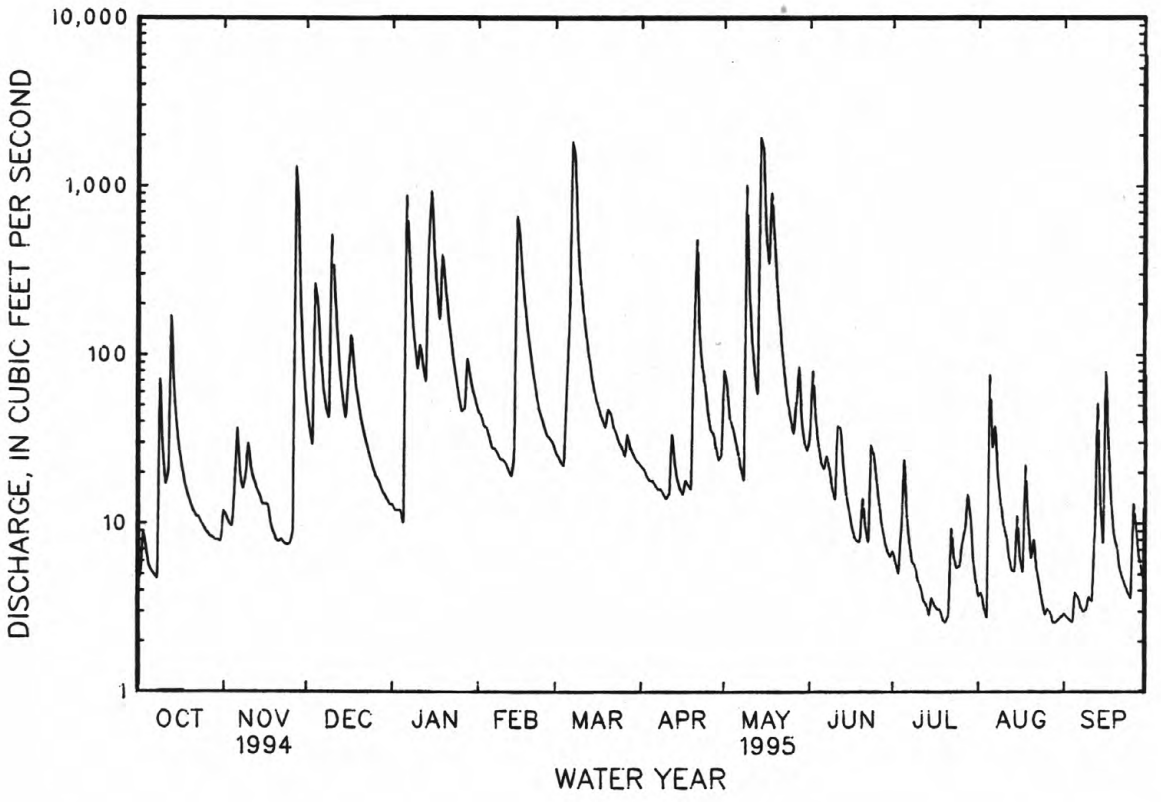
03431599 WHITES CREEK NEAR BORDEAUX, TN--Continued

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

MEAN	9.85	52.7	113	134	163	195	130	92.5	30.3	14.0	20.1	15.8
MAX	21.0	138	286	288	369	530	286	277	154	48.3	87.2	122
(WY)	1995	1973	1973	1974	1975	1975	1994	1995	1974	1967	1972	1974
MIN	2.05	6.60	8.18	25.2	36.3	46.0	18.8	20.2	4.70	1.11	2.26	1.24
(WY)	1970	1966	1966	1966	1968	1966	1967	1969	1966	1966	1968	1968

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1965 - 1995	
ANNUAL TOTAL	46709.9		31252.2			
ANNUAL MEAN	128		85.6		76.3	
HIGHEST ANNUAL MEAN					129	1994
LOWEST ANNUAL MEAN					35.2	1966
HIGHEST DAILY MEAN	3110	Mar 9	1930	May 14	5100	Feb 23 1975
LOWEST DAILY MEAN	3.8	Aug 3	2.6	Jul 20	.30	Jul 6 1966
ANNUAL SEVEN-DAY MINIMUM	5.5	Sep 10	2.7	Aug 28	.42	Aug 28 1968
INSTANTANEOUS PEAK FLOW			9120	Nov 27	a12200	Feb 23 1975
INSTANTANEOUS PEAK STAGE			18.27	Nov 27	b18.27	Nov 27 1994
INSTANTANEOUS LOW FLOW			c2.0	Sep 4	d.20	Jul 6 1966
ANNUAL RUNOFF (CFSM)	2.49		1.67		1.49	
ANNUAL RUNOFF (INCHES)	33.87		22.66		20.21	
10 PERCENT EXCEEDS	297		175		180	
50 PERCENT EXCEEDS	30		21		21	
90 PERCENT EXCEEDS	6.4		4.3		2.5	

a From rating curve extended above 6,900 ft³/s on basis of contracted opening measurement of peak flow.
b See REMARKS.
c Also occurred Sept. 5.
d Also occurred Sept. 15, 1968.



CUMBERLAND RIVER BASIN

03431700 RICHLAND CREEK AT CHARLOTTE AVENUE, AT NASHVILLE, TN

LOCATION.--Lat 36°09'04", long 86°51'16", Davidson County, Hydrologic Unit 05130202, near right bank on downstream end of pier of Charlotte Avenue bridge on U.S. Highway 70, 4.0 mi southwest of the State Capitol in Nashville, and at mile 3.6.

DRAINAGE AREA.--24.3 mi².

PERIOD OF RECORD.--July 1964 to September 1990, August 1993 to current year.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 409.56 ft above sea level.

REMARKS.--Records good. Diversions above station used for irrigation of golf courses and water supply. Periodic observations of water temperature are published in this report as miscellaneous water quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 27	Unknown	*6,700	*13.29	May 9	0930	1,660	6.18

Minimum daily discharge, 1.3 ft³/s, July 21.

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	5.3	7.2	e75	7.4	22	17	9.5	46	15	9.1	8.3	2.2
2	5.5	5.8	e50	6.9	22	15	9.3	31	27	5.6	3.6	2.2
3	10	5.4	27	6.9	20	14	8.7	21	13	5.0	2.6	2.1
4	5.9	4.7	135	6.8	19	14	8.4	21	10	13	4.9	2.0
5	5.1	19	81	6.3	17	33	7.8	16	9.0	12	57	1.9
6	4.8	13	55	332	15	76	7.6	13	9.9	5.5	23	1.8
7	4.1	7.8	42	117	15	468	7.1	12	9.2	4.2	97	1.6
8	4.5	6.8	36	72	14	351	6.7	11	7.1	3.5	44	1.7
9	62	15	33	53	13	139	6.5	314	6.0	3.2	22	1.5
10	19	13	227	41	13	94	5.9	75	5.3	2.6	14	1.5
11	13	9.5	106	55	13	71	7.0	47	13	2.1	11	1.5
12	23	8.1	72	43	12	57	18	34	12	2.1	8.7	19
13	77	7.3	54	36	12	47	8.3	26	6.9	1.7	6.6	35
14	46	6.7	42	115	e40	39	6.9	173	5.7	1.5	5.6	12
15	29	6.1	34	232	133	33	6.3	59	4.5	2.2	4.9	7.1
16	21	6.4	34	118	82	28	5.8	119	3.6	2.1	4.7	42
17	17	5.9	28	83	63	24	19	68	3.5	1.6	4.2	24
18	14	5.7	23	65	50	21	11	432	3.4	2.1	21	12
19	13	5.2	20	156	42	19	8.4	170	4.3	1.8	13	8.8
20	11	5.0	18	90	36	23	45	92	4.6	1.6	17	7.4
21	9.9	4.7	16	70	32	17	76	65	3.5	1.3	12	9.2
22	9.3	4.6	15	58	28	16	29	48	3.0	3.6	8.4	6.4
23	8.5	4.6	13	47	21	14	28	37	20	6.1	6.7	5.6
24	7.9	4.6	12	41	21	10	21	29	5.9	3.7	5.7	5.0
25	7.4	4.6	11	35	19	11	17	21	37	3.0	4.8	4.1
26	7.0	7.4	10	31	17	10	14	17	14	7.1	4.1	11
27	6.7	e1200	9.4	31	18	22	14	22	8.5	6.6	3.7	6.0
28	6.3	e500	8.9	40	16	13	11	42	6.7	8.4	3.3	4.6
29	6.0	e250	8.6	31	---	12	10	17	5.3	4.7	2.9	4.0
30	6.0	e125	8.3	27	---	11	16	13	18	3.6	2.4	3.8
31	6.1	---	7.8	24	---	9.9	---	14	---	3.0	2.1	---
TOTAL	471.3	2269.1	1312.0	2077.3	825	1728.9	449.2	2105	294.9	133.6	429.2	247.0
MEAN	15.2	75.6	42.3	67.0	29.5	55.8	15.0	67.9	9.83	4.31	13.8	8.23
MAX	77	1200	227	332	133	468	76	432	37	13	97	42
MIN	4.1	4.6	7.8	6.3	12	9.9	5.8	11	3.0	1.3	2.1	1.5
CFSM	.63	3.11	1.74	2.76	1.21	2.30	.62	2.79	.40	.18	.57	.34
IN.	.72	3.47	2.01	3.18	1.26	2.65	.69	3.22	.45	.20	.66	.38

e Estimated

CUMBERLAND RIVER BASIN

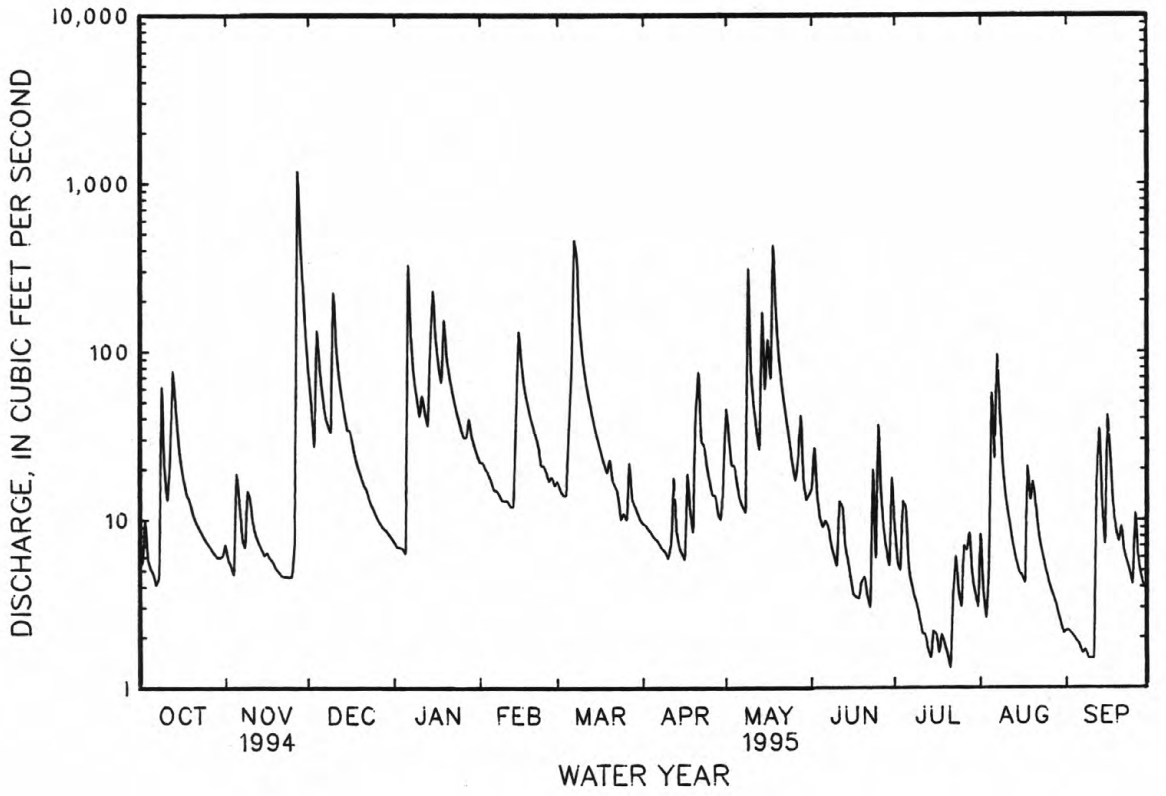
03431700 RICHLAND CREEK AT CHARLOTTE AVENUE, AT NASHVILLE, TN--Continued

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

MEAN	10.8	33.7	57.9	52.6	58.0	63.9	46.2	37.7	18.1	11.0	8.02	12.3
MAX	53.0	89.8	247	151	205	208	146	131	77.6	42.0	24.6	127
(WY)	1976	1987	1965	1974	1989	1975	1979	1984	1974	1979	1994	1979
MIN	.41	1.79	2.57	3.96	10.3	18.2	5.76	5.06	1.33	1.34	1.18	.92
(WY)	1966	1972	1966	1986	1968	1966	1986	1977	1988	1966	1980	1980

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1964 - 1995	
ANNUAL TOTAL	19961.0		12342.5			
ANNUAL MEAN	54.7		33.8		34.1	
HIGHEST ANNUAL MEAN					71.3	1979
LOWEST ANNUAL MEAN					13.6	1966
HIGHEST DAILY MEAN	1200	Nov 27	1200	Nov 27	7020	Nov 2 1990
LOWEST DAILY MEAN	2.2	Jul 15	1.3	Jul 21	.05	Oct 8 1980
ANNUAL SEVEN-DAY MINIMUM	3.0	Jun 18	1.6	Sep 5	.23	Oct 8 1965
INSTANTANEOUS PEAK FLOW			6700	Nov 27	9470	Sep 13 1979
INSTANTANEOUS PEAK STAGE			a13.29	Nov 27	15.13	Sep 13 1979
INSTANTANEOUS LOW FLOW					.05	Oct 7 1980
ANNUAL RUNOFF (CFSM)	2.25		1.39		1.41	
ANNUAL RUNOFF (INCHES)	30.56		18.89		19.09	
10 PERCENT EXCEEDS	120		71		76	
50 PERCENT EXCEEDS	19		12		10	
90 PERCENT EXCEEDS	4.8		3.6		1.5	

a From crest-stage gage.



CUMBERLAND RIVER BASIN

03432350 HARPETH RIVER AT FRANKLIN, TN

LOCATION.--Lat 35°55'14", long 86°51'56", Williamson County, Hydrologic Unit 05130204, on left bank 15 ft downstream from State Highway 96 bridge, 0.4 mi southeast of the courthouse in Franklin, and at mile 88.1.

DRAINAGE AREA.--191 mi², includes 15 mi² without surface drainage.

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 604.42 ft above sea level.

REMARKS.--Records good except those below 5.0 ft³/s, which are poor. The Franklin Utility District diverts part of its municipal water supply from the river above the gage. This water along with other water is returned to the river through the sewage treatment plant 2.7 mi below gage. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,900 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 28	1000	4,510	18.15	May 9	2400	6,130	21.06
Dec. 10	2230	4,390	17.89	May 14	1630	3,820	16.56
Jan. 6	2300	3,420	15.56	Aug. 9	0030	3,800	16.50
Mar. 8	1400	*8,670	*24.77				

Minimum daily discharge, 1.6 ft³/s, Sept. 4, 9, 10.

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	43	328	e70	298	110	111	438	83	21	17	8.5
2	29	44	263	e62	261	97	97	784	453	23	19	5.0
3	21	43	233	e57	231	85	90	376	250	21	16	1.7
4	15	40	1500	66	198	88	83	321	138	13	8.7	1.6
5	13	52	1350	60	174	512	68	262	98	32	60	1.7
6	13	184	734	983	151	677	62	218	100	49	92	5.1
7	21	155	478	1730	138	1280	62	189	102	33	76	3.3
8	19	114	341	671	129	7390	66	163	77	18	931	1.7
9	63	111	295	434	124	2570	60	2460	56	10	1530	1.6
10	91	216	2080	321	121	1050	48	2020	50	11	413	1.6
11	60	196	2110	317	119	737	48	519	72	17	240	2.0
12	56	152	919	423	100	539	74	327	245	15	165	4.7
13	373	126	609	331	88	430	70	245	184	7.8	133	26
14	350	108	441	1330	90	356	49	1910	110	5.3	107	73
15	239	95	336	1730	173	302	50	895	87	1.7	82	41
16	169	88	278	1230	519	260	52	469	63	9.9	62	81
17	124	80	262	794	578	233	79	340	50	25	54	145
18	103	72	229	560	360	206	127	394	50	8.8	44	77
19	96	61	201	850	280	171	101	742	38	11	67	45
20	84	54	190	760	242	149	113	392	31	9.1	59	34
21	74	55	181	515	208	148	1540	260	38	4.5	35	30
22	66	54	165	389	181	138	688	196	37	17	37	26
23	118	46	153	312	166	121	336	160	41	43	29	19
24	105	35	139	256	141	104	378	142	39	48	22	11
25	80	33	120	237	130	102	253	117	45	48	12	8.9
26	72	39	106	210	129	101	200	176	46	39	12	14
27	62	814	99	192	127	183	160	161	41	52	17	18
28	56	3310	98	445	123	260	130	150	25	99	14	17
29	45	972	97	1170	---	164	117	128	20	59	3.4	13
30	39	490	91	521	---	152	115	101	16	36	2.3	4.2
31	38	---	83	361	---	135	---	78	---	20	9.3	---
TOTAL	2727	7882	14509	17387	5579	18850	5427	15133	2685	807.1	4368.7	721.6
MEAN	88.0	263	468	561	199	608	181	488	89.5	26.0	141	24.1
MAX	373	3310	2110	1730	578	7390	1540	2460	453	99	1530	145
MIN	13	33	83	57	88	85	48	78	16	1.7	2.3	1.6
CFSM	.50	1.49	2.66	3.19	1.13	3.45	1.03	2.77	.51	.15	.80	.14
IN.	.58	1.67	3.07	3.67	1.18	3.98	1.15	3.20	.57	.17	.92	.15

e Estimated

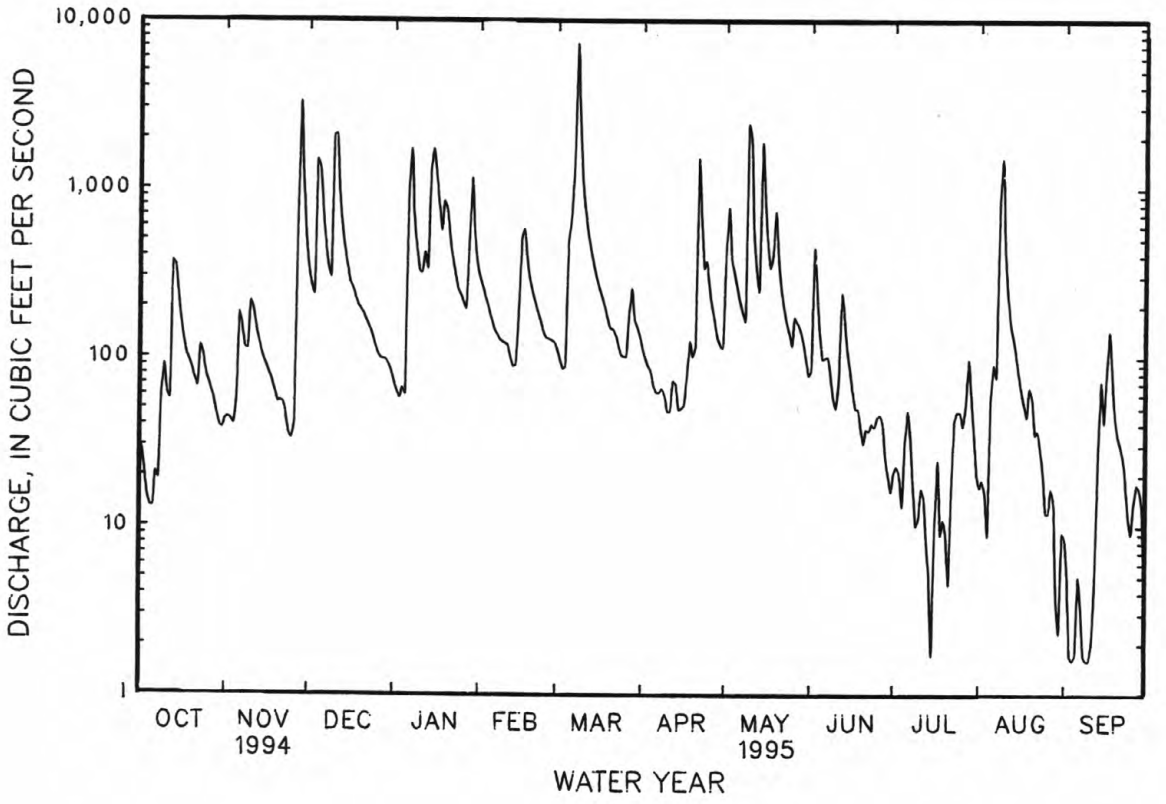
CUMBERLAND RIVER BASIN

03432350 HARPETH RIVER AT FRANKLIN, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1995, BY WATER YEAR (WY)

MEAN	94.1	284	499	511	545	658	368	332	97.3	60.9	31.4	80.4
MAX	610	778	1172	1472	1358	1945	1066	1489	530	431	141	971
(WY)	1976	1980	1991	1979	1990	1975	1979	1984	1989	1989	1995	1979
MIN	.52	4.08	16.2	14.4	139	159	62.2	21.8	1.25	1.44	1.58	1.17
(WY)	1981	1981	1981	1986	1978	1985	1986	1988	1988	1988	1988	1980

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1975 - 1995	
ANNUAL TOTAL	153783.9		96076.4			
ANNUAL MEAN	421		263		296	
HIGHEST ANNUAL MEAN					522	1979
LOWEST ANNUAL MEAN					68.7	1981
HIGHEST DAILY MEAN	8910	Mar 28	7390	Mar 8	18500	Mar 13 1975
LOWEST DAILY MEAN	4.3	Sep 13	1.6	Sep 4	.30	Oct 14 1980
ANNUAL SEVEN-DAY MINIMUM	8.9	Sep 11	2.4	Sep 4	.32	Oct 20 1980
INSTANTANEOUS PEAK FLOW			8670	Mar 8	20200	Mar 13 1975
INSTANTANEOUS PEAK STAGE			24.77	Mar 8	33.65	Mar 13 1975
INSTANTANEOUS LOW FLOW					.30	Oct 14 1980
ANNUAL RUNOFF (CFSM)	2.39		1.50		1.68	
ANNUAL RUNOFF (INCHES)	32.50		20.31		22.84	
10 PERCENT EXCEEDS	965		590		648	
50 PERCENT EXCEEDS	118		101		92	
90 PERCENT EXCEEDS	19		14		2.8	



CUMBERLAND RIVER BASIN

03432400 HARPETH RIVER BELOW FRANKLIN, TN

LOCATION.--Lat 35°56'53", long 86°52'54", Williamson County, Hydrologic Unit 05130204, on right bank 0.1 mi below bridge on U.S. Highway 431, 1.2 mi downstream from Spence Creek, 1.8 mi northwest of the courthouse in Franklin, and at mile 84.3.

DRAINAGE AREA.--210 mi², includes 15 mi² without surface drainage.

PERIOD OF RECORD.--August 1988 to current year, discharge for gage height of 6.00 ft and below only.

GAGE.--Data collection platform.

REMARKS.--No estimated daily discharges. Records good. Flow is affected by Franklin sewage treatment plant outflow 1.1 mi upstream. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, not determined; maximum gage height, 28.97 ft, Feb. 4, 1990; minimum discharge, 3.0 ft³/s, Aug. 19, 1988; minimum daily, 4.1 ft³/s, Aug. 18, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, not determined; maximum gage height, 23.96 ft, Mar. 8; minimum discharge, 4.9 ft³/s, Sept. 4; minimum daily, 6.7 ft³/s, Sept. 4.

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	57	396	77	347	133	133	---	121	30	29	15
2	37	55	332	66	307	118	110	---	---	35	31	13
3	33	53	300	62	275	100	100	370	288	32	26	9.1
4	20	49	---	69	246	100	90	281	172	26	21	6.7
5	17	83	---	64	219	---	75	232	124	54	124	7.0
6	15	225	---	---	190	---	65	193	125	63	123	10
7	22	198	---	---	171	---	63	168	136	46	110	11
8	21	133	416	---	159	---	70	146	101	33	---	8.0
9	94	131	373	474	151	---	66	---	72	19	---	6.9
10	97	262	---	381	149	---	56	---	61	16	449	7.5
11	69	249	---	377	146	---	49	---	106	24	311	8.1
12	75	183	---	463	124	---	86	372	267	23	220	26
13	396	143	---	391	103	487	83	293	222	17	170	98
14	419	118	481	---	109	422	57	---	130	11	134	99
15	315	98	400	---	254	370	52	---	105	8.5	105	62
16	213	98	343	---	---	325	54	---	78	14	78	168
17	144	87	320	---	---	291	105	399	62	30	69	207
18	115	78	279	---	417	262	143	---	63	14	58	117
19	106	66	237	---	345	221	90	---	52	16	77	70
20	94	54	213	---	300	197	100	434	45	16	91	53
21	84	55	199	---	264	193	---	327	49	12	54	50
22	86	57	183	455	230	173	---	256	49	43	53	43
23	129	50	168	388	207	150	399	216	64	58	43	34
24	115	38	153	328	177	130	425	190	58	106	35	22
25	88	34	131	290	157	121	313	163	60	63	21	19
26	82	42	112	265	151	117	249	205	59	53	19	25
27	72	---	103	242	150	191	208	238	54	104	26	29
28	66	---	101	---	148	312	165	209	39	178	23	27
29	58	---	100	---	---	200	144	169	32	100	12	24
30	49	---	93	---	---	184	154	144	30	62	8.7	14
31	52	---	87	407	---	164	---	114	---	39	14	---
TOTAL	3226	---	---	---	---	---	---	---	---	1345.5	---	1289.3
MEAN	104	---	---	---	---	---	---	---	---	43.4	---	43.0
MAX	419	---	---	---	---	---	---	---	---	178	---	207
MIN	15	---	---	---	---	---	---	---	---	8.5	---	6.7

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CUMBERLAND RIVER BASIN

03433500 HARPETH RIVER AT BELLEVUE, TN

LOCATION.--Lat 36°03'16", long 86°55'42", Davidson County, Hydrologic Unit 05130204, on right bank 45 ft upstream from bridge on State Highway 100, 0.1 mi downstream from Little Harpeth River, 0.9 mi southeast of Bellevue, and at mile 62.1.

DRAINAGE AREA.--408 mi², includes 15 mi² without surface drainage.

PERIOD OF RECORD.--April 1920 to current year. Monthly discharge only November 1929 to December 1931, published in WSP 1306.

REVISED RECORDS.--WSP 953: 1920-30, 1932-35. WSP 1386: 1948. WSP 1556: Drainage area. WSP 1910: 1960.

GAGE.--Data collection platform. Datum of gage is 541.04 ft above sea level (levels by U.S. Army Corps of Engineers). Apr. 11, 1920, to Oct. 31, 1929, Jan. 1, 1932, to Sept. 30, 1933, nonrecording gage at site 2.8 mi downstream at datum 7.85 ft lower.

REMARKS.--Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1897, that of Feb. 13, 1948.

EXTREMES FOR CURRENT PERIOD.--Peak discharges greater than base discharge of 7,500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 28	0030	8,810	13.58	May 14	1700	7,640	12.26
Mar. 8	2200	*11,200	*15.66				

Minimum discharge, 18 ft³/s, Sept. 11.

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	101	807	183	706	284	284	349	256	78	94	27
2	64	108	643	167	615	261	254	1510	394	81	74	32
3	61	103	546	158	546	238	233	765	579	76	69	29
4	57	95	2000	155	485	224	219	549	335	70	56	27
5	47	105	3290	152	428	442	203	463	246	83	123	24
6	42	336	1610	1440	378	1250	184	372	219	116	451	21
7	38	422	1120	4400	341	2460	178	322	246	118	481	20
8	39	270	875	1690	315	10300	177	279	219	89	588	23
9	113	233	746	1100	287	7640	176	2090	179	71	2620	22
10	200	403	2880	863	280	2570	167	4580	151	49	734	20
11	163	472	5320	840	277	1760	151	1150	195	41	533	19
12	128	363	2080	1070	255	1350	178	772	455	44	345	23
13	413	285	1370	905	223	1090	200	579	458	43	266	152
14	e700	245	1040	2390	217	913	167	3670	286	39	223	329
15	e600	215	850	4050	735	795	145	3410	218	34	185	186
16	e400	199	712	3260	919	692	140	1420	184	49	155	246
17	e310	188	650	1900	1350	609	161	1010	151	34	129	621
18	225	172	565	1380	947	542	302	2380	133	47	116	329
19	196	159	480	2320	784	478	242	2080	128	35	111	204
20	178	140	423	2210	674	436	225	1310	114	31	137	151
21	164	129	385	1460	581	458	1890	896	106	30	142	129
22	161	128	357	1120	501	391	1580	683	106	32	111	112
23	224	123	328	930	452	352	771	540	115	90	97	95
24	257	113	298	776	393	310	753	453	135	200	79	79
25	194	99	272	662	350	280	599	382	135	162	69	73
26	165	99	242	585	321	272	455	352	138	121	47	63
27	148	1400	226	530	312	341	380	525	117	112	40	66
28	132	7090	212	541	306	545	325	418	104	263	47	70
29	122	2430	209	1950	---	400	271	386	84	474	43	62
30	110	1120	200	1110	---	352	276	307	77	196	36	52
31	102	---	190	840	---	321	---	254	---	125	29	---
TOTAL	5824	17345	30926	41137	13978	38356	11286	34256	6263	3033	8230	3306
MEAN	188	578	998	1327	499	1237	376	1105	209	97.8	265	110
MAX	700	7090	5320	4400	1350	10300	1890	4580	579	474	2620	621
MIN	38	95	190	152	217	224	140	254	77	30	29	19
CFSM	.46	1.42	2.45	3.25	1.22	3.03	.92	2.71	.51	.24	.65	.27
IN.	.53	1.58	2.82	3.75	1.27	3.50	1.03	3.12	.57	.28	.75	.30

e Estimated

CUMBERLAND RIVER BASIN

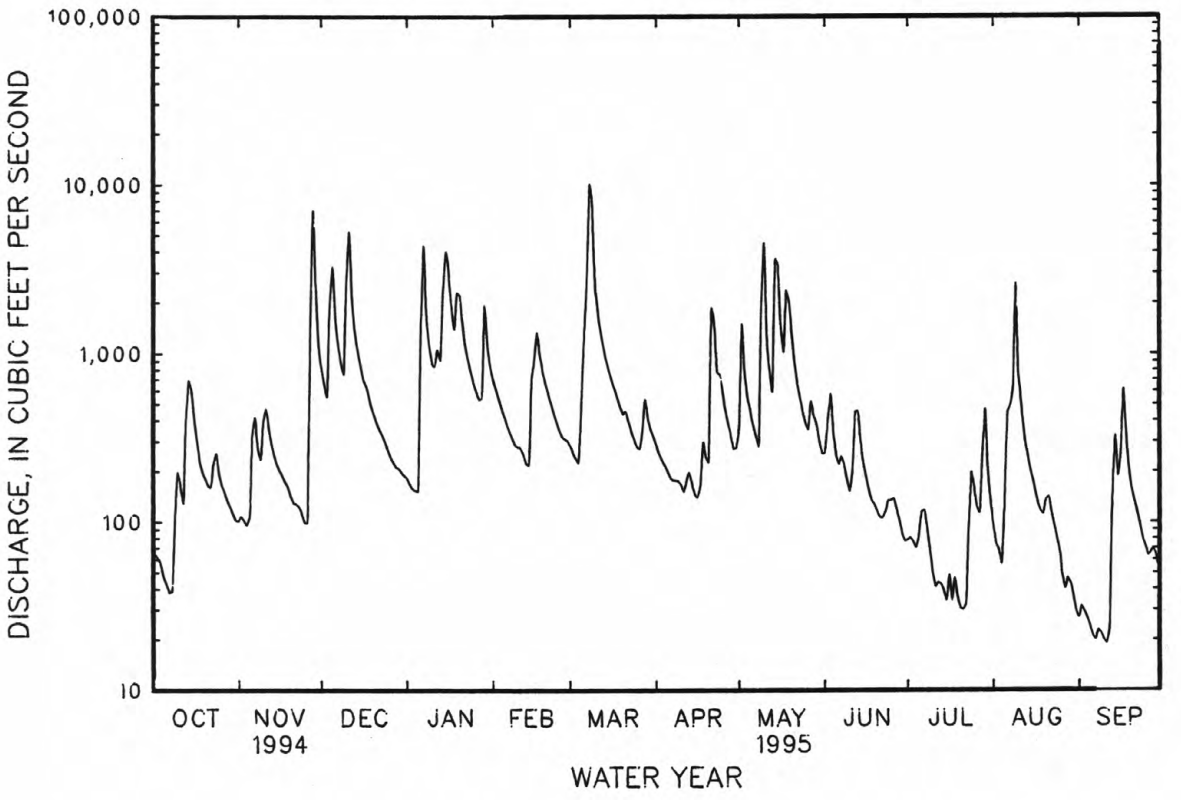
03433500 HARPETH RIVER AT BELLEVUE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 1995, BY WATER YEAR (WY)

MEAN	107	364	837	1160	1296	1331	883	571	258	142	109	120
MAX	953	1678	3952	4305	3606	4263	2579	3232	1834	827	663	1685
(WY)	1976	1987	1927	1937	1950	1975	1927	1984	1928	1989	1926	1979
MIN	1.90	10.4	32.3	40.5	90.2	167	138	38.7	13.1	15.6	5.76	1.28
(WY)	1932	1940	1940	1940	1941	1941	1967	1941	1988	1954	1954	1948

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1920 - 1995		
ANNUAL TOTAL	336918		213940				
ANNUAL MEAN	923		586		594		
HIGHEST ANNUAL MEAN					1157		1973
LOWEST ANNUAL MEAN					137		1941
HIGHEST DAILY MEAN	15500	Mar 28	10300	Mar 8	32400	Mar 13	1975
LOWEST DAILY MEAN	27	Sep 15	19	Sep 11	.00	Oct 5	1922
ANNUAL SEVEN-DAY MINIMUM	36	Sep 13	21	Sep 6	.07	Oct 4	1922
INSTANTANEOUS PEAK FLOW			11200	Mar 8	40000	Feb 13	1948
INSTANTANEOUS PEAK STAGE			15.66	Mar 8	a24.34	Feb 13	1948
INSTANTANEOUS LOW FLOW			18	Sep 11	b.00	Oct 5	1922
ANNUAL RUNOFF (CFSM)	2.26		1.44		1.46		
ANNUAL RUNOFF (INCHES)	30.72		19.51		19.80		
10 PERCENT EXCEEDS	2230		1390		1380		
50 PERCENT EXCEEDS	270		257		183		
90 PERCENT EXCEEDS	56		54		16		

a From floodmarks.
b Also occurred Oct. 6-10, 1922.



CUMBERLAND RIVER BASIN

03434500 HARPETH RIVER NEAR KINGSTON SPRINGS, TN

LOCATION.--Lat 36°07'19", long 87°05'56", Cheatham County, Hydrologic Unit 05130204, on right bank 400 ft upstream from bridge on U.S. Highway 70, 1.7 mi northeast of Kingston Springs, 3.0 mi downstream from Turnbull Creek, and at mile 32.4.

DRAINAGE AREA.--681 mi², includes 15 mi² without surface drainage.

PERIOD OF RECORD.--October 1924 to current year. Prior to July 1925 monthly discharge only, published in WSP 1306.

REVISED RECORDS.--WSP 953: 1927, 1933, 1935-36. WSP 1033: 1927(M), 1932-33(M), 1935(M), 1937(M). WSP 1706: 1945(P). WSP 2110: Drainage area.

GAGE.--Data collection platform. Datum of gage is 447.04 ft above sea level. July 8, 1925, to Jan. 22, 1939, nonrecording gage at site 150 ft downstream, and Jan. 22, 1939, to July 26, 1988, water-stage recorder at present site at datum 1.0 ft higher.

REMARKS.--Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1897, that of Jan. 7, 1946. Flood of March 1902 reached a stage about 3 ft lower than that of Jan. 7, 1946.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 28	0530	15,000	18.21	May 15	0400	11,000	14.70
Mar. 8	Unknown	*18,300	*20.60	May 18	2000	11,700	15.38

Minimum discharge, 73 ft³/s, Sept. 8, 9, 10.

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	148	184	1250	309	1010	468	470	618	466	268	219	99
2	138	181	977	292	900	433	427	1570	790	183	174	91
3	147	183	811	273	799	403	392	1240	882	165	149	87
4	147	177	1460	265	729	375	374	879	642	162	141	88
5	130	188	4120	246	645	459	350	738	480	163	465	87
6	117	411	2340	2180	574	1290	331	608	421	166	783	82
7	111	543	1610	6170	536	3200	312	521	476	177	602	77
8	104	445	1250	2890	494	e13700	302	464	455	176	709	74
9	219	355	1070	1760	448	e11300	295	2160	378	153	2440	73
10	316	395	2800	1330	448	3970	288	5710	322	140	1400	76
11	289	576	6810	1200	444	2630	278	1940	310	125	784	78
12	251	500	3150	1520	413	2000	375	1190	459	114	560	81
13	406	414	1980	1380	382	1640	368	898	623	109	439	112
14	829	360	1490	2640	366	1390	335	2890	494	109	368	390
15	742	326	1210	5670	1700	1210	293	7320	379	108	324	342
16	556	303	1030	5550	1950	1060	272	2680	324	122	284	287
17	428	293	943	3070	2090	936	291	1870	288	114	247	740
18	349	277	842	2160	1660	833	585	4900	251	134	225	552
19	305	260	732	3770	1320	747	522	6140	232	117	240	371
20	283	245	647	3830	1110	680	626	2800	260	107	216	280
21	263	225	583	2470	966	768	2530	1760	229	96	285	234
22	250	213	547	1840	823	659	2830	1310	208	125	247	208
23	249	202	507	1490	732	592	1390	1020	207	226	196	181
24	313	197	470	1250	655	525	1150	831	245	215	175	163
25	307	186	437	1050	574	472	1010	697	234	320	158	150
26	260	182	401	923	531	444	772	590	255	257	146	158
27	231	948	369	838	507	562	646	696	234	368	134	157
28	217	10700	351	883	499	706	566	775	202	541	121	142
29	207	4290	338	1740	---	683	482	670	184	677	117	141
30	197	1800	330	1680	---	549	467	532	194	422	116	133
31	191	---	319	1190	---	505	---	461	---	288	109	---
TOTAL	8700	25559	41174	61859	23305	55189	19329	56478	11124	6447	12573	5734
MEAN	281	852	1328	1995	832	1780	644	1822	371	208	406	191
MAX	829	10700	6810	6170	2090	13700	2830	7320	882	677	2440	740
MIN	104	177	319	246	366	375	272	461	184	96	109	73
CFSM	.41	1.25	1.95	2.93	1.22	2.61	.95	2.68	.54	.31	.60	.28
IN.	.48	1.40	2.25	3.38	1.27	3.01	1.06	3.09	.61	.35	.69	.31

e Estimated

CUMBERLAND RIVER BASIN

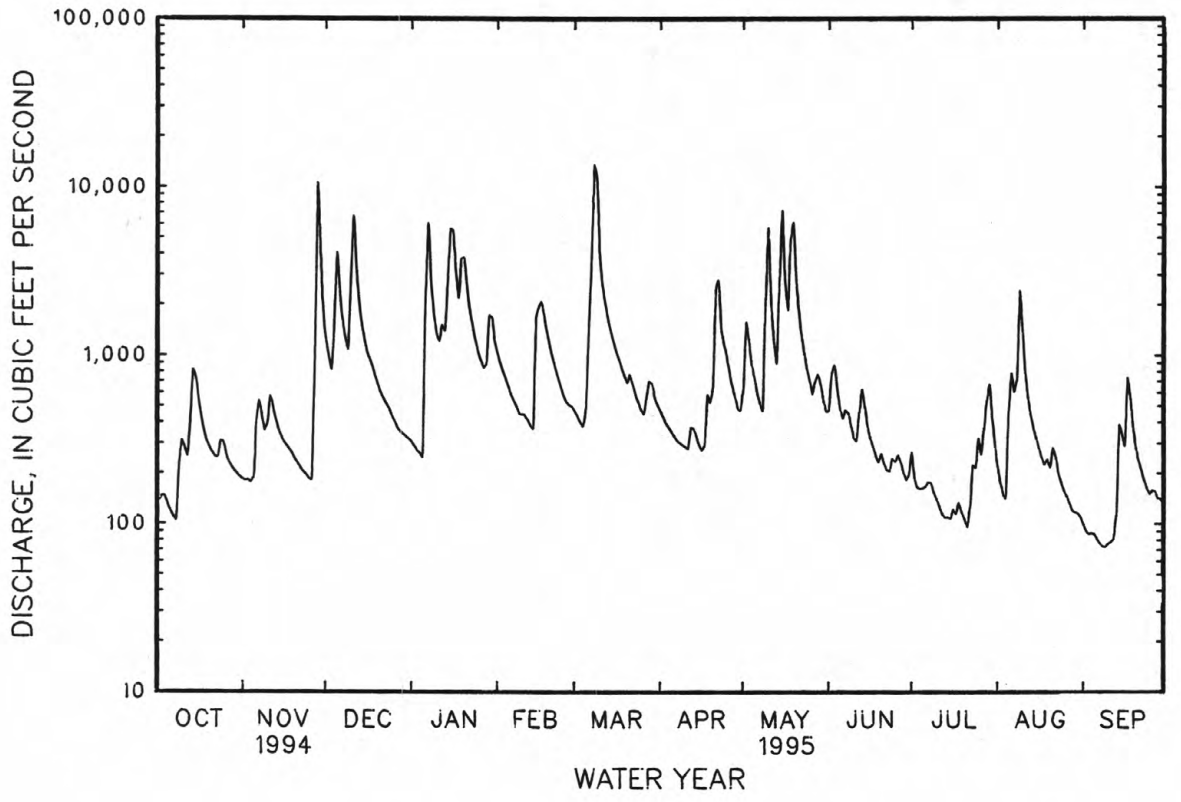
03434500 HARPETH RIVER NEAR KINGSTON SPRINGS, TN--Continued

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

MEAN	220	612	1307	1870	2080	2147	1494	1024	476	265	205	214
MAX	1516	2761	6274	6975	6077	6806	3941	5107	2849	1071	1099	2530
(WY)	1976	1980	1927	1937	1950	1975	1927	1984	1928	1989	1926	1979
MIN	28.9	63.2	94.9	116	187	279	269	99.3	59.0	62.7	38.5	25.0
(WY)	1932	1955	1936	1940	1941	1941	1967	1941	1988	1954	1954	1939

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1925 - 1995	
ANNUAL TOTAL	498164		327471			
ANNUAL MEAN	1365		897		988	
HIGHEST ANNUAL MEAN					2000	1973
LOWEST ANNUAL MEAN					249	1941
HIGHEST DAILY MEAN	19400	Mar 28	13700	Mar 8	43100	Feb 14 1948
LOWEST DAILY MEAN	92	Sep 16	73	Sep 9	16	Sep 28 1939
ANNUAL SEVEN-DAY MINIMUM	101	Sep 15	77	Sep 6	18	Sep 22 1939
INSTANTANEOUS PEAK FLOW			18300	Mar 8	60000	Jan 7 1946
INSTANTANEOUS PEAK STAGE			a20.60	Mar 8	b32.20	Jan 7 1946
INSTANTANEOUS LOW FLOW			c73	Sep 8	12	Sep 18 1939
ANNUAL RUNOFF (CFSM)	2.00		1.32		1.45	
ANNUAL RUNOFF (INCHES)	27.21		17.89		19.71	
10 PERCENT EXCEEDS	3430		1990		2240	
50 PERCENT EXCEEDS	498		437		341	
90 PERCENT EXCEEDS	147		139		69	

a From high water-mark in gage well.
b From high water-mark in gage house.
c Also occurred Sept. 9, 10.



CUMBERLAND RIVER BASIN

03435000 CUMBERLAND RIVER BELOW CHEATHAM DAM, TN

WATER-QUALITY RECORDS

LOCATION.--Lat 36°19'22", long 87°13'42", Cheatham County, Hydrologic Unit 05130205, on left bank 0.4 mi downstream from Cheatham Dam, 2.0 mi southwest of Neptune, 2.6 mi upstream from Half Pone Creek, 9.7 mi west of Ashland City, and at mile 148.4.

DRAINAGE AREA.--14,163 mi².

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: February 1993 to current year.
pH: February 1993 to current year.
WATER TEMPERATURE: February 1993 to current year.
DISSOLVED OXYGEN: February 1993 to current year.

INSTRUMENTATION.--Data collection platform and water-quality monitor.

REMARKS.--Flow regulated by Cheatham Dam and other reservoirs above station. Interruptions in the record were due to instrument malfunctions.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 298 microsiemens, May 4, 1995; minimum, 161 microsiemens, Mar. 29, 30, 1994
pH: Maximum, 8.9 units, May 16, 17, 18, 1993; minimum, 6.0 units, June 13, 1993.
WATER TEMPERATURE: Maximum, 28.4°C, Aug. 2, 3, 1995; minimum, 3.1°C, Feb. 12, 13, 14, 1995.
DISSOLVED OXYGEN: Maximum, 13.6 mg/L, Feb. 21, 1993; minimum, 3.7 mg/L, June 29, 1994.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 298 microsiemens, May 4; minimum, 180 microsiemens, Oct. 4, Jan. 7, 8.
pH: Maximum, 8.7 units, Apr. 2, 3; minimum, 6.9 units, Oct. 10, 11, 14, 15, 16, Dec. 9, 12.
WATER TEMPERATURE: Maximum, 28.4°C, Aug. 2, 3; minimum, 3.1°C, Feb. 12, 13, 14.
DISSOLVED OXYGEN: Maximum, 12.9 mg/L, Apr. 3; minimum, 3.9 mg/L, Sept. 16.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), 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	207	196	200	233	223	226	237	234	237	223	218	220
2	215	203	208	229	217	225	237	234	236	223	219	221
3	203	199	203	225	221	223	235	234	234	227	219	222
4	195	180	194	225	217	220	235	231	233	227	215	221
5	200	195	197	224	212	218	238	235	237	227	215	221
6	204	200	201	235	216	224	238	231	235	223	215	217
7	200	196	198	232	220	221	254	235	241	227	180	194
8	200	196	198	224	220	222	254	237	247	211	180	199
9	212	196	201	224	212	220	237	234	236	219	207	212
10	212	200	206	220	215	216	240	233	238	228	219	224
11	224	205	212	223	215	217	233	228	231	232	224	227
12	229	205	211	223	215	220	232	232	232	237	221	226
13	213	205	210	223	215	219	242	231	237	225	214	219
14	217	209	212	219	215	215	242	234	238	226	215	220
15	233	213	215	215	211	214	237	226	234	228	210	221
16	237	213	218	218	206	211	235	224	229	232	219	223
17	221	209	216	206	202	205	226	224	225	239	222	233
18	229	217	225	210	202	207	226	222	225	241	201	213
19	232	225	228	210	202	205	228	223	225	212	198	206
20	236	228	232	202	197	201	226	224	225	234	198	225
21	231	223	226	205	197	198	230	223	226	233	229	231
22	230	218	222	205	197	201	229	223	225	231	225	229
23	230	217	224	205	201	204	234	226	230	228	224	226
24	221	212	216	205	201	204	226	222	226	229	221	226
25	232	220	225	209	205	207	230	222	226	227	212	220
26	234	219	224	217	205	210	222	214	218	232	212	221
27	230	214	221	214	202	210	222	218	220	225	216	221
28	214	209	212	214	194	204	222	218	221	230	219	227
29	229	213	224	226	210	218	222	218	220	235	223	230
30	229	224	227	234	226	230	226	218	222	233	212	223
31	228	219	225	---	---	---	226	222	222	226	214	219
MONTH	237	180	214	235	194	214	254	214	230	241	180	221

CUMBERLAND RIVER BASIN

03435000 CUMBERLAND RIVER BELOW CHEATHAM DAM, TN--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), 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	231	214	222	236	223	228	236	227	231	279	268	271
2	229	214	224	240	232	235	236	228	230	277	266	271
3	234	229	233	241	232	237	236	228	231	273	266	271
4	242	234	237	237	237	237	237	233	233	298	272	283
5	240	229	234	244	233	238	233	229	232	297	276	284
6	233	226	229	245	234	238	234	229	231	279	275	278
7	226	219	222	238	222	233	234	230	230	282	278	281
8	228	219	226	234	207	222	235	230	231	281	271	276
9	226	225	225	223	211	217	235	231	234	275	244	269
10	235	226	230	232	223	228	239	235	236	281	264	275
11	237	227	232	236	228	230	236	232	234	276	252	261
12	238	237	237	240	236	238	237	232	235	277	259	266
13	243	238	239	241	240	241	237	233	235	277	264	271
14	247	239	241	248	241	244	237	233	234	275	255	270
15	242	230	238	248	234	242	238	233	234	257	229	241
16	235	226	231	234	228	230	234	234	234	247	229	239
17	228	224	227	228	215	223	235	234	234	257	247	252
18	234	228	233	222	214	217	239	235	237	257	244	252
19	235	230	233	222	217	218	241	237	240	244	219	229
20	240	235	237	221	217	220	237	221	234	237	230	231
21	251	236	243	220	219	220	243	233	238	237	231	236
22	252	239	246	223	218	219	235	227	232	235	230	233
23	252	240	246	222	218	218	238	230	234	234	228	230
24	248	237	242	221	217	218	230	225	226	232	227	229
25	241	230	236	221	216	220	229	224	225	227	221	225
26	238	226	234	220	215	217	239	224	232	225	220	224
27	235	226	230	219	214	216	243	234	239	224	215	219
28	231	223	227	218	213	214	269	233	250	218	209	214
29	---	---	---	230	217	222	279	267	272	216	203	210
30	---	---	---	231	226	227	278	269	271	211	206	207
31	---	---	---	231	227	229	---	---	---	209	204	207
MONTH	252	214	233	248	207	227	279	221	236	298	203	249

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	208	203	205	219	215	216	218	210	213	215	211	212
2	208	199	204	219	215	218	218	206	210	211	205	208
3	204	196	203	219	215	218	214	205	209	207	203	204
4	205	196	200	216	215	215	216	209	214	207	202	203
5	209	201	205	216	212	215	212	208	210	208	200	204
6	213	205	209	216	212	213	212	208	210	209	204	208
7	213	209	211	224	212	218	220	212	213	209	205	207
8	214	209	210	220	216	217	217	208	212	206	205	206
9	218	210	215	217	213	216	225	217	219	206	206	206
10	214	210	212	217	209	213	233	225	232	210	206	208
11	218	210	213	224	209	217	233	217	222	211	207	209
12	214	210	212	223	218	221	221	217	220	212	211	212
13	215	211	214	222	218	220	233	217	222	216	212	213
14	219	211	215	225	220	223	233	217	225	213	209	212
15	219	215	218	224	219	220	233	221	228	221	213	215
16	227	219	224	219	214	217	225	217	219	222	217	218
17	228	223	225	221	213	217	230	217	222	222	218	222
18	228	220	224	220	216	218	226	214	219	227	218	222
19	224	220	223	227	214	217	222	214	217	231	223	226
20	228	220	223	217	209	212	222	214	218	231	224	228
21	220	212	216	221	212	214	218	210	214	236	224	230
22	213	209	213	219	207	212	218	213	215	236	225	230
23	217	209	213	211	202	208	220	216	217	241	229	234
24	217	209	211	210	205	207	216	214	215	238	225	233
25	213	213	213	208	200	205	218	213	214	238	226	230
26	214	213	214	208	202	204	216	212	213	238	227	232
27	218	214	216	212	202	208	216	210	212	236	224	230
28	218	214	217	212	207	210	217	210	213	232	223	227
29	218	214	217	211	207	209	216	211	213	223	215	220
30	219	214	215	207	207	207	215	211	214	219	215	218
31	---	---	---	222	206	211	214	212	213	---	---	---
MONTH	228	196	214	227	200	214	233	205	216	241	200	218

CUMBERLAND RIVER BASIN

03435000 CUMBERLAND RIVER BELOW CHEATHAM DAM, TN--Continued

PH (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	7.4	7.1	7.5	7.2	7.3	7.3	7.6	7.4	7.6	7.3	8.0	7.9
2	7.5	7.3	7.7	7.2	7.4	7.2	7.5	7.2	8.2	7.5	8.0	7.9
3	7.4	7.2	7.4	7.1	7.3	7.2	7.4	7.1	8.3	8.2	8.0	7.9
4	7.5	7.2	7.4	7.2	7.4	7.2	7.6	7.1	8.3	8.1	8.0	7.8
5	7.6	7.3	7.3	7.2	7.4	7.3	7.8	7.4	8.2	8.1	7.9	7.9
6	7.6	7.3	7.3	7.1	7.4	7.3	7.8	7.6	8.2	8.1	8.1	7.9
7	7.4	7.1	7.4	7.2	7.6	7.4	7.8	7.5	8.2	8.1	7.9	7.8
8	7.4	7.2	7.4	7.2	7.4	7.0	7.6	7.5	8.2	8.1	7.8	7.7
9	7.4	7.1	7.4	7.2	7.0	6.9	7.6	7.5	8.2	8.1	7.7	7.7
10	7.3	6.9	7.4	7.2	7.2	7.0	8.0	7.6	8.2	8.1	7.7	7.4
11	7.2	6.9	7.3	7.2	7.2	7.0	7.6	7.3	8.3	8.0	7.5	7.4
12	7.3	7.0	7.4	7.2	7.1	6.9	7.4	7.2	8.2	8.0	7.7	7.5
13	7.2	7.1	7.4	7.3	7.2	7.1	7.5	7.3	8.2	8.1	7.6	7.3
14	7.1	6.9	7.4	7.3	7.3	7.1	7.6	7.4	8.4	8.0	7.7	7.6
15	7.1	6.9	7.6	7.3	7.5	7.2	7.7	7.5	8.4	8.0	7.7	7.5
16	7.2	6.9	7.6	7.4	7.3	7.2	7.7	7.5	8.2	8.0	7.9	7.5
17	7.4	7.0	7.6	7.3	7.3	7.0	7.9	7.4	8.1	8.1	7.9	7.2
18	7.6	7.0	7.6	7.4	7.2	7.0	7.7	7.5	8.1	8.1	7.9	7.7
19	7.6	7.2	7.7	7.4	7.2	7.1	7.8	7.7	8.1	8.0	7.8	7.7
20	7.4	7.2	7.4	7.3	7.3	7.2	7.9	7.8	8.0	7.9	8.0	7.8
21	7.5	7.2	7.5	7.4	7.4	7.3	7.8	7.7	8.2	7.8	8.0	7.9
22	7.4	7.2	7.6	7.5	7.6	7.4	7.9	7.8	8.2	8.1	8.1	7.9
23	7.4	7.2	7.5	7.4	7.7	7.4	8.0	7.9	8.2	8.1	8.1	7.8
24	7.6	7.3	7.5	7.3	7.4	7.3	8.0	7.9	8.3	8.2	8.2	8.0
25	7.4	7.3	7.4	7.3	7.4	7.3	8.0	7.8	8.3	8.1	8.2	8.0
26	7.4	7.2	7.6	7.4	7.4	7.3	7.9	7.8	8.1	8.0	8.2	8.0
27	7.3	7.1	7.8	7.5	7.6	7.4	8.0	7.8	8.1	8.0	8.3	8.0
28	7.4	7.2	7.7	7.3	7.6	7.4	7.9	7.8	8.1	8.0	8.3	8.0
29	7.3	7.2	7.4	7.2	7.6	7.4	7.9	7.6	---	---	8.4	8.0
30	7.2	7.1	7.4	7.2	7.6	7.2	7.6	7.5	---	---	8.5	8.2
31	7.3	7.1	---	---	7.6	7.2	7.6	7.4	---	---	8.4	8.0
MONTH	7.6	6.9	7.8	7.1	7.7	6.9	8.0	7.1	8.4	7.3	8.5	7.2

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

CUMBERLAND RIVER BASIN

03435000 CUMBERLAND RIVER BELOW CHEATHAM DAM, TN--Continued

TEMPERATURE, WATER (DEG. C), 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	20.8	20.1	20.3	16.8	16.2	16.4	12.3	12.1	12.2	9.3	8.7	9.0
2	20.7	19.8	20.4	16.4	15.6	16.1	12.1	11.7	11.8	8.7	8.1	8.5
3	21.2	19.0	20.2	16.6	15.8	16.2	11.9	11.5	11.6	8.3	7.2	8.0
4	19.9	19.1	19.5	16.6	16.0	16.2	12.2	11.8	12.0	7.9	6.4	7.3
5	21.1	20.2	20.6	16.8	16.2	16.6	12.6	12.0	12.2	7.2	6.6	6.8
6	21.7	20.2	21.0	17.0	16.4	16.6	12.7	12.6	12.7	6.8	6.0	6.6
7	21.9	20.3	21.1	16.6	16.0	16.2	12.7	12.6	12.6	6.0	4.8	5.2
8	22.1	20.5	21.4	16.4	15.8	16.1	12.6	12.3	12.3	6.0	5.4	5.7
9	21.9	20.9	21.3	16.6	16.0	16.3	12.3	12.0	12.1	7.0	6.0	6.5
10	21.5	20.7	21.0	16.4	16.0	16.2	12.0	11.3	11.7	7.2	6.8	7.0
11	21.1	20.3	20.8	16.2	15.8	16.0	11.3	10.3	10.7	7.6	7.2	7.3
12	20.8	20.3	20.7	16.2	15.8	15.9	10.4	10.2	10.3	8.4	7.6	7.9
13	20.3	19.7	20.1	16.2	15.8	16.0	10.4	10.0	10.2	8.8	8.2	8.5
14	19.7	19.1	19.2	16.2	16.0	16.0	10.3	10.1	10.1	9.3	8.7	9.1
15	19.1	18.7	18.8	16.4	16.0	16.0	10.2	9.9	10.1	9.1	8.9	9.1
16	19.3	18.7	19.0	16.0	15.6	15.7	10.1	10.1	10.1	9.1	8.6	8.8
17	19.7	18.7	19.1	15.6	15.6	15.6	10.6	10.1	10.3	8.6	8.6	8.6
18	19.1	18.5	18.8	15.6	15.4	15.5	10.6	10.2	10.3	8.7	8.5	8.7
19	19.1	18.7	18.8	15.4	15.0	15.3	10.2	10.0	10.0	11.3	8.7	9.1
20	19.5	18.7	19.0	15.2	14.8	15.0	10.0	9.6	9.7	11.3	9.4	10.7
21	20.1	18.9	19.3	15.4	14.6	15.0	9.7	9.2	9.5	9.4	8.4	8.9
22	19.4	19.2	19.3	15.0	14.2	14.6	9.7	9.5	9.6	8.4	7.4	7.8
23	19.6	19.0	19.3	14.5	13.7	14.2	9.9	9.7	9.8	7.5	6.8	7.3
24	19.2	18.8	19.0	13.9	13.3	13.6	9.9	9.5	9.7	7.0	6.6	6.8
25	18.8	18.2	18.6	13.5	13.3	13.5	9.7	9.3	9.5	6.7	6.3	6.5
26	18.4	17.8	18.1	13.3	13.1	13.3	9.7	8.9	9.3	6.7	6.3	6.5
27	17.8	17.5	17.7	13.2	12.8	13.1	9.5	8.9	9.1	6.5	6.3	6.4
28	17.6	17.3	17.4	13.6	12.5	13.0	9.7	8.7	9.1	7.9	6.4	7.2
29	17.3	16.8	17.0	13.0	12.5	12.6	9.3	9.1	9.2	7.7	7.3	7.6
30	17.0	16.6	16.8	12.5	12.1	12.3	9.3	9.1	9.2	7.5	6.8	7.1
31	17.2	16.6	16.9	---	---	---	9.3	9.1	9.2	7.0	6.7	6.8
MONTH	22.1	16.6	19.4	17.0	12.1	15.2	12.7	8.7	10.5	11.3	4.8	7.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.8	6.4	6.7	8.6	8.0	8.3	14.2	13.4	13.8	17.3	16.4	16.9
2	7.3	6.6	6.9	8.0	7.8	8.0	14.0	13.0	13.6	16.8	16.4	16.5
3	7.5	7.1	7.3	7.8	7.6	7.8	14.5	13.2	13.8	17.0	16.6	16.8
4	7.5	7.1	7.2	8.0	7.6	7.8	14.3	13.7	14.0	16.8	15.8	16.4
5	7.1	6.5	6.8	8.2	7.8	8.1	14.5	13.5	14.0	16.6	15.8	16.2
6	6.5	5.7	6.1	8.8	8.2	8.5	14.5	13.5	14.1	17.0	16.4	16.7
7	5.9	5.1	5.7	10.2	8.8	9.6	15.7	14.1	14.6	17.5	16.8	17.1
8	5.1	4.5	4.7	10.0	8.4	9.3	15.9	14.5	15.1	18.5	17.3	18.0
9	4.5	4.1	4.3	8.4	8.0	8.3	16.7	14.9	15.6	19.3	18.3	18.8
10	4.5	4.1	4.3	8.6	7.6	8.2	17.3	15.9	16.4	19.9	18.9	19.3
11	4.3	3.5	4.1	8.6	8.4	8.6	16.5	16.1	16.3	19.9	18.9	19.7
12	4.1	3.1	3.7	9.0	8.4	8.7	17.1	16.1	16.6	19.7	18.9	19.4
13	3.7	3.1	3.6	9.6	8.8	9.2	17.2	16.5	16.9	19.3	18.3	18.7
14	4.3	3.1	3.7	10.2	9.4	9.8	17.4	16.8	17.1	18.8	18.4	18.5
15	4.3	3.7	4.0	10.6	10.0	10.4	17.2	16.6	17.0	19.8	18.8	19.4
16	4.9	4.3	4.8	11.2	10.6	10.9	17.7	17.2	17.5	19.6	18.4	19.0
17	5.3	4.5	4.9	11.6	11.0	11.2	17.6	17.4	17.4	19.4	19.0	19.2
18	6.1	5.1	5.5	12.0	11.4	11.6	18.0	17.4	17.6	19.4	19.0	19.1
19	6.3	5.9	6.1	12.2	11.6	11.9	18.9	17.3	18.2	19.0	18.2	18.5
20	6.5	6.1	6.3	12.4	12.0	12.2	19.3	18.5	18.8	---	---	---
21	6.5	6.3	6.4	12.7	12.0	12.4	19.6	19.3	19.5	---	---	---
22	6.9	6.3	6.6	12.7	12.4	12.6	19.4	18.4	18.9	18.4	18.0	18.2
23	7.1	6.7	6.8	13.2	12.6	13.0	18.8	17.8	18.4	18.4	18.0	18.1
24	7.1	6.9	7.0	13.8	13.2	13.5	17.9	17.1	17.5	18.6	18.2	18.5
25	7.6	7.1	7.3	13.8	13.2	13.5	17.3	17.0	17.2	18.6	18.0	18.3
26	8.0	7.5	7.7	13.6	13.2	13.4	17.5	16.8	17.1	18.6	18.0	18.4
27	8.4	7.8	8.2	14.6	13.6	14.1	17.3	17.2	17.3	19.0	18.0	18.5
28	8.6	8.4	8.6	14.8	14.0	14.3	17.5	16.8	17.1	19.2	18.4	18.9
29	---	---	---	14.6	13.8	14.3	17.5	16.8	17.1	19.2	18.2	19.0
30	---	---	---	14.4	13.6	13.9	17.5	17.3	17.5	19.0	18.2	18.9
31	---	---	---	14.6	13.6	13.9	---	---	---	18.8	18.4	18.6
MONTH	8.6	3.1	5.9	14.8	7.6	10.9	19.6	13.0	16.5	19.9	15.8	18.3

CUMBERLAND RIVER BASIN

03435000 CUMBERLAND RIVER BELOW CHEATHAM DAM, TN--Continued

TEMPERATURE, WATER (DEG. C), 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	18.9	18.3	18.6	24.7	23.7	24.2	28.0	27.5	27.7	27.1	26.5	26.9
2	19.6	18.5	19.0	24.7	24.1	24.4	28.4	27.6	28.0	27.0	26.2	26.7
3	19.4	19.0	19.2	24.5	23.9	24.2	28.4	27.0	27.9	27.0	26.4	26.7
4	19.8	19.0	19.5	24.5	23.7	24.2	28.2	26.8	27.2	26.4	26.0	26.2
5	20.4	19.6	20.0	24.3	23.7	24.0	26.9	26.3	26.5	26.2	25.5	25.8
6	20.9	20.1	20.4	24.3	23.7	23.8	26.9	26.3	26.6	25.7	25.1	25.3
7	21.1	20.5	20.8	25.2	23.5	24.7	27.3	26.5	26.8	25.5	25.1	25.3
8	21.9	21.1	21.4	25.6	24.6	25.1	27.3	26.4	26.8	25.3	25.1	25.2
9	22.5	21.7	22.0	25.8	25.4	25.6	27.0	26.2	26.6	25.1	24.5	24.9
10	22.6	21.9	22.2	25.8	25.0	25.4	26.8	26.0	26.3	24.5	24.1	24.5
11	22.6	22.1	22.3	26.3	25.0	25.6	26.6	26.0	26.2	24.7	23.9	24.3
12	22.5	21.9	22.2	26.5	25.9	26.1	27.4	26.6	26.9	24.9	24.3	24.6
13	22.5	22.3	22.4	27.3	26.1	26.5	27.4	27.2	27.2	24.7	24.1	24.5
14	22.3	21.8	21.9	27.3	26.1	26.5	27.4	27.0	27.2	24.3	23.9	24.1
15	22.4	21.6	21.9	27.1	25.9	26.3	27.6	26.8	27.1	24.9	24.1	24.5
16	22.4	21.8	22.0	27.5	26.9	27.1	27.9	27.2	27.5	24.8	24.6	24.7
17	23.1	22.2	22.6	27.7	26.7	27.2	27.9	26.7	27.3	24.8	24.4	24.5
18	23.5	22.9	23.1	27.7	27.1	27.4	26.9	26.3	26.5	24.6	24.2	24.5
19	23.5	23.1	23.4	27.5	26.7	27.1	27.3	26.3	26.7	24.2	23.8	23.9
20	23.5	22.9	23.2	27.7	27.3	27.5	27.3	26.7	27.0	23.8	23.6	23.8
21	23.9	23.3	23.6	27.5	26.7	27.0	27.6	26.9	27.3	24.0	22.8	23.7
22	23.8	23.4	23.6	26.7	26.0	26.3	27.6	27.3	27.4	23.0	22.3	22.7
23	23.4	22.8	23.1	26.2	26.0	26.1	27.4	26.8	27.1	22.3	21.7	21.9
24	24.4	22.4	23.5	26.6	26.0	26.3	27.5	26.9	27.1	22.1	21.5	21.8
25	25.0	24.4	24.7	26.6	26.2	26.4	27.1	26.6	26.8	22.1	21.5	21.8
26	24.8	24.4	24.6	26.8	26.4	26.6	27.0	26.3	26.7	21.7	21.3	21.4
27	25.0	24.2	24.7	26.9	26.5	26.7	26.4	26.0	26.2	21.6	20.9	21.2
28	25.2	24.0	24.7	26.6	25.4	25.9	27.2	26.2	26.6	21.8	21.0	21.3
29	25.0	24.2	24.7	26.7	25.4	26.0	27.3	26.5	26.8	22.0	21.2	21.6
30	25.1	23.7	24.4	27.6	26.1	26.8	27.1	26.9	26.9	22.2	21.2	21.6
31	---	---	---	27.7	27.0	27.3	27.1	26.9	27.0	---	---	---
MONTH	25.2	18.3	22.3	27.7	23.5	25.9	28.4	26.0	27.0	27.1	20.9	24.0

OXYGEN, DISSOLVED (DO), 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	7.1	5.9	6.5	8.3	7.9	8.1	9.1	8.7	9.0	9.5	9.3	9.4
2	7.5	6.1	6.9	9.4	8.3	8.7	9.1	8.6	8.8	9.5	9.2	9.4
3	7.8	7.0	7.4	9.0	8.3	8.6	8.7	8.3	8.5	9.8	9.2	9.5
4	7.6	7.3	7.5	9.6	8.6	8.9	8.4	8.1	8.2	9.7	9.4	9.6
5	8.0	6.8	7.6	8.9	8.5	8.7	8.3	7.8	8.0	9.8	9.4	9.6
6	8.3	6.6	7.8	9.2	8.3	8.7	8.3	7.6	7.8	9.6	9.4	9.4
7	9.3	6.2	8.2	9.7	8.5	9.0	7.9	7.6	7.7	9.7	9.5	9.6
8	8.8	7.3	8.2	9.8	8.4	9.2	8.9	7.7	8.0	9.9	9.4	9.6
9	9.5	7.6	8.7	9.5	8.7	9.1	8.4	8.0	8.2	9.7	9.0	9.4
10	9.5	7.9	8.7	8.8	8.2	8.5	9.0	8.3	8.5	9.4	9.0	9.2
11	9.6	8.6	8.9	8.9	8.4	8.6	9.1	8.5	8.9	9.2	9.0	9.2
12	9.0	8.3	8.7	9.2	8.0	8.9	9.2	9.0	9.1	9.3	8.9	9.1
13	8.9	7.9	8.4	9.0	8.0	8.8	9.9	9.2	9.4	9.0	8.7	8.9
14	8.9	7.4	8.1	9.6	8.9	9.1	9.9	9.3	9.6	8.9	8.5	8.7
15	8.3	7.5	8.0	9.5	8.9	9.1	9.9	9.7	9.8	8.8	8.5	8.6
16	9.2	7.9	8.5	9.5	9.0	9.3	9.9	9.7	9.8	8.7	8.5	8.6
17	9.9	8.9	9.2	9.3	9.0	9.2	9.7	9.6	9.6	9.8	8.7	8.8
18	9.5	8.3	8.9	9.3	8.8	9.0	9.6	9.3	9.4	8.8	8.6	8.7
19	9.0	8.0	8.5	9.1	7.8	8.8	9.3	9.0	9.2	8.7	8.6	8.7
20	9.7	7.6	8.1	9.3	8.5	8.9	9.6	9.0	9.3	8.7	8.5	8.6
21	9.3	8.1	8.5	9.9	9.1	9.5	9.5	9.2	9.4	8.8	8.5	8.6
22	9.3	8.2	8.8	10.4	9.3	9.9	9.7	9.3	9.6	9.0	8.8	8.9
23	9.5	7.8	8.6	10.2	9.4	9.7	9.6	9.4	9.5	9.2	8.9	9.0
24	9.2	8.8	9.1	9.8	9.3	9.5	9.5	9.4	9.4	9.3	9.1	9.2
25	8.9	8.1	8.6	9.6	8.8	9.3	9.5	9.2	9.4	9.4	9.3	9.3
26	8.7	7.5	8.2	9.4	8.9	9.1	9.7	9.4	9.5	9.5	9.2	9.4
27	9.0	7.0	8.1	9.6	9.0	9.3	9.8	8.7	9.6	9.6	9.3	9.5
28	9.9	9.0	9.4	9.6	7.6	8.6	9.7	9.4	9.5	9.6	9.4	9.5
29	9.1	7.4	7.8	9.1	7.8	8.7	9.9	9.4	9.6	9.7	9.4	9.5
30	7.7	7.0	7.4	9.0	8.8	8.9	9.5	9.4	9.4	9.6	9.4	9.5
31	7.9	6.7	7.3	---	---	---	9.4	9.1	9.3	9.6	9.5	9.5
MONTH	9.9	5.9	8.2	10.4	7.6	9.0	9.9	7.6	9.1	9.9	8.5	9.2

CUMBERLAND RIVER BASIN

03435000 CUMBERLAND RIVER BELOW CHEATHAM DAM, TN--Continued

OXYGEN, DISSOLVED (DO), 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	9.8	9.4	9.6	11.0	10.9	11.0	12.1	10.7	11.4	10.2	9.7	10.0
2	9.9	9.6	9.8	11.2	10.9	11.1	12.0	11.0	11.6	10.2	9.6	9.9
3	9.8	9.6	9.7	11.5	11.1	11.3	12.9	11.6	12.2	10.1	9.7	9.9
4	9.9	9.7	9.8	11.6	11.3	11.5	12.2	11.6	11.9	9.7	8.9	9.3
5	10.2	9.9	10.0	11.7	11.2	11.5	11.9	11.2	11.5	9.2	8.9	9.0
6	10.6	10.1	10.4	11.9	11.5	11.7	11.5	10.8	11.1	9.4	9.0	9.2
7	10.7	10.4	10.6	11.5	10.7	11.0	11.0	10.5	10.8	10.0	9.1	9.4
8	11.2	10.7	11.0	11.0	10.4	10.6	10.9	10.2	10.5	10.0	9.3	9.6
9	11.4	11.0	11.2	11.0	10.8	10.9	10.6	9.6	10.2	9.7	9.2	9.5
10	11.6	11.2	11.4	11.0	10.8	11.0	10.4	9.7	10.1	9.6	8.1	8.8
11	11.7	11.3	11.5	11.3	10.7	10.8	10.3	9.7	10.0	8.1	7.3	7.5
12	12.2	11.7	11.9	10.9	10.6	10.7	9.9	9.4	9.6	8.6	7.7	8.1
13	12.2	11.8	12.0	10.9	10.6	10.7	10.1	9.5	9.7	8.3	7.8	8.0
14	12.6	11.7	12.2	10.8	10.5	10.7	9.9	9.6	9.7	8.1	7.8	8.0
15	12.7	11.4	12.2	10.5	10.1	10.3	10.0	9.3	9.6	8.5	7.2	7.8
16	12.4	11.8	11.9	10.1	10.0	10.1	10.1	9.7	9.9	8.9	8.1	8.3
17	12.6	12.0	12.2	10.1	9.8	10.0	10.6	10.0	10.2	8.2	7.7	7.8
18	12.4	12.2	12.3	10.3	9.9	10.1	10.5	9.7	10.2	8.2	7.6	7.8
19	12.4	12.1	12.2	10.6	10.3	10.4	10.5	9.8	10.1	8.3	7.6	7.8
20	12.3	12.2	12.2	10.8	10.5	10.7	10.3	9.8	10.1	9.1	8.3	8.7
21	12.3	12.1	12.2	11.0	10.7	10.8	10.0	9.1	9.4	9.2	9.0	9.1
22	12.3	12.0	12.1	11.3	10.8	11.1	9.3	8.8	9.0	9.2	8.3	8.7
23	12.1	11.8	12.0	11.6	11.0	11.3	9.0	8.6	8.9	8.6	8.2	8.4
24	12.2	12.0	12.1	11.7	11.2	11.5	10.5	8.9	9.2	8.8	8.1	8.5
25	12.1	11.5	11.8	12.1	11.4	11.8	10.2	9.2	9.6	9.2	8.6	8.9
26	11.5	11.2	11.4	12.1	11.8	12.0	10.1	9.7	9.8	9.3	8.7	9.0
27	12.0	11.2	11.3	12.4	11.6	11.9	10.3	9.8	10.0	9.3	8.4	9.0
28	11.2	11.0	11.1	12.5	11.6	11.9	10.8	10.1	10.3	9.3	8.0	8.9
29	---	---	---	12.1	10.6	11.4	10.7	10.0	10.4	9.4	8.5	8.9
30	---	---	---	11.3	10.3	10.8	10.6	10.1	10.3	9.4	7.8	9.1
31	---	---	---	11.6	10.6	11.0	---	---	---	---	---	---
MONTH	12.7	9.4	11.4	12.5	9.8	11.0	12.9	8.6	10.2	10.2	7.2	8.8
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	7.8	6.5	6.9	9.3	7.5	8.7	7.2	6.1	6.5
2	9.9	9.5	9.6	7.3	6.6	6.9	---	---	---	7.0	5.9	6.4
3	10.1	8.9	9.4	6.8	5.8	6.3	---	---	---	7.4	6.3	6.8
4	9.9	9.1	9.5	7.3	6.2	6.7	8.0	6.9	7.3	7.2	6.5	6.8
5	10.0	9.2	9.6	7.6	6.3	6.8	6.9	6.2	6.5	7.8	6.7	7.1
6	10.2	9.3	9.7	7.8	6.1	6.9	7.1	6.2	6.5	7.3	6.5	7.1
7	9.9	9.2	9.5	7.8	6.6	7.2	7.0	6.2	6.7	7.2	6.5	7.0
8	9.9	9.1	9.6	8.2	6.6	7.3	6.7	5.6	6.1	7.0	6.2	6.6
9	9.8	8.5	9.0	8.3	7.5	7.9	5.6	5.0	5.2	6.5	5.6	6.1
10	9.0	8.1	8.4	8.7	7.2	8.1	5.9	4.5	5.2	6.1	5.4	5.7
11	8.4	7.7	8.0	8.5	7.3	7.9	6.0	4.3	5.0	6.0	5.4	5.6
12	8.0	7.4	7.7	8.7	8.1	8.4	7.1	5.0	5.8	6.1	5.5	5.8
13	8.1	7.5	7.8	8.7	8.1	8.4	8.1	5.9	6.9	5.8	5.3	5.5
14	7.9	7.5	7.7	8.4	7.1	7.7	7.8	5.7	6.5	5.8	5.0	5.4
15	7.8	7.1	7.4	7.5	6.4	6.8	7.9	5.6	6.5	5.8	5.1	5.4
16	7.6	7.2	7.4	8.2	6.7	7.3	7.9	6.7	7.2	5.3	3.9	4.7
17	7.9	7.1	7.5	7.9	7.0	7.4	7.1	5.0	6.0	5.3	4.1	4.7
18	7.9	6.6	7.3	8.7	6.9	7.8	7.1	5.0	5.7	6.1	5.3	5.6
19	7.2	6.5	6.9	9.1	7.2	8.3	7.2	4.6	5.7	6.4	5.6	5.9
20	7.0	6.2	6.5	8.9	8.1	8.6	6.3	5.3	5.8	6.0	5.2	5.6
21	7.2	6.0	6.7	8.9	8.0	8.4	6.6	6.0	6.3	6.0	4.6	5.5
22	7.1	6.0	6.6	8.9	7.7	8.2	6.9	5.8	6.6	6.3	4.7	5.5
23	6.5	5.8	6.2	8.5	6.7	8.0	7.3	5.8	6.7	6.4	4.9	5.5
24	7.1	5.9	6.4	8.7	6.7	8.0	7.6	6.0	7.0	6.7	5.9	6.2
25	7.5	6.6	6.9	8.4	6.8	7.7	8.2	6.6	7.3	7.0	5.6	6.3
26	7.0	6.5	6.7	9.0	6.7	7.8	7.9	6.8	7.3	6.6	5.2	5.8
27	7.7	6.2	6.6	8.6	6.8	7.6	7.7	6.3	7.1	7.6	5.5	6.4
28	6.8	6.1	6.5	7.7	6.4	7.1	8.3	6.4	7.2	8.0	6.7	7.3
29	6.9	6.1	6.5	8.2	6.4	7.4	8.0	6.5	7.2	8.9	7.3	8.0
30	7.5	6.5	6.8	8.2	5.7	6.6	7.8	6.2	6.9	9.3	7.7	8.4
31	---	---	---	9.1	7.6	8.4	7.0	6.2	6.6	---	---	---
MONTH	10.2	5.8	7.7	9.1	5.7	7.6	9.3	4.3	6.5	9.3	3.9	6.2

CUMBERLAND RIVER BASIN

03435305 RED RIVER BELOW HIGHWAY 161 NEAR BARREN PLAINS, TN

LOCATION.--Lat 36°38'32", long 86°59'18", Robertson County, Hydrologic Unit 05130206, on left bank in pump house of Springfield water plant, 0.2 mi south of Kentucky-Tennessee state line, 0.7 mi below Highway 161 bridge, 4.8 mi northwest of Barren Plains.

DRAINAGE AREA.--549 mi², includes 246 mi² without surface drainage.

PERIOD OF RECORD.--October 1994 to September 1995. Occasional low-flow measurements, water years 1966-1967 at site 1.8 mi upstream.

GAGE.-- Data Logger. Datum of gage is 440.00 above sea level (levels based on information provided by City of Springfield).

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Feb. 15	2115	5,080	11.95	May 9	2345	4,910	11.79
Mar. 8	1530	9,610	15.76	May 19	1130	*13,600	*19.19

Minimum discharge, 59 ft³/s, Oct. 7, 8, Nov. 4, 5.

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	78	69	339	210	562	564	305	310	638	252	162	89
2	73	64	268	202	541	514	293	524	809	241	150	88
3	69	61	228	190	516	480	277	538	933	230	152	89
4	69	60	224	183	485	446	265	417	702	232	147	88
5	65	64	550	174	443	462	252	367	604	396	193	84
6	65	82	619	320	401	627	244	330	556	322	351	84
7	60	95	453	2550	377	1330	238	302	595	280	332	82
8	61	129	365	1370	362	6970	231	281	544	252	376	88
9	74	111	313	949	337	3800	225	2760	474	235	272	93
10	83	99	713	788	324	2490	216	3120	422	225	225	92
11	110	89	2940	699	326	1980	212	1680	393	216	321	89
12	92	82	1420	717	311	1640	226	1300	391	202	219	86
13	142	82	1010	702	282	1400	238	1100	399	191	187	87
14	244	80	807	764	277	1220	225	1730	350	183	167	95
15	165	74	670	1640	2360	1080	212	3020	312	176	155	93
16	120	81	586	2320	4310	973	202	1840	286	172	145	103
17	95	76	564	1610	3360	874	200	1800	266	167	136	105
18	83	74	601	1290	2220	781	194	3660	251	163	142	103
19	80	74	513	1380	1800	710	191	11400	259	155	152	103
20	90	73	448	2250	1510	664	492	4690	562	149	151	96
21	133	71	409	1590	1310	638	1030	2510	547	145	133	91
22	110	68	377	1290	1120	595	987	1940	404	151	123	90
23	98	68	352	1100	996	555	640	1610	381	169	118	85
24	87	65	332	956	886	508	544	1390	369	176	111	84
25	79	67	307	827	779	461	486	1220	345	181	107	84
26	74	69	283	738	709	426	412	1220	321	176	105	92
27	73	96	264	675	657	403	364	1080	292	181	105	91
28	70	1510	249	673	612	381	331	1010	272	202	101	92
29	69	917	239	795	---	358	306	922	258	209	95	88
30	69	480	227	692	---	334	299	814	253	180	93	84
31	69	---	217	604	---	318	---	727	---	171	91	---
TOTAL	2849	5030	16887	30248	28173	33982	10337	55612	13188	6380	5317	2718
MEAN	91.9	168	545	976	1006	1096	345	1794	440	206	172	90.6
MAX	244	1510	2940	2550	4310	6970	1030	11400	933	396	376	105
MIN	60	60	217	174	277	318	191	281	251	145	91	82
CFSM	.30	.55	1.80	3.22	3.32	3.62	1.14	5.92	1.45	.68	.57	.30
IN.	.35	.62	2.07	3.71	3.46	4.17	1.27	6.83	1.62	.78	.65	.33

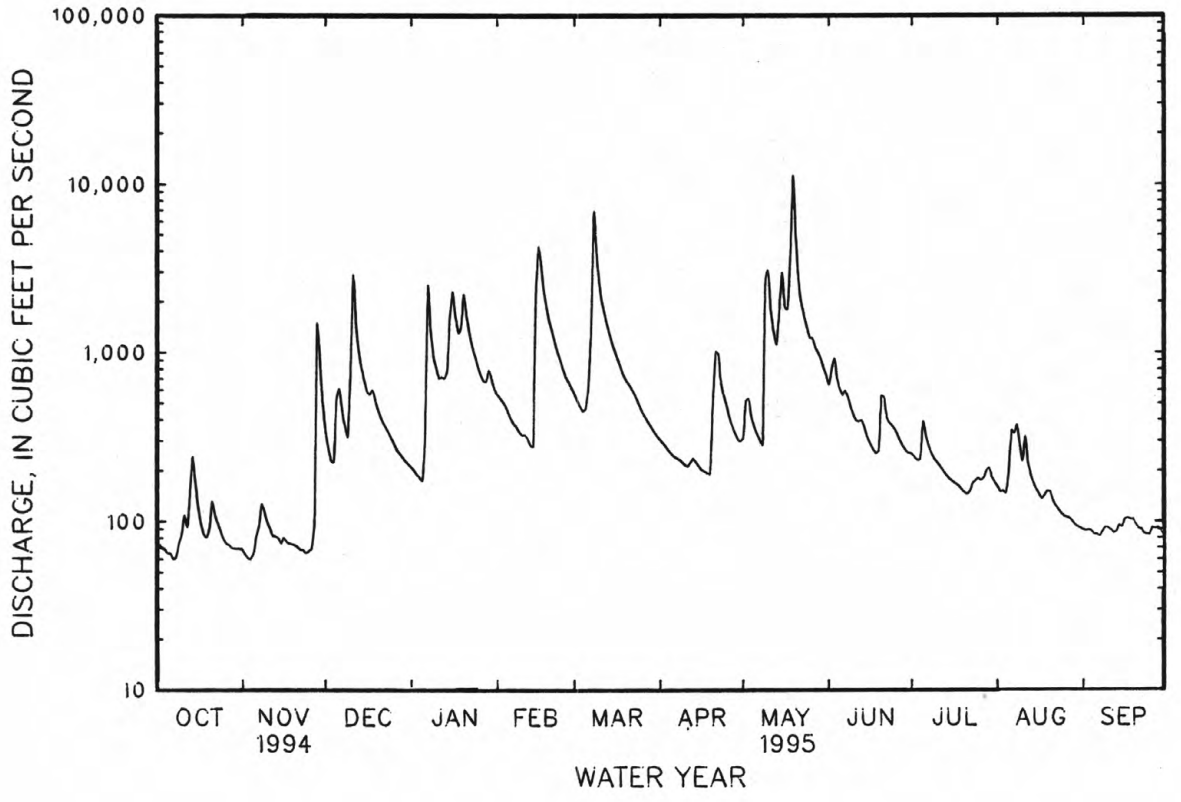
CUMBERLAND RIVER BASIN

03435305 RED RIVER BELOW HIGHWAY 161 NEAR BARREN PLAINS, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	91.9	168	545	976	1006	1096	345	1794	440	206	172	90.6
MAX	91.9	168	545	976	1006	1096	345	1794	440	206	172	90.6
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MIN	91.9	168	545	976	1006	1096	345	1794	440	206	172	90.6
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995

SUMMARY STATISTICS	FOR 1995 WATER YEAR		WATER YEARS 1994 - 1995	
ANNUAL TOTAL	210721			
ANNUAL MEAN	577		577	
HIGHEST ANNUAL MEAN			577	1995
LOWEST ANNUAL MEAN			577	1995
HIGHEST DAILY MEAN	11400	May 19	11400	May 19 1995
LOWEST DAILY MEAN	60	Oct 7	60	Oct 7 1994
ANNUAL SEVEN-DAY MINIMUM	65	Oct 30	65	Oct 30 1994
INSTANTANEOUS PEAK FLOW	13600	May 19	13600	May 19 1995
INSTANTANEOUS PEAK STAGE	19.19	May 19	19.19	May 19 1995
INSTANTANEOUS LOW FLOW	59	Oct 7	59	Oct 7 1994
ANNUAL RUNOFF (CFSM)	1.91		1.91	
ANNUAL RUNOFF (INCHES)	25.87		25.89	
10 PERCENT EXCEEDS	1370		1340	
50 PERCENT EXCEEDS	282		272	
90 PERCENT EXCEEDS	82		81	



CUMBERLAND RIVER BASIN

03436420 PINEY FORK AT FORT CAMPBELL, KY-TN

LOCATION.--Lat 36°36'59", long 87°30'51", Montgomery County, Hydrologic Unit 05130206, on right downstream end of bridge pier on Boiling Spring Road, 0.4 mi above Noahs Spring Branch, 0.5 mi southeast of intersection with Mabry Road, 6.6 mi northeast of Oakwood.

DRAINAGE AREA.--50.2 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 423.24 ft above sea level.

REMARKS.--Records good, except for estimated daily discharges which are poor. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar. 7	2030	*629	*8.04	No other peaks greater than base discharge.			

No flow many days.

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	.00	.00	.00	.00	e5.0	13	e3.7	86	9.8	.82	1.7	.00
2	.00	.00	.00	.00	e4.5	11	e2.8	133	41	.00	.04	.00
3	.00	.00	.00	.00	e4.0	10	e2.3	56	44	.00	.00	.00
4	.00	.00	.00	.00	e3.5	9.3	e1.9	32	22	.00	.00	.00
5	.00	.00	.00	.00	e3.0	29	e1.5	24	13	19	20	.00
6	.00	.00	.00	96	e2.6	98	e1.3	17	15	11	27	.00
7	.00	.00	.00	211	e2.0	319	e1.0	13	283	7.1	10	.00
8	.00	.00	.00	63	e1.5	329	e.60	9.6	138	4.8	9.5	.00
9	.00	.00	.00	24	e1.4	168	e.25	18	52	2.9	70	.00
10	.00	.00	181	14	e1.3	116	e.00	16	29	1.3	70	.00
11	.00	.00	118	15	e1.3	84	e.00	10	21	.00	21	.00
12	.00	.00	29	36	e1.2	62	e.00	8.4	19	.00	12	.00
13	.00	.00	11	19	e1.1	50	e.00	7.1	15	.00	9.1	.00
14	.00	.00	5.9	311	e1.1	39	e.00	6.1	11	.00	6.9	.00
15	.00	.00	3.9	235	e80	33	e.00	160	8.7	.00	5.0	.00
16	.00	.00	2.9	144	e350	28	e.00	104	7.3	.00	3.4	.00
17	.00	.00	3.3	90	220	24	e.00	99	5.7	.00	2.0	.00
18	.00	.00	3.6	62	140	20	e.00	288	4.5	.00	.29	.00
19	.00	.00	2.6	e125	100	18	e.00	298	4.3	.00	.00	.00
20	.00	.00	1.8	e78	76	17	e4.0	132	6.3	.00	.00	.00
21	.00	.00	1.1	e46	57	16	48	75	6.5	.00	.00	.00
22	.00	.00	.40	e27	43	14	30	48	5.6	.00	.00	.00
23	.00	.00	.00	e24	34	13	18	33	5.1	1.6	.00	.00
24	.00	.00	.00	e21	28	11	36	25	12	2.6	.00	.00
25	.00	.00	.00	e16	23	9.4	24	19	9.7	7.6	.00	.00
26	.00	.00	.00	e13	20	8.4	15	56	7.2	6.2	.00	.00
27	.00	.00	.00	e11	17	7.8	11	39	4.9	5.7	.00	.00
28	.00	.00	.00	e9.0	15	e7.5	8.3	27	3.4	5.1	.00	.00
29	.00	.00	.00	e8.0	---	e7.0	6.9	24	2.8	6.7	.00	.00
30	.00	.00	.00	e7.0	---	e5.8	6.9	15	1.6	5.2	.00	.00
31	.00	---	.00	e6.0	---	e4.5	---	11	---	3.4	.00	---
TOTAL	0.00	0.00	364.50	1711.00	1236.5	1581.7	223.45	1889.2	808.4	91.02	267.93	0.00
MEAN	.000	.000	11.8	55.2	44.2	51.0	7.45	60.9	26.9	2.94	8.64	.000
MAX	.00	.00	181	311	350	329	48	298	283	19	70	.00
MIN	.00	.00	.00	.00	1.1	4.5	.00	6.1	1.6	.00	.00	.00
CFSM	.00	.00	.23	1.10	.88	1.02	.15	1.21	.54	.06	.17	.00
IN.	.00	.00	.27	1.27	.92	1.17	.17	1.40	.60	.07	.20	.00

e Estimated

CUMBERLAND RIVER BASIN

03436420 PINEY FORK AT FORT CAMPBELL, KY-TN--Continued

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

MEAN	.000	1.62	35.6	100	169	147	97.6	41.7	17.4	1.64	2.88	.000
MAX	.000	3.23	59.4	145	293	243	188	60.9	26.9	2.94	8.64	.000
(WY)	1994	1994	1994	1994	1994	1994	1994	1995	1995	1995	1995	1993
MIN	.000	.000	11.8	55.2	44.2	51.0	7.45	22.5	7.94	.34	.000	.000
(WY)	1994	1995	1995	1995	1995	1995	1995	1994	1994	1994	1993	1993

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1993 - 1995	
ANNUAL TOTAL	27157.16		8173.70			
ANNUAL MEAN	74.4		22.4		50.6	
HIGHEST ANNUAL MEAN					78.7	1994
LOWEST ANNUAL MEAN					22.4	1995
HIGHEST DAILY MEAN	2060	Mar 27	350	Feb 16	2060	Mar 27 1994
LOWEST DAILY MEAN	.00	Jun 2	.00	Oct 1	.00	Jul 13 1993
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 2	.00	Oct 1	.00	Jul 13 1993
INSTANTANEOUS PEAK FLOW			629	Mar 7	3110	Mar 27 1994
INSTANTANEOUS PEAK STAGE			8.04	Mar 7	13.57	Mar 27 1994
INSTANTANEOUS LOW FLOW			a.00	Oct 1	a.00	Aug 1 1993
ANNUAL RUNOFF (CFSM)	1.48		.45		1.01	
ANNUAL RUNOFF (INCHES)	20.12		6.06		13.68	
10 PERCENT EXCEEDS	203		62		114	
50 PERCENT EXCEEDS	.00		2.6		.27	
90 PERCENT EXCEEDS	.00		.00		.00	

a Many days each year.

CUMBERLAND RIVER BASIN

03436421 BOILING SPRINGS AT FORT CAMPBELL, KY-TN

WATER-QUALITY RECORDS

LOCATION.--Lat 36°37'12", long 87°30'23", Montgomery County, Hydrologic Unit 05130206, in water supply pump house at Fort Campbell, KY-TN.

PERIOD OF RECORD.--November 1994 to September 1995.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1994 to September 1995.
pH: November 1994 to September 1995.
WATER TEMPERATURE: November 1994 to September 1995.

INSTRUMENTATION.--Data Logger and water-quality monitor.

REMARKS.-- Interruptions in the record were due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 433 microsiemens, Nov. 5; 1995; minimum, 228 microsiemens, May. 21, 1995.
pH: Maximum, 7.2 units, Nov. 4, 5, 1994, May 9, June 20, 1995; minimum, 6.5 units, Dec. 6-9, 14, 16-20, 1994, Aug. 25, 1995.
WATER TEMPERATURE: Maximum, 15.6°C, Sept. 14, 1995; minimum, 12.3°C, Feb. 15, 1995.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 433 microsiemens, Nov. 5; minimum, 228 microsiemens, May 21.
pH: Maximum, 7.2 units, Nov. 4, 5, 1994, May 9, June 20; minimum, 6.5 units, Dec. 6-9, 14, 16-20, Aug. 25.
WATER TEMPERATURE: Maximum, 15.6°C, Sept. 14; minimum, 12.3°C, Feb. 15.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), 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	---	---	---	418	409	414	378	371	373	349	341	345
2	---	---	---	424	409	417	375	369	371	347	341	343
3	---	---	---	425	406	417	374	370	371	348	342	344
4	---	---	---	427	404	414	375	370	372	350	343	346
5	---	---	---	433	410	419	375	371	373	350	343	347
6	---	---	---	433	409	418	375	369	372	369	342	350
7	---	---	---	417	401	411	373	368	371	374	350	363
8	---	---	---	417	407	411	374	368	371	357	339	347
9	---	---	---	417	404	409	374	370	372	342	329	334
10	---	---	---	416	406	410	396	356	377	333	324	328
11	---	---	---	419	406	412	390	355	372	329	325	327
12	---	---	---	416	405	409	355	336	344	330	326	328
13	---	---	---	414	404	409	336	328	332	332	324	328
14	---	---	---	414	403	408	332	326	328	342	330	337
15	---	---	---	421	404	411	332	327	330	340	324	330
16	---	---	---	418	404	412	334	330	332	326	312	318
17	---	---	---	423	406	414	337	332	334	314	309	311
18	---	---	---	418	411	413	341	333	336	315	307	312
19	---	---	---	430	406	414	338	333	336	329	313	323
20	---	---	---	417	407	413	339	334	336	322	308	315
21	---	---	---	420	404	412	341	336	338	310	302	305
22	---	---	---	420	401	411	342	335	338	306	302	304
23	---	---	---	416	403	410	343	338	340	310	304	308
24	---	---	---	417	405	410	342	336	340	315	308	312
25	---	---	---	413	404	409	342	337	340	317	313	315
26	---	---	---	413	400	408	344	338	340	321	313	318
27	---	---	---	413	384	404	345	338	341	325	316	321
28	---	---	---	416	386	402	344	340	342	326	321	323
29	---	---	---	403	382	393	345	339	342	326	318	322
30	---	---	---	385	376	380	348	341	343	326	318	322
31	---	---	---	---	---	---	346	341	343	326	318	323
MONTH	---	---	---	433	376	410	396	326	350	374	302	327

CUMBERLAND RIVER BASIN

03436421 BOILING SPRINGS AT FORT CAMPBELL, KY-TN--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), 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	327	320	323	310	296	299	316	309	313	308	301	305
2	329	319	323	311	296	301	318	310	313	310	291	299
3	329	320	323	311	297	301	322	312	316	296	280	287
4	330	320	324	309	297	301	---	---	---	282	273	276
5	326	319	322	314	298	302	331	316	321	278	268	272
6	325	317	321	315	297	303	325	318	322	273	262	267
7	325	318	321	316	297	303	327	318	322	339	259	290
8	326	317	321	328	297	311	327	320	323	341	321	334
9	327	317	321	301	284	291	330	319	324	341	286	315
10	323	317	319	286	279	282	329	321	324	308	296	301
11	329	317	322	299	293	296	332	324	328	308	235	275
12	331	318	323	300	294	297	334	328	331	320	236	282
13	322	316	319	301	294	297	335	327	332	318	302	310
14	327	315	319	301	293	296	338	329	333	326	305	319
15	355	319	334	301	292	297	340	333	336	315	239	249
16	338	307	323	302	293	297	344	334	338	247	235	239
17	309	292	300	303	292	296	342	336	338	312	235	269
18	295	288	291	301	294	297	344	338	340	345	306	317
19	290	287	289	304	294	300	346	340	342	343	292	318
20	293	288	290	306	293	298	349	342	345	310	242	291
21	292	290	291	301	291	294	350	340	344	298	228	264
22	296	289	293	306	289	295	346	333	338	300	280	289
23	300	292	296	297	288	293	337	326	332	302	279	291
24	300	292	297	298	291	293	335	324	329	314	295	305
25	303	294	298	297	289	292	332	322	326	---	---	---
26	305	295	299	297	289	292	408	318	353	---	---	---
27	310	296	299	294	288	291	418	396	408	---	---	---
28	310	297	300	---	---	---	405	312	328	---	---	---
29	---	---	---	314	293	305	320	307	313	---	---	---
30	---	---	---	314	305	310	314	304	308	---	---	---
31	---	---	---	315	308	311	---	---	---	---	---	---
MONTH	355	287	311	328	279	298	418	304	332	345	228	290
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	335	329	331	346	343	344	375	368	372
2	---	---	---	333	329	331	347	342	345	377	368	372
3	---	---	---	335	328	332	347	343	345	377	371	373
4	---	---	---	336	329	332	347	344	346	383	368	374
5	---	---	---	339	331	335	351	346	349	384	366	374
6	---	---	---	339	331	334	352	346	348	384	370	376
7	---	---	---	334	329	331	350	340	345	383	373	378
8	---	---	---	346	329	334	344	338	341	385	375	380
9	---	---	---	337	331	334	347	339	342	393	380	384
10	---	---	---	338	332	334	347	338	342	393	380	384
11	---	---	---	337	332	334	344	338	340	389	377	383
12	---	---	---	338	334	336	341	337	339	393	381	386
13	---	---	---	339	336	338	343	337	340	395	383	388
14	---	---	---	354	337	341	341	338	340	395	384	389
15	---	---	---	346	339	343	343	339	341	397	385	391
16	---	---	---	346	343	345	345	342	343	397	387	393
17	---	---	---	349	344	346	346	341	343	397	387	392
18	---	---	---	352	347	349	348	342	344	410	386	391
19	---	---	---	355	349	351	350	344	346	400	386	390
20	329	325	328	354	350	352	363	345	347	398	386	391
21	334	326	328	359	353	356	349	345	347	401	386	393
22	332	324	328	363	353	357	353	346	349	406	388	395
23	332	326	329	357	347	352	353	350	351	400	390	394
24	336	330	333	351	342	346	357	349	353	396	393	395
25	337	331	333	347	342	344	355	352	354	402	388	395
26	335	329	331	346	340	343	362	354	357	402	389	397
27	334	327	330	344	339	341	364	355	359	406	392	399
28	332	327	330	342	339	340	365	355	361	404	391	399
29	333	330	331	344	340	342	366	361	364	407	398	402
30	332	329	330	345	342	343	369	362	366	412	398	403
31	---	---	---	345	341	343	372	365	369	---	---	---
MONTH	337	324	330	363	328	341	372	337	348	412	366	388

CUMBERLAND RIVER BASIN

03436421 BOILING SPRINGS AT FORT CAMPBELL, KY-TN--Continued

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

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

CUMBERLAND RIVER BASIN

03436421 BOILING SPRINGS AT FORT CAMPBELL, KY-TN--Continued

TEMPERATURE, WATER (DEG. C), 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	---	---	---	---	---	---	13.9	13.9	13.9	13.7	13.6	13.6
2	---	---	---	---	---	---	13.9	13.8	13.9	13.6	13.5	13.6
3	---	---	---	---	---	---	13.9	13.8	13.9	13.6	13.5	13.6
4	---	---	---	---	---	---	13.9	13.8	13.9	13.6	13.5	13.6
5	---	---	---	---	---	---	13.9	13.8	13.9	13.6	13.5	13.6
6	---	---	---	---	---	---	13.9	13.8	13.9	13.7	12.9	13.5
7	---	---	---	---	---	---	13.9	13.8	13.9	13.8	13.5	13.7
8	---	---	---	---	---	---	13.9	13.8	13.9	13.6	13.5	13.5
9	---	---	---	14.1	13.5	13.8	13.9	13.8	13.9	13.6	13.4	13.5
10	---	---	---	13.8	13.6	13.7	14.1	13.5	13.9	13.6	13.4	13.5
11	---	---	---	13.9	13.6	13.7	14.1	13.8	14.0	13.5	13.5	13.5
12	---	---	---	13.9	13.7	13.8	13.9	13.8	13.9	13.5	13.5	13.5
13	---	---	---	13.9	13.7	13.8	13.9	13.8	13.8	13.5	13.4	13.5
14	---	---	---	14.1	13.8	13.9	13.8	13.7	13.8	13.7	13.5	13.6
15	---	---	---	14.2	14.0	14.1	13.8	13.7	13.8	13.7	13.4	13.5
16	---	---	---	14.3	14.0	14.2	13.8	13.7	13.8	13.5	13.4	13.4
17	---	---	---	14.4	13.6	14.1	13.8	13.7	13.8	13.4	13.4	13.4
18	---	---	---	14.1	13.6	14.0	13.8	13.7	13.8	13.5	13.3	13.4
19	---	---	---	14.2	13.8	14.1	13.8	13.7	13.7	13.6	13.4	13.6
20	---	---	---	14.1	13.9	14.1	13.8	13.7	13.7	13.6	13.4	13.5
21	---	---	---	14.2	14.0	14.1	13.8	13.7	13.7	13.5	13.4	13.5
22	---	---	---	14.2	13.6	14.0	13.7	13.6	13.7	13.5	13.4	13.5
23	---	---	---	14.1	13.4	13.9	13.7	13.7	13.7	13.5	13.3	13.4
24	---	---	---	14.2	13.6	14.0	13.7	13.6	13.7	13.4	13.3	13.3
25	---	---	---	14.1	13.7	14.0	13.7	13.6	13.7	13.4	13.3	13.4
26	---	---	---	14.1	13.4	14.0	13.7	13.6	13.7	13.4	13.3	13.3
27	---	---	---	14.1	13.8	14.0	13.7	13.6	13.7	13.5	13.1	13.3
28	---	---	---	14.2	13.8	14.0	13.7	13.6	13.7	13.2	13.1	13.2
29	---	---	---	14.1	13.5	14.0	13.7	13.6	13.6	13.2	13.1	13.2
30	---	---	---	14.0	13.9	14.0	13.7	13.6	13.6	13.2	13.1	13.2
31	---	---	---	---	---	---	13.6	13.6	13.6	13.2	13.1	13.2
MONTH	---	---	---	14.4	13.4	14.0	14.1	13.5	13.8	13.8	12.9	13.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	13.2	13.1	13.2	13.4	13.2	13.3	13.5	13.4	13.5	13.7	13.5	13.6
2	13.3	13.1	13.2	13.4	13.2	13.3	13.5	13.4	13.5	13.7	13.6	13.6
3	13.3	13.1	13.2	13.4	13.2	13.3	13.5	13.4	13.5	13.7	13.6	13.6
4	13.3	13.1	13.2	13.4	13.2	13.3	13.5	13.4	13.5	13.6	13.5	13.6
5	13.2	13.1	13.2	13.4	13.2	13.3	13.5	13.4	13.5	13.6	13.5	13.6
6	13.2	13.1	13.2	13.4	13.2	13.3	13.6	13.4	13.5	13.7	13.6	13.6
7	13.2	13.1	13.2	13.4	13.2	13.3	13.5	13.4	13.5	13.7	13.6	13.7
8	13.2	13.1	13.2	13.6	13.3	13.5	13.5	13.4	13.5	13.7	13.6	13.7
9	13.2	13.1	13.2	13.4	13.2	13.4	13.6	13.4	13.5	13.7	13.7	13.7
10	13.2	13.1	13.1	13.4	13.3	13.4	13.5	13.4	13.5	13.7	13.6	13.7
11	13.2	13.0	13.1	13.4	13.4	13.4	13.6	13.4	13.5	13.7	13.6	13.7
12	13.3	13.1	13.2	13.5	13.3	13.4	13.6	13.5	13.6	13.7	13.6	13.7
13	13.2	13.1	13.2	13.5	13.3	13.4	13.6	13.5	13.5	13.7	13.6	13.7
14	13.2	13.1	13.2	13.5	13.3	13.4	13.6	13.5	13.5	13.7	13.6	13.7
15	13.6	12.3	13.1	13.5	13.4	13.4	13.6	13.5	13.6	13.8	13.6	13.7
16	13.4	13.2	13.3	13.5	13.4	13.4	13.6	13.5	13.6	13.7	13.6	13.6
17	13.3	13.2	13.3	13.5	13.4	13.4	13.6	13.5	13.6	13.7	13.6	13.6
18	13.3	13.2	13.3	13.5	13.4	13.5	13.6	13.5	13.6	13.8	13.6	13.7
19	13.3	13.2	13.3	13.5	13.4	13.5	13.6	13.5	13.6	13.9	13.7	13.8
20	13.4	13.3	13.3	13.5	13.3	13.4	13.5	13.4	13.5	13.7	13.6	13.7
21	13.3	13.3	13.3	13.5	13.4	13.4	13.5	13.4	13.5	13.7	13.6	13.7
22	13.4	13.2	13.3	13.5	13.4	13.5	13.6	13.4	13.5	13.7	13.6	13.7
23	13.4	13.2	13.3	13.5	13.4	13.4	13.5	13.4	13.5	13.7	13.6	13.6
24	13.4	13.2	13.3	13.5	13.4	13.5	13.6	13.4	13.6	13.7	13.6	13.6
25	13.4	13.2	13.3	13.5	13.4	13.5	13.6	13.5	13.6	13.7	13.6	13.7
26	13.4	13.2	13.3	13.5	13.4	13.5	13.6	13.5	13.6	---	---	---
27	13.5	13.2	13.3	13.5	13.4	13.5	13.7	13.5	13.6	---	---	---
28	13.4	13.2	13.3	13.5	13.4	13.5	13.6	13.4	13.6	---	---	---
29	---	---	---	13.5	13.4	13.5	13.5	13.4	13.5	---	---	---
30	---	---	---	13.5	13.4	13.5	13.5	13.4	13.5	---	---	---
31	---	---	---	13.5	13.4	13.5	---	---	---	---	---	---
MONTH	13.6	12.3	13.2	13.6	13.2	13.4	13.7	13.4	13.5	13.9	13.5	13.7

CUMBERLAND RIVER BASIN

03436421 BOILING SPRINGS AT FORT CAMPBELL, KY-TN--Continued

TEMPERATURE, WATER (DEG. C), 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	---	---	---	14.0	13.9	13.9	14.2	14.2	14.2	15.1	14.2	14.4
2	---	---	---	14.0	13.9	14.0	14.2	14.2	14.2	14.6	14.2	14.4
3	---	---	---	14.0	13.9	14.0	14.2	14.2	14.2	14.5	14.2	14.3
4	---	---	---	14.0	13.9	14.0	14.2	14.2	14.2	14.8	14.2	14.4
5	---	---	---	14.0	14.0	14.0	14.3	14.2	14.3	15.1	14.3	14.6
6	---	---	---	14.0	14.0	14.0	14.3	14.3	14.3	15.2	14.4	14.7
7	---	---	---	14.0	14.0	14.0	14.3	14.3	14.3	15.3	14.4	14.8
8	---	---	---	14.1	14.0	14.0	14.3	14.3	14.3	15.1	14.4	14.7
9	---	---	---	14.0	14.0	14.0	14.3	14.2	14.3	14.6	14.4	14.5
10	---	---	---	14.0	14.0	14.0	14.2	14.2	14.2	14.6	14.3	14.5
11	---	---	---	14.1	14.0	14.0	14.2	14.2	14.2	14.9	14.3	14.6
12	---	---	---	14.1	14.0	14.0	14.2	14.2	14.2	15.1	14.3	14.7
13	---	---	---	14.1	14.0	14.1	14.2	14.2	14.2	15.1	14.3	14.8
14	---	---	---	14.3	14.1	14.1	14.2	14.1	14.2	15.6	14.3	14.9
15	---	---	---	14.1	14.1	14.1	14.2	14.1	14.2	15.4	14.3	14.8
16	---	---	---	14.1	14.0	14.1	14.2	14.2	14.2	14.8	14.3	14.5
17	---	---	---	14.5	14.0	14.1	14.2	14.2	14.2	14.9	14.3	14.6
18	---	---	---	14.1	14.0	14.0	14.4	14.2	14.2	15.0	14.3	14.7
19	---	---	---	14.1	14.0	14.0	14.2	14.2	14.2	14.8	14.3	14.6
20	13.9	13.8	13.8	14.5	14.0	14.1	14.2	14.1	14.2	14.8	14.2	14.5
21	13.9	13.8	13.9	14.2	14.0	14.1	14.2	14.2	14.2	14.8	14.2	14.5
22	13.9	13.8	13.9	14.3	14.0	14.0	14.5	14.2	14.3	14.8	14.2	14.5
23	13.9	13.9	13.9	14.0	14.0	14.0	14.3	14.2	14.2	14.6	14.5	14.6
24	13.9	13.9	13.9	14.1	14.0	14.1	14.6	13.6	14.3	14.6	14.5	14.6
25	13.9	13.9	13.9	14.1	14.0	14.1	14.7	14.3	14.4	14.6	14.4	14.5
26	14.0	13.9	13.9	14.2	14.0	14.1	14.4	14.4	14.4	14.8	14.5	14.6
27	13.9	13.9	13.9	14.1	14.0	14.1	14.9	14.4	14.4	14.8	14.5	14.6
28	13.9	13.9	13.9	14.1	14.1	14.1	14.7	14.3	14.4	14.9	14.5	14.7
29	13.9	13.9	13.9	14.2	14.1	14.1	14.8	14.3	14.4	14.8	14.5	14.7
30	14.0	13.9	13.9	14.2	14.1	14.2	14.8	14.2	14.4	14.8	14.5	14.6
31	---	---	---	14.2	14.2	14.2	14.9	14.2	14.5	---	---	---
MONTH	14.0	13.8	13.9	14.5	13.9	14.1	14.9	13.6	14.3	15.6	14.2	14.6

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CUMBERLAND RIVER BASIN

03436426 LITTLE WEST FORK NEAR FORT CAMPBELL, KY-TN

LOCATION.--Lat 36°36'37", long 87°28'11", Montgomery County, Hydrologic Unit 05130206, on right downstream wingwall of Eastend Road bridge, 2.6 mi downstream from confluence of Piney Fork Creek and Noah Spring Branch, 3.0 mi northwest of Ringgold.

DRAINAGE AREA.--128 mi².

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

GAGE.--Data logger. Elevation of gage is 409.36 ft above sea level.

REMARKS.--Records good. Flow is effected by Ft. Campbell diverting an average of about 10.0 ft³/s from Boiling Spring for water supply above the gage. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Feb. 15	1230	*1,530	*10.78	No other peaks greater than base discharge.			

Minimum discharge, 6.0 ft³/s, Nov. 4, 5.

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	14	9.0	23	27	80	116	65	140	e94	e37	27	12
2	13	8.5	22	25	77	108	63	235	e118	36	26	13
3	12	8.7	21	24	71	102	61	137	e100	36	23	13
4	12	8.0	24	23	66	98	58	110	e85	e35	22	13
5	11	20	22	23	61	102	56	97	e75	e55	55	12
6	11	30	21	177	56	156	55	87	e90	e48	61	12
7	12	15	19	459	55	210	53	80	e420	e40	39	12
8	13	15	19	167	51	953	52	72	e255	35	50	11
9	32	16	19	114	49	495	50	107	e150	e32	61	12
10	22	18	341	93	48	318	47	89	e112	29	e122	12
11	19	16	351	93	46	254	46	77	e94	e26	76	11
12	20	16	129	120	44	217	49	69	e86	e23	e61	11
13	50	15	95	101	41	192	43	66	e80	26	e47	11
14	14	14	80	553	43	175	41	99	e76	25	e42	10
15	13	12	71	481	1060	160	41	240	e73	28	e37	10
16	12	13	67	297	1110	149	40	173	e70	23	e33	13
17	9.8	12	64	205	731	136	38	172	e65	22	28	13
18	11	11	61	169	431	126	38	516	e62	22	27	11
19	18	12	55	883	325	120	36	793	e58	21	26	11
20	13	12	51	559	266	115	51	331	e68	20	25	10
21	12	15	49	307	230	110	93	230	e56	19	25	9.5
22	15	12	46	222	201	108	81	188	e52	24	22	9.9
23	13	11	42	184	185	101	69	161	e63	27	22	10
24	11	11	39	156	166	93	86	e125	e72	34	20	10
25	12	11	37	138	151	86	75	e110	58	54	18	9.5
26	10	11	35	123	143	83	63	e140	52	37	17	10
27	8.6	31	32	114	134	81	56	e135	48	35	16	9.5
28	8.8	38	30	109	126	75	50	e112	44	33	14	9.2
29	9.4	24	29	100	---	71	48	e100	41	35	14	9.2
30	8.2	24	28	91	---	68	50	e90	e40	31	13	9.4
31	8.6	---	27	84	---	66	---	e82	---	29	12	---
TOTAL	448.4	469.2	1949	6221	6047	5244	1654	5163	2757	977	1081	329.2
MEAN	14.5	15.6	62.9	201	216	169	55.1	167	91.9	31.5	34.9	11.0
MAX	50	38	351	883	1110	953	93	793	420	55	122	13
MIN	8.2	8.0	19	23	41	66	36	66	40	19	12	9.2
CFSM	.11	.12	.50	1.58	1.70	1.33	.43	1.31	.72	.25	.27	.09
IN.	.13	.14	.57	1.82	1.77	1.54	.48	1.51	.81	.29	.32	.10

e Estimated

CUMBERLAND RIVER BASIN

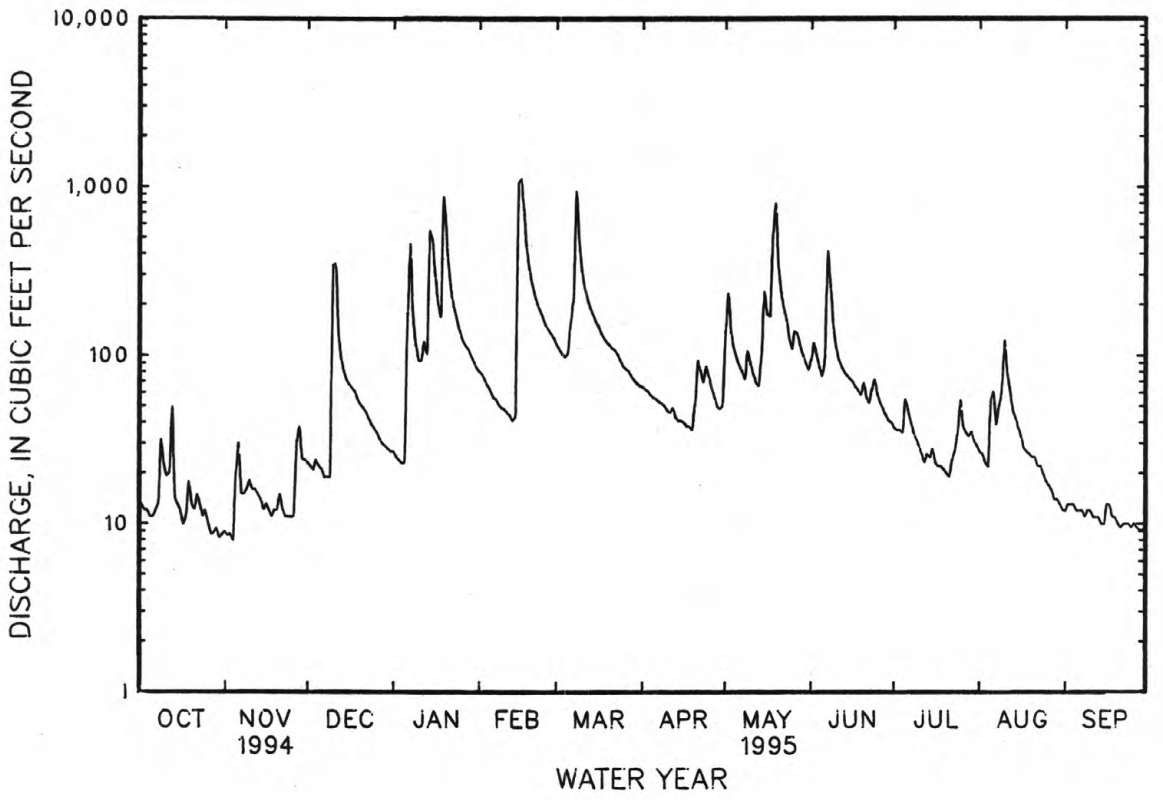
03436426 LITTLE WEST FORK NEAR FORT CAMPBELL, KY-TN--Continued

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

MEAN	12.5	25.9	108	246	455	404	272	143	83.7	36.0	22.6	12.7
MAX	14.5	36.2	152	292	695	640	490	167	91.9	40.5	34.9	16.3
(WY)	1995	1994	1994	1994	1994	1994	1994	1995	1995	1994	1995	1994
MIN	10.6	15.6	62.9	201	216	169	55.1	119	75.4	31.5	12.0	10.8
(WY)	1994	1995	1995	1995	1995	1995	1995	1994	1994	1995	1993	1993

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1993 - 1995	
ANNUAL TOTAL	74223.6		32339.8			
ANNUAL MEAN	203		88.6		150	
HIGHEST ANNUAL MEAN					212	1994
LOWEST ANNUAL MEAN					88.6	1995
HIGHEST DAILY MEAN	3060	Mar 27	1110	Feb 16	3060	Mar 27 1994
LOWEST DAILY MEAN	8.0	Nov 4	8.0	Nov 4	7.5	Sep 22 1993
ANNUAL SEVEN-DAY MINIMUM	8.6	Oct 29	8.6	Oct 29	8.0	Sep 7 1993
INSTANTANEOUS PEAK FLOW			1530	Feb 15	4680	Mar 7 1994
INSTANTANEOUS PEAK STAGE			10.78	Feb 15	16.55	Mar 7 1994
INSTANTANEOUS LOW FLOW			a6.0	Nov 4	a6.0	Nov 4 1994
ANNUAL RUNOFF (CFSM)	1.60		.70		1.18	
ANNUAL RUNOFF (INCHES)	21.74		9.47		16.10	
10 PERCENT EXCEEDS	535		184		333	
50 PERCENT EXCEEDS	50		48		48	
90 PERCENT EXCEEDS	13		11		11	

a Also occurred Nov. 5.



CUMBERLAND RIVER BASIN

RESERVOIRS IN CUMBERLAND RIVER BASIN

03413500 LAKE CUMBERLAND.--Lat 36°52'09", long 85°08'45", Russell County, KY, Hydrologic Unit 05130103, in pylon of Wolf Creek Dam on Cumberland River and 10 mi southwest of Jamestown, Ky. DRAINAGE AREA, 5,789 mi². PERIOD OF RECORD, April 1950 to current year. Prior to October 1954, published as Wolf Creek Reservoir. April to June 1950, published in WSP 1726. GAGE, water-stage recorder. Datum of gage is Sandy Hook datum. Prior to Dec. 6, 1950, nonrecording gage at same site at datum 545.0 ft higher.

REVISIONS.--WSP 1556: Drainage area.

REMARKS.--Reservoir is formed by earth embankment and concrete gravity dam surmounted by 10 taintor gates, each 37 ft high by 50 ft wide. Final closure of dam made Aug. 7, 1950. Total capacity at elevation 760.00 ft top of gates, is 3,070,000 cfs-days, of which 1,056,000 cfs-days above elevation 723.00 ft, crest of spillway, are reserved for flood control and 1,080,000 cfs-days between elevation 673.00 ft, minimum power pool, and 723.00 ft are used for power production. Figures given herein represent total contents, of which 934,000 cfs-days below elevation 673.00 ft is dead storage. Reservoir is used for flood control, power, navigation, and recreation.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,811,000 cfs-days, May 13, 1984, elevation, 751.70 ft; minimum, after first filling, 934,400 cfs-days, Jan. 1, 1956, elevation, 673.01 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,203,100 cfs-days, May 20, elevation, 730.30 ft; minimum, 1,141,700 cfs-days, Jan. 8, elevation, 684.04 ft.

03416500 DALE HOLLOW LAKE.--Lat 36°32'19", long 85°27'05", Clay County, Hydrologic Unit 05130105, at Dale Hollow Dam on Obey River, 3.0 mi east of Celina, and 7.3 mi upstream from mouth. DRAINAGE AREA, 936 mi². PERIOD OF RECORD, August 1943 to current year. Prior to October 1965, published as Dale Hollow Reservoir. GAGE, water-stage recorder. Datum of gage is Sandy Hook datum. Prior to June 25, 1946, nonrecording gage at same site and datum.

REVISIONS.--WSP 1306: 1944. WSP 2110: Drainage area.

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway is equipped with six taintor gates, each 12 ft high by 60 ft wide. Closure of dam was made Aug. 30, 1943; water in reservoir first reached minimum pool elevation May 7, 1944. Revised capacity table used after Sept. 30, 1970. Total capacity at elevation 663.0 ft, top of gates, is 859,800 cfs-days of which 177,500 cfs-days between elevations 663.00 ft and 651.00 ft, crest of spillway, are reserved for flood control, and 250,200 cfs-days between elevations 651.00 ft and 631.00 ft, ordinary minimum pool, are used for power production. Contents of 432,100 cfs-days below elevation 631.00 ft is dead storage. Reservoir is used for flood control, navigation, and power.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 828,600 cfs-days, Mar. 15, 1975, elevation, 660.98 ft; minimum, after first filling, 428,000 cfs-days, Sept. 11, 1944, elevation, 630.63 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 685,200 cfs-days, June 13, elevation, 651.21 ft; minimum, 488,400 cfs-days, Jan. 1, elevation, 635.93 ft.

03418400 CORDELL HULL RESERVOIR.--Lat 36°17'23", long 85°56'39", Smith County, Hydrologic Unit 05130108, at Cordell Hull Dam on Cumberland River, 2.7 mi north of Carthage, and at mile 313.5. DRAINAGE AREA, 8,095 mi². PERIOD OF RECORD, October 1972 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete gravity dam with earth embankment. Spillway is equipped with five taintor gates, each 41 ft high and 45 ft wide. Closure of dam was made Oct. 4, 1967; water in reservoir first reached ordinary minimum pool Mar. 13, 1973. Total capacity at elevation 508.0 ft, maximum surcharge pool, is 156,700 cfs-days, of which 53,400 cfs-days is controlled storage between elevations 508.0 ft and 499.0 ft, ordinary minimum pool. Contents of 5,000 cfs-days between elevation of 499.0 ft and 500.0 ft full winter pool, is available for power production. Contents of 48,400 cfs-days above 500.0 ft is available for flood control during the winter, and 26,100 cfs-days above 504.0 ft, full pool during spring to fall season, is available for flood control the rest of the year. Contents of 103,300 cfs-days below elevation 499.0 ft is dead storage. Reservoir is used for navigation, power, and flood control.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 156,700 cfs-days, Mar. 13, 1975, May 8, 1984, elevation, 508.00 ft; minimum, after first filling to ordinary minimum pool, 96,700 cfs-days, Apr. 18, 1974, elevation, 497.65 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 135,300 cfs-days, Aug. 17, elevation, 504.76 ft; minimum, 103,900 cfs-days, Jan. 24, elevation, 499.12 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	03413500 LAKE CUMBERLAND			03416500 DALE HOLLOW LAKE			03418400 CORDELL HULL RESERVOIR		
Sept. 30...	700.01	1,472,100	-	639.75	534,400	-	504.27	132,300	-
Oct. 31...	695.87	1,382,800	-89,300	638.65	520,900	-13,500	501.60	116,800	-15,500
Nov. 30...	689.78	1,256,300	-126,500	637.01	501,200	+19,700	500.48	110,800	-6,000
Dec. 31...	685.42	1,168,800	-87,500	635.94	488,500	-12,700	500.38	110,300	-500
CAL YR 1994	-	-	-401,700	-	-	-58,600	-	-	-3,100
Jan. 31...	702.38	1,524,300	+355,500	641.09	551,000	+62,500	500.10	108,800	-1,500
Feb. 28...	709.00	1,674,500	+150,200	643.81	585,600	+34,600	499.77	107,100	-1,700
Mar. 31...	713.24	1,774,100	+99,600	646.08	615,300	+29,700	500.83	112,700	+5,600
Apr. 30...	714.70	1,809,000	+34,900	645.56	608,500	-6,800	504.00	130,600	+17,900
May 31...	724.72	2,057,700	+248,700	650.84	680,100	+71,600	504.19	131,800	+1,200
June 30...	721.34	1,972,000	-85,700	650.08	669,500	-10,600	504.40	133,100	+1,300
July 31...	712.44	1,755,100	-216,900	645.60	609,000	-60,500	504.09	131,200	-1,900
Aug. 31...	703.44	1,547,100	-208,000	640.74	546,700	-62,300	504.17	131,700	+500
Sept. 30...	696.34	1,392,800	-154,300	637.76	510,100	-36,600	504.29	132,400	+700
WTR YR 1995	-	-	-79,300	-	-	-24,300	-	-	+100

CUMBERLAND RIVER BASIN

RESERVOIRS IN CUMBERLAND RIVER BASIN--Continued

03422000 GREAT FALLS LAKE.--Lat 35°48'21", long 85°38'09", Warren County, Hydrologic Unit 05130108, at pen-stock inlet on Collins River, 700 ft southwest of powerhouse of Tennessee Valley Authority, 1.5 mi northwest of Rock Island, 1.8 mi upstream from mouth of Collins River, and 2.0 mi upstream from Great Falls Dam on Caney Fork. DRAINAGE AREA, 1,677 mi². PERIOD OF RECORD, January 1917 to current year. GAGE, remote indicator gage. Datum of gage is sea level.

REVISIONS.--WSP 2110: Drainage area.

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway is equipped with 18 taintor gates, each 14 ft high by 25 ft wide. Closure of dam was made in 1916; dam redesigned and crest raised 35 ft in 1925. Revised capacity table used after Sept. 30, 1970. Total capacity at elevation 805.3 ft top of gates, is 25,900 cfs-days, of which 18,700 cfs-days are controlled storage above elevation 780.0 ft, normal minimum pool. Contents of 1,500 cfs-days below elevation 762.0 ft is dead storage. Reservoir is used primarily for power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum midnight elevation, 817.48 ft, Mar. 23, 1929, contents not determined; minimum midnight contents, 1,700 cfs-days, Aug. 19, 1918, elevation, 756.3 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 27,100 cfs-days, Nov. 28, elevation, 806.41 ft; minimum, 13,100 cfs-days, Nov. 11, elevation, 790.22 ft.

03424000 CENTER HILL LAKE.--Lat 36°05'48", long 85°49'38", DeKalb County, Hydrologic Unit 05130108, at Center Hill Dam on Caney Fork, 10 mi north of Smithville, 14 mi southeast of Carthage, and at mile 26.6. DRAINAGE AREA, 2,174 mi². PERIOD OF RECORD, October 1948 to current year. Prior to October 1965, published as Center Hill Reservoir. GAGE, water-stage recorder. Datum of gage is Sandy Hook datum. Prior to Mar. 14, 1949, nonrecording gage at site 1,320 ft upstream at same datum.

REVISIONS.--WSP 1910: Drainage area.

REMARKS.--Reservoir is formed by earth embankment and concrete gravity dam. Spillway is equipped with eight taintor gates, each 37 ft high by 50 ft wide. Closure of dam was made Nov. 27, 1948; water in reservoir first reached minimum pool elevation Jan. 11, 1949. Revised capacity table used after Sept. 30, 1970. Total capacity at elevation 685.0 ft, top of gates, is 1,054,800 cfs-days, of which 384,500 cfs-days between 685.0 ft and 648.0 ft, crest of spillway, are reserved for flood control, and 248,000 cfs-days between elevations 648.0 ft and 618.0 ft, ordinary minimum pool, are used for power production. Contents of 422,300 cfs-days below 618.0 ft is dead storage. Reservoir is used for flood control, navigation, and power.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,014,600 cfs-days, May 10, 1984, elevation, 681.52 ft; minimum, after first filling, 171,000 cfs-days, Dec. 1, 2, 1949, elevation, 576.1 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 687,800 cfs-days, May 15, elevation, 649.89 ft; minimum, 459,600 cfs-days, Dec. 23, elevation, 622.96 ft.

03426300 OLD HICKORY LAKE.--Lat 36°17'50", long 86°39'20", Sumner County, Hydrologic Unit 05130201, at Old Hickory Dam on Cumberland River, 2.0 mi west of Hendersonville, 10 mi northeast of the State Capitol in Nashville, and at mile 216.2. DRAINAGE AREA, 11,673 mi². PERIOD OF RECORD, June 1954 to current year. GAGE, water-stage recorder. Datum of gage is sea level; gage readings have been reduced to elevations NGVD. Prior to Apr. 4, 1957, nonrecording gage at same site and datum.

REVISIONS.--WSP 2110: Drainage area.

REMARKS.--Reservoir is formed by concrete gravity dam with earth embankment. Spillway is equipped with six taintor gates, each 41 ft high and 45 ft wide. Closure of dam was made in June 1954 and water in reservoir was raised sufficiently to maintain navigation through the lock. Water in reservoir first reached ordinary minimum pool elevation Dec. 30, 1956. Revised capacity table used after Sept. 30, 1970. Total capacity at elevation 450.0 ft, maximum surcharge pool, 274,600 cfs-days of which 63,000 cfs-days between elevations 450.0 ft and 445.0 ft, normal pool, are induced surcharge storage provided to compensate for loss of natural valley storage incurred by construction of the project, and 31,800 cfs-days between elevations 445.0 ft and 442.0 ft, ordinary minimum pool, are used for power production. Contents of 179,800 cfs-days below elevation 442.0 ft, is dead storage. Reservoir is used for navigation and power.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 277,200 cfs-days, May 9, 1984, elevation, 450.18 ft; minimum, after first filling to ordinary minimum pool, 179,400 cfs-days, Oct. 22, 1957, Oct. 28, 1969, elevation, 441.96 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 224,800 cfs-days, Mar. 8, elevation, 446.13 ft; minimum, 186,000 cfs-days, Oct. 27, elevation, 442.62 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	03422000 GREAT FALLS LAKE			03424000 CENTER HILL LAKE			03426300 OLD HICKORY LAKE		
Sept. 30...	799.53	20,100	-	630.43	518,400	-	444.65	207,700	-
Oct. 31...	792.05	14,400	-5,700	627.42	494,300	-24,100	443.77	198,000	-9,700
Nov. 30...	805.75	26,400	+12,000	626.76	489,100	-5,200	444.81	209,500	+11,500
Dec. 31...	791.77	14,200	-12,200	623.34	462,500	-26,600	444.75	208,800	-700
CAL YEAR 1994	-	-	-10,700	-	-	-95,500	-	-	-1,200
Jan. 31...	804.58	25,100	+10,900	627.27	493,100	+30,600	444.68	208,000	-800
Feb. 28...	796.75	18,000	-7,100	631.07	523,600	+30,500	444.61	207,200	-800
Mar. 31...	795.20	16,700	-1,300	640.11	599,800	+76,200	444.75	208,800	+1,600
Apr. 30...	799.90	20,700	+4,000	644.02	634,200	+34,400	444.41	205,000	-3,800
May 31...	793.61	15,500	-5,200	647.69	667,400	+33,200	444.29	203,700	-1,300
June 30...	794.19	16,000	+500	646.60	657,500	-9,900	444.97	211,300	+7,600
July 31...	801.27	21,900	+5,900	641.22	609,400	-48,100	444.55	206,600	-4,700
Aug. 31...	799.65	20,500	-1,400	635.35	559,000	-50,400	444.67	207,900	+1,300
Sept. 30...	798.78	19,700	-800	630.91	522,300	-36,700	444.75	208,800	+900
WTR YR 1995	-	-	-400	-	-	-3,900	-	-	+1,100

CUMBERLAND RIVER BASIN

RESERVOIRS IN CUMBERLAND RIVER BASIN--CONTINUED

03430050 J. PERCY PRIEST RESERVOIR.--Lat 36°09'23", long 86°37'07", Davidson County, Hydrologic Unit 05130203, on upstream face of J. Percy Priest Dam on Stones River, 2.6 mi east of Donelson, and 6.8 mi above mouth. DRAINAGE AREA, 892 mi². PERIOD OF RECORD, September 1967 to current year. GAGE, water-stage recorder. Datum of gage is sea level. Prior to Dec. 15, 1967, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by concrete gravity dam with earth embankments. Spillway is equipped with four taintor gates, each 41 ft high by 45 ft wide. Closure of dam was made Sept. 18, 1967; water in reservoir first reached ordinary minimum pool May 15, 1968. Revised capacity table used after Sept. 30, 1970. Total capacity at elevation 504.5 ft, maximum controlled pool, is 328,700 cfs-days of which 193,600 cfs-days is controlled storage between elevations 504.5 ft and 480.0 ft, ordinary minimum pool. Contents of 17,200 cfs-days between elevations 480.0 ft and 483.0 ft, full winter pool, is available for power production. Contents of 176,400 cfs-days above 483.0 ft is available for flood control during the winter, and 131,100 cfs-days above 490.0 ft, full pool during spring-to-fall season, is available for flood control the rest of the year. Contents of 135,100 cfs-days below elevation 480.0 ft is dead storage. Reservoir is used for flood control, power, recreation, and wildlife.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 336,600 cfs-days, May 9, 1984, elevation, 505.18 ft; minimum, after first filling to ordinary minimum pool, 109,500 cfs-days, Dec. 5, 1968, elevation, 474.75 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 227,200 cfs-days, May 17, elevation, 493.92 ft; minimum, 145,200 cfs-days, Dec. 22, elevation, 481.80 ft.

03434900 CHEATHAM LAKE.--Lat 36°18'56", long 87°13'10", Cheatham County, Hydrologic Unit 05130202, at Cheatham Dam on Cumberland River, 9.4 mi west of Ashland City, 16 mi southeast of the courthouse in Clarksville, and at mile 148.7. DRAINAGE AREA, 14,159 mi².

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway is equipped with seven semi-submersible taintor gates, each 27 ft high by 60 ft wide. Total capacity at elevation 385.0 ft, normal pool, is 52,200 cfs-days, of which 9,800 cfs-days are controlled storage. Records of contents not published herein.

03438210 LAKE BARKLEY.--Lat 37°01'17", long 88°13'16", Lyon County, KY, Hydrologic Unit 05130205, in powerhouse of Barkley Dam on Cumberland River, 1.4 mi northeast of Grand Rivers, KY, and at mile 30.6. DRAINAGE AREA, 17,598 mi². PERIOD OF RECORD, July 1964 to current year. GAGE, water-stage recorder. Datum of gage is sea level, (levels by U.S. Army Corps of Engineers). Prior to Jan. 1, 1966, nonrecording gage, 1,200 ft upstream from Barkley Dam at same datum.

REMARKS.--Reservoir is formed by concrete gravity dam with earth embankments. Spillway is equipped with 12 taintor gates, each 50 ft high by 55 ft wide. Construction cofferdam was closed and limited storage began July 1, 1964; reservoir reached ordinary minimum pool elevation of 354.0 ft Feb. 16, 1966. Total level pool capacity at elevation 375.0 ft, top of gates, is 1,049,600 cfs-days, of which 742,000 cfs-days is controlled storage above 354.0 ft, ordinary minimum pool. Contents of 130,500 cfs-days between ordinary minimum pool elevation, 354.0 ft, and full pool elevation, 359.0 ft, is available for power during the spring-to-fall season. Minimum pool elevation in advance of floods is 346.0 ft, contents 171,000 cfs-days. Reservoir is used for navigation, flood control, power, and recreation. Barkley-Kentucky Canal opened June 13, 1966, for navigation and power use. Canal is 1.75 mi long and interconnects Lake Barkley and Kentucky Lake at a point 2.2 mi upstream from Barkley Dam. For daily discharges through the canal, see station 03438190, Kentucky reports.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 370.04 ft, May 13, 1984; minimum after reaching permanent pool elevation, 353.20 ft, Dec. 20, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 555,600 cfs-days, May 30, elevation, 362.75 ft; minimum contents, 293,000 cfs-days, Feb. 28, minimum elevation, 353.34 ft. Contents based on backwater profile.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	03430050 J. PERCY PRIEST LAKE			*03438210 LAKE BARKLEY		
Sept. 30.....	490.11	198,400	-	355.90	353,300	-
Oct. 31.....	486.50	173,800	-24,600	354.81	326,400	-26,900
Nov. 30.....	486.26	172,300	-1,500	355.70	348,200	+21,800
Dec. 31.....	482.43	148,900	-23,400	354.50	319,100	-29,100
CAL YR 1994	-	-	-8,900	-	-	+18,800
Jan. 31.....	483.30	154,000	+5,100	353.76	302,200	-16,900
Feb. 28.....	482.44	149,100	-4,900	353.50	296,500	-5,700
Mar. 31.....	485.55	167,800	+18,700	354.78	325,700	+29,200
Apr. 30.....	490.20	199,100	+31,300	359.05	439,500	+113,800
May 31.....	490.15	198,700	-400	362.46	546,000	+106,500
June 30.....	490.35	200,200	+1,500	359.07	440,100	-105,900
July 31.....	490.28	199,700	-500	359.15	442,400	+2,300
Aug. 31.....	489.93	197,100	-2,600	357.42	393,400	-49,000
Sept. 30.....	490.20	199,100	+2,000	355.44	341,800	-51,600
WTR YR 1995	-	-	+700	-	-	-11,500

* Contents based on backwater profile.

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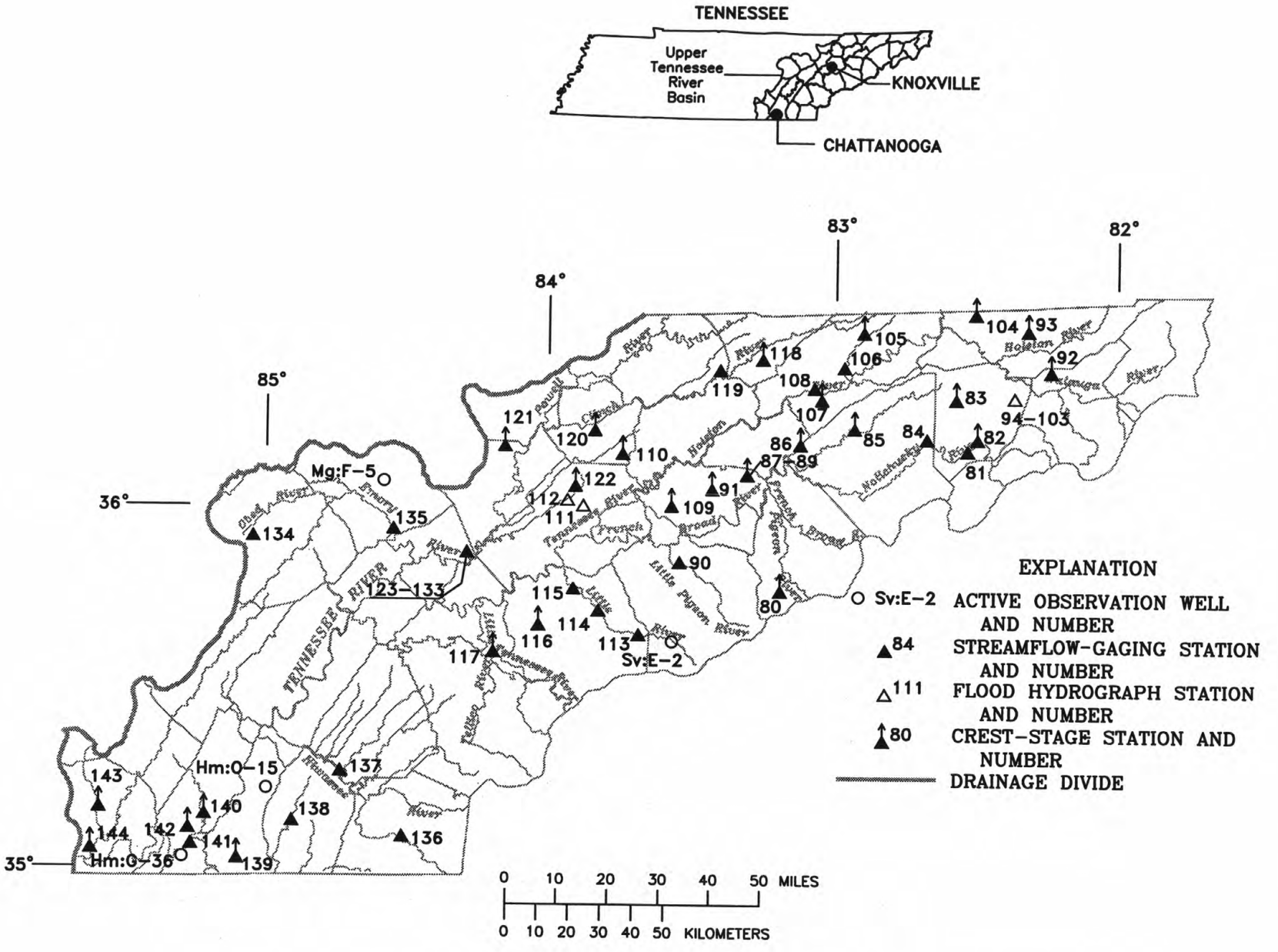


Figure 5.--Location of gaging sites in the upper Tennessee River Basin.

TENNESSEE RIVER BASIN

03465500 NOLICHUCKY RIVER AT EMBREEVILLE, TN

LOCATION.--Lat 36°10'35", long 82°27'27", Washington County, Hydrologic Unit 06010108, on left bank, at Embreeville, 1,000 ft upstream from bridge on State Highway 81, 3 mi northwest of Erwin, 5.2 mi downstream from North Indian Creek, and at mile 89.0.

DRAINAGE AREA.--805 mi².

PERIOD OF RECORD.--September 1900 to May 1901 (published as "near Chucky Valley"), October 1919 to current year. Monthly discharge only October 1919 to June 1920, published in WSP 1306.

REVISED RECORDS.--WSP 803: 1935(M). WSP 823: Drainage area. WSP 1336: 1921-24, 1931(M).

GAGE.--Water-stage recorder. Datum of gage is 1,519.30 ft above sea level. Sept. 1, 1900 to May 21, 1901, nonrecording gage at site 3 mi downstream at different datum, destroyed by flood of May 21, 1901. July 1, 1920 to Sept. 30, 1931, nonrecording gage at bridge 2,000 ft downstream at datum 6.33 ft lower.

REMARKS.--Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 21, 1901, reached a stage of 24 ft, discharge, 120,000 ft³/s, present site and datum, from reports of Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Jan. 15	0330	*64,000	*15.53	Mar. 8	2230	18,100	7.02
Feb. 16	2145	15,200	6.39	Aug. 27	2030	11,600	5.54

Minimum discharge, 523 ft³/s, Jan. 5, 6.

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	545	695	1010	818	1550	3300	1260	828	1160	3390	834	960
2	542	699	904	821	1570	3380	1250	1420	2130	2920	733	934
3	548	652	839	720	1900	2850	1210	1450	4270	2140	599	792
4	595	630	812	677	3330	2690	1170	1110	1960	1770	691	710
5	571	618	1680	592	2850	e2400	1150	1030	1510	1530	742	661
6	534	614	1740	562	2100	2210	e1120	971	1520	1340	629	619
7	531	607	1300	1940	1840	2100	e1080	901	2790	1300	1420	604
8	531	582	1140	1550	1790	6880	e1030	854	1750	1140	1760	592
9	543	575	1030	1170	1440	10100	995	831	1420	1040	1150	582
10	747	600	1010	1050	1580	5000	996	1230	1570	973	900	572
11	711	699	1760	984	1540	3870	1020	1400	1470	925	886	647
12	571	670	1580	1380	1430	3330	1050	1210	2440	915	998	743
13	680	596	1290	1560	1280	2950	1090	1090	2740	820	915	643
14	3840	578	1170	16100	1260	2680	1000	3740	1870	791	694	e800
15	2630	568	1080	40500	1790	2450	992	4330	1490	796	612	e700
16	1450	562	1010	12500	9360	2130	892	2860	1360	837	588	e620
17	1100	558	976	6750	10100	2010	936	2180	1420	1060	583	e850
18	949	558	933	4660	5670	1920	e1000	1880	1340	883	570	e1100
19	870	561	874	3670	4360	1840	e900	2390	1230	750	546	775
20	864	560	822	4000	3480	1800	e820	2370	2580	673	616	663
21	818	562	788	3190	3080	2200	848	1910	2600	683	991	620
22	760	933	779	2670	2620	2090	871	1670	2250	678	809	e600
23	1120	715	864	2360	2370	1880	e900	1510	2440	636	679	e1300
24	1190	615	832	2130	2210	1760	e1400	1410	2090	597	580	e900
25	912	583	766	1910	2050	1620	e1200	1310	2360	560	567	e720
26	846	577	733	1810	1790	1550	996	1230	3100	561	551	693
27	798	842	712	1690	1700	1540	912	1250	2710	676	6580	654
28	744	1600	698	1690	2140	1540	873	1320	2050	604	4900	608
29	715	1670	686	1810	---	1310	837	1340	1780	606	1990	580
30	699	1210	666	1730	---	1270	805	1310	2030	658	1370	572
31	689	---	653	1630	---	1260	---	1190	---	691	1100	---
TOTAL	28643	21489	31137	124624	78180	83910	30603	49525	61430	32943	36583	21814
MEAN	924	716	1004	4020	2792	2707	1020	1598	2048	1063	1180	727
MAX	3840	1670	1760	40500	10100	10100	1400	4330	4270	3390	6580	1300
MIN	531	558	653	562	1260	1260	805	828	1160	560	546	572
CFSM	1.15	.89	1.25	4.99	3.47	3.36	1.27	1.98	2.54	1.32	1.47	.90
IN.	1.32	.99	1.44	5.76	3.61	3.88	1.41	2.29	2.84	1.52	1.69	1.01

e Estimated

TENNESSEE RIVER BASIN

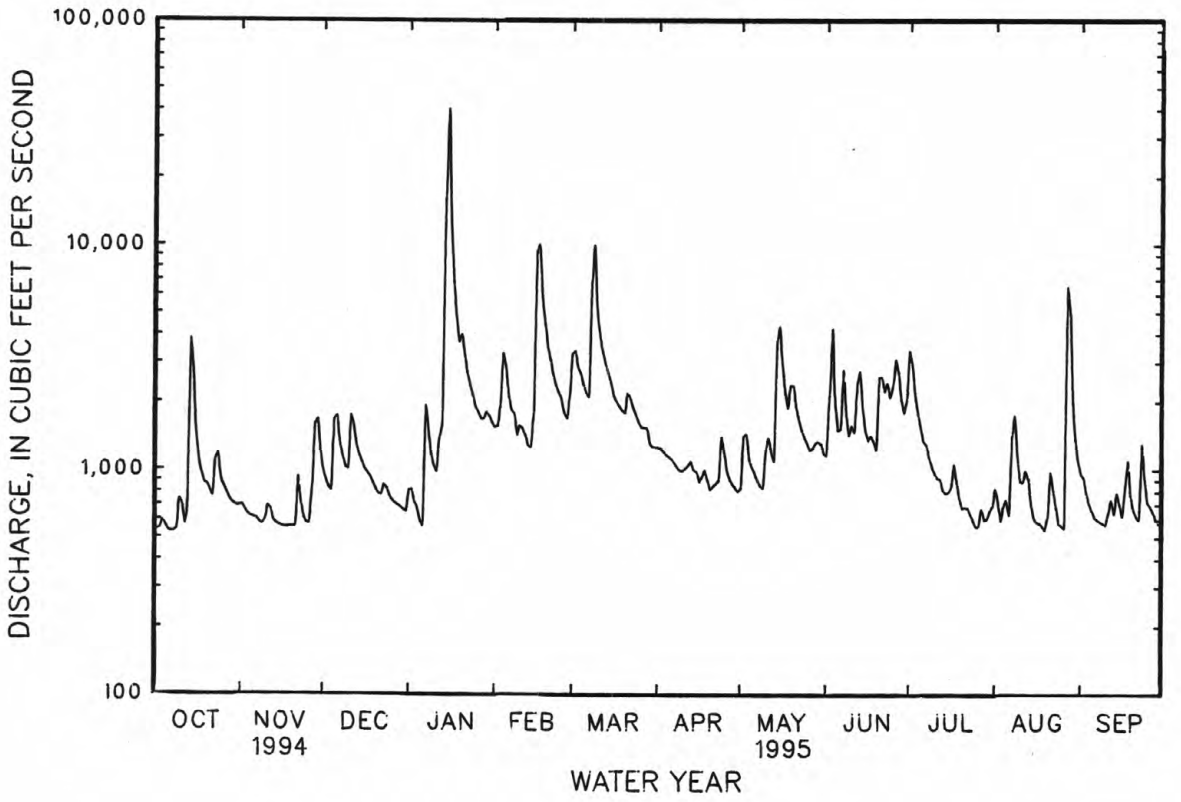
03465500 NOLICHUCKY RIVER AT EMBREEVILLE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 1995, BY WATER YEAR (WY)

MEAN	818	1022	1303	1683	2039	2347	2014	1575	1131	942	927	777
MAX	2630	4720	3073	4020	4494	5102	4169	3171	3196	2525	4876	2648
(WY)	1930	1978	1962	1995	1957	1963	1983	1984	1992	1949	1940	1928
MIN	246	294	353	382	635	649	699	597	376	351	182	187
(WY)	1954	1940	1940	1940	1941	1988	1986	1941	1988	1988	1925	1925

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1920 - 1995	
ANNUAL TOTAL	660080		600881			
ANNUAL MEAN	1808		1646		1377	
HIGHEST ANNUAL MEAN					1948	1974
LOWEST ANNUAL MEAN					694	1988
HIGHEST DAILY MEAN	27100	Mar 28	40500	Jan 15	50800	Nov 6 1977
LOWEST DAILY MEAN	531	Oct 7	531	Oct 7	88	Sep 8 1925
ANNUAL SEVEN-DAY MINIMUM	550	Oct 2	550	Oct 2	121	Sep 3 1925
INSTANTANEOUS PEAK FLOW			a64000	Jan 15	a110000	Nov 6 1977
INSTANTANEOUS PEAK STAGE			15.53	Jan 15	21.52	Nov 6 1977
INSTANTANEOUS LOW FLOW			b523	Jan 5	c85	Sep 8 1925
ANNUAL RUNOFF (CFSM)	2.25		2.05		1.71	
ANNUAL RUNOFF (INCHES)	30.50		27.77		23.24	
10 PERCENT EXCEEDS	3450		2760		2570	
50 PERCENT EXCEEDS	1180		1080		1000	
90 PERCENT EXCEEDS	660		592		405	

a From rating curve extended above 48,000 ft³/s on basis of contracted opening and slope-area measurements of peak flow.
b Also occurred on Jan. 6 due to unknown regulation.
c Also occurred on Sept. 9, 1925.



TENNESSEE RIVER BASIN

03465830 MUDDY FORK NEAR LEESBURG, TN

LOCATION.--Lat 36°17'59", long 82°33'36", Washington County, Hydrologic Unit 06010108, on right bank 35 ft downstream of county road, 0.1 mi upstream of Leesburg Branch, 1.1 mi northwest of Leesburg.

DRAINAGE AREA.--13.5 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1994 to April 1995 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1420 ft above sea level, from topographic map.

REMARKS.--Records poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 389 ft^3/s, Mar. 27, 1994, gage height 5.61 ft.

EXTREMES FOR PERIOD OF RECORD.--March 1994 to April 1995: Maximum discharge, 360 ft^3/s, Mar. 8, 1995, gage height, 5.46 ft; minimum, 3.5 ft^3/s, Nov. 20, 1994.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR MARCH 1994 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	e50	83	24	10	13	6.8	12
2	---	---	---	---	---	e60	69	22	11	12	7.1	9.7
3	---	---	---	---	---	e55	62	24	9.8	11	6.9	8.4
4	---	---	---	---	---	e50	55	25	9.5	11	6.5	7.6
5	---	---	---	---	---	e45	48	21	9.2	11	11	7.4
6	---	---	---	---	---	e40	57	20	9.1	9.8	8.2	7.4
7	---	---	---	---	---	e35	47	19	12	9.5	7.1	7.1
8	---	---	---	---	---	e40	41	19	16	9.6	7.0	6.7
9	---	---	---	---	---	e50	38	18	10	9.5	6.7	6.6
10	---	---	---	---	---	e45	44	17	48	9.1	6.4	6.4
11	---	---	---	---	---	42	97	16	13	9.0	6.2	6.2
12	---	---	---	---	---	39	67	16	12	8.9	6.1	6.0
13	---	---	---	---	---	37	131	15	12	8.9	5.9	5.9
14	---	---	---	---	---	36	70	14	13	8.9	5.9	5.8
15	---	---	---	---	---	34	67	14	11	8.5	6.0	5.7
16	---	---	---	---	---	32	140	14	10	8.5	6.4	5.6
17	---	---	---	---	---	31	67	13	16	8.5	16	5.6
18	---	---	---	---	---	30	56	12	10	8.6	11	6.1
19	---	---	---	---	---	29	49	12	9.7	10	9.1	5.7
20	---	---	---	---	---	28	44	12	9.8	10	8.5	5.4
21	---	---	---	---	---	27	40	12	19	9.9	14	5.4
22	---	---	---	---	---	26	38	12	13	8.0	11	5.3
23	---	---	---	---	---	25	35	11	11	7.8	9.6	5.2
24	---	---	---	---	---	24	33	11	10	6.8	9.0	5.2
25	---	---	---	---	---	26	30	11	9.7	6.6	8.7	5.2
26	---	---	---	---	---	24	28	15	9.4	7.3	8.5	5.4
27	---	---	---	---	---	152	27	14	48	9.9	8.2	5.1
28	---	---	---	---	---	265	25	12	19	8.6	8.1	5.0
29	---	---	---	---	---	217	24	11	17	8.3	7.9	4.8
30	---	---	---	---	---	133	26	11	14	7.2	7.7	4.7
31	---	---	---	---	---	111	---	10	---	6.9	7.3	---
TOTAL	---	---	---	---	---	1838	1638	477	431.2	282.6	254.8	188.6
MEAN	---	---	---	---	---	59.3	54.6	15.4	14.4	9.12	8.22	6.29
MAX	---	---	---	---	---	265	140	25	48	13	16	12
MIN	---	---	---	---	---	24	24	10	9.1	6.6	5.9	4.7
CFSM	---	---	---	---	---	4.39	4.04	1.14	1.06	.68	.61	.47
IN.	---	---	---	---	---	5.06	4.51	1.31	1.19	.78	.70	.52

e Estimated

TENNESSEE RIVER BASIN

03465830 MUDDY FORK NEAR LEESBURG, TN--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO APRIL 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	3.9	5.1	4.4	15	32	19	---	---	---	---	---
2	4.5	3.9	5.1	4.3	16	26	18	---	---	---	---	---
3	4.6	3.8	5.0	4.2	17	25	17	---	---	---	---	---
4	4.5	3.8	5.3	4.1	52	25	17	---	---	---	---	---
5	4.3	3.7	7.3	4.0	25	24	16	---	---	---	---	---
6	4.2	3.9	6.7	4.7	20	24	15	---	---	---	---	---
7	4.0	3.8	6.0	10	19	22	15	---	---	---	---	---
8	4.0	3.7	5.6	7.4	17	186	14	---	---	---	---	---
9	4.2	3.7	5.4	6.7	15	102	13	---	---	---	---	---
10	4.2	e4.5	5.7	6.3	15	71	13	---	---	---	---	---
11	4.0	e5.0	9.0	6.5	14	62	12	---	---	---	---	---
12	3.9	e4.3	7.1	11	13	54	12	---	---	---	---	---
13	4.4	e4.0	6.5	8.5	13	48	11	---	---	---	---	---
14	4.6	e3.8	6.2	57	12	44	11	---	---	---	---	---
15	4.3	e3.7	5.9	125	19	40	11	---	---	---	---	---
16	4.0	e3.7	5.8	65	210	37	10	---	---	---	---	---
17	3.9	3.7	5.7	38	88	34	10	---	---	---	---	---
18	3.8	3.6	5.5	29	57	31	9.9	---	---	---	---	---
19	4.1	3.6	5.3	25	46	29	9.4	---	---	---	---	---
20	4.2	3.6	5.1	27	39	28	9.2	---	---	---	---	---
21	4.0	4.2	5.1	22	36	62	9.6	---	---	---	---	---
22	4.0	4.1	5.2	20	31	33	8.9	---	---	---	---	---
23	7.4	3.8	5.1	19	27	29	9.5	---	---	---	---	---
24	5.1	3.8	4.9	17	24	27	15	---	---	---	---	---
25	4.6	3.8	4.8	16	23	25	10	---	---	---	---	---
26	4.5	3.8	4.7	15	21	24	9.2	---	---	---	---	---
27	4.2	5.8	4.6	14	21	25	8.7	---	---	---	---	---
28	4.1	7.2	4.5	15	34	23	8.4	---	---	---	---	---
29	4.0	6.5	4.4	17	---	21	8.2	---	---	---	---	---
30	3.9	5.5	4.3	16	---	20	8.2	---	---	---	---	---
31	3.9	---	4.3	16	---	19	---	---	---	---	---	---
TOTAL	134.0	126.2	171.2	635.1	939	1252	358.2	---	---	---	---	---
MEAN	4.32	4.21	5.52	20.5	33.5	40.4	11.9	---	---	---	---	---
MAX	7.4	7.2	9.0	125	210	186	19	---	---	---	---	---
MIN	3.8	3.6	4.3	4.0	12	19	8.2	---	---	---	---	---
CFSM	.32	.31	.41	1.52	2.48	2.99	.88	---	---	---	---	---
IN.	.37	.35	.47	1.75	2.59	3.45	.99	---	---	---	---	---

e Estimated

TENNESSEE RIVER BASIN

03465830 - MUDDY FORK NEAR LEESBURG, TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1993 to September 1995 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	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)
MAY										
24...	0940	11	432	7.8	16.0	724	12.3	131	4600	2200
JUN										
08...	0915	12	386	7.9	18.5	719	8.8	100	270000	98000
21...	1110	9.0	447	8.1	20.5	724	8.5	100	3600	1200
JUL										
05...	1125	11	451	8.0	20.5	728	9.5	111	5800	1400
19...	1140	11	341	7.8	21.0	725	8.7	103	59000	150000
AUG										
02...	1100	7.1	446	8.1	19.5	726	11.0	126	K1300	6900
16...	1000	6.4	445	8.2	19.5	723	8.8	101	4800	6400
31...	1110	7.0	473	8.2	19.5	729	9.7	111	4200	1000
SEP										
14...	1125	5.5	467	8.2	16.5	729	9.9	106	5100	1900
27...	1055	5.4	477	8.4	16.0	720	9.3	100	2700	1800

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	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)
NOV										
09...	1130	3.6	498	8.0	12.5	722	11.0	109	510	370
DEC										
28...	1005	4.4	510	8.1	4.5	729	12.3	100	250	380
FEB										
06...	1045	21	497	8.0	4.0	727	11.8	95	520	8300

K--Results based on non-ideal colony count.

TENNESSEE RIVER BASIN

03466098 JOCKEY CREEK NEAR MOUNT BETHEL CHURCH NEAR LIMESTONE, TN

LOCATION.--Lat 36°14'06", long 82°38'48", Greene County, Hydrologic Unit 06010108, on left bank 45 ft downstream of private bridge, 1 mi northwest of Limestone.

DRAINAGE AREA.--18.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1994 to April 1995 (discontinued).

GAGE.--Water-stage recoder. Datum of gage is 1450 ft above sea level, from topographic map.

REMARKS.--Records good below 30 ft³/s, poor above.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 3,670 ft³/s, Mar. 27, 1994, gage height, 6.50, from rating curve extended above 30 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--April 1994 to April 1995: Maximum discharge, 1,940 ft³/s, Mar. 8, 1995, gage height, 5.52 ft, from rating curve extended above 30 ft³/s; minimum, 6.5 ft³/s, Nov. 23, 24, 1994.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	69	35	17	21	20	16
2	---	---	---	---	---	---	61	31	16	19	19	19
3	---	---	---	---	---	---	57	34	16	18	18	16
4	---	---	---	---	---	---	53	35	16	17	16	15
5	---	---	---	---	---	---	48	31	15	17	37	14
6	---	---	---	---	---	---	60	29	15	16	27	14
7	---	---	---	---	---	---	52	28	18	15	20	14
8	---	---	---	---	---	---	46	28	20	15	19	13
9	---	---	---	---	---	---	42	26	17	14	18	13
10	---	---	---	---	---	---	54	25	35	15	17	12
11	---	---	---	---	---	---	172	24	20	14	16	12
12	---	---	---	---	---	---	86	24	18	e14	16	12
13	---	---	---	---	---	---	132	23	29	e14	15	12
14	---	---	---	---	---	---	72	23	39	e15	14	11
15	---	---	---	---	---	---	79	23	20	e13	15	11
16	---	---	---	---	---	---	201	23	18	e17	15	11
17	---	---	---	---	---	---	71	22	22	e20	29	11
18	---	---	---	---	---	---	61	21	17	e17	20	11
19	---	---	---	---	---	---	55	20	16	e15	17	10
20	---	---	---	---	---	---	51	20	16	32	17	10
21	---	---	---	---	---	---	47	20	16	91	41	10
22	---	---	---	---	---	---	46	19	15	20	22	9.8
23	---	---	---	---	---	---	43	19	15	17	19	9.8
24	---	---	---	---	---	---	41	18	15	16	17	9.6
25	---	---	---	---	---	---	39	18	14	15	17	9.5
26	---	---	---	---	---	---	37	23	14	18	16	9.7
27	---	---	---	---	---	---	36	22	60	20	15	9.4
28	---	---	---	---	---	---	35	19	37	18	15	9.3
29	---	---	---	---	---	---	37	18	34	25	15	9.1
30	---	---	---	---	---	---	39	18	23	17	14	9.1
31	---	---	---	---	---	---	---	17	---	16	14	---
TOTAL	---	---	---	---	---	---	1922	736	643	611	590	352.3
MEAN	---	---	---	---	---	---	64.1	23.7	21.4	19.7	19.0	11.7
MAX	---	---	---	---	---	---	201	35	60	91	41	19
MIN	---	---	---	---	---	---	35	17	14	13	14	9.1
CFSM	---	---	---	---	---	---	3.46	1.28	1.16	1.07	1.03	.63
IN.	---	---	---	---	---	---	3.86	1.48	1.29	1.23	1.19	.71

e Estimated

TENNESSEE RIVER BASIN

03466098 JOCKEY CREEK NEAR MOUNT BETHEL CHURCH NEAR LIMESTONE, TN--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO APRIL 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	8.2	9.1	7.4	20	34	23	---	---	---	---	---
2	9.0	8.0	8.8	7.4	20	30	22	---	---	---	---	---
3	9.1	7.9	8.4	7.3	22	29	21	---	---	---	---	---
4	9.0	7.8	9.1	7.2	62	30	21	---	---	---	---	---
5	8.8	7.6	12	6.9	32	29	21	---	---	---	---	---
6	8.8	7.7	12	8.1	27	30	20	---	---	---	---	---
7	8.7	7.6	11	14	25	29	20	---	---	---	---	---
8	8.6	7.4	10	10	24	428	19	---	---	---	---	---
9	9.0	7.2	9.5	9.1	22	75	19	---	---	---	---	---
10	9.2	8.9	9.9	8.6	22	54	19	---	---	---	---	---
11	8.7	8.7	16	8.9	21	48	18	---	---	---	---	---
12	8.7	7.8	13	15	20	44	18	---	---	---	---	---
13	11	7.6	11	12	19	40	18	---	---	---	---	---
14	10	7.4	11	23	19	38	17	---	---	---	---	---
15	9.7	7.2	10	81	26	36	17	---	---	---	---	---
16	9.0	7.2	10	56	303	34	17	---	---	---	---	---
17	8.8	7.2	9.9	32	88	32	16	---	---	---	---	---
18	8.6	7.0	9.5	27	53	31	16	---	---	---	---	---
19	9.0	6.9	9.3	26	45	30	16	---	---	---	---	---
20	9.1	6.7	9.0	29	41	29	16	---	---	---	---	---
21	8.8	6.8	8.8	25	37	58	16	---	---	---	---	---
22	9.1	6.7	8.9	23	34	34	15	---	---	---	---	---
23	13	6.5	8.9	22	32	31	16	---	---	---	---	---
24	9.9	6.5	8.6	20	30	29	22	---	---	---	---	---
25	9.1	6.6	8.4	19	28	27	16	---	---	---	---	---
26	9.2	6.6	8.2	19	27	26	15	---	---	---	---	---
27	8.8	9.5	8.0	18	27	27	15	---	---	---	---	---
28	8.6	14	7.6	19	33	26	14	---	---	---	---	---
29	8.5	12	7.6	23	---	25	14	---	---	---	---	---
30	8.1	9.9	7.4	22	---	24	14	---	---	---	---	---
31	8.1	---	7.4	21	---	23	---	---	---	---	---	---
TOTAL	283.1	237.1	298.3	626.9	1159	1460	531	---	---	---	---	---
MEAN	9.13	7.90	9.62	20.2	41.4	47.1	17.7	---	---	---	---	---
MAX	13	14	16	81	303	428	23	---	---	---	---	---
MIN	8.1	6.5	7.4	6.9	19	23	14	---	---	---	---	---
CFSM	.49	.43	.52	1.09	2.24	2.55	.96	---	---	---	---	---
IN.	.57	.48	.60	1.26	2.33	2.94	1.07	---	---	---	---	---

TENNESSEE RIVER BASIN

03466098 - JOCKEY CREEK NEAR MOUNT BETHEL CHURCH, NEAR LIMESTONE, TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1993 to September 1995 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	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)
MAY										
24...	1140	17	406	7.8	17.0	722	8.9	97	23000	K1200
JUN										
08...	1040	21	402	7.7	18.5	718	9.1	103	K83000	400000
21...	1000	16	412	8.1	19.5	722	9.4	108	K6800	1100
JUL										
05...	1004	17	416	8.1	19.5	725	8.8	101	4600	1500
19...	0940	14	410	8.0	20.5	724	8.0	94	26000	4600
AUG										
02...	0920	15	425	7.4	19.0	725	9.9	112	<20	19000
16...	1115	16	418	8.2	19.0	723	10.2	116	6600	3500
31...	0930	14	422	8.1	19.0	727	8.7	99	3700	780
SEP										
14...	0940	11	418	8.0	15.5	728	9.2	97	2700	1700
27...	0935	9.4	431	8.2	15.5	718	8.6	92	3900	2600

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	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)
NOV										
09...	1010	7.1	434	8.2	11.0	722	10.1	97	3600	430
DEC										
27...	1040	7.5	446	8.0	4.0	730	12.0	96	830	1100
FEB										
07...	1050	24	449	7.9	4.5	722	12.4	101	2300	5500

K--Results based on non-ideal colony count.

TENNESSEE RIVER BASIN

03466228 SINKING CREEK AT AFTON, TN

LOCATION.--Lat 36°11'55", long 82°44'31", Greene County, Hydrologic Unit 06010108, on left bank 300 ft upstream from bridge on county road, 0.4 mi northwest of Afton, and at mile 3.1.

DRAINAGE AREA.--13.7 mi².

PERIOD OF RECORD.--July 1977 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,459.36 ft above sea level.

REMARKS.--Records good, except for estimated days which were fair. Periodic observations of water temperatures and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 180 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar. 8	1115	*137	*2.93				

Minimum discharge, 3.7 ft³/s, Jan. 5.

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	5.6	5.0	5.2	4.6	15	27	16	11	25	19	e5.0	4.7
2	5.6	4.8	4.7	4.4	16	23	15	15	32	19	e4.7	4.7
3	5.6	4.8	4.6	4.3	19	22	15	11	21	12	e4.5	4.6
4	5.6	4.8	5.0	4.3	54	23	15	11	15	e10	e4.4	4.5
5	5.6	4.8	8.4	4.1	25	23	14	10	13	e8.8	e4.3	4.4
6	5.6	5.0	8.6	5.1	20	23	14	9.8	12	e8.0	e4.3	4.3
7	5.3	4.8	6.8	12	18	22	14	9.5	12	e7.2	e4.6	4.3
8	5.3	4.7	6.1	8.1	17	66	14	9.2	11	e6.6	e5.0	4.2
9	5.3	4.6	5.6	6.8	16	56	13	9.6	10	e6.2	e4.7	4.2
10	5.6	5.3	6.0	5.7	15	41	13	18	10	e6.0	e9.0	4.2
11	5.1	5.2	13	6.0	15	35	13	12	9.7	e5.8	e7.6	4.5
12	5.2	4.7	8.6	13	14	31	13	10	22	e5.6	e6.4	4.3
13	7.0	4.5	7.2	9.5	13	28	12	27	16	e5.4	e5.6	4.9
14	6.3	4.6	6.7	13	13	26	12	84	12	e5.2	e5.2	5.1
15	6.1	4.5	6.2	83	23	25	12	27	12	e5.0	e5.0	4.4
16	5.4	4.1	5.9	56	96	23	12	17	12	e5.0	e4.9	5.0
17	5.1	4.1	5.9	26	66	22	12	15	10	e5.0	e4.9	5.9
18	5.1	4.1	5.8	21	40	21	12	14	20	e4.8	4.9	5.1
19	5.2	4.1	5.6	20	33	21	11	17	11	e4.6	10	4.8
20	5.4	4.1	5.1	25	30	20	11	14	17	e4.5	6.7	4.7
21	5.2	4.1	5.1	19	27	47	12	12	19	e4.4	5.7	4.8
22	5.4	4.1	5.1	17	24	25	11	11	15	e4.3	5.5	6.5
23	7.6	3.9	5.1	16	23	22	12	11	12	e4.2	5.3	6.3
24	6.0	3.9	5.1	15	21	20	20	10	11	e4.1	5.1	5.4
25	5.5	3.9	5.0	14	20	19	13	9.9	11	e4.0	5.0	5.2
26	5.5	3.9	4.8	14	19	19	12	9.9	11	e4.0	5.0	5.6
27	5.3	6.2	4.8	13	19	19	11	12	10	e4.8	5.2	5.4
28	5.0	11	4.8	14	25	18	11	9.8	9.7	e7.0	5.1	4.7
29	5.1	7.8	4.8	16	---	17	10	9.7	9.5	e4.2	4.8	4.2
30	5.1	5.8	4.6	16	---	17	10	9.6	10	e16	4.7	4.1
31	5.1	---	4.6	16	---	16	---	8.8	---	e6.0	4.7	---
TOTAL	171.8	147.2	184.8	501.9	736	817	385	464.8	420.9	216.7	167.8	145.0
MEAN	5.54	4.91	5.96	16.2	26.3	26.4	12.8	15.0	14.0	6.99	5.41	4.83
MAX	7.6	11	13	83	96	66	20	84	32	19	10	6.5
MIN	5.0	3.9	4.6	4.1	13	16	10	8.8	9.5	4.0	4.3	4.1
CFSM	.40	.36	.44	1.18	1.92	1.92	.94	1.09	1.02	.51	.40	.35
IN.	.47	.40	.50	1.36	2.00	2.22	1.05	1.26	1.14	.59	.46	.39

e Estimated

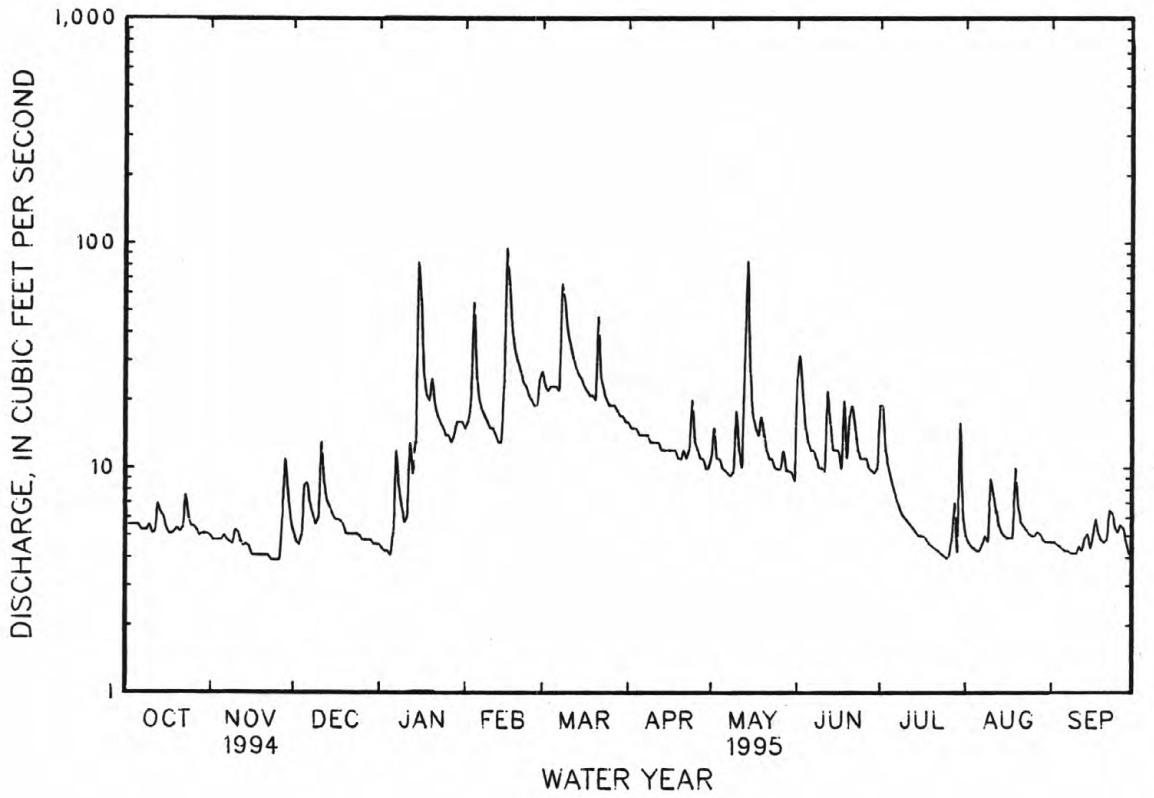
TENNESSEE RIVER BASIN

03466228 SINKING CREEK AT AFTON, TN--Continued

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

MEAN	4.81	6.67	11.4	17.7	25.0	24.2	17.7	14.5	11.3	10.5	6.78	5.71
MAX	10.5	26.0	32.6	34.3	57.1	53.1	48.9	50.6	20.9	32.5	14.6	18.5
(WY)	1990	1978	1992	1978	1994	1994	1994	1984	1989	1979	1984	1982
MIN	1.28	2.16	3.04	3.23	10.7	5.96	4.13	3.49	2.11	1.86	1.68	1.49
(WY)	1989	1987	1988	1981	1981	1988	1988	1988	1988	1988	1988	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1977 - 1995	
ANNUAL TOTAL	7725.5		4358.9			
ANNUAL MEAN	21.2		11.9		12.9	
HIGHEST ANNUAL MEAN					21.5	1994
LOWEST ANNUAL MEAN					3.62	1988
HIGHEST DAILY MEAN	450	Feb 11	96	Feb 16	561	May 7 1984
LOWEST DAILY MEAN	3.9	Nov 23	3.9	Nov 23	1.1	Sep 22 1988
ANNUAL SEVEN-DAY MINIMUM	4.0	Nov 20	4.0	Nov 20	1.1	Oct 20 1988
INSTANTANEOUS PEAK FLOW			137	Mar 8	1510	Jul 21 1979
INSTANTANEOUS PEAK STAGE			2.93	Mar 8	7.79	Jul 21 1979
INSTANTANEOUS LOW FLOW			3.7	Jan 5	.90	Jul 9 1988
ANNUAL RUNOFF (CFSM)	1.54		.87		.95	
ANNUAL RUNOFF (INCHES)	20.98		11.84		12.84	
10 PERCENT EXCEEDS	41		23		25	
50 PERCENT EXCEEDS	12		8.6		8.4	
90 PERCENT EXCEEDS	5.1		4.5		3.0	



TENNESSEE RIVER BASIN

03466825 LICK CREEK NEAR HOLLAND MILL, TN

LOCATION.--Lat 36°19'19", long 82°47'16", Greene County, Hydrologic Unit 06010108, on left bank 55 ft downstream of bridge on county road, 250 ft downstream of Raccoon Branch, 0.1 mi upstream of Horse Fork, 1.2 mi northwest of Holland Mill, and at mile 52.2.

DRAINAGE AREA.--53.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1994 to April 1995 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1170 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 2,090 ft³/s, Mar. 27, 1994, gage height, 8.02 ft.

EXTREMES FOR PERIOD OF RECORD. --April 1994 to April 1995: Maximum discharge, 1,540 ft³/s, Mar. 8, 1995, gage height, 7.22 ft; minimum, 6.5 ft³/s, Nov. 24, 25, 26, 1994.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR APRIL 1994 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	181	53	20	27	15	37
2	---	---	---	---	---	---	147	47	22	25	16	66
3	---	---	---	---	---	---	130	50	20	23	16	27
4	---	---	---	---	---	---	120	60	19	22	14	19
5	---	---	---	---	---	---	105	46	18	21	45	17
6	---	---	---	---	---	---	229	42	18	20	29	17
7	---	---	---	---	---	---	153	40	18	19	17	16
8	---	---	---	---	---	---	116	42	29	18	15	14
9	---	---	---	---	---	---	101	37	21	18	14	14
10	---	---	---	---	---	---	145	35	44	18	14	13
11	---	---	---	---	---	---	527	33	29	18	13	12
12	---	---	---	---	---	---	262	32	25	18	13	12
13	---	---	---	---	---	---	318	31	23	18	12	12
14	---	---	---	---	---	---	181	30	33	19	12	11
15	---	---	---	---	---	---	197	33	26	17	12	11
16	---	---	---	---	---	---	537	36	23	23	13	11
17	---	---	---	---	---	---	193	29	62	39	133	11
18	---	---	---	---	---	---	146	28	28	21	30	15
19	---	---	---	---	---	---	122	26	24	17	18	11
20	---	---	---	---	---	---	107	26	25	16	15	10
21	---	---	---	---	---	---	95	25	38	33	35	9.9
22	---	---	---	---	---	---	88	24	30	21	25	9.9
23	---	---	---	---	---	---	81	23	23	20	19	9.7
24	---	---	---	---	---	---	73	22	22	17	17	10
25	---	---	---	---	---	---	69	22	22	16	16	11
26	---	---	---	---	---	---	64	32	21	16	15	12
27	---	---	---	---	---	---	61	38	181	22	15	9.9
28	---	---	---	---	---	---	58	24	48	95	14	9.5
29	---	---	---	---	---	---	54	22	39	62	14	9.1
30	---	---	---	---	---	---	55	21	30	19	13	8.8
31	---	---	---	---	---	---	---	21	---	16	13	---
TOTAL	---	---	---	---	---	---	4715	1030	981	754	662	455.8
MEAN	---	---	---	---	---	---	157	33.2	32.7	24.3	21.4	15.2
MAX	---	---	---	---	---	---	537	60	181	95	133	66
MIN	---	---	---	---	---	---	54	21	18	16	12	8.8
CFSM	---	---	---	---	---	---	2.97	.63	.62	.46	.40	.29
IN.	---	---	---	---	---	---	3.31	.72	.69	.53	.46	.32

TENNESSEE RIVER BASIN

03466825 LICK CREEK NEAR HOLLAND MILL, TN--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO APRIL 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	8.1	14	11	55	96	38	---	---	---	---	---
2	8.5	8.3	13	11	59	67	37	---	---	---	---	---
3	8.9	8.0	12	11	69	71	36	---	---	---	---	---
4	8.8	7.8	15	11	249	95	35	---	---	---	---	---
5	8.4	7.7	41	11	91	80	34	---	---	---	---	---
6	8.3	8.1	27	30	66	132	33	---	---	---	---	---
7	8.1	8.2	19	109	56	109	32	---	---	---	---	---
8	8.2	7.8	16	34	51	863	31	---	---	---	---	---
9	8.5	7.7	15	25	46	371	30	---	---	---	---	---
10	9.7	8.8	29	22	44	174	29	---	---	---	---	---
11	9.3	9.2	75	36	43	139	28	---	---	---	---	---
12	9.4	8.0	25	99	39	114	29	---	---	---	---	---
13	12	7.7	20	43	36	98	29	---	---	---	---	---
14	12	7.6	18	181	35	87	27	---	---	---	---	---
15	11	7.4	16	755	162	78	26	---	---	---	---	---
16	9.3	7.4	16	304	1050	72	26	---	---	---	---	---
17	9.0	7.4	15	107	306	67	25	---	---	---	---	---
18	8.7	7.2	15	76	145	61	26	---	---	---	---	---
19	9.1	7.2	14	75	109	57	24	---	---	---	---	---
20	11	7.1	13	113	92	55	24	---	---	---	---	---
21	10	7.1	13	72	82	168	27	---	---	---	---	---
22	10	7.2	13	57	71	78	24	---	---	---	---	---
23	16	7.1	13	51	64	66	27	---	---	---	---	---
24	11	6.8	13	45	58	57	70	---	---	---	---	---
25	8.8	6.8	12	41	53	52	32	---	---	---	---	---
26	8.6	6.9	12	39	50	49	27	---	---	---	---	---
27	8.3	15	12	37	49	52	25	---	---	---	---	---
28	8.0	54	12	63	124	48	24	---	---	---	---	---
29	7.9	25	11	165	---	44	23	---	---	---	---	---
30	7.7	16	11	93	---	42	23	---	---	---	---	---
31	7.9	---	11	71	---	40	---	---	---	---	---	---
TOTAL	291.0	308.6	561	2798	3354	3582	901	---	---	---	---	---
MEAN	9.39	10.3	18.1	90.3	120	116	30.0	---	---	---	---	---
MAX	16	54	75	755	1050	863	70	---	---	---	---	---
MIN	7.7	6.8	11	11	35	40	23	---	---	---	---	---
CFSM	.18	.19	.34	1.70	2.26	2.18	.57	---	---	---	---	---
IN.	.20	.22	.39	1.96	2.35	2.51	.63	---	---	---	---	---

TENNESSEE RIVER BASIN

03466825 - LICK CREEK NEAR HOLLAND MILL, TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1993 to September 1995 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	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)
MAY										
25...	0955	23	436	8.0	17.0	726	8.2	89	K940	380
JUN										
07...	0952	17	449	7.8	20.0	728	8.3	96	1100	1000
22...	0950	31	359	7.9	20.5	727	8.2	96	K80000	280000
JUL										
06...	0930	21	443	8.3	21.5	731	7.8	92	K1500	950
20...	0930	17	454	8.2	22.0	733	7.8	93	2000	1100
AUG										
03...	0925	15	480	8.1	20.5	734	9.5	110	K33	5600
17...	1110	238	355	8.0	20.0	727	10.3	119	<10	K81000
29...	1315	14	467	8.3	20.0	733	--	--	K1700	810
SEP										
12...	1245	13	468	8.2	17.5	737	8.9	96	800	600
28...	1055	9.3	476	8.1	15.5	728	8.2	86	490	340

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	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)
NOV										
07...	1240	8.7	505	8.1	13.0	736	9.4	93	K300	K270
DEC										
21...	1015	13	535	8.1	4.0	740	12.2	96	160	330
FEB										
08...	1140	51	504	8.4	2.5	735	12.8	97	190	2000
AUG										
21...	1400	6.3	491	8.2	23.5	727	7.4	92	--	--

K--Results based on non-ideal colony count.

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TENNESSEE RIVER BASIN

03469175 LITTLE PIGEON RIVER ABOVE SEVIERVILLE, TN

LOCATION.--Lat 35°51'55", long 83°32'01", Sevier County, Hydrologic Unit 06010107, on left bank of county road, 1.2 mi downstream from East Fork, 1.2 mi upstream from West Prong, 0.8 mi east of Sevierville, and at mi 7.5.

DRAINAGE AREA.-- 184 mi².

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

REVISED RECORD.--WDR TN-94-1: 1989-91 (M): 1992, 1995(P).

GAGE.--Data collection platform. Datum of gage is 898.08 ft above sea level.

REMARKS.--Records good. The town of Sevierville diverts an average of about 1.5 ft³/s (1.0 MGD) for municipal supply. Periodic observations of water temperature and conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,600 ft³/s, revised and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Feb. 16	2330	6,480	10.17	Mar. 8	1430	*8,120	*11.61

Minimum discharge, 29 ft³/s, Aug. 20.

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	93	78	130	83	177	500	161	92	91	740	228	66
2	90	76	109	76	175	525	154	146	211	697	98	61
3	91	74	96	71	196	451	147	131	277	340	64	53
4	92	72	165	e68	768	437	143	112	179	234	53	48
5	85	70	173	e66	539	410	139	105	135	183	51	43
6	79	68	129	e200	356	398	133	97	121	149	65	41
7	73	68	120	e500	287	361	128	90	118	128	118	38
8	67	68	111	e250	252	3840	124	85	138	114	129	36
9	68	65	270	e190	e220	2320	121	82	110	101	129	36
10	102	101	505	173	e230	1200	116	141	99	91	105	35
11	94	154	261	155	212	823	110	180	91	82	143	35
12	79	107	194	273	207	634	107	156	171	76	91	37
13	108	92	160	274	177	525	135	117	728	70	69	40
14	111	84	139	800	173	451	115	495	288	65	58	87
15	107	79	125	2410	259	396	107	514	192	61	47	61
16	104	76	123	1600	3940	349	103	257	150	76	42	46
17	90	72	115	965	3470	313	97	187	131	73	37	88
18	83	70	102	616	1450	280	110	152	117	72	34	75
19	81	69	96	455	939	254	104	704	104	58	31	54
20	80	66	91	485	661	238	95	454	99	53	68	45
21	79	63	103	372	533	329	105	287	114	50	72	40
22	79	69	130	309	413	266	119	213	108	53	87	169
23	166	65	115	268	358	237	104	174	97	49	76	249
24	178	61	104	234	338	215	207	148	122	58	54	134
25	124	59	96	203	293	195	164	130	162	46	45	96
26	111	59	93	189	268	182	133	115	177	40	41	82
27	106	93	90	173	245	203	122	109	120	37	222	80
28	95	498	88	178	393	224	112	141	98	36	424	69
29	88	317	85	233	---	189	102	122	110	36	158	61
30	84	175	83	206	---	179	95	109	152	40	103	55
31	81	---	83	190	---	170	---	101	---	60	79	---
TOTAL	2968	3068	4284	12265	17529	17094	3712	5946	4810	3968	3021	2060
MEAN	95.7	102	138	396	626	551	124	192	160	128	97.5	68.7
MAX	178	498	505	2410	3940	3840	207	704	728	740	424	249
MIN	67	59	83	66	173	170	95	82	91	36	31	35
CFSM	.52	.56	.75	2.15	3.40	3.00	.67	1.04	.87	.70	.53	.37
IN.	.60	.62	.87	2.48	3.54	3.46	.75	1.20	.97	.80	.61	.42

e Estimated

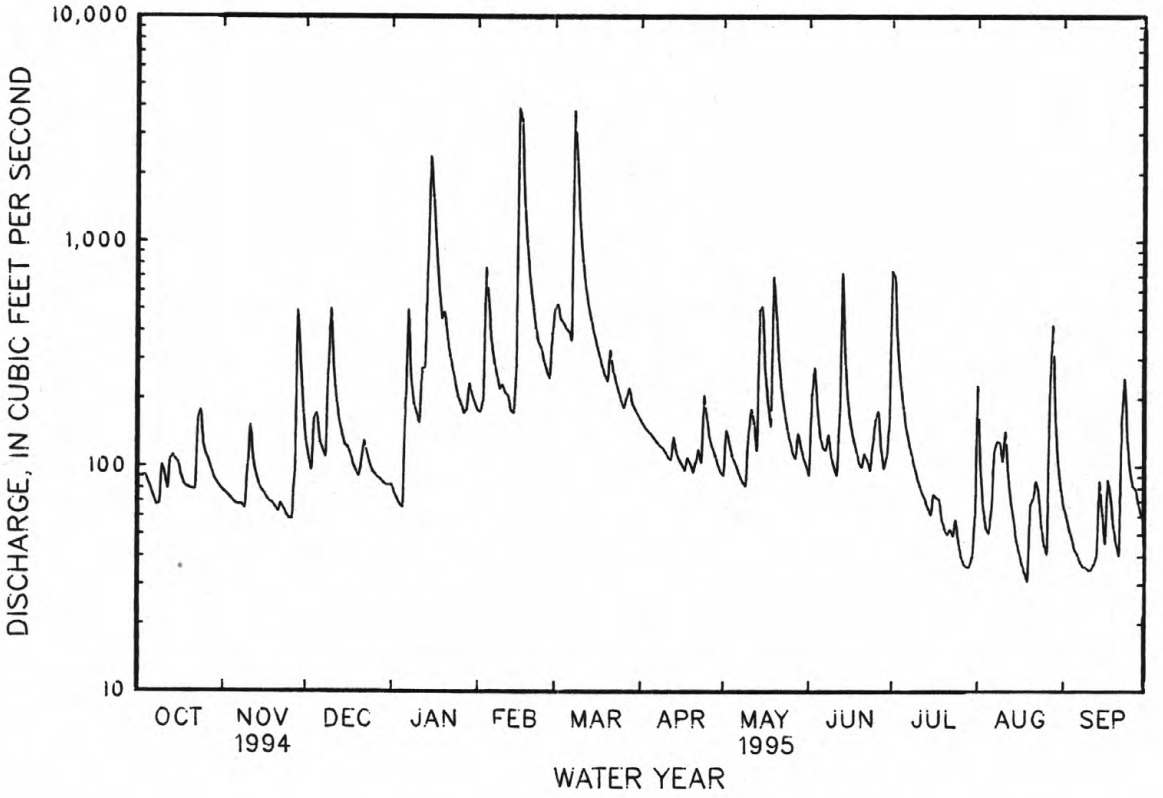
TENNESSEE RIVER BASIN

03469175 LITTLE PIGEON RIVER ABOVE SEVIERVILLE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1995, BY WATER YEAR (WY)

MEAN	153	212	444	535	648	791	422	344	304	221	197	177
MAX	335	374	743	873	1024	1426	1141	576	552	412	409	530
(WY)	1990	1990	1992	1994	1994	1994	1994	1989	1989	1989	1994	1989
MIN	54.8	101	135	317	240	551	124	192	121	90.7	89.4	68.7
(WY)	1992	1991	1989	1991	1993	1995	1995	1995	1990	1993	1990	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1988 - 1995	
ANNUAL TOTAL	192438		80725			
ANNUAL MEAN	527		221		371	
HIGHEST ANNUAL MEAN					573	1994
LOWEST ANNUAL MEAN					221	1995
HIGHEST DAILY MEAN	10900	Mar 28	3940	Feb 16	10900	Mar 28 1994
LOWEST DAILY MEAN	59	Nov 25	31	Aug 19	31	Aug 19 1995
ANNUAL SEVEN-DAY MINIMUM	63	Nov 20	37	Sep 7	37	Sep 7 1995
INSTANTANEOUS PEAK FLOW			8120	Mar 8	19700	Mar 28 1994
INSTANTANEOUS PEAK STAGE			11.61	Mar 8	17.50	Mar 28 1994
INSTANTANEOUS LOW FLOW			29	Aug 20	29	Aug 20 1995
ANNUAL RUNOFF (CFSM)	2.87		1.20		2.02	
ANNUAL RUNOFF (INCHES)	38.91		16.32		27.41	
10 PERCENT EXCEEDS	1240		429		785	
50 PERCENT EXCEEDS	272		115		213	
90 PERCENT EXCEEDS	84		57		66	



TENNESSEE RIVER BASIN

03491000 BIG CREEK NEAR ROGERSVILLE, TN

LOCATION.--Lat 36°25'34", long 82°57'07", Hawkins County, Hydrologic Unit 06010104, on left bank 300 ft upstream from county road bridge, 3 mi northeast of Rogersville, and at mile 2.0.

DRAINAGE AREA.--47.3 mi².

PERIOD OF RECORD.--April 1941 to June 1949. Occasional low-flow measurements, water years 1950-55, 1957. Annual maximum, water years 1955-57; October 1957 to current year.

REVISED RECORDS.--WSP 1436: 1945.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 1,128.9 ft above sea level (levels based on City of Rogersville construction plans for pumping station). Dec. 7, 1954, to Sept. 30, 1957, crest-stage gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar. 8	1745	*1,900	*5.48	No other peak greater than base discharge.			

Minimum discharge, 2.8 ft³/s, Sept. 30.

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	13	9.0	21	13	84	87	38	25	23	15	8.6	3.6
2	11	8.9	17	13	75	70	37	117	71	12	6.6	3.6
3	11	9.0	15	12	81	65	35	67	76	12	5.8	3.6
4	11	9.0	15	12	363	70	34	48	42	12	5.4	3.6
5	11	8.7	22	11	176	74	33	39	32	13	4.7	3.6
6	11	8.6	26	13	118	119	32	34	27	11	4.6	3.5
7	11	8.4	23	171	96	154	30	30	27	9.3	5.3	3.4
8	10	8.3	20	76	82	796	28	26	24	8.3	6.2	3.4
9	9.8	8.0	17	50	64	475	27	24	22	7.3	6.7	3.4
10	9.9	8.2	25	38	61	254	26	78	20	7.2	6.4	3.4
11	10	9.0	190	34	56	206	26	95	18	7.2	6.9	3.6
12	11	9.0	68	76	50	171	25	62	22	6.9	7.6	3.4
13	11	8.1	44	71	43	141	27	136	27	6.8	13	3.4
14	12	7.6	34	67	40	120	27	748	21	6.2	7.7	3.5
15	13	7.4	29	759	345	106	25	321	18	6.0	5.9	3.4
16	14	7.2	24	558	792	93	24	150	16	7.7	5.0	3.6
17	13	7.2	23	204	434	81	23	102	15	8.3	4.3	5.4
18	12	7.0	23	135	221	74	23	78	14	7.1	4.3	6.9
19	11	6.9	20	104	162	67	22	90	13	6.9	4.3	6.5
20	12	6.6	19	104	130	61	20	72	16	6.3	5.6	4.9
21	15	7.0	17	87	111	97	24	57	16	5.7	5.2	4.0
22	15	7.3	18	72	92	100	25	49	14	5.6	5.1	4.1
23	16	7.5	19	62	79	79	22	42	13	5.1	4.5	5.1
24	21	7.0	18	54	70	69	49	37	13	5.2	4.3	6.1
25	18	6.7	17	47	61	59	43	34	12	5.5	4.1	5.4
26	15	6.6	16	43	56	53	34	32	12	5.3	3.8	5.0
27	12	25	15	39	53	51	29	47	12	5.2	3.6	6.0
28	11	97	15	44	84	52	25	36	11	6.7	3.6	5.2
29	11	60	14	93	---	47	23	32	10	7.9	3.8	3.9
30	10	30	14	126	---	44	22	28	14	6.8	4.1	3.0
31	9.7	---	13	102	---	40	---	25	---	7.3	3.7	---
TOTAL	381.4	416.2	851	3290	4079	3975	858	2761	671	242.8	170.7	127.5
MEAN	12.3	13.9	27.5	106	146	128	28.6	89.1	22.4	7.83	5.51	4.25
MAX	21	97	190	759	792	796	49	748	76	15	13	6.9
MIN	9.7	6.6	13	11	40	40	20	24	10	5.1	3.6	3.0
CFSM	.26	.29	.58	2.24	3.08	2.71	.60	1.88	.47	.17	.12	.09
IN.	.30	.33	.67	2.59	3.21	3.13	.67	2.17	.53	.19	.13	.10

TENNESSEE RIVER BASIN

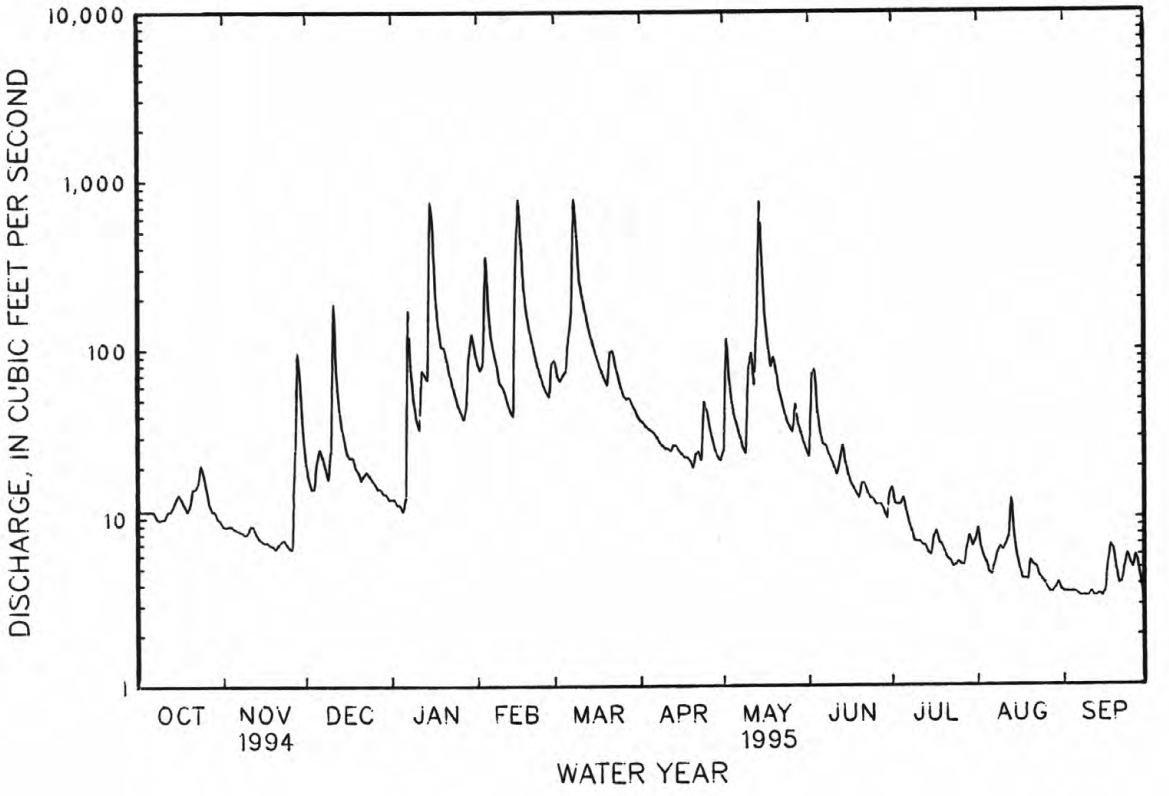
03491000 BIG CREEK NEAR ROGERSVILLE, TN--Continued

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

MEAN	15.3	30.7	73.8	103	136	132	86.3	57.4	30.1	22.7	16.8	12.2
MAX	109	124	258	331	472	366	220	206	150	96.5	67.1	58.7
(WY)	1972	1974	1992	1974	1994	1963	1977	1958	1989	1960	1942	1989
MIN	3.53	4.43	5.06	9.33	34.4	27.4	15.4	10.7	7.61	4.35	2.45	3.38
(WY)	1989	1988	1966	1981	1968	1983	1986	1985	1941	1988	1988	1984

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1941 - 1995		
ANNUAL TOTAL	41273.6		17823.6				
ANNUAL MEAN	113		48.8		59.3		
HIGHEST ANNUAL MEAN					123		1994
LOWEST ANNUAL MEAN					20.9		1988
HIGHEST DAILY MEAN	a,e4000	Feb 11	796	Mar 8	a,e4000	Feb 11	1994
LOWEST DAILY MEAN	6.6	Nov 20	3.0	Sep 30	1.4	Aug 18	1988
ANNUAL SEVEN-DAY MINIMUM	7.0	Nov 20	3.4	Sep 7	1.8	Aug 14	1988
INSTANTANEOUS PEAK FLOW			1900	Mar 8	a5760	Mar 12	1963
INSTANTANEOUS PEAK STAGE			5.48	Mar 8	b,c12.14	Mar 27	1994
INSTANTANEOUS LOW FLOW			2.8	Sep 30	1.3	Sep 23	1955
ANNUAL RUNOFF (CFSM)	2.39		1.03		1.25		
ANNUAL RUNOFF (INCHES)	32.46		14.02		17.02		
10 PERCENT EXCEEDS	210		101		127		
50 PERCENT EXCEEDS	30		18		23		
90 PERCENT EXCEEDS	11		5.0		5.4		

a From rating curve extended above 3,000 ft³/s on basis of contracted-opening measurement of peak flow.
b Due to backwater from log jam.
c From flood marks.
e Estimated.



TENNESSEE RIVER BASIN

03491544 CROCKETT CREEK BELOW ROGERSVILLE, TN

LOCATION.--Lat 36°22'47", long 83°02'48", Hawkins County, Hydrologic Unit 06010104, on right bank at Rogersville sewage treatment plant, 3.0 mi southwest of Rogersville, and at mile 1.2.

DRAINAGE AREA.--4.67 mi².

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1092.53 ft above sea level.

REMARKS.-- Records good, except estimated days which are fair. Periodic observations of water temperature and conductance are published in this report as miscellaneous water-quality data.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar. 8	1045	363	3.53	July 30	2000	322	3.37
May 13	1900	*578	*4.27	Aug. 19	1945	274	3.16

Minimum discharge, 0.46 ft³/s, July 25, 26, 27.

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	1.1	1.7	1.1	8.0	4.1	1.9	5.7	1.9	3.8	1.5	.82
2	1.0	.97	1.4	1.1	8.3	3.4	1.8	3.7	3.5	2.1	1.3	.89
3	1.2	.89	1.3	1.1	14	3.8	1.8	2.0	2.2	1.7	1.1	.81
4	1.0	.85	2.7	1.1	19	3.8	1.8	1.7	1.8	4.1	1.1	.75
5	.98	.87	3.8	1.0	11	4.1	1.7	1.5	1.6	1.4	1.0	.75
6	.96	.98	2.5	10	8.1	20	1.7	1.4	1.6	1.2	1.6	.72
7	.95	1.4	2.0	5.4	7.0	12	1.6	1.3	1.5	1.1	1.1	.70
8	.91	1.0	1.7	3.3	6.1	105	1.5	1.3	1.4	1.0	2.7	.69
9	1.8	1.1	1.5	2.6	5.5	24	1.5	4.1	1.3	.89	1.6	.68
10	1.1	1.3	13	2.2	5.3	14	1.4	12	1.3	.85	5.7	2.8
11	.95	.94	6.8	4.7	5.0	9.8	1.3	20	1.1	.78	2.3	.97
12	.92	.90	4.0	5.7	4.6	7.9	2.8	5.1	3.4	.75	1.4	.81
13	2.7	.86	3.0	3.9	4.2	6.7	1.6	80	1.5	.71	1.2	.78
14	1.7	.83	2.5	16	4.2	5.8	1.4	57	1.3	.71	1.1	.88
15	1.3	.80	2.1	52	29	5.1	1.3	19	1.2	.67	1.0	.73
16	1.2	.78	2.0	28	85	4.6	1.6	10	1.1	.70	.97	1.1
17	1.1	.76	2.1	15	29	3.9	1.8	7.0	1.6	.76	.95	5.2
18	.98	.79	1.7	11	15	3.6	1.3	5.9	1.2	.69	1.0	1.3
19	2.2	.80	1.6	10	10	3.3	1.4	21	1.0	.65	15	1.1
20	1.4	.81	1.5	8.1	8.1	3.6	1.3	7.5	3.8	.67	5.8	e1.0
21	1.2	.94	1.4	7.0	6.9	6.9	2.5	5.7	1.3	.60	2.1	e1.1
22	1.6	.80	2.3	6.2	5.8	3.5	1.4	4.7	1.1	.57	1.7	e1.5
23	2.9	.77	1.7	5.5	5.2	3.1	2.1	4.0	1.1	.56	1.4	e7.0
24	1.5	.75	1.5	4.9	4.5	2.7	2.2	3.4	1.0	.55	1.3	e5.0
25	1.3	.77	1.4	4.4	4.0	2.7	1.4	3.0	.92	.52	1.1	e3.0
26	1.2	.79	1.3	4.1	3.8	2.5	1.4	3.4	.93	.51	1.1	e2.0
27	1.1	8.6	1.2	3.9	4.9	2.9	1.3	2.7	.87	3.2	1.0	e1.5
28	1.1	10	1.3	8.9	5.4	2.4	1.3	3.0	.83	5.5	.95	1.2
29	1.0	2.8	1.2	16	---	2.2	1.2	2.9	.80	1.1	.89	1.1
30	.99	2.0	1.2	12	---	2.1	1.2	2.4	13	16	.86	1.1
31	.99	---	1.2	9.7	---	2.0	---	2.0	---	3.0	.82	---
TOTAL	40.33	46.95	74.6	265.9	326.9	281.5	48.5	304.4	57.15	57.34	62.64	47.98
MEAN	1.30	1.56	2.41	8.58	11.7	9.08	1.62	9.82	1.90	1.85	2.02	1.60
MAX	2.9	10	13	52	85	105	2.8	80	13	16	15	7.0
MIN	.91	.75	1.2	1.0	3.8	2.0	1.2	1.3	.80	.51	.82	.68
CFSM	.28	.34	.52	1.84	2.50	1.94	.35	2.10	.41	.40	.43	.34
IN.	.32	.37	.59	2.12	2.60	2.24	.39	2.42	.46	.46	.50	.38

e Estimated

TENNESSEE RIVER BASIN

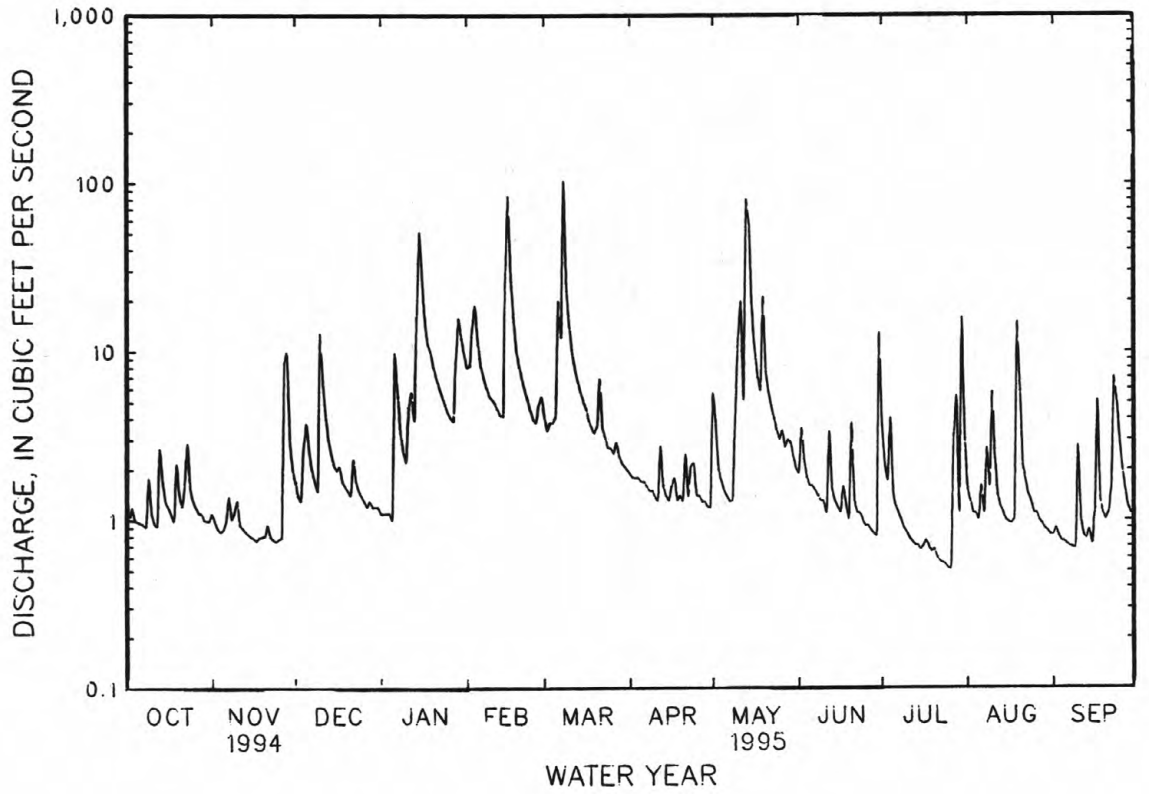
03491544 CROCKETT CREEK BELOW ROGERSVILLE, TN--Continued

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

MEAN	1.69	2.94	8.30	9.40	14.9	12.2	6.70	5.39	4.60	2.44	3.00	2.67
MAX	3.75	4.69	18.7	12.1	31.3	26.4	18.1	9.82	9.95	3.51	5.39	7.63
(WY)	1990	1990	1992	1994	1994	1994	1994	1995	1989	1994	1994	1989
MIN	.53	1.37	2.41	7.30	6.73	6.38	1.62	2.37	1.01	.59	1.70	.80
(WY)	1989	1991	1995	1991	1992	1992	1995	1994	1993	1993	1992	1992

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1989 - 1995	
ANNUAL TOTAL	3309.46		1614.19			
ANNUAL MEAN	9.07		4.42		6.14	
HIGHEST ANNUAL MEAN					10.1	1994
LOWEST ANNUAL MEAN					4.42	1995
HIGHEST DAILY MEAN	223	Mar 27	105	Mar 8	223	Mar 27 1994
LOWEST DAILY MEAN	.75	Nov 24	.51	Jul 26	.31	Oct 20 1988
ANNUAL SEVEN-DAY MINIMUM	.80	Nov 14	.57	Jul 20	.34	Oct 14 1988
INSTANTANEOUS PEAK FLOW			578	May 13	UNKNOWN	Sep 15 1989
INSTANTANEOUS PEAK STAGE			4.27	May 13	5.10	Sep 15 1989
INSTANTANEOUS LOW FLOW			a.46	Jul 25	b.31	Oct 20 1988
ANNUAL RUNOFF (CFSM)	1.94		.95		1.32	
ANNUAL RUNOFF (INCHES)	26.36		12.86		17.87	
10 PERCENT EXCEEDS	18		9.2		13	
50 PERCENT EXCEEDS	2.7		1.6		2.8	
90 PERCENT EXCEEDS	1.0		.81		.84	

a Also occured July 26, 27.
b Also occured July 24, 25, 1993.



TENNESSEE RIVER BASIN

03497300 LITTLE RIVER ABOVE TOWNSEND, TN
(Hydrologic bench-mark station)

LOCATION.--Lat 35°39'52", long 83°42'41", Blount County, Hydrologic Unit 06010201, in Great Smoky Mountains National Park, on left bank along U.S. Highway 321, 0.3 mi upstream from Rush Branch, 0.4 mi southeast of Park entrance, 2.2 mi southeast of Townsend, and at mile 35.3.

DRAINAGE AREA.--106 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Data logger and crest-stage gage. Datum of gage is 1,106.92 ft above sea level.

REMARKS.--Records good.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,100 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Feb. 16	1300	*5,260	*7.10	Mar. 8	1230	4,070	6.31

Minimum discharge, 28 ft³/s, Oct. 6.

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	63	78	185	95	247	377	168	132	115	172	93	69
2	63	76	160	92	253	344	160	225	205	176	67	73
3	73	71	143	85	257	340	153	170	189	139	53	58
4	61	69	142	84	486	338	152	158	133	128	49	53
5	45	68	208	76	395	333	144	152	117	110	50	55
6	41	78	193	132	339	359	137	139	131	98	246	50
7	43	82	166	423	316	335	132	130	162	95	171	46
8	45	72	158	252	285	1930	127	121	145	89	166	42
9	62	69	145	228	265	1320	122	115	114	81	114	41
10	72	116	324	209	270	821	117	148	101	76	152	39
11	46	124	618	215	266	625	112	360	93	76	144	155
12	42	97	392	387	234	511	135	226	236	70	100	121
13	66	89	308	336	218	435	137	191	258	66	80	107
14	73	84	257	609	213	372	112	629	192	64	69	152
15	e100	80	222	2160	371	330	107	609	158	61	60	81
16	e90	77	200	1240	3500	299	104	425	156	62	54	68
17	e85	74	192	837	2330	273	115	324	217	63	49	130
18	78	73	171	617	1160	250	134	264	191	65	46	118
19	76	70	154	534	785	231	108	586	149	56	48	87
20	81	68	143	522	605	220	104	427	164	53	150	73
21	76	71	134	434	495	311	168	334	200	51	97	67
22	76	75	140	383	400	236	137	278	174	54	71	273
23	163	63	140	345	353	225	147	239	153	54	60	257
24	121	60	123	306	330	209	242	207	155	50	52	189
25	100	60	116	277	286	195	194	183	143	45	50	153
26	98	62	111	260	265	185	177	165	143	42	61	137
27	88	112	107	240	261	236	162	153	126	41	193	121
28	83	550	104	270	445	214	151	174	115	45	197	101
29	79	339	100	303	---	191	139	143	135	50	114	89
30	77	232	97	277	---	183	134	128	148	48	88	79
31	77	---	95	256	---	175	---	118	---	62	76	---
TOTAL	2343	3239	5748	12484	15630	12403	4231	7653	4718	2342	3020	3084
MEAN	75.6	108	185	403	558	400	141	247	157	75.5	97.4	103
MAX	163	550	618	2160	3500	1930	242	629	258	176	246	273
MIN	41	60	95	76	213	175	104	115	93	41	46	39
CFSM	.71	1.02	1.75	3.80	5.27	3.77	1.33	2.33	1.48	.71	.92	.97
IN.	.82	1.14	2.02	4.38	5.49	4.35	1.48	2.69	1.66	.82	1.06	1.08

e Estimated

TENNESSEE RIVER BASIN

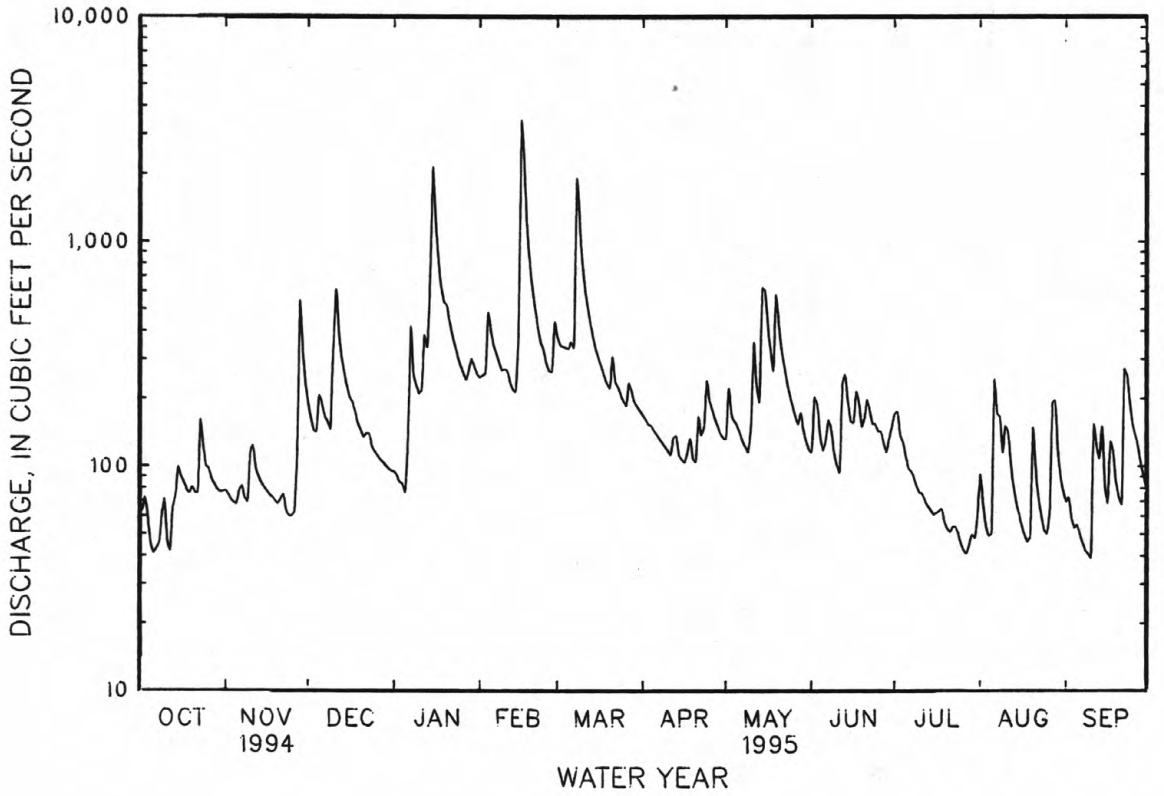
03497300 LITTLE RIVER ABOVE TOWNSEND, TN--Continued
(Hydrologic bench-mark station)

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

MEAN	128	206	351	401	452	521	382	277	214	196	178	122
MAX	373	436	725	785	857	1195	808	774	648	815	530	492
(WY)	1973	1967	1992	1974	1990	1994	1994	1984	1989	1971	1966	1989
MIN	28.9	36.0	58.8	72.7	191	185	141	124	50.4	63.8	40.5	43.2
(WY)	1988	1988	1966	1981	1978	1988	1995	1986	1988	1993	1987	1987

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1964 - 1995	
ANNUAL TOTAL	158459		76895			
ANNUAL MEAN	434		211		285	
HIGHEST ANNUAL MEAN					460	1994
LOWEST ANNUAL MEAN					141	1988
HIGHEST DAILY MEAN	9000	Mar 28	3500	Feb 16	9000	Mar 28 1994
LOWEST DAILY MEAN	41	Oct 6	39	Sep 10	23	Oct 18 1987
ANNUAL SEVEN-DAY MINIMUM	50	Oct 6	46	Jul 24	25	Oct 14 1987
INSTANTANEOUS PEAK FLOW			5260	Feb 16	27100	Mar 27 1994
INSTANTANEOUS PEAK STAGE			7.10	Feb 16	a15.75	Mar 27 1994
INSTANTANEOUS LOW FLOW			28	Oct 6	b21	Jan 18 1981
ANNUAL RUNOFF (CFSM)	4.10		1.99		2.69	
ANNUAL RUNOFF (INCHES)	55.61		26.99		36.54	
10 PERCENT EXCEEDS	811		374		556	
50 PERCENT EXCEEDS	257		139		195	
90 PERCENT EXCEEDS	77		60		62	

a From floodmarks in gage house.
b Result of freeze-up.
c Due to unknown regulation.



TENNESSEE RIVER BASIN

03497300 LITTLE RIVER ABOVE TOWNSEND, TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to 1982, 1986 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1963 to September 1981.

INSTRUMENTATION.--Temperature recorder from October 1963 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 26.0°C June 23, 1964, July 3, 1970; minimum, 0.0°C on several days during winter periods.

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

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	BAROMETRIC PRESSURE (MM OF HG)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
NOV 22...	1230	80020	72	24	23	7.1	7.3	11.0	741	0.20	11.3	105
JAN 18...	1025	80020	621	13	16	6.7	6.5	7.0	736	0.60	12.0	103
MAR 14...	1125	80020	370	12	18	7.3	7.2	9.5	742	0.30	10.1	91
MAY 24...	1025	80020	211	26	20	6.8	--	16.5	739	0.20	9.6	101
JUL 26...	0952	80020	42	31	31	7.4	7.8	23.0	730	0.40	8.4	102
SEP 06...	1025	80020	48	25	26	7.4	7.3	18.5	742	0.30	10.0	110

DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3
NOV 22...	K2	87	7	0	2.0	0.57	1.0	21	0.2	0.60	8
JAN 18...	K3	21	4	0	1.1	0.33	0.80	27	0.2	0.40	6
MAR 14...	K1	18	4	0	1.2	0.35	0.90	28	0.2	0.50	5
MAY 24...	K2	350	6	0	1.5	0.43	0.90	24	0.2	0.50	6
JUL 26...	20	56	11	0	2.9	0.85	1.2	18	0.2	0.60	13
SEP 06...	10	42	9	0	2.3	0.69	1.0	19	0.1	0.50	9

DATE	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)
NOV 22...	9.1	1.5	0.40	<0.10	5.7	13	17	0.02	2.52	<0.010	--
JAN 18...	4.4	1.7	0.40	<0.10	5.7	13	14	0.02	21.8	<0.010	0.180
MAR 14...	4.6	1.2	0.40	<0.10	5.7	12	14	0.02	12.0	<0.010	0.170
MAY 24...	6.6	1.2	0.50	<0.10	6.1	17	15	0.02	9.68	<0.010	0.160
JUL 26...	12	1.5	0.50	<0.10	6.7	19	23	0.03	2.15	<0.010	0.180
SEP 06...	10	1.6	0.40	<0.10	6.1	15	18	0.02	1.96	<0.010	0.110

K--Results based on non-ideal colony count.

TENNESSEE RIVER BASIN

03497300 LITTLE RIVER ABOVE TOWNSEND, TN--Continued

WATER-QUALITY RECORDS

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

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	BARIUM, DISSOLVED (UG/L AS BA)	COBALT, DISSOLVED (UG/L AS CO)	IRON, DISSOLVED (UG/L AS FE)
NOV 22...	<0.050	--	<0.015	<0.20	<0.010	<0.010	<0.010	20	7	<3	11
JAN 18...	0.180	--	<0.015	<0.20	0.010	<0.010	<0.010	--	--	--	--
MAR 14...	0.170	--	<0.015	<0.20	<0.010	<0.010	<0.010	<10	6	5	9
MAY 24...	0.160	0.03	0.020	<0.20	<0.010	<0.010	<0.010	<10	7	<3	8
JUL 26...	0.180	0.03	0.020	<0.20	<0.010	<0.010	<0.010	10	10	<3	10
SEP 06...	0.110	--	<0.015	<0.20	0.010	<0.010	<0.010	--	--	--	--

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 22...	<4	2	<10	<1	<1	<1.0	10	<6	1	0.19	100
JAN 18...	--	--	--	--	--	--	--	--	2	3.4	87
MAR 14...	<4	<1	<10	<1	<1	<1.0	7	<6	1	1.0	100
MAY 24...	<4	<1	<10	<1	<1	<1.0	9	<6	2	1.1	86
JUL 26...	<4	2	<10	<1	<1	<1.0	14	<6	1	0.11	100
SEP 06...	--	--	--	--	--	--	--	--	1	0.13	100

DATE	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L)	RA-226 2 SIGMA WATER, DISS, (PCI/L)
SEP 06...	0.04	<0.01	0	0.020

TENNESSEE RIVER BASIN

03498500 LITTLE RIVER NEAR MARYVILLE, TN

LOCATION.--Lat 35°47'10", long 83°53'04", Blount County, Hydrologic Unit 06010201, on left bank 200 ft above bridge on U.S. Highway 411, 0.8 mi downstream from Crooked Creek, 5.0 mi east of Maryville, and at mile 17.3.

DRAINAGE AREA.--269 mi².

PERIOD OF RECORD.--July 1951 to current year.

GAGE.--Data-collection platform and crest-stage gage. Datum of gage is 850.00 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Diurnal fluctuations at low flow caused by small mills above station. The town of Maryville diverted an average of about 4.0 ft³/s (2.6 MGD) for municipal supply 100 ft upstream from gage. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 25, 1875, reached a stage of 31 ft, discharge, 50,000 ft³/s, and flood of April 1, 1896, reached a stage of 26 ft, discharge, 36,000 ft³/s, from reports by Tennessee Valley Authority. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Feb. 16	2315	*10,500	*15.20	Mar. 8	1700	10,300	15.07

Minimum discharge, 66 ft³/s, Sept. 10.

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	143	149	336	180	419	582	332	241	227	253	115	122
2	140	150	288	177	409	535	319	340	496	250	120	132
3	153	141	258	169	410	532	303	287	1130	222	104	112
4	163	137	255	165	882	575	297	261	449	205	88	96
5	140	135	366	158	702	565	292	251	329	192	90	89
6	133	135	386	230	573	621	278	233	300	172	153	86
7	130	151	313	887	514	581	269	219	356	163	265	79
8	127	138	286	466	469	4900	260	211	340	158	203	76
9	146	133	263	385	390	2780	252	202	264	150	165	71
10	233	234	390	344	427	1350	245	252	237	141	148	69
11	169	255	1240	337	421	1020	237	452	220	136	207	89
12	149	193	707	574	380	848	248	364	1100	131	150	205
13	187	174	537	506	347	734	284	300	751	124	126	122
14	179	165	444	646	338	652	237	716	435	117	124	201
15	184	157	383	3320	457	595	224	940	345	115	132	139
16	174	150	343	1910	5760	545	218	639	295	118	121	109
17	157	147	332	1180	5220	506	222	496	339	116	111	123
18	149	142	307	869	1790	470	272	412	328	114	106	189
19	147	139	276	729	1180	439	229	2370	275	108	103	135
20	155	135	256	759	933	421	218	994	259	97	223	114
21	151	132	242	627	790	574	288	636	319	94	277	103
22	151	139	243	554	661	449	293	506	292	96	158	239
23	416	130	258	503	591	420	264	427	258	98	138	359
24	268	124	232	453	553	393	427	373	269	95	127	256
25	202	122	219	408	494	369	361	334	245	86	118	203
26	186	124	208	385	460	353	320	303	260	80	119	178
27	176	216	201	359	442	412	293	284	228	77	177	171
28	163	1090	197	416	626	438	272	324	205	78	290	143
29	156	716	191	612	---	378	253	281	200	83	183	127
30	151	427	186	486	---	360	243	248	230	88	147	115
31	150	---	181	444	---	345	---	230	---	95	128	---
TOTAL	5328	6380	10324	19238	26638	23742	8250	14126	10981	4052	4716	4252
MEAN	172	213	333	621	951	766	275	456	366	131	152	142
MAX	416	1090	1240	3320	5760	4900	427	2370	1130	253	290	359
MIN	127	122	181	158	338	345	218	202	200	77	88	69
CFSM	.64	.79	1.24	2.31	3.54	2.85	1.02	1.69	1.36	.49	.57	.53
IN.	.74	.88	1.43	2.66	3.68	3.28	1.14	1.95	1.52	.56	.65	.59

TENNESSEE RIVER BASIN

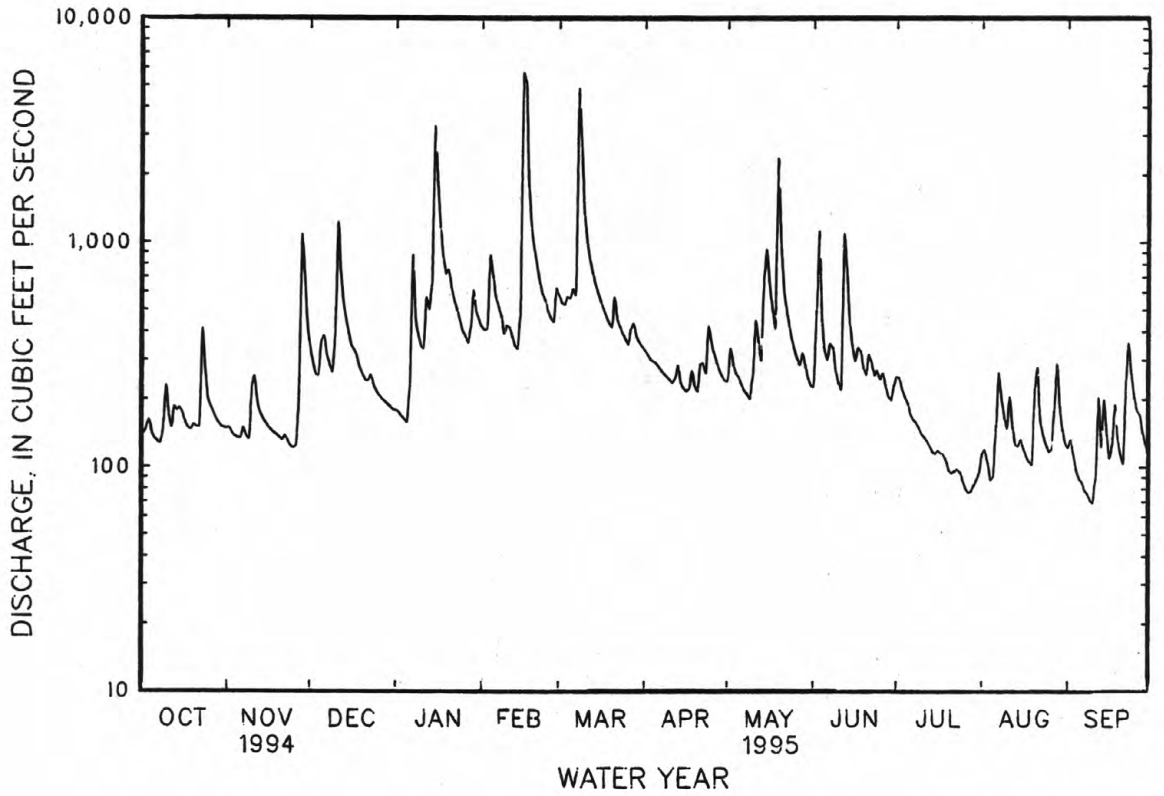
03498500 LITTLE RIVER NEAR MARYVILLE, TN--Continued

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

MEAN	202	343	641	790	957	1021	743	487	362	318	259	182
MAX	830	1160	1679	1792	2254	2517	1701	1782	1261	1391	867	1019
(WY)	1973	1958	1962	1974	1957	1994	1994	1984	1989	1971	1971	1989
MIN	50.7	65.4	103	121	308	385	224	208	86.1	100	78.1	55.6
(WY)	1988	1988	1966	1981	1954	1988	1986	1986	1988	1952	1987	1954

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1951 - 1995	
ANNUAL TOTAL	302349		138027			
ANNUAL MEAN	828		378		524	
HIGHEST ANNUAL MEAN					862	1994
LOWEST ANNUAL MEAN					220	1988
HIGHEST DAILY MEAN	23100	Mar 28	5760	Feb 16	23100	Mar 28 1994
LOWEST DAILY MEAN	122	Nov 25	69	Sep 10	43	Oct 19 1987
ANNUAL SEVEN-DAY MINIMUM	129	Nov 20	80	Sep 5	45	Oct 14 1987
INSTANTANEOUS PEAK FLOW			10500	Feb 16	a42100	Mar 28 1994
INSTANTANEOUS PEAK STAGE			15.20	Feb 16	27.95	Mar 28 1994
INSTANTANEOUS LOW FLOW			66	Sep 10	32	Aug 27 1956
ANNUAL RUNOFF (CFSM)	3.08		1.41		1.95	
ANNUAL RUNOFF (INCHES)	41.81		19.09		26.44	
10 PERCENT EXCEEDS	1580		637		1040	
50 PERCENT EXCEEDS	417		251		313	
90 PERCENT EXCEEDS	152		117		101	

a Extended above 14,800 ft³/s on the basis of a contracted opening measurement and road overflow computations.



TENNESSEE RIVER BASIN

03498850 LITTLE RIVER NEAR ALCOA, TN

LOCATION.--Lat 35°48'32", long 83°55'36", Blount County, Hydrologic Unit 06010201, at Singleton Bend on left bank, 3.0 mi northeast of Alcoa, and at mile 9.7.

DRAINAGE AREA.--300 mi².

PERIOD OF RECORD.--October 1986 to current year, discharge for gage height 14.7 and below only.

GAGE.--Water-stage recorder. Datum of gage is 814.22 ft above sea level.

REMARKS.--No estimated daily discharge. Records good. Diurnal fluctuations at low flow caused by small mills above station. The town of Maryville diverts an average of about 4.0 ft³/s (2.6 MGD) for municipal supply 7.6 mi upstream from gage and the town of Alcoa diverts about 17.2 ft³/s (11.1 MGD) at the gage. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,680 ft³/s, Feb. 17, gage height, 13.50 ft; minimum 53 ft³/s, Sept. 11.

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	138	142	376	187	457	649	364	247	241	241	96	115
2	138	137	318	183	446	589	350	347	808	238	120	124
3	140	134	279	181	442	572	329	307	1360	217	97	114
4	158	138	266	181	925	630	325	272	560	196	90	97
5	136	128	354	167	776	611	317	258	369	187	88	90
6	129	122	438	155	633	677	307	240	326	169	85	89
7	126	132	349	984	559	640	295	224	393	154	350	81
8	129	129	308	536	511	4480	281	215	372	149	233	70
9	136	121	282	421	423	3700	279	204	294	141	195	74
10	221	186	320	368	469	1660	265	261	252	134	157	71
11	174	247	1360	346	446	1180	259	444	223	129	236	67
12	143	184	798	600	412	971	255	397	1320	125	178	208
13	171	163	595	548	367	839	309	305	920	118	138	134
14	176	146	492	619	356	739	259	635	517	107	121	191
15	173	139	420	3600	455	679	238	1110	374	102	109	155
16	168	134	358	2360	4750	610	231	703	298	113	99	116
17	148	137	352	1350	5850	564	236	542	332	116	86	120
18	139	136	336	958	2230	530	280	440	335	106	86	197
19	139	126	296	794	1380	490	259	2930	278	105	81	143
20	146	125	272	836	1060	467	232	1220	261	100	129	120
21	142	118	259	679	882	636	278	721	299	93	342	109
22	143	122	254	608	744	515	321	561	284	92	167	178
23	394	120	276	538	666	469	276	469	250	90	131	431
24	276	112	248	489	615	438	441	401	265	93	105	298
25	197	111	235	450	545	410	395	354	239	87	98	233
26	178	115	220	428	506	397	345	317	249	73	99	200
27	170	180	220	392	482	419	315	300	236	66	138	192
28	157	1110	205	433	669	508	286	398	201	72	297	160
29	149	859	199	682	---	414	267	303	191	82	200	140
30	144	472	200	542	---	392	247	251	215	87	148	127
31	132	---	187	496	---	373	---	240	---	89	125	---
TOTAL	5110	6225	11072	21111	28056	26248	8841	15616	12262	3871	4624	4444
MEAN	165	207	357	681	1002	847	295	504	409	125	149	148
MAX	394	1110	1360	3600	5850	4480	441	2930	1360	241	350	431
MIN	126	111	187	155	356	373	231	204	191	66	81	67

TENNESSEE RIVER BASIN

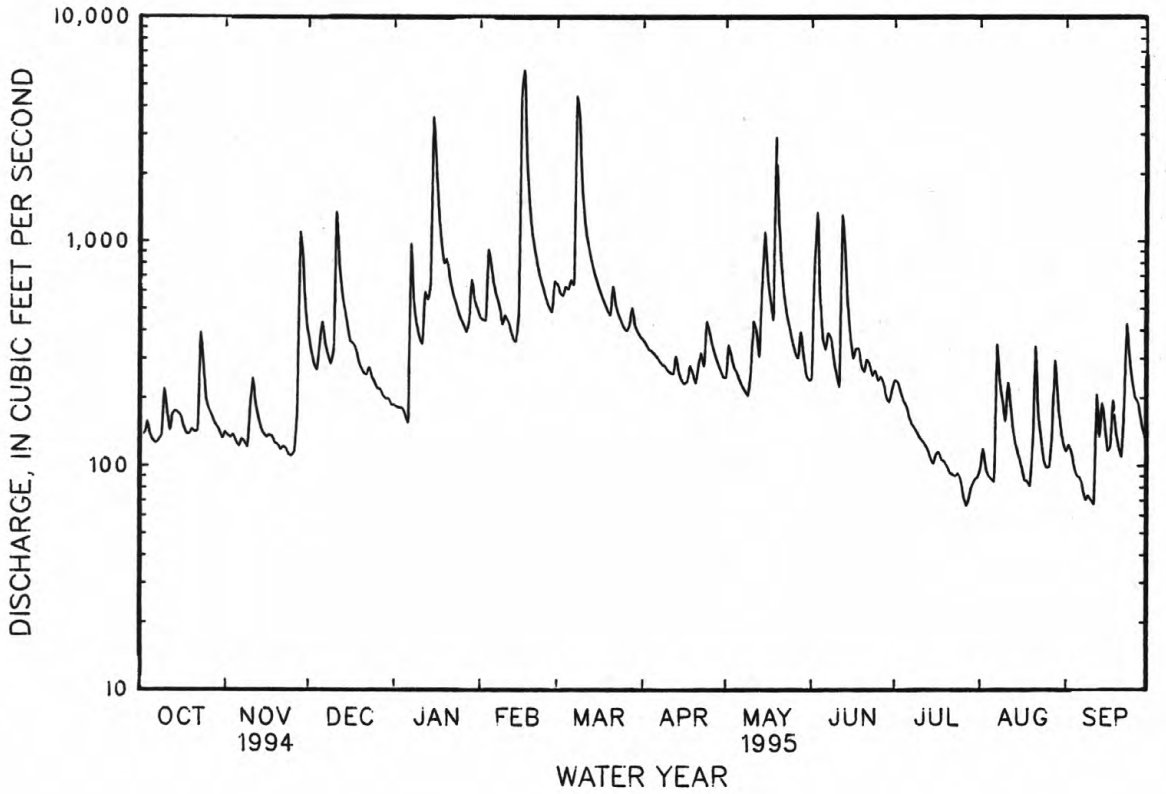
03498850 LITTLE RIVER NEAR ALCOA, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1995, BY WATER YEAR (WY)

MEAN	207	301	719	875	1093	1189	733	488	441	296	241	256
MAX	779	783	1624	1391	1980	2764	2008	989	1335	775	586	1123
(WY)	1990	1990	1992	1990	1994	1994	1994	1989	1989	1989	1994	1989
MIN	43.4	60.6	176	432	435	403	295	199	73.6	106	69.0	64.1
(WY)	1988	1988	1988	1988	1988	1988	1995	1988	1988	1988	1987	1987

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1987 - 1995		
ANNUAL TOTAL	334937		147480				
ANNUAL MEAN	918		404		567		
HIGHEST ANNUAL MEAN					953		1994
LOWEST ANNUAL MEAN					220		1988
HIGHEST DAILY MEAN	28000	Mar 28	5850	Feb 17	e28000	Mar 28	1994
LOWEST DAILY MEAN	111	Nov 25	66	Jul 27	28	Jul 10	1988
ANNUAL SEVEN-DAY MINIMUM	118	Nov 20	77	Sep 5	35	Oct 14	1987
INSTANTANEOUS PEAK FLOW			8680	Feb 17	NOT DETERMINED	Mar 28	1944
INSTANTANEOUS PEAK STAGE			13.50	Feb 17	25.63	Mar 28	1994
INSTANTANEOUS LOW FLOW			53	Sep 11	23	Jul 10	1988
10 PERCENT EXCEEDS	1770		690		1150		
50 PERCENT EXCEEDS	459		259		332		
90 PERCENT EXCEEDS	144		108		87		

e Estimated



TENNESSEE RIVER BASIN

03528000 CLINCH RIVER ABOVE TAZEWELL, TN

LOCATION.--Lat 36°25'30", long 83°23'54", Claiborne County, Hydrologic Unit 06010205, on right bank 0.4 mi upstream from Grissom Island, 4.6 mi downstream from Big War Creek, 10 mi east of Tazewell, and at mile 159.8.

DRAINAGE AREA.--1,474 mi².

PERIOD OF RECORD.--October 1918 to current year. Published as "near Lone Mountain" October 1918 to September 1927; as "near Tazewell" August 1927 to December 1936; and as "above Tazewell" July 1935 to current year. Prior to April 1919, monthly discharge only, published in WSP 1306. Gage-height record "near Tazewell" January 1937 to July 1941.

REVISED RECORDS.--WSP 803: Drainage area at site "near Tazewell". WSP 1306: Drainage area at site "near Lone Mountain". WSP 1336: 1928.

GAGE.--Data collection platform. Datum of gage is 1,060.7 ft above sea level. April 1, 1919, to Sept. 30, 1927, nonrecording gage on railroad bridge 23.3 mi downstream at datum 102.7 ft lower. Aug. 8, 1927, to July 16, 1941, water-stage recorder at site 8.0 mi downstream at datum 47.2 ft lower. Water-stage recorder at present site and datum since July 29, 1935.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in February 1862 reached a stage of about 24 ft, present site and datum, from information by local resident; discharge, about 66,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 14,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Jan. 16	1830	*22,000	*12.51	May 29	1500	14,700	9.80
Feb. 17	1000	16,800	10.61				

Minimum discharge, 145 ft³/s, Sept. 15.

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	313	306	790	410	3730	5300	1320	1070	1080	879	310	180
2	296	300	619	402	3130	4800	1250	2210	1440	921	338	175
3	280	290	527	401	2770	3700	1190	3510	3180	932	423	174
4	272	285	480	387	4160	3170	1120	3130	4690	1160	349	168
5	264	289	486	365	6810	2940	1060	2470	3530	992	276	172
6	255	290	557	379	5770	3530	1010	2050	2890	802	253	169
7	251	298	643	1890	4100	4270	967	1770	2240	681	243	165
8	243	289	646	4220	3190	6970	922	1540	1780	592	256	160
9	245	276	631	3470	2590	12400	887	1380	1490	552	290	155
10	251	275	656	2350	2130	9080	860	2370	1260	536	269	159
11	246	271	2210	1770	1970	6710	824	2530	1100	534	268	159
12	247	271	2700	2040	1800	6040	805	2700	1030	483	375	157
13	257	271	1990	2230	1580	6180	835	3060	1150	452	383	150
14	276	273	1570	2030	1390	5790	868	10100	1250	424	312	148
15	285	271	1210	7330	2970	4980	838	14200	1210	399	286	146
16	281	271	986	20800	10100	4100	779	10800	1020	375	261	151
17	272	263	854	18300	16200	3400	747	6160	896	381	230	166
18	264	255	766	9090	12100	2860	736	4140	815	454	211	197
19	269	248	695	4780	7020	2460	710	3310	735	411	218	236
20	300	244	636	3750	4920	2180	696	4350	707	409	231	237
21	311	237	589	3880	3910	3070	770	4360	705	392	207	267
22	306	240	583	3870	3360	4370	1030	3070	907	351	278	311
23	322	246	612	3060	2880	3690	1280	2380	880	331	375	308
24	456	246	581	2500	2500	3020	1760	1930	810	321	290	319
25	640	258	553	2120	2210	2560	2270	1620	863	317	234	344
26	711	269	528	1820	1980	2210	2040	1410	936	313	211	363
27	610	362	498	1610	1820	1990	1690	1360	975	301	197	363
28	474	863	473	1550	2080	1870	1440	1640	944	314	190	371
29	397	1240	454	2160	---	1700	1250	1320	793	358	181	374
30	349	1070	436	3830	---	1550	1140	1350	745	399	181	363
31	325	---	422	4370	---	1420	---	1240	---	341	178	---
TOTAL	10268	10567	25381	117164	119170	128310	33094	104530	42051	16107	8304	6807
MEAN	331	352	819	3779	4256	4139	1103	3372	1402	520	268	227
MAX	711	1240	2700	20800	16200	12400	2270	14200	4690	1160	423	374
MIN	243	237	422	365	1390	1420	696	1070	705	301	178	146
CFSM	.22	.24	.56	2.56	2.89	2.81	.75	2.29	.95	.35	.18	.15
IN.	.26	.27	.64	2.96	3.01	3.24	.84	2.64	1.06	.41	.21	.17

TENNESSEE RIVER BASIN

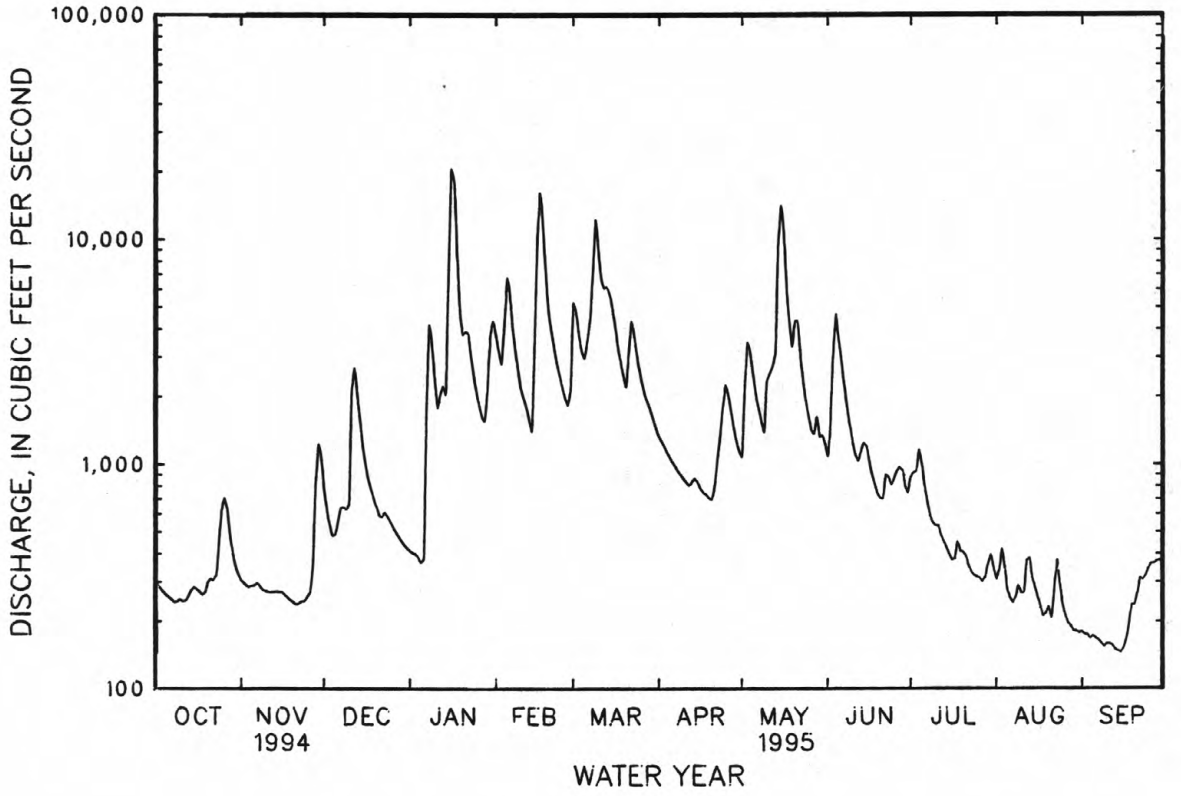
03528000 CLINCH RIVER ABOVE TAZEWELL, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 1995, BY WATER YEAR (WY)

MEAN	670	1107	2360	3455	4168	4282	3056	2283	1278	964	858	540
MAX	2871	4794	9107	9500	9426	11950	8860	6382	3865	3251	4411	2939
(WY)	1990	1978	1927	1937	1957	1963	1977	1929	1989	1938	1942	1989
MIN	145	159	217	285	571	990	711	547	301	239	169	136
(WY)	1964	1940	1940	1940	1941	1988	1986	1941	1988	1988	1925	1955

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1919 - 1995	
ANNUAL TOTAL	984395		621753			
ANNUAL MEAN	2697		1703		2076	
HIGHEST ANNUAL MEAN					3269	1927
LOWEST ANNUAL MEAN					850	1941
HIGHEST DAILY MEAN	40800	Feb 12	20800	Jan 16	83300	Apr 5 1977
LOWEST DAILY MEAN	237	Nov 21	146	Sep 15	108	Sep 11 1925
ANNUAL SEVEN-DAY MINIMUM	245	Nov 18	153	Sep 10	116	Sep 17 1955
INSTANTANEOUS PEAK FLOW			22000	Jan 16	98100	Apr 5 1977
INSTANTANEOUS PEAK STAGE			12.51	Jan 16	a29.32	Apr 5 1977
INSTANTANEOUS LOW FLOW			145	Sep 15	108	Sep 11 1925
ANNUAL RUNOFF (CFSM)	1.83		1.16		1.41	
ANNUAL RUNOFF (INCHES)	24.84		15.69		19.13	
10 PERCENT EXCEEDS	6000		4100		4660	
50 PERCENT EXCEEDS	914		779		1110	
90 PERCENT EXCEEDS	287		244		270	

a From floodmarks.



TENNESSEE RIVER BASIN

03536320 WHITEOAK CREEK NEAR MELTON HILL, TN

LOCATION.--Lat 35°55'56", long 84°18'20", Roane County, Hydrologic unit 06010207, on right bank 1.8 mi upstream from Melton Branch, 5.5 mi southwest of Oak Ridge, and at mile 3.4.

DRAINAGE AREA.--1.31 mi².

PERIOD OF RECORD.--April 1987 to September 1995 (discontinued).

REVISED RECORD.--WDR TN-90-1: 1988, 1989 (M).

GAGE.--Water-stage recorder. Datum of gage is 807.57 ft above sea level.

REMARKS.--No estimated daily discharges.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 9	2200	*85	*1.95				

No flow Sept. 9.

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	.05	.07	.14	.08	1.6	1.7	.11	1.9	.13	.04	.10	.04
2	.05	.05	.11	.07	1.3	1.5	.10	.96	.25	.03	.03	.02
3	.05	.05	.10	.07	1.1	1.5	.10	.65	.08	.02	.02	.01
4	.04	.05	.69	.07	.93	1.2	.10	.42	.06	.02	.02	.01
5	.04	.04	.92	.06	.55	2.5	.09	.20	.05	.02	.03	.01
6	.04	.06	.28	6.0	.31	2.1	.09	.10	.05	.01	.04	.01
7	.05	.05	.18	3.9	.23	2.0	.09	.08	.15	.01	.19	.01
8	.05	.05	.14	2.3	.18	20	.08	.08	.05	.01	.56	.01
9	1.5	.05	.11	1.5	.16	7.5	.08	6.7	.04	.01	.06	.00
10	.19	.89	5.0	.93	.19	3.8	.07	8.6	.29	.03	.33	.01
11	.09	.06	2.0	2.9	.16	2.3	.07	7.5	.29	.02	.09	.02
12	.16	.05	1.1	2.3	.14	1.7	.43	3.0	.27	.01	.03	.01
13	.19	.06	.57	1.7	.13	1.4	.12	1.9	.08	.01	.03	.83
14	.09	.06	.18	15	.13	1.1	.09	4.6	.05	.01	.02	.09
15	.07	.05	.13	25	5.1	.90	.08	2.4	.04	.01	.02	.04
16	.06	.05	.22	11	18	.75	.08	1.8	.04	.01	.01	.60
17	.06	.05	.27	5.1	8.3	.52	.37	1.4	.03	.04	.01	.22
18	.06	.05	.15	3.0	4.6	.33	.14	3.2	.03	.02	.01	.07
19	.38	.05	.12	2.6	3.0	.21	.09	4.4	.07	.01	.01	.04
20	.13	.04	.11	1.9	2.3	1.2	.20	2.1	.04	.01	.35	.03
21	.08	.06	.10	1.4	1.8	1.7	2.0	1.6	.07	.03	.05	.12
22	.13	.05	.21	1.0	1.2	1.5	.50	1.1	.04	.16	.02	.65
23	.13	.05	.12	.72	1.0	1.4	.55	.81	.03	.05	.02	.13
24	.07	.04	.10	.37	.68	1.1	.34	.51	.03	.02	.01	.07
25	.07	.04	.09	.18	.35	.85	.18	.28	.44	.01	.01	.05
26	.07	.07	.08	.16	.19	.67	.13	.13	.05	.01	.05	.09
27	.06	2.4	.08	.15	1.6	.66	.11	.09	.03	.03	.03	.04
28	.06	7.1	.08	4.8	2.3	.41	.10	.13	.03	.14	.01	.03
29	.05	.97	.07	3.3	---	.29	.09	.07	.02	.40	.01	.02
30	.05	.28	.07	2.7	---	.21	.10	.07	.20	.09	.01	.02
31	.06	---	.14	2.0	---	.14	---	.07	---	.19	.01	---
TOTAL	4.18	12.94	13.66	102.26	57.53	63.14	6.68	56.85	3.03	1.48	2.19	3.30
MEAN	.13	.43	.44	3.30	2.05	2.04	.22	1.83	.10	.048	.071	.11
MAX	1.5	7.1	5.0	25	18	20	2.0	8.6	.44	.40	.56	.83
MIN	.04	.04	.07	.06	.13	.14	.07	.07	.02	.01	.01	.00
CFSM	.10	.33	.34	2.52	1.57	1.55	.17	1.40	.08	.04	.05	.08
IN.	.12	.37	.39	2.90	1.63	1.79	.19	1.61	.09	.04	.06	.09

TENNESSEE RIVER BASIN

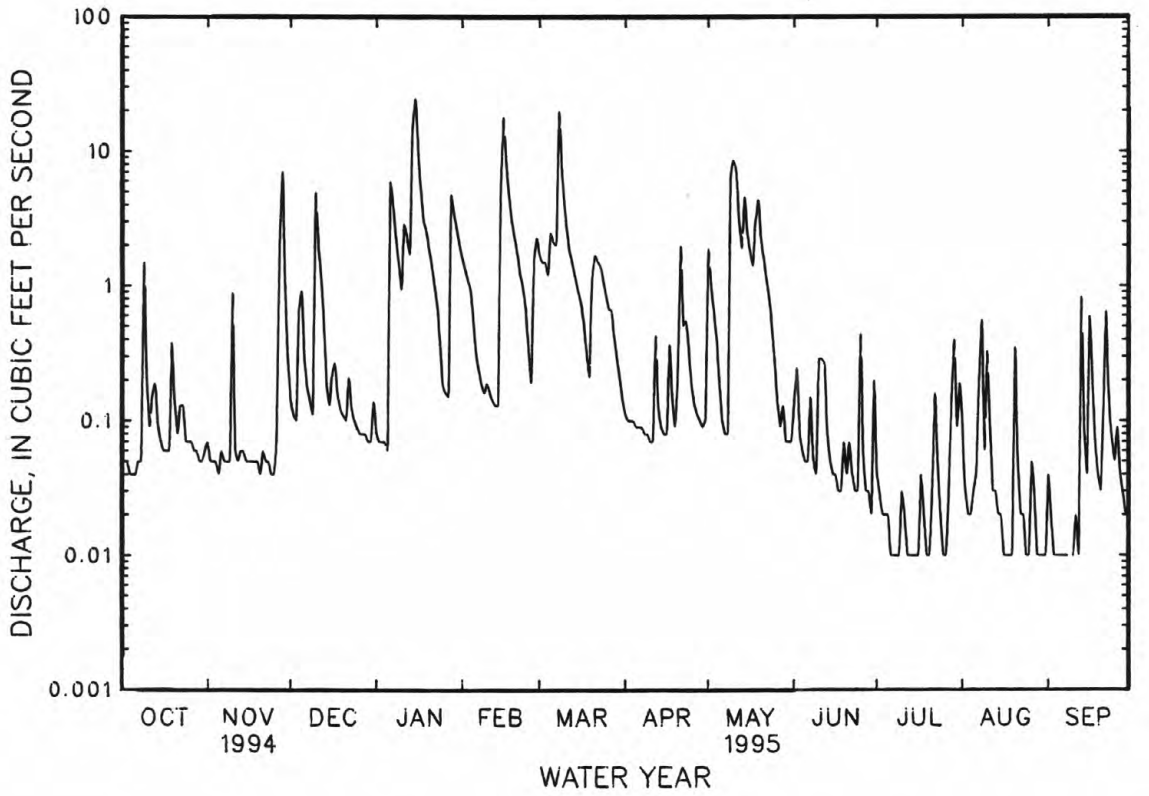
03536320 WHITEOAK CREEK NEAR MELTON HILL, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1995, BY WATER YEAR (WY)

MEAN	.35	.70	2.53	2.61	3.86	3.31	1.72	.80	.96	.41	.33	.41
MAX	1.87	2.63	7.72	4.67	9.25	7.71	7.92	2.27	3.93	1.13	1.77	2.36
(WY)	1990	1990	1991	1989	1994	1994	1994	1990	1989	1989	1990	1989
MIN	.058	.13	.22	1.44	.56	1.26	.22	.12	.034	.048	.047	.10
(WY)	1988	1988	1988	1988	1988	1988	1995	1988	1988	1995	1987	1990

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1987 - 1995	
ANNUAL TOTAL	887.39		327.24			
ANNUAL MEAN	2.43		.90		1.52	
HIGHEST ANNUAL MEAN					2.57	1994
LOWEST ANNUAL MEAN					.42	1988
HIGHEST DAILY MEAN	86	Mar 27	25	Jan 15	86	Mar 27 1994
LOWEST DAILY MEAN	.03	Sep 10	.00	Sep 9	.00	Sep 9 1995
ANNUAL SEVEN-DAY MINIMUM	.04	Sep 7	.01	Sep 3	.01	Sep 3 1995
INSTANTANEOUS PEAK FLOW			85	May 9	a327	Aug 9 1990
INSTANTANEOUS PEAK STAGE			1.95	May 9	4.12	Aug 9 1990
INSTANTANEOUS LOW FLOW			b.00	Sep 9	b.00	Jun 25 1988
ANNUAL RUNOFF (CFSM)	1.86		.68		1.16	
ANNUAL RUNOFF (INCHES)	25.20		9.29		15.74	
10 PERCENT EXCEEDS	5.0		2.3		3.1	
50 PERCENT EXCEEDS	.18		.10		.18	
90 PERCENT EXCEEDS	.05		.02		.04	

a From rating curve extended above 80 ft³/s.
b Also occurred July 9, 10, 11, 1988; Sept. 9, 1995.



TENNESSEE RIVER BASIN

03536380 WHITEOAK CREEK NEAR WHEAT, TN

LOCATION.--Lat 35°55'30", long 84°18'52", Roane County, Hydrologic Unit 06010207, on left bank, 1.1 mi upstream from Melton Branch, 6.2 mi southwest of Oak Ridge, and at mile 2.7.

DRAINAGE AREA.--2.10 mi².

PERIOD OF RECORD.--December 1986 to September 1995 (discontinued).

REVISED RECORD.--WDR TN-90-1: 1988-89 (M).

GAGE.--Water-stage recorder and parshall flume. Datum of gage is 775.44 ft above sea level.

REMARKS.--Records good below 75 ft³/s, fair above. Flow regulated by Oak Ridge National Laboratory.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 160 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 9	2215	*145	*4.03				

Minimum discharge, 1.9 ft³/s, Oct. 7, 8, 9, Nov. 16, 17, 18, 19, 20, 21, 24, 25, 26, gage height, 0.31 ft; minimum daily, 1.9 ft³/s, Oct. 8, Nov. 19, 20.

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	2.1	2.2	3.5	2.4	6.3	6.8	3.3	8.1	3.1	e2.3	3.0	2.6
2	2.0	2.1	3.2	2.3	5.8	6.0	3.2	5.4	3.7	e2.2	2.5	2.4
3	2.1	2.1	2.9	2.3	6.0	6.1	3.2	4.3	2.8	e2.2	2.5	2.2
4	2.1	2.2	4.4	2.3	5.4	5.4	3.1	3.8	2.7	e2.3	2.5	2.1
5	2.2	2.1	5.5	2.3	4.5	8.6	3.1	3.5	2.6	e2.3	2.5	2.1
6	2.1	2.1	3.8	18	4.3	7.7	3.1	3.3	2.6	e2.2	2.5	2.1
7	2.0	2.1	3.5	12	4.2	7.0	3.0	3.1	3.1	e2.2	3.2	2.1
8	1.9	2.1	3.2	7.6	4.0	44	2.9	3.0	2.6	e2.2	4.4	2.1
9	6.8	2.0	2.9	5.7	3.8	18	2.9	20	2.6	e2.3	2.8	2.1
10	2.8	5.3	15	4.7	3.7	12	2.8	23	4.4	e2.4	4.0	2.1
11	2.3	2.4	7.5	9.6	3.6	8.6	2.8	21	3.6	e2.3	2.8	2.4
12	2.6	2.2	5.3	8.1	3.4	7.0	4.1	11	3.4	e2.2	2.5	2.3
13	2.6	2.1	4.3	6.3	3.2	6.1	2.8	6.9	2.7	e2.1	2.5	e5.0
14	2.3	2.1	3.7	33	3.2	5.4	2.6	14	2.6	e2.0	2.5	e2.5
15	2.1	2.1	3.5	45	15	5.0	2.6	8.8	2.5	e2.1	2.5	e2.3
16	2.1	2.0	3.6	22	35	4.6	2.5	7.2	2.5	e2.0	2.5	e4.0
17	2.1	2.0	3.6	13	17	4.2	3.7	6.0	2.4	e2.1	2.5	e3.0
18	2.1	2.0	3.1	9.5	11	3.8	2.8	11	2.4	e2.2	2.4	e2.5
19	3.1	1.9	3.0	9.1	8.5	3.7	2.6	15	2.4	e2.1	2.3	e2.4
20	2.4	1.9	2.8	7.2	7.1	6.7	3.1	8.0	2.3	e2.2	4.7	e2.4
21	2.2	2.0	2.6	6.0	6.2	7.0	8.1	6.3	2.4	2.3	2.6	e2.6
22	2.3	2.0	3.0	5.2	5.3	5.6	3.7	5.3	2.4	3.1	2.4	e4.0
23	2.4	2.0	2.7	4.8	4.9	5.4	4.3	4.5	2.3	2.5	2.3	e2.5
24	2.2	2.0	2.6	4.3	4.4	4.8	3.7	3.9	2.3	2.3	2.2	e2.2
25	2.1	2.0	2.6	4.0	3.9	4.4	3.4	3.7	3.3	2.3	2.2	e2.3
26	2.1	2.1	2.5	3.8	3.7	4.1	3.2	3.5	2.4	2.2	2.4	e2.4
27	2.1	9.2	2.4	3.7	7.4	4.5	3.1	3.3	2.3	2.6	2.3	e2.2
28	2.1	21	2.4	16	8.5	3.8	3.0	3.4	2.3	3.2	2.2	e2.3
29	2.1	5.3	2.3	11	---	3.7	2.8	3.1	2.3	3.5	2.2	e2.0
30	2.1	3.9	2.3	8.9	---	3.6	2.7	3.0	e3.5	2.8	2.3	e2.1
31	2.1	---	2.6	7.3	---	3.5	---	3.0	---	4.0	2.4	---
TOTAL	73.6	96.5	116.3	297.4	199.3	227.1	98.2	229.4	82.5	74.7	82.6	75.3
MEAN	2.37	3.22	3.75	9.59	7.12	7.33	3.27	7.40	2.75	2.41	2.66	2.51
MAX	6.8	21	15	45	35	44	8.1	23	4.4	4.0	4.7	5.0
MIN	1.9	1.9	2.3	2.3	3.2	3.5	2.5	3.0	2.3	2.0	2.2	2.0

e Estimated

TENNESSEE RIVER BASIN

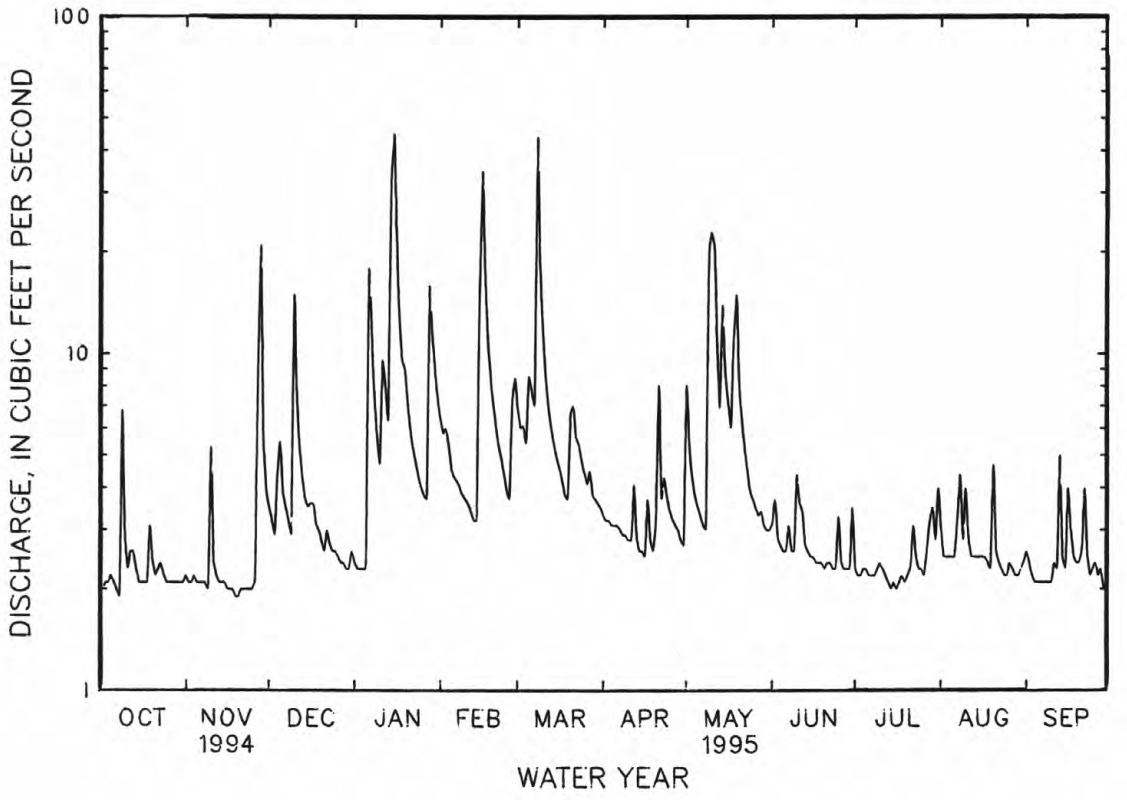
03536380 WHITEOAK CREEK NEAR WHEAT, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1995, BY WATER YEAR (WY)

MEAN	3.06	4.28	7.61	8.43	10.0	9.24	6.42	4.70	4.56	3.73	3.25	3.30
MAX	6.46	8.65	15.7	12.0	17.8	15.9	16.3	8.24	12.0	6.18	6.15	7.90
(WY)	1990	1990	1991	1989	1994	1994	1994	1990	1989	1989	1990	1989
MIN	2.11	2.87	3.33	5.94	4.71	5.59	3.27	2.52	2.50	2.24	2.42	2.39
(WY)	1994	1994	1988	1988	1988	1988	1995	1992	1993	1993	1993	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1987 - 1995	
ANNUAL TOTAL	2506.6		1652.9			
ANNUAL MEAN	6.87		4.53		5.84	
HIGHEST ANNUAL MEAN					7.29	1989
LOWEST ANNUAL MEAN					3.77	1988
HIGHEST DAILY MEAN	126	Mar 27	45	Jan 15	126	Mar 27 1994
LOWEST DAILY MEAN	a1.9	Aug 13	b1.9	Oct 8	1.6	Sep 6 1993
ANNUAL SEVEN-DAY MINIMUM	2.0	Nov 16	2.0	Nov 16	1.8	Oct 2 1993
INSTANTANEOUS PEAK FLOW			c145	May 9	c384	Dec 23 1990
INSTANTANEOUS PEAK STAGE			4.03	May 9	d6.09	Dec 23 1990
INSTANTANEOUS LOW FLOW			e1.9	Oct 7	1.5	Sep 7 1993
10 PERCENT EXCEEDS	13		8.1		10	
50 PERCENT EXCEEDS	3.1		2.9		3.5	
90 PERCENT EXCEEDS	2.1		2.1		2.2	

a Also occurred Oct. 8, Nov. 19, 20.
b Also occurred Nov. 19, 20.
c From rating curve extended above 75 ft^3/s based on theoretical parshall flume rating.
d From flood marks.
e Also occurred Oct. 8, 9, Nov. 16, 17, 18, 19, 20, 21, 24, 25, 26.



TENNESSEE RIVER BASIN

03536440 NORTHWEST TRIBUTARY NEAR OAK RIDGE, TN

LOCATION.--Lat 35°55'18", long 84°19'13", Roane County, Hydrologic Unit 06010207, on left bank 750 ft upstream of Lagoon Road, 6 mi southwest of Oak Ridge, and at mile 0.2.

DRAINAGE AREA.--0.67 mi².

PERIOD OF RECORD.--May 1987 to September 1995 (discontinued).

REVISED RECORD.--WDR TN-89-1: 1987-88 (M).

GAGE.--Data logger and concrete V-notch weir. Datum of gage is 774.36 ft above sea level.

REMARKS.--Records fair. Flow regulated at times by Oak Ridge National Laboratory.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 10	2330	*50	*2.38	No other peaks greater than base discharge.			

Minimum discharge, 0.04 ft³/s, Oct. 19; minimum gage height, 0.15 ft, Sept. 6.

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	.14	.12	e.40	e.16	e.80	1.2	.17	1.3	e.20	e.16	e.20	.17
2	.14	.08	e.30	e.16	.60	.81	.16	.82	e.32	e.14	e.16	.11
3	.14	.08	e.25	e.15	.56	.69	.15	.34	e.20	e.14	e.15	.10
4	.16	.10	e.40	e.15	e.50	.55	.17	.23	e.15	e.14	e.15	.10
5	.13	.07	e.60	e.14	e.47	1.3	.14	.21	e.15	e.14	.13	.10
6	.11	.07	e.50	e2.8	e.43	1.2	.15	.17	e.15	e.13	.15	.09
7	.14	.06	.33	e2.0	e.40	.92	.15	.28	e.25	e.13	.21	.09
8	.09	.09	.25	e1.3	e.35	12	.13	.17	e.16	e.12	.28	.12
9	.55	.07	.24	e.85	e.30	3.8	.13	4.0	e.15	e.12	.14	.10
10	.22	.40	3.7	e.65	e.32	e1.9	.13	4.5	e.45	e.13	.22	.11
11	.15	.15	1.6	1.7	e.28	e1.2	.15	5.3	e.27	e.13	.16	.11
12	.17	.11	e.80	1.6	e.26	.87	.25	1.4	e.25	e.12	.12	.12
13	.16	.09	e.50	.95	e.25	.66	.17	.79	e.18	e.12	.12	.51
14	.15	.12	e.40	9.3	.25	.53	.13	3.1	e.16	e.12	.12	.15
15	.09	.13	.30	12	3.4	.41	.13	1.5	e.15	e.12	.16	.15
16	.08	.10	.29	4.9	11	.34	.12	.89	e.15	e.12	.12	.30
17	.08	.10	.31	2.1	3.9	.31	.29	.62	e.14	e.15	.11	.23
18	.10	.11	.26	1.3	2.0	.26	.19	e.40	e.14	e.13	.11	.11
19	.17	.08	.25	1.1	1.3	.24	.16	e2.0	e.16	e.11	.11	.11
20	.12	.08	e.20	.89	.97	.52	.22	e.90	e.14	e.11	.58	.10
21	.12	.11	e.20	.64	.72	1.1	1.8	e.60	e.14	e.15	.14	.13
22	.10	.08	.26	e.50	e.55	.48	.45	e.50	e.14	e.22	.15	.38
23	.12	e.10	.21	.41	.45	.37	.42	e.45	e.14	e.14	.12	.13
24	.10	e.08	.20	e.33	.42	.33	.33	e.37	e.13	e.12	.11	.10
25	.10	e.08	.18	e.30	e.35	.26	.28	e.30	e.17	e.10	.14	.10
26	.08	e.09	e.17	e.30	.29	.24	.27	e.25	e.16	e.09	.14	.14
27	.08	e1.0	e.16	e.30	1.0	.29	.20	e.22	e.16	e.09	.14	.11
28	.11	e4.0	e.16	3.1	2.0	.22	.24	e.22	e.16	e.20	.13	.10
29	.08	e1.0	.16	2.2	---	.23	.17	e.20	e.16	e.14	.13	.12
30	.08	e.50	.17	1.3	---	.19	.17	e.17	e.20	e.12	.14	.10
31	.09	---	e.17	e.90	---	.20	---	e.16	---	e.30	.12	---
TOTAL	4.15	9.25	13.92	54.48	34.12	33.62	7.62	32.36	5.48	4.25	4.96	4.39
MEAN	.13	.31	.45	1.76	1.22	1.08	.25	1.04	.18	.14	.16	.15
MAX	.55	4.0	3.7	12	11	12	1.8	5.3	.45	.30	.58	.51
MIN	.08	.06	.16	.14	.25	.19	.12	.16	.13	.09	.11	.09

e Estimated

TENNESSEE RIVER BASIN

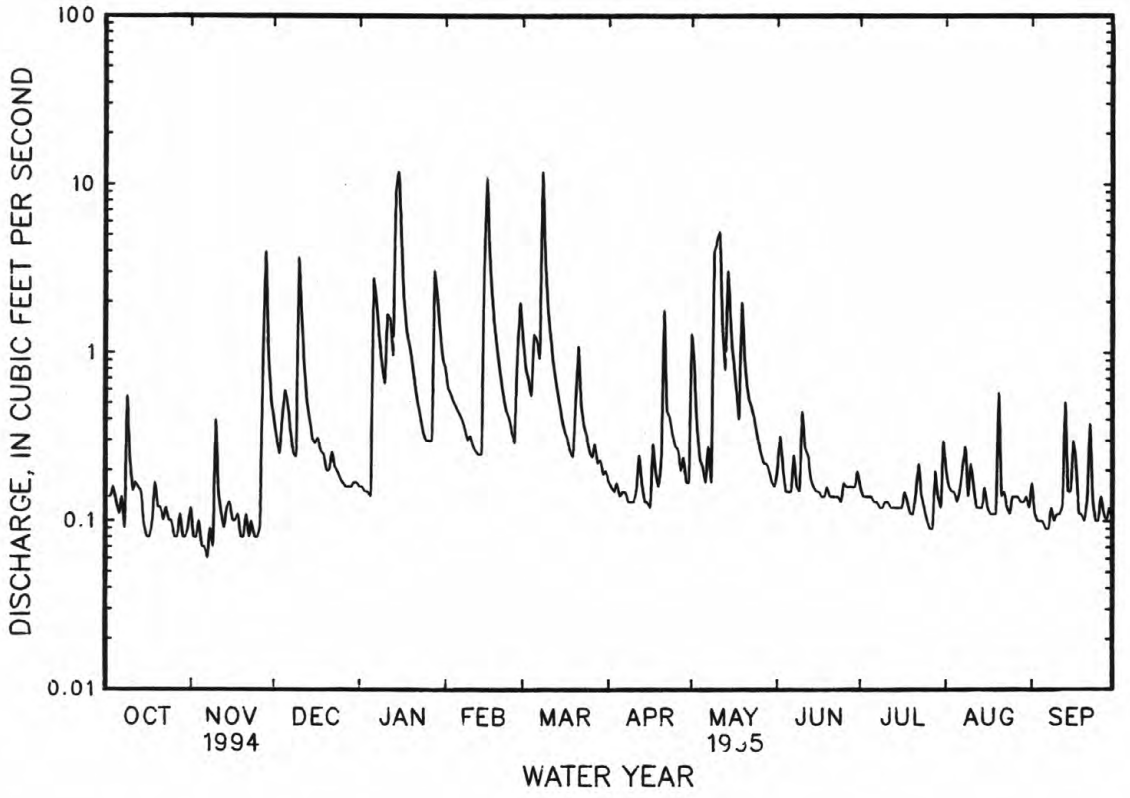
03536440 NORTHWEST TRIBUTARY NEAR OAK RIDGE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1995, BY WATER YEAR (WY)

MEAN	.49	.76	1.71	1.78	2.34	2.12	1.22	.80	.78	.62	.47	.54
MAX	1.33	1.78	3.82	3.07	4.34	4.38	3.85	1.95	3.09	1.24	.77	1.51
(WY)	1990	1990	1991	1989	1994	1994	1994	1990	1989	1989	1990	1989
MIN	.13	.31	.45	1.09	.98	1.08	.25	.30	.18	.14	.16	.15
(WY)	1995	1995	1995	1991	1988	1995	1995	1993	1995	1995	1995	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1987 - 1995	
ANNUAL TOTAL	516.30		208.60			
ANNUAL MEAN	1.41		.57		1.13	
HIGHEST ANNUAL MEAN					1.62	1989
LOWEST ANNUAL MEAN					.57	1995
HIGHEST DAILY MEAN	45	Mar 27	a12	Jan 15	45	Mar 27 1994
LOWEST DAILY MEAN	.06	Nov 7	.06	Nov 7	.06	Nov 7 1994
ANNUAL SEVEN-DAY MINIMUM	.08	Nov 3	.08	Nov 3	.08	Nov 3 1994
INSTANTANEOUS PEAK FLOW			b50	May 10	b182	Dec 23 1990
INSTANTANEOUS PEAK STAGE			2.38	May 10	3.73	Dec 23 1990
INSTANTANEOUS LOW FLOW			.04	Oct 19	.04	Oct 19 1994
10 PERCENT EXCEEDS	2.9		1.2		2.0	
50 PERCENT EXCEEDS	.36		.17		.59	
90 PERCENT EXCEEDS	.12		.10		.22	

a Also occurred Mar. 8.
b From rating curve extended above 22 ft³/s based on theoretical weir formula.



TENNESSEE RIVER BASIN

03536450 FIRST CREEK NEAR OAK RIDGE, TN

LOCATION.--Lat 35°55'21", long 84°19'10", Roane County, Hydrologic Unit 06010207, on left bank, 5.9 mi southwest of Oak Ridge, and at mile 0.1.

DRAINAGE AREA.--0.33 mi².

PERIOD OF RECORD.--February 1987 to current year.

REVISED RECORDS.--WDR TN-89-1: 1987-88 (M).

GAGE.--Water-stage recorder and concrete weir. Datum of gage is 772.78 ft above sea level.

REMARKS.--No estimated daily discharge. Records fair. Flow regulated at times by Oak Ridge National Laboratory. Periodic observations of water temperature are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 25 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 9	1830	27	2.41	May 10	2315	*66	*2.92
May 9	2145	30	2.46	May 18	2145	37	2.60

Minimum discharge, 0.20 ft³/s, July 13, Sept. 26, 27, 28, 29, 30.

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	.30	.30	.61	.28	1.2	1.4	.52	1.5	.44	.29	.39	.31
2	.30	.29	.46	.27	1.1	1.3	.50	1.0	.54	.28	.30	.24
3	.30	.29	.40	.26	1.1	1.3	.48	.77	.41	.28	.27	.23
4	.30	.27	.73	.26	.90	1.1	.47	.67	.39	.28	.27	.23
5	.29	.27	1.0	.25	.73	1.8	.44	.55	.39	.28	.28	.24
6	.29	.27	.72	3.2	.66	1.6	.43	.46	.38	.28	.29	.24
7	.29	.26	.64	2.3	.65	1.5	.43	.41	.46	.27	.40	.24
8	.29	.26	.52	1.6	.61	7.8	.41	.39	.38	.25	.55	.25
9	1.1	.42	.43	1.2	.54	3.7	.40	3.6	.36	.25	.29	.24
10	.37	.73	3.0	.94	.56	2.4	.41	4.0	.75	.28	.56	.24
11	.31	.32	1.6	1.8	.56	2.0	.40	3.8	.52	.28	.34	.26
12	.34	.29	1.2	1.6	.49	1.7	.58	2.1	.49	.29	.30	.25
13	.34	.27	.90	1.3	.44	1.4	.38	1.6	.35	.26	.28	1.3
14	.31	.26	.66	5.9	.41	1.3	.38	3.1	.33	.30	.28	.34
15	.30	.26	.51	7.2	2.8	1.1	.36	1.9	.32	.30	.28	.28
16	.29	.26	.49	3.8	5.9	1.0	.36	1.6	.32	.30	.27	.78
17	.29	.26	.48	2.4	3.4	.88	.58	1.3	.31	.33	.27	.47
18	.29	.26	.40	1.9	2.4	.78	.39	2.5	.30	.31	.27	.29
19	.40	.25	.38	1.7	2.0	.72	.38	2.8	.33	.29	.26	.26
20	.31	.25	.35	1.4	1.7	1.2	.47	1.7	.31	.29	1.4	.25
21	.30	.26	.34	1.1	1.4	1.3	1.7	1.4	.31	.31	.35	.30
22	.32	.25	.38	.89	1.1	1.1	.72	1.2	.31	.46	.30	.75
23	.31	.25	.34	.75	1.0	1.1	.76	.97	.31	.32	.29	.29
24	.30	.25	.32	.66	.84	.96	.60	.74	.30	.31	.28	.24
25	.29	.25	.30	.58	.70	.83	.51	.65	.30	.30	.27	.23
26	.29	.27	.29	.53	.63	.74	.46	.59	.30	.30	.29	.23
27	.30	1.7	.29	.51	1.4	.82	.43	.54	.29	.33	.27	.21
28	.29	4.1	.28	2.8	1.8	.70	.41	.54	.29	.44	.27	.20
29	.29	1.2	.28	1.9	---	.64	.39	.48	.29	.34	.28	.21
30	.28	.89	.27	1.7	---	.59	.39	.45	.39	.31	.27	.21
31	.30	---	.30	1.4	---	.55	---	.43	---	.68	.27	---
TOTAL	10.28	15.46	18.87	52.38	37.02	45.31	15.14	43.74	11.17	9.79	10.69	9.81
MEAN	.33	.52	.61	1.69	1.32	1.46	.50	1.41	.37	.32	.34	.33
MAX	1.1	4.1	3.0	7.2	5.9	7.8	1.7	4.0	.75	.68	1.4	1.3
MIN	.28	.25	.27	.25	.41	.55	.36	.39	.29	.25	.26	.20

TENNESSEE RIVER BASIN

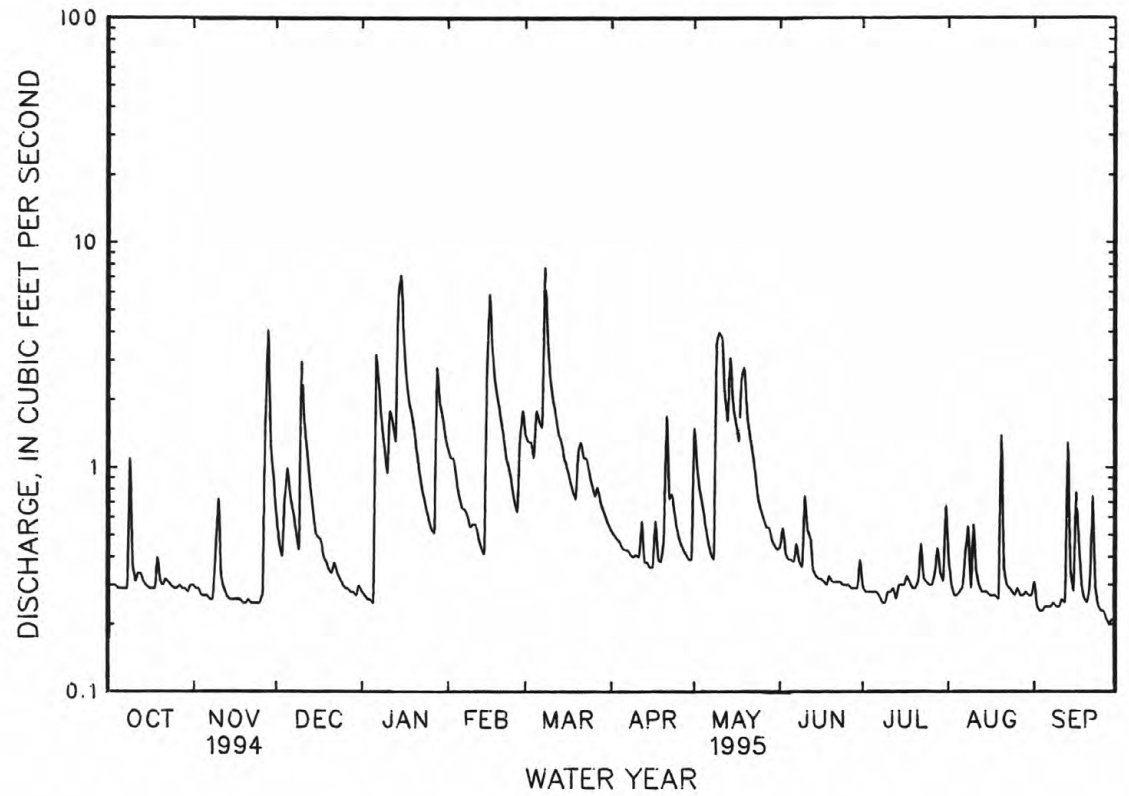
03536450 FIRST CREEK NEAR OAK RIDGE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1995, BY WATER YEAR (WY)

MEAN	.37	.62	1.33	1.59	1.79	1.74	1.17	.74	.61	.49	.38	.39
MAX	1.01	1.44	2.90	2.33	3.38	3.21	3.14	1.65	2.14	.94	.56	.96
(WY)	1990	1990	1991	1989	1994	1994	1994	1990	1989	1989	1990	1989
MIN	.20	.23	.28	.83	.75	.97	.50	.32	.32	.27	.27	.22
(WY)	1988	1988	1988	1988	1988	1988	1995	1992	1988	1993	1992	1990

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1987 - 1995	
ANNUAL TOTAL	464.16		279.66			
ANNUAL MEAN	1.27		.77		.95	
HIGHEST ANNUAL MEAN					1.33	1994
LOWEST ANNUAL MEAN					.49	1988
HIGHEST DAILY MEAN	24	Mar 27	7.8	Mar 8	26	Dec 23 1990
LOWEST DAILY MEAN	.23	Jun 23	.20	Sep 28	.14	Dec 2 1987
ANNUAL SEVEN-DAY MINIMUM	.25	Sep 7	.22	Sep 24	.15	Dec 1 1987
INSTANTANEOUS PEAK FLOW			a66	May 10	a295	Dec 23 1990
INSTANTANEOUS PEAK STAGE			2.92	May 10	4.10	Dec 23 1990
INSTANTANEOUS LOW FLOW			b.20	Jul 13	.09	Sep 13 1991
10 PERCENT EXCEEDS	2.8		1.7		1.9	
50 PERCENT EXCEEDS	.49		.39		.47	
90 PERCENT EXCEEDS	.28		.26		.23	

a From rating curve extended above 10 ft³/s on the basis of theoretical weir formula.
b Also occurred Sept. 26, 27, 28, 29, 30.



TENNESSEE RIVER BASIN

03536550 WHITEOAK CREEK BELOW MELTON VALLEY DRIVE NEAR OAK RIDGE, TN

LOCATION.--Lat 35°55'10", long 84°19'02", Roane County, Hydrologic Unit 06010207, on right bank 200 ft downstream of bridge on Melton Valley Drive at Oak Ridge National Laboratory, 6.7 mi southwest of Oak Ridge, and at mile 2.2.

DRAINAGE AREA.--3.28 mi².

PERIOD OF RECORD.--April 1985 to current year.

GAGE.--Water-stage recorder, crest-stage gage, data collection platform, and sharp-crested weir. Datum of gage is 766.35 ft above sea level.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Oak Ridge National Laboratory. The control structure's weir plate and dam were modified June 14, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s, and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 10	2345	*203	*4.84	No other peak greater than base discharge.			

Minimum discharge, 3.1 ft³/s, July 1, gage height, 2.51 ft.

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	4.6	4.9	6.6	4.9	12	12	6.4	14	8.2	5.3	6.6	5.4
2	4.6	4.8	6.2	4.8	11	11	6.0	11	8.5	4.9	5.5	4.8
3	4.7	4.8	6.0	4.8	11	11	7.2	8.2	7.0	4.9	5.4	4.6
4	4.6	4.8	8.7	4.6	9.7	9.8	6.8	7.4	6.7	4.9	5.6	4.7
5	4.6	4.9	11	4.5	8.3	15	6.5	6.7	6.5	5.1	5.3	4.9
6	4.4	4.4	7.9	27	7.9	14	6.8	6.0	6.6	5.0	5.6	4.8
7	4.5	4.4	7.1	21	8.3	13	6.7	6.1	7.4	5.2	6.2	4.9
8	4.2	4.5	6.2	14	7.6	65	5.8	6.0	6.8	5.2	7.9	5.0
9	12	4.9	6.1	11	7.1	31	6.3	29	6.7	5.3	5.6	4.6
10	6.0	9.4	25	9.5	7.2	20	6.2	34	8.7	5.4	7.5	4.7
11	5.3	5.2	14	17	6.7	16	5.9	35	7.3	5.3	6.4	5.1
12	5.6	4.7	10	16	6.6	13	7.8	18	6.9	5.2	6.0	4.9
13	6.1	4.8	8.4	12	6.0	11	5.9	13	5.3	5.1	5.5	11
14	4.9	4.8	7.4	48	6.1	10	5.4	26	5.1	4.9	5.4	5.7
15	5.1	4.6	6.8	66	25	9.1	5.6	17	5.2	5.0	5.4	5.2
16	4.8	4.8	7.0	35	55	8.7	5.5	14	5.5	4.8	5.2	8.4
17	4.7	4.4	6.9	21	30	8.4	7.6	12	5.4	5.1	5.4	6.8
18	4.7	4.4	6.3	16	20	7.3	6.3	17	5.0	5.2	5.1	5.1
19	6.5	4.5	6.1	15	15	7.0	5.7	28	5.3	5.0	5.2	4.9
20	5.1	4.1	5.8	13	13	11	6.9	15	5.4	5.1	10	4.9
21	4.9	4.6	5.4	10	11	13	16	12	5.0	5.2	5.7	5.3
22	5.0	4.3	6.0	9.1	9.4	9.9	7.7	10	5.3	6.0	5.0	8.4
23	5.4	4.2	5.4	8.6	9.2	9.8	8.6	9.2	5.5	5.4	5.0	5.2
24	4.8	4.3	5.2	7.6	7.9	9.3	7.3	7.9	5.2	5.1	4.9	4.7
25	4.7	4.4	5.0	7.3	7.6	8.2	6.7	7.7	6.6	4.7	5.1	5.0
26	4.7	4.6	5.0	6.9	7.0	7.4	6.2	7.6	5.4	4.8	5.8	5.1
27	4.7	16	5.0	7.0	13	8.5	6.0	7.6	5.3	5.5	5.3	4.7
28	4.8	35	5.1	26	16	7.4	6.2	8.0	5.2	6.1	4.8	4.9
29	4.4	11	5.4	19	---	7.0	5.6	7.3	5.2	6.2	5.1	4.2
30	4.5	8.1	5.0	15	---	7.1	5.7	7.7	6.9	5.5	5.0	4.3
31	4.8	---	5.3	13	---	6.7	---	7.7	---	7.7	5.2	---
TOTAL	159.7	194.6	227.3	494.6	354.6	397.6	203.3	416.1	185.1	164.1	177.7	162.2
MEAN	5.15	6.49	7.33	16.0	12.7	12.8	6.78	13.4	6.17	5.29	5.73	5.41
MAX	12	35	25	66	55	65	16	35	8.7	7.7	10	11
MIN	4.2	4.1	5.0	4.5	6.0	6.7	5.4	6.0	5.0	4.7	4.8	4.2

TENNESSEE RIVER BASIN

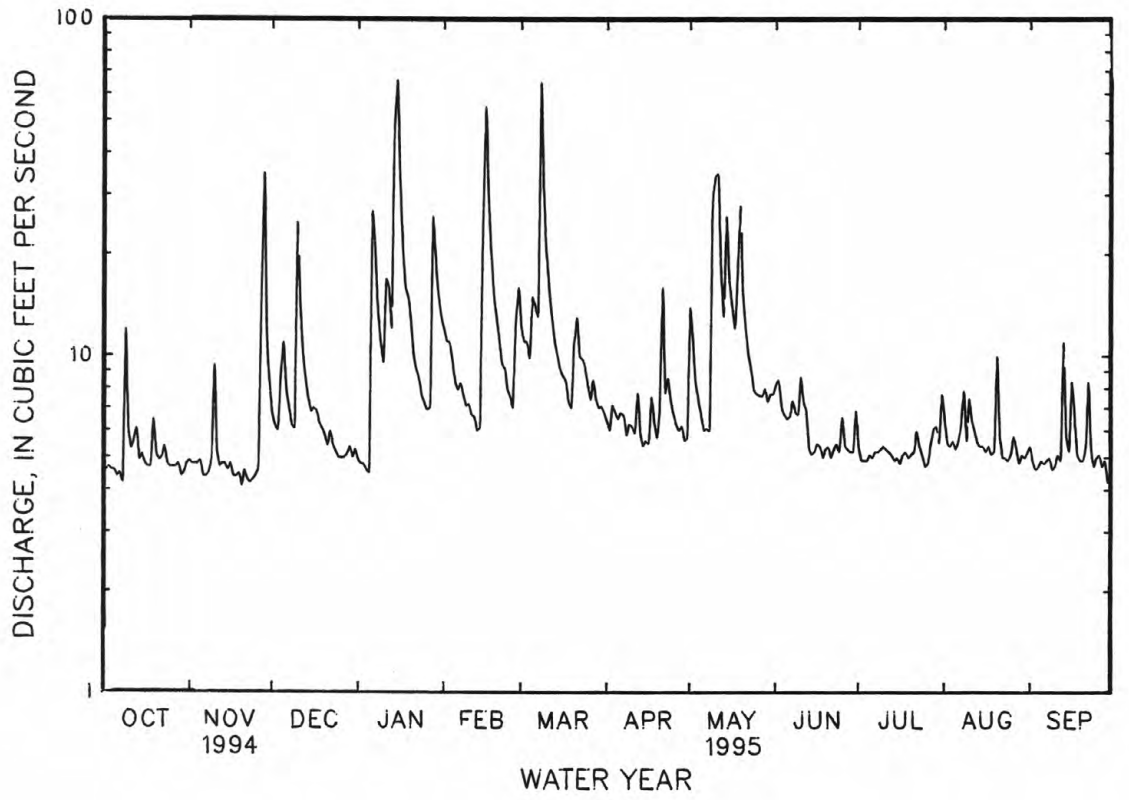
03536550 WHITEOAK CREEK BELOW MELTON VALLEY DRIVE NEAR OAK RIDGE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1995, BY WATER YEAR (WY)

MEAN	6.33	8.20	12.6	14.0	16.7	15.5	11.0	8.80	8.64	7.61	7.45	6.77
MAX	11.2	14.8	25.4	19.8	29.1	26.7	27.1	15.5	21.9	11.9	13.6	13.9
(WY)	1990	1990	1991	1989	1994	1994	1994	1990	1989	1989	1985	1989
MIN	4.66	5.94	6.39	7.10	8.84	10.4	6.78	6.09	5.76	5.29	5.62	5.25
(WY)	1994	1988	1988	1986	1988	1988	1995	1992	1992	1995	1992	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1985 - 1995		
ANNUAL TOTAL	4549.5		3136.9				
ANNUAL MEAN	12.5		8.59		10.2		
HIGHEST ANNUAL MEAN					12.9		1994
LOWEST ANNUAL MEAN					7.47		1988
HIGHEST DAILY MEAN	202	Mar 27	66	Jan 15	202	Mar 27	1994
LOWEST DAILY MEAN	4.1	Nov 20	4.1	Nov 20	3.8	Oct 25	1992
ANNUAL SEVEN-DAY MINIMUM	4.3	Nov 18	4.3	Nov 18	4.1	Oct 19	1992
INSTANTANEOUS PEAK FLOW			a203	May 10	a711	Dec 23	1990
INSTANTANEOUS PEAK STAGE			4.84	May 10	6.51	Dec 23	1990
INSTANTANEOUS LOW FLOW			3.1	Jul 1	3.1	Jul 1	1995
10 PERCENT EXCEEDS	24		15		17		
50 PERCENT EXCEEDS	6.8		6.1		7.0		
90 PERCENT EXCEEDS	4.7		4.7		5.1		

a From rating curve extended above 100 ft³/s on the basis of theoretical weir formula.



TENNESSEE RIVER BASIN

03537100 MELTON BRANCH NEAR MELTON HILL, NEAR OAK RIDGE, TN

LOCATION.--Lat 35°54'59", long 84°17'53", Roane County, Hydrologic Unit 06010207, on left bank 1.0 mi southeast of the Oak Ridge National Laboratory, 6.0 mi south of Oak Ridge, and at mile 1.2.

DRAINAGE AREA.--0.52 mi².

PERIOD OF RECORD.--April 1985 to September 1995 (discontinued).

REVISED RECORDS.--WDR TN-91-1: 1986-90.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 784.06 ft above sea level.

REMARKS.--Records fair between 0.2 and 30 ft³/s, and poor above and below.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 30 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 9	2215	*32	*9.16	No other peak greater than base discharge.			

No flow many days.

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	.00	.01	.08	.07	.55	1.2	.17	.69	.01	.00	e.01	e.01
2	.00	.00	.07	.06	.45	.78	.16	.73	.04	.00	.00	.00
3	.00	.00	.06	.06	.48	.72	.13	.30	e.02	.00	.00	.00
4	.00	.00	.18	.05	.49	.60	.13	.20	e.01	.00	.00	.00
5	.00	.01	.70	.05	e.32	1.1	.13	.15	e.01	.00	.00	.00
6	.00	.01	.39	3.0	e.30	1.3	.13	.10	e.01	.00	.00	.00
7	.00	.01	.23	2.8	e.28	.89	.13	.07	e.03	.00	e.03	.00
8	.00	.01	.17	1.1	e.26	10	.12	.05	e.02	.00	e.06	.00
9	.06	.01	.13	.57	e.26	2.3	.10	3.2	e.01	.00	e.02	.00
10	.02	.05	2.6	.39	.24	1.3	.09	3.6	e.04	.00	e.05	.00
11	e.01	.03	1.2	1.0	.24	.91	.07	3.7	e.04	.00	e.01	.00
12	e.01	.02	.49	1.5	.20	.71	.41	.97	e.03	.00	.00	.00
13	.01	.01	.32	.74	.17	.55	.19	.54	e.02	.00	.00	e.08
14	.01	.01	.23	7.5	.17	.45	.13	2.9	e.01	.00	.00	e.01
15	.01	.01	.17	9.0	2.9	.44	.10	1.3	e.01	.00	.00	.00
16	.01	.01	.18	3.0	8.5	.39	.09	.68	.00	.00	.00	e.05
17	.01	.01	.22	1.3	2.4	.33	.22	.48	.00	.00	.00	e.03
18	.01	.01	.17	.78	1.3	.32	.20	1.0	.00	.00	.00	e.01
19	.02	.01	.13	.77	.88	.27	.12	4.4	.00	.00	.00	.00
20	.02	.01	.12	.70	.70	.51	.16	1.1	.00	.00	e.05	.00
21	.02	.01	.10	.48	.51	1.3	1.3	.57	.00	.00	e.01	e.02
22	.01	.01	.13	.42	.44	.63	.45	.36	.00	e.03	.00	e.06
23	.02	.01	.14	.36	.39	.45	.44	.23	.00	.00	.00	e.02
24	.02	.01	.11	.29	.37	.36	.45	.14	.00	.00	.00	e.01
25	.02	.01	.10	.26	.28	.29	.28	.10	.03	.00	.00	.00
26	.01	.01	.10	.22	.27	.27	.20	.08	.00	.00	e.01	e.02
27	.01	.79	.07	.22	.88	.37	.15	.05	.00	.00	.00	.00
28	.01	2.8	.07	2.4	2.1	.28	.12	.06	.00	e.04	.00	.00
29	.01	.37	.07	1.8	---	.22	.09	.04	.00	e.02	.00	.00
30	.00	.14	.06	1.0	---	.21	.09	e.02	e.02	e.01	.00	.00
31	.01	---	.07	.71	---	.17	---	e.01	---	e.05	.00	---
TOTAL	0.34	4.40	8.86	42.60	26.33	29.62	6.55	27.82	0.36	0.15	0.25	0.32
MEAN	.011	.15	.29	1.37	.94	.96	.22	.90	.012	.005	.008	.011
MAX	.06	2.8	2.6	9.0	8.5	10	1.3	4.4	.04	.05	.06	.08
MIN	.00	.00	.06	.05	.17	.17	.07	.01	.00	.00	.00	.00
CFSM	.02	.28	.55	2.64	1.81	1.84	.42	1.73	.02	.01	.02	.02
IN.	.02	.31	.63	3.05	1.88	2.12	.47	1.99	.03	.01	.02	.02

e Estimated

TENNESSEE RIVER BASIN

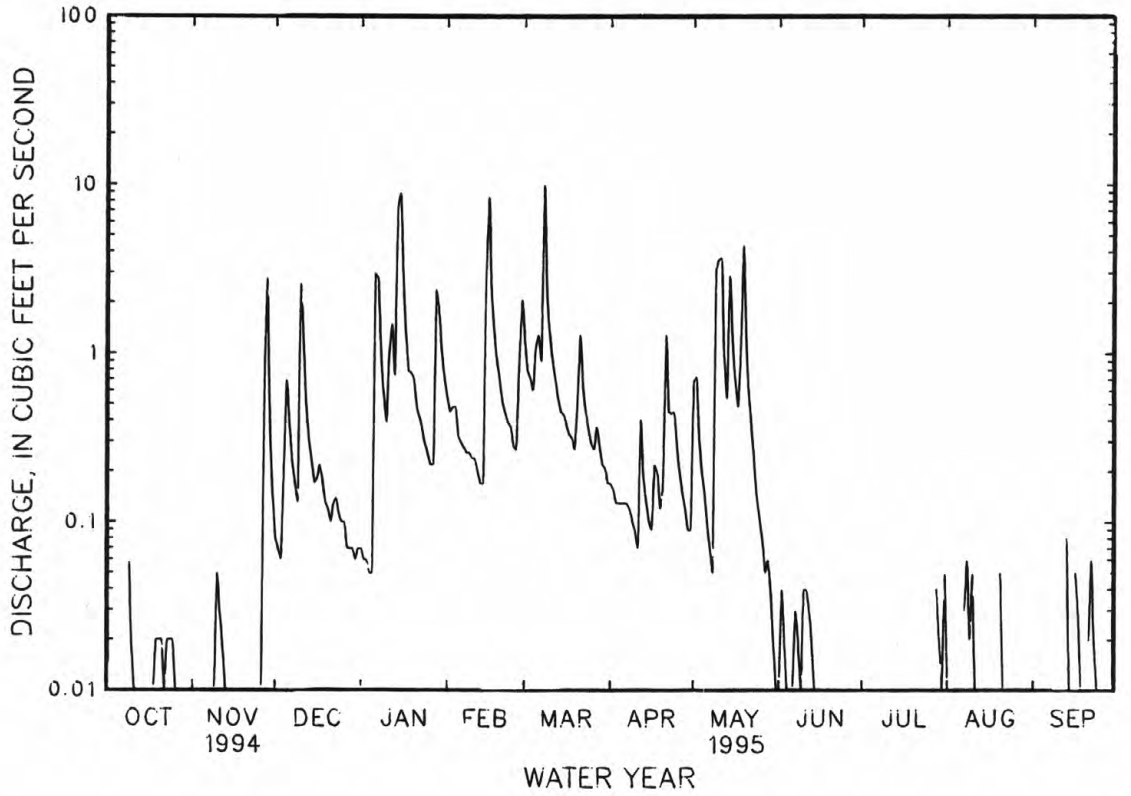
03537100 MELTON BRANCH NEAR MELTON HILL, NEAR OAK RIDGE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1995, BY WATER YEAR (WY)

MEAN	.11	.37	1.11	1.26	1.67	1.46	.75	.38	.26	.11	.11	.086
MAX	.71	1.17	2.94	2.22	3.33	3.10	2.82	1.52	1.44	.41	.87	.86
(WY)	1990	1990	1991	1989	1994	1994	1994	1990	1989	1989	1985	1989
MIN	.000	.000	.039	.31	.44	.73	.15	.045	.000	.003	.000	.000
(WY)	1988	1988	1988	1986	1988	1988	1986	1988	1988	1993	1986	1987

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1985 - 1995	
ANNUAL TOTAL	352.71		147.60			
ANNUAL MEAN	.97		.40		.64	
HIGHEST ANNUAL MEAN					1.05	1994
LOWEST ANNUAL MEAN					.21	1988
HIGHEST DAILY MEAN	33	Mar 27	10	Mar 8	33	Mar 27 1994
LOWEST DAILY MEAN	a.00	Jul 2	a.00	Oct 1	b.00	Jun 5 1985
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 2	.00	Oct 1	.00	Jun 21 1986
INSTANTANEOUS PEAK FLOW			32	May 9	c238	Dec 23 1990
INSTANTANEOUS PEAK STAGE			9.16	May 9	10.64	Dec 23 1990
INSTANTANEOUS LOW FLOW			a.00	Oct 1	b.00	Jun 3 1985
ANNUAL RUNOFF (CFSM)	1.86		.78		1.22	
ANNUAL RUNOFF (INCHES)	25.23		10.56		16.60	
10 PERCENT EXCEEDS	2.1		.98		1.4	
50 PERCENT EXCEEDS	.08		.06		.10	
90 PERCENT EXCEEDS	.00		.00		.00	

a Occurred many days.
b Occurred many days each year.
c From rating curve extended above 30 ft³/s.



TENNESSEE RIVER BASIN

03538231 EAST FORK POPLAR CREEK AT Y-12 AT OAK RIDGE, TN

LOCATION.--Lat 35°59'11", long 84°15'02", Anderson County, Hydrologic Unit 06010207, on the downstream end of culvert, 1.5 mi south of Oak Ridge, and at mile 15.5.

DRAINAGE AREA.--0.81 mi².

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

GAGE.--Water-stage recorder, crest-stage gage, and flume. Datum of gage is 930 ft above sea level, from topographic map.

REMARKS.--Records fair. Flow affected by operations of the Department of Energy Y-12 Plant.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 269 ft³/s, May 9, gage height, 5.22 ft; minimum, 2.7 ft³/s, April 9, 10, 16, 29, gage height, 1.54 ft; minimum daily, 2.8 ft³/s, April 8, 9, 10, 15, 16, 29.

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	4.4	4.2	3.8	3.4	4.2	4.1	2.9	12	3.8	3.2	3.6	3.8
2	4.4	4.0	3.7	3.4	4.2	4.0	2.9	3.8	4.3	3.1	3.3	3.1
3	4.5	4.1	3.6	3.4	5.0	4.5	2.9	3.2	3.3	3.1	3.3	3.0
4	4.5	3.9	6.2	3.4	4.5	3.5	3.0	3.2	3.2	3.1	4.0	3.0
5	4.4	3.9	5.8	3.4	4.2	5.8	3.0	3.2	3.2	3.2	3.5	3.2
6	4.5	4.2	4.0	17	3.9	3.9	2.9	3.0	3.4	3.4	4.7	3.2
7	4.5	4.1	3.9	5.6	3.9	3.6	2.9	3.0	4.8	3.3	3.5	3.1
8	4.1	4.1	3.9	4.2	3.9	23	2.8	3.0	3.4	3.1	7.5	3.1
9	13	3.9	3.8	4.0	3.9	4.7	2.8	26	3.4	3.1	3.6	3.0
10	4.2	8.5	15	3.9	4.0	3.8	2.8	7.5	3.2	3.3	3.4	3.0
11	4.0	3.8	4.8	9.6	3.8	3.5	3.0	5.0	4.5	3.3	3.4	3.1
12	4.4	3.6	4.2	4.8	3.9	3.4	4.6	3.9	4.1	3.3	3.3	3.2
13	4.4	3.5	4.1	4.0	3.8	3.2	3.0	3.8	3.6	3.3	3.3	11
14	4.0	3.5	3.8	24	3.8	3.1	2.9	8.3	3.5	3.4	3.3	3.8
15	3.8	3.6	3.7	18	13	3.1	2.8	4.0	3.4	3.3	3.4	3.5
16	3.9	3.5	4.0	6.7	19	3.0	2.8	4.4	3.4	3.2	3.3	7.8
17	3.9	3.5	4.0	5.0	5.6	3.1	5.6	3.7	3.3	3.5	3.2	8.4
18	4.0	3.7	3.6	4.7	4.5	2.9	3.2	10	3.3	3.7	3.2	3.5
19	6.4	3.7	3.6	5.9	4.2	2.9	3.0	6.8	3.8	3.3	3.2	3.4
20	4.2	3.6	3.5	4.7	4.1	7.5	3.2	3.8	3.4	3.3	10	3.4
21	4.1	3.8	3.5	4.4	4.1	3.8	9.7	3.6	3.9	3.3	3.3	4.9
22	4.3	3.8	4.2	4.2	4.0	3.1	3.1	3.6	3.4	4.4	3.3	6.8
23	4.0	3.7	3.5	4.2	4.1	3.2	4.3	3.6	3.3	3.4	3.1	3.5
24	3.9	3.7	3.4	4.2	3.9	3.2	3.3	3.6	3.1	3.3	3.1	3.3
25	4.0	3.7	3.4	4.0	3.8	3.0	3.2	3.6	3.2	3.3	3.2	3.3
26	3.9	3.8	3.5	3.9	3.7	3.0	3.0	3.5	3.2	3.3	3.2	3.5
27	3.9	12	3.5	3.9	7.5	3.8	3.0	3.4	3.3	3.2	3.1	3.4
28	3.9	18	3.3	14	5.3	3.0	2.9	3.6	3.2	3.5	3.1	3.3
29	4.0	4.4	3.4	5.5	---	3.0	2.8	3.3	3.1	3.1	3.2	3.3
30	3.9	3.9	3.4	5.0	---	3.1	2.9	3.3	4.4	3.3	3.2	3.2
31	4.2	---	3.6	4.4	---	3.0	---	3.5	---	6.0	3.2	---
TOTAL	139.6	141.7	131.7	196.8	143.8	131.8	101.2	160.2	106.4	105.6	115.0	121.1
MEAN	4.50	4.72	4.25	6.35	5.14	4.25	3.37	5.17	3.55	3.41	3.71	4.04
MAX	13	18	15	24	19	23	9.7	26	4.8	6.0	10	11
MIN	3.8	3.5	3.3	3.4	3.7	2.9	2.8	3.0	3.1	3.1	3.1	3.0

TENNESSEE RIVER BASIN

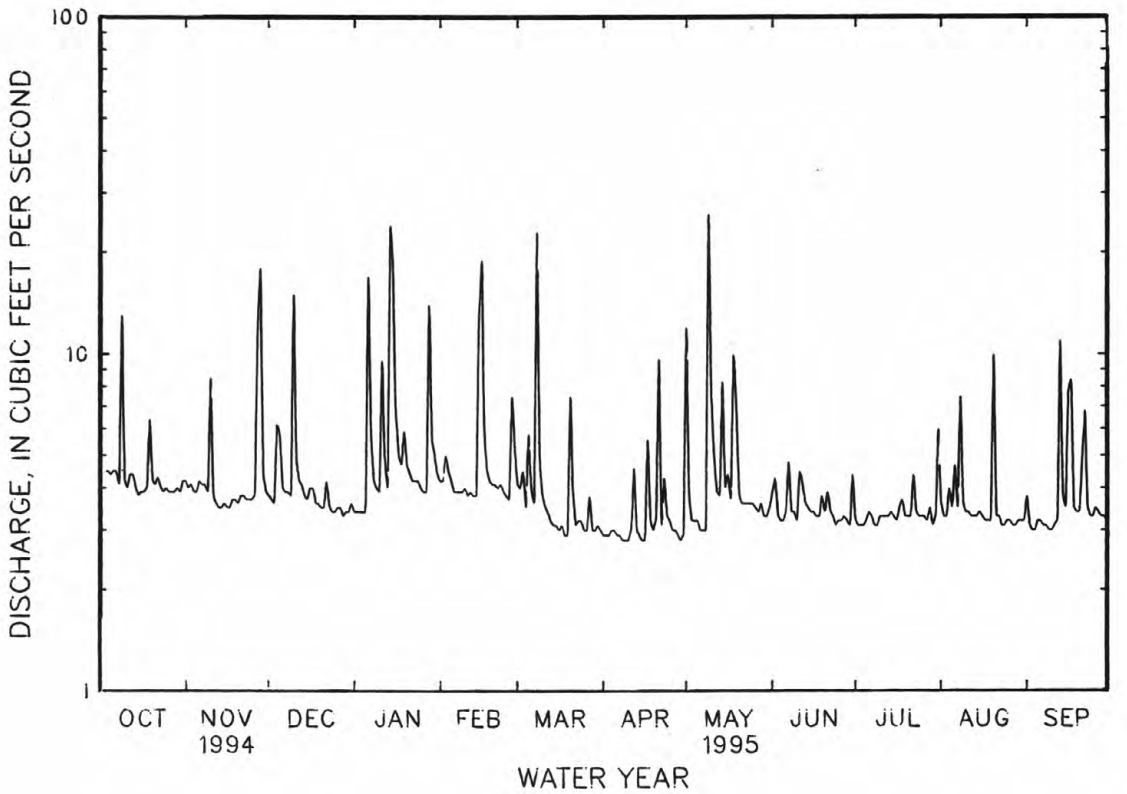
03538231 EAST FORK POPLAR CREEK AT Y-12 AT OAK RIDGE, TN--Continued

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

MEAN	4.58	5.04	6.22	6.45	7.44	7.42	6.75	5.34	5.14	4.88	4.84	4.97
MAX	4.66	5.36	7.80	7.34	11.1	10.5	11.1	5.52	6.98	6.33	5.77	5.55
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1993
MIN	4.50	4.72	4.25	5.65	5.14	4.25	3.37	5.17	3.55	3.41	3.71	4.04
(WY)	1995	1995	1995	1993	1995	1995	1995	1995	1995	1995	1995	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1993 - 1995	
ANNUAL TOTAL	2524.4		1594.9			
ANNUAL MEAN	6.92		4.37		5.83	
HIGHEST ANNUAL MEAN					7.28	1994
LOWEST ANNUAL MEAN					4.37	1995
HIGHEST DAILY MEAN	56	Mar 27	26	May 9	66	Dec 4 1993
LOWEST DAILY MEAN	3.3	Dec 28	a2.8	Apr 8	a2.8	Apr 8 1995
ANNUAL SEVEN-DAY MINIMUM	3.4	Dec 24	2.9	Apr 4	2.9	Apr 4 1995
INSTANTANEOUS PEAK FLOW			b269	May 9	b472	Apr 12 1994
INSTANTANEOUS PEAK STAGE			5.22	May 9	c6.29	Apr 12 1994
INSTANTANEOUS LOW FLOW			d2.7	Apr 9	d2.7	Apr 9 1995
10 PERCENT EXCEEDS	11		5.6		8.7	
50 PERCENT EXCEEDS	5.2		3.6		4.7	
90 PERCENT EXCEEDS	3.9		3.1		3.3	

a Also occurred on April 9, 10, 15, 16, and 29, 1995.
b From rating curve extended above 57 ft^3/s based on a theoretical culvert computation.
c From crest-stage gage.
d Also occurred on April 10, 16, and 29, 1995.



TENNESSEE RIVER BASIN

03538235 EAST FORK POPLAR CREEK AT BEAR CREEK ROAD AT OAK RIDGE, TN

LOCATION.--Lat 35°59'48", long 84°14'25", Anderson County, Hydrologic Unit 06010207, on left bank upstream from bridge on Bear Creek Road, 0.5 mi south of Oak Ridge, and at mile 14.4.

DRAINAGE AREA.--1.69 mi².

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

GAGE.--Water-stage recorder and concrete weir. Datum of gage is 890 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good below 100 ft³/s, fair above. Flow affected by operations of the Department of Energy, Y-12 Plant.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 673 ft³/s, gage height, 5.11 ft, May 9; minimum, 3.3 ft³/s, gage height, 1.21 ft, Sept. 30; minimum daily, 3.3 ft³/s, Sept. 30.

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	4.7	5.2	5.2	4.6	5.7	5.8	4.0	25	5.3	3.9	6.2	5.0
2	4.6	5.0	5.0	4.5	5.6	5.2	3.9	7.6	6.0	3.7	4.0	4.2
3	4.7	5.0	4.8	4.5	6.5	6.2	4.0	4.6	4.1	3.7	4.2	3.6
4	4.9	4.9	7.7	4.5	6.5	5.0	4.1	4.4	3.9	3.7	5.6	3.6
5	4.6	4.8	8.3	4.5	5.3	10	4.1	4.4	4.0	3.8	4.5	4.0
6	4.8	5.1	5.6	30	4.9	6.6	3.9	4.0	4.2	4.2	7.1	3.9
7	4.8	5.0	5.1	8.8	4.9	5.8	3.9	3.9	7.0	4.1	4.6	3.8
8	4.5	5.0	5.0	5.6	4.6	54	3.8	4.0	4.5	3.6	11	3.9
9	17	4.8	4.9	4.9	4.6	10	3.9	74	4.5	3.6	4.8	3.7
10	5.4	12	24	4.7	4.8	7.6	3.9	16	4.1	4.0	4.3	3.8
11	5.0	5.1	6.9	14	4.6	6.4	4.1	11	5.9	4.2	4.3	3.7
12	5.1	4.7	5.6	8.3	4.5	5.7	7.4	6.2	5.9	4.1	4.1	4.1
13	5.6	4.7	5.3	5.7	4.4	5.4	4.2	5.4	4.3	4.0	4.1	17
14	5.1	4.6	5.1	40	4.4	5.1	3.8	13	4.3	4.2	4.1	5.5
15	4.9	4.8	5.0	33	20	4.9	3.7	6.2	4.1	4.0	4.4	4.1
16	4.9	4.6	5.3	13	37	4.7	3.7	6.5	4.1	4.0	4.3	10
17	4.9	4.6	5.5	8.1	9.9	4.9	8.6	5.6	3.9	4.2	4.1	16
18	5.0	4.7	4.9	7.0	7.1	4.4	4.8	12	4.0	4.8	4.0	4.3
19	8.1	4.7	4.8	9.2	6.2	4.3	4.3	18	4.6	4.1	3.9	4.1
20	5.4	4.7	4.8	6.9	5.9	11	4.7	5.9	4.1	3.9	16	3.9
21	5.2	4.9	4.7	5.9	5.5	9.3	17	5.1	5.5	3.9	4.7	6.4
22	5.3	4.9	5.6	5.5	5.3	4.9	4.6	4.9	4.2	4.5	4.5	10
23	5.6	4.7	4.8	5.3	5.2	4.8	6.6	5.0	4.0	4.9	4.2	4.3
24	5.0	4.7	4.6	5.3	5.3	4.7	4.9	4.8	3.7	4.0	3.9	3.7
25	5.1	4.7	4.5	5.1	4.7	4.3	4.6	4.8	4.2	4.1	4.3	3.7
26	4.9	4.8	4.5	4.8	4.4	4.3	4.1	4.7	3.8	4.1	4.1	4.0
27	4.8	18	4.6	4.8	11	6.2	3.9	4.3	4.1	3.9	4.1	3.7
28	4.8	32	4.4	22	9.0	4.4	4.0	4.8	4.0	4.4	3.9	3.6
29	4.9	6.1	4.5	10	---	4.3	3.7	4.3	3.8	3.7	4.2	3.6
30	4.9	5.4	4.6	7.4	---	4.3	4.0	4.2	5.8	3.7	4.2	3.3
31	5.1	---	4.7	6.2	---	4.1	---	4.5	---	7.2	4.2	---
TOTAL	169.6	194.2	180.3	304.1	207.8	228.6	146.2	289.1	135.9	128.2	155.9	158.5
MEAN	5.47	6.47	5.82	9.81	7.42	7.37	4.87	9.33	4.53	4.14	5.03	5.28
MAX	17	32	24	40	37	54	17	74	7.0	7.2	16	17
MIN	4.5	4.6	4.4	4.5	4.4	4.1	3.7	3.9	3.7	3.6	3.9	3.3

TENNESSEE RIVER BASIN

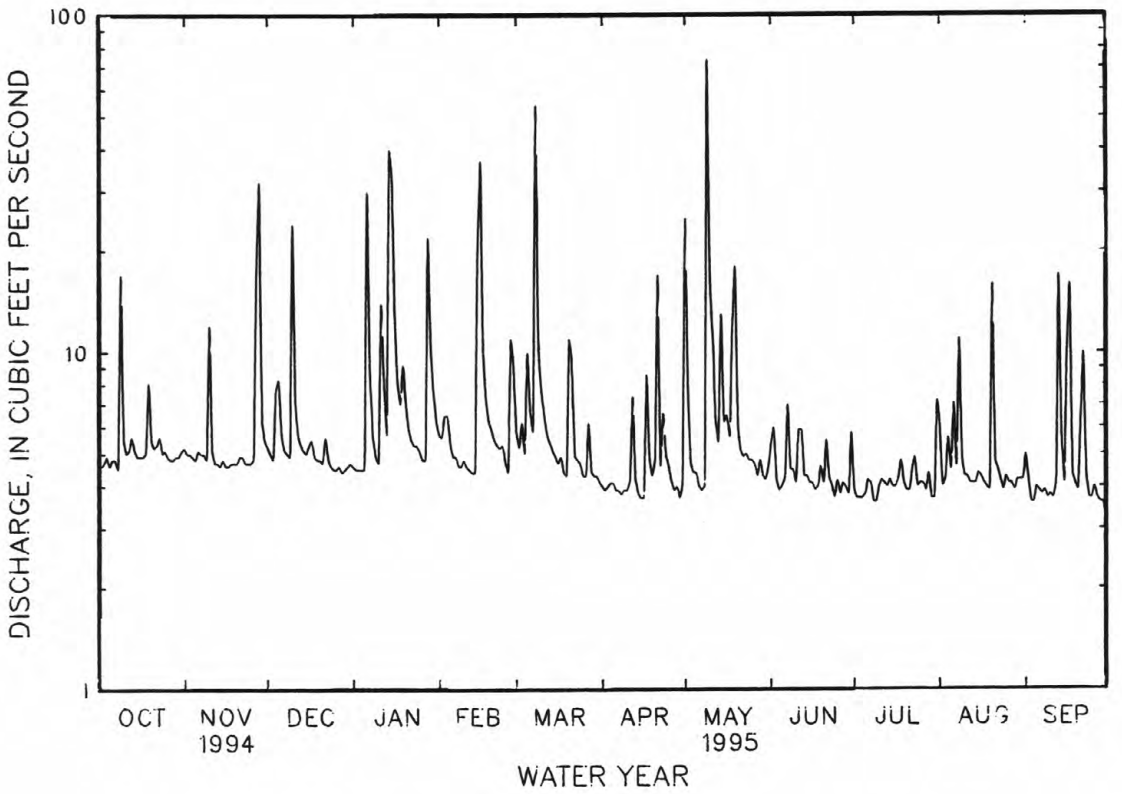
03538235 EAST FORK POPLAR CREEK AT BEAR CREEK ROAD AT OAK RIDGE, TN--Continued

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

MEAN	5.53	6.54	9.15	9.22	11.4	11.0	10.1	7.47	6.80	6.16	6.01	6.10
MAX	5.59	6.61	12.6	10.3	18.1	15.0	17.9	9.33	9.85	8.18	6.53	7.45
(WY)	1994	1994	1994	1994	1994	1994	1994	1995	1994	1994	1994	1993
MIN	5.47	6.47	5.82	7.56	7.42	7.37	4.87	6.04	4.53	4.14	5.03	5.28
(WY)	1995	1995	1995	1993	1995	1995	1995	1994	1995	1995	1995	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1993 - 1995	
ANNUAL TOTAL	3478.3		2298.4			
ANNUAL MEAN	9.53		6.30		8.21	
HIGHEST ANNUAL MEAN					10.1	1994
LOWEST ANNUAL MEAN					6.30	1995
HIGHEST DAILY MEAN	129	Mar 27	74	May 9	163	Dec 4 1993
LOWEST DAILY MEAN	4.2	May 28	3.3	Sep 30	3.3	Sep 30 1995
ANNUAL SEVEN-DAY MINIMUM	4.4	Sep 26	3.7	Sep 24	3.7	Sep 24 1995
INSTANTANEOUS PEAK FLOW			a673	May 9	a1200	Apr 12 1994
INSTANTANEOUS PEAK STAGE			5.11	May 9	6.65	Apr 12 1994
INSTANTANEOUS LOW FLOW			3.3	Sep 30	3.3	Sep 30 1995
10 PERCENT EXCEEDS	15		9.1		12	
50 PERCENT EXCEEDS	5.9		4.7		5.6	
90 PERCENT EXCEEDS	4.7		3.9		4.2	

a From rating curve extended above 102 ft³/s.



TENNESSEE RIVER BASIN

03538256 BEAR CREEK AT BEAR CREEK ROAD NEAR OAK RIDGE, TN

LOCATION.--Lat 35°58'17", long 84°16'49", Anderson County, Hydrologic Unit 06010207, on right bank 2.8 mi southwest of Scarboro Road, 1.5 mi northwest of county line, and at mile 7.4.

DRAINAGE AREA.--0.42 mi².

PERIOD OF RECORD.--February 1993 current year.

GAGE.--Water-stage recorder. Datum of gage is 960 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair, except for Dec. 16 to Jan. 6, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 9	2100	*45	*2.31				

No flow many days.

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	.04	.07	.14	.03	.38	.61	.09	2.3	.14	.02	.14	.00
2	.04	.06	.12	.03	.37	.51	.09	.64	.22	.01	.02	.00
3	.04	.06	.12	.03	.42	.53	.10	.15	.12	.01	.01	.00
4	.03	.06	.44	.03	.46	.47	.10	.11	.06	.01	.01	.00
5	.03	.05	.63	.03	.31	1.1	.10	.10	.04	.01	.01	.00
6	.03	.06	.26	3.0	.26	.80	.11	.13	.04	.01	.08	.00
7	.03	.05	.17	1.2	.27	.63	.12	.11	.18	.01	.04	.00
8	.03	.05	.15	.56	.22	6.4	.13	.10	.06	.00	.46	.00
9	1.7	.06	.13	.47	.19	.88	.16	6.3	.05	.00	.04	.00
10	.21	1.0	2.8	.38	.23	.56	.14	1.8	.04	.00	.03	.00
11	.08	.12	.54	1.4	.29	.42	.13	.92	.09	.01	.02	.00
12	.08	.10	.34	.90	.20	.32	.25	.19	.11	.00	.01	.00
13	.10	.09	.25	.53	.18	.24	.14	.09	.05	.00	.01	.63
14	.08	.09	.17	5.7	.18	.22	.14	.88	.04	.00	.00	.10
15	.07	.09	.15	5.2	2.3	.21	.12	.26	.04	.00	.00	.01
16	.06	.09	.13	1.3	5.4	.19	.12	.16	.04	.00	.00	.32
17	.06	.09	.06	.79	1.1	.18	.41	.11	.04	.00	.00	.94
18	.06	.09	.03	.64	.76	.17	.26	.78	.03	.00	.00	.14
19	.47	.08	.03	.66	.63	.15	.20	1.9	.06	.00	.00	.05
20	.13	.08	.02	.56	.58	.89	.26	.58	.05	.00	.22	.03
21	.09	.09	.02	.42	.55	.71	1.8	.32	.04	.00	.05	.18
22	.09	.08	.04	.36	.52	.23	.26	.20	.04	.07	.01	.70
23	.09	.08	.02	.33	.51	.16	.40	.14	.04	.01	.00	.45
24	.07	.08	.02	.29	.50	.11	.28	.12	.04	.01	.00	.12
25	.07	.08	.03	.27	.47	.10	.30	.12	.05	.00	.00	.09
26	.06	.08	.03	.25	.44	.10	.17	.11	.04	.00	.00	.08
27	.06	2.1	.03	.24	.89	.13	.14	.08	.04	.00	.00	.06
28	.06	4.3	.03	2.4	.92	.10	.11	.11	.04	.02	.00	.08
29	.06	.34	.03	1.0	---	.10	.11	.08	.04	.00	.00	.07
30	.06	.18	.02	.68	---	.09	.12	.10	.06	.00	.00	.07
31	.07	---	.04	.52	---	.10	---	.10	---	.30	.00	---
TOTAL	4.15	9.85	6.99	30.20	19.53	17.41	6.86	19.09	1.93	0.50	1.16	4.12
MEAN	.13	.33	.23	.97	.70	.56	.23	.62	.064	.016	.037	.14
MAX	1.7	4.3	2.8	5.7	5.4	6.4	1.8	6.3	.22	.30	.46	.94
MIN	.03	.05	.02	.03	.18	.09	.09	.08	.03	.00	.00	.00
CFSM	.32	.78	.54	2.32	1.66	1.34	.54	1.47	.15	.04	.09	.33
IN.	.37	.87	.62	2.67	1.73	1.54	.61	1.69	.17	.04	.10	.36

TENNESSEE RIVER BASIN

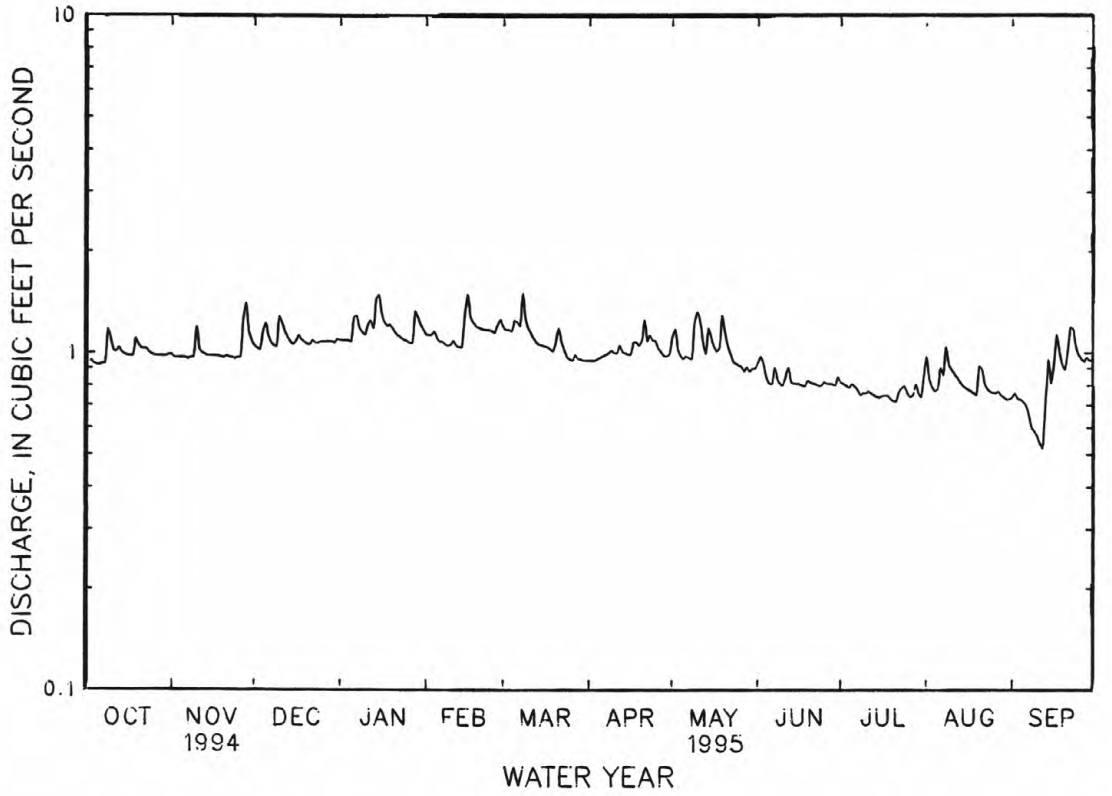
03538256 BEAR CREEK AT BEAR CREEK ROAD NEAR OAK RIDGE, TN--Continued

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

MEAN	.11	.36	.74	1.02	1.05	1.01	.85	.34	.25	.12	.16	.19
MAX	.13	.39	1.25	1.06	1.84	1.31	1.71	.62	.62	.27	.32	.28
(WY)	1995	1994	1994	1994	1994	1994	1994	1995	1994	1994	1994	1993
MIN	.086	.33	.23	.97	.62	.56	.23	.20	.064	.016	.037	.14
(WY)	1994	1995	1995	1995	1993	1995	1995	1994	1995	1995	1995	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1993 - 1995	
ANNUAL TOTAL	245.37		121.79			
ANNUAL MEAN	.67		.33		.55	
HIGHEST ANNUAL MEAN					.76	1994
LOWEST ANNUAL MEAN					.33	1995
HIGHEST DAILY MEAN	17	Mar 27	6.4	Mar 8	21	Dec 4 1993
LOWEST DAILY MEAN	a.02	Sep 11	a.00	Jul 8	b.00	Jul 8 1995
ANNUAL SEVEN-DAY MINIMUM	.02	Sep 10	.00	Jul 12	.00	Jul 12 1995
INSTANTANEOUS PEAK FLOW			45	May 9	c118	Apr 12 1994
INSTANTANEOUS PEAK STAGE			2.31	May 9	2.80	Apr 12 1994
INSTANTANEOUS LOW FLOW			a.00	Jul 8	b.00	Jul 8 1995
ANNUAL RUNOFF (CFSM)	1.60		.79		1.30	
ANNUAL RUNOFF (INCHES)	21.73		10.79		17.69	
10 PERCENT EXCEEDS	1.3		.70		1.0	
50 PERCENT EXCEEDS	.17		.10		.14	
90 PERCENT EXCEEDS	.04		.00		.02	

a Occurred many days.
b Occurred many days during 1995 water year.
c From rating curve extended above 42 ft^3/s.



TENNESSEE RIVER BASIN

03538260 BEAR CREEK AT COUNTY LINE NEAR OAK RIDGE, TN

LOCATION.--Lat 35°57'26", long 84°18'03", Anderson County, Hydrologic Unit 06010207, on right bank upstream of Bear Creek Road, at Anderson/Roane County line, and at mile 5.6.

DRAINAGE AREA.--1.57 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 882.17 ft above sea level.

REMARKS.--Records fair above 0.2 ft³/s, poor below.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 9	2230	*187	*3.12	No other peak greater than base discharge.			

No flow many days.

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	.05	.32	.57	.12	1.9	2.6	.81	9.9	.24	e.03	e.15	.00
2	.05	.27	.38	.09	1.6	1.7	.72	6.1	.65	e.02	e.02	.00
3	.05	.19	.27	.05	1.7	1.7	.61	2.4	.21	e.02	e.01	.00
4	.04	.15	1.4	.05	2.0	1.5	.55	1.5	.13	e.02	e.00	.00
5	.03	.14	2.9	.04	1.3	4.7	.46	1.1	.10	e.02	e.00	.00
6	.02	.17	1.2	16	1.0	3.9	.44	.83	.06	e.01	e.04	.00
7	.02	.11	.82	11	.98	2.9	.39	.57	.29	e.01	e.03	.00
8	.02	.05	.55	4.0	.87	40	.34	.38	.11	e.01	.54	.00
9	2.5	.05	.40	2.3	.75	9.4	.34	26	.04	e.01	.04	.00
10	.37	2.4	15	1.5	.71	4.8	.36	19	.03	e.02	.02	.00
11	.14	.64	5.5	7.0	.68	3.4	.35	10	.12	e.02	e.01	.00
12	.17	.42	2.4	6.4	.47	2.4	.86	3.6	.19	e.01	e.01	.00
13	.45	.40	1.4	3.3	.34	1.8	.49	2.2	.04	e.01	.00	1.0
14	.40	.34	.99	32	.34	1.5	.39	6.3	e.03	e.01	.00	.20
15	.39	.30	.64	40	10	1.3	.37	2.9	e.03	e.01	.00	.00
16	.32	.28	.58	14	34	1.1	.33	1.8	e.03	e.01	.00	.57
17	.25	.24	1.1	5.8	9.1	.96	1.2	1.5	e.03	e.01	.00	3.5
18	.24	.21	.67	3.7	4.7	.81	.71	2.3	e.03	e.01	.00	.08
19	.91	.19	.40	3.5	3.3	.69	.37	10	e.04	e.01	.00	.01
20	.71	.17	.31	2.8	2.5	2.7	.37	2.9	e.04	e.01	.72	.00
21	.64	.20	.26	1.8	1.8	4.8	8.4	1.8	e.03	e.01	.03	.29
22	.64	.14	.44	1.4	1.4	1.7	1.8	1.3	e.03	e.20	.00	2.1
23	.75	.10	.40	1.2	1.2	1.3	1.9	.94	e.03	e.03	.00	.97
24	.64	.07	.26	.93	1.0	.99	1.5	.64	e.03	e.02	.00	.60
25	.56	.07	.19	.73	.80	.75	1.1	.47	e.05	e.01	.00	.29
26	.44	.12	.14	.65	.69	.62	.79	.34	e.03	e.01	.00	.16
27	.37	5.1	.10	.57	3.2	1.5	.61	.29	e.03	e.01	.00	.05
28	.31	17	.07	11	4.8	1.3	.44	.36	e.02	e.04	.00	.00
29	.30	1.9	.07	7.4	---	1.1	.34	.26	e.02	e.02	.00	.00
30	.28	.97	.06	4.0	---	.98	.36	.19	e.04	e.02	.00	.00
31	.29	---	.11	2.7	---	.88	---	.16	---	e.50	.00	---
TOTAL	12.35	32.71	39.58	186.03	93.13	105.78	27.70	118.03	2.75	1.15	1.62	9.82
MEAN	.40	1.09	1.28	6.00	3.33	3.41	.92	3.81	.092	.037	.052	.33
MAX	2.5	17	15	40	34	40	8.4	26	.65	.50	.72	3.5
MIN	.02	.05	.06	.04	.34	.62	.33	.16	.02	.01	.00	.00
CFSM	.25	.69	.81	3.82	2.12	2.17	.59	2.43	.06	.02	.03	.21
IN.	.29	.78	.94	4.41	2.21	2.51	.66	2.80	.07	.03	.04	.23

e Estimated

TENNESSEE RIVER BASIN

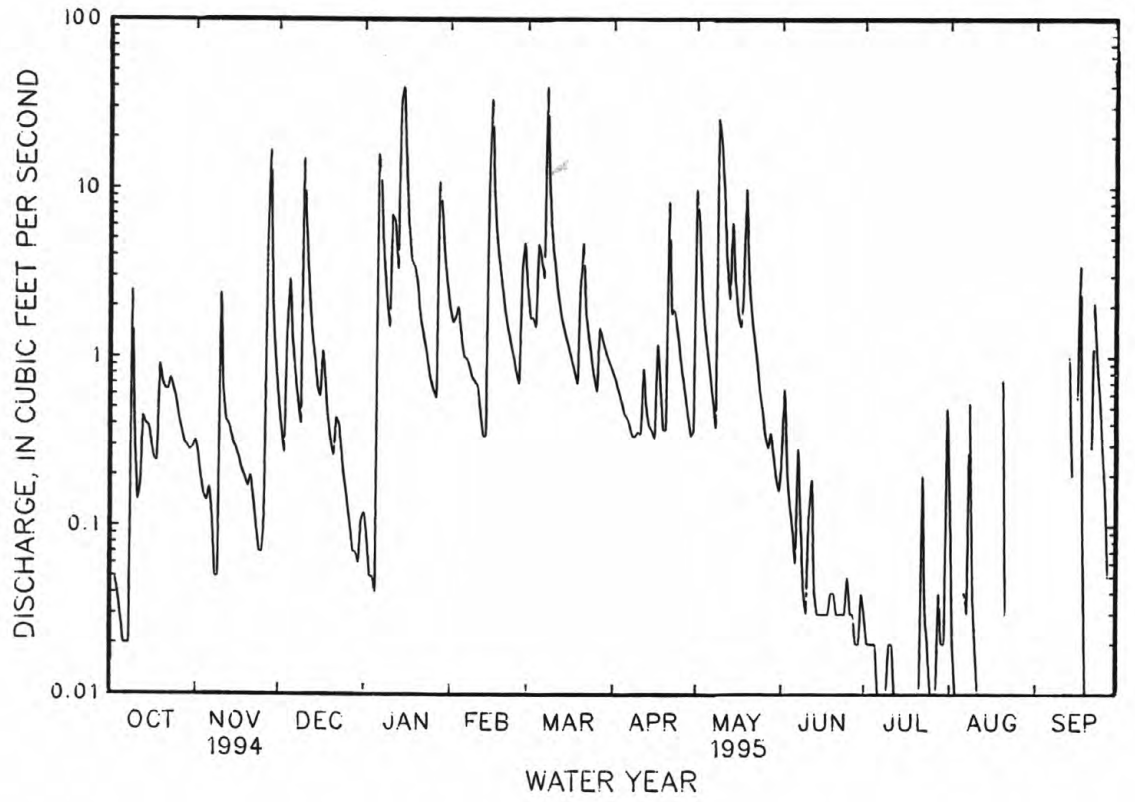
03538260 BEAR CREEK AT COUNTY LINE NEAR OAK RIDGE, TN--Continued

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

MEAN	.28	.98	3.69	5.39	7.88	6.44	5.69	1.67	.81	.48	.33	.42
MAX	.40	1.09	6.10	6.00	12.4	9.46	10.5	3.81	2.12	1.26	.74	.53
(WY)	1995	1995	1994	1995	1994	1994	1994	1995	1994	1994	1994	1993
MIN	.15	.87	1.28	4.77	3.33	3.41	.92	.60	.092	.037	.052	.33
(WY)	1994	1994	1995	1994	1995	1995	1995	1994	1995	1995	1995	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1993 - 1995	
ANNUAL TOTAL	1343.63		630.65			
ANNUAL MEAN	3.68		1.73		2.89	
HIGHEST ANNUAL MEAN					4.05	1994
LOWEST ANNUAL MEAN					1.73	1995
HIGHEST DAILY MEAN	121	Mar 27	40	Jan 15	121	Mar 27 1994
LOWEST DAILY MEAN	a.00	Jun 5	a.00	Aug 4	b.00	Jul 12 1993
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 10	.00	Aug 13	.00	Aug 13 1995
INSTANTANEOUS PEAK FLOW			c187	May 9	c398	Apr 12 1994
INSTANTANEOUS PEAK STAGE			3.12	May 9	5.55	Apr 12 1994
INSTANTANEOUS LOW FLOW			a.00	Aug 7	b.00	Jul 12 1993
ANNUAL RUNOFF (CFSM)	2.34		1.10		1.84	
ANNUAL RUNOFF (INCHES)	31.84		14.94		25.01	
10 PERCENT EXCEEDS	7.0		3.6		4.5	
50 PERCENT EXCEEDS	.71		.37		.40	
90 PERCENT EXCEEDS	.09		.01		.01	

a Occurred many days.
b Occurred many days each year.
c From rating curve extended above 83 ft³/s.



TENNESSEE RIVER BASIN

03538270 BEAR CREEK AT STATE HIGHWAY 95 NEAR OAK RIDGE, TN

LOCATION.--Lat 35°56'14", long 84°20'22", Roane County, Hydrologic Unit 06010207, on right bank upstream from bridge on State Highway 95, in triangle formed by intersection of Highway 95 and Bear Creek Road, 6.8 mi southwest of Oak Ridge, and at mile 2.8.

DRAINAGE AREA.--4.34 mi².

PERIOD OF RECORD.--April 1959 to June 1964 (discharge measurements only), March 1985 to current year.

REVISED RECORDS.--WDR TN-87-1: Drainage area. WDR TN-89-1: 1985-88 (M).

GAGE.--Water-stage recorder and Cippolletti-weir. Datum of gage is 801.15 ft above sea level.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 160 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Jan. 15	0300	197	2.48	May 10	0115	*219	*2.61

Minimum daily discharge, 0.48 ft³/s, Sept. 10, 11.

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	.79	.94	4.7	1.8	9.7	11	4.0	12	2.2	e1.2	.74	e.84
2	.76	.90	3.6	1.8	8.7	9.5	3.7	17	2.8	e1.0	.66	e.88
3	.71	.89	2.9	1.6	7.7	8.7	3.5	8.9	2.4	e.95	.71	e.84
4	.68	.81	3.4	1.5	8.3	8.3	3.4	6.9	2.2	e.85	.62	e.76
5	.67	.82	8.3	1.4	6.9	12	3.2	5.8	2.1	e.80	.72	e.70
6	.63	.84	6.2	18	6.0	14	3.1	4.7	1.8	e.77	.71	e.64
7	.63	.84	5.2	26	5.7	12	2.9	3.7	1.9	e.74	.63	e.58
8	.61	.78	4.0	14	5.5	85	2.8	3.2	1.9	e.70	1.8	e.55
9	3.8	.69	3.3	9.7	4.5	34	2.7	25	1.6	e.67	.94	e.52
10	2.7	4.7	22	7.5	4.7	21	2.6	59	1.5	e.64	.68	e.48
11	1.5	2.2	17	12	4.8	16	2.6	38	1.5	e.61	.85	e.48
12	1.2	1.7	9.8	18	4.0	12	3.4	17	1.9	e.57	.58	e.60
13	1.2	1.5	7.2	12	3.5	10	3.0	12	1.7	e.55	.58	e.66
14	1.1	1.3	5.8	53	3.3	9.2	2.5	18	1.4	e.52	.50	1.7
15	1.1	1.2	4.5	109	15	7.9	2.4	14	1.3	e.50	.59	1.2
16	.99	1.1	3.7	46	80	7.0	2.3	11	1.2	e.55	.70	1.3
17	.91	1.0	4.1	22	34	6.4	3.0	9.3	1.1	e.65	.59	2.9
18	.84	.97	3.7	15	20	5.9	3.0	8.1	1.1	.72	.85	2.2
19	1.2	.91	3.1	13	15	5.7	2.5	22	1.2	.91	.98	e2.0
20	1.8	.89	2.8	11	13	6.4	2.4	12	1.2	.65	1.8	e1.5
21	1.3	.89	2.6	8.8	11	17	14	9.0	1.1	.97	2.6	e1.3
22	1.2	.86	2.7	7.8	8.9	11	7.3	7.3	1.1	.99	e2.0	e2.0
23	1.2	.82	3.0	6.7	7.3	9.4	6.3	6.5	1.0	1.2	e1.0	e3.0
24	1.2	.79	2.6	5.8	6.7	7.9	6.3	5.1	1.0	.79	e.70	e2.2
25	1.2	.79	2.3	5.3	5.9	6.8	5.3	4.0	1.0	.70	e.65	e1.8
26	1.1	.79	2.2	4.8	5.6	6.1	4.3	3.5	1.0	.61	e.63	e1.5
27	1.0	9.2	1.9	4.3	7.8	6.1	3.6	3.1	.94	.82	e1.3	e1.3
28	1.0	38	1.9	18	13	5.8	3.3	3.1	.90	.54	e1.1	e1.1
29	1.0	9.4	1.8	22	---	5.4	3.2	2.8	.95	.67	e1.0	e1.0
30	1.0	6.3	1.7	15	---	4.7	3.3	2.6	e1.2	.69	e.95	e.90
31	1.0	---	1.8	12	---	4.2	---	2.3	---	.69	e.86	---
TOTAL	36.02	92.82	149.8	504.8	326.5	386.4	115.9	356.9	44.19	23.22	29.02	37.43
MEAN	1.16	3.09	4.83	16.3	11.7	12.5	3.86	11.5	1.47	.75	.94	1.25
MAX	3.8	38	22	109	80	85	14	59	2.8	1.2	2.6	3.0
MIN	.61	.69	1.7	1.4	3.3	4.2	2.3	2.3	.90	.50	.50	.48
CFSM	.27	.71	1.11	3.75	2.69	2.87	.89	2.65	.34	.17	.22	.29
IN.	.31	.80	1.28	4.33	2.80	3.31	.99	3.06	.38	.20	.25	.32

e Estimated

TENNESSEE RIVER BASIN

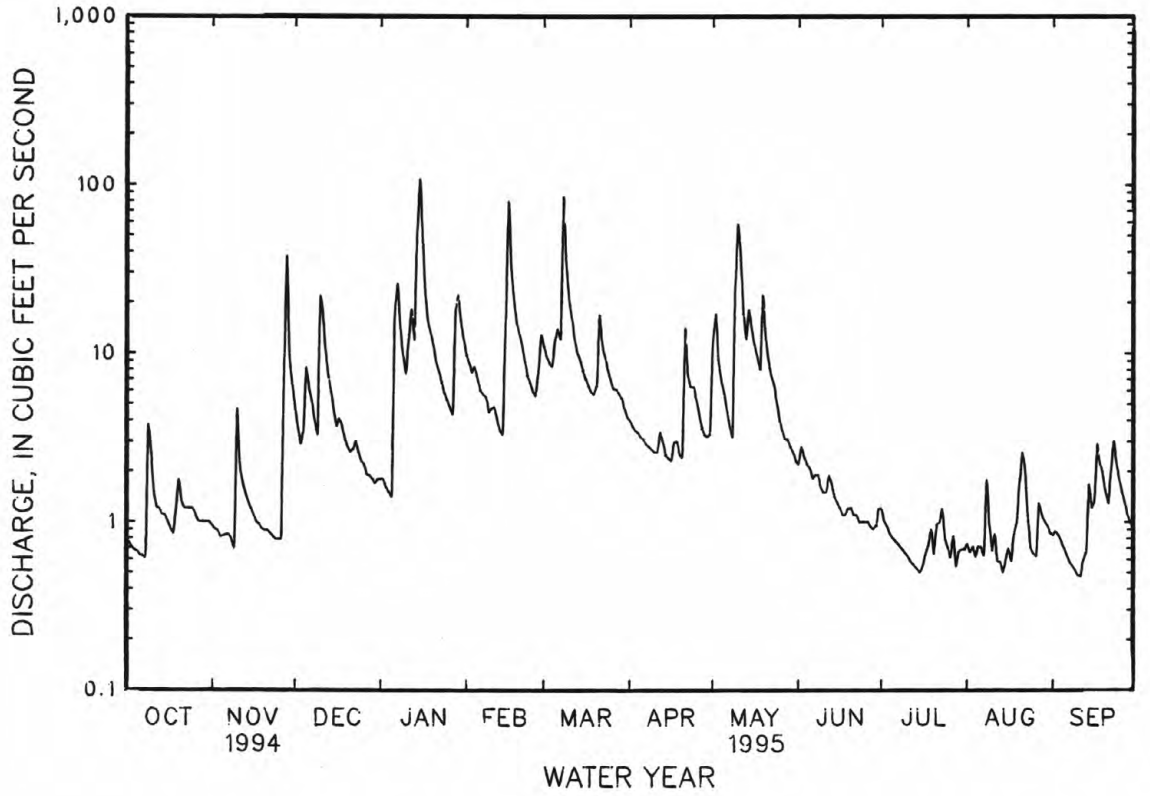
03538270 BEAR CREEK AT STATE HIGHWAY 95 NEAR OAK RIDGE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1995, BY WATER YEAR (WY)

MEAN	2.03	4.21	12.0	13.2	17.4	13.9	8.91	4.97	4.20	2.50	2.50	1.89
MAX	10.3	12.9	34.8	24.2	40.2	30.0	32.6	13.1	19.3	5.79	8.92	9.26
(WY)	1990	1990	1991	1989	1994	1994	1994	1990	1989	1989	1990	1989
MIN	.43	.62	1.54	2.85	4.67	5.52	2.41	1.26	.32	.75	.31	.55
(WY)	1988	1988	1988	1986	1988	1985	1986	1988	1988	1995	1987	1987

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1985 - 1995	
ANNUAL TOTAL	4298.31		2103.00			
ANNUAL MEAN	11.8		5.76		7.36	
HIGHEST ANNUAL MEAN					12.7	1994
LOWEST ANNUAL MEAN					2.57	1988
HIGHEST DAILY MEAN	329	Feb 11	109	Jan 15	329	Feb 11 1994
LOWEST DAILY MEAN	.51	Sep 13	a.48	Sep 10	.19	Sep 4 1987
ANNUAL SEVEN-DAY MINIMUM	.55	Sep 10	.55	Sep 6	.21	Sep 1 1987
INSTANTANEOUS PEAK FLOW			b219	May 10	b783	Dec 23 1990
INSTANTANEOUS PEAK STAGE			2.61	May 10	3.88	Dec 23 1990
INSTANTANEOUS LOW FLOW					c.18	Sep 3 1987
ANNUAL RUNOFF (CFSM)	2.71		1.33		1.70	
ANNUAL RUNOFF (INCHES)	36.84		18.03		23.04	
10 PERCENT EXCEEDS	24		13		15	
50 PERCENT EXCEEDS	2.9		2.3		2.7	
90 PERCENT EXCEEDS	.91		.68		.55	

a Also occurred Sept. 11.
b From rating curve extended above 120 ft³/s based on indirect measurement of peak flow.
c Also occurred Sept. 4, 1987.



TENNESSEE RIVER BASIN

03538600 OBED RIVER AT CROSSVILLE, TN

LOCATION.--Lat 35°57'27", long 85°03'00", Cumberland County, Hydrologic Unit 06010208, on right bank downstream wingwall of bridge on Sparta Drive, 0.4 mi downstream from Town Branch, and at mile 38.8.

DRAINAGE AREA.--12.0 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1950-51: crest-stage partal record, water years 1955-85: December 1991 to September 1995 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1717.40 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data. Flow affected at times by a small lake upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft³/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar. 8	0630	*366	*4.89				

Minimum discharge, 0.45 ft³/s, Sept. 9, 10.

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	1.5	2.4	6.0	2.5	29	30	6.0	21	6.9	26	2.4	2.7
2	1.8	1.9	4.7	2.3	26	7.0	5.5	32	6.3	19	1.1	1.7
3	1.9	1.9	4.2	2.5	52	6.8	4.4	27	4.9	13	1.0	1.0
4	1.0	2.0	15	2.3	58	6.3	4.2	23	3.7	9.5	1.2	.83
5	.89	1.9	24	1.7	46	26	3.4	19	2.6	6.6	5.6	1.1
6	1.3	3.1	45	32	23	37	3.2	14	2.5	6.3	3.9	1.1
7	1.4	2.0	70	78	7.4	99	2.4	11	6.6	4.2	3.4	1.0
8	.91	2.2	26	41	6.0	317	2.3	9.2	3.4	2.9	2.1	.67
9	2.9	2.0	5.7	9.1	5.7	179	2.6	16	2.1	2.1	1.5	.59
10	1.8	2.2	63	10	6.5	76	2.6	20	1.9	1.7	1.8	5.7
11	1.8	1.9	94	65	6.1	63	2.0	24	3.0	1.3	2.0	2.9
12	2.4	2.3	70	87	5.3	29	4.3	19	4.4	1.6	1.2	2.0
13	2.4	2.2	30	69	5.5	10	2.6	17	3.1	1.3	1.4	38
14	20	2.1	6.6	159	6.4	8.7	3.5	92	1.8	.87	1.2	8.0
15	5.6	2.1	7.1	203	30	8.8	2.6	49	1.5	.79	.81	3.5
16	4.0	1.9	39	140	171	11	2.0	47	1.3	8.4	1.1	7.9
17	3.1	1.9	29	72	135	11	3.6	42	1.2	3.1	1.0	19
18	3.2	2.1	5.2	34	89	10	3.1	73	1.7	2.4	.75	5.8
19	5.8	1.8	4.9	63	66	9.4	2.9	63	4.6	1.8	.79	4.2
20	3.9	1.5	4.8	74	46	11	3.1	31	3.8	1.1	23	3.6
21	3.7	1.6	4.4	36	9.0	12	38	26	2.6	1.1	3.6	3.9
22	5.3	1.6	5.6	13	7.5	11	29	21	2.7	13	1.7	5.6
23	4.8	1.4	5.6	16	7.8	9.4	40	15	1.5	3.7	1.2	4.0
24	3.9	1.6	5.6	17	7.8	7.8	43	11	1.2	3.6	1.5	4.0
25	3.1	1.9	6.0	18	8.6	7.1	35	8.1	14	2.2	1.0	4.1
26	2.7	2.6	5.2	17	8.8	5.6	28	6.0	37	1.6	.76	4.9
27	2.6	33	5.8	18	25	10	21	16	76	2.6	.79	3.7
28	2.3	64	4.3	31	62	9.7	17	16	51	3.4	1.4	2.9
29	2.3	14	3.7	44	---	8.9	12	10	32	1.9	1.1	2.8
30	2.2	8.3	4.0	40	---	7.1	13	6.7	33	1.2	.78	2.1
31	2.1	---	2.8	34	---	6.2	---	4.8	---	1.6	2.0	---
TOTAL	102.60	171.4	607.2	1431.4	956.4	1050.8	342.3	789.8	318.3	149.86	73.08	149.29
MEAN	3.31	5.71	19.6	46.2	34.2	33.9	11.4	25.5	10.6	4.83	2.36	4.98
MAX	20	64	94	203	171	317	43	92	76	26	23	38
MIN	.89	1.4	2.8	1.7	5.3	5.6	2.0	4.8	1.2	.79	.75	.59
CFSM	.28	.48	1.63	3.85	2.85	2.82	.95	2.12	.88	.40	.20	.41
IN.	.32	.53	1.88	4.44	2.96	3.26	1.06	2.45	.99	.46	.23	.46

TENNESSEE RIVER BASIN

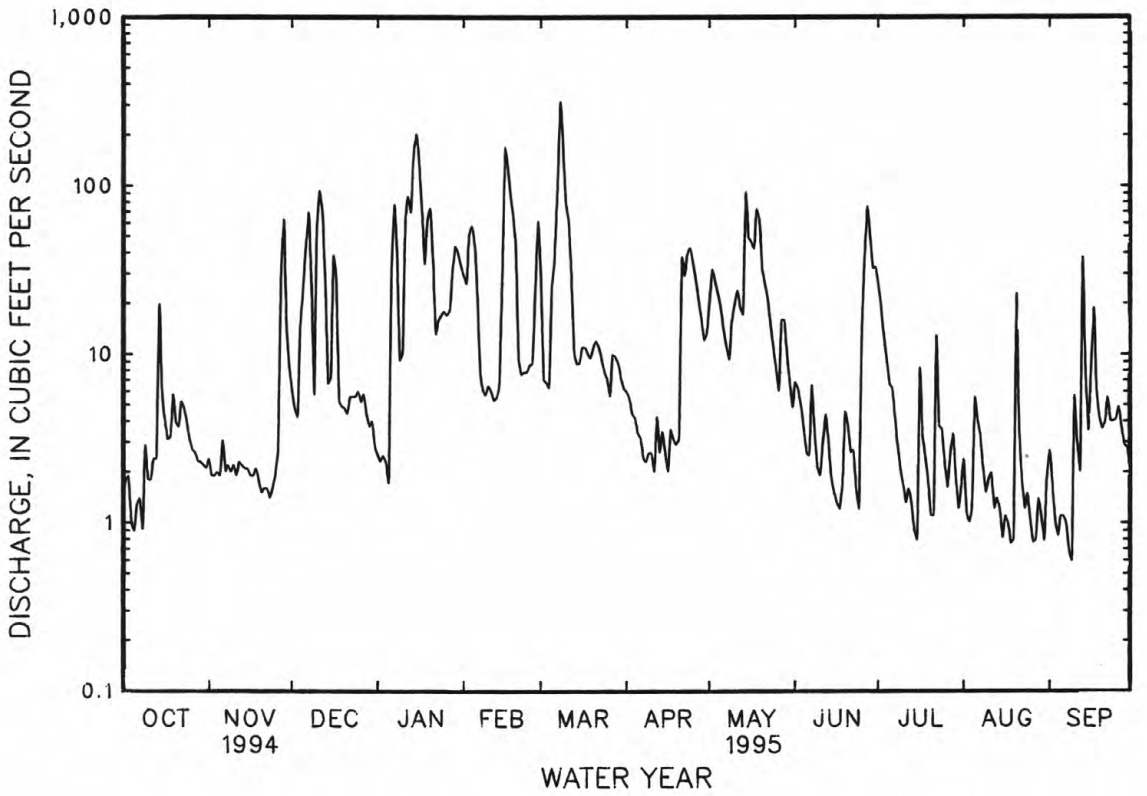
03538600 OBED RIVER AT CROSSVILLE, TN--Continued

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

MEAN	3.50	18.8	39.8	42.5	40.9	54.1	29.4	11.9	15.2	10.4	4.24	6.65
MAX	5.95	49.2	77.5	57.6	93.2	82.4	71.3	25.5	30.6	20.7	8.06	18.4
(WY)	1993	1993	1992	1994	1994	1994	1994	1995	1992	1994	1992	1992
MIN	1.23	1.58	19.6	32.3	15.0	20.1	7.19	4.29	1.43	1.15	.61	.97
(WY)	1994	1994	1995	1993	1992	1992	1992	1994	1993	1993	1993	1993

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1992 - 1995	
ANNUAL TOTAL	11538.50		6142.43			
ANNUAL MEAN	31.6		16.8		23.5	
HIGHEST ANNUAL MEAN					31.3	1994
LOWEST ANNUAL MEAN					16.8	1995
HIGHEST DAILY MEAN	686	Feb 11	317	Mar 8	686	Feb 11 1994
LOWEST DAILY MEAN	.89	Oct 5	.59	Sep 9	.13	Aug 28 1993
ANNUAL SEVEN-DAY MINIMUM	1.3	Oct 2	.90	Sep 3	.28	Aug 28 1993
INSTANTANEOUS PEAK FLOW			366	Mar 8	892	Feb 11 1994
INSTANTANEOUS PEAK STAGE			4.89	Mar 8	8.45	Feb 11 1994
INSTANTANEOUS LOW FLOW			a.45	Sep 9	b.09	Aug 4 1992
ANNUAL RUNOFF (CFSM)	2.63		1.40		1.96	
ANNUAL RUNOFF (INCHES)	35.77		19.04		26.63	
10 PERCENT EXCEEDS	73		45		62	
50 PERCENT EXCEEDS	7.1		5.2		5.6	
90 PERCENT EXCEEDS	1.8		1.3		.89	

a Also occurred on Sept. 10.
b Also occurred on Aug. 29 and Sept. 22, 1993.



TENNESSEE RIVER BASIN

03540500 EMORY RIVER AT OAKDALE, TN

LOCATION.--Lat 35°58'59", long 84°33'29", Morgan County, Hydrologic Unit 06010208, on left bank, at Oakdale, 1,000 ft downstream from highway bridge, 1,100 ft downstream from Mud Lick Creek, and at mile 18.3.

DRAINAGE AREA.--764 mi².

PERIOD OF RECORD.--June 1927 to current year. Prior to October 1929, published as Emery River at Harriman and October 1929 to September 1934 as Emery River at Oakdale.

REVISED RECORDS.--WSP 823: Drainage area. WSP 923: 1940. WSP 1386: 1928-30(M), 1932, 1943, 1945(P).

GAGE.--Data collection platform and data logger. Datum of gage is 761.38 ft above sea level. Prior to Oct. 1, 1929, nonrecording gage at site 5.8 mi downstream at datum 43.60 ft lower, and Oct. 1, 1929, to Dec. 29, 1969, water-stage recorder at present site at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1857, that of Mar. 23, 1929, from report of Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 19,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Jan. 15	0330	29,900	19.81	Mar. 8	1400	*33,700	*20.76

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	52	85	1040	322	2090	1680	596	778	341	538	65	31
2	49	83	829	316	1750	1500	553	1340	425	450	65	24
3	46	162	676	306	1540	1320	504	1520	536	325	63	23
4	42	161	565	289	1480	1210	462	1250	396	252	58	20
5	38	154	1580	270	1370	1250	426	1080	300	200	63	18
6	32	140	2700	322	1190	3350	396	913	240	164	91	17
7	26	92	1870	4860	1070	3160	371	764	314	142	89	17
8	23	74	1430	3630	990	19100	345	647	714	125	106	14
9	25	68	1070	2370	763	11400	323	886	504	112	191	14
10	39	71	1310	1750	896	5570	303	4620	352	94	273	14
11	37	75	5890	1590	836	3750	282	3240	300	114	172	15
12	37	74	3460	5740	797	2810	319	2190	377	206	118	14
13	47	117	2190	4010	695	2140	449	1570	564	139	99	13
14	53	90	1630	9680	665	1740	435	1720	481	101	84	19
15	110	73	1230	21200	2030	1470	384	4410	343	81	70	15
16	294	66	1020	11800	11500	1270	355	2770	260	68	59	94
17	195	63	983	5670	9710	1110	375	2380	202	60	51	112
18	141	61	961	3530	4980	964	659	1980	155	67	44	107
19	120	60	836	2910	3300	848	781	2450	212	89	38	136
20	124	59	740	4160	2500	770	714	2410	209	83	34	107
21	110	58	672	3240	1980	853	1630	1610	271	70	184	99
22	126	55	624	2430	1560	895	3270	1170	329	58	196	96
23	155	50	594	1940	1330	791	2200	884	291	61	161	99
24	170	48	549	1610	1210	712	3210	681	231	54	106	87
25	221	46	499	1350	1090	634	2640	540	245	71	77	85
26	178	47	460	1200	959	572	1890	435	368	71	62	89
27	147	109	423	1080	905	596	1450	357	1150	62	53	83
28	122	3060	393	1310	1240	775	1170	318	1080	75	44	79
29	104	3260	369	3960	---	750	950	707	625	69	36	75
30	93	1580	350	3780	---	687	819	679	444	56	30	73
31	87	---	333	2690	---	640	---	444	---	49	29	---
TOTAL	3043	10141	37276	109315	60426	74317	28261	46743	12259	4106	2811	1689
MEAN	98.2	338	1202	3526	2158	2397	942	1508	409	132	90.7	56.3
MAX	294	3260	5890	21200	11500	19100	3270	4620	1150	538	273	136
MIN	23	46	333	270	665	572	282	318	155	49	29	13
CFSM	.13	.44	1.57	4.62	2.82	3.14	1.23	1.97	.53	.17	.12	.07
IN.	.15	.49	1.82	5.32	2.94	3.62	1.38	2.28	.60	.20	.14	.08

TENNESSEE RIVER BASIN

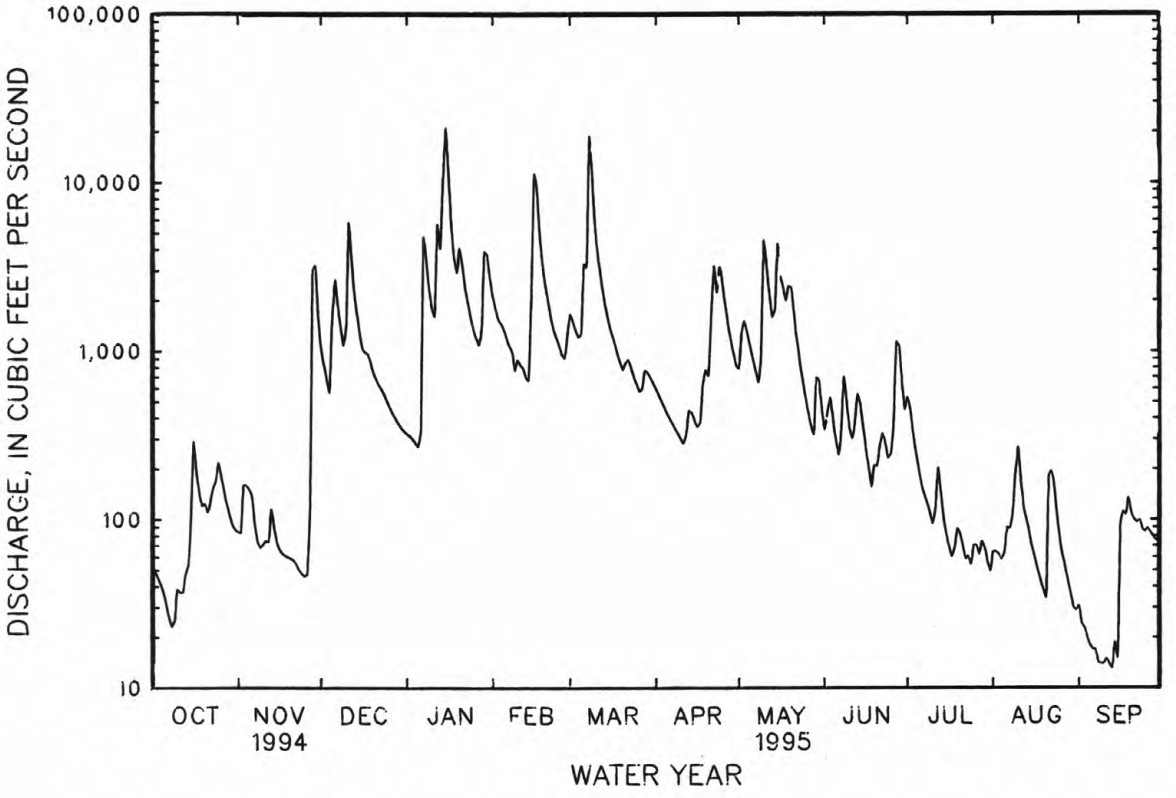
03540500 EMORY RIVER AT OAKDALE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 1995, BY WATER YEAR (WY)

MEAN	288	1076	2263	2799	3030	3178	2156	1306	644	488	286	241
MAX	1971	6214	7938	7941	8136	8962	5808	5804	6731	3694	2107	1562
(WY)	1976	1958	1991	1937	1939	1975	1977	1973	1989	1967	1942	1944
MIN	.57	.37	42.1	97.8	422	946	374	140	16.3	5.55	7.70	.91
(WY)	1954	1954	1940	1981	1941	1985	1986	1962	1936	1944	1930	1954

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1927 - 1995	
ANNUAL TOTAL	763023		390387			
ANNUAL MEAN	2090		1070		1472	
HIGHEST ANNUAL MEAN					2653	1973
LOWEST ANNUAL MEAN					670	1981
HIGHEST DAILY MEAN	51300	Mar 28	21200	Jan 15	103000	Dec 23 1990
LOWEST DAILY MEAN	23	Oct 8	13	Sep 13	a.00	Aug 13 1944
ANNUAL SEVEN-DAY MINIMUM	31	Oct 6	14	Sep 7	.00	Nov 7 1953
INSTANTANEOUS PEAK FLOW			33700	Mar 8	b195000	Mar 23 1929
INSTANTANEOUS PEAK STAGE			20.76	Mar 8	c41.20	Mar 23 1929
INSTANTANEOUS LOW FLOW			12	Sep 13	a.00	Aug 13 1944
ANNUAL RUNOFF (CFSM)	2.74		1.40		1.93	
ANNUAL RUNOFF (INCHES)	37.15		19.01		26.19	
10 PERCENT EXCEEDS	4950		2690		3410	
50 PERCENT EXCEEDS	740		369		548	
90 PERCENT EXCEEDS	72		49		20	

a Also occurred Aug. 14, 15, 1944; Nov. 7, 8, 9, 1952.
b From rating curve extended above 85,000 ft^3/s.
c Maximum stage from floodmarks and flood profile, present site and datum, 61.1 ft at site and datum then in use.



TENNESSEE RIVER BASIN

03563000 OCOEE RIVER AT EMF, TN

LOCATION.--Lat 35°05'48", long 84°32'07", Polk County, Hydrologic Unit 06020203, on left bank 700 ft downstream from Tennessee Valley Authority powerplant, 0.8 mi upstream from former village of Emf, 2.0 mi downstream from Goforth Creek, and at mile 19.6.

DRAINAGE AREA.--524 mi².

PERIOD OF RECORD.--October 1912 to current year. Prior to January 1913, monthly discharge only, published in WSP 1306.

REVISED RECORDS.--WSP 783: 1913-34. WSP 853: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 837.88 ft above sea level.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Blue Ridge Lake (station 03558500), in Water Resources Data for Georgia, Ocoee No. 3 Lake (station 03562500) (see p. 258), and by powerplant above station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 19, 1906, discharge, 62,000 ft³/s, was the greatest known since at least 1840, from reports of Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,100 ft³/s, Feb. 16, gage height 10.02 ft; minimum, 45 ft³/s, Dec. 20, gage height 2.58 ft; minimum daily 130 ft³/s, Dec. 20.

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	1400	1390	1420	918	1220	1730	1280	1270	680	753	809	1070
2	1400	1390	1410	919	1430	1730	1260	1270	944	845	1210	794
3	1450	1390	1400	914	1420	1710	1130	1260	982	692	1270	733
4	1430	1390	1420	914	1430	1700	1130	1250	991	769	1270	589
5	1420	1400	1460	910	1430	1720	1140	1250	993	829	777	900
6	1410	1390	1470	914	1420	1780	1120	1300	967	1120	672	1100
7	1410	1380	1440	1270	1420	1740	1140	1290	1300	1160	1200	996
8	1140	1380	1280	948	1430	3330	1250	1250	1310	908	1210	1000
9	960	1390	1400	938	1410	3240	1250	1340	1290	887	1210	750
10	1060	1400	1430	927	1420	3720	1130	2440	1370	981	1280	734
11	1040	1410	1540	947	1430	3620	1140	1580	1370	900	1280	749
12	1040	1400	1480	1570	1420	3130	1150	1470	1440	792	835	945
13	1090	1400	1440	1490	1420	3200	1140	1390	1290	913	807	1190
14	3920	1400	1430	1360	1420	3270	1130	1440	1250	981	1230	1170
15	1970	1400	1410	1650	1430	2520	1230	1290	1300	869	1400	1320
16	1480	1400	1400	1590	8050	1650	1230	1270	1300	903	1330	768
17	1450	1390	1400	1470	6040	1670	1120	1260	1320	757	1270	798
18	1430	1270	1390	1440	2390	1240	1120	1130	1320	1000	1060	1210
19	1420	1290	766	1490	2240	1660	1120	1380	1290	585	756	1140
20	1420	1370	130	1560	1740	1560	1130	1370	892	621	682	1110
21	1400	1380	1380	1510	1710	1630	1170	1310	988	425	791	1370
22	1390	1380	1290	1470	1680	1650	1270	1240	975	644	1190	1450
23	1390	1380	761	1440	1680	1650	1260	1240	973	693	1030	1490
24	1430	993	816	1420	1680	1640	1170	1240	947	450	1170	1400
25	1440	918	1400	1410	1670	1660	1160	1240	967	519	1170	1160
26	1420	925	1300	1410	1670	1660	1170	1110	893	501	746	1380
27	1410	956	1390	1400	1680	1690	1270	900	920	629	1170	1370
28	1400	1760	1390	1420	1700	1660	1280	803	916	480	1290	1330
29	1390	2030	947	1440	---	1310	1330	663	971	852	1200	1310
30	1390	1440	904	1440	---	1180	1330	675	975	705	1030	1350
31	1380	---	914	1440	---	1140	---	646	---	781	1010	---
TOTAL	44780	40792	39008	39939	55080	62790	35750	38567	33124	23944	33355	32676
MEAN	1445	1360	1258	1288	1967	2025	1192	1244	1104	772	1076	1089
MAX	3920	2030	1540	1650	8050	3720	1330	2440	1440	1160	1400	1490
MIN	960	918	130	910	1220	1140	1120	646	680	425	672	589
(†)	-6500	-12200	-3200	+5600	+11300	+11000	+6700	-400	-700	-2200	-9700	-12000
MEAN‡	1235	953	1155	1469	2371	2380	1415	1231	1081	701	763	689
CFSM‡	2.36	1.82	2.20	2.80	4.52	4.54	2.70	2.35	2.06	1.34	1.46	1.31
IN‡	2.72	2.03	2.54	3.23	4.71	5.24	3.01	2.71	2.30	1.54	1.68	1.47

CAL YR 1994 MEAN‡ 1657 CFSM‡ 3.16 IN.‡ 42.92
WTR YR 1995 MEAN‡ 1279 CFSM‡ 2.44 IN.‡ 33.13

† Change in contents, in cfs-days, in Blue Ridge Lake (Georgia).
‡ Adjusted for change in contents in lake listed above.
NOTE.--Contents (cfs-days) for adjustments furnished by Tennessee Valley Authority.

TENNESSEE RIVER BASIN

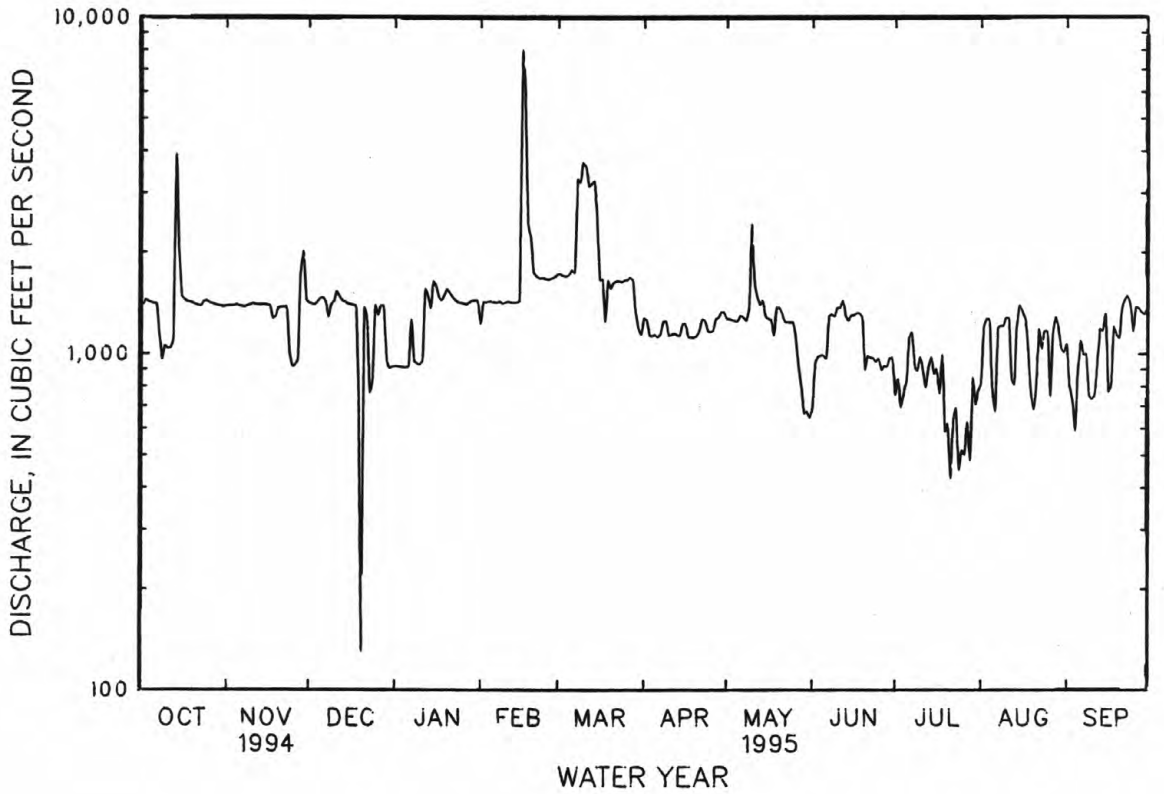
03563000 OCOEE RIVER AT EMF, TN--Continued

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

MEAN	1050	996	1120	1275	1411	1476	1529	1314	1165	1117	1113	1076
MAX	2312	1677	3415	2780	4687	4111	4040	2786	2272	2439	2014	1604
(WY)	1965	1990	1933	1933	1990	1990	1936	1946	1973	1938	1967	1949
MIN	410	260	278	448	356	381	351	328	436	432	459	472
(WY)	1931	1988	1988	1931	1934	1988	1941	1988	1940	1940	1986	1986

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1931 - 1995	
ANNUAL TOTAL	580087		479805			
ANNUAL MEAN	1589		1315		1219	
HIGHEST ANNUAL MEAN					1868	1990
LOWEST ANNUAL MEAN					570	1988
HIGHEST DAILY MEAN	9410	Mar 28	8050	Feb 16	24000	Feb 16 1990
LOWEST DAILY MEAN	130	Dec 20	130	Dec 20	4.6	Sep 14 1962
ANNUAL SEVEN-DAY MINIMUM	814	Mar 18	550	Jul 20	6.0	Jul 27 1944
INSTANTANEOUS PEAK FLOW			13100	Feb 16	a51400	Feb 16 1990
INSTANTANEOUS PEAK STAGE			10.02	Feb 16	b17.06	Feb 16 1990
INSTANTANEOUS LOW FLOW			45	Dec 20	3.4	Sep 20 1962
10 PERCENT EXCEEDS	2650		1660		1730	
50 PERCENT EXCEEDS	1420		1290		1080	
90 PERCENT EXCEEDS	854		793		587	

a From rating curve extended above 17,000 ft³/s.
b From high water mark in gage house.



TENNESSEE RIVER BASIN

03565428 - OOSTANAULA CREEK NEAR SWEETWATER, TN

WATER-QUALITY RECORDS

LOCATION.--Lat 35°30'14", long 84°29'47", McMinn County, Hydrologic Unit 06020002, on right bank 35 ft downstream of county bridge, 5.5 mi south of Sweetwater.

DRAINAGE AREA.--

PERIOD OF RECORD.--October 1993 to September 1995 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	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)
MAY										
23...	0930	4.9	300	7.8	15.0	741	8.7	89	K840	790
JUN										
06...	0910	7.3	275	7.4	17.5	735	8.1	88	5500	9400
20...	0910	5.5	312	7.8	17.5	737	8.4	91	940	1200
JUL										
05...	0900	4.2	310	7.8	18.0	--	9.1	--	1000	1800
18...	0905	5.8	327	7.3	18.5	--	8.1	--	1100	2000
AUG										
01...	0910	13	299	7.2	17.5	727	8.2	90	650	1200
15...	0915	5.2	317	7.7	18.0	736	9.2	101	1500	--
30...	0905	3.3	331	7.8	17.5	740	8.7	94	940	1400
SEP										
13...	0930	2.8	331	7.6	16.5	742	8.6	91	670	1900
26...	0920	2.2	342	7.8	15.0	730	8.6	89	2700	6700

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	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)
NOV										
08...	0930	1.3	355	7.7	12.0	741	8.7	83	610	1200
DEC										
19...	1215	4.5	355	7.9	10.5	745	9.8	90	160	270
JAN										
31...	1005	7.4	310	7.6	8.5	739	10.7	94	K160	520

K--Results based on non-ideal colony count.

TENNESSEE RIVER BASIN

03565430 - OOSTANAULA CREEK BELOW JOHNSON BRANCH NEAR ATHENS, TN

WATER-QUALITY RECORDS

LOCATION.--Lat 35°28'14", long 84°33'12", McMinn Hydrologic Unit 06020002, on right bank 100 ft upstream of farm bridge, 2 mi northeast of Athens.

DRAINAGE AREA.--

PERIOD OF RECORD.--October 1993 to September 1995 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	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)
MAY										
23...	1120	15	263	7.8	15.0	--	8.4	--	2200	980
JUN										
06...	1035	20	218	7.4	18.5	737	9.1	101	32000	24000
20...	1100	16	277	8.0	18.5	740	9.0	99	1100	1800
JUL										
05...	1038	12	290	8.1	19.0	--	9.1	--	2700	1700
18...	1105	20	272	7.9	19.0	--	8.2	--	38000	13000
AUG										
01...	1200	51	248	7.7	17.5	727	8.2	90	550	5900
15...	1100	19	274	7.8	18.0	737	10.5	115	3400	--
30...	1035	11	287	8.0	18.0	738	8.1	88	880	2300
SEP										
13...	1135	8.8	290	7.9	17.0	748	8.8	93	1500	1900
26...	1115	7.9	295	8.1	16.0	730	8.2	87	630	930

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	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)
NOV										
08...	1105	5.9	304	8.0	13.0	744	9.0	88	760	420
DEC										
20...	1015	15	297	7.9	8.0	746	10.3	89	15000	680
FEB										
01...	1040	28	265	7.8	8.5	735	12.1	107	430	1300

TENNESSEE RIVER BASIN

03566000 HIWASSEE RIVER AT CHARLESTON, TN

LOCATION.--Lat 35°17'16", long 84°45'07", Bradley County, Hydrologic Unit 06020002, on left bank 250 ft upstream from Norfolk Southern Railway bridge, 0.3 mi upstream from bridge on U.S. Highway 11 at Charleston, and at mile 18.9.

DRAINAGE AREA.--2,298 mi².

PERIOD OF RECORD.--November 1898 to April 1899, November 1899 to April 1903, October 1919 to January 1940, January 1963 to January 1977, September 1979 to December 1981 (vane lost), August 1987 to current year. Gage-height records collected at this station during the period December 1884 to December 1889 are contained in the United States War Department Stages of Ohio River and Principal Tributaries, 1858-89, Part 1, and during period January 1890 to December 1943 in reports of the U.S. Weather Bureau.

REVISED RECORDS.--WSP 853: Drainage area. WSP 1436: 1902, 1922(M), 1928, 1936(M).

GAGE.--Water-stage recorder and velocity recorder. Datum of gage is 665.56 ft above sea level. Prior to July 18, 1925, nonrecording gages, and July 18, 1925, to Sept. 6, 1926, water-stage recorder, at Southern Railway bridge, 250 ft downstream at datum 1.50 ft higher. Auxiliary nonrecording gages at several sites and datums used periodically.

REMARKS.-- No estimated daily discharges. Records poor. Some diversions above gage for industrial and municipal water supplies. Flow regulated by seven reservoirs (see p. 252) and Water Resources Data for Georgia and North Carolina). Daily discharge figures computed using areas as determined from a stage-area curve and velocities as determined from a velocity curve. Reverse flow has occurred for short periods each year since closure of Chickamauga Dam on Tennessee River in 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 31, 1886, reached a stage of 34.0 ft, present datum, discharge about 70,000 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	4920	6330	6880	2930	5540	6110	3360	1780	1880	1980	3200	4010
2	4640	6200	6510	2810	5160	8920	2730	1950	2320	1870	3470	2990
3	5210	6220	5890	3660	5360	8360	2480	2310	2480	1940	3360	2720
4	5530	6260	5720	4330	5170	6720	2240	1350	1970	2130	3690	2910
5	6080	5450	6630	4440	5240	4910	2330	1910	1820	2580	2500	3750
6	6210	5090	7310	4160	5260	4560	2280	1620	2240	2660	2160	3900
7	6080	5240	6230	5030	5430	4320	2170	1620	2910	2390	3010	3660
8	5870	5210	5540	4090	5050	9920	2260	1650	2930	2120	3730	3480
9	5600	5060	6730	4500	5030	9960	2320	1650	2650	1860	3820	3310
10	5710	5400	7140	4880	4850	3240	2170	2410	2400	2230	3470	3260
11	5900	5320	8720	4980	4600	3390	2270	2000	1640	2660	3260	3620
12	5130	5100	6730	6790	4100	8370	2390	2210	2630	2530	2420	3710
13	5240	5000	8670	7130	4570	7830	2540	1900	3570	2920	2480	3420
14	8810	4920	8700	7200	4830	7430	2380	2260	2990	2940	3100	3870
15	10400	5230	8310	9230	4350	7490	2240	3220	2930	2550	3360	4500
16	6360	5130	8410	9930	5480	6100	2240	2380	2590	2510	3290	3780
17	6440	5040	6660	8930	14800	5320	2170	2390	2360	3040	3170	3840
18	6300	5270	5610	8090	13500	5080	2360	2380	1710	3190	3120	4120
19	6320	5240	5300	7970	12000	4680	2380	2710	1880	3230	2840	4310
20	6360	5050	5880	8640	11800	5210	2410	2710	2260	3070	2610	4130
21	6390	5080	7060	7710	11500	4660	2430	2710	2500	2820	2760	4110
22	5740	4930	6760	6850	11200	5270	2510	2280	2430	2220	2960	4880
23	5630	5000	7410	6340	9900	4980	2210	2310	2220	2010	2800	4900
24	5610	4780	5660	6330	9940	4990	2090	2440	2000	2150	3390	4490
25	5890	4530	5140	5890	8980	4090	1930	2310	1800	2200	3770	4420
26	5900	4430	5160	5820	8730	3980	1870	1940	2030	2380	3230	4550
27	5860	4450	5170	5590	6730	4260	1770	1850	2680	2180	3390	4230
28	5840	6340	5160	5560	4130	5150	1800	2360	2550	2710	4250	4090
29	5490	7820	5140	5630	---	4490	1700	2090	2380	2650	4210	4000
30	3290	6730	4750	5800	---	3970	1650	1900	2220	2360	4240	4160
31	4070	---	4160	6030	---	3910	---	1730	---	2950	4020	---
TOTAL	182820	161850	199140	187270	203230	177670	67680	66330	70970	77030	101080	117120
MEAN	5897	5395	6424	6041	7258	5731	2256	2140	2366	2485	3261	3904
MAX	10400	7820	8720	9930	14800	9960	3360	3220	3570	3230	4250	4900
MIN	3290	4430	4160	2810	4100	3240	1650	1350	1640	1860	2160	2720

TENNESSEE RIVER BASIN

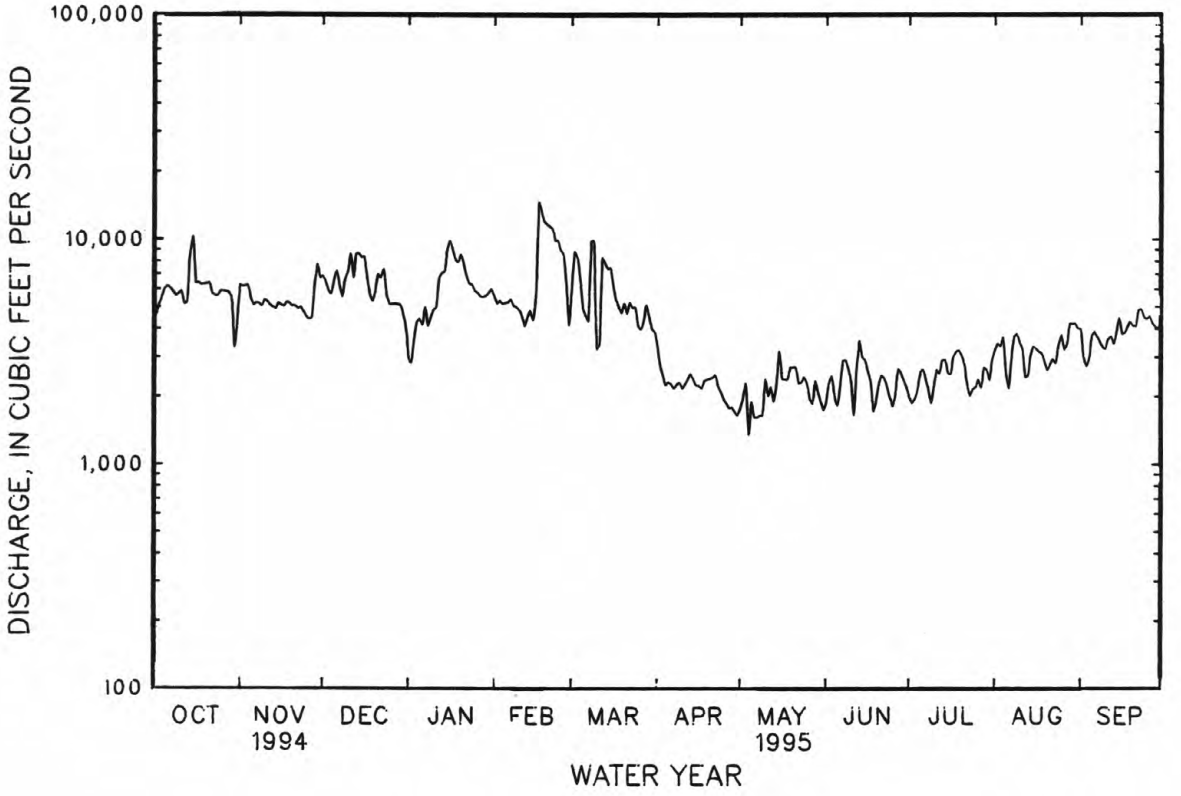
03566000 HIWASSEE RIVER AT CHARLESTON, TN--Continued

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

MEAN	4007	4373	5625	6171	6553	6336	4532	3760	3906	3903	3916	3643
MAX	9332	8638	12980	13060	16270	13860	11950	7922	8897	6975	6201	5118
(WY)	1990	1968	1968	1974	1990	1990	1994	1973	1989	1967	1967	1967
MIN	1442	1681	2070	2601	2680	1866	1110	971	1395	1750	1810	1747
(WY)	1989	1982	1988	1981	1988	1988	1988	1988	1988	1988	1988	1987

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1964 - 1995	
ANNUAL TOTAL	2272900		1612190			
ANNUAL MEAN	6227		4417		4752	
HIGHEST ANNUAL MEAN					6891	1990
LOWEST ANNUAL MEAN					1940	1988
HIGHEST DAILY MEAN	e50000	Mar 28	14800	Feb 17	54000	Mar 17 1973
LOWEST DAILY MEAN	2310	Jun 3	1350	May 4	524	May 24 1981
ANNUAL SEVEN-DAY MINIMUM	2630	May 30	1730	May 3	817	Oct 29 1988
INSTANTANEOUS PEAK FLOW			32100	Feb 17	57000	Mar 17 1973
INSTANTANEOUS PEAK STAGE			20.95	Feb 17	29.42	Mar 28 1994
10 PERCENT EXCEEDS	10000		7160		7690	
50 PERCENT EXCEEDS	5240		4120		4100	
90 PERCENT EXCEEDS	3380		2110		2170	

e Estimated



TENNESSEE RIVER BASIN

035661285 NORTH MOUSE CREEK NEAR ROCKY MOUNT HOLLOW NEAR ATHENS, TN

LOCATION.--Lat 35°26'55", long 84°39'23", McMinn County, Hydrologic Unit 06020002, on right bank at downstream end of culvert at county road, 1.5 mi west of Athens.

DRAINAGE AREA.--42.1 mi²

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

GAGE.--Water-stage recorder. Datum of gage is 775 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar. 8	1300	1,060	11.99	Mar. 19	1130	*1,410	*12.70

Minimum discharge, 21 ft³/s, Nov. 24, 25, Sept. 10.

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	47	66	45	109	151	71	46	50	32	26	25
2	25	45	60	44	104	132	67	52	61	30	26	24
3	29	41	56	44	97	122	65	43	48	30	25	23
4	28	39	69	44	96	113	64	42	46	36	25	22
5	27	37	129	42	86	134	61	42	45	31	24	23
6	27	37	90	113	82	140	60	41	44	31	42	22
7	28	36	78	196	78	125	58	40	53	30	39	22
8	27	36	71	84	75	747	56	40	46	29	57	22
9	35	36	66	76	70	351	55	42	42	29	32	22
10	36	44	137	71	72	235	54	44	40	29	29	21
11	29	35	141	107	70	189	52	81	40	29	28	26
12	29	29	98	141	65	165	56	45	47	28	27	24
13	35	26	89	103	64	149	53	42	41	28	26	25
14	212	27	81	333	61	135	50	277	39	27	26	41
15	68	26	74	506	72	123	49	115	38	27	25	30
16	53	24	71	401	329	112	48	80	37	27	25	27
17	46	24	67	239	290	105	48	74	35	27	24	82
18	43	24	62	194	203	98	48	69	35	27	24	37
19	44	23	60	207	172	92	47	656	35	26	23	32
20	45	23	57	206	153	89	46	170	35	26	46	30
21	48	23	55	164	132	119	75	120	35	26	29	31
22	45	23	56	142	116	89	49	100	34	32	27	44
23	44	22	56	132	106	83	48	89	34	32	26	41
24	42	21	52	120	100	77	49	80	33	28	24	35
25	42	21	50	110	90	73	47	70	32	27	26	33
26	47	23	48	102	86	69	45	65	32	27	28	33
27	45	70	48	95	142	138	44	62	32	32	54	32
28	43	248	47	164	204	100	43	64	31	80	29	30
29	41	96	46	173	---	85	43	56	31	32	27	29
30	41	74	46	131	---	79	42	54	32	28	26	28
31	43	---	46	118	---	75	---	52	---	28	26	---
TOTAL	1372	1280	2172	4647	3324	4494	1593	2853	1183	951	921	916
MEAN	44.3	42.7	70.1	150	119	145	53.1	92.0	39.4	30.7	29.7	30.5
MAX	212	248	141	506	329	747	75	656	61	80	57	82
MIN	25	21	46	42	61	69	42	40	31	26	23	21
CFSM	1.05	1.01	1.66	3.56	2.82	3.44	1.26	2.19	.94	.73	.71	.73
IN.	1.21	1.13	1.92	4.11	2.94	3.97	1.41	2.52	1.05	.84	.81	.81

TENNESSEE RIVER BASIN

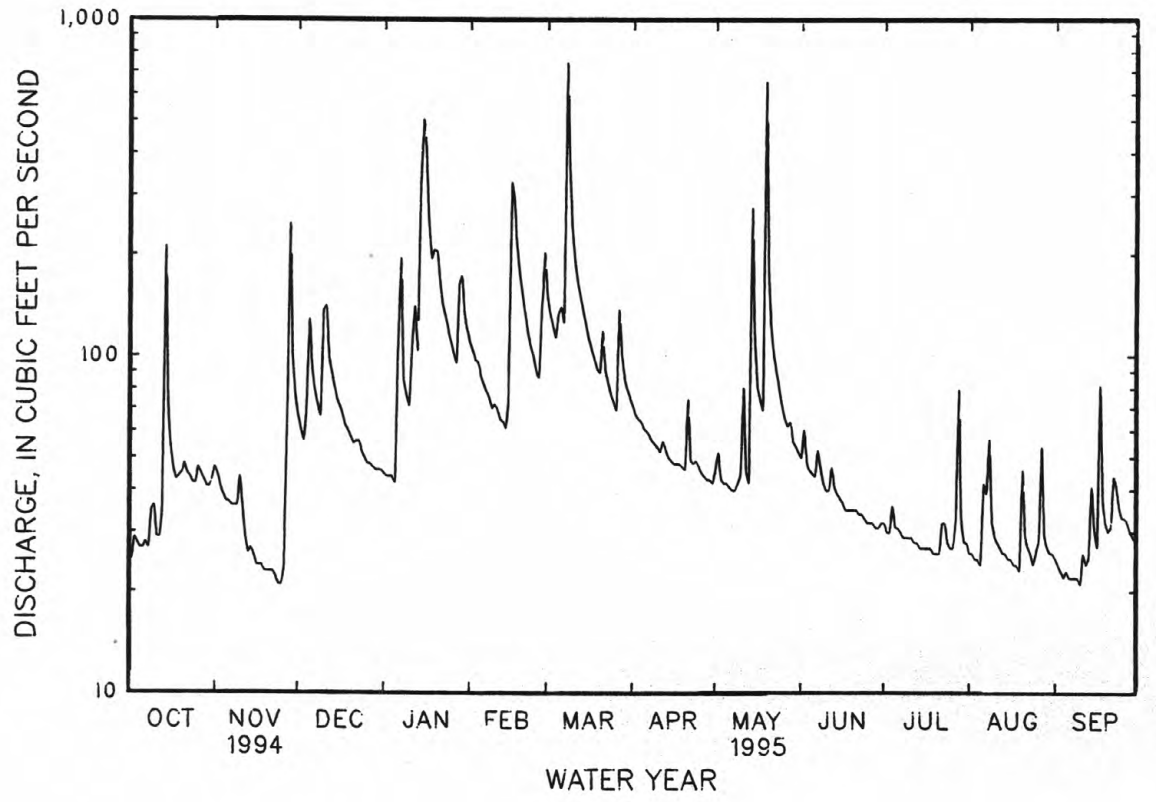
035661285 NORTH MOUSE CREEK NEAR ROCKY MOUNT HOLLOW NEAR ATHENS, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	29.7	31.3	63.6	137	188	221	217	80.5	50.7	72.0	55.2	33.4
MAX	44.3	42.7	70.1	150	258	297	381	92.0	62.1	113	80.7	36.2
(WY)	1995	1995	1995	1995	1994	1994	1994	1995	1994	1994	1994	1994
MIN	15.1	20.0	57.2	125	119	145	53.1	69.0	39.4	30.7	29.7	30.5
(WY)	1994	1994	1994	1994	1995	1995	1995	1994	1995	1995	1995	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1994 - 1995	
ANNUAL TOTAL	47630		25706			
ANNUAL MEAN	130		70.4		97.7	
HIGHEST ANNUAL MEAN					125	1994
LOWEST ANNUAL MEAN					70.4	1995
HIGHEST DAILY MEAN	2580	Apr 11	747	Mar 8	2580	Apr 11 1994
LOWEST DAILY MEAN	21	Nov 24	a21	Nov 24	13	Oct 28 1993
ANNUAL SEVEN-DAY MINIMUM	22	Nov 19	22	Sep 4	14	Nov 8 1993
INSTANTANEOUS PEAK FLOW			1410	May 19	5790	Apr 11 1994
INSTANTANEOUS PEAK STAGE			12.70	May 19	15.74	Apr 11 1994
INSTANTANEOUS LOW FLOW			a21	Nov 24	b12	Oct 28 1993
ANNUAL RUNOFF (CFSM)	3.10		1.67		2.32	
ANNUAL RUNOFF (INCHES)	42.09		22.71		31.55	
10 PERCENT EXCEEDS	234		136		172	
50 PERCENT EXCEEDS	69		46		53	
90 PERCENT EXCEEDS	34		26		23	

a Also occurred Nov. 25, and Sept. 10.
b Also occurred Oct. 29.



TENNESSEE RIVER BASIN

03568000 TENNESSEE RIVER AT CHATTANOOGA, TN

LOCATION.--Lat 35°05'12", long 85°16'43", Hamilton County, Hydrologic Unit 06020001, on right bank at Rivermont Golf and Country Club, 0.5 mi downstream from South Chickamauga Creek, 3.0 mi downstream from Chickamauga Dam, 3.5 mi upstream from Walnut Street Bridge in Chattanooga, and at mile 467.6.

DRAINAGE AREA.--21,400 mi², approximately.

PERIOD OF RECORD.--April 1874 to current year. Monthly discharges only for some periods, published in WSP 1306. July 1930 to December 1935, published as "at Hales Bar, near Chattanooga." Gage-height records collected in this vicinity since 1874 are contained in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 353: 1874-1912. WSP 783: 1917. WSP 823: 1875(M). WSP 973: 1942. WSP 1306: 1916(M). WSP 1386: 1932-34 (station at Hales Bar near Chattanooga).

GAGE.--Water-stage recorder. Datum of gage is 621.12 ft above sea level. Prior to Feb. 1, 1939, nonrecording or recording gages at several sites from 7.0 mi upstream from Chattanooga to Hales Bar Dam 33 mi downstream at or within 0.2 ft of present datum, except nonrecording gage at Bridgeport, AL, 49.9 mi downstream at different datum Oct. 22, 1913, to Feb. 28, 1915, and Oct. 1, 1918, to Jan. 5, 1921. Auxiliary gages at several sites parts of periods since Feb. 28, 1915. Present auxiliary gage at site 2.2 mi downstream from base gage at same datum.

REMARKS.--No estimated discharges. Records good. Flow regulated since 1936 by many upstream reservoirs (see p. 252 and Water Resources Data for adjoining states).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 410,000 ft³/s, Mar. 1, 1875, gage height, 53.8 ft, present datum, at Walnut Street, from rating curve extended above 250,000 ft³/s; minimum daily, 1,200 ft³/s, Nov. 1, 1953; minimum gage height, 0.0 ft, Sept. 11-14, 1881, Sept. 19, 1883.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 57.9 ft, Mar. 11, 1867, present datum at Walnut Street, discharge about 459,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 99,900 ft³/s, Feb. 18; maximum gage height, 22.78 ft, Feb. 18; minimum daily discharge, 5,740 ft³/s, May 6; minimum gage height, 11.29 ft, May 3.

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	43400	43200	44800	12000	53900	48700	17900	7610	20900	12300	31400	36800
2	41500	40200	41500	13400	51200	47900	16100	8450	19900	13500	25800	22100
3	42500	42000	44300	30700	46000	47400	14900	7150	11400	25800	30100	20200
4	40300	43900	45800	27900	45600	47300	14700	6830	17300	31600	34400	20700
5	40500	39300	34700	30400	45300	48100	11800	6300	26300	30900	26400	36500
6	41500	36800	40600	20900	45200	54200	11300	5740	19800	33900	17900	37900
7	35800	42300	40300	15800	45900	59700	11500	5780	17900	29600	30900	36700
8	33000	42900	38800	12800	45800	67800	14400	8650	17500	11400	37900	34300
9	24900	44000	46700	29100	46200	85900	11500	9900	23500	9940	43600	24300
10	38700	44100	41100	30200	45800	92900	10500	9000	25100	27900	39100	20200
11	38200	44900	46600	33700	31900	91300	11300	8380	13500	30300	33500	31800
12	39000	39600	48700	36500	29200	88700	10500	17800	9020	30500	28300	35300
13	44500	25400	47800	45000	42300	86500	9640	8280	21100	33500	28900	36100
14	46200	34300	47500	47800	37100	79400	9610	8750	24300	34600	38800	36300
15	47200	40100	47100	61100	28000	67200	8910	21400	25100	18100	39100	28900
16	45800	38700	47000	90400	42400	60000	8770	29700	11700	11000	38300	26900
17	40300	41300	46800	98400	73100	44200	9080	28600	6240	20000	33800	31100
18	41800	43200	42100	97600	97200	43100	9970	22300	5790	29000	29600	39300
19	40300	23800	39200	91600	88700	42600	9580	27600	15400	37300	29700	40200
20	42800	12100	31000	83600	84700	43400	9370	27600	18000	25400	32000	39100
21	44000	38000	32500	79900	82500	41500	10400	30000	23500	21900	32700	38100
22	42600	36900	32500	79200	77600	43600	9460	27700	21200	8840	33700	34700
23	41700	40600	39600	73600	71700	35900	9710	15600	25800	8380	26300	35700
24	38100	25000	22200	64700	67200	33100	9300	13900	14200	16100	25500	42200
25	44700	21700	15400	60900	59200	19000	10300	16000	9980	21000	25200	42500
26	45200	22100	28000	53900	59300	12800	8510	7570	19600	19600	24200	39700
27	41600	22300	27500	55300	59100	21000	8950	6750	24400	17200	17900	38700
28	44500	43500	25500	58800	56700	23400	9460	8030	30000	17600	37600	37800
29	44500	44000	14700	59700	---	24600	9740	12500	30000	14200	38300	32700
30	44600	41000	14200	58900	---	25200	9180	15700	30200	21200	39600	42600
31	44600	---	13200	57100	---	13200	---	16300	---	25100	37300	---
TOTAL	1284300	1097200	1127700	1610900	1558800	1539600	326340	445870	578630	687660	987800	1019400
MEAN	41430	36570	36380	51960	55670	49660	10880	14380	19290	22180	31860	33980
MAX	47200	44900	48700	98400	97200	92900	17900	30000	30200	37300	43600	42600
MIN	24900	12100	13200	12000	28000	12800	8510	5740	5790	8380	17900	20200

TENNESSEE RIVER BASIN

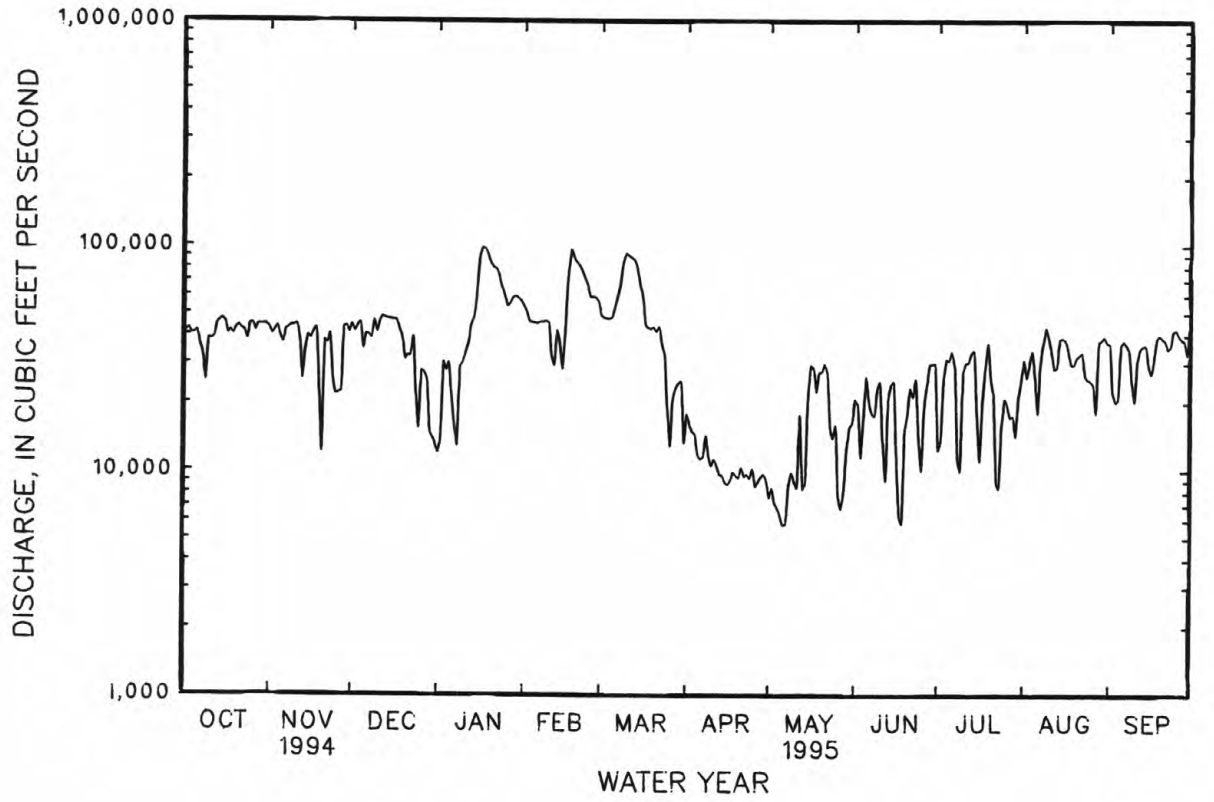
03568000 TENNESSEE RIVER AT CHATTANOOGA, TN--Continued

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

MEAN	28890	34040	44770	48780	50100	47180	28740	28260	29110	29660	31290	28650
MAX	63270	68330	94270	127900	132800	98850	107700	87890	65280	49670	41590	42140
(WY)	1990	1958	1973	1974	1957	1963	1994	1984	1989	1989	1994	1967
MIN	16690	16340	13660	17370	22570	14380	7503	7805	11310	11230	12740	14090
(WY)	1984	1988	1988	1986	1986	1988	1986	1988	1988	1988	1988	1968

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		*WATER YEARS 1954 - 1995	
ANNUAL TOTAL	18985630		12264200			
ANNUAL MEAN	52020		33600		35740	
HIGHEST ANNUAL MEAN					53260	1973
LOWEST ANNUAL MEAN					15070	1988
HIGHEST DAILY MEAN	182000	Mar 29	98400	Jan 17	251000	Mar 18 1973
LOWEST DAILY MEAN	9290	May 28	5740	May 6	1200	Nov 1 1953
ANNUAL SEVEN-DAY MINIMUM	13600	May 25	6840	May 1	6790	May 29 1986
INSTANTANEOUS PEAK FLOW			99900	Feb 18	267000	Mar 18 1973
INSTANTANEOUS PEAK STAGE			22.78	Feb 18	38.98	Mar 18 1973
10 PERCENT EXCEEDS	110000		56900		57500	
50 PERCENT EXCEEDS	42200		32700		31200	
90 PERCENT EXCEEDS	24500		9920		16100	

* Regulated period only.



Map number	Station number	Station name	Page
145	03571800	BATTLE CREEK NEAR MONTEAGLE	332
146	03578455	BRADLEY CREEK TRIB AT AEDC NEAR MANCHESTER	196-199
147	03578600	BRUMALOW CREEK AT AEDC NEAR MANCHESTER	200-203
148	03578970	ROWLAND CREEK AT AEDC NEAR MANCHESTER	204-207
149	03579620	ROCK CREEK AT TULLAHOMA	208-209,377
150	03583300	RICHLAND CREEK NEAR CORNERSVILLE	332
151	03593005	TENNESSEE RIVER AT PICKWICK LANDING DAM	332
152	03593500	TENNESSEE RIVER AT SAVANNAH	210-211
153	035944242	OWL CREEK AT LEXINGTON	332
154	03597210	GARRISON FORK ABOVE L&N RAILROAD AT WARTRACE	212-213,377
155	03597300	WARTRACE CREEK ABOVE BELL BUCKLE	333
156	03597590	WARTRACE CREEK BELOW COUNTY ROAD AT WARTRACE	214-215,377
157	03597860	DUCK RIVER AT SHELBYVILLE	216-220
158	03598000	DUCK RIVER NEAR SHELBYVILLE	222-223,377
159	03598173	FALL CREEK NEAR DEASON	224-225
160	03598179	FALL CREEK NEAR HALLS MILLS	226-227
161	03598250	NORTH FORK CREEK NEAR POPLINS CROSSROAD	228-229
162	03599500	DUCK RIVER AT COLUMBIA	230-231,377
163	03600085	CARTERS CREEK AT PETTY LANE NEAR CARTERS CREEK	232
164	03600086	CARTERS CREEK TRIB NEAR CARTERS CREEK	233
165	03600088	CARTERS CREEK AT BUTLER ROAD AT CARTERS CREEK	234-236
166	03602170	WEST PINEY RIVER NEAR DICKSON	333
167	03602219	PINEY RIVER AT CEDAR HILL	237,377
168	03602500	PINEY RIVER AT VERNON	333
169	03604000	BUFFALO RIVER NEAR FLATWOODS	238-241
170	03604090	COON CREEK ABOVE CHOP HOLLOW NEAR HOHENWALD	333
171	03604580	BLUE CREEK NEAR NEW HOPE	333
172	03605078	CYPRESS CREEK AT CAMDEN, TN	242,379
173	03605555	TRACE CREEK ABOVE DENVER	333
174	03605880	CANE CREEK NEAR STEWART	333
175	03607198	CLIFTY CREEK AT CLIFTY ROAD	243-245,379
176	03607225	HOLLY FORK CREEK AT NOBLES	246-248,379
177	03607232	BEAVERDAM CREEK AT SULPHUR WELL ROAD	249-251,379

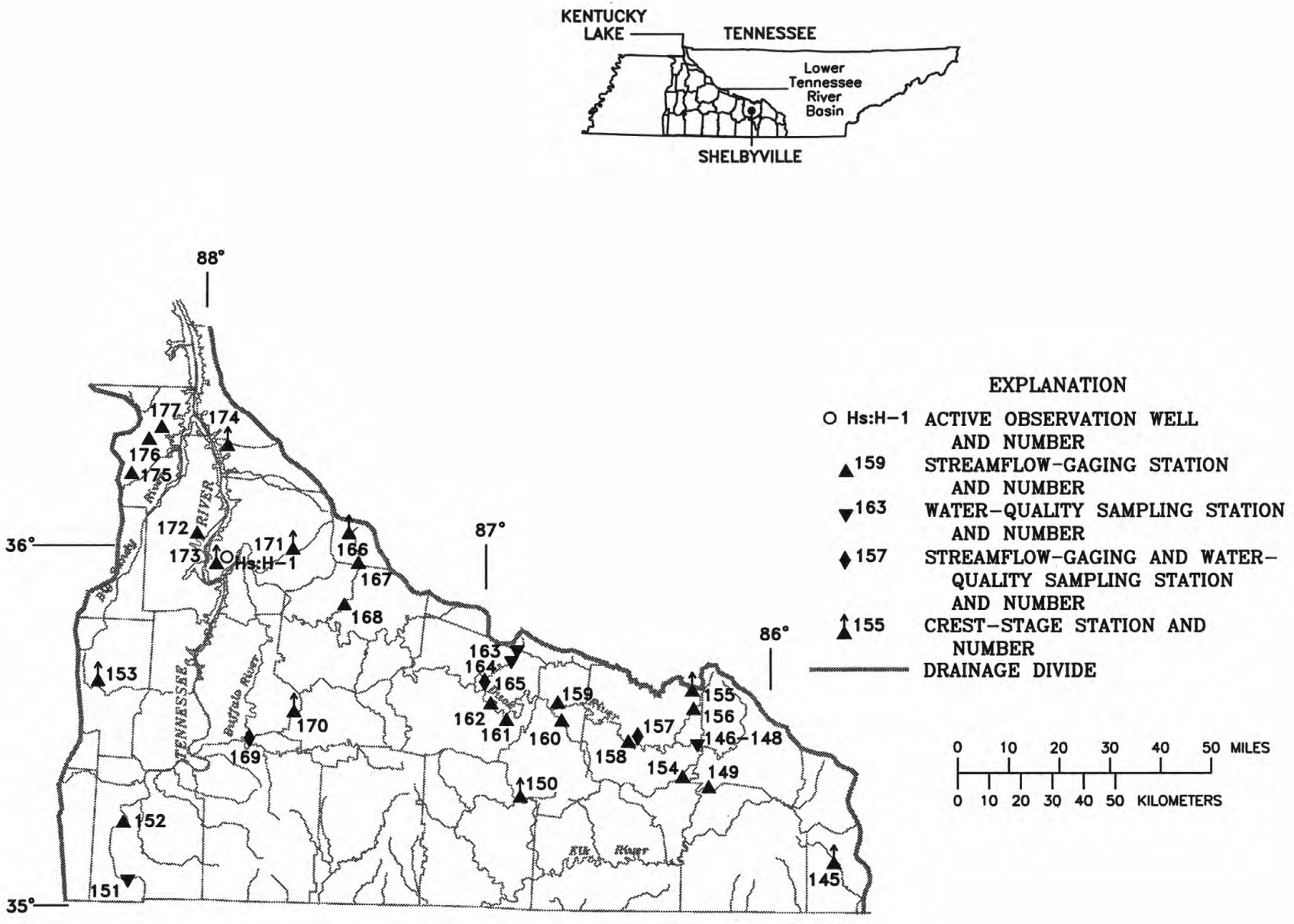


Figure 6.--Location of gaging sites in the lower Tennessee River Basin.

TENNESSEE RIVER BASIN

03578455 BRADLEY CREEK TRIBUTARY AT AEDC NEAR MANCHESTER, TN

LOCATION.--Lat 35°23'27", long 86°02'16", Coffee County, Hydrologic Unit 06030003, on right bank 0.4 mi northeast of fire station, 0.8 mi northwest of entrance gate to Arnold Engineering Development Center, 7.1 mi southwest of Manchester.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

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

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 1064.36 ft above sea level.

REMARKS.--Records good except those above 50 ft^3/s which are fair. Flow regulated by Arnold Engineering Development Center.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 195 ft^3/s, at 0730 hours Aug. 8, gage height 8.94 ft; minimum daily discharge, 0.84 ft^3/s, Sept. 3.

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	3.0	2.9	2.3	1.5	1.8	2.1	2.0	3.8	4.1	3.3	3.9	4.1
2	3.2	2.9	2.4	1.5	1.8	2.0	2.0	2.7	3.4	3.1	3.9	1.4
3	3.4	3.0	2.8	1.5	1.8	2.3	2.1	2.8	3.2	7.2	4.0	.84
4	3.0	3.1	6.8	1.7	1.7	2.4	2.2	3.2	3.2	3.7	4.0	1.3
5	3.0	5.1	3.2	1.7	1.7	8.7	2.3	3.0	3.5	3.4	5.4	3.7
6	2.9	2.9	2.5	5.1	1.8	3.8	2.2	2.7	3.7	3.3	6.2	4.0
7	3.0	2.7	2.6	1.9	1.9	6.0	2.2	2.9	3.6	3.2	4.2	4.0
8	3.0	2.8	2.4	1.7	1.8	8.7	2.2	3.2	3.8	3.2	20	4.1
9	4.7	3.4	2.4	1.8	1.9	1.8	2.3	4.9	3.7	3.1	5.1	4.0
10	2.7	3.1	4.9	1.8	2.4	2.8	2.3	4.1	3.7	3.4	5.4	4.0
11	2.7	3.1	2.4	3.5	1.8	2.4	2.4	3.4	4.2	3.4	5.6	6.2
12	3.3	2.9	2.0	2.0	1.8	2.3	2.6	3.0	3.4	3.5	4.9	4.2
13	5.6	2.6	2.0	2.0	1.9	2.5	2.2	3.1	3.0	3.5	5.2	4.8
14	4.0	2.7	2.4	4.9	2.1	2.5	2.1	3.2	3.1	3.3	5.6	5.4
15	2.7	2.8	1.9	2.2	2.2	2.8	2.0	3.3	3.2	2.2	5.2	4.1
16	2.7	2.7	1.8	1.7	6.2	2.6	2.0	3.1	3.1	.95	5.3	9.5
17	2.9	2.6	1.7	1.7	2.3	2.5	2.4	3.2	2.9	4.0	5.5	3.2
18	2.8	2.9	1.5	1.7	1.9	2.4	2.3	4.7	2.6	4.2	5.4	2.9
19	3.2	3.0	1.6	1.9	1.9	2.4	3.1	3.4	3.8	4.1	5.4	2.9
20	3.3	2.5	1.8	1.8	1.9	2.7	4.4	2.9	2.9	4.1	5.4	3.1
21	3.0	2.7	1.6	1.5	2.0	2.4	15	2.9	2.9	4.3	5.3	3.2
22	3.9	2.4	1.6	1.5	1.9	2.6	3.2	3.1	3.2	7.4	5.4	3.6
23	3.0	e2.3	1.5	1.6	2.4	2.7	3.5	3.1	3.5	4.3	4.8	2.4
24	2.8	e2.4	1.5	1.6	2.0	2.5	2.9	3.3	3.0	4.7	5.2	2.5
25	2.8	e2.5	1.5	1.6	1.8	2.3	2.7	3.2	3.0	4.3	5.4	2.6
26	2.8	e2.5	1.5	1.6	1.8	2.3	2.9	3.1	3.2	4.2	4.9	2.9
27	2.8	e3.4	1.4	1.7	2.2	4.4	3.0	1.3	3.1	4.4	5.2	2.6
28	2.8	e2.9	1.5	3.1	3.4	2.4	2.7	3.2	3.2	4.1	4.7	2.5
29	2.8	2.4	1.5	1.9	---	2.3	2.6	3.2	3.3	4.3	4.2	2.7
30	2.9	2.4	1.5	1.8	---	2.2	2.8	3.1	9.4	4.1	4.2	2.6
31	3.1	---	1.5	1.7	---	2.2	---	3.3	---	3.9	4.2	---
TOTAL	97.8	85.6	68.0	63.2	60.1	94.0	88.6	99.4	105.9	120.15	169.1	105.34
MEAN	3.15	2.85	2.19	2.04	2.15	3.03	2.95	3.21	3.53	3.88	5.45	3.51
MAX	5.6	5.1	6.8	5.1	6.2	8.7	15	4.9	9.4	7.4	20	9.5
MIN	2.7	2.3	1.4	1.5	1.7	1.8	2.0	1.3	2.6	.95	3.9	.84

CAL YR 1994 TOTAL 1299.89 MEAN 3.56 MAX 60 MIN .65
WTR YR 1995 TOTAL 1157.19 MEAN 3.17 MAX 20 MIN .84

e Estimated

TENNESSEE RIVER BASIN

03578455 BRADLEY CREEK TRIBUTARY AT AEDC NEAR MANCHESTER, TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1993 to May 1995 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April 1993 to May 1995 (discontinued).
pH: April 1993 to May 1995 (discontinued).

INSTRUMENTATION.--Water-quality monitor since April 1993.

REMARKS.--Records good. Interruptions in the record were due to equipment malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 30.8°C, June 17, 1993; minimum, 0.8°C, Jan. 17, 1994.
pH: Maximum, 9.9 units, Apr. 14, 1994; minimum 5.2 units, Sept. 15, 1993.

EXTREMES FOR CURRENT PERIOD.--
WATER TEMPERATURE: Maximum, 27.4°C, May 17; minimum, 4.7°C, Mar. 9.
pH: Maximum, 9.7 units, Feb. 26; minimum, 6.3 units, Jan. 6, 7, 8.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO MAY 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	25.5	21.0	22.9	20.6	14.3	17.1	16.8	11.9	13.9	12.4	9.0	11.1
2	25.2	22.5	23.9	18.6	12.9	16.3	16.0	12.3	13.5	11.4	7.3	8.4
3	26.9	22.9	24.2	20.0	15.9	18.1	15.8	13.2	14.5	10.8	7.3	8.9
4	24.7	20.2	22.6	20.5	18.1	19.3	15.6	14.2	15.1	11.2	7.3	9.2
5	23.2	19.5	20.8	23.2	18.3	20.8	16.8	15.4	15.9	11.2	6.5	8.2
6	24.2	19.7	21.5	20.3	16.0	19.0	16.4	14.0	15.4	10.8	5.7	8.3
7	23.8	21.1	22.1	20.9	15.8	18.0	17.0	14.0	15.4	9.0	7.3	8.2
8	24.5	20.8	22.4	20.7	16.8	18.4	16.4	14.8	15.5	12.6	7.3	9.3
9	22.9	18.6	21.0	20.9	18.1	19.2	17.0	15.0	15.9	13.9	9.4	11.0
10	23.3	18.8	20.2	19.7	17.6	18.8	15.2	11.1	13.9	12.9	8.6	10.5
11	21.9	17.3	19.6	20.1	16.6	18.1	13.2	10.7	12.1	11.8	10.2	11.2
12	20.7	17.8	19.2	20.0	15.3	18.1	14.2	10.5	12.5	14.3	11.8	13.1
13	21.3	17.6	19.4	20.4	14.7	17.3	14.4	9.3	11.1	13.9	12.0	12.9
14	23.0	17.4	20.7	21.4	16.9	18.8	14.9	10.2	12.3	13.5	12.4	12.8
15	22.0	19.4	20.8	21.4	16.9	18.8	14.6	11.6	13.2	12.6	11.0	11.6
16	23.0	18.2	20.5	20.1	16.9	18.2	14.4	13.4	14.0	12.4	9.4	11.0
17	22.3	17.7	19.9	20.3	17.0	18.3	14.8	12.1	13.9	14.3	8.2	10.8
18	22.1	18.9	20.4	17.6	15.3	16.6	12.6	11.4	11.9	14.7	11.0	12.7
19	21.8	20.3	20.8	17.8	14.5	15.8	15.9	10.4	12.2	13.9	10.0	12.4
20	23.3	20.3	22.2	18.6	15.7	16.8	15.7	10.4	12.1	10.6	9.2	10.0
21	23.6	19.1	21.0	20.9	15.8	18.0	15.2	10.5	12.6	11.0	8.3	9.6
22	23.0	20.1	21.7	---	---	---	15.0	13.0	13.7	12.8	8.3	10.2
23	21.6	17.8	20.6	---	---	---	13.8	11.1	12.4	12.6	9.7	10.6
24	21.0	15.5	17.8	---	---	---	12.7	11.1	11.5	13.6	8.1	9.9
25	19.7	15.7	17.4	---	---	---	13.0	9.1	10.9	13.4	8.3	9.8
26	20.1	15.4	17.2	---	---	---	13.8	8.3	10.1	13.3	8.2	9.9
27	17.4	12.7	15.0	---	---	---	14.0	8.3	10.2	11.4	8.8	10.4
28	20.8	15.7	17.6	---	---	---	14.1	8.3	10.5	14.1	8.6	11.4
29	21.0	14.5	18.0	---	---	---	12.7	10.0	11.0	11.2	8.8	9.8
30	21.9	18.8	20.2	14.6	10.3	11.7	13.5	10.8	11.9	9.6	8.6	9.1
31	22.9	20.5	21.5	---	---	---	11.8	11.0	11.3	12.6	7.3	9.2
MONTH	26.9	12.7	20.4	23.2	10.3	17.8	17.0	8.3	12.9	14.7	5.7	10.4

TENNESSEE RIVER BASIN

03578455 BRADLEY CREEK TRIBUTARY AT AEDC NEAR MANCHESTER, TN--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO MAY 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	14.1	8.4	10.4	13.3	10.5	11.9	20.5	12.6	15.3	20.9	17.9	19.3
2	15.1	10.4	11.9	11.8	10.1	10.8	21.9	13.6	16.3	20.1	16.6	18.2
3	16.2	10.6	12.5	12.0	10.0	11.2	22.4	13.6	17.0	24.0	15.2	19.0
4	11.1	8.5	9.7	15.8	11.1	12.7	22.4	15.5	18.1	20.9	17.6	19.1
5	11.7	6.4	8.7	12.3	9.2	10.8	20.5	13.9	16.4	21.8	18.0	20.0
6	10.5	5.2	7.6	13.1	11.0	12.2	23.0	14.6	17.7	22.2	16.1	19.2
7	10.6	8.0	9.2	17.6	10.4	14.4	24.7	16.0	19.1	24.7	18.2	21.0
8	12.0	6.5	8.3	10.4	7.1	8.0	24.7	16.7	19.4	25.9	20.2	22.4
9	11.8	6.3	8.8	12.1	4.7	7.4	25.1	17.5	20.0	23.1	21.8	22.4
10	10.2	7.1	9.1	15.0	5.0	10.0	26.1	17.8	20.8	25.6	21.1	22.7
11	10.9	9.4	10.0	17.3	9.4	12.2	21.8	19.8	20.6	24.6	20.7	22.2
12	12.9	7.4	9.0	17.5	10.1	12.8	24.3	17.1	19.6	24.4	19.3	21.3
13	10.9	8.1	9.4	17.6	11.9	14.2	23.8	16.6	19.0	24.2	20.5	22.5
14	10.6	8.7	9.3	19.0	12.9	15.3	24.2	15.2	18.7	25.4	23.4	24.3
15	12.2	9.4	11.2	19.4	13.2	15.4	22.2	15.9	18.7	26.2	22.8	24.5
16	12.2	8.7	9.7	18.8	14.1	16.0	25.2	17.7	20.6	25.8	21.5	23.5
17	11.9	8.7	10.4	19.5	14.8	16.5	23.4	19.1	20.8	27.4	23.4	24.8
18	14.1	10.5	12.4	20.5	13.8	16.0	25.1	20.7	22.5	25.8	20.8	24.2
19	15.1	12.2	13.2	20.7	13.2	16.1	26.1	21.2	23.0	23.9	20.8	22.7
20	17.4	10.7	13.1	20.6	15.1	16.9	23.1	19.6	21.6	26.7	19.6	22.2
21	14.8	10.1	11.6	22.0	14.7	17.2	23.1	17.5	19.8	26.5	19.4	22.3
22	16.9	8.8	12.4	21.2	15.3	17.8	20.6	18.2	19.3	---	---	---
23	16.5	11.8	13.6	23.3	17.0	19.1	20.0	16.9	18.7	---	---	---
24	15.8	10.5	12.1	21.1	15.0	17.1	20.8	16.5	17.9	---	---	---
25	16.4	9.1	11.7	21.7	13.4	16.6	22.7	15.3	18.3	---	---	---
26	18.1	10.8	13.5	22.6	15.6	18.5	23.7	16.3	19.3	---	---	---
27	15.6	13.5	14.7	21.7	15.9	18.4	21.8	18.2	19.7	---	---	---
28	16.0	13.3	14.6	21.6	14.3	17.1	22.5	17.0	19.0	---	---	---
29	---	---	---	19.2	14.1	16.0	24.6	16.0	19.4	---	---	---
30	---	---	---	20.8	14.5	16.4	22.7	18.5	20.0	---	---	---
31	---	---	---	19.2	14.1	16.0	---	---	---	---	---	---
MONTH	18.1	5.2	11.0	23.3	4.7	14.5	26.1	12.6	19.2	27.4	15.2	21.8

PH (STANDARD UNITS), WATER YEAR OCTOBER 1994 TO MAY 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.8	7.5	8.4	7.9	7.8	7.5	8.9	8.0	8.9	7.8	8.9	7.8
2	7.8	7.5	8.3	7.6	7.8	7.6	9.1	7.9	9.1	7.9	9.1	7.9
3	8.0	7.5	8.0	7.3	7.7	7.3	8.9	6.8	9.2	7.9	8.8	7.8
4	8.0	7.7	7.6	7.1	7.4	7.0	8.5	6.6	9.3	8.1	9.0	7.8
5	8.0	7.8	7.7	7.1	7.4	7.2	8.4	6.5	9.2	8.1	8.2	7.4
6	8.0	7.8	7.8	7.1	7.5	7.3	7.9	6.3	9.0	8.3	8.4	7.4
7	7.9	7.6	8.0	7.6	7.5	7.4	6.8	6.3	9.0	8.3	8.1	7.2
8	7.9	7.5	8.1	7.7	7.4	7.4	7.4	6.3	9.3	8.4	7.4	7.1
9	7.7	7.2	8.1	7.6	7.4	7.3	7.6	6.8	9.3	8.5	7.8	7.3
10	7.5	7.3	7.7	7.5	7.7	7.2	7.6	6.9	8.9	8.5	7.9	7.3
11	7.7	7.3	7.6	7.4	7.5	7.3	7.5	6.8	9.2	8.5	8.2	7.2
12	8.0	7.4	7.5	7.3	7.5	7.4	7.5	7.0	9.3	8.5	8.7	7.3
13	8.0	7.6	7.5	7.1	7.6	7.5	8.0	7.4	9.2	7.9	8.7	7.4
14	8.0	7.6	7.5	7.3	7.8	7.5	7.6	7.2	8.9	7.9	8.2	7.1
15	8.2	7.7	8.3	7.3	7.9	7.6	7.4	7.2	9.0	7.8	8.2	7.0
16	8.1	7.6	8.3	7.7	7.7	7.5	7.7	7.4	8.0	7.4	8.7	7.1
17	8.2	7.6	8.1	7.4	7.9	7.6	8.0	7.5	8.6	7.5	9.3	7.6
18	8.2	7.6	8.1	7.3	7.8	7.5	8.4	7.5	8.8	7.7	9.2	8.1
19	7.7	7.5	7.6	7.1	7.9	7.4	8.2	7.5	9.0	7.7	8.9	8.2
20	7.8	7.5	7.3	7.0	7.8	7.4	8.3	7.2	8.9	7.8	8.6	8.2
21	8.1	7.5	7.6	7.1	8.1	7.6	8.1	7.0	8.5	7.6	8.9	7.4
22	8.1	7.5	---	---	8.2	7.7	8.1	6.8	8.3	7.5	8.5	7.4
23	8.1	7.6	---	---	8.4	7.8	8.4	7.0	8.3	7.6	8.5	7.5
24	8.1	7.6	---	---	8.2	7.3	8.4	7.1	9.5	8.1	8.0	7.4
25	8.3	7.4	---	---	8.1	7.1	8.7	7.2	9.6	8.2	7.8	7.5
26	8.4	7.7	---	---	8.0	7.0	8.5	7.3	9.7	8.1	7.6	7.5
27	8.4	7.4	---	---	8.1	7.1	8.7	7.5	9.0	8.1	7.9	7.1
28	8.2	7.3	---	---	8.2	7.2	8.9	7.9	8.6	7.8	8.4	7.8
29	8.2	7.6	---	---	8.4	7.4	8.5	8.0	---	---	8.0	7.4
30	8.1	7.7	7.8	7.4	8.6	7.6	8.7	8.2	---	---	8.9	7.7
31	8.2	7.4	---	---	8.8	7.8	9.0	8.1	---	---	8.7	8.1
MONTH	8.4	7.2	8.4	7.0	8.8	7.0	9.1	6.3	9.7	7.4	9.3	7.0

TENNESSEE RIVER BASIN

03578455 BRADLEY CREEK TRIBUTARY AT AEDC NEAR MANCHESTER, TN--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1994 TO MAY 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.3	8.0	8.2	7.5	---	---	---	---	---	---	---	---
2	8.1	8.0	8.4	7.6	---	---	---	---	---	---	---	---
3	8.9	7.9	8.4	7.5	---	---	---	---	---	---	---	---
4	9.4	7.9	7.7	7.3	---	---	---	---	---	---	---	---
5	8.9	8.1	7.9	7.0	---	---	---	---	---	---	---	---
6	8.9	8.4	8.0	6.9	---	---	---	---	---	---	---	---
7	8.8	7.3	8.4	7.1	---	---	---	---	---	---	---	---
8	8.7	7.0	8.4	7.1	---	---	---	---	---	---	---	---
9	8.7	7.0	7.9	7.2	---	---	---	---	---	---	---	---
10	8.4	6.8	8.5	7.5	---	---	---	---	---	---	---	---
11	7.4	6.6	8.4	7.5	---	---	---	---	---	---	---	---
12	8.3	6.4	8.7	7.7	---	---	---	---	---	---	---	---
13	7.7	6.5	8.5	7.7	---	---	---	---	---	---	---	---
14	7.8	6.5	8.5	7.7	---	---	---	---	---	---	---	---
15	8.2	6.8	8.5	7.6	---	---	---	---	---	---	---	---
16	8.7	6.8	8.7	7.6	---	---	---	---	---	---	---	---
17	8.0	7.2	8.8	7.6	---	---	---	---	---	---	---	---
18	8.1	7.1	8.6	7.6	---	---	---	---	---	---	---	---
19	8.4	7.1	8.4	7.4	---	---	---	---	---	---	---	---
20	8.2	6.9	8.4	7.2	---	---	---	---	---	---	---	---
21	7.8	6.6	8.6	7.3	---	---	---	---	---	---	---	---
22	7.6	7.3	---	---	---	---	---	---	---	---	---	---
23	7.3	7.0	---	---	---	---	---	---	---	---	---	---
24	7.8	6.8	---	---	---	---	---	---	---	---	---	---
25	8.3	7.1	---	---	---	---	---	---	---	---	---	---
26	8.0	7.1	---	---	---	---	---	---	---	---	---	---
27	8.4	7.2	---	---	---	---	---	---	---	---	---	---
28	8.7	7.3	---	---	---	---	---	---	---	---	---	---
29	8.2	7.3	---	---	---	---	---	---	---	---	---	---
30	7.7	7.1	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	9.4	6.4	8.8	6.9	---	---	---	---	---	---	---	---

TENNESSEE RIVER BASIN

03578600 BRUMALOW CREEK AT AEDC NEAR MANCHESTER, TN

LOCATION.--Lat 35°22'20", long 86°02'33", Coffee County, Hydrologic Unit 06030003, on right bank 200 ft upstream from culvert under Avenue C, at Arnold Engineering Development Center, 7.1 mi southwest of Manchester.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

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

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 1080.10 ft above sea level.

REMARKS.--Records good except for those above 5 ft^3/s which are poor. Flow regulated by Arnold Engineering Development Center.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 107 ft^3/s, at 0005 hours April 21, 1995, gage height, 3.44 ft; minimum daily discharge, 0.35 ft^3/s, Sept. 3, 1995.

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	.87	1.5	1.6	.90	1.1	1.0	1.1	1.5	1.7	1.1	1.3	1.1
2	1.1	2.2	1.6	1.0	1.1	1.3	1.1	1.3	2.0	1.2	1.3	1.3
3	1.1	1.4	1.6	1.2	1.1	1.3	1.2	.93	1.1	3.1	1.2	.35
4	.92	1.8	3.6	1.3	.92	1.1	1.1	1.5	1.0	1.5	1.3	.49
5	1.1	2.5	1.5	1.3	.93	3.8	1.1	1.4	1.0	1.4	2.0	1.0
6	1.5	1.2	3.2	3.0	.99	1.2	1.2	.92	1.2	1.3	2.8	1.2
7	1.4	2.2	1.6	1.0	.92	3.2	1.2	.78	1.2	1.6	1.3	1.1
8	.90	1.1	1.2	.95	1.0	4.5	.97	1.0	1.1	1.2	7.9	1.1
9	2.4	1.5	2.8	1.1	1.1	2.2	.92	2.0	1.1	1.2	1.5	1.1
10	1.2	1.3	2.7	1.1	1.3	2.8	1.2	1.8	1.1	1.2	1.4	1.1
11	1.4	1.2	1.1	2.3	1.0	1.5	1.6	1.6	1.6	1.2	1.4	2.0
12	1.7	1.0	1.3	1.0	1.1	1.3	1.4	1.1	1.1	1.2	1.3	1.2
13	3.1	.97	1.3	1.5	1.5	1.4	.76	.91	.93	1.3	1.3	1.8
14	2.1	1.2	1.1	2.8	1.5	1.5	.93	1.1	1.2	1.3	1.3	1.9
15	1.1	1.2	1.3	1.3	1.6	1.5	.73	.97	1.3	1.7	4.0	1.2
16	1.1	1.3	1.2	1.1	4.2	1.5	.71	1.3	2.2	.47	1.4	4.0
17	1.4	2.4	1.2	1.1	1.2	1.6	.98	1.4	4.7	1.2	1.2	1.3
18	1.6	1.1	1.4	.98	1.1	1.3	.81	3.2	4.8	1.2	1.8	1.3
19	1.5	1.1	1.4	1.0	1.1	1.1	1.5	1.3	5.1	1.2	1.2	1.4
20	2.0	1.2	1.2	.95	1.2	1.5	3.5	1.2	5.7	1.3	1.2	1.5
21	2.0	1.3	1.2	.90	1.4	1.1	4.6	1.4	4.8	1.7	1.2	1.5
22	1.8	1.8	1.2	.89	1.1	1.2	.93	e1.5	2.0	2.2	1.3	1.6
23	1.1	1.8	1.1	.92	1.3	1.3	1.3	e1.4	2.4	1.4	1.7	1.3
24	1.3	1.3	.95	.98	1.5	1.2	1.4	1.5	1.6	1.9	1.1	1.4
25	1.8	1.5	.90	1.0	1.1	1.1	1.1	1.6	1.2	1.2	1.3	1.4
26	1.6	.77	.90	1.1	1.0	1.1	1.2	2.1	1.2	1.2	1.2	1.4
27	1.6	4.8	.86	1.3	1.4	2.8	1.4	.62	1.2	1.2	1.6	1.3
28	1.4	2.2	.84	2.0	2.0	1.8	1.1	1.0	1.1	1.2	1.4	1.2
29	1.5	2.2	.84	.93	---	1.7	.82	.79	1.5	1.2	1.9	1.1
30	1.3	1.3	.85	1.1	---	1.8	.98	.88	3.9	1.2	1.2	1.1
31	2.8	---	.85	1.2	---	1.6	---	1.0	---	2.0	1.1	---
TOTAL	47.69	48.34	44.39	39.20	36.76	53.3	38.84	41.00	62.03	43.27	53.1	40.74
MEAN	1.54	1.61	1.43	1.26	1.31	1.72	1.29	1.32	2.07	1.40	1.71	1.36
MAX	3.1	4.8	3.6	3.0	4.2	4.5	4.6	3.2	5.7	3.1	7.9	4.0
MIN	.87	.77	.84	.89	.92	1.0	.71	.62	.93	.47	1.1	.35

CAL YR 1994 TOTAL 660.45 MEAN 1.81 MAX 11 MIN .30
WTR YR 1995 TOTAL 548.66 MEAN 1.50 MAX 7.9 MIN .35

e Estimated

TENNESSEE RIVER BASIN

03578600 BRUMALOW CREEK AT AEDC NEAR MANCHESTER, TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1993 to May 1995 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April 1993 to May 1995 (discontinued).
pH: April 1993 to May 1995 (discontinued).

INSTRUMENTATION.--Water-quality monitor since April 1993.

REMARKS.--Records good. Interruptions in the record were due to equipment malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 29.6°C, Aug. 10, 1994; minimum, 3.3°C, Jan. 17, 1994.
pH: Maximum, 11.1 units, Aug. 20, 1994; minimum 3.1 units, Apr. 9, 1994.

EXTREMES FOR CURRENT PERIOD.--
WATER TEMPERATURE: Maximum, 24.6°C, May 17; minimum, 7.3°C, Jan. 6.
pH: Maximum, 9.3 units, Apr. 19; minimum, 6.7 units, Jan. 14, 15, 16, 17.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO MAY 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22.5	20.7	21.7	21.5	16.0	17.6	19.8	16.5	18.4	14.7	12.7	14.2
2	24.2	22.3	23.3	21.5	14.4	17.9	18.5	15.0	16.1	13.5	12.2	12.8
3	24.1	22.8	23.4	21.8	18.2	19.9	17.4	15.4	16.6	16.3	12.9	14.4
4	24.5	20.6	22.4	22.2	19.4	20.2	18.6	14.6	16.7	16.1	14.9	15.4
5	21.2	19.0	20.1	23.1	18.4	21.6	18.8	17.5	18.3	18.8	14.3	16.2
6	22.2	20.4	21.3	22.0	18.2	20.2	18.0	16.1	17.4	18.2	7.3	14.4
7	22.6	19.8	21.4	21.6	17.3	19.5	19.9	16.1	18.2	18.0	12.7	15.1
8	22.9	20.4	22.0	20.3	18.3	19.5	19.1	17.4	18.2	19.4	14.7	17.6
9	22.9	18.0	21.5	20.7	18.7	19.9	19.5	17.2	18.9	21.0	16.5	18.9
10	21.8	19.4	20.7	21.3	18.9	20.1	18.8	14.5	16.2	18.7	14.9	16.5
11	22.2	17.8	19.8	20.5	18.1	19.4	18.4	14.7	16.8	18.5	12.1	16.6
12	21.4	17.5	19.0	19.9	17.1	18.6	20.5	17.6	18.6	19.9	17.9	19.2
13	21.0	17.5	19.3	20.6	16.3	18.5	18.3	14.0	15.1	19.1	15.2	16.9
14	22.4	17.8	21.2	22.9	18.8	20.5	17.3	14.9	16.3	17.6	14.2	15.7
15	22.2	20.2	21.2	21.4	19.2	20.3	18.0	15.7	16.7	17.2	14.6	15.7
16	22.4	18.6	21.0	21.0	19.0	20.0	19.0	16.7	17.7	17.0	11.3	15.5
17	21.4	18.4	19.8	21.8	17.8	19.9	18.2	15.5	16.8	16.7	10.9	14.2
18	21.4	18.6	20.2	18.8	17.1	18.3	17.4	15.2	16.1	19.0	16.7	17.8
19	23.3	20.6	21.1	18.2	16.5	17.4	18.9	16.4	17.5	19.5	14.2	16.8
20	24.5	21.6	23.1	21.0	18.0	18.8	17.2	14.2	15.1	16.6	13.4	14.7
21	24.0	20.2	21.9	21.8	16.3	20.1	18.5	14.0	15.9	16.8	15.2	15.9
22	23.6	19.5	22.3	20.4	16.3	18.0	18.1	16.3	17.1	19.4	16.4	18.2
23	22.3	19.3	21.4	21.8	17.3	19.5	17.6	13.3	15.0	19.2	14.3	17.1
24	19.3	17.2	18.5	17.3	14.9	15.6	14.7	13.5	14.2	17.1	14.7	15.8
25	19.1	16.0	17.3	14.9	13.7	14.3	14.3	12.0	13.0	14.8	12.1	13.4
26	19.4	15.9	17.3	16.5	12.9	15.1	13.1	11.6	12.2	16.8	12.6	15.2
27	18.2	12.4	14.8	17.1	12.4	15.4	13.3	11.8	12.4	16.8	14.2	15.2
28	20.4	18.0	19.1	16.9	13.5	15.3	13.7	11.6	12.7	17.4	10.2	14.6
29	21.9	14.7	18.5	18.4	14.5	15.9	13.9	12.9	13.3	14.9	13.1	14.1
30	23.2	19.1	21.0	18.2	13.7	14.7	14.5	13.5	14.1	14.7	13.3	13.7
31	22.8	21.3	22.1	---	---	---	14.5	13.9	14.4	17.5	11.9	14.2
MONTH	24.5	12.4	20.6	23.1	12.4	18.4	20.5	11.6	16.0	21.0	7.3	15.7

TENNESSEE RIVER BASIN

03578600 BRUMALOW CREEK AT AEDC NEAR MANCHESTER, TN--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO MAY 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	14.4	11.8	12.9	15.9	13.5	14.3	17.8	15.1	16.6	18.3	17.2	17.9
2	17.3	13.1	15.9	15.9	13.1	14.2	19.2	17.3	18.1	18.1	15.4	17.1
3	19.4	13.9	16.8	17.6	14.7	15.7	21.0	16.5	18.4	17.7	14.8	16.2
4	13.9	12.0	13.0	16.5	14.5	15.5	19.2	15.7	17.9	22.1	17.0	18.6
5	13.9	10.2	11.9	14.5	9.2	12.6	17.3	15.1	16.1	22.5	18.2	19.5
6	12.7	10.2	11.5	16.3	13.9	15.1	19.3	16.2	17.6	20.8	15.7	18.5
7	16.3	12.7	14.0	19.4	11.4	16.7	20.1	17.4	18.5	21.0	19.2	20.1
8	18.0	12.0	15.4	11.8	8.0	10.9	19.5	17.4	18.2	23.1	20.6	21.6
9	16.5	14.5	15.3	13.3	7.6	11.5	19.7	17.4	18.3	23.7	21.2	22.3
10	19.0	10.8	14.8	14.7	9.6	12.7	21.6	18.3	19.6	23.9	21.4	22.7
11	18.4	17.1	17.8	18.6	14.7	17.1	23.1	20.2	21.6	22.0	19.0	21.2
12	17.1	15.1	16.1	18.0	15.3	16.8	20.4	17.3	18.4	19.2	16.7	18.1
13	16.7	15.3	15.7	19.0	17.3	18.0	18.8	16.9	17.6	23.3	19.0	20.9
14	17.6	13.1	15.1	20.8	17.3	18.6	19.4	16.3	17.6	24.6	22.6	23.8
15	17.4	14.7	16.0	19.8	17.5	18.5	19.4	16.3	17.6	23.8	22.5	23.3
16	16.7	11.2	13.5	21.8	19.0	20.3	22.0	18.6	20.3	23.8	20.9	22.4
17	18.6	15.5	17.5	20.8	18.4	19.7	22.0	19.2	20.7	24.6	23.2	24.1
18	20.0	17.4	18.6	19.6	17.6	18.7	22.4	21.4	22.1	24.4	20.5	23.5
19	18.2	16.3	17.6	20.4	18.0	19.0	22.9	21.2	22.0	22.5	21.1	21.7
20	17.6	14.3	16.1	19.6	18.0	18.6	23.5	19.4	21.4	21.3	18.9	20.4
21	16.0	12.3	14.8	19.6	17.6	18.7	21.6	18.0	19.8	22.1	18.3	20.2
22	18.3	14.0	16.4	20.4	17.6	19.3	19.2	17.8	18.6	---	---	---
23	17.0	15.6	16.3	21.6	18.6	20.1	18.8	15.9	17.7	---	---	---
24	16.8	13.2	15.0	18.6	17.1	17.8	21.5	17.0	18.3	---	---	---
25	14.4	12.1	13.3	19.0	15.1	17.5	18.5	15.2	17.1	---	---	---
26	17.3	13.8	15.4	21.2	17.8	19.6	19.7	17.7	18.8	---	---	---
27	20.1	15.6	17.5	23.5	17.6	20.7	20.7	18.9	19.9	---	---	---
28	19.9	14.8	17.2	21.6	17.5	19.2	18.9	14.8	17.0	---	---	---
29	---	---	---	20.4	15.3	17.6	17.9	15.8	16.7	---	---	---
30	---	---	---	20.0	16.5	18.0	18.3	16.6	17.4	---	---	---
31	---	---	---	19.4	16.9	18.4	---	---	---	---	---	---
MONTH	20.1	10.2	15.4	23.5	7.6	17.1	23.5	14.8	18.7	24.6	14.8	20.7

PH (STANDARD UNITS), WATER YEAR OCTOBER 1994 TO MAY 1995

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

TENNESSEE RIVER BASIN

03578600 BRUMALOW CREEK AT AEDC NEAR MANCHESTER, TN--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1994 TO MAY 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.3	7.0	8.7	7.6	---	---	---	---	---	---	---	---
2	7.3	7.1	7.8	7.6	---	---	---	---	---	---	---	---
3	7.4	7.1	7.7	7.7	---	---	---	---	---	---	---	---
4	7.5	7.2	8.4	7.7	---	---	---	---	---	---	---	---
5	7.5	7.2	7.8	7.6	---	---	---	---	---	---	---	---
6	7.5	7.3	7.8	7.7	---	---	---	---	---	---	---	---
7	7.7	7.3	7.9	7.6	---	---	---	---	---	---	---	---
8	7.7	7.4	7.8	7.6	---	---	---	---	---	---	---	---
9	7.7	7.5	8.2	7.5	---	---	---	---	---	---	---	---
10	7.7	7.4	7.9	7.7	---	---	---	---	---	---	---	---
11	7.6	7.4	7.8	7.7	---	---	---	---	---	---	---	---
12	8.4	7.3	7.8	7.7	---	---	---	---	---	---	---	---
13	7.8	7.6	7.8	7.7	---	---	---	---	---	---	---	---
14	7.8	7.6	7.7	7.6	---	---	---	---	---	---	---	---
15	7.8	7.6	7.6	7.6	---	---	---	---	---	---	---	---
16	7.8	7.6	7.7	7.5	---	---	---	---	---	---	---	---
17	7.8	7.5	7.7	7.6	---	---	---	---	---	---	---	---
18	7.6	7.3	8.2	7.6	---	---	---	---	---	---	---	---
19	9.3	7.3	7.7	7.6	---	---	---	---	---	---	---	---
20	8.4	7.6	7.7	7.5	---	---	---	---	---	---	---	---
21	8.2	7.3	7.7	7.5	---	---	---	---	---	---	---	---
22	7.6	7.5	---	---	---	---	---	---	---	---	---	---
23	7.6	7.5	---	---	---	---	---	---	---	---	---	---
24	7.8	7.5	---	---	---	---	---	---	---	---	---	---
25	7.7	7.6	---	---	---	---	---	---	---	---	---	---
26	7.9	7.6	---	---	---	---	---	---	---	---	---	---
27	7.8	7.6	---	---	---	---	---	---	---	---	---	---
28	7.8	7.6	---	---	---	---	---	---	---	---	---	---
29	7.7	7.6	---	---	---	---	---	---	---	---	---	---
30	8.3	7.6	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	9.3	7.0	8.7	7.5	---	---	---	---	---	---	---	---

TENNESSEE RIVER BASIN

03578970 ROWLAND CREEK AT AEDC NEAR MANCHESTER, TN

LOCATION.--Lat 35°22'11", long 86°03'32", Coffee County, Hydrologic Unit 06030003, on right bank 100 ft above bridge on South Sixth Street, at Arnold Engineering Development Center, 7.2 mi southwest of Manchester.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 1065.17 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Arnold Engineering Development Center.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 346 ft³/s, at 1045 hours Sept. 22, gage height, 5.34 ft; minimum daily discharge, 0.11 ft³/s, Sept. 3.

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	148	91	34	111	88	72	28	67	14	157	120
2	53	51	150	30	104	101	85	e11	45	.38	167	30
3	118	108	130	30	72	82	109	173	10	103	184	.11
4	125	47	73	88	102	80	56	e143	10	159	130	5.8
5	79	13	60	34	103	71	98	48	86	62	118	17
6	54	6.0	87	88	89	76	33	55	201	27	80	85
7	49	24	136	48	110	64	30	31	51	9.8	76	127
8	56	88	60	21	151	69	49	132	40	47	205	53
9	143	106	109	35	87	34	40	40	127	14	100	115
10	122	97	28	85	86	90	88	115	160	29	244	79
11	54	114	26	25	73	49	34	33	114	87	249	55
12	143	100	128	29	58	42	14	38	110	264	191	63
13	88	12	142	58	135	105	54	11	103	207	167	67
14	98	13	113	69	128	109	29	19	112	169	153	20
15	21	118	98	53	105	140	13	141	88	132	118	11
16	16	34	63	50	80	87	11	53	102	55	65	39
17	79	24	102	82	129	40	9.2	7.0	20	68	65	82
18	13	105	28	27	32	41	e5.9	16	26	164	102	102
19	87	94	71	68	30	35	33	84	136	144	46	32
20	73	110	110	75	101	54	e14	17	95	75	37	25
21	21	81	33	19	149	e80	138	18	119	86	49	55
22	113	138	84	21	94	68	25	e27	138	123	167	241
23	14	90	92	82	148	19	12	e89	62	62	99	138
24	49	129	125	83	109	85	14	142	67	95	149	88
25	108	49	116	52	115	31	e54	e164	51	153	61	156
26	122	41	104	21	80	20	112	112	55	161	51	137
27	86	65	158	83	41	139	102	7.4	55	183	64	35
28	103	51	121	15	126	102	64	65	47	160	71	54
29	157	31	58	25	---	102	41	108	42	162	138	128
30	49	103	45	87	---	120	32	52	65	134	168	49
31	40	---	38	37	---	97	---	61	---	104	169	---
TOTAL	2421	2190.0	2779	1554	2748	2320	1471.1	2040.4	2404	3253.18	3840	2208.91
MEAN	78.1	73.0	89.6	50.1	98.1	74.8	49.0	65.8	80.1	105	124	73.6
MAX	157	148	158	88	151	140	138	173	201	264	249	241
MIN	13	6.0	26	15	30	19	5.9	7.0	10	.38	37	.11

e Estimated

TENNESSEE RIVER BASIN

03578970 ROWLAND CREEK AT AEDC NEAR MANCHESTER, TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1993 to May 1995 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: March 1993 to May 1995 (discontinued).
pH: March 1993 to May 1995 (discontinued).

INSTRUMENTATION.--Water-quality monitor since March 1993.

REMARKS.--Records good. Interruptions in the record were due to equipment malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 32.5°C, Aug. 12, 1994; minimum, 1.9°C, Jan. 19, 1994.
pH: Maximum, 8.6 units, Mar. 14, 1993, Nov. 17, 1994; minimum, 6.3 units, Mar. 15, 1995.

EXTREMES FOR CURRENT PERIOD.--
WATER TEMPERATURE: Maximum, 29.6°C, May 8; minimum, 2.4°C, Feb. 12.
pH: Maximum, 8.6 units, Nov. 17; minimum, 6.3 units, Mar. 15.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO MAY 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	23.8	21.3	22.3	23.8	17.3	21.2	18.8	12.2	15.7	9.7	7.9	9.0
2	23.3	22.2	22.7	24.0	15.6	19.3	19.4	12.6	15.4	9.3	7.2	7.8
3	26.9	22.2	24.0	20.4	15.2	17.8	19.6	11.2	14.0	9.4	7.2	8.3
4	26.9	22.6	24.1	25.7	17.7	21.9	12.9	11.4	12.1	13.4	8.3	9.9
5	26.7	21.4	24.1	25.5	19.1	21.1	13.7	12.2	13.2	8.9	7.4	7.9
6	27.3	21.4	23.7	19.5	16.4	18.7	18.8	13.1	14.7	11.6	7.1	8.4
7	27.5	21.0	23.2	24.7	13.6	18.0	19.9	13.0	15.4	19.2	6.8	7.9
8	23.9	21.2	22.3	23.1	17.7	20.1	16.8	13.4	14.1	8.1	6.4	7.0
9	25.7	22.0	23.9	23.3	19.0	21.7	19.5	13.2	15.9	9.1	6.7	7.3
10	24.3	20.4	23.0	22.6	18.4	20.7	17.4	12.5	13.6	10.6	6.7	7.9
11	25.5	18.2	21.6	22.4	17.6	20.1	12.7	11.5	12.1	13.8	7.4	8.1
12	26.1	19.2	22.4	28.0	18.0	21.4	15.8	11.3	12.9	8.9	7.5	8.3
13	24.9	20.4	22.3	20.8	17.5	18.6	15.8	10.9	13.8	12.4	7.3	9.6
14	25.9	19.2	22.3	21.0	17.5	18.9	16.1	11.0	12.7	11.0	9.3	9.6
15	24.1	21.0	22.5	23.7	17.3	19.8	16.1	10.6	12.7	9.5	8.1	8.9
16	24.1	20.2	21.8	23.7	17.1	19.7	18.0	9.8	12.7	8.7	7.6	8.1
17	25.7	19.8	21.8	20.2	16.7	18.0	17.8	9.2	13.0	15.7	7.0	9.6
18	23.7	19.0	20.9	21.4	17.3	19.6	13.5	10.2	11.7	12.2	9.0	9.7
19	24.5	20.0	21.7	21.4	15.1	18.2	14.9	10.0	11.2	13.6	8.9	10.9
20	23.5	18.5	20.6	15.1	13.9	14.4	17.8	9.8	12.9	11.9	8.7	9.9
21	23.6	16.6	20.3	16.7	13.9	15.0	20.0	10.0	11.1	10.9	7.9	8.7
22	22.8	19.7	21.8	24.7	13.7	17.5	17.1	10.4	12.2	9.0	7.8	8.3
23	22.6	18.4	20.0	21.8	13.0	15.0	14.1	9.2	10.7	11.6	7.7	8.7
24	22.2	16.0	19.3	15.4	13.0	14.2	9.6	7.6	8.3	11.0	7.5	8.5
25	22.7	17.6	18.8	13.2	9.1	10.8	9.2	7.8	8.2	12.1	7.2	8.7
26	23.3	17.0	19.6	14.0	9.5	12.0	8.8	7.5	8.2	8.7	7.2	7.9
27	18.4	15.3	16.7	14.8	12.8	13.6	9.0	8.4	8.7	14.0	7.4	8.9
28	22.3	15.3	18.2	14.8	12.3	13.5	9.1	8.2	8.7	9.8	8.2	8.9
29	22.7	19.3	22.0	17.6	11.9	14.5	9.1	8.1	8.6	8.4	7.3	7.7
30	19.3	15.0	---	17.6	12.8	13.9	9.7	8.3	8.9	15.1	7.1	8.8
31	24.3	17.6	---	---	---	---	9.1	8.5	8.8	15.4	6.8	8.3
MONTH	27.5	15.0	21.7	28.0	9.1	17.6	20.0	7.5	12.0	19.2	6.4	8.6

TENNESSEE RIVER BASIN

03578970 ROWLAND CREEK AT AEDC NEAR MANCHESTER, TN--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO MAY 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.3	6.8	8.2	13.7	8.4	10.1	17.3	14.9	15.9	20.8	17.6	19.5
2	16.1	7.6	9.6	10.8	8.0	9.1	18.2	14.9	16.3	20.0	15.7	18.0
3	10.6	7.6	9.1	11.2	7.5	8.6	19.4	15.1	16.6	23.5	17.5	20.1
4	7.6	6.1	6.9	9.8	7.1	8.2	18.7	15.6	16.8	29.2	18.6	21.3
5	6.7	4.5	5.7	9.4	8.0	8.7	25.7	14.4	16.7	23.5	19.0	21.4
6	8.2	4.1	5.7	14.5	9.0	11.2	18.2	15.3	16.4	21.8	17.6	19.7
7	10.6	5.3	7.3	13.1	10.4	11.5	21.8	15.4	17.6	22.7	18.2	20.4
8	10.8	5.3	7.3	11.5	8.5	9.8	19.8	16.0	17.5	29.6	19.2	22.7
9	9.4	4.9	6.1	12.1	5.8	8.5	20.9	16.6	18.1	24.5	21.0	22.3
10	11.8	4.7	7.0	14.2	6.2	10.5	25.5	17.3	21.5	29.4	20.8	22.7
11	4.7	3.1	4.2	14.2	7.7	9.6	25.7	18.9	20.0	24.7	21.6	22.9
12	4.9	2.4	3.5	12.5	8.5	10.1	22.6	18.8	20.1	24.1	20.2	22.7
13	11.6	2.9	6.1	14.0	9.1	11.8	26.0	18.6	22.4	23.5	19.8	22.0
14	17.3	4.5	6.9	20.7	11.3	13.6	25.2	17.9	20.6	25.0	22.6	23.6
15	9.9	5.7	7.6	20.9	11.9	14.2	21.6	17.9	19.3	28.5	23.6	25.2
16	10.1	5.6	6.9	16.3	12.2	13.6	22.5	18.2	19.9	27.2	22.1	24.3
17	16.4	5.6	8.0	17.3	13.3	14.5	21.7	18.8	20.1	26.8	23.0	24.8
18	9.1	6.0	6.7	17.5	13.1	15.0	23.0	18.7	20.7	25.2	21.7	23.7
19	7.8	5.8	6.9	17.1	13.3	14.6	26.9	19.5	22.3	26.6	21.1	23.4
20	12.9	6.7	8.5	17.9	13.5	15.2	21.6	20.4	21.0	25.2	21.7	23.2
21	15.3	7.1	9.6	22.1	14.0	18.6	27.3	18.4	23.0	25.2	19.3	22.6
22	13.5	7.4	8.5	21.9	15.4	18.2	27.8	20.6	22.7	27.6	22.8	24.9
23	18.3	8.1	11.0	20.7	16.4	17.6	21.8	19.4	20.4	---	---	---
24	15.0	8.1	10.1	23.8	15.8	20.2	21.2	18.8	19.9	---	---	---
25	10.1	7.9	8.7	21.1	14.6	16.4	21.0	18.0	19.5	---	---	---
26	10.9	7.9	9.2	17.9	14.8	16.0	29.0	17.8	22.1	---	---	---
27	10.8	9.0	9.9	23.8	15.6	18.5	28.0	18.6	21.4	---	---	---
28	23.1	9.6	11.8	23.4	16.6	21.1	21.6	16.7	18.9	---	---	---
29	---	---	---	22.5	16.4	18.6	22.4	17.3	19.3	---	---	---
30	---	---	---	20.2	16.1	18.2	22.2	18.0	19.6	---	---	---
31	---	---	---	17.3	15.3	16.4	---	---	---	---	---	---
MONTH	23.1	2.4	7.7	23.8	5.8	13.8	29.0	14.4	19.6	29.6	15.7	22.3

PH (STANDARD UNITS), WATER YEAR OCTOBER 1994 TO MAY 1995

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

TENNESSEE RIVER BASIN

03578970 ROWLAND CREEK AT AEDC NEAR MANCHESTER, TN--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1994 TO MAY 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.1	7.5	8.0	7.2	---	---	---	---	---	---	---	---
2	8.1	7.9	7.6	7.2	---	---	---	---	---	---	---	---
3	8.3	8.0	7.7	7.1	---	---	---	---	---	---	---	---
4	8.2	8.0	8.3	7.0	---	---	---	---	---	---	---	---
5	8.1	7.6	8.5	7.1	---	---	---	---	---	---	---	---
6	7.7	7.5	8.5	7.9	---	---	---	---	---	---	---	---
7	7.9	7.5	8.3	7.2	---	---	---	---	---	---	---	---
8	7.9	7.5	8.1	6.9	---	---	---	---	---	---	---	---
9	7.6	7.2	8.2	7.3	---	---	---	---	---	---	---	---
10	7.3	7.1	8.3	7.0	---	---	---	---	---	---	---	---
11	7.4	7.2	8.0	7.1	---	---	---	---	---	---	---	---
12	8.3	7.3	8.0	7.1	---	---	---	---	---	---	---	---
13	8.4	7.3	7.7	7.1	---	---	---	---	---	---	---	---
14	8.2	7.4	7.6	7.1	---	---	---	---	---	---	---	---
15	8.1	7.7	8.2	7.3	---	---	---	---	---	---	---	---
16	8.0	7.7	8.1	7.3	---	---	---	---	---	---	---	---
17	8.0	7.7	7.8	7.1	---	---	---	---	---	---	---	---
18	8.1	7.7	7.9	7.1	---	---	---	---	---	---	---	---
19	8.2	7.8	8.5	7.2	---	---	---	---	---	---	---	---
20	8.5	7.8	8.0	7.2	---	---	---	---	---	---	---	---
21	8.5	8.0	8.2	7.1	---	---	---	---	---	---	---	---
22	8.4	7.7	8.1	7.0	---	---	---	---	---	---	---	---
23	7.7	7.5	---	---	---	---	---	---	---	---	---	---
24	7.7	7.5	---	---	---	---	---	---	---	---	---	---
25	7.7	7.4	---	---	---	---	---	---	---	---	---	---
26	7.4	7.0	---	---	---	---	---	---	---	---	---	---
27	7.2	7.1	---	---	---	---	---	---	---	---	---	---
28	7.2	7.1	---	---	---	---	---	---	---	---	---	---
29	7.2	7.0	---	---	---	---	---	---	---	---	---	---
30	8.0	7.0	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	8.5	7.0	8.5	6.9	---	---	---	---	---	---	---	---

TENNESSEE RIVER BASIN

03579620 ROCK CREEK AT TULLAHOMA, TN

LOCATION.--Lat 35°21'34", long 86°12'47", Coffee County, Hydrologic Unit 06040002, on downstream side of bridge on Lincoln Street, 0.2 mi southwest of intersection of US Highway 41A and Lincoln Street, 0.9 mi downstream from the confluence of North Fork and West Fork Rock Creek, and at mile 12.3.

DRAINAGE AREA.--12.3 mi².

PERIOD OF RECORD.--October 1991 to current year. Occasional low-flow measurements, water years 1960, 1966-67, 1969-70.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 1013.00 ft above sea level.

REMARKS.--Records fair. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT PERIOD.--Peak discharges greater than base discharge of 800 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 21	0145	804	6.95	Aug. 20	1830	*1,030	*7.64

Minimum daily discharge, 1.0 ft³/s, Oct. 1, 4, 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	1.0	2.4	9.7	3.3	8.4	8.1	4.0	22	6.2	5.9	1.2	4.8
2	1.1	2.2	8.3	3.1	7.5	5.8	3.3	22	3.4	2.2	1.2	3.1
3	1.4	2.1	8.0	2.8	7.0	5.1	2.9	11	2.5	4.7	1.2	2.4
4	1.0	2.2	106	2.8	6.4	5.3	2.8	11	1.9	5.7	1.3	2.3
5	1.1	8.0	59	2.6	5.3	172	2.7	10	1.8	3.7	23	2.3
6	1.1	7.6	23	37	4.6	77	2.4	7.3	2.8	2.3	11	2.3
7	1.0	2.8	17	31	4.7	122	2.2	5.5	3.2	1.9	3.6	2.4
8	1.1	2.1	12	11	4.6	355	2.1	4.7	1.9	1.8	13	2.3
9	7.9	4.1	9.0	7.2	4.2	66	1.9	202	1.7	1.8	12	2.3
10	2.1	5.3	98	5.7	6.5	36	1.7	67	1.6	1.8	3.8	2.3
11	1.1	4.0	50	19	6.7	25	1.7	21	3.5	1.5	3.3	2.3
12	3.2	3.3	21	22	4.7	20	7.4	12	2.5	1.2	2.6	3.3
13	13	2.7	16	14	4.3	17	4.5	8.5	1.9	1.3	1.6	14
14	28	2.4	11	70	4.1	14	2.8	7.2	1.8	1.2	1.3	38
15	6.2	2.2	8.7	82	4.6	12	2.1	7.0	1.7	2.5	1.2	4.2
16	4.6	2.1	8.6	e55	101	9.8	1.8	5.5	1.7	1.8	1.2	55
17	3.6	11	8.9	e45	52	6.9	3.0	4.8	1.9	1.3	1.3	11
18	3.1	30	7.9	e35	22	6.0	2.8	5.7	2.0	1.3	1.2	6.2
19	3.1	2.0	6.3	e25	12	5.3	1.9	7.1	4.7	1.2	1.2	4.6
20	3.9	1.9	5.4	e20	9.9	6.3	13	4.6	3.3	1.2	156	4.2
21	3.3	1.8	5.0	12	8.3	9.0	338	3.6	2.0	1.3	14	3.8
22	5.0	1.5	4.8	9.2	7.0	7.8	23	3.0	1.9	1.4	5.3	9.0
23	4.6	1.4	4.7	8.4	6.1	8.1	20	2.7	2.1	3.2	3.9	5.7
24	3.3	1.4	4.4	7.0	5.0	6.4	18	2.4	2.2	4.2	3.4	4.9
25	2.8	1.5	4.2	5.8	4.6	5.3	12	2.3	2.3	1.7	3.1	4.4
26	2.5	3.0	3.9	5.3	4.4	5.4	8.8	2.2	2.9	1.2	3.0	4.2
27	2.5	e45	3.8	5.4	4.8	36	7.0	2.1	2.1	1.4	2.7	3.9
28	2.3	165	3.6	32	13	14	6.2	2.1	1.6	8.7	2.6	3.5
29	2.3	25	3.5	37	---	7.6	5.5	2.0	1.6	2.0	2.5	3.2
30	2.3	15	3.4	16	---	5.7	6.4	1.9	6.8	1.2	2.5	3.1
31	2.3	---	3.3	10	---	4.7	---	2.5	---	1.1	2.5	---
TOTAL	121.8	361.0	538.4	641.6	333.7	1084.6	511.9	472.7	77.5	73.7	287.7	215.0
MEAN	3.93	12.0	17.4	20.7	11.9	35.0	17.1	15.2	2.58	2.38	9.28	7.17
MAX	28	165	106	82	101	355	338	202	6.8	8.7	156	55
MIN	1.0	1.4	3.3	2.6	4.1	4.7	1.7	1.9	1.6	1.1	1.2	2.3
CFSM	.32	.98	1.41	1.68	.97	2.84	1.39	1.24	.21	.19	.75	.58
IN.	.37	1.09	1.63	1.94	1.01	3.28	1.55	1.43	.23	.22	.87	.65

e Estimated

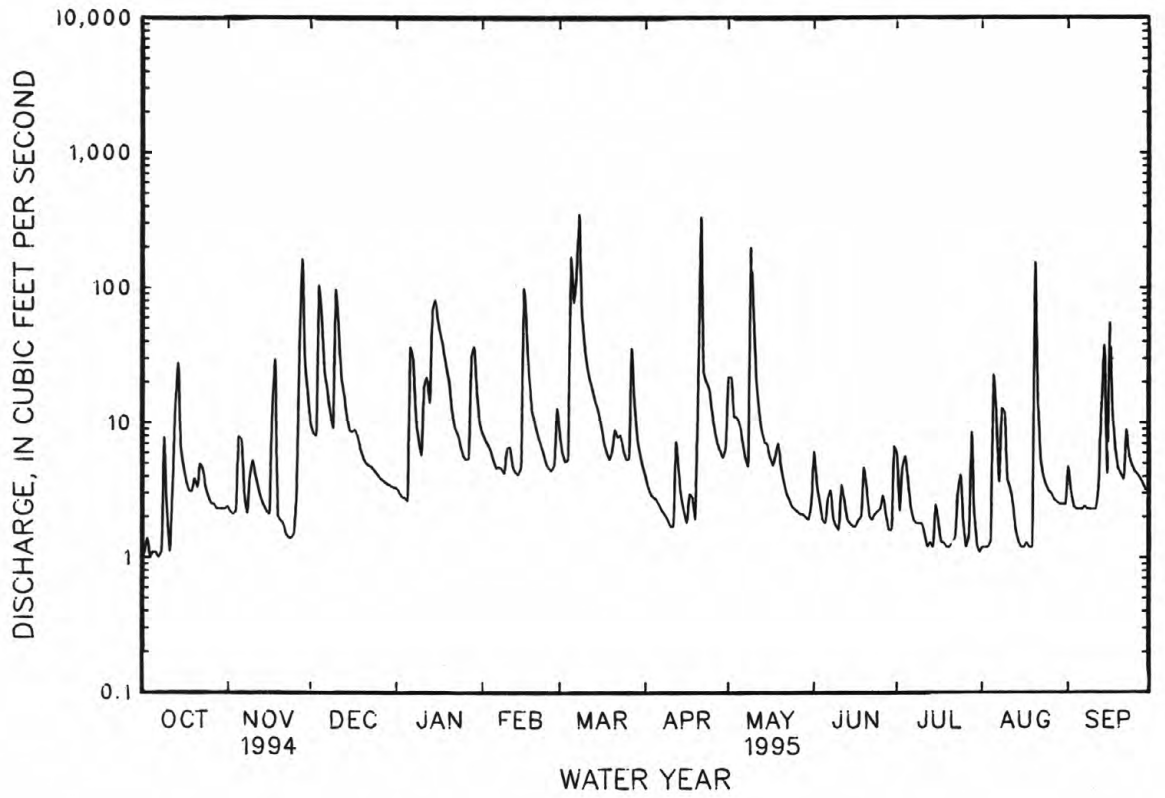
TENNESSEE RIVER BASIN

03579620 ROCK CREEK AT TULLAHOMA, TN--Continued

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

MEAN	2.65	12.2	38.8	28.4	38.0	52.0	30.8	14.1	5.64	2.32	5.64	8.88
MAX	4.15	26.9	93.5	37.5	108	101	57.9	31.4	11.7	2.83	9.28	25.1
(WY)	1993	1993	1992	1992	1994	1994	1994	1993	1992	1994	1995	1992
MIN	1.25	1.97	10.2	20.7	11.9	28.9	17.1	3.44	2.58	1.74	2.42	1.41
(WY)	1992	1994	1994	1995	1995	1992	1995	1992	1995	1993	1993	1993

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1992 - 1995	
ANNUAL TOTAL	10458.2		4719.6			
ANNUAL MEAN	28.7		12.9		19.9	
HIGHEST ANNUAL MEAN					27.0	1994
LOWEST ANNUAL MEAN					12.9	1995
HIGHEST DAILY MEAN	1110	Mar 27	355	Mar 8	1110	Mar 27 1994
LOWEST DAILY MEAN	1.0	Oct 1	1.0	Oct 1	.82	Oct 1 1993
ANNUAL SEVEN-DAY MINIMUM	1.1	Oct 1	1.1	Oct 1	.87	Sep 28 1993
INSTANTANEOUS PEAK FLOW			1030	Aug 20	2350	Apr 10 1994
INSTANTANEOUS PEAK STAGE			7.64	Aug 20	10.70	Apr 10 1994
ANNUAL RUNOFF (CFSM)	2.33		1.05		1.62	
ANNUAL RUNOFF (INCHES)	31.63		14.27		21.96	
10 PERCENT EXCEEDS	51		23		36	
50 PERCENT EXCEEDS	4.8		4.2		4.7	
90 PERCENT EXCEEDS	1.4		1.5		1.2	



TENNESSEE RIVER BASIN

03593500 TENNESSEE RIVER AT SAVANNAH, TN

LOCATION.--Lat 35°13'29", long 88°15'26", Hardin County, Hydrologic Unit 06040001, on right bank at upstream side of bridge on U.S. Highway 64, at Savannah, 16.8 mi downstream from Pickwick Landing Dam, and at mile 189.9.

DRAINAGE AREA.--33,140 mi² approximately.

PERIOD OF RECORD.--September 1930 to current year. Gage-height records collected in this vicinity since June 1905, are in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 853: Drainage area. WSP 1306: 1936 (monthly runoff). WSP 2110: 1966. WRD TN-74-1: 1973. WRD TN-85-1: 1973. WRD TN-90-1: 1989.

GAGE.--Data collection platform. Datum of gage is 350.06 ft above sea level (Levels by Tennessee Valley Authority). Prior to Oct. 1, 1992, at datum 50.06 ft lower, prior to Apr. 7, 1945, at datum 8.45 ft lower. Oct. 1, 1948 to Apr. 13, 1978 and Oct. 1, 1989 to present, auxiliary water-stage recorder on downstream end of lockwall in lower pool at Pickwick Landing Dam. Apr. 13, 1978 to Sept. 30, 1989, auxiliary water- stage recorder over tailwater elevation well adjacent to the powerhouse which is an integral part of Pickwick Landing Dam, both sites 16.8 mi. upstream from base gage at same datum. Apr. 5, 1937, to Jan. 31, 1939, auxiliary nonrecording gage 4.0 mi downstream and Feb. 1, 1939, to Sept. 30, 1948, water-stage recorder 4.3 mi downstream from base gage at same datum.

REMARKS.--Records fair. Slight regulation since 1924 by Wilson Lake and increasing regulation since 1936 as other reservoirs have been built above station ((see p. 252) and Water Resources Data for adjoining states).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1867, 101.2 ft, Mar. 21, 1897, datum then in use, from floodmarks, discharge, 450,000 ft³/s, from rating curve extended above 320,000 ft³/s. Flood of Jan. 2, 1927, reached a stage of 92.7 ft datum then in use, discharge, 349,000 ft³/s. Minimum stage since 1905, 38.8 ft datum then in use, Sept. 8, 1925.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 196,000 ft³/s, Mar. 9; maximum gage height, 25.48 ft, Mar. 10; minimum daily discharge, 7,860 ft³/s, May 13, minimum gage height, 4.54 ft, Apr. 2.

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	43200	50400	87600	19800	85200	86300	17300	28400	e18400	34200	38100	21200
2	38400	53700	87100	19900	62800	86200	16500	26200	e41200	31200	38200	29400
3	43400	54900	86800	36400	59900	67600	19500	22700	e15300	26700	36000	34300
4	49700	55600	87200	31500	48200	57400	15400	e16000	e21500	30400	48000	18500
5	41900	25900	95900	36000	43100	68400	15900	e16600	e40000	42100	14000	31100
6	54600	32000	109000	34000	61200	96000	14600	e8300	e11100	50500	26300	31600
7	58900	51200	115000	27600	61700	134000	15100	e8250	e10700	54100	52100	30200
8	38200	56600	110000	21500	58600	169000	15000	e18900	e18300	21900	50000	29400
9	18900	59700	94600	63100	57800	192000	15000	e29600	e40700	15100	64900	30800
10	32900	62500	89900	59500	44900	186000	15000	e45600	e22600	22700	78800	27600
11	31600	67000	91300	53800	45600	173000	15100	e30600	e11200	27100	63200	31000
12	50100	53900	89200	48300	49900	168000	15100	e15100	e9090	28300	22100	32600
13	61200	22600	88700	71600	57100	160000	10200	e7860	e23800	32500	25700	34600
14	60500	54500	88100	84400	51200	145000	10300	e7880	27000	40300	44700	34700
15	59300	59600	87200	86300	42600	135000	10100	e31500	22500	21200	45200	33500
16	59800	51800	86500	98900	65000	114000	10000	e40900	31900	17200	43500	29900
17	60200	49300	75900	126000	100000	88000	8420	e33300	16900	34600	35000	28700
18	58800	46500	39100	140000	140000	67700	8200	e27600	16700	30300	32400	50200
19	58800	27800	63100	152000	154000	66500	8170	e28000	13300	34500	23900	59600
20	60200	15300	57300	149000	156000	65600	8150	e37200	12700	19000	32900	57000
21	59600	46800	51300	125000	157000	66800	37600	e36600	16700	25100	29900	56100
22	46200	49400	52800	116000	156000	64100	69700	e35800	24800	27800	27900	53600
23	58500	50800	49400	114000	146000	43200	41800	e17500	30800	35900	39400	44500
24	56300	24200	22800	103000	118000	43100	44500	e18300	26200	9020	37100	35800
25	53500	19400	21500	87600	89400	22000	27300	e27400	29000	16100	37500	52100
26	58800	15400	37800	86300	86500	19900	27500	e16400	26900	18700	16700	50400
27	55000	17900	38500	85800	85900	28000	28700	e9050	26900	26700	15900	49700
28	59400	68900	30800	80500	85800	29700	28100	e8280	16500	27300	42600	49900
29	44200	91500	23800	58500	---	25500	10600	e19700	25600	29400	35000	50700
30	40300	92800	22300	79400	---	24400	12300	e14700	31100	35200	36200	33700
31	49600	---	19900	84700	---	17500	---	e14300	---	32000	33800	---
TOTAL	1562000	1427900	2100400	2380400	2369400	2709900	591140	698520	679390	897120	1167000	1152400
MEAN	50390	47600	67750	76790	84620	87420	19700	22530	22650	28940	37650	38410
MAX	61200	92800	115000	152000	157000	192000	69700	45600	41200	54100	78800	59600
MIN	18900	15300	19900	19800	42600	17500	8150	7860	9090	9020	14000	18500

e Estimated

TENNESSEE RIVER BASIN

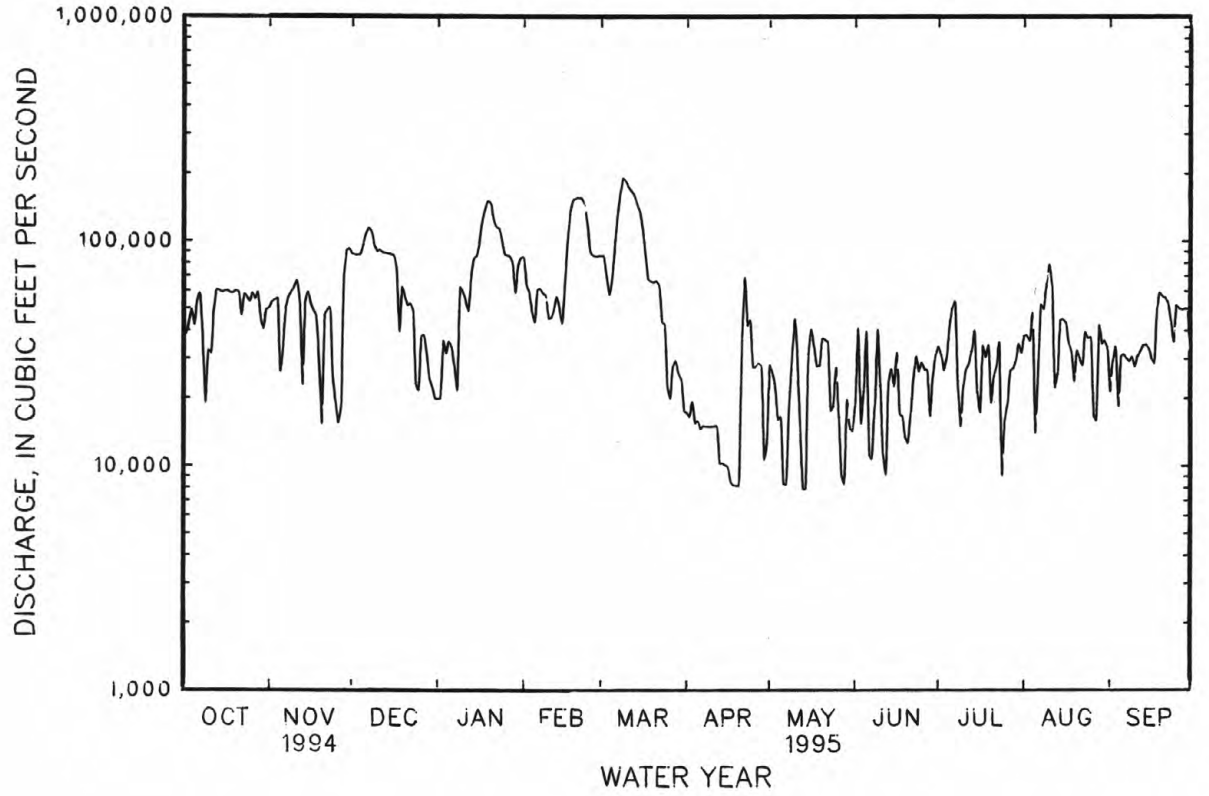
03593500 TENNESSEE RIVER AT SAVANNAH, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1995, BY WATER YEAR (WY)

MEAN	36100	47000	73260	88370	94250	85990	56050	48180	39640	38730	37430	35140
MAX	97010	147000	160100	223100	228100	179600	172300	140400	103100	84810	64740	71700
(WY)	1990	1958	1992	1974	1957	1973	1994	1984	1989	1989	1967	1950
MIN	18820	20510	26850	23710	39170	19840	11150	8977	10490	12910	15910	15800
(WY)	1955	1954	1981	1986	1988	1988	1986	1988	1988	1988	1988	1968

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		*WATER YEARS 1946 - 1995	
ANNUAL TOTAL	28929590		17735570			
ANNUAL MEAN	79260		48590		56530	
HIGHEST ANNUAL MEAN					86040	1973
LOWEST ANNUAL MEAN					23090	1988
HIGHEST DAILY MEAN	320000	Mar 29	192000	Mar 9	554000	Mar 17 1973
LOWEST DAILY MEAN	7810	May 29	7860	May 13	60	Apr 23 1966
ANNUAL SEVEN-DAY MINIMUM	16600	May 24	9050	Apr 14	5890	May 20 1986
INSTANTANEOUS PEAK FLOW			196000	Mar 09	507000	Mar 18 1973
INSTANTANEOUS PEAK STAGE			25.48	Mar 10	96.11	Mar 20 1973
INSTANTANEOUS LOW FLOW			7860	May 13	60	Apr 23 1966
10 PERCENT EXCEEDS	183000		90500		107000	
50 PERCENT EXCEEDS	55000		38200		42400	
90 PERCENT EXCEEDS	25400		15300		22700	

* Regulated period only.



TENNESSEE RIVER BASIN

03597210 GARRISON FORK ABOVE L&N RAILROAD AT WARTRACE, TN

LOCATION.--Lat 35°30'42", long 86°19'26", Bedford County, Hydrologic Unit 06040002, on right bank 0.3 mi above L&N Railroad bridge, 0.6 mi below Knob Creek, 1.2 mi southeast of Wartrace, and at mile 3.2.

DRAINAGE AREA.--85.5 mi².

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

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 769.30 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Periodic regulation by a small powerplant, 6.8 miles upstream. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 28	0430	*8,100	*15.24	Mar. 8	0615	3,410	11.06
Mar. 7	2315	3,020	10.58	May 9	1545	4,770	12.40

Minimum discharge, 6.8 ft³/s, Sept. 8, 9, 10, 11.

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	30	134	37	111	59	90	101	40	19	11	9.3
2	23	28	103	35	101	54	79	142	41	18	12	9.3
3	24	25	87	32	87	52	69	86	33	18	10	8.6
4	22	24	530	32	80	51	66	71	29	18	9.7	8.2
5	19	25	444	29	67	501	60	63	26	19	17	7.9
6	17	54	286	513	62	336	57	55	26	21	116	7.6
7	16	43	197	366	61	612	54	50	34	20	69	7.2
8	15	35	140	189	57	2040	51	46	28	18	170	7.0
9	93	34	114	134	51	677	49	1440	24	16	109	6.9
10	98	63	879	106	54	361	46	576	22	15	52	7.0
11	56	59	586	135	56	243	43	294	682	14	33	7.0
12	44	50	302	155	48	178	55	183	237	13	24	7.6
13	129	44	193	132	45	140	47	131	114	12	19	11
14	503	40	141	695	44	117	42	119	70	12	16	49
15	210	36	111	704	50	103	40	104	52	11	14	21
16	121	34	98	415	491	92	38	84	42	13	13	51
17	83	33	90	265	332	82	39	74	35	14	12	78
18	65	30	78	188	225	75	39	192	35	13	12	32
19	57	28	70	164	169	70	36	435	38	11	12	20
20	54	26	64	136	137	68	42	158	142	10	55	16
21	51	26	60	112	113	70	749	109	62	14	62	14
22	50	25	58	97	95	63	233	82	48	15	22	16
23	76	23	55	89	87	59	152	68	39	108	15	19
24	57	21	52	79	78	54	144	58	34	103	13	15
25	49	21	49	72	69	50	103	63	30	41	12	14
26	43	24	45	68	66	47	85	54	28	24	11	14
27	37	1010	43	65	64	851	74	46	24	17	11	13
28	34	3020	42	123	66	344	65	54	22	21	10	13
29	32	402	41	225	---	181	59	45	21	15	9.6	12
30	31	206	39	153	---	130	65	38	20	12	9.1	11
31	30	---	38	126	---	104	---	35	---	11	8.7	---
TOTAL	2164	5519	5169	5671	2966	7864	2771	5056	2078	686	969.1	512.6
MEAN	69.8	184	167	183	106	254	92.4	163	69.3	22.1	31.3	17.1
MAX	503	3020	879	704	491	2040	749	1440	682	108	170	78
MIN	15	21	38	29	44	47	36	35	20	10	8.7	6.9
CFSM	.82	2.15	1.95	2.14	1.24	2.97	1.08	1.91	.81	.26	.37	.20
IN.	.94	2.40	2.25	2.47	1.29	3.42	1.21	2.20	.90	.30	.42	.22

TENNESSEE RIVER BASIN

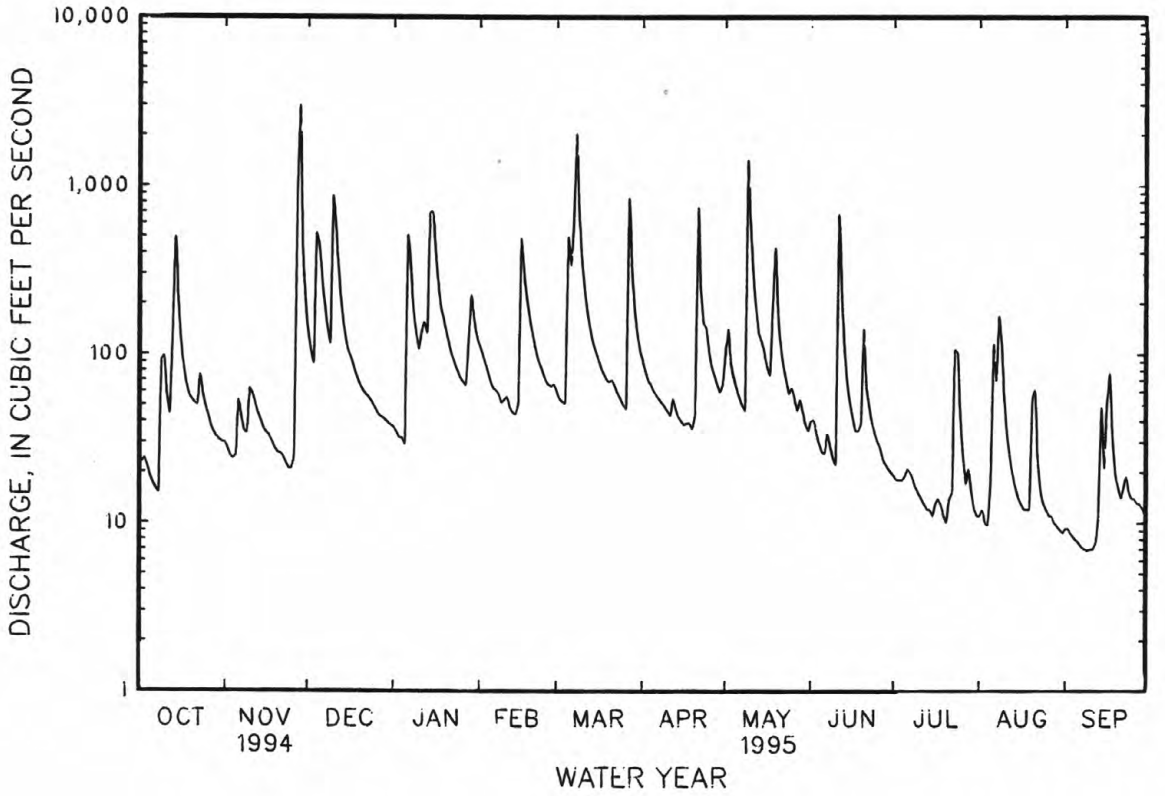
03597210 GARRISON FORK ABOVE L&N RAILROAD AT WARTRACE, TN--Continued

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

MEAN	56.0	108	399	254	379	355	190	114	57.1	38.1	26.6	55.9
MAX	179	189	825	335	793	726	503	179	88.1	78.5	58.7	240
(WY)	1990	1993	1991	1990	1991	1994	1994	1993	1991	1994	1992	1992
MIN	7.93	24.8	121	183	106	195	84.1	30.8	19.5	13.9	8.76	9.92
(WY)	1994	1994	1990	1995	1995	1992	1992	1992	1990	1993	1990	1993

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1990 - 1995	
ANNUAL TOTAL	87420		41425.7			
ANNUAL MEAN	240		113		169	
HIGHEST ANNUAL MEAN					233	1994
LOWEST ANNUAL MEAN					113	1995
HIGHEST DAILY MEAN	6060	Mar 27	3020	Nov 28	7390	Dec 22 1990
LOWEST DAILY MEAN	11	Sep 12	6.9	Sep 9	2.2	Sep 2 1990
ANNUAL SEVEN-DAY MINIMUM	11	Sep 10	7.2	Sep 6	4.8	Aug 23 1990
INSTANTANEOUS PEAK FLOW			8100	Nov 28	9800	Dec 22 1990
INSTANTANEOUS PEAK STAGE			15.24	Nov 28	16.45	Dec 22 1990
INSTANTANEOUS LOW FLOW			a6.8	Sep 8	2.2	Sep 2 1990
ANNUAL RUNOFF (CFSM)	2.80		1.33		1.97	
ANNUAL RUNOFF (INCHES)	38.04		18.02		26.78	
10 PERCENT EXCEEDS	524		225		332	
50 PERCENT EXCEEDS	68		51		55	
90 PERCENT EXCEEDS	19		13		9.8	

a Also occurred Sept. 9, 10, 11.



TENNESSEE RIVER BASIN

03597590 WARTRACE CREEK BELOW COUNTY ROAD AT WARTRACE, TN

LOCATION.--Lat 35°31'38", long 86°20'25", Bedford County, Hydrologic Unit 06040002, on right bank 300 ft below county road bridge, 0.4 mi upstream from Louisville and Nashville Railroad bridge, 0.4 mi west of Wartrace, and at mile 2.3.

DRAINAGE AREA.--35.7 mi².

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

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 781.66 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,400 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 28	0345	*3,370	*11.08	Apr. 21	0545	2,660	10.06
Mar. 8	0115	3,120	10.74	May 9	1600	2,560	9.92

Minimum discharge, 0.03 ft³/s, Sept. 11, 12.

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	5.2	8.9	46	9.1	35	16	25	68	5.1	2.0	.43	.18
2	4.3	8.3	35	7.9	31	15	21	62	4.5	1.6	.65	.27
3	4.4	7.1	29	7.1	27	14	19	29	3.6	1.9	.79	.23
4	4.2	6.1	507	6.8	23	13	18	23	3.0	3.9	.54	.32
5	3.2	6.8	373	5.9	20	380	15	19	2.5	4.2	5.0	.25
6	3.0	37	136	513	18	128	14	16	2.7	3.2	10	.16
7	2.5	19	81	190	17	473	13	13	4.7	2.1	5.2	.11
8	2.0	14	56	79	16	1300	12	11	3.6	1.4	3.4	.08
9	58	12	44	53	14	189	11	690	2.5	1.1	4.1	.07
10	41	24	584	39	16	102	9.6	137	2.0	.90	3.1	.06
11	20	22	206	66	16	71	9.0	63	48	.80	2.2	.04
12	15	18	98	72	13	54	16	41	39	.74	1.6	.05
13	127	15	65	51	11	43	11	30	18	.65	1.2	.67
14	234	13	48	363	11	37	8.8	25	10	.51	1.1	1.9
15	76	11	38	350	15	32	7.8	21	6.7	.40	1.0	.82
16	42	10	34	140	428	27	7.4	17	5.2	.58	.79	4.1
17	27	9.9	32	85	135	24	7.9	14	4.3	1.7	.68	12
18	21	9.1	27	61	77	21	8.0	109	4.9	.88	.59	3.6
19	18	7.8	23	51	57	19	6.8	118	19	.55	.48	1.7
20	18	7.0	21	42	45	19	9.2	34	98	.38	4.3	1.2
21	18	6.5	19	34	35	20	858	22	21	.84	12	1.1
22	18	5.6	18	29	29	17	87	17	13	.54	3.0	1.5
23	56	4.9	17	26	26	16	58	13	8.5	.76	1.4	1.7
24	31	4.5	16	23	23	14	47	10	7.1	11	.87	1.5
25	23	4.4	14	21	20	12	31	9.1	5.9	3.9	.66	1.3
26	18	5.4	13	19	18	12	24	8.7	5.4	1.9	.55	1.2
27	15	626	11	18	18	497	20	7.0	4.4	1.1	.39	1.3
28	12	1170	11	52	19	90	18	6.8	3.5	1.8	.26	1.4
29	11	126	10	110	---	51	15	6.2	2.8	1.1	.18	1.2
30	9.7	69	9.6	54	---	37	17	4.9	2.3	.70	.14	1.0
31	9.3	---	9.2	41	---	29	---	4.2	---	.51	.11	---
TOTAL	946.8	2288.3	2630.8	2618.8	1213	3772	1424.5	1648.9	361.2	53.64	66.71	41.01
MEAN	30.5	76.3	84.9	84.5	43.3	122	47.5	53.2	12.0	1.73	2.15	1.37
MAX	234	1170	584	513	428	1300	858	690	98	11	12	12
MIN	2.0	4.4	9.2	5.9	11	12	6.8	4.2	2.0	.38	.11	.04
CFSM	.86	2.14	2.38	2.37	1.21	3.41	1.33	1.49	.34	.05	.06	.04
IN.	.99	2.38	2.74	2.73	1.26	3.93	1.48	1.72	.38	.06	.07	.04

TENNESSEE RIVER BASIN

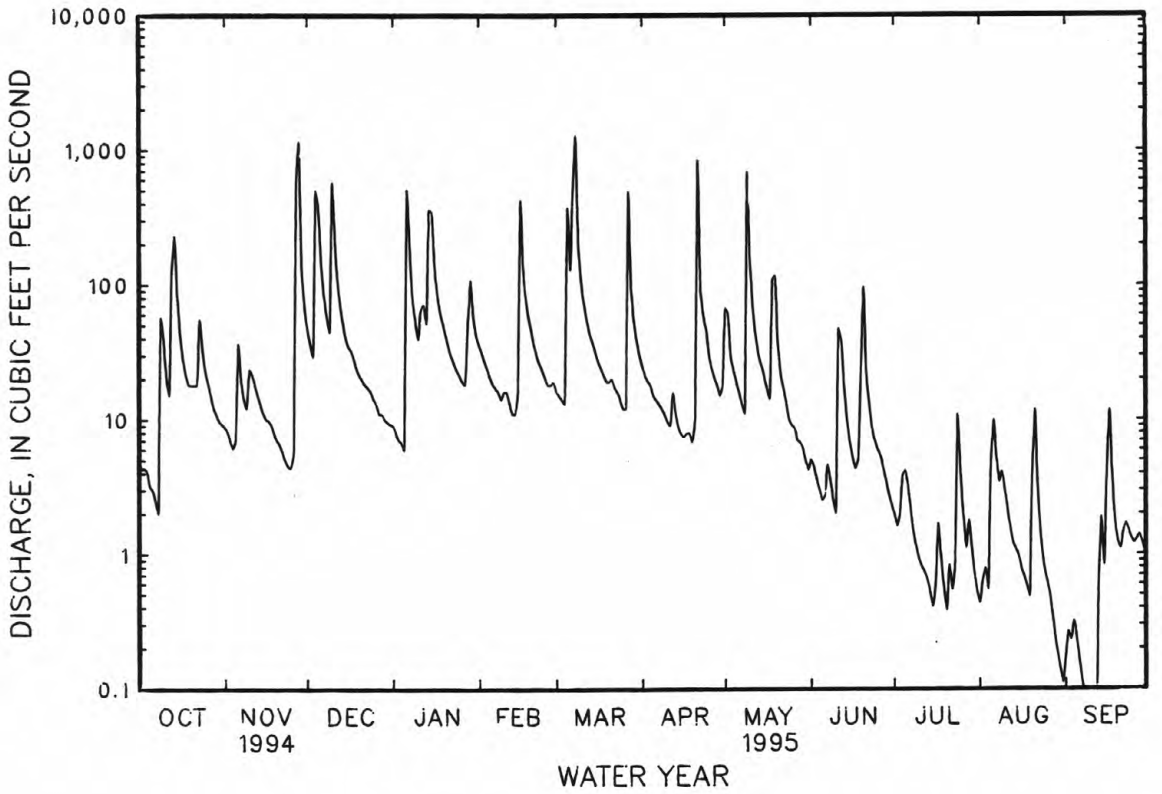
03597590 WARTRACE CREEK BELOW COUNTY ROAD AT WARTRACE, TN--Continued

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

MEAN	24.4	51.8	180	112	157	147	73.7	34.8	11.0	11.2	17.7	30.7
MAX	96.0	110	350	147	326	311	207	62.2	19.4	23.7	79.5	167
(WY)	1990	1993	1991	1990	1991	1994	1994	1991	1993	1992	1992	1992
MIN	.065	2.93	55.4	84.5	43.3	78.8	20.4	2.23	1.57	1.73	.012	.18
(WY)	1994	1994	1990	1995	1995	1992	1992	1992	1990	1995	1991	1993

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1989 - 1995	
ANNUAL TOTAL	36638.23		17065.66			
ANNUAL MEAN	100		46.8		70.5	
HIGHEST ANNUAL MEAN					97.2	1994
LOWEST ANNUAL MEAN					46.8	1995
HIGHEST DAILY MEAN	3080	Mar 27	1300	Mar 8	4000	Sep 22 1992
LOWEST DAILY MEAN	.95	Jul 21	.04	Sep 11	a.00	Aug 24 1990
ANNUAL SEVEN-DAY MINIMUM	1.3	Jun 19	.08	Sep 6	.00	Aug 24 1990
INSTANTANEOUS PEAK FLOW			3370	Nov 28	8690	Sep 22 1992
INSTANTANEOUS PEAK STAGE			11.08	Nov 28	15.12	Sep 22 1992
INSTANTANEOUS LOW FLOW			b.03	Sep 11	a.00	Aug 24 1990
ANNUAL RUNOFF (CFSM)	2.81		1.31		1.98	
ANNUAL RUNOFF (INCHES)	38.18		17.78		26.85	
10 PERCENT EXCEEDS	232		80		121	
50 PERCENT EXCEEDS	19		13		15	
90 PERCENT EXCEEDS	2.3		.75		.19	

a No flow many days most years.
b Also occurred Sept. 12, 1995.



TENNESSEE RIVER BASIN

03597860 DUCK RIVER AT SHELBYVILLE, TN

LOCATION.--Lat 35°28'51", long 86°27'45", Bedford County, Hydrologic Unit 06040002, on right bank 125 ft upstream from U.S. Highway 231 bridge, one block west of the southwest corner of the public square, and at mile 221.4.

DRAINAGE AREA.--425 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1991 to current year, discharge for gage height of 12.00 ft and below only. Continuous stage records were collected by Tennessee Valley Authority from December 1981 to September 1991.

GAGE.--Data collection platform. Datum of gage is 680.00 ft above sea level. Prior to Oct. 10, 1991 datum 10.00 ft higher.

REMARKS.--Records good. Flow regulated by Normandy Reservoir (station 03596460) since January 1976.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, not determined; maximum gage height, 33.13 ft, March 28, 1994; minimum discharge, 129 ft³/s, May 20, 1992; minimum daily 131 ft³/s, May 20, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, not determined; maximum gage height, 20.37 ft, May 9; minimum discharge, 134 ft³/s, Apr. 14, 15, minimum daily, 144 ft³/s, Apr. 14.

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	224	226	---	183	492	312	248	201	237	193	175	199
2	216	221	---	177	463	296	226	418	243	186	175	214
3	215	223	---	173	431	219	202	260	225	181	172	188
4	207	386	---	171	412	210	190	222	219	185	172	186
5	203	398	---	167	390	---	176	205	235	194	242	184
6	223	474	---	---	367	---	165	183	218	187	385	182
7	204	463	---	---	367	---	158	168	232	184	427	178
8	196	479	---	613	343	---	164	157	216	176	---	175
9	400	485	---	462	322	---	165	---	206	175	---	184
10	562	587	---	522	331	---	160	---	203	186	307	186
11	342	568	---	537	319	---	156	---	---	179	225	185
12	324	534	---	660	299	---	182	---	---	169	280	191
13	---	511	---	660	286	---	178	---	309	167	205	209
14	---	495	---	---	279	---	144	---	205	165	182	451
15	---	484	---	---	252	---	146	---	166	179	195	260
16	540	512	---	---	---	589	154	442	216	192	203	---
17	411	693	518	---	---	554	153	392	214	185	191	---
18	344	684	469	---	---	347	157	405	221	174	189	356
19	308	677	432	---	---	278	152	---	---	166	194	264
20	307	666	336	---	684	262	170	572	525	174	213	230
21	292	650	317	662	629	259	---	453	315	196	---	215
22	297	571	293	612	576	205	---	---	215	196	257	238
23	391	562	276	583	523	190	500	---	190	197	214	239
24	344	556	266	555	367	178	447	324	217	321	201	220
25	301	554	260	530	333	166	339	264	216	242	191	206
26	276	565	250	519	318	160	279	269	208	202	190	197
27	257	---	240	477	309	---	246	246	202	194	188	193
28	245	---	198	449	323	---	226	246	195	204	185	187
29	239	---	189	---	---	467	193	240	191	193	182	185
30	234	---	187	552	---	341	198	230	187	183	180	182
31	227	---	184	529	---	281	---	223	---	178	180	---
TOTAL	---	---	---	---	---	---	---	---	---	5903	---	---
MEAN	---	---	---	---	---	---	---	---	---	190	---	---
MAX	---	---	---	---	---	---	---	---	---	321	---	---
MIN	---	---	---	---	---	---	---	---	---	165	---	---

TENNESSEE RIVER BASIN

03597860 DUCK RIVER AT SHELBYVILLE, TN--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1991 to current year.
DISSOLVED OXYGEN: October 1991 to current year.

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

REMARKS.--Records good. Interruptions in the record were due to equipment malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 26.9°C, July 13, 14, 1995; minimum, 1.8°C, Feb. 9, 1995.
DISSOLVED OXYGEN: Maximum, 14.2, mg/L, Mar. 15, 1993; minimum, 5.8 mg/L, Sept. 22, 1992.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 26.9°C, July 13, 14; minimum, 1.8°C, Feb. 9.
DISSOLVED OXYGEN: Maximum, 13.6 mg/L, Feb. 9; minimum, 6.7 mg/L, Apr. 20, Aug. 26.

TEMPERATURE, WATER (DEG. C), 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	19.6	17.8	18.6	16.8	15.7	16.2	11.8	11.0	11.3	10.6	9.6	10.0
2	19.4	18.6	19.0	16.0	14.4	15.3	11.8	11.2	11.4	11.1	9.5	10.1
3	19.8	19.2	19.5	14.4	13.6	14.0	12.4	11.8	12.2	10.0	7.1	8.4
4	20.0	19.2	19.6	15.3	13.6	14.4	13.4	12.2	12.8	7.1	5.3	6.2
5	19.6	18.8	19.2	---	---	---	14.3	13.4	14.0	5.3	4.4	4.8
6	19.2	18.0	18.5	---	---	---	14.1	13.7	13.8	5.0	3.6	4.0
7	19.0	17.6	18.2	---	---	---	13.7	13.1	13.3	6.8	3.7	5.5
8	19.2	17.8	18.5	---	---	---	13.1	12.5	12.7	6.9	6.6	6.8
9	18.8	17.6	18.6	---	---	---	12.9	12.5	12.8	6.8	6.4	6.7
10	17.6	16.3	16.7	---	---	---	12.9	12.2	12.7	7.5	6.5	7.0
11	16.3	15.7	15.9	16.4	15.6	15.8	12.2	9.6	10.7	9.2	7.4	8.2
12	15.7	15.3	15.6	16.0	15.6	15.7	9.6	9.0	9.2	11.2	9.1	10.2
13	15.7	15.3	15.5	15.6	15.2	15.4	9.6	9.2	9.3	12.3	11.1	11.6
14	16.9	15.7	16.2	15.9	15.3	15.6	9.8	9.6	9.7	11.6	10.8	11.2
15	17.1	16.7	16.8	16.1	15.5	15.8	9.8	9.4	9.5	11.3	9.0	10.1
16	17.2	16.7	17.0	16.1	15.7	15.9	10.8	9.6	10.3	9.1	8.3	8.6
17	17.1	16.7	16.9	15.9	15.3	15.6	11.0	10.6	10.7	8.3	7.6	7.8
18	17.1	16.7	16.8	15.9	14.9	15.4	10.6	8.8	9.8	8.1	7.5	7.8
19	17.4	16.7	17.1	14.9	14.5	14.8	---	---	---	8.4	7.6	8.2
20	18.0	17.2	17.7	15.5	14.9	15.2	---	---	---	7.7	6.2	6.8
21	18.4	17.6	18.0	16.3	15.5	15.9	---	---	---	6.3	5.3	5.7
22	18.4	17.8	18.1	16.1	13.9	15.1	---	---	---	5.3	4.8	4.9
23	18.6	18.0	18.3	13.9	12.2	12.9	---	---	---	5.5	4.9	5.2
24	18.0	16.5	17.4	12.2	11.0	11.4	---	---	---	5.6	5.0	5.1
25	16.5	15.3	16.1	11.8	11.0	11.2	---	---	---	5.5	4.5	5.0
26	15.3	14.3	15.0	12.7	11.8	12.1	---	---	---	5.8	5.2	5.6
27	14.3	13.1	13.8	12.9	11.2	12.4	---	---	---	5.9	5.5	5.6
28	13.5	12.5	13.0	14.5	12.5	13.8	---	---	---	8.1	5.7	6.7
29	13.5	12.2	12.8	12.9	12.0	12.4	8.5	8.7	8.0	8.4	7.6	8.2
30	14.3	12.9	13.6	12.2	11.6	11.8	8.8	8.2	8.6	7.6	5.8	6.7
31	15.9	14.3	15.3	---	---	---	9.7	8.9	9.3	5.8	4.9	5.2
MONTH	20.0	12.2	16.9	16.8	11.0	14.3	14.3	8.2	11.1	12.3	3.6	7.2

TENNESSEE RIVER BASIN

03597860 DUCK RIVER AT SHELBYVILLE, TN--Continued

TEMPERATURE, WATER (DEG. C), 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	6.1	5.2	5.5	10.2	8.6	9.5	13.4	12.7	13.0	17.3	16.5	16.9
2	8.2	6.1	7.1	8.6	6.9	7.8	14.1	12.2	13.0	16.8	15.4	16.1
3	8.7	8.2	8.6	6.9	6.1	6.4	15.1	12.6	13.8	16.8	15.4	15.8
4	8.7	7.2	8.0	7.1	5.9	6.5	15.6	13.7	14.6	17.0	15.2	15.9
5	7.2	5.0	6.1	9.6	6.9	8.2	16.0	14.6	15.4	17.0	15.6	16.2
6	5.0	3.5	4.2	12.0	9.6	10.7	16.0	14.8	15.4	17.5	16.2	16.8
7	3.5	3.1	3.4	13.3	12.0	12.7	18.1	14.8	16.0	18.8	16.8	17.7
8	3.3	2.4	2.9	12.9	7.8	9.7	18.6	15.5	16.9	20.6	17.6	19.0
9	2.6	1.8	2.2	8.8	8.0	8.5	20.2	16.9	18.2	20.6	19.4	19.8
10	3.2	2.0	2.7	9.2	8.0	8.7	21.7	18.2	19.7	19.6	17.6	18.5
11	4.0	3.2	3.8	10.0	8.2	9.1	20.2	19.5	19.8	17.6	17.1	17.3
12	3.8	2.8	3.5	10.3	8.5	9.5	20.6	19.0	19.7	17.4	16.5	17.0
13	3.0	2.8	2.9	10.9	9.3	10.1	19.0	17.8	18.5	17.4	16.9	17.1
14	3.3	2.8	3.1	11.3	10.1	10.8	18.4	17.4	17.9	18.0	17.4	17.8
15	5.5	---	---	11.5	10.5	11.0	18.6	17.2	17.8	18.2	17.6	18.0
16	8.2	5.5	7.0	12.2	11.1	11.7	19.2	17.1	17.9	18.6	17.8	18.2
17	8.4	7.8	8.0	12.2	11.1	11.7	19.2	17.6	18.2	19.6	18.6	19.0
18	8.6	8.2	8.5	12.6	11.9	12.3	19.6	18.4	19.0	19.6	18.8	19.2
19	9.4	8.6	9.1	14.4	12.2	13.3	20.6	18.8	19.6	19.2	18.0	18.8
20	9.8	9.2	9.6	15.0	13.4	14.2	20.1	19.7	19.9	18.4	17.1	17.5
21	9.8	8.4	9.1	15.6	14.0	14.7	19.9	17.7	18.5	17.6	17.1	17.4
22	8.4	7.3	7.8	16.8	14.2	15.3	18.1	17.0	17.6	18.6	17.6	18.1
23	9.0	7.6	8.3	15.9	14.8	15.4	---	---	---	19.8	18.4	19.0
24	9.2	8.6	8.9	16.7	15.5	16.1	15.6	15.2	15.3	20.6	18.8	19.7
25	9.2	8.2	8.8	16.4	15.4	16.0	15.4	14.6	14.8	21.0	19.6	20.2
26	9.2	8.2	8.7	16.6	15.2	15.9	16.2	14.4	15.2	21.0	20.0	20.4
27	10.2	8.8	9.7	16.9	15.4	16.0	16.4	15.0	15.7	22.1	20.2	21.0
28	10.4	10.2	10.3	15.7	15.1	15.3	15.9	14.8	15.3	22.0	20.6	21.3
29	---	---	---	15.3	13.5	14.2	16.9	14.3	15.5	21.8	20.8	21.1
30	---	---	---	14.0	13.3	13.6	16.9	15.3	16.0	21.4	20.4	20.9
31	---	---	---	13.8	12.9	13.6	---	---	---	21.0	20.2	20.7
MONTH	10.4	1.8	6.6	16.9	5.9	11.9	21.7	12.2	16.8	22.1	15.2	18.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20.4	19.4	20.0	23.5	22.4	23.0	26.6	24.3	25.4	25.6	25.0	25.2
2	20.8	19.2	19.9	23.3	22.5	23.0	26.2	24.7	25.5	25.0	23.2	24.0
3	21.8	19.6	20.6	23.5	22.2	22.8	25.5	24.5	24.9	23.4	22.1	22.7
4	22.1	20.4	21.3	23.7	22.2	22.8	25.3	24.1	24.5	23.1	21.8	22.4
5	22.3	21.0	21.8	24.5	22.3	23.2	25.3	23.5	24.3	23.7	21.8	22.5
6	23.1	21.2	21.8	25.1	22.7	23.7	---	---	---	23.7	22.0	22.7
7	22.9	21.0	22.0	24.5	23.3	23.9	22.9	22.5	22.7	23.9	22.2	22.9
8	23.5	21.6	22.5	24.7	23.7	24.3	24.3	22.7	23.3	---	22.3	---
9	24.5	22.1	23.2	24.9	23.7	24.2	22.7	22.0	22.4	22.5	---	---
10	24.9	22.9	23.9	24.7	23.5	23.9	23.6	22.6	23.2	22.3	21.9	22.0
11	24.3	21.8	22.7	24.9	23.1	23.9	25.0	23.2	24.1	22.5	21.3	21.8
12	22.1	20.4	21.0	25.7	23.5	24.5	25.2	24.0	24.5	22.9	21.5	22.1
13	20.4	19.4	19.8	26.9	24.3	25.5	26.4	24.2	25.1	22.5	22.1	22.3
14	20.4	19.0	19.7	26.9	25.3	26.0	26.5	24.8	25.6	22.5	21.3	21.9
15	21.4	19.2	20.3	26.7	25.5	25.9	26.8	25.3	26.0	22.1	21.1	21.6
16	22.3	20.2	21.3	25.7	24.9	25.2	26.7	25.5	26.1	22.1	21.7	21.8
17	22.9	21.4	22.2	25.5	24.1	24.8	26.7	25.5	26.1	21.7	20.9	21.1
18	22.5	21.4	22.1	25.5	24.3	24.9	26.7	25.3	25.9	21.3	20.5	20.9
19	22.0	17.6	19.3	25.5	24.5	25.0	26.4	25.2	25.8	21.5	20.3	20.7
20	19.5	18.8	19.1	25.7	24.3	24.9	26.2	25.2	25.6	20.9	20.1	20.5
21	20.7	19.5	20.0	25.1	24.1	24.6	25.4	23.7	24.2	21.3	20.3	20.7
22	21.5	19.9	20.7	25.5	24.1	24.6	25.3	23.7	24.6	20.9	19.3	20.2
23	22.2	20.5	21.3	25.7	23.7	24.6	25.3	24.1	24.8	19.3	17.4	18.2
24	23.4	21.5	22.3	25.1	23.9	24.4	25.3	23.9	24.6	17.4	16.4	16.9
25	23.8	22.1	22.9	25.7	23.9	24.7	25.5	23.9	24.7	17.6	16.4	16.9
26	24.0	22.2	23.0	26.3	24.1	25.0	25.4	24.4	24.9	18.4	17.2	17.7
27	24.0	22.1	23.0	25.9	24.5	25.1	25.2	24.6	24.9	18.9	18.0	18.4
28	24.4	22.2	23.1	25.5	24.1	24.8	25.4	24.2	24.8	19.7	17.8	18.6
29	23.8	22.2	22.9	25.1	23.3	24.1	26.2	24.4	25.2	19.0	18.0	18.6
30	23.4	22.2	22.9	25.9	23.5	24.6	26.6	24.8	25.4	---	18.2	---
31	---	---	---	25.7	24.5	24.9	26.6	25.0	25.6	---	---	---
MONTH	24.9	17.6	21.6	26.9	22.2	24.4	26.8	22.0	24.8	25.6	16.4	20.9

TENNESSEE RIVER BASIN

03597860 DUCK RIVER AT SHELBYVILLE, TN--Continued

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

TENNESSEE RIVER BASIN

03597860 DUCK RIVER AT SHELBYVILLE, TN--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.5	9.1	9.3	8.7	8.1	8.4	8.6	8.1	8.3	8.4	7.6	8.2
2	9.6	9.1	9.4	8.9	8.0	8.5	8.5	8.1	8.3	8.5	8.3	8.4
3	9.4	8.9	9.1	8.8	8.3	8.5	8.3	7.9	8.2	8.8	8.3	8.5
4	9.3	8.7	8.9	8.9	8.3	8.6	8.3	8.0	8.1	9.0	8.5	8.8
5	9.1	8.5	8.9	8.6	8.0	8.3	8.1	7.7	8.0	8.9	8.3	8.7
6	9.1	8.5	8.8	8.4	7.8	8.1	8.3	7.9	8.1	9.0	8.3	8.7
7	9.5	9.0	9.3	8.3	7.6	7.9	8.2	7.6	7.9	8.7	8.3	8.6
8	9.3	8.9	9.1	8.3	7.5	7.8	8.0	7.5	7.7	8.7	8.0	8.4
9	9.4	8.7	9.0	8.3	7.6	8.0	8.2	7.7	7.9	8.6	8.1	8.4
10	9.1	8.7	8.9	8.2	7.6	8.0	7.8	7.4	7.7	8.8	8.4	8.6
11	9.0	8.3	8.6	8.3	7.8	8.1	7.9	7.5	7.7	8.8	8.0	8.4
12	9.0	8.1	8.6	8.3	7.7	8.0	7.9	7.5	7.7	9.1	8.3	8.8
13	9.2	8.7	8.9	8.1	7.3	7.8	7.9	7.4	7.7	8.8	7.9	8.4
14	9.2	8.6	9.0	8.1	7.6	7.8	7.9	7.4	7.6	8.9	8.2	8.5
15	9.1	8.6	8.8	7.8	7.4	7.7	7.8	7.4	7.6	8.9	8.2	8.5
16	8.9	8.4	8.7	8.1	7.5	7.8	8.1	7.6	7.8	8.5	7.9	8.3
17	8.7	8.2	8.5	8.2	7.6	7.9	8.0	7.5	7.8	8.7	7.7	8.3
18	8.6	8.2	8.5	8.3	7.8	8.0	8.1	7.7	7.9	8.8	8.4	8.7
19	9.3	8.5	9.0	8.4	7.7	8.1	8.3	7.8	8.0	9.1	8.6	8.8
20	9.4	8.9	9.2	8.5	7.9	8.2	8.3	7.8	8.1	9.2	8.8	9.1
21	9.2	8.4	8.9	8.5	8.1	8.3	8.7	8.2	8.5	9.2	8.8	8.9
22	8.9	8.3	8.6	8.6	8.2	8.4	8.5	8.1	8.3	9.5	8.8	9.0
23	8.5	7.7	8.1	8.7	8.2	8.4	8.7	8.0	8.4	9.7	9.3	9.5
24	8.1	7.8	8.0	8.8	8.4	8.6	8.5	7.8	8.3	9.9	9.3	9.6
25	8.1	7.4	7.7	8.8	8.2	8.5	8.5	7.4	7.9	9.8	9.4	9.7
26	8.1	7.5	7.8	8.7	8.2	8.5	8.3	6.7	7.6	9.6	9.0	9.3
27	8.5	7.7	8.1	8.6	8.2	8.5	7.8	6.9	7.4	9.4	8.9	9.2
28	8.5	7.8	8.1	9.0	8.4	8.7	8.1	7.3	7.7	9.5	9.0	9.2
29	8.6	7.7	8.3	9.0	8.6	8.8	8.3	7.4	7.8	9.1	8.7	9.0
30	8.7	8.1	8.5	9.0	8.5	8.8	8.1	7.3	7.7	9.2	8.6	8.9
31	---	---	---	8.9	8.2	8.6	8.3	7.3	7.8	---	---	---
MONTH	9.6	7.4	8.7	9.0	7.3	8.2	8.7	6.7	7.9	9.9	7.6	8.8

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TENNESSEE RIVER BASIN

03598000 DUCK RIVER NEAR SHELBYVILLE, TN

LOCATION.--Lat 35°28'49", long 86°29'57", Bedford County, Hydrologic Unit 06040002, on right bank 150 ft downstream from Sims Bridge, 2.1 mi upstream from Sugar Creek, 2.2 mi west of Shelbyville, 2.9 mi downstream from Flat Creek, and at mile 216.2.

DRAINAGE AREA.--481 mi².

PERIOD OF RECORD.--October 1933 to current year. Prior to April 1934, monthly discharge only, published in WSP 1306.

REVISED RECORDS.--WSP 783: 1934. WSP 853: Drainage area.

GAGE.--Data collection platform. Datum of gage is 683.51 ft above sea level. Prior to Sept. 2, 1966, at datum 2.0 ft higher.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge prior to regulation, 62,900 ft³/s, Feb. 13, 1948, gage height, 38.40 ft, present datum, from floodmarks, from rating curve extended above 35,000 ft³/s on basis of slope-area measurement of peak flow. Prior to 1948, diurnal fluctuation caused by powerplant upstream. Flow regulated by Normandy Reservoir (station 03596460) since January 1976. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1929 reached a stage of 39.6 ft present datum, discharge, about 70,000 ft³/s, from high-water profile by Tennessee Valley Authority. Flood in March 1902 reached a stage about 2.0 ft higher than that in March 1929, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,800 ft³/s, at 1330 hours Nov. 28, gage height 19.18 ft; minimum, 186 ft³/s, Sept. 8, 9; minimum daily, 188 ft³/s, Sept. 8.

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	258	234	1620	253	590	407	350	294	281	219	209	219
2	251	230	1410	246	561	386	323	520	295	215	212	240
3	258	224	837	238	528	311	297	368	276	211	207	207
4	251	368	2160	235	507	294	282	316	265	235	206	198
5	239	396	2490	229	482	1780	266	294	281	241	288	193
6	254	507	2240	724	453	1870	252	262	263	229	769	193
7	244	499	1810	2150	452	1480	244	244	289	218	575	192
8	232	502	1520	765	428	8200	248	229	263	209	694	188
9	492	503	1310	572	404	3660	254	2010	248	205	1230	193
10	729	654	2440	604	410	2670	246	3140	241	220	460	198
11	433	627	3500	616	404	2160	239	2330	936	238	321	199
12	414	572	1830	768	377	1880	275	1720	838	210	345	207
13	913	542	1380	763	362	1670	270	1230	392	204	271	229
14	1800	522	1150	2050	355	1530	226	1120	262	198	238	563
15	1130	511	1040	2650	328	1340	217	1060	212	216	239	312
16	650	523	966	1860	1430	692	227	505	251	228	246	599
17	467	736	611	1260	1510	643	227	432	254	226	234	1060
18	377	726	553	1530	1150	481	232	448	260	215	228	453
19	336	716	514	1450	951	391	224	1180	1910	199	227	318
20	334	702	419	1280	827	371	233	625	622	202	242	271
21	316	689	391	757	743	367	3090	494	365	227	547	251
22	323	598	377	690	671	311	1040	431	259	228	317	272
23	419	576	366	655	623	287	630	393	225	230	259	279
24	370	569	351	624	477	267	575	370	244	345	237	256
25	318	565	340	602	432	251	460	313	250	302	223	239
26	290	580	328	593	416	243	391	312	240	243	219	229
27	269	1950	319	569	408	1340	350	290	233	229	216	222
28	257	8660	274	548	424	986	321	290	225	260	210	215
29	248	2980	261	846	---	583	283	285	218	235	204	211
30	243	2000	258	669	---	455	284	273	215	221	200	206
31	239	---	254	631	---	389	---	266	---	213	198	---
TOTAL	13354	29461	33319	27427	16703	37695	12556	22044	11113	7071	10271	8612
MEAN	431	982	1075	885	597	1216	419	711	370	228	331	287
MAX	1800	8660	3500	2650	1510	8200	3090	3140	1910	345	1230	1060
MIN	232	224	254	229	328	243	217	229	212	198	198	188
(†)	-1100	-7300	-3600	+700	+600	+6000	+5900	+2600	-2300	-2300	-1700	-2200
MEAN‡	395	739	959	907	618	1410	615	795	294	154	276	214
CFSM‡	.82	1.54	1.99	1.89	1.28	2.93	1.28	1.65	.61	.32	.57	.44
IN.‡	.95	1.71	2.30	2.17	1.34	3.38	1.43	1.91	.69	.37	.66	.50

CAL YR 1994 MEAN‡ 1297 CFSM‡ 2.70 IN.‡ 36.60
WTR YR 1995 MEAN‡ 616 CFSM‡ 1.28 IN.‡ 17.39

† Change in contents, in cfs-days, in Normandy Lake.
‡ Adjusted for change in contents.
NOTE.--Contents (cfs-days) for adjustements furnished by Tennessee Valley Authority.

TENNESSEE RIVER BASIN

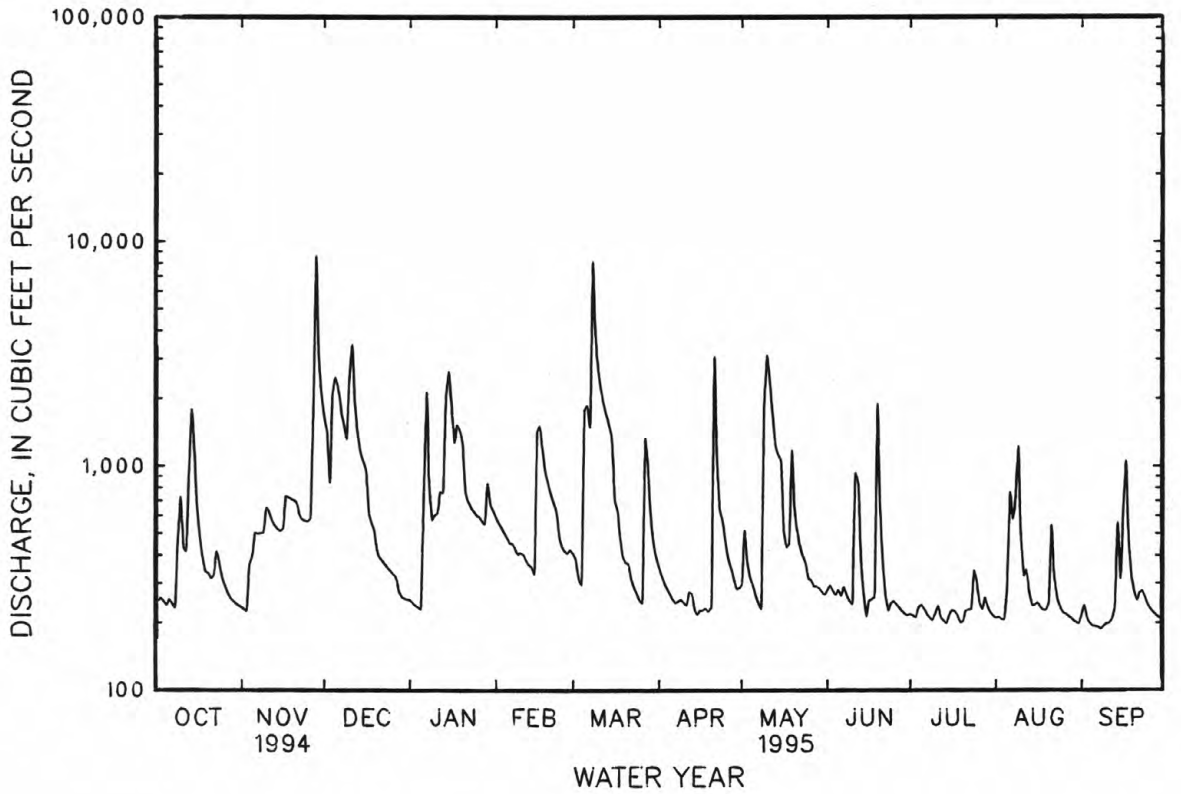
03598000 DUCK RIVER NEAR SHELBYVILLE, TN--Continued

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

MEAN	371	961	1414	1226	1305	1418	924	746	459	334	261	317
MAX	1314	2277	4132	2873	3730	3649	2992	2753	2151	1670	728	1036
(WY)	1990	1987	1992	1979	1994	1980	1994	1983	1989	1989	1982	1992
MIN	157	170	337	175	339	308	165	137	166	166	154	163
(WY)	1988	1988	1981	1986	1978	1988	1986	1988	1988	1987	1983	1980

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		*WATER YEARS 1977 - 1995	
ANNUAL TOTAL	473699		229626			
ANNUAL MEAN	1298		629		809	
HIGHEST ANNUAL MEAN					1253	1991
LOWEST ANNUAL MEAN					257	1981
HIGHEST DAILY MEAN	20000	Mar 28	8660	Nov 28	21700	Dec 23 1990
LOWEST DAILY MEAN	186	Jul 7	188	Sep 8	72	Oct 1 1982
ANNUAL SEVEN-DAY MINIMUM	195	Jun 18	194	Sep 4	88	Sep 25 1982
INSTANTANEOUS PEAK FLOW			10800	Nov 28	26100	Dec 23 1990
INSTANTANEOUS PEAK STAGE			19.18	Nov 28	29.88	Dec 23 1990
INSTANTANEOUS LOW FLOW			a188	Sep 8	71	Sep 30 1982
10 PERCENT EXCEEDS	3450		1460		2020	
50 PERCENT EXCEEDS	449		345		295	
90 PERCENT EXCEEDS	214		217		168	

* Regulated period only.
a Also occurred Sept. 9.



TENNESSEE RIVER BASIN

03598173 FALL CREEK NEAR DEASON, TN

LOCATION.--Lat 35°35'01", long 86°29'17", Bedford County, Hydrologic Unit 06040002, on right downstream wingwall of bridge on Milligan Road, 2.2 mi south of Vannatta, 3.2 mi southwest of Deason.

DRAINAGE AREA.--16.4 mi².

PERIOD OF RECORD.--April 1994 to April 1995 (discontinued).

GAGE.--Data logger and crest-stage gage. Elevation of gage is 722 ft above sea level from topographic map.

REMARKS.--Records good.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 28	0200	994	8.82	Mar. 8	0130	*1,230	*9.41
Dec. 10	1545	687	7.89	Mar. 27	0945	1,090	9.07
Jan. 6	1730	811	8.29	Apr. 21	0300	717	7.99

Minimum daily discharge, 1.9 ft³/s, Apr. 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO APRIL 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	6.2	27	5.7	16	7.4	13	---	---	---	---	---
2	6.3	4.8	22	5.2	14	6.3	10	---	---	---	---	---
3	7.2	4.1	20	4.7	12	5.9	8.2	---	---	---	---	---
4	5.3	4.2	180	4.5	11	5.5	7.0	---	---	---	---	---
5	4.2	8.1	173	4.2	9.8	154	5.8	---	---	---	---	---
6	3.5	34	62	224	8.8	54	4.9	---	---	---	---	---
7	3.7	15	41	84	8.4	208	4.1	---	---	---	---	---
8	4.8	11	32	33	8.2	560	3.5	---	---	---	---	---
9	63	9.9	27	24	7.4	77	3.0	---	---	---	---	---
10	29	21	236	19	7.6	46	2.7	---	---	---	---	---
11	16	15	e130	29	7.7	34	2.6	---	---	---	---	---
12	22	12	e55	30	6.7	27	3.9	---	---	---	---	---
13	120	9.9	e35	22	5.8	22	3.5	---	---	---	---	---
14	118	8.6	e27	133	4.8	19	2.5	---	---	---	---	---
15	46	7.3	e24	150	7.2	17	2.2	---	---	---	---	---
16	28	6.8	23	58	172	15	2.0	---	---	---	---	---
17	20	6.2	23	38	55	14	2.2	---	---	---	---	---
18	16	5.4	19	30	34	12	2.1	---	---	---	---	---
19	15	4.5	17	25	26	11	1.9	---	---	---	---	---
20	13	4.0	16	21	21	10	4.9	---	---	---	---	---
21	11	3.9	15	18	18	9.3	262	---	---	---	---	---
22	13	3.4	13	16	15	7.3	33	---	---	---	---	---
23	22	2.9	12	14	13	6.1	22	---	---	---	---	---
24	14	2.6	11	12	11	5.0	17	---	---	---	---	---
25	11	2.5	9.8	11	9.8	4.1	12	---	---	---	---	---
26	8.8	3.3	8.8	9.9	8.8	3.6	9.2	---	---	---	---	---
27	7.3	189	8.1	9.4	8.3	286	7.4	---	---	---	---	---
28	6.8	412	7.6	20	8.5	39	6.1	---	---	---	---	---
29	6.5	49	7.0	39	---	24	4.6	---	---	---	---	---
30	5.7	34	6.4	22	---	18	5.0	---	---	---	---	---
31	5.6	---	6.0	18	---	15	---	---	---	---	---	---
TOTAL	660.1	900.6	1293.7	1133.6	535.8	1722.5	468.3	---	---	---	---	---
MEAN	21.3	30.0	41.7	36.6	19.1	55.6	15.6	---	---	---	---	---
MAX	120	412	236	224	172	560	262	---	---	---	---	---
MIN	3.5	2.5	6.0	4.2	4.8	3.6	1.9	---	---	---	---	---
CFSM	1.30	1.83	2.54	2.23	1.17	3.39	.95	---	---	---	---	---
IN.	1.50	2.04	2.93	2.57	1.22	3.91	1.06	---	---	---	---	---

e Estimated

TENNESSEE RIVER BASIN

03598173 FALL CREEK NEAR DEASON, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	21.3	30.0	41.7	36.6	19.1	55.6	50.8	4.92	.78	10.7	6.88	16.5
MAX	21.3	30.0	41.7	36.6	19.1	55.6	85.9	4.92	.78	10.7	6.88	16.5
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994	1994
MIN	21.3	30.0	41.7	36.6	19.1	55.6	15.6	4.92	.78	10.7	6.88	16.5
(WY)	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994

SUMMARY STATISTICS	WATER YEARS 1994 - 1995	
HIGHEST DAILY MEAN	600	Apr 6 1994
LOWEST DAILY MEAN	.08	Jul 10 1994
ANNUAL SEVEN-DAY MINIMUM	.12	Jul 4 1994
10 PERCENT EXCEEDS	50	
50 PERCENT EXCEEDS	8.2	
90 PERCENT EXCEEDS	.87	

TENNESSEE RIVER BASIN

03598179 FALL CREEK NEAR HALLS MILL, TN

LOCATION.--Lat 35°33'09", long 86°32'14", Bedford County, Hydrologic Unit 06040002, on right bank at downstream end of bridge on Old Unionville road, 2.5 mi east of Halls Mill, and at mile 1.1.

DRAINAGE AREA.--39.0 mi².

PERIOD OF RECORD.--April 1994 to April 1995 (discontinued).

GAGE.--Data logger and crest-stage gage. Elevation of gage is 682 ft above sea level from topographic map.

REMARKS.--Records good.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 28	0630	2,870	9.17	Mar. 8	0430	*3,110	*9.45
Dec. 10	1745	1,520	7.32	Mar. 27	1200	1,560	7.38
Jan. 6	1945	1,710	7.66	Apr. 21	0600	1,760	7.75

Minimum daily discharge, 2.1 ft³/s, Nov. 24, 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO APRIL 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	9.8	61	15	40	23	30	---	---	---	---	---
2	16	6.7	47	14	35	22	27	---	---	---	---	---
3	13	4.7	40	13	31	21	24	---	---	---	---	---
4	13	3.4	447	13	28	21	23	---	---	---	---	---
5	12	4.5	377	12	25	404	21	---	---	---	---	---
6	7.2	65	159	472	23	177	20	---	---	---	---	---
7	4.0	30	100	269	22	428	19	---	---	---	---	---
8	3.0	20	70	90	21	1530	17	---	---	---	---	---
9	99	18	56	60	20	219	16	---	---	---	---	---
10	85	51	550	45	21	123	15	---	---	---	---	---
11	38	38	256	66	22	85	14	---	---	---	---	---
12	58	27	117	82	18	63	17	---	---	---	---	---
13	299	21	80	57	17	51	18	---	---	---	---	---
14	290	18	60	342	16	43	15	---	---	---	---	---
15	131	15	48	392	20	38	14	---	---	---	---	---
16	72	13	45	161	396	34	13	---	---	---	---	---
17	45	12	46	97	164	31	13	---	---	---	---	---
18	33	9.6	38	70	90	29	13	---	---	---	---	---
19	28	7.1	33	57	65	27	13	---	---	---	---	---
20	26	5.5	31	48	52	25	16	---	---	---	---	---
21	22	4.6	28	39	42	25	747	---	---	---	---	---
22	20	3.4	26	33	35	23	90	---	---	---	---	---
23	47	2.6	25	31	32	21	49	---	---	---	---	---
24	31	2.1	23	27	29	19	43	---	---	---	---	---
25	23	2.1	21	25	27	18	29	---	---	---	---	---
26	18	2.6	20	23	25	17	21	---	---	---	---	---
27	15	425	19	22	25	524	17	---	---	---	---	---
28	12	1190	18	55	25	108	13	---	---	---	---	---
29	10	156	17	136	---	57	11	---	---	---	---	---
30	8.7	88	16	67	---	42	11	---	---	---	---	---
31	8.4	---	15	48	---	35	---	---	---	---	---	---
TOTAL	1508.3	2255.7	2889	2881	1366	4283	1389	---	---	---	---	---
MEAN	48.7	75.2	93.2	92.9	48.8	138	46.3	---	---	---	---	---
MAX	299	1190	550	472	396	1530	747	---	---	---	---	---
MIN	3.0	2.1	15	12	16	17	11	---	---	---	---	---
CFSM	1.25	1.93	2.39	2.38	1.25	3.54	1.19	---	---	---	---	---
IN.	1.44	2.15	2.76	2.75	1.30	4.09	1.32	---	---	---	---	---

TENNESSEE RIVER BASIN

03598179 FALL CREEK NEAR HALLS MILL, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	48.7	75.2	93.2	92.9	48.8	138	107	14.4	1.40	17.6	19.5	27.4
MAX	48.7	75.2	93.2	92.9	48.8	138	167	14.4	1.40	17.6	19.5	27.4
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994	1994
MIN	48.7	75.2	93.2	92.9	48.8	138	46.3	14.4	1.40	17.6	19.5	27.4
(WY)	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994

SUMMARY STATISTICS	WATER YEARS 1994 - 1995	
HIGHEST DAILY MEAN	1530	Mar 8 1995
LOWEST DAILY MEAN	.05	Jun 24 1994
ANNUAL SEVEN-DAY MINIMUM	.14	Jul 5 1994
10 PERCENT EXCEEDS	129	
50 PERCENT EXCEEDS	21	
90 PERCENT EXCEEDS	1.1	

TENNESSEE RIVER BASIN

03598250 NORTH FORK CREEK NEAR POPLINS CROSSROADS, TN

LOCATION.--Lat 35°35'06", long 86°35'45", Bedford County, Hydrologic Unit 06040002, on left bank 25 ft downstream from State Highway 270 bridge, 1.2 mi downstream from Weakly Creek, 0.8 mi northwest of Poplins Crossroads, and at mile 3.4.

DRAINAGE AREA.--71.9 mi².

PERIOD OF RECORD.--April 1994 to April 1995 (discontinued).

GAGE.--Data logger. Elevation of gage is 662 ft above sea level from topographic map.

REMARKS.--Records good.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 28	0545	2,130	10.01	Jan. 15	1345	1,040	7.71
Dec. 4	1500	1,070	7.81	Mar. 5	1545	1,100	7.89
Dec. 10	1915	1,590	9.02	Mar. 8	0800	*3,990	*12.48
Jan. 6	2145	1,450	8.72	Mar. 27	1600	2,680	10.83
Jan. 14	1315	1,040	7.72	Apr. 21	0600	2,440	10.49

Minimum discharge, 2.5 ft³/s, Oct. 8, 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO APRIL 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	11	98	21	73	38	53	---	---	---	---	---
2	10	9.8	79	19	64	33	45	---	---	---	---	---
3	8.7	8.2	68	17	57	31	38	---	---	---	---	---
4	7.8	7.1	644	16	50	30	33	---	---	---	---	---
5	5.6	11	615	15	44	570	28	---	---	---	---	---
6	4.2	149	249	419	39	314	26	---	---	---	---	---
7	3.5	70	154	578	37	594	23	---	---	---	---	---
8	2.8	45	113	157	35	2790	21	---	---	---	---	---
9	38	36	99	110	30	404	19	---	---	---	---	---
10	82	60	710	85	32	212	17	---	---	---	---	---
11	32	56	552	194	35	144	17	---	---	---	---	---
12	42	42	192	230	28	108	23	---	---	---	---	---
13	327	34	133	131	24	86	22	---	---	---	---	---
14	294	28	104	628	23	71	18	---	---	---	---	---
15	146	23	84	691	32	60	17	---	---	---	---	---
16	91	21	80	308	810	53	16	---	---	---	---	---
17	62	19	94	178	308	47	17	---	---	---	---	---
18	46	17	77	130	167	41	17	---	---	---	---	---
19	37	14	63	139	124	36	18	---	---	---	---	---
20	33	12	56	130	101	33	49	---	---	---	---	---
21	28	11	50	100	81	42	1610	---	---	---	---	---
22	26	9.5	46	81	67	36	219	---	---	---	---	---
23	72	7.8	43	72	59	30	123	---	---	---	---	---
24	46	6.7	39	61	53	25	98	---	---	---	---	---
25	32	6.3	35	54	47	22	70	---	---	---	---	---
26	25	7.3	32	49	43	20	55	---	---	---	---	---
27	21	518	29	46	41	1550	45	---	---	---	---	---
28	18	1500	27	110	42	299	38	---	---	---	---	---
29	15	243	25	197	---	120	31	---	---	---	---	---
30	13	136	24	111	---	84	30	---	---	---	---	---
31	12	---	22	85	---	64	---	---	---	---	---	---
TOTAL	1594.6	3118.7	4636	5162	2546	7987	2836	---	---	---	---	---
MEAN	51.4	104	150	167	90.9	258	94.5	---	---	---	---	---
MAX	327	1500	710	691	810	2790	1610	---	---	---	---	---
MIN	2.8	6.3	22	15	23	20	16	---	---	---	---	---
CFSM	.72	1.45	2.08	2.32	1.26	3.58	1.31	---	---	---	---	---
IN.	.83	1.61	2.40	2.67	1.32	4.13	1.47	---	---	---	---	---

TENNESSEE RIVER BASIN

03598250 NORTH FORK CREEK NEAR POPLINS CROSSROADS, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	51.4	104	150	167	90.9	258	232	27.6	2.72	18.6	30.4	24.9
MAX	51.4	104	150	167	90.9	258	369	27.6	2.72	18.6	30.4	24.9
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994	1994
MIN	51.4	104	150	167	90.9	258	94.5	27.6	2.72	18.6	30.4	24.9
(WY)	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994

SUMMARY STATISTICS	WATER YEARS 1994 - 1995	
HIGHEST DAILY MEAN	2790	Mar 8 1995
LOWEST DAILY MEAN	.46	Jun 21 1994
ANNUAL SEVEN-DAY MINIMUM	.64	Jun 18 1994
10 PERCENT EXCEEDS	215	
50 PERCENT EXCEEDS	31	
90 PERCENT EXCEEDS	1.3	

TENNESSEE RIVER BASIN

03599500 DUCK RIVER AT COLUMBIA, TN

LOCATION.--Lat 35°37'05", long 87°01'56", Maury County, Hydrologic Unit 06040003, on right bank 4 ft downstream from bridge on former U.S. Highway 31, 2 blocks north of public square in Columbia, 2.4 mi upstream from Rutherford Creek, and at mile 132.8.

DRAINAGE AREA.--1,208 mi².

PERIOD OF RECORD.--October 1904 to December 1908, April 1920 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at same site, 1887-95, 1911 (fragmentary), 1947-71, published in reports of U.S. Weather Bureau. Discharge records furnished by Tennessee Valley Authority, 1983-1991.

REVISED RECORD.--WSP 783: 1929(M). WSP 853: Drainage area. WSP 1306: 1905-9, 1920-22, 1923(M).

GAGE.--Data collection platform. Datum of gage is 535.33 ft above sea level, supplementary adjustment of 1955. Prior to Jan. 9, 1925, nonrecording gages near this site; all gages at datum 2.37 ft higher prior to Oct. 1, 1933.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water quality data. Maximum discharge prior to regulation, 61,500 ft³/s, Mar. 17, 1973; maximum gage height, 51.75 ft Feb. 14, 1948; minimum no flow Oct. 22, 1922, caused by regulation by power plant .75 mi upstream. Flow regulated by Normandy Lake (station 03596460) since January 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 30, 1902, reached a stage of 48.0 ft, present datum, discharge, 50,700 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,600 ft³/s, at 0900 hours March 9, gage height, 31.20 ft; minimum, 180 ft³/s, Sept. 7, 8, 9, 10, 11.

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	377	338	3800	401	1740	789	1130	596	480	304	259	218
2	319	320	2790	384	1560	764	940	1150	1380	284	239	202
3	293	304	2350	362	1390	704	808	1670	1780	276	221	229
4	272	292	4470	343	1240	648	698	1160	991	497	225	289
5	263	306	8410	324	1100	1800	605	831	718	704	265	238
6	253	759	7060	1260	995	6110	538	704	591	538	337	202
7	236	1370	4800	5950	907	7670	483	595	551	447	829	188
8	233	1160	3560	6150	856	20100	432	497	516	363	1650	182
9	274	938	2860	2920	805	21900	393	3390	478	318	3170	183
10	274	1070	5180	1960	751	13300	370	5010	414	292	2990	180
11	943	1560	9980	1680	721	6360	365	5480	475	272	1530	184
12	882	1500	8490	1970	713	4700	387	3310	1800	264	917	197
13	963	1200	4700	2220	660	3750	373	2540	2320	278	637	319
14	2550	1020	3220	4080	603	3140	390	1940	1300	255	559	773
15	3250	912	2510	8730	589	2730	356	1840	790	258	429	2260
16	2510	839	2090	8290	2360	2420	302	1650	567	246	347	1420
17	1510	781	1930	5590	5880	1760	282	1210	437	271	322	3130
18	1030	834	1640	3710	4840	1400	287	801	406	310	311	3570
19	791	943	1310	4030	3140	1180	276	1630	399	274	296	1580
20	662	917	1140	4440	2440	879	371	2600	989	258	281	961
21	579	892	997	3610	2020	788	5080	1610	1540	226	294	700
22	609	860	862	2560	1740	733	10200	1110	794	214	602	549
23	712	808	791	2020	1530	678	4260	873	536	270	661	460
24	893	720	732	1770	1370	573	2420	728	415	297	414	472
25	880	699	682	1580	1140	494	1840	701	379	313	319	475
26	687	712	631	1420	946	444	1390	1170	427	459	276	425
27	551	2630	586	1300	869	3660	1040	1160	420	414	255	378
28	469	11200	547	1300	821	6620	847	732	384	332	242	341
29	408	14700	515	2020	---	3780	703	651	335	316	235	320
30	383	7990	459	2800	---	2010	630	593	330	325	219	300
31	356	---	418	2110	---	1480	---	520	---	287	205	---
TOTAL	24412	58574	89510	87284	43726	123364	38196	48452	22942	10162	19536	20925
MEAN	787	1952	2887	2816	1562	3979	1273	1563	765	328	630	697
MAX	3250	14700	9980	8730	5880	21900	10200	5480	2320	704	3170	3570
MIN	233	292	418	324	589	444	276	497	330	214	205	180
(†)	-1100	-7300	-3600	+700	+600	+6000	+5900	+2600	-2300	-2300	-1700	-2200
MEAN‡	752	1709	2721	2838	1583	4173	1470	1647	688	254	575	624
CFSM‡	.62	1.41	2.29	2.34	1.31	3.45	1.22	1.36	.57	.21	.48	.52
IN.‡	.72	1.58	2.64	2.71	1.36	3.98	1.36	1.57	.64	.24	.55	.58

CAL YR 1994 MEAN‡ 3194 CFMS‡ 2.64 IN.‡ 35.89
WTR YR 1995 MEAN‡ 1596 CFMS‡ 1.32 IN.‡ 17.93

† Change in contents, in cfs-days, in Normandy Lake.
‡ Adjusted for change in contents.
NOTE.--Contents (cfs-days) for adjustments furnished by Tennessee Valley Authority.

TENNESSEE RIVER BASIN

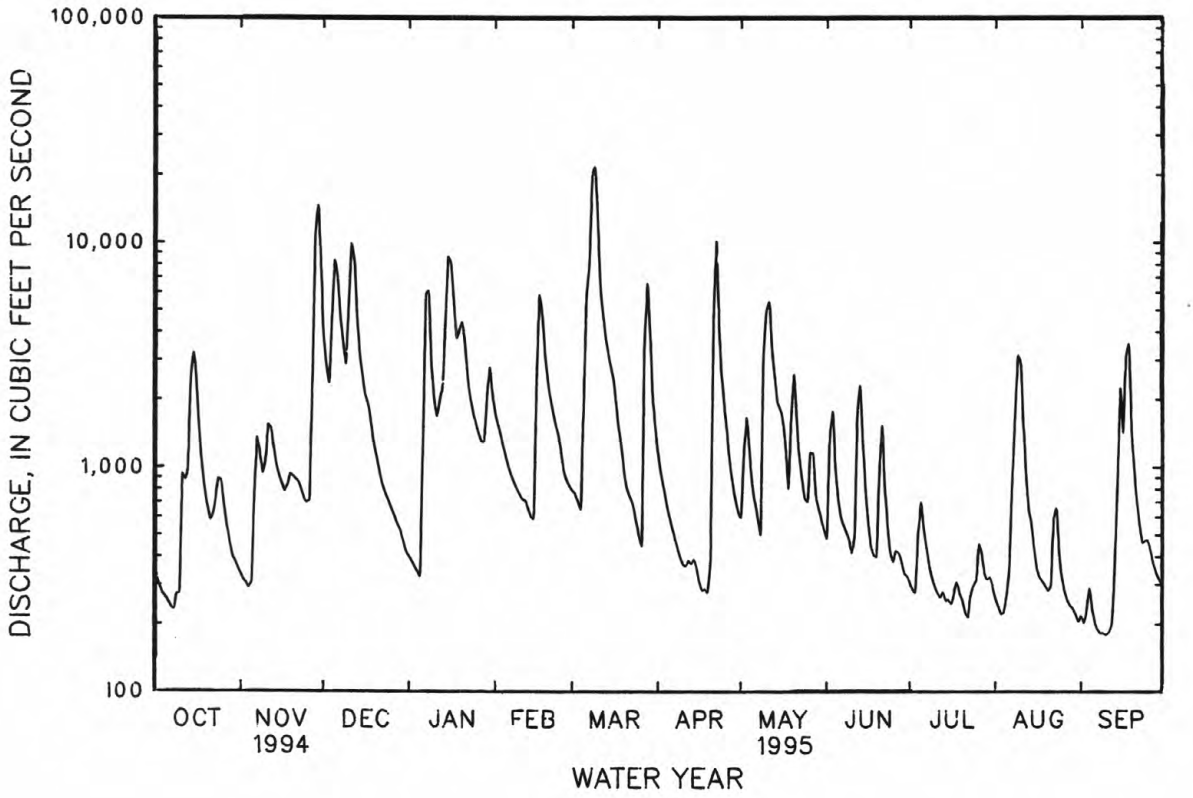
03599500 DUCK RIVER AT COLUMBIA, TN--Continued

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

MEAN	795	2239	3728	3410	3650	4090	2694	2134	853	668	403	680
MAX	3642	5925	10360	8513	9901	10090	7464	9105	4117	4740	938	3832
(WY)	1990	1987	1991	1979	1991	1980	1994	1983	1989	1989	1982	1979
MIN	180	236	418	273	953	1104	325	244	167	220	185	163
(WY)	1988	1981	1981	1986	1978	1985	1986	1988	1988	1988	1991	1984

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		*WATER YEARS 1977 - 1995	
ANNUAL TOTAL	1166049		587083			
ANNUAL MEAN	3195		1608		2106	
HIGHEST ANNUAL MEAN					3282	1989
LOWEST ANNUAL MEAN					553	1981
HIGHEST DAILY MEAN	39100	Mar 29	21900	Mar 9	52300	Feb 20 1991
LOWEST DAILY MEAN	177	Sep 16	180	Sep 10	86	Oct 4 1982
ANNUAL SEVEN-DAY MINIMUM	187	Sep 13	188	Sep 6	100	Sep 28 1982
INSTANTANEOUS PEAK FLOW			22600	Mar 9	52300	Feb 20 1991
INSTANTANEOUS PEAK STAGE			31.20	Mar 9	45.82	Feb 20 1991
INSTANTANEOUS LOW FLOW			a180	Sep 7		
10 PERCENT EXCEEDS	8910		3760		4900	
50 PERCENT EXCEEDS	882		759		757	
90 PERCENT EXCEEDS	250		273		189	

* Regulated period only.
a Also occurred Sept. 8-11.



TENNESSEE RIVER BASIN

03600085 CARTERS CREEK AT PETTY LANE NEAR CARTERS CREEK, TN

LOCATION.--Lat 35°43'39", long 86°59'19", Maury County, Hydrologic Unit 06040003, at bridge on Petty Lane, 0.8 mile north of Carters Creek, and at mile 4.7.

DRAINAGE AREA.--16.6 mi².

PERIOD OF RECORD.--October 1986 to current year

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

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	TEMPERATURE WATER (DEG C)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (MG/L)
NOV 08...	0900	80020	7.2	405	411	11.5	7.2	7.7	756	9.1
FEB 22...	0930	80020	17	359	360	4.5	7.6	8.0	755	12.9
MAY 24...	0930	80020	16	388	372	18.0	8.0	7.7	751	7.9
JUL 19...	0915	80020	1.1	413	402	20.5	7.6	7.2	749	5.7

DATE	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
NOV 08...	84	K740	--	<1	<100	<1	<1	<1	<1	<0.10
FEB 22...	101	110	150	<1	<100	1	<1	<1	<1	<0.10
MAY 24...	85	K1000	2600	2	<100	<1	<1	<1	<1	<0.10
JUL 19...	65	690	K1200	<1	<100	<1	<1	<1	<1	<0.10

DATE	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 08...	<1	<2	<1	<10	<0.010	<1	5	0.10	84
FEB 22...	<1	<1	<1	<10	<0.010	3	2	0.09	100
MAY 24...	1	<1	<1	<10	<0.010	8	19	0.81	66
JUL 19...	<1	<1	<1	<10	<0.010	<1	6	0.02	100

K--Results based on non-ideal colony count.

TENNESSEE RIVER BASIN

03600086 CARTERS CREEK TRIBUTARY NEAR CARTERS CREEK, TN

LOCATION.--Lat 35°43'34", long 86°59'19", Maury County, Hydrologic Unit 06040003, at culvert on Carters Creek Road, 0.7 mile north of Carters Creek.

DRAINAGE AREA.--2.94 mi².

PERIOD OF RECORD.--October 1986 to current year.

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

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	TEMPERATURE WATER (DEG C)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (MG/L)
NOV 08...	1015	80020	3.0	581	--	15.5	7.1	--	756	8.6
FEB 22...	1100	80020	2.9	702	681	9.0	7.6	7.9	755	12.7
MAY 24...	1045	80020	2.8	614	600	22.0	7.9	7.7	751	8.2
JUL 19...	1030	80020	1.0	548	457	24.5	7.6	7.8	749	6.7

DATE	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
NOV 08...	87	200	--	<1	<100	<1	<1	2	<1	<0.10
FEB 22...	111	K13	K18	<1	<100	<1	<1	<1	<1	<0.10
MAY 24...	95	76	120	2	<100	<1	<1	<1	<1	<0.10
JUL 19...	82	80	260	<1	<100	<1	<1	<1	<1	<0.10

DATE	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 08...	<1	<1	<1	<10	--	<1	7	0.06	31
FEB 22...	<1	<1	<1	<10	<0.010	<1	20	0.16	95
MAY 24...	<1	<1	<1	<10	<0.010	--	19	0.14	92
JUL 19...	<1	<1	<1	<10	<0.010	<1	4	0.01	100

K--Results based on non-ideal colony count.

TENNESSEE RIVER BASIN

03600088 CARTERS CREEK AT BUTLER ROAD AT CARTERS CREEK, TN

LOCATION.--Lat 35°43'02", long 86°59'45", Maury County, Hydrologic Unit 06040003, on left bank at end of Butler road bridge, 0.1 mi west of Carters Creek, 0.3 mi upstream from Terrell Branch, 3.7 mi upstream from Rutherford Creek, and at mile 3.7.

DRAINAGE AREA.--20.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1986 to current year. Occasional low-flow measurements, water year 1986.

GAGE.--Data logger, crest-stage gage and concrete weir. Datum of gage is 605.94 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Diurnal fluctuation caused by industrial development upstream.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 27	2315	1,290	8.97	May 1	1700	952	7.76
Dec. 10	1345	1,020	7.99	May 9	1115	*1,420	*9.42
Mar. 7	1845	1,070	8.20				

Minimum discharge, 0.66 ft³/s, Sept. 7, 8, 9, 11, 12.

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	3.9	30	9.8	34	12	13	102	10	5.7	2.7	1.1
2	1.8	3.6	25	8.9	30	12	12	60	13	3.8	2.1	1.1
3	1.8	3.4	29	8.5	27	11	11	36	10	3.1	1.8	.97
4	1.8	3.2	226	8.0	25	11	10	32	8.2	2.9	1.5	.91
5	1.6	8.7	108	7.3	22	76	9.0	26	6.9	9.7	23	.83
6	1.5	25	71	207	20	66	8.4	21	7.0	6.1	32	.78
7	1.4	13	51	113	19	339	8.0	17	9.8	4.1	28	.72
8	1.3	9.8	40	66	17	390	7.6	15	7.2	3.2	20	.69
9	5.4	31	36	46	15	135	7.0	236	5.9	2.9	22	.69
10	5.9	42	394	37	16	94	6.7	79	5.0	2.5	26	.71
11	4.1	27	135	58	15	70	7.4	46	29	2.3	17	.70
12	6.7	19	85	55	13	53	11	34	41	2.1	12	.75
13	19	16	61	44	12	43	8.1	28	22	1.8	8.5	40
14	16	13	45	181	12	37	7.2	24	15	1.6	6.5	21
15	12	12	38	220	19	33	6.3	29	11	1.5	5.3	9.2
16	8.7	9.8	35	113	38	29	5.7	23	8.6	2.1	4.4	45
17	6.8	8.9	34	80	35	26	8.7	19	7.1	2.0	3.8	31
18	5.5	8.5	30	60	31	24	9.4	40	6.1	2.1	3.2	15
19	4.9	7.7	27	168	27	22	7.7	54	5.4	1.9	3.0	9.0
20	4.4	7.1	25	97	25	21	10	35	5.4	1.6	3.4	6.6
21	4.5	6.7	22	70	22	20	89	27	4.9	1.4	4.4	5.1
22	28	5.9	20	53	19	17	34	22	4.2	1.8	3.4	4.1
23	19	5.3	18	43	18	16	31	18	4.0	4.6	2.7	3.5
24	11	5.2	16	37	16	13	29	15	4.3	8.7	2.3	2.9
25	7.9	5.1	15	32	14	12	23	13	4.3	6.2	1.9	2.7
26	6.5	6.1	14	29	14	12	18	11	4.1	3.9	1.8	3.6
27	5.5	212	13	28	14	37	15	10	3.5	9.6	1.7	3.4
28	5.1	174	12	56	14	23	13	15	3.0	10	1.5	2.7
29	4.7	58	11	70	---	19	11	12	2.8	7.7	1.3	2.2
30	4.3	39	11	46	---	16	12	9.5	3.5	4.7	1.2	1.9
31	4.3	---	10	38	---	14	---	8.7	---	3.4	1.1	---
TOTAL	213.4	789.9	1687	2089.5	583	1703	449.2	1117.2	272.2	125.0	249.5	218.85
MEAN	6.88	26.3	54.4	67.4	20.8	54.9	15.0	36.0	9.07	4.03	8.05	7.29
MAX	28	212	394	220	38	390	89	236	41	10	32	45
MIN	1.3	3.2	10	7.3	12	11	5.7	8.7	2.8	1.4	1.1	.69
CFSM	.34	1.31	2.71	3.35	1.04	2.73	.74	1.79	.45	.20	.40	.36
IN.	.39	1.46	3.12	3.87	1.08	3.15	.83	2.07	.50	.23	.46	.41

TENNESSEE RIVER BASIN

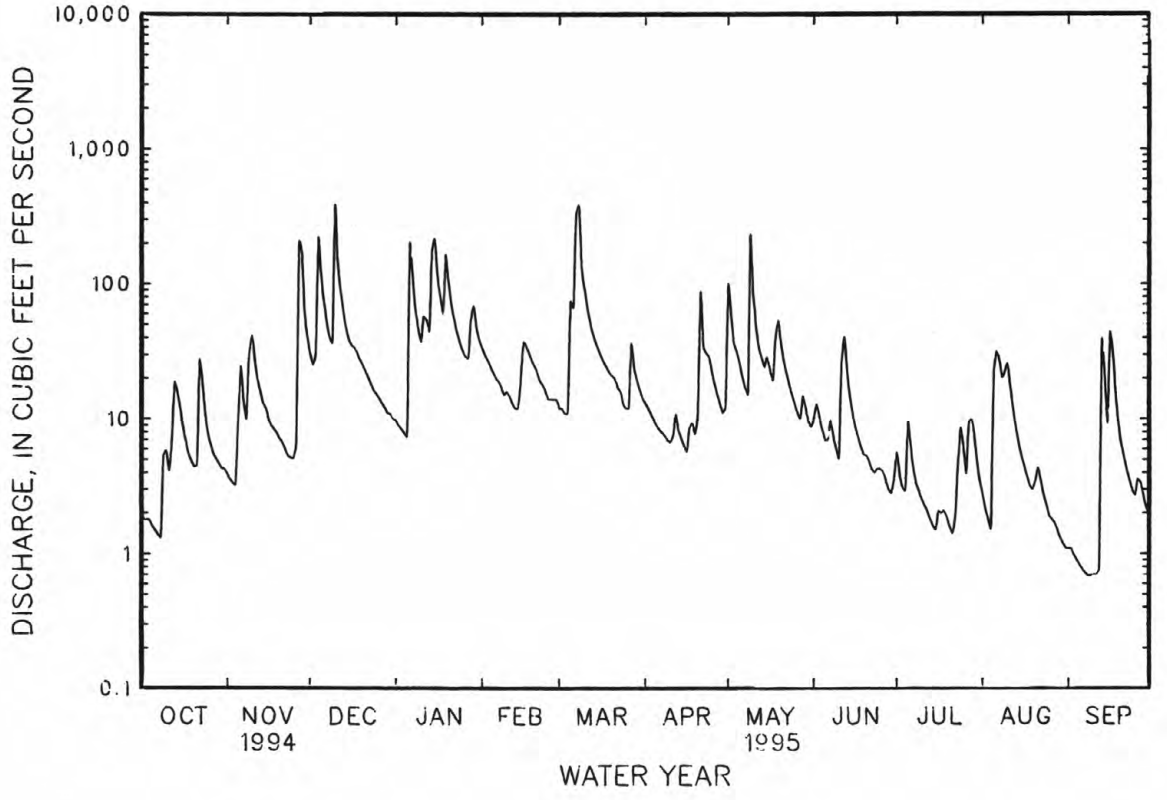
03600088 CARTERS CREEK AT BUTLER ROAD AT CARTERS CREEK, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1995, BY WATER YEAR (WY)

MEAN	7.45	29.8	63.3	58.2	78.9	64.3	38.0	29.0	12.5	10.8	3.61	6.08
MAX	44.8	64.7	126	93.4	146	138	97.2	93.4	42.0	45.5	8.05	20.3
(WY)	1990	1989	1991	1989	1990	1994	1994	1991	1989	1989	1995	1989
MIN	.51	2.49	18.7	33.6	20.8	20.5	13.9	3.11	.51	.54	.47	.99
(WY)	1988	1994	1990	1987	1995	1988	1992	1988	1988	1988	1987	1987

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1987 - 1995	
ANNUAL TOTAL	16102.8		9497.75			
ANNUAL MEAN	44.1		26.0		33.3	
HIGHEST ANNUAL MEAN					50.0	1989
LOWEST ANNUAL MEAN					17.4	1988
HIGHEST DAILY MEAN	1050	Mar 27	394	Dec 10	1430	Feb 3 1990
LOWEST DAILY MEAN	1.2	Sep 16	.69	Sep 8	.12	Aug 15 1987
ANNUAL SEVEN-DAY MINIMUM	1.5	Sep 11	.72	Sep 6	.15	Jun 25 1988
INSTANTANEOUS PEAK FLOW			1420	May 9	2990	Feb 3 1990
INSTANTANEOUS PEAK STAGE			9.42	May 9	14.83	Feb 3 1990
INSTANTANEOUS LOW FLOW			a.66	Sep 7	b.11	Aug 15 1987
ANNUAL RUNOFF (CFSM)	2.19		1.29		1.66	
ANNUAL RUNOFF (INCHES)	29.80		17.58		22.50	
10 PERCENT EXCEEDS	106		55		69	
50 PERCENT EXCEEDS	13		12		12	
90 PERCENT EXCEEDS	2.2		2.0		.77	

a Also occurred Sept. 8, 9, 11, 12.
b Also occurred Aug. 16, 1987, June 26, 1988.



PERIOD OF RECORD.--October 1986 to current year.

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

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	TEMPERATURE WATER (DEG C)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (MG/L)
NOV 08...	1145	80020	9.9	452	444	15.0	7.6	8.0	756	11.4
FEB 22...	1230	80020	19	402	398	8.5	8.0	8.2	755	14.5
MAY 24...	1215	80020	14	398	410	20.5	8.2	7.9	751	8.8
JUL 19...	1130	80020	1.8	477	524	25.5	7.7	7.7	749	7.8

DATE	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
NOV 08...	114	200	--	<1	<100	<1	<1	1	<1	0.10
FEB 22...	125	43	K18	<1	<100	<1	<1	<1	<1	<0.10
MAY 24...	99	600	490	2	<100	<1	<1	<1	<1	<0.10
JUL 19...	97	210	480	<1	<100	<1	<1	<1	<1	<0.10

DATE	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 08...	<1	<1	<1	<10	<0.010	<1	2	0.05	100
FEB 22...	<1	<1	<1	<10	<0.010	<1	1	0.05	100
MAY 24...	<1	<1	<1	<10	<0.010	<1	--	--	--
JUL 19...	<1	<1	<1	<10	<0.010	<1	11	0.05	95

K--Results based on non-ideal colony count.

TENNESSEE RIVER BASIN

03602219 PINEY RIVER AT CEDAR HILL, TN

LOCATION.--Lat 35°59'43", long 87°26'22", Dickson County, Hydrologic Unit 06040003, on right bank 300 ft upstream of Interstate Highway 40 bridge, 0.2 mi southeast of Cedar Hill, 0.5 mi upstream from Double Branch, and at mile 22.

DRAINAGE AREA.--46.6 mi².

PERIOD OF RECORD.--October 1987 to current year, discharge for stage of 7.00 ft and below only.

GAGE.--Data collection platform. Datum of gage is 552.20 ft above sea level.

REMARKS.--Records good. The City of Dickson diverts water for municipal water supply at confluence of West Piney River, 1.6 mi upstream from gage. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, not determined; maximum gage height, 19.78 ft, May 27, 1991; minimum discharge, 7.6 ft³/s, Sept. 4, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, not determined; maximum gage height, 10.87 ft, Mar. 7; minimum discharge, 14 ft³/s, Sept. 30.

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	15	17	51	27	75	45	41	65	71	25	33	18
2	15	17	43	25	73	43	38	62	84	24	30	18
3	17	17	38	25	67	41	35	53	75	23	28	18
4	16	17	70	24	62	41	34	52	64	24	26	17
5	15	19	80	23	57	51	32	47	58	25	48	18
6	15	27	65	135	52	58	31	44	58	23	38	17
7	15	19	56	165	50	---	29	41	67	22	45	17
8	15	18	48	111	47	---	28	39	53	21	49	17
9	38	19	48	92	e46	---	27	---	47	22	72	18
10	20	23	237	78	45	397	26	204	43	21	60	18
11	18	19	199	82	43	274	26	131	45	21	47	18
12	19	18	122	79	40	186	29	104	42	20	40	18
13	34	18	96	72	38	127	25	90	39	20	34	24
14	23	18	81	214	41	97	24	---	36	28	31	21
15	21	18	67	360	176	83	23	---	34	33	29	19
16	19	18	62	315	271	72	22	190	32	23	27	30
17	19	18	62	195	179	62	26	139	31	22	25	22
18	18	18	54	145	141	55	24	---	30	20	24	18
19	19	18	49	---	119	50	23	369	30	21	23	17
20	18	18	46	336	106	52	47	211	45	20	23	17
21	18	18	43	214	94	58	165	149	33	19	22	17
22	18	18	41	158	85	e50	128	119	30	43	22	16
23	18	18	38	128	79	e45	108	101	35	37	21	16
24	17	18	36	106	69	e40	96	89	35	30	20	16
25	17	18	34	94	63	38	84	79	29	26	20	15
26	17	18	30	85	59	36	74	75	28	34	19	18
27	17	---	29	79	56	61	68	118	27	36	19	16
28	17	---	28	96	52	51	61	114	25	---	19	16
29	17	98	28	93	---	47	55	90	25	83	19	15
30	17	67	28	84	---	44	56	75	25	50	18	15
31	17	---	28	79	---	42	---	71	---	39	18	---
TOTAL	579	---	1937	---	2285	---	1485	---	1276	---	949	540
MEAN	18.7	---	62.5	---	81.6	---	49.5	---	42.5	---	30.6	18.0
MAX	38	---	237	---	271	---	165	---	84	---	72	30
MIN	15	---	28	---	38	---	22	---	25	---	18	15
CFSM	.40	---	1.34	---	1.75	---	1.06	---	.91	---	.66	.39
IN.	.46	---	1.55	---	1.82	---	1.19	---	1.02	---	.76	.43

e Estimated

TENNESSEE RIVER BASIN

03604000 BUFFALO RIVER NEAR FLAT WOODS, TN
(Hydrologic bench-mark station)

LOCATION.--Lat 35°29'45", long 87°49'58", Perry County, Hydrologic Unit 06040004, on right bank 0.4 mi downstream from Little Opossum Creek, 0.5 mi downstream from bridge on State Highway 13, 1.3 mi north of Flat Woods, 3.9 mi upstream from Sinking Creek, and at mile 58.7.

DRAINAGE AREA.--447 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1920 to current year.

REVISED RECORDS.--WSP 758: 1933. WSP 803: 1935. WSP 823: Drainage area. WSP 1436: 1921(M), 1922-24, 1925(M), 1927(M), 1934(M), WRD TN-71: 1970.

GAGE.--Data collection platform. Datum of gage is 513.58 ft above sea level. Prior to May 27, 1934, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1897, that of May 27, 1991.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 28	1330	7,300	11.90	Jan. 20	0530	5,290	9.89
Dec. 11	0700	6,750	11.35	Mar. 8	1030	*15,000	*17.98
Jan. 16	0600	6,610	11.21	May 10	1400	4,800	9.40

Minimum discharge, 199 ft³/s, Sept. 8, 9, 10.

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	266	343	991	393	630	477	519	531	405	309	332	227
2	264	348	798	387	591	454	498	569	443	282	296	228
3	289	346	668	376	570	437	482	516	485	290	273	230
4	295	345	757	367	548	428	474	483	416	562	262	222
5	274	355	1540	353	523	566	461	495	377	569	455	217
6	264	528	1270	595	495	1060	444	463	366	556	1270	212
7	270	600	1010	2370	482	2480	429	440	368	446	1780	208
8	270	488	867	1630	477	13000	407	423	356	360	1880	202
9	349	452	772	1140	454	5990	397	452	336	334	2790	201
10	473	554	2090	960	453	2500	390	2910	321	362	2500	202
11	378	553	5840	856	462	1740	400	1190	320	320	1200	207
12	404	505	2490	843	442	1350	514	793	536	294	888	202
13	1030	474	1540	816	426	1130	548	661	499	278	710	300
14	1100	449	1190	1670	417	990	493	587	394	266	581	639
15	868	429	956	3330	434	892	476	551	351	257	505	464
16	650	412	821	5390	700	792	463	531	329	257	456	370
17	534	392	761	2480	1780	710	454	477	313	265	421	588
18	467	378	689	1640	1250	648	457	453	302	250	376	513
19	428	369	626	2640	994	603	436	643	295	237	358	373
20	404	360	578	4320	855	574	424	689	299	229	336	314
21	434	361	544	2230	788	566	677	525	305	229	378	289
22	420	372	523	1540	721	531	1140	464	293	228	357	273
23	406	348	501	1210	665	519	899	426	285	240	315	257
24	387	338	480	1030	600	512	878	396	305	254	297	242
25	365	337	461	888	540	500	781	375	316	232	285	233
26	364	344	443	792	509	488	682	371	317	228	272	232
27	350	1120	432	731	495	613	624	607	302	332	266	230
28	346	5710	421	714	496	737	579	550	280	579	260	217
29	346	2490	413	751	---	610	537	450	277	1210	247	204
30	342	1320	404	745	---	561	528	415	308	607	239	196
31	340	---	396	680	---	537	---	391	---	401	231	---
TOTAL	13377	21420	31272	43867	17797	42995	16491	18827	10499	11263	20816	8492
MEAN	432	714	1009	1415	636	1387	550	607	350	363	671	283
MAX	1100	5710	5840	5390	1780	13000	1140	2910	536	1210	2790	639
MIN	264	337	396	353	417	428	390	371	277	228	231	196
CFSM	.97	1.60	2.26	3.17	1.42	3.10	1.23	1.36	.78	.81	1.50	.63
IN.	1.11	1.78	2.60	3.65	1.48	3.58	1.37	1.57	.87	.94	1.73	.71

TENNESSEE RIVER BASIN

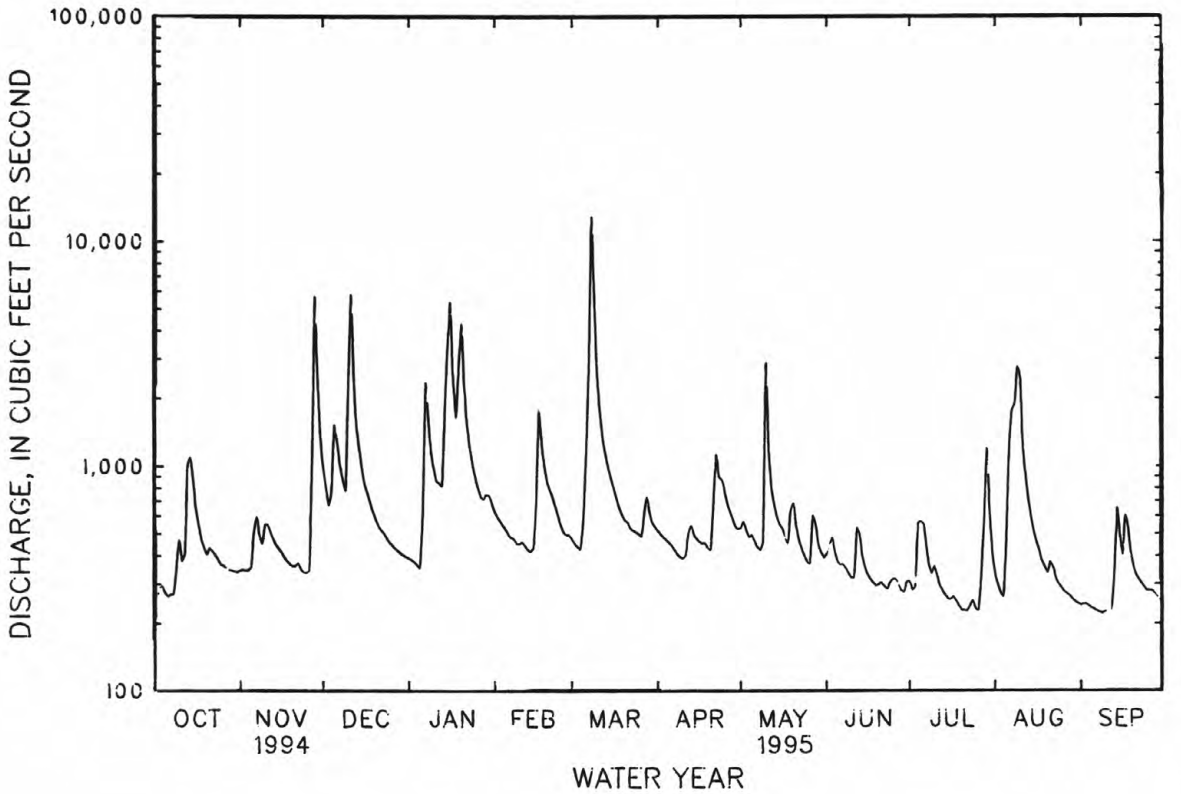
03604000 BUFFALO RIVER NEAR FLAT WOODS, TN--Continued
(Hydrologic bench-mark station)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 1995, BY WATER YEAR (WY)

MEAN	280	518	928	1203	1378	1470	1186	891	450	349	284	267
MAX	1418	2554	3568	3854	4901	4405	3034	5227	1642	1824	1008	1286
(WY)	1933	1958	1927	1937	1948	1973	1964	1991	1974	1932	1923	1979
MIN	112	174	213	234	316	458	303	210	146	121	117	94.2
(WY)	1932	1925	1964	1940	1926	1966	1986	1942	1941	1943	1925	1925

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1920 - 1995	
ANNUAL TOTAL	403616		257116			
ANNUAL MEAN	1106		704		763	
HIGHEST ANNUAL MEAN					1583	1973
LOWEST ANNUAL MEAN					323	1942
HIGHEST DAILY MEAN	19600	Mar 28	13000	Mar 8	75800	May 27 1991
LOWEST DAILY MEAN	261	Aug 30	196	Sep 30	65	Sep 9 1925
ANNUAL SEVEN-DAY MINIMUM	275	Oct 1	205	Sep 6	71	Sep 5 1925
INSTANTANEOUS PEAK FLOW			15000	Mar 8	a96300	May 27 1991
INSTANTANEOUS PEAK STAGE			17.98	Mar 8	a32.19	May 27 1991
INSTANTANEOUS LOW FLOW			b199	Sep 8	65	Sep 9 1925
ANNUAL RUNOFF (CFSM)	2.47		1.58		1.71	
ANNUAL RUNOFF (INCHES)	33.59		21.40		23.20	
10 PERCENT EXCEEDS	2030		1200		1460	
50 PERCENT EXCEEDS	623		457		386	
90 PERCENT EXCEEDS	303		263		177	

a Maximum discharge and gage height from high-water mark in gage house and rating curve extended above 50,000 ft³/s on basis of slope-area and contracted opening measurements and rainfall-runoff study.
b Also occurred Sept. 9, 10.



TENNESSEE RIVER BASIN

03604000 BUFFALO RIVER NEAR FLAT WOODS, TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June 1964 to January 1978.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 31.0oC, July 13-15, 1966; minimum, 0.0oC, many days during winter periods.

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

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	BAROMETRIC PRESSURE (MM OF HG)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
NOV 07...	1100	80020	589	86	90	7.5	7.2	14.5	758	1.8	9.0	89
FEB 14...	1030	80020	431	81	84	7.3	7.6	3.5	758	0.80	12.3	93
MAY 23...	1030	80020	438	86	94	7.6	7.6	20.5	754	2.7	8.0	90
JUL 18...	1000	80020	249	98	105	7.0	7.4	26.5	751	1.9	6.4	81

DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKALINITY LAB (MG/L AS CACO3)
NOV 07...	210	140	43	4	14	1.9	1.2	6	0.1	1.0	39	41
FEB 14...	K5	K5	37	0	12	1.7	1.1	6	0.1	0.60	38	34
MAY 23...	72	400	42	7	14	1.8	1.4	7	0.1	0.80	35	37
JUL 18...	58	600	43	0	14	1.9	1.8	8	0.1	1.4	51	47

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
NOV 07...	3.1	1.7	<0.10	6.3	57	54	0.08	90.6	<0.010	0.080	0.080
FEB 14...	2.6	1.8	<0.10	4.6	46	46	0.06	53.5	<0.010	0.230	0.230
MAY 23...	2.5	2.1	<0.10	5.5	47	53	0.06	55.6	<0.010	0.540	0.540
JUL 18...	2.4	2.5	<0.10	6.8	62	60	0.08	41.7	<0.010	0.120	0.120

K--Results based on non-ideal colony count.

TENNESSEE RIVER BASIN

03604000 BUFFALO RIVER NEAR FLAT WOODS, TN--Continued

WATER-QUALITY RECORDS

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

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	BARIUM, DISSOLVED (UG/L AS BA)	COBALT, DISSOLVED (UG/L AS CO)	IRON, DISSOLVED (UG/L AS FE)
NOV 07...	--	<0.015	<0.20	--	0.020	<0.010	0.010	40	18	<3	68
FEB 14...	0.03	0.020	<0.20	--	<0.010	<0.010	<0.010	20	13	<3	36
MAY 23...	0.05	0.040	0.20	0.74	<0.010	<0.010	<0.010	30	19	<3	72
JUL 18...	0.18	0.140	0.70	0.82	0.020	0.010	0.020	10	20	<3	27

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 07...	<4	8	10	<1	<1	<1.0	50	<6	13	21	--
FEB 14...	<4	6	<10	<1	<1	<1.0	41	<6	3	3.5	77
MAY 23...	<4	8	<10	<1	<1	<1.0	49	<6	10	12	96
JUL 18...	<4	12	<10	<1	<1	<1.0	54	<6	9	6.1	100

DATE	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L)	RA-226 2 SIGMA WATER, DISS, (PCI/L)
NOV 07...	0.19	0.03	<1.0	0.040
JUL 18...	0.05	0.02	<1.0	0.014

TENNESSEE RIVER BASIN

03605078 CYPRESS CREEK AT CAMDEN, TN

LOCATION.--Lat 36°02'49", long 88°04'33", Benton County, Hydrologic Unit 06040005, on left bank, adjacent to southwest corner of third sewage lagoon at Camden Sewage Treatment Plant, 1.5 mi southeast of Camden and 1.4 mi upstream from Kentucky Lake.

DRAINAGE AREA.--27.3 mi².

PERIOD OF RECORD.--January 1992 to current year, discharge for stage of 4.30 ft and below only.

GAGE.--Water-stage recorder. Datum of gage is 360.00 ft above sea level.

REMARKS.--Records fair, except for estimated daily discharges which are poor. Station operated as hydrograph release for City of Camden sewage treatment facility. Periodic observations of specific conductance and water temperature are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, not determined; maximum gage height, 9.44 ft, Dec. 10; minimum discharge, 2.1 ft³/s, Sept. 23-25.

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	e3.4	16	21	15	19	16	19	---	20	e40	e6.4	3.6
2	e3.3	9.7	18	15	17	15	18	46	17	e20	e6.0	2.8
3	e3.4	9.1	18	14	16	15	17	22	19	e12	e5.6	2.6
4	e3.4	8.8	---	14	15	15	16	20	12	e25	e5.2	2.4
5	e3.5	---	---	12	13	54	14	19	10	e18	e45	2.4
6	e3.5	---	36	---	11	---	14	16	---	e15	e60	2.4
7	3.3	19	28	---	12	---	14	14	---	e13	e50	2.4
8	3.3	15	24	---	11	---	13	12	16	e11	e52	2.3
9	16	---	29	42	9.5	---	13	16	12	e10	---	2.1
10	5.7	28	---	34	12	62	12	12	12	e9.0	---	2.1
11	4.2	20	---	37	11	41	17	9.9	12	e8.0	---	2.1
12	---	17	72	32	9.1	32	15	9.5	13	e7.4	e50	2.1
13	---	14	40	---	8.0	28	12	8.9	9.5	e6.4	e25	2.1
14	17	13	31	---	---	24	11	8.3	8.2	e6.2	e18	2.1
15	13	12	25	---	---	22	9.9	e12	7.4	e6.0	e15	2.1
16	11	14	---	---	---	22	9.7	e9.0	6.8	e5.4	e14	2.3
17	8.7	14	---	47	---	19	13	e8.0	6.2	e8.0	e13	19
18	13	12	65	---	52	18	14	e20	5.9	e13	e12	4.6
19	21	11	38	---	38	17	11	e50	6.8	e9.0	e13	3.1
20	14	11	30	---	31	---	---	36	45	e7.0	e20	2.8
21	9.9	17	25	67	25	28	---	21	12	e8.0	e16	2.6
22	9.4	13	31	45	22	20	33	18	8.9	e8.4	e12	2.5
23	9.2	11	26	34	21	18	28	15	8.8	e7.0	e9.6	2.3
24	9.2	10	22	26	19	15	32	12	9.0	e14	e8.0	2.1
25	8.9	10	22	23	18	15	21	9.9	7.7	e18	e6.5	2.2
26	13	11	21	22	18	15	18	10	12	e11	e6.2	7.6
27	7.9	---	19	22	20	---	15	23	e9.0	e15	e5.8	4.9
28	7.4	---	18	---	19	---	13	---	e8.0	e10	e5.5	4.0
29	7.6	48	18	---	---	35	12	25	e7.4	e9.0	e4.7	3.9
30	11	27	17	31	---	25	16	15	e70	e8.0	e4.3	2.9
31	13	---	15	22	---	21	---	17	---	e7.2	e3.9	---
TOTAL	---	---	---	---	---	---	---	---	---	365.0	---	102.4
MEAN	---	---	---	---	---	---	---	---	---	11.8	---	3.41
MAX	---	---	---	---	---	---	---	---	---	40	---	19
MIN	---	---	---	---	---	---	---	---	---	5.4	---	2.1
CFSM	---	---	---	---	---	---	---	---	---	.43	---	.13
IN.	---	---	---	---	---	---	---	---	---	.50	---	.14

e Estimated

TENNESSEE RIVER BASIN

03607198 CLIFTY CREEK AT CLIFTY CREEK ROAD NEAR PARIS, TN

LOCATION.--Lat 36°15'53", long 88°15'14", Henry County, Hydrologic Unit 06040005, on downstream right bank on Clifty Road, 2 mi from intersection of US Highway 641, 3.5 southeast of Paris.

DRAINAGE AREA.--8.06 mi².

PERIOD OF RECORD.--April 1994 to April 1995 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 372 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and period July 15, 1994 to Aug. 10, 1994, Nov. 15, 1994 to Jan. 25, 1995, which are poor. Periodic observations of water temperature and specific conductance are published in this report as miscellanaous water-quality data.

EXTREMES FOR CURRENT PERIOD.--April 1994 to April 1995: Maximum discharge, 198 ft³/s, at 0800 hours June 10, 1994, gage height, 5.60 ft, minimum daily discharge, no flow, several days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR APRIL 1994 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e.10	61	2.6	.00	13	.00
2	---	---	---	---	---	---	e.12	36	1.6	.00	12	.00
3	---	---	---	---	---	---	e.34	26	2.9	.00	11	.00
4	---	---	---	---	---	---	e.31	19	4.8	.00	11	.00
5	---	---	---	---	---	---	e.50	11	2.1	.00	37	.00
6	---	---	---	---	---	---	e.80	4.5	.75	.00	35	.00
7	---	---	---	---	---	---	e.18	4.0	.88	.00	28	.00
8	---	---	---	---	---	---	e.30	9.5	10	.00	25	.00
9	---	---	---	---	---	---	e.20	.37	7.1	.00	25	.00
10	---	---	---	---	---	---	e5.0	.00	150	.00	13	.00
11	---	---	---	---	---	---	e10	.00	29	.00	.00	.00
12	---	---	---	---	---	---	e44	.00	9.6	.00	.00	.00
13	---	---	---	---	---	---	9.7	.00	3.4	.00	.00	.00
14	---	---	---	---	---	---	.00	.00	3.7	.00	.00	.00
15	---	---	---	---	---	---	25	2.0	2.5	.00	.00	.00
16	---	---	---	---	---	---	51	3.2	.68	1.0	.00	.00
17	---	---	---	---	---	---	26	.00	.00	2.3	.00	.00
18	---	---	---	---	---	---	13	.00	.00	2.7	.00	.00
19	---	---	---	---	---	---	12	.00	.00	3.4	.00	.00
20	---	---	---	---	---	---	10	.00	.00	3.1	.00	.00
21	---	---	---	---	---	---	8.2	.00	.00	4.5	.00	.00
22	---	---	---	---	---	---	6.7	.00	.00	7.5	.00	.00
23	---	---	---	---	---	---	5.6	.00	.00	8.8	.00	.00
24	---	---	---	---	---	---	3.5	.00	.00	8.4	.00	.00
25	---	---	---	---	---	---	5.7	.00	.00	8.7	.00	.00
26	---	---	---	---	---	---	27	58	.00	8.2	.00	.00
27	---	---	---	---	---	---	32	46	.00	11	.00	.00
28	---	---	---	---	---	---	38	3.1	.00	13	.00	.00
29	---	---	---	---	---	---	37	.09	.00	13	.00	.00
30	---	---	---	---	---	---	41	4.7	.00	13	.00	.00
31	---	---	---	---	---	---	---	11	---	13	.00	---
TOTAL	---	---	---	---	---	---	413.25	299.46	231.61	121.60	210.00	0.00
MEAN	---	---	---	---	---	---	13.8	9.66	7.72	3.92	6.77	.000
MAX	---	---	---	---	---	---	51	61	150	13	37	.00
MIN	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00

e Estimated

TENNESSEE RIVER BASIN

03607198 CLIFTY CREEK AT CLIFTY CREEK ROAD NEAR PARIS, TN--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO APRIL 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	58	59	.00	11	.00	---	---	---	---	---
2	.00	.00	56	61	.00	5.9	.00	---	---	---	---	---
3	.00	.00	57	61	.74	4.3	.00	---	---	---	---	---
4	.00	.00	63	61	3.6	5.3	.00	---	---	---	---	---
5	.00	.00	78	61	4.4	25	.00	---	---	---	---	---
6	.00	.33	72	68	4.2	71	.00	---	---	---	---	---
7	.00	2.5	69	116	2.2	85	.00	---	---	---	---	---
8	.00	.91	69	79	2.0	113	.00	---	---	---	---	---
9	.00	.04	70	70	1.5	76	.00	---	---	---	---	---
10	.00	.99	96	66	2.0	39	.00	---	---	---	---	---
11	.00	.87	99	69	8.2	23	.00	---	---	---	---	---
12	.00	.00	69	74	8.3	14	.00	---	---	---	---	---
13	.00	.00	62	69	8.3	8.2	.00	---	---	---	---	---
14	.00	.00	58	100	7.3	2.8	.00	---	---	---	---	---
15	.00	.35	57	87	83	.15	.00	---	---	---	---	---
16	.00	2.8	58	73	105	.00	.00	---	---	---	---	---
17	.00	7.3	78	77	88	.00	.00	---	---	---	---	---
18	.00	7.5	71	72	56	.00	.00	---	---	---	---	---
19	.00	7.2	65	85	35	.00	.00	---	---	---	---	---
20	.00	8.4	61	86	25	.25	28	---	---	---	---	---
21	.00	16	59	72	23	18	84	---	---	---	---	---
22	.00	20	60	65	18	4.1	29	---	---	---	---	---
23	.00	21	67	61	19	.05	2.2	---	---	---	---	---
24	.00	21	65	58	19	.00	8.9	---	---	---	---	---
25	.00	19	61	57	13	.00	.65	---	---	---	---	---
26	.00	16	59	8.9	9.0	.00	.00	---	---	---	---	---
27	.00	34	58	.00	12	1.6	e.00	---	---	---	---	---
28	.00	86	58	.22	13	5.3	e.00	---	---	---	---	---
29	.00	70	58	1.4	---	.00	e.00	---	---	---	---	---
30	.00	61	58	.00	---	.00	e.00	---	---	---	---	---
31	.00	---	57	.00	---	.00	---	---	---	---	---	---
TOTAL	0.00	403.19	2026	1817.52	570.74	512.95	152.75	---	---	---	---	---
MEAN	.000	13.4	65.4	58.6	20.4	16.5	5.09	---	---	---	---	---
MAX	.00	86	99	116	105	113	84	---	---	---	---	---
MIN	.00	.00	56	.00	.00	.00	.00	---	---	---	---	---

e Estimated

WEST SANDY RIVER BASIN

03607198 CLIFTY CREEK AT CLIFTY CREEK ROAD NEAR PARIS, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	.000	13.4	65.4	58.6	20.4	16.5	9.43	9.66	7.72	3.92	6.77	.000
MAX	.000	13.4	65.4	58.6	20.4	16.5	13.8	9.66	7.72	3.92	6.77	.000
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994	1994
MIN	.000	13.4	65.4	58.6	20.4	16.5	5.09	9.66	7.72	3.92	6.77	.000
(WY)	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1994 - 1995	
ANNUAL TOTAL	3705.11		5483.15			
ANNUAL MEAN	13.5		25.9		17.1	
HIGHEST ANNUAL MEAN					25.9	1995
LOWEST ANNUAL MEAN					6.97	1994
HIGHEST DAILY MEAN	150	Jun 10	116	Jan 7	150	Jun 10 1994
LOWEST DAILY MEAN	.00	Apr 14	a.00	Oct 1	.00	Apr 14 1994
ANNUAL SEVEN-DAY MINIMUM	.00	May 17	.00	Oct 1	.00	May 17 1994
10 PERCENT EXCEEDS	58		73		65	
50 PERCENT EXCEEDS	.12		5.3		.91	
90 PERCENT EXCEEDS	.00		.00		.00	

a No flow many days each year.

TENNESSEE RIVER BASIN

03607225 HOLLY FORK CREEK AT NOBLES, TN

LOCATION.--Lat 36°21'01", long 88°13'46", Henry County, Hydrologic Unit 06040005, at bridge on U.S. Highway 79 6 mi northeast of Paris, .5 mi southwest of Nobles.

DRAINAGE AREA.--26.8 mi².

PERIOD OF RECORD.--April 1994 to April 1995 (discontinued).

GAGE.--Water-stage recorder. Datum of the gage is 347 ft above sea level.

REMARKS.--Records poor.

EXTREMES FOR CURRENT PERIOD.--April 1994 to April 1995: Maximum discharge 9590 ft³/s, gage height 15.77 ft, May 26; minimum daily 11 ft³/s, several days in August and September 1994.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR APRIL 1994 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e30	35	33	e16	e12	42
2	---	---	---	---	---	---	e31	27	e28	e16	e13	41
3	---	---	---	---	---	---	e45	26	e22	e16	e13	13
4	---	---	---	---	---	---	e40	25	e19	e16	e15	12
5	---	---	---	---	---	---	e60	23	e18	e15	e70	15
6	---	---	---	---	---	---	e62	22	e18	e15	e20	17
7	---	---	---	---	---	---	e38	440	e22	e17	e16	13
8	---	---	---	---	---	---	39	82	e25	e20	e15	12
9	---	---	---	---	---	---	34	26	e35	e22	e14	12
10	---	---	---	---	---	---	1040	20	e50	e18	e14	11
11	---	---	---	---	---	---	1260	18	e30	e15	e14	11
12	---	---	---	---	---	---	171	18	e22	e13	e14	11
13	---	---	---	---	---	---	74	18	e20	e14	e13	11
14	---	---	---	---	---	---	47	20	e19	e15	e13	11
15	---	---	---	---	---	---	1980	63	e18	e41	11	11
16	---	---	---	---	---	---	534	29	e17	e25	11	11
17	---	---	---	---	---	---	64	18	e19	e19	11	18
18	---	---	---	---	---	---	42	18	e16	e15	11	14
19	---	---	---	---	---	---	93	18	e16	e14	11	12
20	---	---	---	---	---	---	255	18	e16	e14	11	12
21	---	---	---	---	---	---	428	18	e16	e13	12	12
22	---	---	---	---	---	---	590	18	e16	e13	12	11
23	---	---	---	---	---	---	522	18	e16	e20	11	19
24	---	---	---	---	---	---	355	18	e20	e16	11	14
25	---	---	---	---	---	---	204	290	e28	e13	11	31
26	---	---	---	---	---	---	61	5660	e25	e13	11	14
27	---	---	---	---	---	---	24	229	e20	e15	11	14
28	---	---	---	---	---	---	162	59	e18	e13	11	13
29	---	---	---	---	---	---	34	35	e17	e13	11	13
30	---	---	---	---	---	---	50	107	e16	e13	11	12
31	---	---	---	---	---	---	---	75	---	e13	11	---
TOTAL	---	---	---	---	---	---	8369	7491	655	511	445	463
MEAN	---	---	---	---	---	---	279	242	21.8	16.5	14.4	15.4
MAX	---	---	---	---	---	---	1980	5660	50	41	70	42
MIN	---	---	---	---	---	---	24	18	16	13	11	11
CFSM	---	---	---	---	---	---	10.4	9.02	.81	.62	.54	.58
IN.	---	---	---	---	---	---	11.62	10.40	.91	.71	.62	.64

e Estimated

TENNESSEE RIVER BASIN

03607225 HOLLY FORK CREEK AT NOBLES, TN--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO APRIL 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	14	23	20	20	16	15	---	---	---	---	---
2	12	13	22	19	20	16	15	---	---	---	---	---
3	12	13	21	19	20	16	15	---	---	---	---	---
4	12	13	48	18	20	16	15	---	---	---	---	---
5	12	18	49	390	19	59	15	---	---	---	---	---
6	12	49	28	893	18	42	15	---	---	---	---	---
7	12	13	24	982	19	497	15	---	---	---	---	---
8	12	13	22	46	19	528	15	---	---	---	---	---
9	12	15	29	29	18	38	15	---	---	---	---	---
10	22	23	1980	25	20	24	15	---	---	---	---	---
11	14	13	537	54	19	21	15	---	---	---	---	---
12	13	13	59	44	454	20	16	---	---	---	---	---
13	19	13	38	28	17	19	14	---	---	---	---	---
14	100	13	32	1150	18	18	14	---	---	---	---	---
15	14	13	29	122	1520	18	14	---	---	---	---	---
16	13	14	71	38	527	18	14	---	---	---	---	---
17	13	14	138	29	79	17	14	---	---	---	---	---
18	13	13	48	27	34	17	14	---	---	---	---	---
19	17	13	33	367	28	16	14	---	---	---	---	---
20	49	13	30	103	25	20	151	---	---	---	---	---
21	14	38	28	40	23	20	176	---	---	---	---	---
22	13	21	31	28	22	17	21	---	---	---	---	---
23	19	17	23	25	22	17	19	---	---	---	---	---
24	13	17	21	23	21	16	20	---	---	---	---	---
25	13	17	20	23	20	16	17	---	---	---	---	---
26	13	18	20	22	20	16	15	---	---	---	---	---
27	13	239	19	23	19	19	e14	---	---	---	---	---
28	13	1370	19	27	17	17	e14	---	---	---	---	---
29	13	58	19	23	---	16	e13	---	---	---	---	---
30	13	28	19	21	---	16	e20	---	---	---	---	---
31	13	---	19	20	---	15	---	---	---	---	---	---
TOTAL	545	2139	3499	4678	3078	1621	759	---	---	---	---	---
MEAN	17.6	71.3	113	151	110	52.3	25.3	---	---	---	---	---
MAX	100	1370	1980	1150	1520	528	176	---	---	---	---	---
MIN	12	13	19	18	17	15	13	---	---	---	---	---
CFSM	.66	2.66	4.21	5.63	4.10	1.95	.94	---	---	---	---	---
IN.	.76	2.97	4.86	6.49	4.27	2.25	1.05	---	---	---	---	---

e Estimated

TENNESSEE RIVER BASIN

03607225 HOLLY FORK CREEK AT NOBLES, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	17.6	71.3	113	151	110	52.3	152	242	21.8	16.5	14.4	15.4
MAX	17.6	71.3	113	151	110	52.3	279	242	21.8	16.5	14.4	15.4
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994	1994
MIN	17.6	71.3	113	151	110	52.3	25.3	242	21.8	16.5	14.4	15.4
(WY)	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1994 - 1995		
ANNUAL TOTAL	24117		16319				
ANNUAL MEAN	87.7		77.0		86.7		
HIGHEST ANNUAL MEAN					98.0		1994
LOWEST ANNUAL MEAN					77.0		1995
HIGHEST DAILY MEAN	5660	May 26	1980	Dec 10	5660	May 26	1994
LOWEST DAILY MEAN	a11	Aug 15	12	Oct 1	a11	Aug 15	1994
ANNUAL SEVEN-DAY MINIMUM	11	Aug 23	12	Oct 1	11	Aug 23	1994
ANNUAL RUNOFF (CFSM)	3.27		2.87		3.24		
ANNUAL RUNOFF (INCHES)	33.48		22.65		43.96		
10 PERCENT EXCEEDS	72		77		80		
50 PERCENT EXCEEDS	18		19		18		
90 PERCENT EXCEEDS	12		13		12		

a Also occurred many days Aug. and Sept. 1994.

TENNESSEE RIVER BASIN

03607232 BEAVERDAM CREEK AT SULPHUR WELL ROAD NEAR NOBLES, TN

LOCATION.--Lat 36°20'11", long 88°11'10", Henry County, Hydrologic Unit 06040005, at bridge on Sulphur Well Road, 9 mi northeast of Paris, 3.8 mi southeast from Nobles.

DRAINAGE AREA.--6.69 mi².

PERIOD OF RECORD.--June 1994 to April 1995.

GAGE.--Water-stage recorder. Datum of the gage is 350 ft above sea level.

REMARKS.--Records fair.

EXTREMES FOR CURRENT PERIOD.--June 1994 to April 1995: Maximum discharge 13 ft³/s, gage height 13.33 ft, Aug. 5; minimum daily discharge 4.2 ft³/s, July 3, 4, 5, 6 and Aug. 2, 3, 1994.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR JUNE 1994 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	e4.7	4.3	4.3	5.5
2	---	---	---	---	---	---	---	---	e4.9	4.3	4.2	5.7
3	---	---	---	---	---	---	---	---	4.8	4.2	4.2	4.6
4	---	---	---	---	---	---	---	---	4.7	4.2	4.3	4.5
5	---	---	---	---	---	---	---	---	4.6	4.2	9.3	4.6
6	---	---	---	---	---	---	---	---	4.6	4.2	4.9	4.8
7	---	---	---	---	---	---	---	---	4.7	4.3	4.6	4.6
8	---	---	---	---	---	---	---	---	5.0	4.5	4.5	4.5
9	---	---	---	---	---	---	---	---	5.4	4.5	4.4	4.4
10	---	---	---	---	---	---	---	---	6.6	4.4	4.4	4.5
11	---	---	---	---	---	---	---	---	4.8	4.3	4.4	4.4
12	---	---	---	---	---	---	---	---	4.6	4.3	4.4	4.4
13	---	---	---	---	---	---	---	---	4.5	4.3	4.4	4.4
14	---	---	---	---	---	---	---	---	4.4	4.3	4.4	4.4
15	---	---	---	---	---	---	---	---	4.4	5.7	4.4	4.4
16	---	---	---	---	---	---	---	---	4.3	5.1	4.4	4.4
17	---	---	---	---	---	---	---	---	4.4	4.6	4.4	4.4
18	---	---	---	---	---	---	---	---	4.3	4.4	4.5	4.6
19	---	---	---	---	---	---	---	---	4.3	4.3	4.4	4.7
20	---	---	---	---	---	---	---	---	4.3	4.3	4.4	4.6
21	---	---	---	---	---	---	---	---	4.3	4.4	4.5	4.5
22	---	---	---	---	---	---	---	---	4.3	4.6	4.4	4.5
23	---	---	---	---	---	---	---	---	4.3	4.7	4.4	4.5
24	---	---	---	---	---	---	---	---	4.4	4.5	4.4	4.9
25	---	---	---	---	---	---	---	---	4.6	4.3	4.4	4.8
26	---	---	---	---	---	---	---	---	4.8	4.3	4.4	5.0
27	---	---	---	---	---	---	---	---	4.9	4.4	4.4	4.7
28	---	---	---	---	---	---	---	---	4.6	4.3	4.4	4.6
29	---	---	---	---	---	---	---	---	4.5	4.3	4.4	4.6
30	---	---	---	---	---	---	---	---	4.3	4.3	4.5	4.5
31	---	---	---	---	---	---	---	---	---	4.3	4.4	---
TOTAL	---	---	---	---	---	---	---	---	139.3	137.1	141.8	139.0
MEAN	---	---	---	---	---	---	---	---	4.64	4.42	4.57	4.63
MAX	---	---	---	---	---	---	---	---	6.6	5.7	9.3	5.7
MIN	---	---	---	---	---	---	---	---	4.3	4.2	4.2	4.4

e Estimated

TENNESSEE RIVER BASIN

03607232 BEAVERDAM CREEK AT SULPHUR WELL ROAD NEAR NOBLES, TN--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO APRIL 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	4.8	4.7	4.7	5.4	4.6	4.7	---	---	---	---	---
2	4.5	4.9	4.7	4.7	5.4	4.6	4.7	---	---	---	---	---
3	4.6	4.8	4.7	4.7	5.4	4.6	4.7	---	---	---	---	---
4	4.6	4.8	5.0	4.6	5.4	4.6	4.7	---	---	---	---	---
5	4.5	4.8	5.1	4.6	5.4	5.0	4.7	---	---	---	---	---
6	4.5	5.0	4.8	6.7	5.4	5.0	4.7	---	---	---	---	---
7	4.5	5.6	4.7	7.5	5.4	5.7	4.7	---	---	---	---	---
8	4.6	4.9	4.7	5.5	5.4	6.3	4.7	---	---	---	---	---
9	4.5	4.8	4.8	5.4	5.4	4.9	4.7	---	---	---	---	---
10	5.0	5.1	8.0	5.4	5.4	4.8	4.7	---	---	---	---	---
11	4.7	4.9	7.0	5.6	5.4	4.7	4.7	---	---	---	---	---
12	4.6	4.8	5.2	5.4	5.4	4.7	4.8	---	---	---	---	---
13	4.8	4.8	5.0	5.4	5.4	4.6	4.7	---	---	---	---	---
14	6.2	4.8	4.9	7.3	5.4	4.6	4.7	---	---	---	---	---
15	4.9	4.8	4.8	5.7	7.6	4.6	4.7	---	---	---	---	---
16	4.7	4.8	5.0	5.5	6.3	4.6	4.7	---	---	---	---	---
17	4.7	4.8	5.4	5.4	5.2	4.6	4.7	---	---	---	---	---
18	4.7	4.7	4.9	5.4	4.9	4.6	4.7	---	---	---	---	---
19	4.8	4.7	4.8	6.0	4.8	4.6	4.7	---	---	---	---	---
20	5.4	4.7	4.8	5.6	4.7	4.8	6.1	---	---	---	---	---
21	5.0	4.9	4.8	5.4	4.7	4.8	6.0	---	---	---	---	---
22	4.8	4.8	4.8	5.4	4.6	4.6	4.9	---	---	---	---	---
23	5.1	4.7	4.8	5.4	4.6	4.6	4.9	---	---	---	---	---
24	4.9	4.7	4.7	5.4	4.6	4.6	5.0	---	---	---	---	---
25	4.8	4.7	4.7	5.4	4.6	4.6	4.8	---	---	---	---	---
26	4.8	4.7	4.7	5.4	4.6	4.6	4.7	---	---	---	---	---
27	4.8	5.8	4.7	5.4	4.6	4.8	e4.7	---	---	---	---	---
28	4.8	6.4	4.7	5.4	4.6	4.7	e4.7	---	---	---	---	---
29	4.8	4.9	4.7	5.4	---	4.7	e4.7	---	---	---	---	---
30	4.8	4.8	4.7	5.4	---	4.7	e4.8	---	---	---	---	---
31	4.8	---	4.7	5.4	---	4.7	---	---	---	---	---	---
TOTAL	148.7	147.7	155.0	170.5	146.0	147.9	144.7	---	---	---	---	---
MEAN	4.80	4.92	5.00	5.50	5.21	4.77	4.82	---	---	---	---	---
MAX	6.2	6.4	8.0	7.5	7.6	6.3	6.1	---	---	---	---	---
MIN	4.5	4.7	4.7	4.6	4.6	4.6	4.7	---	---	---	---	---

e Estimated

TENNESSEE RIVER BASIN

03607232 BEAVERDAM CREEK AT SULPHUR WELL ROAD NEAR NOBLES, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	4.80	4.92	5.00	5.50	5.21	4.77	4.82	---	4.64	4.42	4.57	4.63
MAX	4.80	4.92	5.00	5.50	5.21	4.77	4.82	---	4.64	4.42	4.57	4.63
(WY)	1995	1995	1995	1995	1995	1995	1995	---	1994	1994	1994	1994
MIN	4.80	4.92	5.00	5.50	5.21	4.77	4.82	---	4.64	4.42	4.57	4.63
(WY)	1995	1995	1995	1995	1995	1995	1995	---	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1994 - 1995	
HIGHEST DAILY MEAN	9.3	Aug 5	8.0	Dec 10	9.3	Aug 5 1994
LOWEST DAILY MEAN	a4.2	Jul 3	4.5	Oct 1	a4.2	Jul 3 1994
ANNUAL SEVEN-DAY MINIMUM	4.2	Jun 30	4.5	Oct 1	4.2	Jun 30 1994
10 PERCENT EXCEEDS	5.0		5.5		5.4	
50 PERCENT EXCEEDS	4.6		4.8		4.7	
90 PERCENT EXCEEDS	4.3		4.6		4.4	

a Also occurred July 4, 5, 6, and Aug. 2, 3, 1994.

RESERVOIRS IN TENNESSEE RIVER BASIN

03468500 DOUGLAS LAKE.--Lat 35°57'40", long 83°32'20", Sevier County, Hydrologic Unit 06010107, at Douglas Dam on French Broad River, 6.5 mi north of Sevierville, and at mile 32.3. DRAINAGE AREA, 4,541 mi². PERIOD OF RECORD, February 1943 to current year. GAGE,water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir formed by concrete main dam and 10 saddle dams. Spillway equipped with 11 radial gages, each 32 ft high by 40 ft wide and 8 sluice gates 10 ft high by 5.67 ft wide. Closure of dam was made Feb. 19, 1943; water in reservoir first reached minimum pool elevation Feb. 25, 1943. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,002.00 ft, top of gates, is 743,600 cfs-days, of which 631,200 cfs-days is controlled storage above elevation 940.00 ft, normal minimum pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 760,000 cfs-days, July 25, 1949, elevation, 1,001.79 ft; minimum after first filling, 1,000 cfs-days, Jan. 16, 1956, elevation, 883.7 ft, estimated.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 625,300 cfs-days, June 27, elevation, 994.59 ft; minimum, 108,400 cfs-days, Jan. 6, elevation, 940.52 ft.

03476000 SOUTH HOLSTON LAKE.--Lat 36°31'15", long 82°05'11", Sullivan County, Hydrologic Unit 06010102, 470 ft upstream from South Holston Dam on South Fork Holston River, 7.0 mi southeast of Bristol, Virginia-Tennessee, and at mile 49.8. DRAINAGE AREA, 703 mi². PERIOD OF RECORD, November 1950 to current year. GAGE, water-stage recorder. Datum of gage is sea level. Prior to May 11, 1951, non-recording gage at same site and datum.

REMARKS.--Reservoir is formed by rock and rolled earthfill dam. Spillway is uncontrolled morning-glory type, 128 ft in diameter with six piers, each 3 ft wide to guide flow spilling into a concrete-lined shaft and tunnel 34 ft in diameter. Closure of dam was made Nov. 20, 1950; water in reservoir first reached minimum pool elevation Jan. 25, 1951. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,742.00 ft, spillway crest, is 385,200 cfs-days, of which 220,800 cfs-days is controlled storage above elevation 1,675.00 ft, normal minimum pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 363,800 cfs-days, May 10, 1984, elevation, 1,736.86 ft; minimum after first filling, 57,700 cfs-days, Jan. 13, 1956, elevation, 1,614.15 ft.

EXTREMES FOR CURRENT YEAR.--Maximim contents, 331,300 cfs-days, July 3, elevation 1,728.88 ft: minimum, 214,600 cfs-days, Jan. 6, elevation, 1,693,85 ft.

03483500 WATAUGA LAKE.--Lat 36°19'20", long 82°07'16", Carter County, Hydrologic Unit 06010103, at Watauga Dam on Watauga River, 5 mi east of Elizabethton, and at mile 36.7. DRAINAGE AREA, 468 mi². PERIOD OF RECORD, December 1948 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by rock and rolled earthfill dam. Spillway is uncontrolled morning-glory type, 128 ft in diameter with six piers, each 3 ft wide to guide flow spilling into a concrete-lined shaft and tunnel 34 ft in diameter. Closure of dam was made Dec. 1, 1948; water in reservoir first reached minimum pool elevation Dec. 31, 1948. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,975.00 ft, spillway crest, is 341,300 cfs-days, of which 178,500 cfs-days is controlled storage above elevation 1,915.00 ft, normal minimum pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 300,800 cfs-days, Apr. 19, 1987, elevation, 1,963.28 ft; minimum after first filling, 25,100 cfs-days, Jan. 13, 1956, elevation, 1,813.47 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 286,300 cfs-days, June 28, elevation, 1,958.90 ft; minimum, 213,600 cfs-days, Jan. 6, elevation, 1,934.54 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	03468500 DOUGLAS LAKE			03476000 SOUTH HOLSTON LAKE			03483500 WATAUGA LAKE		
Sept. 30...	974.74	378,400	-	1,716.20	285,100	-	1,945.72	245,400	-
Oct. 31...	958.44	225,200	-153,200	1,706.34	252,400	-32,700	1,942.15	235,000	-10,400
Nov. 30...	946.91	143,700	-81,500	1,697.69	225,800	-26,600	1,937.76	222,600	-12,400
Dec. 31...	943.56	124,200	-19,500	1,695.41	219,100	-6,700	1,935.73	216,900	-5,700
CAL YR 1994	-	-	+3,900	-	-	-23,500	-	-	-11,600
Jan. 31...	950.44	166,300	+42,100	1,704.56	246,800	+27,700	1,943.40	238,600	+21,700
Feb. 28...	957.91	220,900	+54,600	1,709.07	261,200	+14,400	1,945.98	246,100	+7,500
Mar. 31...	967.46	304,900	+84,000	1,717.07	288,100	+26,900	1,953.34	268,400	+22,300
Apr. 30...	975.42	385,700	+80,800	1,718.90	294,600	+6,500	1,951.87	263,900	-4,500
May 31...	987.13	523,300	+137,600	1,727.78	327,100	+32,500	1,957.69	282,300	+18,400
June 30...	993.68	612,300	+89,000	1,727.89	327,500	+400	1,958.20	284,000	+1,700
July 31...	990.49	567,800	-44,500	1,721.52	303,900	-23,600	1,949.98	258,100	-25,900
Aug. 31...	985.01	496,500	-71,300	1,712.42	272,300	-31,600	1,944.31	241,200	-16,900
Sept. 30...	970.43	334,000	-162,500	1,703.05	242,100	-30,200	1,940.43	230,100	-11,100
WTR YR 1995	-	-	-44,400	-	-	-43,000	-	-	-15,300

TENNESSEE RIVER BASIN

RESERVOIRS IN TENNESSEE RIVER BASIN--Continued

03486800 BOONE LAKE.--Lat 36°26'26", long 82°26'16", Sullivan County, Hydrologic Unit 06010102, at Boone Dam on South Fork Holston River, 0.7 mi northeast of Spurgeon, 1.3 mi downstream from Watauga River, and at mile 18.6. DRAINAGE AREA, 1,840 mi². PERIOD OF RECORD, December 1952 to current year. GAGE, water-stage recorder. Datum of gage is sea level.
REMARKS.--Reservoir is formed by gravity nonover-flow type concrete dam. Spillway is equipped with five radial gates, each 35 ft high by 35 ft wide. Storage began Dec. 16, 1952; water in reservoir first reached minimum pool elevation Jan. 5, 1953. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,385.0 ft, top of gates, is 97,500 cfs-days, of which 74,800 cfs-days is controlled storage above elevation 1,330 ft, normal minimum pool. Reservoir is used for navigation, flood control, and power.
COOPERATION.--Records furnished by Tennessee Valley Authority.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 99,100 cfs-days, May 19, 1964, elevation 1,384.99 ft; minimum after first filling, 21,300 cfs-days, Jan. 23, 1956, elevation, 1,327.06 ft.
EXTREMES FOR CURRENT YEAR.--Maximum contents, 96,000 cfs-days, May 15, elevation, 1,384.31 ft; minimum, 45,200 cfs-days, Jan. 3, elevation, 1,353.39 ft.

03487000 FORT PATRICK HENRY LAKE.--Lat 36°29'53", long 82°30'32", Sullivan County, Hydrologic Unit 06010102, at Fort Patrick Henry Dam on South Fork Holston River, 0.2 mi upstream from bridge on U. S. Highway 23, 4.5 mi southeast of Kingsport, and at mile 8.2. DRAINAGE AREA, 1,903 mi². PERIOD OF RECORD, October 1953 to current year. GAGE, water-stage recorder. Datum of gage is sea level.
REMARKS.--Reservoir is formed by gravity nonover-flow type concrete dam. Spillway is equipped with five radial gates, each 35 ft high by 35 ft wide. Storage began Oct. 27, 1953; water in reservoir first reached minimum pool elevation Dec. 8, 1953. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,263 ft, top of gates, is 13,600 cfs-days, of which 2,200 cfs-days is controlled storage above elevation 1,258 ft, normal minimum pool. Reservoir is used for navigation, flood control and power.
COOPERATION.--Records furnished by Tennessee Valley Authority.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 14,000 cfs-days, Feb. 11, 1954, elevation, 1,263.80 ft, minimum after first filling, 2,690 cfs-days, Sept. 19, 1986, elevation, 1,226.33 ft.
EXTREMES FOR CURRENT YEAR.--Maximum contents, 13,600 cfs-days, Dec. 2, elevation, 1,263.09 ft; minimum, 11,400 cfs-days, Feb. 17, elevation, 1,257.92 ft.

03493500 CHEROKEE LAKE.--Lat 36°10'00", long 83°29'55", Jefferson County, Hydrologic Unit 06010104, at Cherokee Dam on Holston River, 0.3 mi upstream from bridge on State Highway 92, 2.7 mi upstream from Mill Spring Creek, 2.8 mi north of Jefferson City, and at mile 52.3. DRAINAGE AREA, 3,429 mi². PERIOD OF RECORD, December 1941 to current year. GAGE, water-stage recorder. Datum of gage is sea level.
REMARKS.--Reservoir is formed by concrete dam with riprapped earth embankments. Spillway equipped with nine radial gates, each 32 ft high by 40 ft wide. Storage began Dec. 5, 1941; water in reservoir first reached minimum pool elevation Jan. 6, 1942. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,075.0 ft, top of gates, is 778,400 cfs-days, of which 580,300 cfs-days is controlled storage above elevation 1,020.0 ft, normal minimum pool. Reservoir is used for navigation, flood control, and power.
COOPERATION.--Records furnished by Tennessee Valley Authority.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 779,400 cfs-days, May 11, 1944, maximum elevation, 1,074.47 ft May 30, 1973; minimum after first filling, 48,400 cfs-days, Jan. 7, 1954, elevation, 980.77 ft.
EXTREMES FOR CURRENT YEAR.--Maximum contents, 611,500 cfs-days, June 26, elevation, 1,063.33 ft; minimum, 231,000 cfs-days, Jan. 6, elevation, 1,025.05 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	03486800 BOONE LAKE			03487000 FORT PATRICK HENRY LAKE			03493500 CHEROKEE LAKE		
Sept. 30...	1,377.00	81,000	-	1,259.68	12,100	-	1,052.11	474,800	-
Oct. 31...	1,371.91	71,900	-9,100	1,261.24	12,800	+700	1,036.60	320,500	-154,300
Nov. 30...	1,365.88	62,100	-9,800	1,261.50	12,900	+100	1,029.24	261,000	-59,500
Dec. 31...	1,355.74	48,100	-14,000	1,260.54	12,500	-400	1,026.17	238,700	-22,300
CAL YR 1994	-	-	-4,500	-	-	+700	-	-	-47,300
Jan. 31...	1,357.24	50,000	+1,900	1,261.30	12,800	+300	1,030.30	269,100	+30,400
Feb. 28...	1,361.76	56,000	+6,000	1,262.14	13,200	+400	1,043.27	381,900	+112,800
Mar. 31...	1,372.67	73,200	+17,200	1,261.97	13,100	-100	1,049.24	443,200	+61,300
Apr. 30...	1,379.54	85,000	+12,800	1,261.44	12,900	-200	1,052.07	474,400	+31,200
May 31...	1,380.87	88,600	+2,600	1,261.31	12,800	-100	1,061.95	593,500	+119,100
June 30...	1,382.43	91,900	+3,300	1,262.12	13,200	+400	1,062.80	604,500	+11,000
July 31...	1,381.34	89,600	-2,300	1,261.61	13,000	-200	1,060.32	572,700	-31,800
Aug. 31...	1,381.05	89,000	-600	1,260.87	12,600	-400	1,049.74	448,600	-124,100
Sept. 30...	1,378.93	84,700	-4,300	1,261.73	13,000	+400	1,036.51	319,700	-128,900
WTR YR 1995	-	-	+3,700	-	-	+900	-	-	-155,100

RESERVOIRS IN TENNESSEE RIVER BASIN--Continued

03499500 FORT LOUDOUN LAKE.--Lat 35°47'30", long 84°14'35", Loudon County, Hydrologic Unit 06010201, at Fort Loudoun Dam on Tennessee River, 1 mi northeast of Lenoir City, and at mile 602.3. DRAINAGE AREA, 9,550 mi². PERIOD OF RECORD, July 1943 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir formed by concrete dam with earth embankment. Spillway equipped with 14 radial gates, each 32 ft high by 40 ft wide. Closure of dam was made Aug. 2, 1943; water in reservoir first reached ordinary minimum pool elevation Sept. 4, 1943. Revised capacity table put into use Jan. 19, 1980. Total level pool capacity at elevation 815.00 ft, top of gates, is 424,000 cfs-days, of which 120,000 cfs-days is controlled flood storage above elevation 807.00 ft, minimum navigation pool. Reservoir is used for navigation, flood control, and power. Tellico-Fort Loudoun canal was opened Jan. 19, 1980. Canal is 1,000 ft long, and interconnects Tellico and Fort Loudoun Lakes at the dam. Spillway gates of Tellico Dam were closed Feb. 7, 1980, diverting all flow from Little Tennessee River.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 815.14 ft, May 8, 1984; minimum after first filling, 805.54 ft, Jan. 18, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 184,000 cfs-days, Sept. 17; maximum elevation, 813.19 ft, May 29; minimum midnight contents, 147,400 cfs-days, Dec. 19, minimum elevation, 807.60 ft, Dec. 20. Contents based on backwater profile.

03519800 TELLICO LAKE.--Lat 35°46'53", long 84°15'10", Loudon County, Hydrologic Unit 06010201, at Tellico Dam on Little Tennessee River, 1.1 mi south of Lenoir City, and at mile 0.4. DRAINAGE AREA, 2,627 mi². PERIOD OF RECORD, December 1979 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir formed by concrete dam with earth embankment. Spillway equipped with 3 radial gates, each 42 ft high by 40 ft wide. Closure of dam was made Nov. 29, 1979; water in reservoir first reached ordinary minimum pool elevation Dec. 24, 1979. Total capacity at elevation 815.00 ft, top of gates, is 225,500 cfs-days, of which 63,800 cfs-days is controlled storage above elevation 807.00 ft, minimum navigation pool. Reservoir is used for navigation, flood control, and indirectly, power. Tellico-Fort Loudoun canal was opened Jan. 19, 1980. Canal is 1,000 ft long, and interconnects Tellico and Fort Loudoun Lakes at the dam. Spillway gates of Tellico Dam were closed Feb. 7, 1980, diverting all flow from Little Tennessee River.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 228,700 cfs-days, May 8, 1984, elevation, 815.37 ft; minimum after first filling, 155,400 cfs-days, Jan. 11, 1985, elevation, 807.31 ft; minimum elevation, 806.96 ft, Jan. 14, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 199,500 cfs-days, June 3, elevation, 813.24 ft; minimum, 157,800 cfs-days, Dec. 20, elevation, 807.66 ft.

03532500 NORRIS LAKE.--Lat 36°13'29", long 84°05'29", Anderson County, Hydrologic Unit 06010205, at Norris Dam on Clinch River, 2.5 mi northwest of Norris, and at mile 79.8. DRAINAGE AREA, 2,912 mi². PERIOD OF RECORD, June 1935 to current year. GAGE, water-stage recorder. Datum of stage is 0.11 ft above sea level. Gage readings have been reduced to sea level.

REMARKS.--Reservoir is formed by concrete gravity dam with three drum gates, each 100 ft wide by 14 ft high. Some storage began in June 1935; dam was completely closed and placed in operation Mar. 4, 1936; water in reservoir first reached minimum pool elevation Mar. 24, 1936. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,034.11 ft, top of gates, is 1,286,600 cfs-days, of which 969,000 cfs-days is controlled storage above elevation 960.11 ft normal minimum pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,236,700 cfs-days, Feb. 11, 1937, elevation, 1,031.21 ft; minimum after first filling, 75,500 cfs-days, Jan. 24, 1956, elevation, 909.46 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,011,900 cfs-days, June 7, elevation, 1019.13 ft; minimum, 440,400 cfs-days, Jan. 6, elevation, 974.85 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	*03499500 FORT LOUDOUN LAKE			03519800 TELLICO LAKE			03532500 NORRIS LAKE		
Sept. 30...	812.68	182,000	-	812.74	195,600	-	1,004.97	792,400	-
Oct. 31...	812.37	179,600	-2,400	812.40	193,000	-2,600	992.65	630,600	-161,800
Nov. 30...	809.24	156,500	-23,100	809.32	169,700	-23,300	980.02	490,600	-140,000
Dec. 31...	808.85	154,100	-2,400	808.92	166,800	-2,900	975.52	446,700	-43,900
CAL YR 1994	-	-	-1,000	-	-	0	-	-	-127,800
Jan. 31...	808.70	154,500	+400	808.82	166,100	-700	985.71	550,600	+103,900
Feb. 28...	808.78	154,500	0	808.90	166,700	+600	994.46	652,800	+102,200
Mar. 31...	808.94	154,800	+300	809.02	167,500	+800	1,005.30	797,000	+144,200
Apr. 30...	810.80	167,200	+12,400	810.90	181,400	+13,900	1,007.65	831,000	+34,000
May 31...	811.80	174,300	+7,100	811.89	189,000	+7,600	1,018.52	1,000,600	+169,600
June 30...	812.07	176,700	+2,400	812.13	190,800	+1,800	1,017.59	986,100	-14,500
July 31...	812.36	178,800	+2,100	812.45	193,300	+2,500	1,012.91	910,800	-75,300
Aug. 31...	812.17	177,700	-1,100	812.27	191,900	-1,400	1,007.65	831,000	-79,800
Sept. 30...	812.35	178,500	+800	812.41	193,000	+1,100	999.02	711,000	-120,000
WTR YR 1995	-	-	-3,500	-	-	-2,600	-	-	-81,400

* Contents based on backwater profile.

TENNESSEE RIVER BASIN

RESERVOIRS IN TENNESSEE RIVER BASIN--Continued

03535900 MELTON HILL LAKE.--Lat 35°53'04", long 84°18'01", Loudon-Roane County line, Hydrologic Unit 06010207, 9 mi southwest of Oak Ridge, 19 mi west of Knoxville, 57 mi downstream from Norris Dam on Clinch River, and at mile 23.1. DRAINAGE AREA, 3,343 mi². PERIOD OF RECORD, August 1962 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway is equipped with three radial gates, each 42 ft high by 40 ft wide. Dam completed and storage began May 1, 1963; water in reservoir first reached minimum pool elevation May 23, 1963. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 796 ft, top of gates, is 63,500 cfs-days, of which 16,100 cfs-days is controlled storage above elevation 790.0 ft, normal minimum pool. Reservoir is used for navigation, power, and recreation.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 64,900 cfs-days, Mar. 16, 1973, elevation, 796.45 ft; minimum after first filling, 35,100 cfs-days, Feb. 9, 1966, elevation, 784.10 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 60,600 cfs-days, Feb. 25, elevation, 795.02 ft; minimum, 46,400 cfs-days, Mar. 24, elevation, 789.53 ft.

03543000 WATTS BAR LAKE.--Lat 35°37'13", long 84°47'00", Rhea County, Hydrologic Unit 06010201, at Watts Bar Dam on Tennessee River, 6.5 mi southeast of Spring City, 72.4 mi downstream from Fort Loudoun Dam, and at mile 529.9. DRAINAGE AREA, 17,310 mi², approximately. PERIOD OF RECORD, October 1941 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete dam with riprapped earth embankments. Spillway equipped with 20 radial gates, each 32 ft high by 40 ft wide, also one 2-section leaf trashway gate 16.3 ft high by 24 ft wide. Storage began with partial closure Dec. 12, 1941, and final closure Jan. 1, 1942; water in reservoir first reached minimum navigation pool elevation Feb. 17, 1942. Revised capacity table put into use Jan. 1, 1971. Total level pool capacity at elevation 745.0 ft, top of gates, is 592,400 cfs-days, of which 191,000 cfs-days is controlled flood storage above elevation 735.0 ft, minimum navigation pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 745.40 ft, Mar. 17, 1973; minimum after first filling, 733.44 ft, Mar. 20, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 513,000 cfs-days, May 14; maximum elevation, 741.35 ft, May 20; minimum midnight contents, 410,000 cfs-days, Dec. 19; minimum elevation , 735.24 ft, Dec. 20. Contents based on backwater profile.

03564000 LAKE OCOEE.--Lat 35°05'40", long 84°38'53", Polk County, Hydrologic Unit 06020003, at Lake Ocoee Dam on Ocoee River at Parksville, 13.8 mi east of Cleveland, and at mile 11.9. DRAINAGE AREA, 595 mi². PERIOD OF RECORD, June 1914 to current year. Prior to October 1953, published as "Parksville (Ocoee No. 1) Reservoir," and October 1953 to September 1968, as "Parksville Lake." GAGE, nonrecording gage. Datum of gage is 6.89 ft above sea level. Gage readings have been reduced to sea level.

REMARKS.--Reservoir is formed by concrete dam with 347 ft of spillway. Spillway is equipped with four floodgates, each 6 ft high by 20 ft wide and 265 ft of flashboards about 5.7 ft high. Crest of spillway under gates is at elevation 830.82 ft; remainder of spillway is 1.0 ft higher. Dam completed and storage began in 1911. Capacity of reservoir has been considerably reduced by silting. Revised capacity table put into use Jan. 1, 1979. Total capacity at elevation 837.55 ft, about top of flashboards, is 42,300 cfs-days, of which 15,600 cfs-days is controlled storage above elevation 817.9 ft, normal minimum pool. Reservoir is used for power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum midnight contents observed, 53,300 cfs-days, July 9, 1916; maximum midnight elevation observed, 840.2 ft, Feb. 10, 1946; minimum contents observed, 27,300 cfs-days, Jan. 27, 1956, elevation, 817.7 ft; minimum midnight elevation observed, 814.8 ft, Dec. 14, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 43,100 cfs-days, Feb. 16, elevation, 838.8 ft; minimum 32,400 cfs-days, Jan. 6, elevation, 826.9 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	03535900 MELTON HILL LAKE			*03543000 WATTS BAR LAKE			03564000 LAKE OCOEE		
Sept. 30.	793.58	56,500	-	740.16	493,800	-	834.3	38,700	-
Oct. 31...	794.22	58,200	+1,700	739.83	487,700	-6,100	834.8	39,200	+500
Nov. 30...	793.07	55,100	-3,100	737.23	439,100	-48,600	832.4	37,000	-2,200
Dec. 31...	793.50	56,200	+1,100	736.24	422,000	-17,100	827.0	32,500	-4,500
CAL YR 1994	-	-	+800	-	-	+800	-	-	-600
Jan. 31...	794.17	58,100	+1,900	736.77	433,200	+11,200	828.3	33,500	+1,000
Feb. 28...	793.46	56,100	-2,000	736.41	427,000	-6,200	828.1	33,300	-200
Mar. 31...	793.69	56,800	+700	736.98	434,700	+7,700	828.8	33,900	+600
Apr. 30...	794.08	57,800	+1,000	739.40	478,400	+43,700	831.8	36,400	+2,500
May 31...	793.79	57,000	-800	741.13	511,800	+33,400	835.1	39,500	+3,100
June 30...	793.97	57,500	+500	740.04	491,000	-20,800	834.9	39,300	-200
July 31...	793.15	55,300	-2,200	740.20	494,600	+3,600	835.5	39,900	+600
Aug. 31...	793.38	55,900	+600	739.75	486,100	-8,500	835.0	39,400	-500
Sept. 30...	793.24	55,500	-400	740.53	500,700	+14,600	835.0	39,400	0
WTR YR 1995	-	-	-1,000	-	-	+6,900	-	-	+700

* Contents based on backwater profile.

TENNESSEE RIVER BASIN

RESERVOIRS IN TENNESSEE RIVER BASIN--Continued

03566500 CHICKAMAUGA LAKE.--Lat 35°06'07", long 85°13'42", Hamilton County, Hydrologic Unit 06020001, at Chickamauga Dam on Tennessee River, 5.8 mi northeast of Chattanooga, 58.9 mi downstream from Watts Bar Dam, and at mile 471.0. DRAINAGE AREA, 20,790 mi², approximately. PERIOD OF RECORD, October 1939 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete dam with riprapped earth embankments. Spillway equipped with eighteen 2-section lift gates, each 40.44 ft high by 40 ft wide. Storage began Feb. 6, 1940; water in reservoir first reached minimum navigation pool elevation Mar. 10, 1940. Revised capacity table put into use Jan. 1, 1971. Total level pool capacity at elevation 685.44 ft, top of gates, is 372,600 cfs-days, of which 175,000 cfs-days is controlled flood storage above elevation 675.0 ft, minimum navigation pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 686.19 ft, Mar. 29, 1994; minimum after first filling, 673.27 ft, Jan. 21, 1942.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 328,000 cfs-days, May 15; maximum elevation, 683.30 ft, May 16; minimum midnight contents, 206,900 cfs-days, Dec. 23; minimum elevation, 675.20 ft, Jan. 4. Contents based on backwater profile.

03570520 NICKAJACK LAKE.--Lat 35°00'07", long 85°37'14", Marion County, Hydrologic Unit 06020001, at Nickajack Dam on Tennessee River, 2 mi upstream from Sequatchie River, 5 mi south of Jasper, 46.3 mi downstream from Chickamauga Dam, and at mile 424.7. DRAINAGE AREA, 21,870 mi², approximately. PERIOD OF RECORD, December 1967 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete dam with earth embankments on each side. The spillway, with crest at elevation 595.0 ft, is equipped with 10 radial gates, each 40 ft high by 40 ft wide. A trash gate, 5.5 ft high by 15 ft wide, is located between the spillway and powerhouse. Dam was completed and storage began on Dec. 14, 1967. Revised capacity table put into use Jan. 1, 1971. Total level pool capacity at elevation 635.0 ft, top of gates, is 127,200 cfs-days, of which 16,200 cfs-days is controlled storage above elevation 632.0 ft, ordinary minimum. Reservoir is used for navigation and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 634.99 ft, Apr. 19, 1969; minimum after first filling, 630.82 ft, Feb. 20, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 129,300 cfs-days, Feb. 17; maximum elevation, 634.19 ft, Nov. 22; minimum midnight contents, 115,600 cfs-days, May 18; minimum elevation, 631.78 ft, Mar. 8. Contents based on backwater profile.

03579000 WOODS RESERVOIR.--Lat 35°17'54", long 86°05'48", Franklin County, Hydrologic Unit 06030003, at Elk River Dam on Elk River, 1.2 mi upstream from Spring Creek, 2.5 mi northeast of Estill Springs, 6.8 mi upstream from bridge on U.S. Highway 41-A, and at mile 170.0. DRAINAGE AREA, 263 mi². PERIOD OF RECORD, May 1952 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete gravity and earthfill-type dam with riprapped embankments. Spillway equipped with three radial gates, each 25 ft high by 50 ft wide, and two sluice gates, each 6 ft high by 4 ft wide. Closure of dam was made May 1, 1952; water in reservoir first reached minimum pool elevation Feb. 6, 1953. Total capacity at elevation 962.0 ft, surcharge pool, is 44,400 cfs-days, of which 9,900 cfs- days is controlled storage above elevation 957.0 ft, normal minimum pool. Reservoir is used for cooling water, flood control, and recreational purposes.

COOPERATION.--Twice-daily gage readings (0600 and 2400 hours) furnished by U.S. Air Force.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 42,300 cfs-days, April 21 and 22, 1956, elevation, 960.98 ft; minimum after first filling, 26,300 cfs-days, Nov. 8-11, 1953, elevation, 951.93 ft.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 39,800 cfs-days, July 29, elevation, 959.79 ft; minimum midnight contents, 36,200 cfs-days, Jan. 2, 3, elevation, 957.89 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	*03566500 CHICKAMAUGA LAKE			*03570520 NICKAJACK LAKE			03579000 WOODS RESERVOIR		
Sept. 30...	681.11	289,300	-	635.48	121,800	-	959.45	39,200	-
Oct. 31...	678.60	249,900	-39,400	633.68	122,900	+1,100	958.63	37,600	-1,600
Nov. 30...	678.22	244,000	-5,900	633.12	119,600	-3,300	958.04	36,500	-1,100
Dec. 31...	676.07	211,800	-32,200	633.90	120,900	+1,300	957.95	36,300	-200
CAL YR 1994	-	-	-15,400	-	-	+1,500	-	-	-200
Jan. 31...	676.07	218,800	+7,000	632.32	117,800	-3,100	958.01	36,400	+100
Feb. 28...	676.55	222,900	+4,100	633.75	124,100	+6,300	958.02	36,400	0
Mar. 31...	676.92	223,700	+800	633.12	116,700	-7,400	959.48	39,200	+2,800
Apr. 30...	679.55	263,600	+39,900	633.84	120,600	+3,900	959.48	39,200	0
May 31...	682.25	309,300	+45,700	632.95	116,100	-4,500	959.48	39,200	0
June 30...	682.40	315,700	+6,400	633.28	118,500	-12,400	959.44	39,200	0
July 31...	681.16	290,200	-25,500	633.77	121,100	+2,600	959.46	39,200	0
Aug. 31...	681.20	292,600	+2,400	633.38	120,100	-1,000	959.53	39,300	+100
Sept. 30...	681.37	296,200	+3,600	633.00	118,600	-1,500	959.51	39,300	0
WTR YR 1995	-	-	+6,900	-	-	-3,200	-	-	+100

* Contents based on backwater profile.

TENNESSEE RIVER BASIN

RESERVOIRS IN TENNESSEE RIVER BASIN--Continued

03580740 TIMS FORD LAKE.--Lat 35°11'51", long 86°16'41", Franklin County, Hydrologic Unit 06030003, in intake tower near left bank at Tims Ford Dam on Elk River, 0.4 mi upstream from bridge on State Highway 50, 9.5 mi west of Winchester, and at mile 133.4. DRAINAGE AREA, 529 mi². PERIOD OF RECORD, December 1970 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete dam with compacted rockfill impervious earth core embankments. Spillway equipped with three radial gates, each 42 ft high by 40 ft wide. Storage began Dec. 1, 1970; water in reservoir first reached minimum pool elevation Feb. 23, 1971, and first filling was completed June 3, 1971. Total capacity at elevation 895 ft, top of gates, is 306,500 cfs-days, of which 142,400 cfs-days is controlled storage above elevation 865 ft, normal minimum pool. Reservoir is used for flood control, power, and recreation.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 298,600 cfs-days, Dec. 23, 1990, elevation, 893.62 ft; minimum after first filling 154,000 cfs-days, Oct. 15, 1972, elevation, 862.24 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 255,200 cfs-days, July 9, elevation, 885.73 ft; minimum, 183,400 cfs-days, Jan. 5 elevation, 869.98 ft.

03593000 PICKWICK LAKE.--Lat 35°04'16", long 88°15'04", Hardin County, Hydrologic Unit 06040001, at Pickwick Landing Dam on Tennessee River, 1.5 mi north of town of Pickwick Dam, 6.1 mi upstream from Lick Creek, 52.7 mi downstream from Wilson Dam, and at mile 206.7. DRAINAGE AREA, 38,820 mi², approximately. PERIOD OF RECORD, October 1937 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete dam with riprapped earth embankments. Spillway equipped with twenty-two 2-section lift gates, each 40 ft high by 40 ft wide, one of which is used as a trash gate. Dam completed and storage began Feb. 8, 1938; water in reservoir first reached minimum pool elevation Feb. 18, 1938. Revised capacity table put into use Jan. 1, 1971. Total level pool capacity at elevation 418.0 ft, top of gates, is 557,100 cfs-days, of which 210,200 cfs-days is controlled flood storage above elevation 408.0 ft, minimum navigation pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 419.49 ft, Mar. 30, 1944; minimum after first filling, 407.12 ft, Dec. 18, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 576,900 cfs-days, April 21; maximum elevation, 414.55 ft, June 29; minimum midnight contents, 438,200 cfs-days, Jan. 28, minimum elevation, 408.09 ft, Jan. 28. Contents based on backwater profile.

03596460 NORMANDY LAKE.--Lat 35°27'55", long 86°14'55", Coffee County, Hydrologic Unit 06040002, at Normandy Dam on Duck River, 1.5 mi northeast of Normandy, 2.6 mi downstream from Riley Creek, 8 mi north of Tullahoma, and at mile 248.6. DRAINAGE AREA, 195 mi². PERIOD OF RECORD, January 1976 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete gravity dam with riprapped and rolled earthfill embankment on left side. Spillway is equipped with two radial gates, each 40 ft high by 36 ft wide. Storage began Jan. 5, 1976; water in reservoir first reached minimum pool elevation Mar. 22, 1976. Revised capacity table put into use Jan. 1, 1977. Total capacity at elevation 880 ft, top of gates, is 64,000 cfs-days, of which 30,400 cfs-days is controlled storage above elevation 859 ft, normal minimum pool. Reservoir is used for flood control, water supply, water-quality control, recreation, and shoreline development.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 63,800 cfs-days, Feb. 20, 1991, elevation, 880.12 ft; minimum after first filling, 26,800 cfs-days, Nov. 27, 1981, elevation, 853.12 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 58,100 cfs-days, May 10, elevation, 876.77 ft; minimum 39,800 cfs-days, Jan. 25, elevation, 864.43 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	03580740	TIMS FORD LAKE		*03593000	PICKWICK LAKE		03596460	NORMANDY LAKE	
Sept. 30...	885.38	253,400	-	411.32	496,900	-	872.86	52,000	-
Oct. 31...	882.88	240,800	-12,600	409.90	469,300	-27,600	872.16	50,900	-1,100
Nov. 30...	874.67	202,900	-37,900	409.88	468,100	-1,200	867.16	43,600	-7,300
Dec. 31...	870.45	185,300	-17,600	409.64	458,400	-9,700	864.48	40,000	-3,600
CAL YR 1994	-	-	-15,700	-	-	-11,000	-	-	-200
Jan. 31...	873.43	197,600	+12,300	408.74	446,000	-12,400	865.00	40,700	+700
Feb. 28...	876.34	210,200	+12,600	409.73	466,900	+20,900	865.43	41,300	+600
Mar. 31...	879.32	223,700	+13,500	411.90	510,400	+43,500	869.72	47,300	+6,000
Apr. 30...	882.57	239,200	+15,500	413.36	547,200	+36,800	873.68	53,200	+5,900
May 31...	884.78	250,300	+11,100	413.79	557,000	+9,800	875.29	55,800	+2,600
June 30...	885.28	252,900	+2,600	413.84	559,200	+2,200	873.87	53,500	-2,300
July 31...	885.08	251,800	-1,100	412.62	527,500	-31,700	872.35	51,200	-2,300
Aug. 31...	883.81	245,400	-6,400	411.70	505,200	-22,300	871.22	49,500	-1,700
Sept. 30...	884.52	249,000	+3,600	410.82	485,300	-19,900	869.74	47,300	-2,200
WTR YR 1995	-	-	-4,400	-	-	-11.600	-	-	-4,700

* Contents based on backwater profile.

RESERVOIRS IN TENNESSEE RIVER BASIN--Continued

03609000 KENTUCKY LAKE.--Lat 37°00'49", long 88°16'06", Marshall County, KY, Hydrologic Unit 06040006, at Kentucky Dam on Tennessee River at Gilbertsville, KY, and at mile 22.4. DRAINAGE AREA, 40,200 mi², approximately. PERIOD OF RECORD, July 1944 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete dam with 24 lift gates 50 ft high by 40 ft wide. Storage began Aug. 16, 1944, and final closure was Aug. 30, 1944. Water in reservoir reached minimum pool elevation Apr. 7, 1945. Revised capacity table put into use Jan. 1, 1971. Total level pool capacity at elevation 375.0 ft, top of gates, is 3,090,000 cfs-days, of which 2,020,700 cfs-days is controlled storage above 354.0 ft, ordinary minimum pool. Reservoir is used for navigation, flood control, and power. Barkley-Kentucky Canal opened July 13, 1966, for navigation and power use. Canal is 1.75 miles long and interconnects Lake Barkley and Kentucky Lake at a point 2.2 mi upstream from Barkley Dam. For daily discharges through the canal, see Kentucky reports.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 369.87 ft, May 24, 1983; minimum after first filling, 348.02 ft, Mar. 11, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 1,712,700 cfs-days, May 30; maximum elevation, 362.64 ft, May 30; minimum midnight contents, 1,084,300 cfs-days , Jan. 1, minimum elevation , 353.52 ft, Feb. 28.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	*03609000 KENTUCKY LAKE		
Sept. 30...	356.04	1,219,800	-
Oct. 31...	354.90	1,178,700	-41,100
Nov. 30...	355.89	1,258,400	+79,700
Dec. 31...	354.40	1,085,700	+172,700
CAL YR 1994	-	-	-66,200
Jan. 31...	354.50	1,146,600	+60,900
Feb. 28...	353.82	1,120,900	-25,700
Mar. 31...	354.75	1,111,200	-9,700
Apr. 30...	359.11	1,424,200	+313,000
May 31...	362.44	1,702,600	+278,400
June 30...	359.06	1,436,400	-266,200
July 31...	359.08	1,471,400	+35,000
Aug. 31...	357.46	1,316,600	-154,800
Sept. 30...	355.44	1,167,500	-149,100
WTR YR 1995	-	-	-52,300

* Contents based on backwater profile.

OTHER RESERVOIRS.--The following small reservoirs in the Tennessee River basin are described below, but records of contents are not published herein.

03466400 DAVY CROCKETT LAKE on Nolichucky River at Nolichucky Dam, with a total capacity of 1,300 cfs-days, none of which is controlled storage.

03517900 CALDERWOOD LAKE on Little Tennessee River at Calderwood, with a total capacity of 20,800 cfs-days of which 840 cfs-days is controlled storage.

03518200 CHILHOWEE LAKE on Little Tennessee River at Chilhowee Dam, with a total capacity of 24,800 cfs-days of which 3,400 cfs-days is controlled storage.

03562500 OCOEE NO. 3 LAKE on Ocoee River at Ocoee No. 3 Dam, 5.0 miles west of Ducktown, with a total capacity of 1,660 cfs-days, of which 1,550 cfs-days is controlled storage. Records of contents previous to 1971 water year published as Ocoee No. 3 Lake near Ducktown, TN.

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Map number	Station number	Station name	Page
178	07024200	CROOKED CREEK NEAR HUNTINGDON	262-264
179	07024225	NEIL DITCH NEAR HENRY	334
180	07024305	BEAVER CREEK AT HWY 22 BY-PASS	265-267,379
181	07024370	LITTLE REEDY CREEK NEAR HUNTINGDON	334
182	07025500	NORTH FORK OBION RIVER NEAR UNION CITY	334
183	07026040	OBION RIVER AT HWY 51 NEAR OBION	268-271
184	07027000	REELFOOT LAKE NEAR TIPTONVILLE	272-274
185	07028505	NORTH FORK FORKED DEER RIVER AT TRENTON	334
186	07029090	LEWIS CREEK NEAR DYERSBURG	334
187	07029500	HATCHIE RIVER AT BOLIVAR	276-279
188	07030100	CANE CREEK AT RIPLEY	335
189	07030207	COUNTY CLUB BRANCH NEAR SOMERVILLE	335
190	07030240	LOOSAHATCHIE RIVER NEAR ARLINGTON	280-281,380
191	07030241	EAST BEAVER CREEK AT TRITT FARM	299-302
192	07030242	EAST BEAVER CREEK AT WILLIAMS FARM	303-306
193	070302446	MIDDLE BEAVER CREEK AT HWY 14	307-308
194	07030246	MIDDLE BEAVER CREEK NEAR GAINSVILLE	309-311
195	070302481	WEST BEAVER CREEK AT MOFFATT FARM	312-317
196	07030249	MIDDLE BEAVER CREEK AT WILSON FARM	318-319
197	07030250	BEAVER CREEK CANAL NEAR ARLINGTON	282-283
198	07031650	WOLF RIVER AT GERMANTOWN	284-285,380
199	07032200	NONCONNAH CREEK NEAR GERMANTOWN	286-287

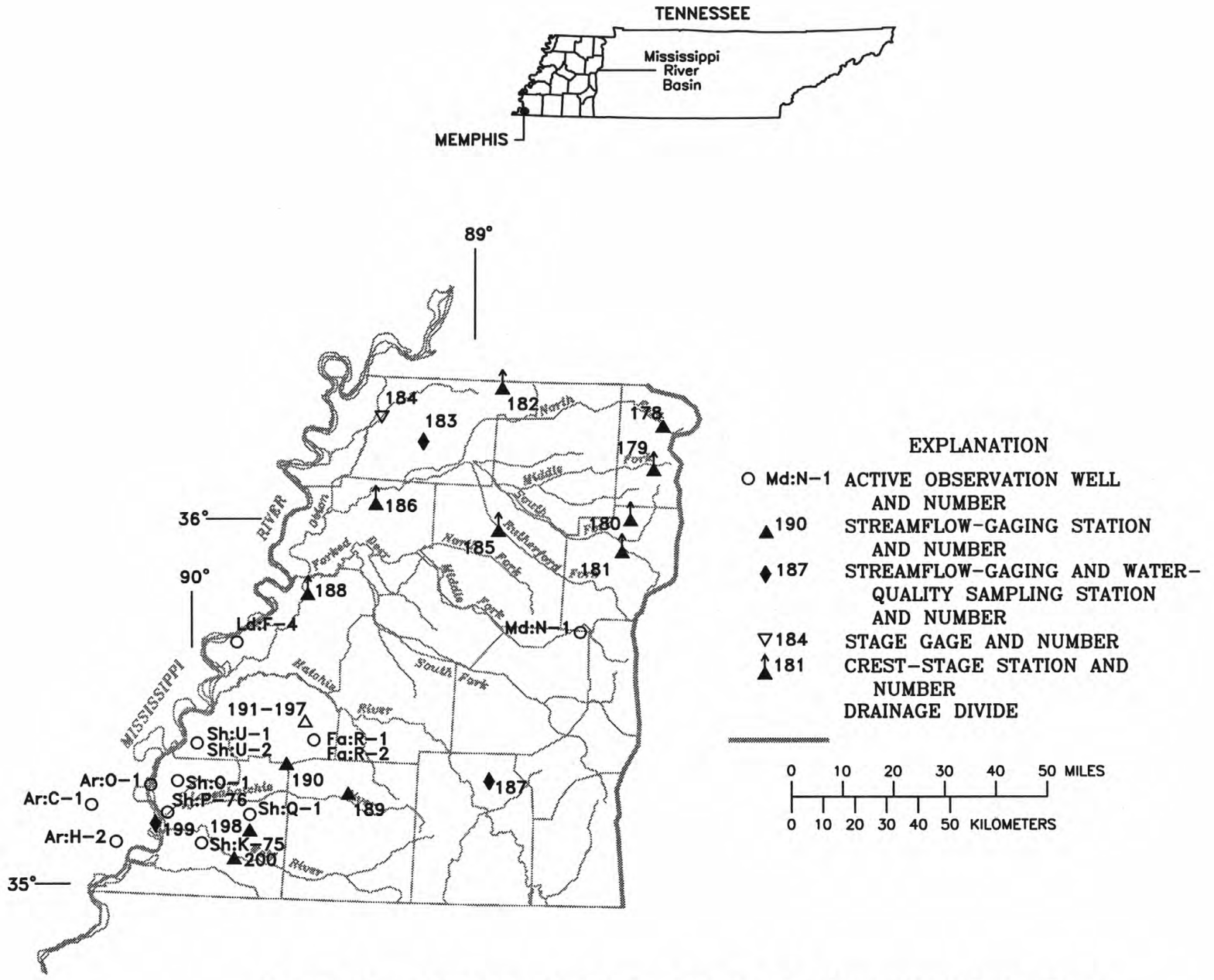


Figure 7.--Location of gaging sites in the Mississippi River Basin.

OBION RIVER BASIN

07024200 CROOKED CREEK AT HIGHWAY 22 NEAR HUNTINGDON, TN

LOCATION.--Lat 36°03'16", long 88°27'29", Carroll County, Hydrologic Unit 08010203, on right bank downstream side of bridge at U.S. Highway 22, 3.3 mi north of Huntingdon, 5.4 mi south of McKenzie.

DRAINAGE AREA.--89.8 mi².

PERIOD OF RECORD.--Miscellaneous water quality information available for Oct. 1960 and Oct. 1962. June 1994 to September 1995 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 360.00 ft above sea level, from Tennessee State Highway Department bench mark.

REMARKS.--Records good except for estimated daily discharges June 20, 1995 to July 1, 1995, which are fair.

EXTREMES FOR CURRENT PERIOD.--June 1993 to September 1995: Maximum discharge, 1410 ft³/s, at 0500 hours Aug. 6, 1995, gage height, 9.88 ft; minimum daily discharge, 20 ft³/s, Sept. 23, 1995.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR JUNE 1994 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	e49	34	31	26
2	---	---	---	---	---	---	---	---	e33	32	30	42
3	---	---	---	---	---	---	---	---	e36	31	30	27
4	---	---	---	---	---	---	---	---	e41	32	34	24
5	---	---	---	---	---	---	---	---	e44	31	327	26
6	---	---	---	---	---	---	---	---	e90	41	74	34
7	---	---	---	---	---	---	---	---	e170	38	41	28
8	---	---	---	---	---	---	---	---	e230	45	35	25
9	---	---	---	---	---	---	---	---	e310	64	33	24
10	---	---	---	---	---	---	---	---	235	50	31	25
11	---	---	---	---	---	---	---	---	117	39	31	26
12	---	---	---	---	---	---	---	---	72	38	29	27
13	---	---	---	---	---	---	---	---	59	37	28	27
14	---	---	---	---	---	---	---	---	52	52	29	28
15	---	---	---	---	---	---	---	---	46	50	84	29
16	---	---	---	---	---	---	---	---	42	45	31	29
17	---	---	---	---	---	---	---	---	120	42	29	32
18	---	---	---	---	---	---	---	---	55	35	29	32
19	---	---	---	---	---	---	---	---	45	33	28	30
20	---	---	---	---	---	---	---	---	46	31	45	29
21	---	---	---	---	---	---	---	---	44	45	289	29
22	---	---	---	---	---	---	---	---	44	40	47	29
23	---	---	---	---	---	---	---	---	42	33	28	35
24	---	---	---	---	---	---	---	---	40	30	25	36
25	---	---	---	---	---	---	---	---	44	29	24	49
26	---	---	---	---	---	---	---	---	55	33	23	35
27	---	---	---	---	---	---	---	---	294	39	23	31
28	---	---	---	---	---	---	---	---	63	32	22	29
29	---	---	---	---	---	---	---	---	43	29	22	28
30	---	---	---	---	---	---	---	---	37	29	23	27
31	---	---	---	---	---	---	---	---	---	29	23	---
TOTAL	---	---	---	---	---	---	---	---	2598	1168	1578	898
MEAN	---	---	---	---	---	---	---	---	86.6	37.7	50.9	29.9
MAX	---	---	---	---	---	---	---	---	310	64	327	49
MIN	---	---	---	---	---	---	---	---	33	29	22	24
CFSM	---	---	---	---	---	---	---	---	3.27	1.42	1.92	1.13
IN.	---	---	---	---	---	---	---	---	3.65	1.64	2.22	1.26

e Estimated

OBION RIVER BASIN

07024200 CROOKED CREEK AT HIGHWAY 22 NEAR HUNTINGDON, TN--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	26	96	50	137	73	52	338	52	e47	35	27
2	27	25	82	28	104	67	51	640	55	35	31	27
3	26	25	76	28	224	66	49	367	59	35	29	26
4	25	25	118	24	135	66	55	218	78	194	27	28
5	24	27	213	39	77	149	58	158	46	526	660	29
6	23	80	114	211	68	283	47	102	48	278	1210	28
7	23	40	92	803	71	455	51	81	575	99	862	26
8	23	31	80	493	68	783	51	71	260	64	770	26
9	32	31	99	232	60	538	45	61	106	52	1160	26
10	28	74	436	158	68	336	40	58	57	43	1050	26
11	24	42	740	144	72	243	43	53	48	35	692	26
12	60	34	371	158	59	186	46	47	70	32	445	25
13	167	32	189	120	58	147	38	46	51	29	314	24
14	45	31	140	483	60	114	34	51	40	27	139	24
15	31	30	117	529	640	150	32	264	36	31	90	24
16	28	35	126	282	803	99	30	186	32	28	77	44
17	26	41	389	194	588	88	32	77	30	30	96	84
18	27	34	181	156	410	71	34	171	29	48	70	37
19	63	32	109	488	239	63	29	569	28	27	57	30
20	41	29	85	530	176	62	255	278	e110	24	62	28
21	32	38	78	288	130	146	486	117	e86	28	50	28
22	41	44	143	196	104	76	252	71	e60	42	51	26
23	37	32	122	158	92	67	123	59	e54	40	42	19
24	31	29	81	116	83	56	173	48	e80	172	43	21
25	28	29	67	107	76	51	99	42	e75	326	36	23
26	27	30	50	101	76	49	76	41	e66	101	34	29
27	26	316	51	99	79	147	60	294	e61	392	32	31
28	26	623	48	179	81	125	52	246	e57	116	35	25
29	26	294	55	464	---	69	49	144	e600	77	30	24
30	25	135	50	299	---	60	80	62	e130	53	29	20
31	26	---	53	186	---	55	---	48	---	42	28	---
TOTAL	1096	2294	4651	7343	4838	4940	2522	5008	3079	3073	8286	861
MEAN	35.4	76.5	150	237	173	159	84.1	162	103	99.1	267	28.7
MAX	167	623	740	803	803	783	486	640	600	526	1210	84
MIN	23	25	48	24	58	49	29	41	28	24	27	19
CFSM	1.33	2.89	5.66	8.94	6.52	6.01	3.17	6.10	3.87	3.74	10.1	1.08
IN.	1.54	3.22	6.53	10.31	6.79	6.93	3.54	7.03	4.32	4.31	11.63	1.21

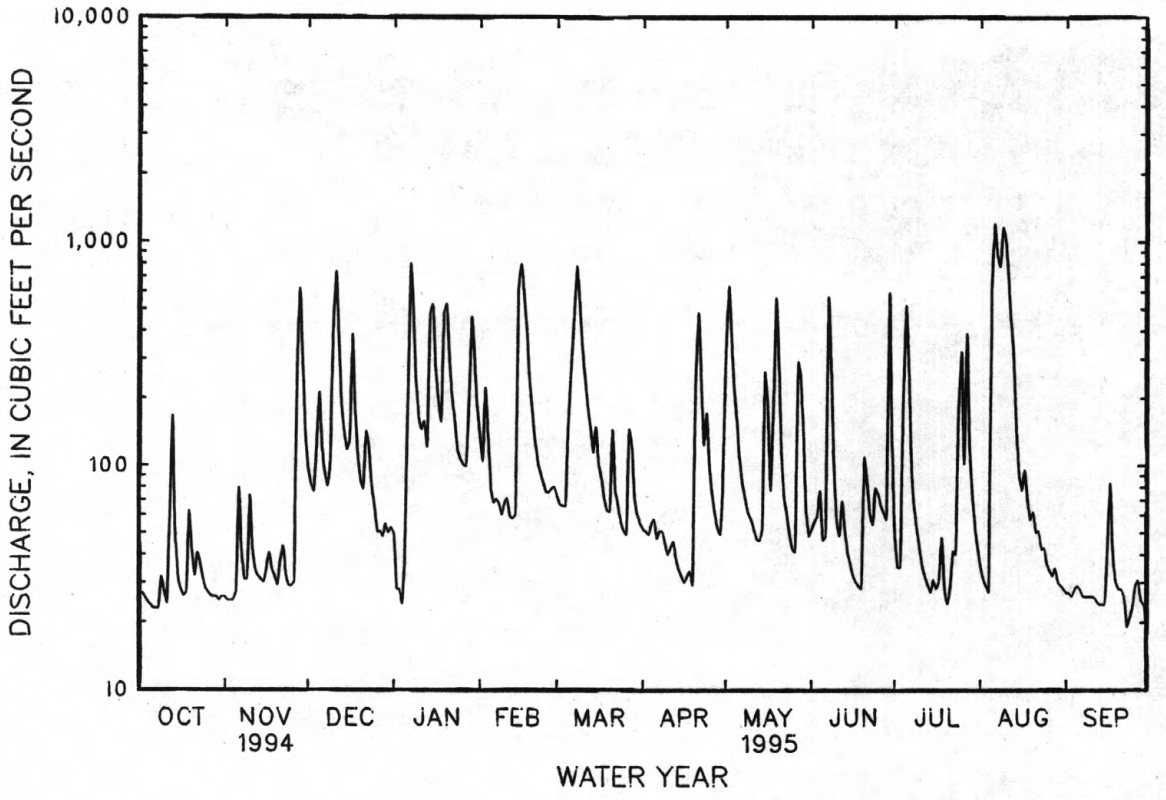
OBION RIVER BASIN

07024200 CROOKED CREEK AT HIGHWAY 22 NEAR HUNTINGDON, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	35.4	76.5	150	237	173	159	84.1	162	94.6	68.4	159	29.3
MAX	35.4	76.5	150	237	173	159	84.1	162	103	99.1	267	29.9
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1994
MIN	35.4	76.5	150	237	173	159	84.1	162	86.6	37.7	50.9	28.7
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1994 - 1995	
ANNUAL TOTAL	14283		47991			
ANNUAL MEAN	66.7		131		111	
HIGHEST ANNUAL MEAN					131	1995
LOWEST ANNUAL MEAN					51.2	1994
HIGHEST DAILY MEAN	740	Dec 11	1210	Aug 6	1210	Aug 6 1995
LOWEST DAILY MEAN	22	Aug 28	19	Sep 23	19	Sep 23 1995
ANNUAL SEVEN-DAY MINIMUM	23	Aug 25	24	Oct 2	23	Aug 25 1994
ANNUAL RUNOFF (CFSM)	2.52		4.96		4.20	
ANNUAL RUNOFF (INCHES)	20.05		67.37		57.10	
10 PERCENT EXCEEDS	130		337		284	
50 PERCENT EXCEEDS	35		60		49	
90 PERCENT EXCEEDS	25		27		26	



OBION RIVER BASIN

07024305 BEAVER CREEK AT HIGHWAY 22 BYPASS NEAR HUNTINGDON, TN

LOCATION.--Lat 36°00'47", long 88°26'42", Carroll County, Hydrologic Unit 08010203, on the left bank upstream side of the main channel bridge on Highway 22 Bypass, .8 mi northwest of Huntingdon, 3 mi upstream of Crooked Creek, and at mile 4.5.

DRAINAGE AREA.--58.6 mi².

PERIOD OF RECORD.--June 1994 to September 1995.

GAGE.--Water-stage recorder, data logger and crest-stage gage. Datum of gage is 350 ft above sea level, from topographic map. Prior to June 1994 water-stage recorder at site 1.0 mi upstream at datum 14.2 higher.

REMARKS.--No estimated discharge. Records fair. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT PERIOD.--June 1994 to September 1995: Maximum discharge 513 ft³/s, Aug. 11, 1995, gage height, 17.93 ft; minimum daily discharge, 31 ft³/s, Sept. 4, 5, 1995.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR JUNE 1994 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	e64	48	40	36
2	---	---	---	---	---	---	---	---	e56	45	40	68
3	---	---	---	---	---	---	---	---	e50	42	40	44
4	---	---	---	---	---	---	---	---	e70	41	39	38
5	---	---	---	---	---	---	---	---	83	40	152	39
6	---	---	---	---	---	---	---	---	331	41	70	48
7	---	---	---	---	---	---	---	---	408	44	47	49
8	---	---	---	---	---	---	---	---	264	44	41	37
9	---	---	---	---	---	---	---	---	143	97	39	35
10	---	---	---	---	---	---	---	---	127	238	38	34
11	---	---	---	---	---	---	---	---	89	119	38	34
12	---	---	---	---	---	---	---	---	69	74	38	33
13	---	---	---	---	---	---	---	---	59	73	36	34
14	---	---	---	---	---	---	---	---	55	54	48	33
15	---	---	---	---	---	---	---	---	53	148	76	33
16	---	---	---	---	---	---	---	---	61	248	43	33
17	---	---	---	---	---	---	---	---	54	178	39	35
18	---	---	---	---	---	---	---	---	46	82	38	36
19	---	---	---	---	---	---	---	---	42	64	37	34
20	---	---	---	---	---	---	---	---	41	53	36	33
21	---	---	---	---	---	---	---	---	42	68	50	33
22	---	---	---	---	---	---	---	---	39	227	38	33
23	---	---	---	---	---	---	---	---	40	144	36	39
24	---	---	---	---	---	---	---	---	40	70	35	40
25	---	---	---	---	---	---	---	---	42	55	34	38
26	---	---	---	---	---	---	---	---	62	63	34	36
27	---	---	---	---	---	---	---	---	247	91	33	37
28	---	---	---	---	---	---	---	---	111	65	33	35
29	---	---	---	---	---	---	---	---	65	50	33	34
30	---	---	---	---	---	---	---	---	52	46	34	33
31	---	---	---	---	---	---	---	---	---	42	36	---
TOTAL	---	---	---	---	---	---	---	---	2905	2694	1371	1124
MEAN	---	---	---	---	---	---	---	---	96.8	86.9	44.2	37.5
MAX	---	---	---	---	---	---	---	---	408	248	152	68
MIN	---	---	---	---	---	---	---	---	39	40	33	33
CFSM	---	---	---	---	---	---	---	---	1.65	1.48	.75	.64
IN.	---	---	---	---	---	---	---	---	1.84	1.71	.87	.71

e Estimated

OBION RIVER BASIN

07024305 BEAVER CREEK AT HIGHWAY 22 BYPASS NEAR HUNTINGDON, TN--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	49	72	51	84	53	54	151	45	301	37	32
2	33	49	65	48	74	49	51	163	86	82	36	33
3	34	46	61	52	66	47	49	74	73	57	35	33
4	36	45	81	60	65	46	47	65	65	170	35	31
5	36	47	113	50	60	90	45	69	44	247	210	31
6	37	73	77	147	53	169	44	54	44	152	323	32
7	38	47	69	384	56	253	42	49	62	73	292	32
8	40	42	63	369	56	383	42	46	45	54	294	33
9	50	47	75	152	50	389	41	44	39	48	439	33
10	48	93	265	88	54	167	40	43	38	44	490	33
11	43	66	435	78	57	95	42	39	40	41	491	33
12	54	56	412	76	49	82	55	39	52	39	286	33
13	128	52	153	71	46	75	44	39	40	38	85	34
14	66	50	85	212	50	72	42	39	36	37	55	34
15	52	52	73	217	293	70	40	62	34	36	45	33
16	47	59	78	115	397	68	39	50	33	36	40	56
17	46	60	209	81	320	65	49	42	33	40	36	90
18	47	53	154	73	138	62	56	159	32	55	35	43
19	68	49	86	249	87	61	45	403	32	39	34	39
20	58	47	72	299	73	61	159	375	115	36	42	38
21	55	82	66	177	66	74	234	109	65	42	39	38
22	52	82	135	95	59	65	131	61	41	49	38	37
23	54	57	145	77	56	62	76	49	36	48	34	37
24	49	51	87	67	53	56	76	44	49	107	33	36
25	48	49	71	64	49	53	60	41	39	163	33	36
26	47	49	64	60	49	52	50	40	42	84	33	47
27	47	215	60	60	54	164	46	115	37	132	33	44
28	47	361	57	92	63	320	44	101	35	61	32	39
29	46	262	55	283	---	217	42	74	35	49	32	38
30	45	108	53	245	---	82	57	46	352	42	32	38
31	47	---	53	118	---	61	---	41	---	38	32	---
TOTAL	1531	2398	3544	4210	2577	3563	1842	2726	1719	2440	3711	1146
MEAN	49.4	79.9	114	136	92.0	115	61.4	87.9	57.3	78.7	120	38.2
MAX	128	361	435	384	397	389	234	403	352	301	491	90
MIN	33	42	53	48	46	46	39	39	32	36	32	31
CFSM	.84	1.36	1.95	2.32	1.57	1.96	1.05	1.50	.98	1.34	2.04	.65
IN.	.97	1.52	2.25	2.67	1.64	2.26	1.17	1.73	1.09	1.55	2.36	.73

OBION RIVER BASIN

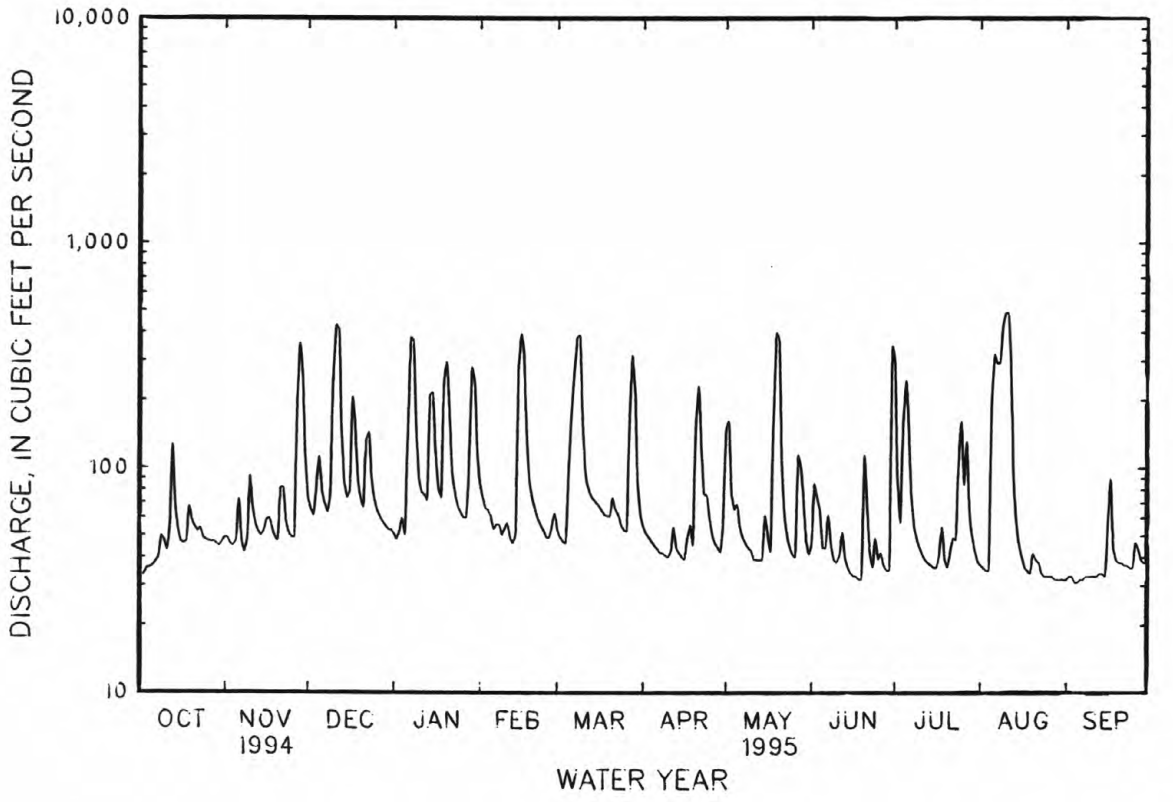
07024305 BEAVER CREEK AT HIGHWAY 22 BYPASS NEAR HUNTINGDON, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	49.4	79.9	114	136	92.0	115	61.4	87.9	77.1	82.8	82.0	37.8
MAX	49.4	79.9	114	136	92.0	115	61.4	87.9	96.8	86.9	120	38.2
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1994	1994	1995	1995
MIN	49.4	79.9	114	136	92.0	115	61.4	87.9	57.3	78.7	44.2	37.5
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1994	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1994 - 1995		
ANNUAL TOTAL	15567		31407				
ANNUAL MEAN	72.7		86.0		81.1		
HIGHEST ANNUAL MEAN					86.0		1995
LOWEST ANNUAL MEAN					66.3		1994
HIGHEST DAILY MEAN	435	Dec 11	491	Aug 11	491	Aug 11	1995
LOWEST DAILY MEAN	33	Aug 27	a31	Sep 4	a31	Sep 4	1995
ANNUAL SEVEN-DAY MINIMUM	33	Sep 10	32	Aug 30	32	Aug 30	1995
ANNUAL RUNOFF (CFSM)	1.24		1.47		1.38		
ANNUAL RUNOFF (INCHES)	9.88		19.94		18.81		
10 PERCENT EXCEEDS	143		209		167		
50 PERCENT EXCEEDS	49		53		50		
90 PERCENT EXCEEDS	34		35		34		

a Also occurred Sept. 5.



OBION RIVER BASIN

07026040 OBION RIVER AT U.S. HIGHWAY 51 NEAR OBION, TN
(National stream-quality accounting network station)

LOCATION.--Lat 36°14'27", long 89°13'03", Obion County, Hydrologic Unit 08010202, on right downstream bank, at end of main channel bridge on U.S. Highway 51, 3.2 mi northeast of Trimble, 2.0 mi southwest of Obion and 1.6 river miles downstream of the former gage location, Obion River at Obion.

DRAINAGE AREA.--1,875 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1929 to September 1958, October 1966 to September 1995 (discontinued). Gage height and discharge records at this site from 1964 to 1975 are in reports of U.S. Army Corps of Engineers. Prior to Oct. 1990 published as "at Obion".

REVISED RECORD.--WSP 1211: 1930, 1943. WSP 2120: Drainage area.

GAGE.--Data collection platform. Datum of gage is 245.17 ft above sea level. Prior to Oct. 1990 water-stage recorder at site 1.6 mi upstream at a datum 1.31 ft higher (levels by the U.S. Army Corps of Engineers). Prior to Oct. 1, 1932, nonrecording gage at site 1.6 mi upstream at datum 6.31 ft higher; Oct. 1, 1932, to Aug. 2, 1939, nonrecording gage, and Aug. 3, 1939, to Sept. 1958, water-stage recorder at site 1.6 mi upstream at datum 16.31 ft higher.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 99,500 ft³/s, Jan 24, 1937 gage height, 40.4 ft present datum; minimum under conditions of no backwater, 230 ft³/s, Oct. 7-9, 1943, minimum daily discharge, 15 ft³/s, backwater from Mississippi River, Feb. 4, 1937, reverse flow of 57 ft³/s, measured by current meter on that date.

REMARKS.--Records poor.

COOPERATION.--Fifteen discharge measurements furnished by the U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,900 ft³/s, Aug. 9, gage height 31.51 ft; minimum daily discharge, 625 ft³/s, Oct. 1, 2.

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	e625	e720	1970	1190	2040	1460	1240	6940	1790	1380	923	742
2	e625	e700	1570	1170	1860	1420	1170	9730	1650	1110	872	718
3	e630	e690	1340	1180	1650	1360	1120	8890	1550	1070	828	697
4	e635	e700	1230	1130	1530	1340	1080	6340	1530	2680	813	690
5	640	e710	1220	1090	1450	1690	1040	3480	1390	1910	6350	682
6	635	e720	1220	1560	1390	2580	1020	2300	1430	2040	10800	675
7	628	e900	e1110	1690	1410	2600	994	1850	4470	1430	11400	670
8	639	e800	e1040	4200	1390	3070	979	1620	2580	1560	11300	664
9	690	e780	e980	3430	1330	4190	964	1540	1730	1690	11900	657
10	713	e725	e1130	2790	1320	3360	953	1390	1320	1170	12600	659
11	694	e680	e1430	2690	1380	2660	941	1260	1300	1020	12300	664
12	676	e675	e1410	2450	1360	2320	942	1170	1330	952	11300	663
13	1470	e700	e1380	2070	1260	e3000	937	1090	1080	900	9220	648
14	1460	e720	e2100	3650	1320	e5650	906	1520	934	863	6160	646
15	e1300	e710	e3000	2420	7300	e3500	892	2560	849	863	3450	636
16	e1000	e700	e2820	2680	2560	e2800	883	2420	809	843	2240	843
17	e960	e740	e2740	2430	4590	e2370	892	1510	779	843	1800	994
18	e940	e735	e2040	3350	5490	1420	964	4560	750	1490	1540	808
19	e910	e740	e1150	3890	4430	1330	957	10300	730	854	1320	714
20	902	e760	e1080	4670	3200	1280	3500	8260	731	787	1350	680
21	893	1160	e1110	1990	2650	1400	9010	4220	1720	887	1350	671
22	892	1280	e1320	2390	2130	1330	5180	2460	1320	878	1060	662
23	841	1060	e1410	1960	2050	1290	2210	2030	839	876	993	649
24	817	954	e1520	1840	1850	1270	1950	1800	898	2490	946	636
25	810	916	1780	1790	1660	1150	1660	1670	2440	2170	915	634
26	794	885	1520	1710	1570	1170	1380	1640	1850	1490	890	641
27	788	933	1460	1680	1550	1320	1220	3390	1220	1440	866	653
28	e720	1530	1370	1830	1530	2580	1120	3430	737	1730	842	645
29	e715	6450	e1200	2640	---	2010	1050	3590	1410	3240	823	637
30	e700	e4100	e1160	2060	---	1450	1690	2350	2970	1240	799	628
31	e710	---	1220	1980	---	1370	---	1920	---	1020	766	---
TOTAL	25452	33873	47030	71600	63250	65740	48844	107230	44136	42916	128716	20606
MEAN	821	1129	1517	2310	2259	2121	1628	3459	1471	1384	4152	687
MAX	1470	6450	3000	4670	7300	5650	9010	10300	4470	3240	12600	994
MIN	625	675	980	1090	1260	1150	883	1090	730	787	766	628
CFSM	.44	.60	.81	1.23	1.20	1.13	.87	1.84	.78	.74	2.21	.37
IN.	.50	.67	.93	1.42	1.25	1.30	.97	2.13	.88	.85	2.55	.41

e Estimated

OBION RIVER BASIN

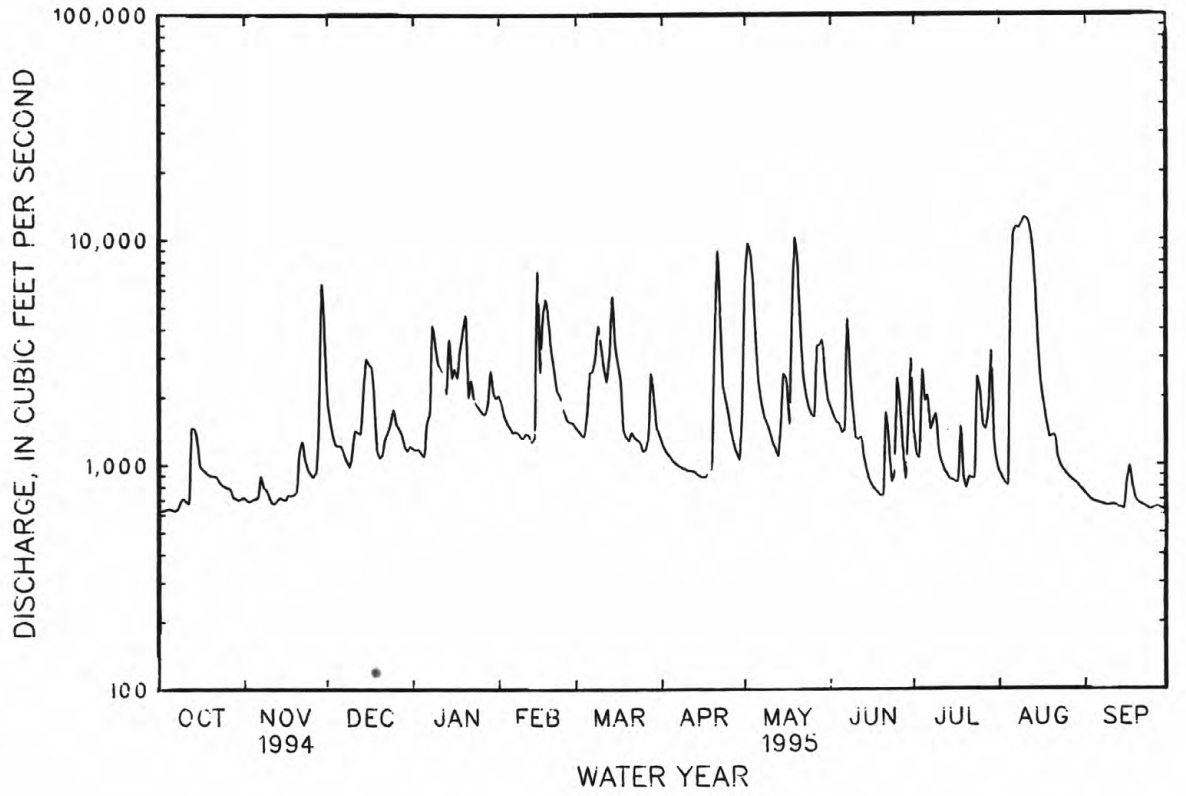
07026040 OBION RIVER AT U.S. HIGHWAY 51 NEAR OBION, TN--Continued
(National stream-quality accounting network station)

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

MEAN	926	2080	3420	4825	4919	4410	3911	2919	1906	1422	1045	930
MAX	3576	15500	14260	26640	17120	15810	11770	15540	10970	4783	6643	5041
(WY)	1991	1958	1991	1937	1990	1975	1973	1983	1970	1975	1971	1950
MIN	249	372	495	587	543	628	678	487	323	301	277	264
(WY)	1944	1955	1944	1944	1941	1941	1941	1936	1936	1944	1936	1956

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1929 - 1995	
ANNUAL TOTAL	978305		699393			
ANNUAL MEAN	2680		1916		2715	
HIGHEST ANNUAL MEAN					5351	1973
LOWEST ANNUAL MEAN					569	1941
HIGHEST DAILY MEAN	16600	Mar 29	12600	Aug 10	b99500	Jan 24 1937
LOWEST DAILY MEAN	595	Sep 23	a625	Oct 1	15	Feb 4 1937
ANNUAL SEVEN-DAY MINIMUM	602	Sep 18	631	Oct 1	233	Oct 6 1943
INSTANTANEOUS PEAK FLOW			12900	Aug 9	b99500	Jan 24 1937
INSTANTANEOUS PEAK STAGE			31.51	Aug 9	b40.40	Jan 24 1937
INSTANTANEOUS LOW FLOW			613	Oct 7	b230	Oct 7 1943
ANNUAL RUNOFF (CFSM)	1.43		1.02		1.45	
ANNUAL RUNOFF (INCHES)	19.41		13.88		19.67	
10 PERCENT EXCEEDS	7550		3490		7000	
50 PERCENT EXCEEDS	1300		1320		1020	
90 PERCENT EXCEEDS	681		692		411	

a Also occurred Oct. 2.
b See EXTREMES FOR PERIOD OF RECORD.



OBION RIVER BASIN

07026040 - OBION RIVER AT HWY 51 NEAR OBION, TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to September 1995 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1975 to September 1981.
WATER TEMPERATURE: June 1975 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum 488 microsiemens, Dec. 14, 1976; minimum, 35 microsiemens, July 21 and 22, 1975.
WATER TEMPERATURE: Maximum, 33.5°C, June 18, 1978; minimum, -0.5°C, several days in January and February 1979.

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

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	BAROMETRIC PRESSURE (MM OF HG)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
NOV												
30...	1420	80020	2750	73	75	6.1	6.6	9.0	780	67	10.6	90
APR												
13...	1100	80020	916	94	95	7.3	7.4	16.5	745	8.2	9.4	98
AUG												
02...	1400	80020	862	92	91	7.4	7.3	29.5	760	22	7.2	95

DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKALINITY LAB (MG/L AS CACO3)
NOV												
30...	1400	980	17	0	4.3	1.6	3.5	24	0.4	5.2	18	16
APR												
13...	62	K12	28	0	6.9	2.7	6.5	32	0.5	1.4	34	34
AUG												
02...	590	180	25	0	6.5	2.2	5.5	30	0.5	2.0	33	32

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
NOV											
30...	5.2	5.5	<0.10	8.6	69	46	0.09	419	<0.010	0.380	0.380
APR											
13...	3.3	5.1	<0.10	9.8	62	58	0.08	148	<0.010	0.340	0.340
AUG											
02...	2.9	5.1	<0.10	13	68	60	0.09	156	<0.010	0.330	0.330

K--Results based on non-ideal colony count.

OBION RIVER BASIN

07026040 - OBION RIVER AT HWY 51 NEAR OBION, TN--Continued

WATER-QUALITY RECORDS

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

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	BARIUM, DISSOLVED (UG/L AS BA)	COBALT, DISSOLVED (UG/L AS CO)	IRON, DISSOLVED (UG/L AS FE)
NOV 30...	0.10	0.080	0.80	0.300	0.100	0.28	0.090	90	35	<3	300
APR 13...	0.04	0.030	0.30	0.090	0.030	0.12	0.040	80	27	<3	370
AUG 02...	--	<0.015	0.30	0.170	0.100	0.31	0.100	60	27	7	1200

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 30...	<4	300	<10	2	<1	<1.0	26	<6	186	1130	83
APR 13...	<4	94	10	1	<1	<1.0	47	<6	34	81	92
AUG 02...	<4	47	<10	<1	<1	<1.0	42	<6	77	177	94

OBION RIVER BASIN

07027000 REELFOOT LAKE NEAR TIPTONVILLE, TN

LOCATION.--Lat 36°21'09", long 89°25'07", Lake County, Hydrologic Unit 08010202, at Middle Landing in Reelfoot Lake State Park, 0.4 mi east of Blue Bank, 0.8 mi west of the spillway, and 3.3 mi southeast of Tiptonville.

DRAINAGE AREA.--240 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 270.22 ft above sea level.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 15.65 ft, from recorded range in stage, about Apr. 26, 1973; minimum, 9.59 ft, July 6, 7, 8, 1985.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1937 reached a stage of about 17.0 ft, at spillway, present datum, from information by local resident. Minimum stage at spillway, 9.30 ft, Nov. 20, 21, 1953 at a datum of 270.29 ft above mean sea level.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 13.11 ft, Jan. 20, 21; minimum 11.15 ft, Nov. 20.

GAGE HEIGHT, FEET, 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	---	---	e11.44	11.30	11.21	11.29	11.41	11.39	11.40	12.42	12.27	12.33
2	---	---	e11.43	11.29	11.22	11.26	11.39	11.38	11.39	12.38	12.28	12.30
3	---	---	e11.42	11.26	11.21	11.24	11.41	11.39	11.40	12.38	12.29	12.31
4	---	---	e11.41	11.32	11.22	11.26	11.45	11.41	11.43	12.41	12.29	12.35
5	11.41	11.39	11.40	11.33	11.18	11.26	11.44	11.43	11.44	12.33	12.26	12.30
6	11.39	11.36	11.37	11.36	11.27	11.31	11.44	11.35	11.42	12.39	12.26	12.34
7	11.36	11.32	11.34	11.36	11.31	11.33	11.49	11.35	11.42	12.46	12.37	12.41
8	11.48	11.28	11.34	11.31	11.27	11.29	11.49	11.42	11.45	12.45	12.42	12.43
9	11.48	11.36	11.41	11.43	11.24	11.29	11.69	11.45	11.59	12.49	12.45	12.47
10	11.45	11.37	11.41	11.40	11.33	11.37	11.88	11.68	11.78	12.48	12.45	12.47
11	11.43	11.35	11.39	11.37	11.31	11.33	11.94	11.72	11.86	12.47	12.42	12.45
12	11.45	11.36	11.39	11.32	11.30	11.31	11.98	11.90	11.94	12.45	12.33	12.41
13	11.43	11.39	11.41	11.30	11.29	11.29	12.07	11.98	12.02	12.53	12.44	12.47
14	11.43	11.39	11.41	11.32	11.29	11.30	12.08	12.04	12.06	12.68	12.53	12.59
15	11.42	11.38	11.40	11.42	11.30	11.35	12.10	12.07	12.08	12.67	12.54	12.60
16	11.40	11.37	11.39	11.41	11.33	11.36	12.14	12.08	12.11	12.58	12.55	12.56
17	11.38	11.36	11.37	11.33	11.29	11.32	12.16	12.14	12.14	12.61	12.53	12.56
18	11.38	11.34	11.36	11.32	11.29	11.31	12.22	12.11	12.17	12.80	12.61	12.69
19	11.38	11.34	11.36	11.35	11.31	11.32	12.19	12.16	12.17	12.88	12.65	12.76
20	11.40	11.37	11.38	11.34	11.15	11.26	12.17	12.14	12.16	13.11	12.85	12.98
21	11.44	11.37	11.39	11.37	11.24	11.31	12.21	12.15	12.17	13.11	13.02	13.05
22	11.42	11.40	11.40	11.41	11.32	11.38	12.30	12.21	12.26	13.05	13.03	13.04
23	11.43	11.37	11.40	11.39	11.33	11.35	12.40	12.24	12.31	13.10	13.03	13.06
24	11.44	11.34	11.38	11.33	11.28	11.31	12.41	12.31	12.36	13.05	13.00	13.02
25	11.41	11.35	11.38	11.33	11.29	11.31	12.39	12.28	12.33	13.10	12.99	13.02
26	11.39	11.36	11.37	11.35	11.32	11.33	12.33	12.31	12.31	13.09	12.97	13.02
27	11.36	11.35	11.35	11.39	11.22	11.32	12.32	12.30	12.31	12.97	12.92	12.93
28	11.35	11.29	11.33	11.38	11.32	11.35	12.32	12.30	12.31	12.98	12.67	12.89
29	11.33	11.31	11.32	11.42	11.38	11.40	12.41	12.29	12.36	---	---	e12.86
30	11.33	11.32	11.32	11.43	11.38	11.41	12.36	12.31	12.33	---	---	e12.83
31	11.39	11.21	11.30	---	---	---	12.31	12.29	12.30	---	---	e12.80
MONTH	11.48	11.21	11.38	11.43	11.15	11.32	12.41	11.35	11.96	13.11	11.74	12.65

e Estimated

OBION RIVER BASIN

07027000 REELFOOT LAKE NEAR TIPTONVILLE, TN--Continued

GAGE HEIGHT, FEET, 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	12.80	12.76	12.77	12.91	12.69	12.83	12.43	12.35	12.38	12.79	12.48	12.65
2	12.82	12.77	12.79	12.88	12.72	12.78	12.39	12.35	12.37	12.72	12.66	12.70
3	12.81	12.69	12.76	12.79	12.68	12.71	12.36	12.22	12.31	12.73	12.70	12.71
4	12.86	12.71	12.76	12.70	12.65	12.67	12.46	12.32	12.38	12.74	12.69	12.71
5	12.85	12.67	12.77	12.73	12.65	12.69	12.41	12.32	12.36	12.74	12.67	12.70
6	12.78	12.66	12.70	12.75	12.62	12.71	12.34	12.30	12.32	12.67	12.60	12.64
7	12.77	12.58	12.67	12.92	12.62	12.75	12.31	12.23	12.29	12.62	12.55	12.59
8	12.76	12.63	12.68	12.93	12.72	12.81	12.27	12.16	12.23	12.55	12.45	12.51
9	12.63	12.56	12.60	12.85	12.71	12.74	12.25	12.16	12.21	12.47	12.41	12.45
10	12.68	12.57	12.61	12.71	12.68	12.69	12.25	12.19	12.23	12.51	12.43	12.46
11	12.70	12.57	12.64	12.69	12.63	12.67	12.27	12.16	12.23	12.51	12.46	12.49
12	12.76	12.57	12.64	12.66	12.62	12.64	12.24	12.03	12.18	12.49	12.46	12.48
13	12.60	12.57	12.58	12.65	12.59	12.64	12.31	12.17	12.23	12.48	12.45	12.47
14	12.65	12.55	12.58	12.66	12.63	12.65	12.23	12.19	12.22	12.53	12.36	12.51
15	12.82	12.63	12.70	12.66	12.63	12.65	12.21	12.14	12.19	12.57	12.52	12.54
16	12.97	12.77	12.87	12.65	12.62	12.63	12.20	12.14	12.18	12.53	12.45	12.49
17	12.98	12.92	12.95	12.65	12.60	12.62	12.21	12.14	12.17	12.48	12.38	12.44
18	12.98	12.96	12.97	12.61	12.53	12.59	12.17	11.97	12.09	12.50	12.32	12.40
19	12.99	12.96	12.98	12.58	12.50	12.53	12.28	12.09	12.16	12.54	12.44	12.48
20	12.98	12.93	12.96	12.53	12.46	12.49	12.34	12.20	12.26	12.47	12.44	12.46
21	13.04	12.92	12.97	12.54	12.46	12.51	12.36	12.31	12.34	12.45	12.43	12.44
22	12.94	12.84	12.88	12.51	12.46	12.49	12.53	12.36	12.41	12.45	12.43	12.44
23	12.99	12.82	12.86	12.60	12.45	12.53	12.51	12.35	12.43	12.43	12.35	12.39
24	12.99	12.86	12.90	12.59	12.49	12.52	12.49	12.39	12.42	12.39	12.32	12.36
25	12.86	12.70	12.78	12.52	12.45	12.49	12.43	12.40	12.42	12.43	12.34	12.38
26	12.79	12.75	12.77	12.47	12.35	12.43	12.41	12.36	12.39	12.43	12.34	12.38
27	12.83	12.77	12.79	12.48	12.41	12.45	12.46	12.37	12.40	12.41	12.33	12.36
28	12.91	12.77	12.84	12.51	12.43	12.46	12.43	12.39	12.41	12.36	12.27	12.31
29	---	---	---	12.50	12.41	12.45	12.51	12.36	12.42	12.39	12.30	12.34
30	---	---	---	12.45	12.40	12.43	12.53	12.45	12.48	12.37	12.31	12.34
31	---	---	---	12.48	12.38	12.43	---	---	---	12.35	12.31	12.32
MONTH	13.04	12.55	12.78	12.93	12.35	12.60	12.53	11.97	12.30	12.79	12.27	12.48

OBION RIVER BASIN

07027000 REELFOOT LAKE NEAR TIPTONVILLE, TN--Continued

GAGE HEIGHT, FEET, 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	12.32	12.28	12.30	12.20	12.10	12.16	12.37	12.34	12.35	12.26	12.11	12.14
2	12.29	12.25	12.27	12.18	12.14	12.16	12.35	12.31	12.33	12.14	12.09	12.11
3	12.31	12.27	12.28	12.22	12.14	12.17	12.32	12.28	12.30	12.10	12.05	12.07
4	12.31	12.28	12.29	12.19	12.08	12.15	12.46	12.28	12.34	12.06	12.04	12.05
5	12.30	12.26	12.28	12.19	12.04	12.16	12.49	12.43	12.45	12.05	12.02	12.04
6	12.29	12.19	12.26	12.21	12.16	12.19	12.45	12.42	12.44	12.03	12.02	12.03
7	12.32	12.18	12.22	12.23	12.20	12.22	12.45	12.40	12.44	12.03	11.96	11.99
8	12.34	12.21	12.25	12.35	12.22	12.26	12.60	12.44	12.46	12.03	11.96	11.99
9	12.24	12.19	12.23	12.31	12.22	12.28	12.60	12.48	12.53	12.02	11.96	11.98
10	12.29	12.16	12.22	12.35	12.28	12.31	12.59	12.53	12.56	12.01	11.93	11.97
11	12.38	12.21	12.25	12.30	12.27	12.28	12.57	12.55	12.56	11.98	11.94	11.96
12	12.34	12.22	12.27	12.27	12.24	12.26	12.56	12.53	12.55	11.94	11.90	11.92
13	12.27	12.18	12.24	12.26	12.23	12.25	12.54	12.51	12.53	11.92	11.90	11.91
14	12.23	12.19	12.22	12.24	12.20	12.23	12.51	12.48	12.50	11.93	11.90	11.91
15	12.20	12.17	12.19	12.22	12.19	12.21	12.49	12.46	12.47	11.93	11.89	11.90
16	12.19	12.17	12.17	12.19	12.16	12.18	12.46	12.44	12.45	12.03	11.90	11.98
17	12.18	12.14	12.16	12.18	12.15	12.16	12.44	12.41	12.43	12.05	12.00	12.03
18	12.16	12.13	12.15	12.21	12.14	12.17	12.41	12.39	12.40	12.04	11.98	12.02
19	12.17	12.12	12.14	12.14	12.12	12.14	12.45	12.34	12.39	12.00	11.96	11.98
20	12.16	12.09	12.13	12.17	12.03	12.10	12.46	12.37	12.43	12.01	11.95	11.98
21	12.22	12.12	12.19	12.14	12.11	12.13	12.44	12.36	12.41	12.05	11.93	11.98
22	12.22	12.17	12.18	12.22	12.05	12.15	12.44	12.34	12.39	12.05	11.91	11.97
23	12.31	12.16	12.18	12.29	12.16	12.21	12.39	12.31	12.35	11.99	11.90	11.94
24	12.18	12.14	12.16	12.40	12.22	12.28	12.35	12.29	12.31	11.93	11.89	11.91
25	12.21	12.13	12.15	12.42	12.31	12.40	12.31	12.26	12.29	11.89	11.86	11.88
26	12.17	12.11	12.14	12.45	12.39	12.42	12.32	12.24	12.27	11.88	11.87	11.87
27	12.14	12.09	12.12	12.43	12.41	12.42	12.27	12.22	12.24	11.87	11.86	11.87
28	12.12	12.07	12.10	12.43	12.40	12.41	12.26	12.19	12.22	11.87	11.85	11.86
29	12.14	12.08	12.11	12.43	12.41	12.42	12.22	12.18	12.20	11.85	11.82	11.84
30	12.20	12.12	12.15	12.44	12.39	12.41	12.18	12.15	12.17	11.83	11.78	11.81
31	---	---	---	12.40	12.37	12.38	12.26	12.12	12.14	---	---	---
MONTH	12.38	12.07	12.20	12.45	12.03	12.25	12.60	12.12	12.38	12.26	11.78	11.96

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HATCHIE RIVER BASIN

07029500 HATCHIE RIVER AT BOLIVAR, TN
(National stream-quality accounting network station)

LOCATION.--Lat 35°16'31", long 88°58'36", Hardeman County, Hydrologic Unit 08010208, on left bank 25 ft upstream from bridge on State Highway 18, 250 ft upstream from Illinois Central Gulf Railroad bridge, 0.6 mi downstream from Spring Creek, 1.5 mi northeast of Bolivar, and at mile 135.1.

DRAINAGE AREA.--1,480 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1929 to current year.

GAGE.--Data collection platform. Datum of gage is 323.49 ft above sea level.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar. 11	2200	*11,400	*16.08	No other peaks above base.			

Minimum discharge, 269 ft³/s, Sept. 12.

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	422	735	4080	3320	3400	1790	1700	2650	968	537	700	343
2	406	727	4000	2620	2910	1840	1380	2220	1270	599	604	329
3	396	737	4310	2140	2510	1790	1220	1970	1890	659	538	318
4	392	726	4940	1780	2190	1670	1120	1880	2320	649	511	308
5	390	720	5380	1530	1910	1830	1080	1850	2440	777	1440	301
6	391	914	5450	1670	1680	2690	1040	1760	2480	1340	2330	294
7	381	1560	5230	3170	1510	4450	995	1610	2470	1770	4310	288
8	374	2050	4940	4230	1390	5710	953	1450	2370	1790	3340	283
9	414	2340	4880	4600	1330	6160	914	1300	2010	1690	2730	278
10	619	2650	5440	4620	1300	8280	880	1150	1520	1680	2840	274
11	826	3100	5720	4910	1300	10900	849	1040	1130	1700	2900	272
12	863	3440	5700	5260	1330	11100	888	991	951	1470	2790	271
13	1100	3610	5750	5440	1310	9790	1020	933	894	1090	2360	306
14	1640	3600	5860	5490	1250	8290	1100	1220	844	848	1680	333
15	1990	3380	6600	5210	1270	7090	1030	1740	771	723	1100	328
16	2100	2940	7400	4860	1480	6180	947	1430	705	666	887	329
17	2180	2370	7320	4490	2020	5480	890	1090	661	620	788	350
18	2250	1790	6680	4270	2520	4870	850	1410	627	570	705	392
19	2320	1340	6020	5440	2850	4230	815	2520	593	536	632	512
20	2330	1100	5450	5580	3180	3390	996	2400	612	519	580	453
21	2210	1030	4940	5770	3440	2640	1210	2050	613	532	563	372
22	2000	1020	5130	5730	3550	2300	1230	1460	600	530	580	337
23	1820	1060	5150	5870	3460	2110	1510	1030	583	703	575	331
24	1630	996	4990	6250	3110	1980	1980	866	555	1020	532	334
25	1440	906	4820	6420	2560	1850	2380	789	532	925	480	337
26	1280	859	4640	6140	2070	1640	2650	727	558	815	442	345
27	1100	1190	4640	5660	1690	2230	2950	848	616	729	417	349
28	955	2830	4700	5250	1610	2960	3180	1550	613	657	398	347
29	856	3710	4650	4840	---	3000	3220	1790	606	608	384	345
30	799	4200	4410	4400	---	2560	3150	1400	562	672	373	340
31	760	---	3970	3880	---	2130	---	1020	---	745	358	---
TOTAL	36634	57630	163190	140840	60130	132930	44127	46144	33364	28169	38867	9999
MEAN	1182	1921	5264	4543	2147	4288	1471	1489	1112	909	1254	333
MAX	2330	4200	7400	6420	3550	11100	3220	2650	2480	1790	4310	512
MIN	374	720	3970	1530	1250	1640	815	727	532	519	358	271
CFSM	.80	1.30	3.56	3.07	1.45	2.90	.99	1.01	.75	.61	.85	.23
IN.	.92	1.45	4.10	3.54	1.51	3.34	1.11	1.16	.84	.71	.98	.25

HATCHIE RIVER BASIN

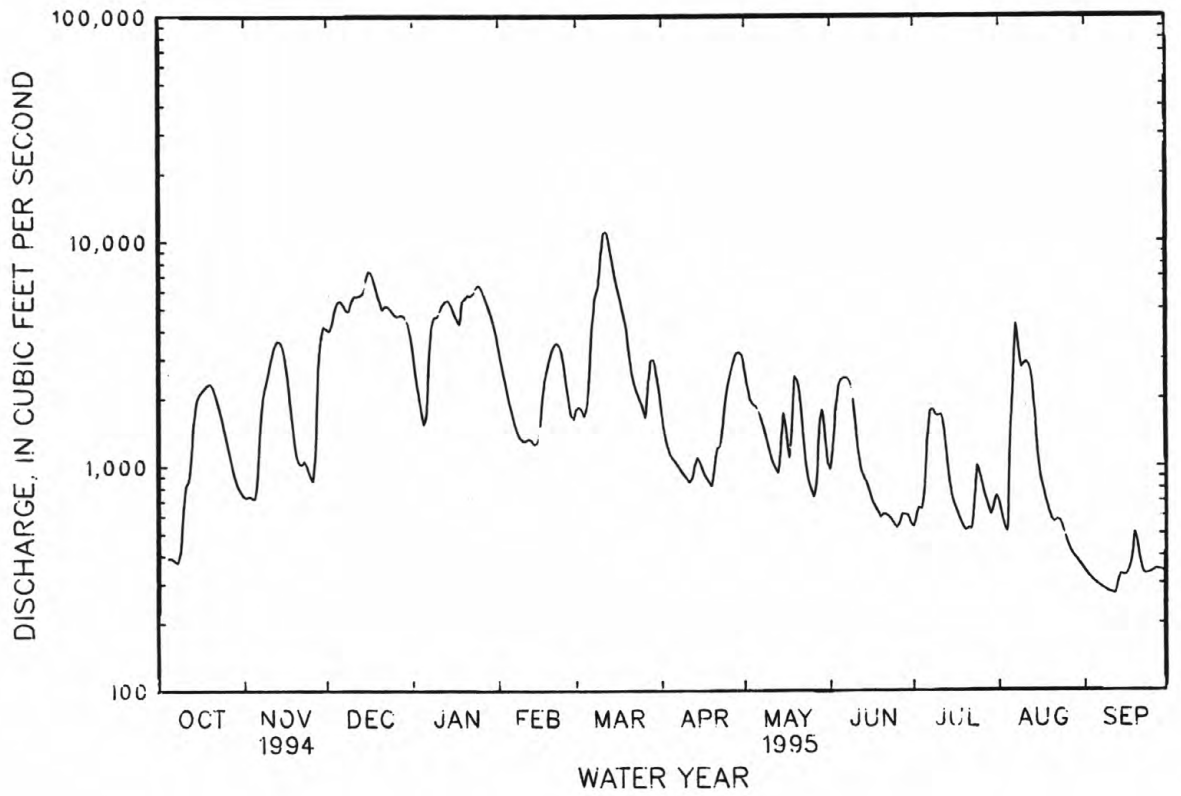
07029500 HATCHIE RIVER AT BOLIVAR, TN--Continued
(National stream-quality accounting network station)

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

MEAN	709	1674	3255	4492	4702	4540	3992	2713	1385	932	614	711
MAX	4447	7457	12490	13420	14060	12110	10960	13540	6319	5933	2678	4651
(WY)	1933	1958	1983	1974	1948	1973	1979	1991	1939	1932	1931	1979
MIN	150	233	422	555	829	1053	711	444	209	189	193	127
(WY)	1957	1957	1955	1955	1934	1941	1986	1942	1941	1943	1954	1956

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1929 - 1995	
ANNUAL TOTAL	1311118		792024			
ANNUAL MEAN	3592		2170		2465	
HIGHEST ANNUAL MEAN					5003	1973
LOWEST ANNUAL MEAN					971	1941
HIGHEST DAILY MEAN	17000	Feb 15	11100	Mar 12	59300	Mar 18 1973
LOWEST DAILY MEAN	374	Oct 8	271	Sep 12	80	Sep 1 1943
ANNUAL SEVEN-DAY MINIMUM	390	Oct 2	280	Sep 6	85	Aug 26 1943
INSTANTANEOUS PEAK FLOW			11400	Mar 11	a61600	Mar 18 1973
INSTANTANEOUS PEAK STAGE			16.08	Mar 11	21.66	Mar 18 1973
INSTANTANEOUS LOW FLOW			269	Sep 12	78	Sep 2 1943
ANNUAL RUNOFF (CFSM)	2.43		1.47		1.67	
ANNUAL RUNOFF (INCHES)	32.96		19.91		22.63	
10 PERCENT EXCEEDS	7040		5240		6060	
50 PERCENT EXCEEDS	2860		1480		1100	
90 PERCENT EXCEEDS	637		394		270	

a From rating curve extended above 34,000 ft³/s.



HATCHIE RIVER BASIN

07029500 HATCHIE RIVER AT BOLIVAR, TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years, 1964, 1968, 1977 to September 1995 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: June 1980 to September 1982, October 1983 to September 1986.
TEMPERATURE: June 1980 to September 1982, October 1983 to September 1986.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 380 microsiemens, Sept. 5, 6, 1985; minimum, 28 microsiemens, Apr. 18, 1982.
WATER TEMPERATURE: Maximum, 31.5°C, July 15, 16, 1980; minimum recorded, 0,0°C, Dec. 23, 1983 to Jan. 3, 1984, several days in 1985, minimum observed, -0.5°C, Jan. 3, 1984.

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

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	BAROMETRIC PRESSURE (MM OF HG)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
DEC												
01...	1030	80020	4160	52	55	6.5	6.5	8.5	782	44	8.9	74
APR												
14...	0930	80020	1100	65	66	7.2	7.2	18.0	760	12	5.6	59
AUG												
03...	0900	80020	560	67	65	6.8	7.0	27.5	760	22	10.2	130

DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKALINITY LAB (MG/L AS CACO3)
DEC												
01...	100	240	16	5	4.4	1.2	2.0	18	0.2	2.7	11	13
APR												
14...	K63	K47	22	0	6.0	1.6	2.8	21	0.3	1.2	23	21
AUG												
03...	89	130	21	1	6.0	1.4	2.4	19	0.2	1.7	20	20

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)
DEC												
01...	5.3	3.9	<0.10	8.0	57	37	0.08	640	0.080	0.010	0.03	0.090
APR												
14...	4.2	2.8	<0.10	7.8	53	41	0.07	157	0.090	0.010	0.03	0.100
AUG												
03...	3.9	3.0	<0.10	9.9	57	43	0.08	86.2	--	<0.010	--	0.260

K--Results based on non-ideal colony count.

HATCHIE RIVER BASIN

07029500 HATCHIE RIVER AT BOLIVAR, TN--Continued

WATER-QUALITY RECORDS

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 NH4)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, 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)
DEC												
01...	0.090	0.03	0.020	0.50	0.59	0.110	0.040	0.030	240	26	<3	990
APR												
14...	0.100	0.09	0.070	0.30	0.40	0.040	0.030	0.030	140	23	<3	970
AUG												
03...	0.260	0.05	0.040	0.30	0.56	0.080	0.050	0.020	130	21	9	1000

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
DEC											
01...	<4	70	<10	2	<1	<1.0	33	<6	49	555	82
APR											
14...	<4	140	<10	<1	<1	<1.0	54	<6	29	86	88
AUG											
03...	<4	170	<10	<1	<1	<1.0	53	<6	27	41	96

LOOSAHATCHIE RIVER BASIN

07030240 LOOSAHATCHIE RIVER NEAR ARLINGTON, TN

LOCATION.--Lat 35°18'37", long 89°38'23", Shelby County, Hydrologic Unit 08010209, on left bank 20 ft downstream from bridge on U.S. Highways 70 and 79, 1.5 mi upstream from Beaver Creek, 1.5 mi northeast of Arlington, and at mile 30.4.

DRAINAGE AREA.--262 mi².

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of the gage is 246.43 ft above sea level.

REMARKS.--Records fair. No estimated daily discharge. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Dec. 10	1300	6,260	14.84	July 23	1030	5,610	14.07
Dec. 22	1015	5,630	14.10	Aug. 5	1215	*10,000	*18.44
Jan. 19	0200	7,650	16.35				

Minimum discharge, 84 ft³/s, July 3.

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	100	154	113	132	109	151	276	171	154	141	104
2	110	100	145	108	128	108	147	221	145	92	140	103
3	106	100	140	105	126	108	144	139	136	84	133	102
4	102	100	139	102	123	108	144	179	127	85	130	102
5	100	104	158	99	121	408	145	173	123	744	6260	102
6	99	106	134	1130	125	435	141	119	145	485	2890	100
7	98	102	128	1040	122	3200	139	136	408	162	1600	100
8	98	102	131	294	118	2120	142	117	166	127	382	100
9	106	102	364	202	116	512	142	103	125	159	238	99
10	103	102	3790	166	117	313	137	97	115	127	279	99
11	102	102	892	157	120	268	140	90	114	111	285	99
12	110	102	269	149	116	240	139	86	129	107	165	99
13	126	102	185	137	116	220	132	86	112	104	145	98
14	112	102	157	138	114	207	131	141	103	101	138	97
15	108	102	142	136	168	199	130	186	99	99	133	96
16	106	101	143	122	271	192	130	99	99	98	130	97
17	103	100	205	113	184	186	128	89	96	96	126	97
18	103	100	154	1400	146	179	127	1500	94	123	122	94
19	105	100	125	4300	131	175	126	957	92	117	120	94
20	105	100	115	726	123	178	685	269	95	94	116	93
21	106	113	110	313	118	216	1070	183	105	204	114	93
22	107	110	3290	229	114	179	322	150	102	115	112	92
23	106	103	894	195	111	171	244	133	92	3150	109	92
24	103	103	298	174	108	163	222	121	90	1840	106	91
25	102	103	194	162	105	158	173	107	92	440	105	91
26	102	103	161	155	103	157	154	104	104	225	104	93
27	102	482	144	150	106	544	143	914	95	194	102	91
28	102	1050	136	150	115	233	119	374	85	173	99	90
29	102	239	129	148	---	178	109	270	92	164	97	89
30	101	174	123	138	---	164	500	164	112	153	100	89
31	100	---	118	134	---	156	---	160	---	142	105	---
TOTAL	3249	4609	13267	12685	3597	11784	6356	7743	3663	10069	14826	2886
MEAN	105	154	428	409	128	380	212	250	122	325	478	96.2
MAX	126	1050	3790	4300	271	3200	1070	1500	408	3150	6260	104
MIN	98	100	110	99	103	108	109	86	85	84	97	89
CFSM	.40	.59	1.63	1.56	.49	1.45	.81	.95	.47	1.24	1.83	.37
IN.	.46	.65	1.88	1.80	.51	1.67	.90	1.10	.52	1.43	2.11	.41

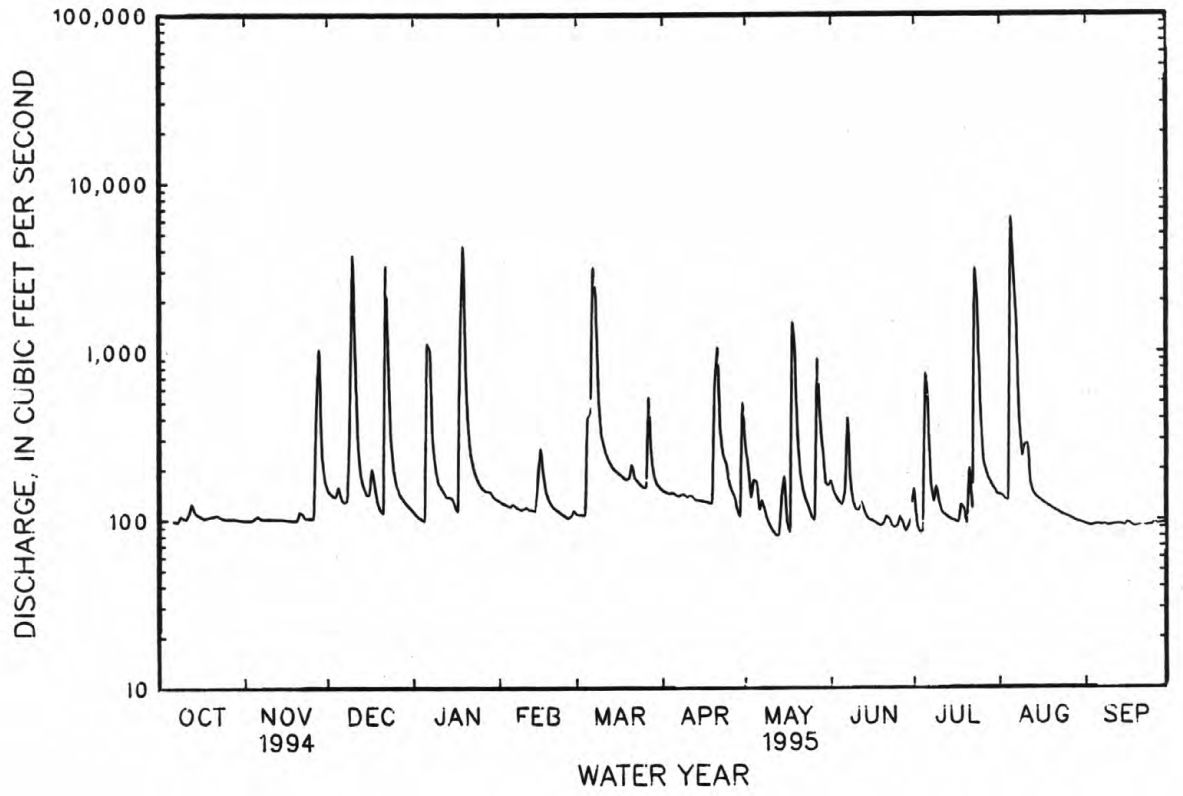
LOOSAHATCHIE RIVER BASIN

07030240 LOOSAHATCHIE RIVER NEAR ARLINGTON, TN--Continued

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

MEAN	133	336	629	514	652	594	601	384	278	200	153	141
MAX	379	1344	1962	1479	2064	1548	2306	1497	1609	1155	521	292
(WY)	1989	1989	1988	1974	1990	1980	1991	1983	1974	1989	1974	1977
MIN	73.4	75.6	106	94.5	128	141	107	93.8	86.7	87.5	84.3	80.7
(WY)	1970	1972	1977	1981	1995	1986	1978	1988	1972	1970	1982	1982

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1970 - 1995	
ANNUAL TOTAL	152274		94734			
ANNUAL MEAN	417		260		383	
HIGHEST ANNUAL MEAN					769	1989
LOWEST ANNUAL MEAN					154	1986
HIGHEST DAILY MEAN	8590	Mar 28	6260	Aug 5	19900	Dec 26 1987
LOWEST DAILY MEAN	98	Oct 7	84	Jul 3	66	Apr 7 1974
ANNUAL SEVEN-DAY MINIMUM	100	Oct 29	91	Sep 24	68	Nov 5 1982
INSTANTANEOUS PEAK FLOW			10000	Aug 5	27400	Dec 25 1987
INSTANTANEOUS PEAK STAGE			18.44	Aug 5	25.27	Dec 25 1987
INSTANTANEOUS LOW FLOW			66	Sep 30	66	Apr 6 1974
ANNUAL RUNOFF (CFSM)	1.59		.99		1.46	
ANNUAL RUNOFF (INCHES)	21.62		13.45		19.86	
10 PERCENT EXCEEDS	620		317		596	
50 PERCENT EXCEEDS	142		123		116	
90 PERCENT EXCEEDS	102		97		85	



LOOSAHATCHIE RIVER BASIN

07030250 BEAVER CREEK NEAR ARLINGTON, TN

LOCATION.--Lat 35°19'12", long 89°39'28", Shelby County, Hydrologic Unit 08010209, at bridge on Galloway Levee Road, 1.5 mi north of Arlington, 1 mi upstream from confluence of Loosahatchie River, 1.5 mi north from Arlington.

DRAINAGE AREA.--148 mi^2.

PERIOD OF RECORD.--June 1994 to May 1995 (discontinued).

GAGE.--Water-stage recorder. Datum of the gage is 230 ft above sea level from topographic map.

REMARKS.--Records good below 631 ft^3/s, poor above.

EXTREMES FOR PERIOD.--July 1994 to April 1995: Maximum discharge, not determined; maximum gage height, 33.96 ft, Jan. 19; minimum daily, 3.5 ft^3/s, Oct. 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR JULY 1994 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	19	---	---
3	---	---	---	---	---	---	---	---	---	16	---	---
4	---	---	---	---	---	---	---	---	---	26	---	---
5	---	---	---	---	---	---	---	---	---	12	---	---
6	---	---	---	---	---	---	---	---	---	8.9	79	---
7	---	---	---	---	---	---	---	---	---	11	35	---
8	---	---	---	---	---	---	---	---	---	34	18	---
9	---	---	---	---	---	---	---	---	---	20	13	---
10	---	---	---	---	---	---	---	---	---	30	9.4	---
11	---	---	---	---	---	---	---	---	---	12	7.8	---
12	---	---	---	---	---	---	---	---	---	8.8	6.8	---
13	---	---	---	---	---	---	---	---	---	12	7.3	---
14	---	---	---	---	---	---	---	---	---	8.8	9.5	---
15	---	---	---	---	---	---	---	---	---	9.4	44	---
16	---	---	---	---	---	---	---	---	---	54	22	---
17	---	---	---	---	---	---	---	---	---	17	11	---
18	---	---	---	---	---	---	---	---	---	14	6.9	---
19	---	---	---	---	---	---	---	---	---	16	---	5.5
20	---	---	---	---	---	---	---	---	---	8.7	---	5.7
21	---	---	---	---	---	---	---	---	---	7.7	---	4.8
22	---	---	---	---	---	---	---	---	---	---	---	5.4
23	---	---	---	---	---	---	---	---	---	139	---	7.4
24	---	---	---	---	---	---	---	---	---	---	---	8.1
25	---	---	---	---	---	---	---	---	---	---	---	8.4
26	---	---	---	---	---	---	---	---	---	28	---	7.3
27	---	---	---	---	---	---	---	---	---	---	---	6.2
28	---	---	---	---	---	---	---	---	---	---	---	5.7
29	---	---	---	---	---	---	---	---	---	---	---	5.9
30	---	---	---	---	---	---	---	---	---	---	---	6.2
31	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	512.3	269.7	76.6
MEAN	---	---	---	---	---	---	---	---	---	23.3	20.7	6.38
MAX	---	---	---	---	---	---	---	---	---	139	79	8.4
MIN	---	---	---	---	---	---	---	---	---	7.7	6.8	4.8
CFSM	---	---	---	---	---	---	---	---	---	.16	.14	.04
IN.	---	---	---	---	---	---	---	---	---	.13	.07	.02

LOOSAHATCHIE RIVER BASIN

07030250 BEAVER CREEK CANAL NEAR ARLINGTON, TN--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO APRIL 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	11	11	15	23	20	21	---	---	---	---	---
2	6.6	10	7.6	12	21	16	18	---	---	---	---	---
3	6.5	10	7.1	10	20	14	15	---	---	---	---	---
4	5.4	9.9	5.0	11	17	14	13	---	---	---	---	---
5	3.8	13	7.3	9.6	16	---	11	---	---	---	---	---
6	3.5	24	7.1	---	14	---	13	---	---	---	---	---
7	3.7	19	5.6	---	14	---	12	---	---	---	---	---
8	3.7	15	5.0	281	14	---	9.6	---	---	---	---	---
9	7.1	13	---	97	12	244	8.6	---	---	---	---	---
10	8.2	15	---	54	14	92	8.4	---	---	---	---	---
11	6.2	19	---	49	16	57	10	---	---	---	---	---
12	8.6	20	241	51	14	42	11	---	---	---	---	---
13	25	18	72	37	11	34	8.1	---	---	---	---	---
14	13	17	37	42	12	28	6.8	---	---	---	---	---
15	6.7	16	24	40	---	23	6.8	---	---	---	---	---
16	4.7	18	23	27	167	20	7.3	---	---	---	---	---
17	3.9	21	---	22	110	18	7.1	---	---	---	---	---
18	4.0	22	136	---	62	17	7.2	---	---	---	---	---
19	4.6	22	58	---	44	15	6.7	---	---	---	---	---
20	5.0	23	---	---	34	14	152	---	---	---	---	---
21	5.0	38	23	234	27	13	---	---	---	---	---	---
22	6.7	35	---	101	21	12	78	---	---	---	---	---
23	9.5	19	---	62	19	12	45	---	---	---	---	---
24	8.5	14	230	43	17	11	47	---	---	---	---	---
25	7.5	16	87	33	14	8.9	24	---	---	---	---	---
26	7.7	17	48	29	14	8.8	16	---	---	---	---	---
27	8.0	---	32	26	17	---	13	---	---	---	---	---
28	8.9	---	24	55	29	---	9.8	---	---	---	---	---
29	9.8	26	20	52	---	99	9.5	---	---	---	---	---
30	10	11	17	29	---	46	---	---	---	---	---	---
31	11	---	15	24	---	29	---	---	---	---	---	---
TOTAL	229.5	511.9	1142.7	1445.6	793	907.7	594.9	---	---	---	---	---
MEAN	7.40	18.3	47.6	55.6	29.4	36.3	21.2	---	---	---	---	---
MAX	25	38	241	281	167	244	152	---	---	---	---	---
MIN	3.5	9.9	5.0	9.6	11	8.8	6.7	---	---	---	---	---
CFSM	.05	.12	.32	.38	.20	.25	.14	---	---	---	---	---
IN.	.06	.13	.29	.36	.20	.23	.15	---	---	---	---	---

WOLF RIVER BASIN

07031650 WOLF RIVER AT GERMANTOWN, TN

LOCATION.--Lat 35°06'59", long 89°48'05", Shelby County, Hydrologic Unit 08010210, on left bank, 30 ft downstream of bridge on Germantown Road, 1.7 mi north of U.S. Hwy 72, 3.6 mi downstream of Grays Creek, 4.0 mi northeast of I-240 and U.S. Highway 72 interchange, and at mile 18.9.

DRAINAGE AREA.--699 mi².

PERIOD OF RECORD.--October 1969 to September 1986, October 1990 to current year. Prior to September 1977 published as "near Germantown". April 21, 1986 to September 1990 water-stage recorder at site 2.1 mi downstream at datum 9.94 ft lower.

GAGE.--Water-stage recorder. Datum of gage is 235.76 ft above sea level. Apr. 21, 1986, to Dec. 30, 1990, water-stage recorder at site 2.1 mi downstream at datum 9.94 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data. National Weather Service rain gage and telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar. 7	1515	*6,000	*12.24				

Minimum discharge, 250 ft³/s, Sept. 28, 29, 30.

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	297	350	717	549	605	e490	574	594	593	350	375	e350
2	297	346	703	525	588	e460	533	548	508	295	363	e342
3	302	347	705	509	573	457	506	503	474	293	351	e338
4	305	347	688	495	545	469	502	617	460	303	398	e332
5	305	427	656	482	521	874	502	583	440	1010	2670	e328
6	299	375	644	1180	505	1200	485	540	434	808	2140	e322
7	298	375	589	1330	495	3820	466	510	427	587	2260	313
8	305	372	579	1280	486	3860	457	500	408	526	2000	303
9	321	385	658	1010	473	3410	448	476	388	565	1750	296
10	314	412	2010	893	470	2760	436	449	368	510	1770	291
11	319	441	1330	876	470	2520	481	427	381	482	1380	286
12	417	452	1350	867	463	2180	449	402	369	436	1010	280
13	442	441	1220	780	451	1830	443	388	376	394	722	277
14	466	429	1080	693	460	1330	424	375	350	365	579	273
15	445	425	937	633	530	969	413	377	336	354	506	269
16	435	425	876	594	516	814	410	384	e357	337	459	266
17	437	417	797	564	581	721	409	383	316	329	416	264
18	446	409	681	1640	613	660	410	822	309	e511	387	264
19	449	395	609	2620	581	621	401	1040	302	e470	363	261
20	440	386	572	2170	601	636	1070	1000	299	e355	346	264
21	420	428	582	1780	e644	649	1710	823	392	339	333	260
22	407	403	3300	1450	e620	660	1870	623	344	328	328	259
23	411	396	1640	1340	e560	633	1710	493	319	1610	e323	258
24	413	383	1170	1220	e510	601	1050	444	325	1600	e338	255
25	403	377	831	1060	e505	572	728	408	309	853	e385	255
26	389	378	736	853	e482	549	623	508	326	650	e375	255
27	382	986	740	731	e500	915	572	995	305	563	e358	255
28	369	935	731	689	e540	1150	536	1450	295	515	e350	254
29	359	723	670	636	---	974	520	1090	290	450	e330	253
30	355	730	611	621	---	787	599	743	342	426	e329	263
31	354	---	576	608	---	630	---	640	---	403	e365	---
TOTAL	11601	13695	28988	30678	14888	38201	19737	19135	11142	17017	24059	8486
MEAN	374	456	935	990	532	1232	658	617	371	549	776	283
MAX	466	986	3300	2620	644	3860	1870	1450	593	1610	2670	350
MIN	297	346	572	482	451	457	401	375	290	293	323	253
CFSM	.54	.65	1.34	1.42	.76	1.76	.94	.88	.53	.79	1.11	.40
IN.	.62	.73	1.54	1.63	.79	2.03	1.05	1.02	.59	.91	1.28	.45

e Estimated

WOLF RIVER BASIN

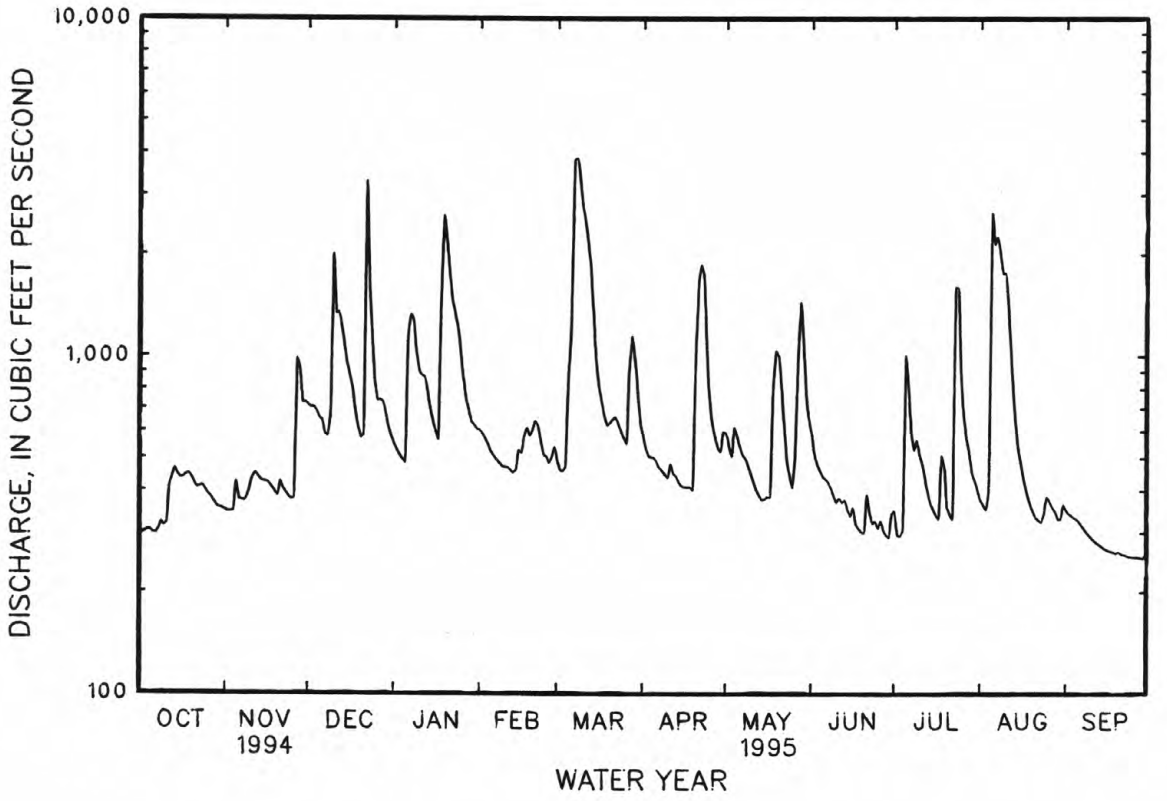
07031650 WOLF RIVER AT GERMANTOWN, TN--Continued

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

MEAN	416	759	1587	1394	1299	1672	1666	1310	765	455	409	430
MAX	1063	1991	4939	3504	3256	4854	4805	4542	1986	985	776	1345
(WY)	1985	1980	1983	1974	1991	1980	1991	1991	1974	1994	1995	1979
MIN	213	239	439	372	532	569	448	364	271	258	240	244
(WY)	1970	1972	1981	1981	1995	1986	1986	1992	1972	1971	1986	1986

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1970 - 1995	
ANNUAL TOTAL	383167		237627			
ANNUAL MEAN	1050		651		1013	
HIGHEST ANNUAL MEAN					1807	1991
LOWEST ANNUAL MEAN					497	1986
HIGHEST DAILY MEAN	7980	Jan 28	3860	Mar 8	30400	Mar 14 1975
LOWEST DAILY MEAN	287	Sep 21	253	Sep 29	196	Sep 15 1972
ANNUAL SEVEN-DAY MINIMUM	290	Sep 16	255	Sep 23	199	Sep 12 1972
INSTANTANEOUS PEAK FLOW			6000	Mar 7	33400	Mar 14 1975
INSTANTANEOUS PEAK STAGE			12.24	Mar 7	27.98	Mar 14 1975
INSTANTANEOUS LOW FLOW			a250	Sep 28	184	Oct 8 1987
ANNUAL RUNOFF (CFSM)	1.50		.93		1.45	
ANNUAL RUNOFF (INCHES)	20.39		12.65		19.68	
10 PERCENT EXCEEDS	2290		1210		2170	
50 PERCENT EXCEEDS	653		474		524	
90 PERCENT EXCEEDS	325		305		278	

a Also occurred Sept. 29, 30.



NONCONNAH CREEK BASIN

07032200 NONCONNAH CREEK NEAR GERMANTOWN, TN

LOCATION.--Lat 35°02'59", long 89°49'08", Shelby County, Hydrologic Unit 08010211, on left bank at downstream side of bridge on Winchester Road, 2.6 mi south of Germantown, and at mile 17.3.

DRAINAGE AREA.--68.2 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1959-1964, 1969; October 1969 to May 1985, October 1985 to January 1995 gage discontinued for bridge construction.

REVISED RECORDS.--WRD TN-74-1: Drainage area, WRD TN-87-1 (P).

GAGE.--Water-stage recorder. Datum of gage is 262.92 ft above sea level, (levels by Soil Conservation Service).

REMARKS.--Records fair. National Weather Service rain gage and telemeter at station.

EXTREMES FOR CURRENT PERIOD.--October 1994 to January 1995: Maximum discharge, 3,250 ft³/s occured on Nov. 27, 1994.

Minimum daily discharge 0.28 ft³/s, Oct. 28, 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO JANUARY 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.65	.37	e4.1	4.5	---	---	---	---	---	---	---	---
2	.81	.32	e4.8	3.1	---	---	---	---	---	---	---	---
3	1.2	.31	e4.4	1.7	---	---	---	---	---	---	---	---
4	.96	.33	e2.3	1.8	---	---	---	---	---	---	---	---
5	.84	36	e1.5	1.5	---	---	---	---	---	---	---	---
6	.61	8.5	e1.3	512	---	---	---	---	---	---	---	---
7	.41	2.0	e1.1	219	---	---	---	---	---	---	---	---
8	12	1.3	e80	51	---	---	---	---	---	---	---	---
9	29	17	e740	29	---	---	---	---	---	---	---	---
10	5.7	20	e250	20	---	---	---	---	---	---	---	---
11	1.3	7.8	e100	19	---	---	---	---	---	---	---	---
12	60	2.0	e190	16	---	---	---	---	---	---	---	---
13	22	1.0	e60	9.5	---	---	---	---	---	---	---	---
14	2.4	.84	e68	15	---	---	---	---	---	---	---	---
15	.62	.80	e45	3.2	---	---	---	---	---	---	---	---
16	.48	2.4	e18	.50	---	---	---	---	---	---	---	---
17	.41	.87	e3.7	.58	---	---	---	---	---	---	---	---
18	.86	1.1	e1.5	71	---	---	---	---	---	---	---	---
19	3.5	.96	e.72	13	---	---	---	---	---	---	---	---
20	.87	8.9	e2.0	e11	---	---	---	---	---	---	---	---
21	1.7	46	e26	e8.0	---	---	---	---	---	---	---	---
22	1.0	6.6	1460	e12	---	---	---	---	---	---	---	---
23	.69	1.2	167	e18	---	---	---	---	---	---	---	---
24	.55	.72	47	e11	---	---	---	---	---	---	---	---
25	.47	.65	26	e5.6	---	---	---	---	---	---	---	---
26	.39	4.6	19	e2.2	---	---	---	---	---	---	---	---
27	.32	372	13	e1.3	---	---	---	---	---	---	---	---
28	.28	66	10	e.80	---	---	---	---	---	---	---	---
29	.28	18	7.3	e3.0	---	---	---	---	---	---	---	---
30	.31	6.1	4.5	e1.8	---	---	---	---	---	---	---	---
31	.35	---	4.6	e.72	---	---	---	---	---	---	---	---
TOTAL	150.96	634.67	3362.82	1066.80	---	---	---	---	---	---	---	---
MEAN	4.87	21.2	108	34.4	---	---	---	---	---	---	---	---
MAX	60	372	1460	512	---	---	---	---	---	---	---	---
MIN	.28	.31	.72	.50	---	---	---	---	---	---	---	---
CFSM	.07	.31	1.59	.50	---	---	---	---	---	---	---	---
IN.	.08	.35	1.83	.58	---	---	---	---	---	---	---	---

e Estimated

NONCONNAH CREEK BASIN

07032200 NONCONNAH CREEK NEAR GERMANTOWN, TN--Continued

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

MEAN	14.1	99.1	181	156	187	203	191	114	60.8	39.3	13.4	21.4
MAX	69.4	323	616	531	604	659	834	407	300	354	77.4	164
(WY)	1990	1989	1983	1974	1989	1980	1991	1979	1974	1989	1978	1977
MIN	.000	.21	2.24	.41	14.6	15.2	9.44	3.74	3.09	.70	.37	.087
(WY)	1970	1972	1977	1986	1978	1986	1978	1988	1988	1976	1980	1984

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1970 - 1995	
ANNUAL TOTAL	32950.76					
ANNUAL MEAN	90.3				108	
HIGHEST ANNUAL MEAN					215	1979
LOWEST ANNUAL MEAN					22.4	1986
HIGHEST DAILY MEAN	3560	Jan 27	1460	Dec 22	5900	Jul 2 1989
LOWEST DAILY MEAN	.03	Aug 12	.28	Oct 28	a.00	Oct 1 1969
ANNUAL SEVEN-DAY MINIMUM	.15	Sep 13	.32	Oct 28	.00	Oct 1 1969
INSTANTANEOUS PEAK FLOW			3250	Nov 27	13100	Jul 2 1989
INSTANTANEOUS PEAK STAGE			12.62	Nov 27	12.62	Nov 27 1994
INSTANTANEOUS LOW FLOW			.10	Oct 7	a.00	Oct 1 1969
ANNUAL RUNOFF (CFSM)	1.32				1.58	
ANNUAL RUNOFF (INCHES)	17.97				21.50	
10 PERCENT EXCEEDS	145		67		185	
50 PERCENT EXCEEDS	11		3.2		4.8	
90 PERCENT EXCEEDS	.42		.43		.13	

a No flow at tmes most years.

TENNESSEE RIVER BASIN

FLOOD-HYDROGRAPH STATION

The data given in the following tables include a description of the station and a table showing time and discharge for the highest peak that occurred during the year. Information is available on some lower peaks, but is not published herein.

03486305 SINKING CREEK AT SINKING CREEK ROAD AT JOHNSON CITY, TN

LOCATION.--Lat 36°16'49", long 82°22'05", Washington County, Hydrologic Unit 06010103, on left bank at downstream end of culvert at Sinking Creek Road, 1.5 miles south of courthouse in Johnson City, and at mile 7.2.

DRAINAGE AREA.--4.10 mi^2.

PERIOD OF RECORD.--October 1992 to September 1995 (discontinued).

GAGE.--Water stage recorder. Datum of gage is 1829.20 ft above sea level.

MAXIMUM FOR PERIOD OF RECORD.--Maximum discharge, 411 ft^3/s, Mar. 27, 1994, gage height, 4.10 ft.

MAXIMUM FOR CURRENT YEAR.--Maximum discharge, 110 ft^3/s, Feb. 16, gage height, 2.63 ft.

UNIT DISCHARGE (CUBIC FEET/SECOND)

FEBRUARY 16, 1995

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
00:15:00	28	05:15:00	94	10:15:00	107	15:15:00	103	20:15:00	94
00:30:00	33	05:30:00	98	10:30:00	108	15:30:00	101	20:30:00	94
00:45:00	41	05:45:00	98	10:45:00	108	15:45:00	101	20:45:00	94
01:00:00	49	06:00:00	100	11:00:00	107	16:00:00	101	21:00:00	94
01:15:00	51	06:15:00	98	11:15:00	107	16:15:00	103	21:15:00	93
01:30:00	55	06:30:00	101	11:30:00	105	16:30:00	100	21:30:00	93
01:45:00	57	06:45:00	104	11:45:00	107	16:45:00	100	21:45:00	93
02:00:00	58	07:00:00	100	12:00:00	110	17:00:00	100	22:00:00	91
02:15:00	64	07:15:00	101	12:15:00	107	17:15:00	98	22:15:00	91
02:30:00	69	07:30:00	104	12:30:00	107	17:30:00	100	22:30:00	91
02:45:00	73	07:45:00	107	12:45:00	107	17:45:00	100	22:45:00	93
03:00:00	75	08:00:00	107	13:00:00	107	18:00:00	100	23:00:00	91
03:15:00	75	08:15:00	107	13:15:00	107	18:15:00	98	23:15:00	90
03:30:00	74	08:30:00	110	13:30:00	105	18:30:00	97	23:30:00	90
03:45:00	78	08:45:00	107	13:45:00	105	18:45:00	98	23:45:00	89
04:00:00	82	09:00:00	107	14:00:00	104	19:00:00	97	24:00:00	89
04:15:00	87	09:15:00	107	14:15:00	104	19:15:00	94		
04:30:00	90	09:30:00	108	14:30:00	103	19:30:00	96		
04:45:00	90	09:45:00	107	14:45:00	101	19:45:00	96		
05:00:00	97	10:00:00	108	15:00:00	101	20:00:00	96		

TENNESSEE RIVER BASIN

FLOOD-HYDROGRAPH STATION

03486311 SINKING CREEK AT HIGHWAY 67 AT JOHNSON CITY, TN

LOCATION.--Lat 36°18'41", long 82°19'48", Washington County, Hydrologic Unit 06010103, on right bank at downstream end of culvert at State Highway 67, 1.2 miles east of Johnson City Courthouse, and at mile 3.9.

DRAINAGE AREA.--7.29 mi².

PERIOD OF RECORD.--October 1990 to September 1992. Flood hydrograph, October 1992 to September 1995 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1594.26 ft above sea level.

MAXIMUM FOR PERIOD OF RECORD.--Maximum discharge, 573 ft³/s, Mar. 27, 1994, gage height, 4.59 ft.

MAXIMUM FOR CURRENT YEAR.--Maximum discharge, 382 ft³/s, June 12, gage height, 4.43 ft.

UNIT DISCHARGE (CUBIC FEET/SECOND)

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
				JUNE 12, 1995					
00:15:00	5.9	05:15:00	4.3	10:15:00	36	15:15:00	45	20:15:00	34
00:30:00	5.7	05:30:00	4.3	10:30:00	35	15:30:00	45	20:30:00	34
00:45:00	5.5	05:45:00	100	10:45:00	35	15:45:00	43	20:45:00	33
01:00:00	5.5	06:00:00	309	11:00:00	36	16:00:00	43	21:00:00	33
01:15:00	5.2	06:15:00	382	11:15:00	36	16:15:00	42	21:15:00	32
01:30:00	5.2	06:30:00	255	11:30:00	46	16:30:00	40	21:30:00	32
01:45:00	5.0	06:45:00	155	11:45:00	82	16:45:00	40	21:45:00	30
02:00:00	5.0	07:00:00	93	12:00:00	155	17:00:00	39	22:00:00	29
02:15:00	4.8	07:15:00	70	12:15:00	133	17:15:00	39	22:15:00	29
02:30:00	4.8	07:30:00	53	12:30:00	100	17:30:00	39	22:30:00	28
02:45:00	4.8	07:45:00	51	12:45:00	79	17:45:00	39	22:45:00	28
03:00:00	4.6	08:00:00	45	13:00:00	67	18:00:00	38	23:00:00	27
03:15:00	4.6	08:15:00	43	13:15:00	61	18:15:00	38	23:15:00	27
03:30:00	4.6	08:30:00	43	13:30:00	57	18:30:00	38	23:30:00	27
03:45:00	4.4	08:45:00	45	13:45:00	51	18:45:00	36	23:45:00	26
04:00:00	4.4	09:00:00	45	14:00:00	50	19:00:00	36	24:00:00	26
04:15:00	4.4	09:15:00	46	14:15:00	48	19:15:00	36		
04:30:00	4.3	09:30:00	45	14:30:00	48	19:30:00	35		
04:45:00	4.3	09:45:00	42	14:45:00	46	19:45:00	35		
05:00:00	4.3	10:00:00	38	15:00:00	46	20:00:00	35		

TENNESSEE RIVER BASIN

FLOOD-HYDROGRAPH STATION

03486312 CATBIRD CREEK AT MIAMI DRIVE AT JOHNSON CITY, TN

LOCATION.--Lat 36°18'45", long 82°19'32", Washington County, Hydrologic Unit 06010103, on right bank at downstream end of culvert at Miami Drive, 1.5 miles east of Johnson City Courthouse, and at mile 0.1.

DRAINAGE AREA.--2.91 mi², includes 0.14 mi² without surface drainage.

PERIOD OF RECORD.--October 1990 to September 1992. Flood hydrograph, October 1992 to September 1995 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1581.02 ft above sea level.

MAXIMUM FOR PERIOD OF RECORD.--Maximum discharge, 142 ft³/s, Mar. 27, 1994, gage height, 5.79 ft.

MAXIMUM FOR CURRENT YEAR.--Maximum discharge, 76 ft³/s, June 12, gage height, 5.11 ft.

UNIT DISCHARGE (CUBIC FEET/SECOND)

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
JUNE 12, 1995									
05:45:00	13	09:30:00	36	13:15:00	46	17:00:00	15	20:45:00	13
06:00:00	27	09:45:00	32	13:30:00	47	17:15:00	15	21:00:00	12
06:15:00	48	10:00:00	30	13:45:00	48	17:30:00	15	21:15:00	12
06:30:00	74	10:15:00	27	14:00:00	46	17:45:00	14	21:30:00	13
06:45:00	76	10:30:00	26	14:15:00	40	18:00:00	14	21:45:00	12
07:00:00	67	10:45:00	23	14:30:00	34	18:15:00	14	22:00:00	12
07:15:00	60	11:00:00	21	14:45:00	29	18:30:00	14	22:15:00	12
07:30:00	57	11:15:00	19	15:00:00	26	18:45:00	14	22:30:00	12
07:45:00	59	11:30:00	19	15:15:00	23	19:00:00	13	22:45:00	12
08:00:00	62	11:45:00	22	15:30:00	21	19:15:00	13	23:00:00	12
08:15:00	67	12:00:00	26	15:45:00	19	19:30:00	13	23:15:00	12
08:30:00	67	12:15:00	28	16:00:00	18	19:45:00	13	23:30:00	12
08:45:00	66	12:30:00	33	16:15:00	17	20:00:00	13	23:45:00	12
09:00:00	58	12:45:00	42	16:30:00	16	20:15:00	13	24:00:00	12
09:15:00	44	13:00:00	46	16:45:00	16	20:30:00	13		

TENNESSEE RIVER BASIN

FLOOD-HYDROGRAPH STATION

03486485 BRUSH CREEK AT STATE OF FRANKLIN ROAD AT JOHNSON CITY, TN

LOCATION.--Lat 36°18'08", long 82°22'53", Washington County, Hydrologic Unit 06010103, on right bank at downstream end of culvert at State of Franklin Road, 1.8 miles west of Johnson City Courthouse, and at mile 8.1.

DRAINAGE AREA.--4.05 mi^2, includes 0.82 mi^2 without surface drainage.

PERIOD OF RECORD.--October 1990 to September 1992. Flood hydrograph, October 1992 to September 1995 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1656.08 ft above sea level.

MAXIMUM FOR PERIOD OF RECORD.--Maximum discharge, 393 ft^3/s, July 28, 1991, gage height, 5.63 ft, from rating curve extended above 74 ft^3/s, based on step-backwater analysis.

MAXIMUM FOR CURRENT YEAR.--Maximum discharge, 112 ft^3/s, June 12, gage height, 3.73 ft, from rating curve extended above 74 ft^3/s, based on step-backwater analysis.

UNIT DISCHARGE (CUBIC FEET/SECOND)

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
				JUNE 12, 1995					
05:30:00	24	07:30:00	58	09:30:00	32	11:30:00	34	13:30:00	32
05:45:00	43	07:45:00	49	09:45:00	30	11:45:00	42	13:45:00	29
06:00:00	57	08:00:00	45	10:00:00	29	12:00:00	45	14:00:00	28
06:15:00	77	08:15:00	42	10:15:00	28	12:15:00	49	14:15:00	27
06:30:00	108	08:30:00	40	10:30:00	27	12:30:00	52	14:30:00	25
06:45:00	112	08:45:00	38	10:45:00	26	12:45:00	48	14:45:00	23
07:00:00	90	09:00:00	36	11:00:00	26	13:00:00	42	15:00:00	22
07:15:00	70	09:15:00	33	11:15:00	29	13:15:00	37	15:15:00	21

TENNESSEE RIVER BASIN

FLOOD-HYDROGRAPH STATION

03486494 BRUSH CREEK AT JOHNSON CITY, TN

LOCATION.--Lat 36°19'15", long 82°21'01", Washington County, Hydrologic Unit 06010103, on right bank at downstream end of culvert, 1000 ft upstream from Elm Street, 0.5 mile north of Johnson City Courthouse, and at mile 5.7.

DRAINAGE AREA.--9.58 mi^2, including 1.09 mi^2 without surface drainage.

PERIOD OF RECORD.--October 1990 to September 1992. Flood hydrograph, October 1992 to September 1995 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1602.76 ft above sea level.

MAXIMUM FOR PERIOD OF RECORD.--Maximum discharge, 818 ft^3/s, June 12, 1995, gage height, 8.69 ft, from rating curve extended above 180 ft^3/s, based on step-back water analysis; maximum gage height, 8.69 ft, June 12, 1995.

MAXIMUM FOR CURRENT YEAR.--Maximum discharge, 818 ft^3/s, June 12, gage height, 8.69 ft, from rating curve extended above 180 ft^3/s, based on step-back water analysis.

UNIT DISCHARGE (CUBIC FEET/SECOND)

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
JUNE 12, 1995									
05:30:00	75	06:15:00	812	07:00:00	363	07:45:00	78		
05:45:00	216	06:30:00	818	07:15:00	205	08:00:00	57		
06:00:00	461	06:45:00	595	07:30:00	114				

TENNESSEE RIVER BASIN

FLOOD-HYDROGRAPH STATION

03486508 BRUSH CREEK AT PINEY GROVE AT JOHNSON CITY, TN

LOCATION.--Lat 36°20'53", long 82°19'09", Washington County, Hydrologic Unit 06010103, on right downstream wingwall on driveway bridge over Brush Creek, 2.0 mi northeast of Johnson City Courthouse, and at mile 3.9.

DRAINAGE AREA.--14.0 mi^2, includes 1.09 mi^2 without surface drainage.

PERIOD OF RECORD.--October 1990 to September 1992. Flood hydrograph, October 1992 to September 1995 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1521.71 ft above sea level.

MAXIMUM FOR PERIOD OF RECORD.--Maximum discharge, 681 ft^3/s, Mar. 27, 1994, gage height, 5.65 ft.

MAXIMUM FOR CURRENT YEAR.--Maximum discharge, 604 ft^3/s, June 12, gage height, 5.34 ft.

UNIT DISCHARGE (CUBIC FEET/SECOND)

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
					JUNE 12, 1995				
00:15:00	23	05:15:00	12	10:15:00	184	15:15:00	102	20:15:00	41
00:30:00	22	05:30:00	13	10:30:00	153	15:30:00	90	20:30:00	40
00:45:00	20	05:45:00	17	10:45:00	131	15:45:00	83	20:45:00	40
01:00:00	20	06:00:00	28	11:00:00	114	16:00:00	77	21:00:00	39
01:15:00	19	06:15:00	119	11:15:00	104	16:15:00	71	21:15:00	38
01:30:00	18	06:30:00	386	11:30:00	105	16:30:00	67	21:30:00	38
01:45:00	18	06:45:00	488	11:45:00	118	16:45:00	63	21:45:00	38
02:00:00	17	07:00:00	528	12:00:00	161	17:00:00	60	22:00:00	37
02:15:00	16	07:15:00	559	12:15:00	232	17:15:00	58	22:15:00	36
02:30:00	16	07:30:00	593	12:30:00	287	17:30:00	56	22:30:00	36
02:45:00	15	07:45:00	591	12:45:00	316	17:45:00	54	22:45:00	35
03:00:00	15	08:00:00	604	13:00:00	309	18:00:00	52	23:00:00	35
03:15:00	14	08:15:00	587	13:15:00	269	18:15:00	50	23:15:00	34
03:30:00	13	08:30:00	526	13:30:00	219	18:30:00	49	23:30:00	33
03:45:00	13	08:45:00	349	13:45:00	178	18:45:00	48	23:45:00	33
04:00:00	13	09:00:00	263	14:00:00	153	19:00:00	46	24:00:00	33
04:15:00	13	09:15:00	242	14:15:00	137	19:15:00	44		
04:30:00	12	09:30:00	236	14:30:00	124	19:30:00	43		
04:45:00	12	09:45:00	228	14:45:00	118	19:45:00	41		
05:00:00	12	10:00:00	212	15:00:00	110	20:00:00	41		

TENNESSEE RIVER BASIN

FLOOD-HYDROGRAPH STATION

03486657 KNOB CREEK AT CLAUDE SIMMONS ROAD AT JOHNSON CITY, TN

LOCATION.--Lat 36°19'52", long 82°25'29", Washington County, Hydrologic Unit 06010103, on left bank at downstream end of culvert at Claude Simmons Road, 4.4 mi northwest of Johnson City Courthouse, and at mile 6.7.

DRAINAGE AREA.--3.15 mi^2, includes 0.13 mi^2 without surface drainage.

PERIOD OF RECORD.--October 1990 to September 1992. Flood hydrograph, October 1992 to September 1995 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1623.62 ft above sea level.

MAXIMUM FOR PERIOD OF RECORD.--Maximum discharge, 143 ft^3/s, Mar. 27, 1994, gage height, 4.75 ft.

MAXIMUM FOR CURRENT YEAR.--Maximum discharge, 74 ft^3/s, Mar. 8, gage height, 3.68 ft.

UNIT DISCHARGE (CUBIC FEET/SECOND)

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
				MARCH 8, 1995					
08:15:00	8.1	11:30:00	71	14:45:00	23	18:00:00	13	21:15:00	11
08:30:00	9.9	11:45:00	74	15:00:00	21	18:15:00	13	21:30:00	11
08:45:00	12	12:00:00	73	15:15:00	19	18:30:00	13	21:45:00	11
09:00:00	15	12:15:00	68	15:30:00	18	18:45:00	13	22:00:00	11
09:15:00	18	12:30:00	61	15:45:00	17	19:00:00	13	22:15:00	11
09:30:00	22	12:45:00	54	16:00:00	16	19:15:00	13	22:30:00	11
09:45:00	26	13:00:00	49	16:15:00	16	19:30:00	13	22:45:00	11
10:00:00	33	13:15:00	44	16:30:00	15	19:45:00	13	23:00:00	10
10:15:00	43	13:30:00	39	16:45:00	15	20:00:00	12	23:15:00	10
10:30:00	49	13:45:00	35	17:00:00	14	20:15:00	12	23:30:00	10
10:45:00	53	14:00:00	31	17:15:00	14	20:30:00	12	23:45:00	10
11:00:00	59	14:15:00	28	17:30:00	14	20:45:00	12	24:00:00	10
11:15:00	65	14:30:00	26	17:45:00	13	21:00:00	12		

TENNESSEE RIVER BASIN

FLOOD-HYDROGRAPH STATION

03486659 KNOB CREEK TRIBUTARY AT KNOB CREEK ROAD AT JOHNSON CITY, TN

LOCATION.--Lat 36°20'26", long 82°24'33", Washington County, Hydrologic Unit 06010103, on right bank at downstream end of culvert under Knob Creek Road, and at mile 0.1.

DRAINAGE AREA.--1.97 mi^2, includes 0.66 mi^2 without surface drainage.

PERIOD OF RECORD.--October 1990 to September 1992. Flood hydrograph, October 1992 to September 1995 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 590.36 ft above sea level.

MAXIMUM FOR PERIOD OF RECORD.--Maximum discharge, unknown, Mar. 27, 1994, gage height, 2.85 ft.

MAXIMUM FOR CURRENT YEAR.--Maximum discharge, 320 ft^3/s, Mar. 8, gage height, 1.93 ft.

UNIT DISCHARGE (CUBIC FEET/SECOND)

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
				MARCH 08, 1995					
07:45:00	3.2	11:15:00	275	14:45:00	13	18:15:00	6.5	21:45:00	5.1
08:00:00	5.6	11:30:00	237	15:00:00	12	18:30:00	6.5	22:00:00	5.1
08:15:00	8.1	11:45:00	213	15:15:00	10	18:45:00	7.0	22:15:00	4.8
08:30:00	13	12:00:00	203	15:30:00	9.4	19:00:00	7.0	22:30:00	4.8
08:45:00	23	12:15:00	182	15:45:00	9.4	19:15:00	7.0	22:45:00	4.8
09:00:00	32	12:30:00	164	16:00:00	8.7	19:30:00	6.5	23:00:00	4.4
09:15:00	30	12:45:00	132	16:15:00	8.1	19:45:00	6.5	23:15:00	4.4
09:30:00	34	13:00:00	95	16:30:00	7.5	20:00:00	6.5	23:30:00	4.1
09:45:00	44	13:15:00	59	16:45:00	7.0	20:15:00	6.0	23:45:00	4.1
10:00:00	100	13:30:00	41	17:00:00	7.0	20:30:00	6.0	24:00:00	4.1
10:15:00	164	13:45:00	32	17:15:00	7.0	20:45:00	6.0		
10:30:00	275	14:00:00	25	17:30:00	6.5	21:00:00	5.6		
10:45:00	320	14:15:00	19	17:45:00	6.5	21:15:00	5.6		
11:00:00	304	14:30:00	14	18:00:00	6.5	21:30:00	5.1		

TENNESSEE RIVER BASIN

FLOOD-HYDROGRAPH STATION

03486670 COBB CREEK AT EAST OAKLAND AVENUE AT JOHNSON CITY, TN

LOCATION.--Lat 36°21'24", long 82°25'29", Washington County, Hydrologic Unit 06010103, on right bank at downstream end of culvert at Oakland Avenue, 3.1 miles north of Johnson City courthouse, and at mile 3.1.

DRAINAGE AREA.--3.75 mi^2, includes 1.45 mi^2 without surface drainage.

PERIOD OF RECORD.--October 1990 to September 1992. Flood hydrograph, October 1992 to September 1995 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1533.56 ft above sea level.

MAXIMUM FOR PERIOD OF RECORD.--Maximum discharge, 374 ft^3/s, May 27, 1991, gage height, 5.95 ft, from rating curve extended above 52 ft^3/s, on basis of slope-area measurement at gage height 5.95 ft.

MAXIMUM FOR CURRENT YEAR.--Maximum discharge, 133 ft^3/s, June 12, gage height, 4.33 ft, from rating curve extended above 52 ft^3/s, on basis of slope-area measurement at gage height 5.95 ft.

UNIT DISCHARGE (CUBIC FEET/SECOND)

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
				JUNE 12, 1995					
06:00:00	46	08:00:00	39	10:00:00	20	12:00:00	73	14:00:00	16
06:15:00	54	08:15:00	32	10:15:00	18	12:15:00	78	14:15:00	14
06:30:00	72	08:30:00	27	10:30:00	16	12:30:00	51	14:30:00	13
06:45:00	133	08:45:00	24	10:45:00	15	12:45:00	29	14:45:00	12
07:00:00	129	09:00:00	25	11:00:00	14	13:00:00	24	15:00:00	11
07:15:00	78	09:15:00	25	11:15:00	17	13:15:00	23		
07:30:00	56	09:30:00	23	11:30:00	23	13:30:00	21		
07:45:00	48	09:45:00	21	11:45:00	40	13:45:00	18		

TENNESSEE RIVER BASIN

FLOOD-HYDROGRAPH STATION

03495547 LOVE CREEK AT I-40 AT KNOXVILLE, TN

LOCATION.--Lat 36°00'39", long 83°50'36", Knox County, Hydrologic Unit 06010201, on left downstream wingwall of culvert under I-40, at mile 1.2.

DRAINAGE AREA.--8.01 mi².

PERIOD OF RECORD.--June 1990 to September 1992. Flood hydrograph, October 1992 to September 1995 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 830.42 ft above sea level.

MAXIMUM FOR PERIOD OF RECORD.--Maximum discharge, 692 ft³/s, Dec. 23, 1990, gage height, 7.98 ft.

MAXIMUM FOR CURRENT YEAR.--Maximum discharge, 274 ft³/s, May 9, gage height, 4.91 ft.

UNIT DISCHARGE (CUBIC FEET/SECOND)

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
				MAY 9, 1995					
00:15:00	5.4	05:00:00	5.4	09:45:00	5.4	14:45:00	5.4	19:30:00	123
00:30:00	5.4	05:15:00	5.4	10:00:00	5.7	15:00:00	5.7	19:45:00	137
00:45:00	5.4	05:30:00	5.4	10:15:00	5.4	15:15:00	6.0	20:00:00	113
01:00:00	5.4	05:45:00	5.4	10:30:00	5.7	15:30:00	5.7	20:15:00	112
01:15:00	5.4	06:00:00	5.4	10:45:00	5.7	15:45:00	5.7	20:30:00	126
01:30:00	5.4	06:15:00	5.4	11:00:00	5.7	16:00:00	5.7	20:45:00	119
01:45:00	5.4	06:30:00	5.4	11:15:00	5.7	16:15:00	6.0	21:00:00	97
02:00:00	5.4	06:45:00	5.4	11:30:00	5.4	16:30:00	6.3	21:15:00	79
02:15:00	5.4	07:00:00	5.4	11:45:00	5.4	16:45:00	6.3	21:30:00	78
02:30:00	5.4	07:15:00	5.4	12:00:00	5.4	17:00:00	6.0	21:45:00	87
02:45:00	5.4	07:30:00	5.4	12:15:00	5.4	17:15:00	6.0	22:00:00	112
03:00:00	5.4	07:45:00	5.4	12:30:00	5.4	17:30:00	5.7	22:15:00	146
03:15:00	5.4	08:00:00	5.4	12:45:00	5.4	17:45:00	5.7	22:30:00	201
03:30:00	5.4	08:15:00	5.4	13:00:00	5.4	18:00:00	7.3	22:45:00	237
03:45:00	5.4	08:30:00	5.4	13:15:00	5.7	18:15:00	6.9	23:00:00	255
04:00:00	5.4	08:45:00	5.4	13:45:00	5.4	18:30:00	8.0	23:15:00	269
04:15:00	5.4	09:00:00	5.4	14:00:00	5.4	18:45:00	14	23:30:00	274
04:30:00	5.4	09:15:00	5.4	14:15:00	5.4	19:00:00	32	23:45:00	271
04:45:00	5.4	09:30:00	5.4	14:30:00	5.4	19:15:00	35	24:00:00	263
				MAY 10, 1995					
00:15:00	240	05:15:00	57	10:15:00	35	15:15:00	28	20:15:00	22
00:30:00	210	05:30:00	55	10:30:00	34	15:30:00	28	20:30:00	22
00:45:00	179	05:45:00	53	10:45:00	34	15:45:00	27	20:45:00	22
01:00:00	151	06:00:00	51	11:00:00	33	16:00:00	27	21:00:00	22
01:15:00	100	06:15:00	49	11:15:00	33	16:15:00	27	21:15:00	22
01:30:00	119	06:30:00	48	11:30:00	32	16:30:00	26	21:30:00	22
01:45:00	106	06:45:00	47	11:45:00	32	16:45:00	26	21:45:00	22
02:00:00	100	07:00:00	45	12:00:00	32	17:00:00	26	22:00:00	22
02:15:00	93	07:15:00	44	12:15:00	32	17:15:00	26	22:15:00	21
02:30:00	92	07:30:00	43	12:30:00	31	17:30:00	25	22:30:00	21
02:45:00	93	07:45:00	42	12:45:00	31	17:45:00	25	22:45:00	21
03:00:00	92	08:00:00	41	13:00:00	31	18:00:00	24	23:00:00	21
03:15:00	92	08:15:00	40	13:15:00	30	18:15:00	24	23:15:00	21
03:30:00	91	08:30:00	39	13:30:00	28	18:30:00	24	23:30:00	21
03:45:00	86	08:45:00	38	13:45:00	30	18:45:00	24	23:45:00	30
04:00:00	78	09:00:00	38	14:00:00	29	19:00:00	24	24:00:00	28
04:15:00	72	09:15:00	37	14:15:00	29	19:15:00	24		
04:30:00	68	09:30:00	37	14:30:00	29	19:30:00	23		
04:45:00	64	09:45:00	36	14:45:00	29	19:45:00	23		
05:00:00	61	10:00:00	35	15:00:00	29	20:00:00	23		

TENNESSEE RIVER BASIN

FLOOD-HYDROGRAPH STATION

03495957 WHITES CREEK AT NORA ROAD, AT KNOXVILLE, TN

LOCATION.--Lat 36°01'21", long 83°54'52", Knox County, Hydrologic Unit 0601201, on left fownstream wingwall of bridge on Nora Road, and at mile 0.6.

DRAINAGE AREA.--9.51 mi².

PERIOD OF RECORD.--April 1990 to September 1992. Flood hydrograph, October 1992 to September 1995 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 948.46 ft above sea level.

MAXIMUM FOR PERIOD OF RECORD.--Maximum discharge, 699 ft³/s, Feb. 11, 1994, gage height, 7.44 ft.

MAXIMUM FOR CURRENT YEAR.--Maximum discharge, 160 ft³/s, Mar. 8, gage height, 4.46 ft.

UNIT DISCHARGE (CUBIC FEET/SECOND)

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
				MARCH 8, 1995					
00:15:00	14	05:15:00	34	10:15:00	102	15:15:00	158	20:15:00	99
00:30:00	14	05:30:00	43	10:30:00	105	15:30:00	155	20:30:00	95
00:45:00	14	05:45:00	51	10:45:00	109	15:45:00	154	20:45:00	93
01:00:00	14	06:00:00	57	11:00:00	113	16:00:00	153	21:00:00	89
01:15:00	14	06:15:00	62	11:15:00	117	16:15:00	153	21:15:00	85
01:30:00	14	06:30:00	66	11:30:00	122	16:30:00	151	21:30:00	82
01:45:00	14	06:45:00	70	11:45:00	126	16:45:00	147	21:45:00	78
02:00:00	14	07:00:00	73	12:00:00	132	17:00:00	143	22:00:00	75
02:15:00	14	07:15:00	75	12:15:00	137	17:15:00	142	22:15:00	72
02:30:00	14	07:30:00	77	12:30:00	142	17:30:00	137	22:30:00	67
02:45:00	14	07:45:00	79	12:45:00	144	17:45:00	134	22:45:00	64
03:00:00	14	08:00:00	81	13:00:00	148	18:00:00	130	23:00:00	62
03:15:00	14	08:15:00	83	13:15:00	151	18:15:00	127	23:15:00	60
03:30:00	14	08:30:00	85	13:30:00	154	18:30:00	123	23:30:00	57
03:45:00	15	08:45:00	87	13:45:00	155	18:45:00	118	23:45:00	56
04:00:00	16	09:00:00	90	14:00:00	156	19:00:00	116	24:00:00	55
04:15:00	17	09:15:00	91	14:15:00	158	19:15:00	112		
04:30:00	18	09:30:00	93	14:30:00	157	19:30:00	109		
04:45:00	21	09:45:00	95	14:45:00	160	19:45:00	105		
05:00:00	26	10:00:00	99	15:00:00	159	20:00:00	102		

LOOSAHATCHIE RIVER BASIN

FLOOD-HYDROGRAPH STATION

The stage discharge, and water-quality data from the Beaver Creek watershed listed on the following 21 pages are larger storms collected between 1990 and 1995. Additional data for smaller events are available upon request in either paper or electronic copy. For more information please write:

District Chief
810 Broadway, Suite 500
Suite 500
Nashville, TN 37203

Memphis Subdistrict Chief
7777 Walnut Grove Blvd.
Suite LLB2
Memphis, TN 38120

07030241 EAST BEAVER CREEK CANAL TRIBUTARY AT TRITT FARM NEAR KEELING, TN

LOCATION.--Lat 35°25'56", long 89°29'16", Tipton County, Hydrologic Unit 08010209, at culvert on U.S. Highway 70, 79, 2.9 mi northeast of Mason, 0.9 mi southwest of Keeling.

DRAINAGE AREA.--0.04 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1990 to August 1995.

GAGE.--Water stage recorder. Datum of gage 380.00 ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90 ft^3/s, June 13, 1990, gage height, 5.84.

EXTREMES FOR CURRENT PERIOD.--Water Year 1992: Maximum discharge, 46 ft^3/s, June 3, gage height, 5.26 ft.

Water Year 1993: Maximum discharge, 74 ft^3/s, April 30, gage height, 5.66 ft.

Water Year 1994: Maximum discharge, 45 ft^3/s, Mar. 24, gage height, 5.24 ft.

Water Year 1995: Maximum discharge, 52 ft^3/s, June 6, gage height, 5.36 ft.

LOOSAHATCHIE RIVER BASIN

FLOOD-HYDROGRAPH STATION

07030241 EAST BEAVER CREEK CANAL TRIBUTARY AT TRITT FARM NEAR KEELING, TN-Continued

UNIT DISCHARGE (CUBIC FEET/SECOND)

JUNE 3, 1992

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
01:00:00	.01	04:20:00	.26	05:52:00	1.6	07:27:00	3.4	10:40:00	.07
01:50:00	.01	04:21:00	.36	05:55:00	1.9	07:29:00	3.0	10:45:00	.07
01:59:00	.01	04:24:00	.30	05:56:00	2.2	07:30:00	3.0	10:50:00	.06
02:00:00	.01	04:25:00	.30	05:58:00	2.2	07:31:00	3.0	10:55:00	.05
02:02:00	.01	04:26:00	.30	06:00:00	1.9	07:32:00	3.0	11:00:00	.05
02:06:00	.01	04:27:00	.30	06:01:00	1.8	07:33:00	3.0	11:05:00	.05
02:10:00	.01	04:30:00	.36	06:02:00	2.0	07:34:00	3.0	12:00:00	.01
02:13:00	.01	04:33:00	.42	06:04:00	2.8	07:35:00	3.3	13:00:00	.01
02:17:00	.01	04:35:00	.52	06:05:00	2.1	07:36:00	3.3	14:00:00	.01
02:21:00	.01	04:36:00	.52	06:06:00	3.1	07:37:00	3.3	15:00:00	.01
02:25:00	.01	04:37:00	.52	06:07:00	3.1	07:39:00	3.9	16:00:00	.01
02:27:00	.01	04:38:00	.60	06:08:00	3.1	07:40:00	4.5	17:00:00	.01
02:28:00	.01	04:39:00	.60	06:09:00	3.6	07:43:00	4.5	18:00:00	.01
02:29:00	.01	04:40:00	.68	06:10:00	3.6	07:44:00	4.5	19:00:00	.01
02:30:00	.01	04:41:00	.88	06:12:00	3.6	07:45:00	4.5	20:00:00	.01
02:31:00	.01	04:42:00	1.1	06:14:00	4.1	07:46:00	4.5	21:00:00	.01
02:32:00	.01	04:43:00	1.5	06:15:00	4.1	07:47:00	4.5	22:00:00	.01
02:33:00	.01	04:44:00	2.0	06:16:00	4.1	07:49:00	4.3	22:12:00	.01
02:34:00	.01	04:45:00	2.7	06:17:00	4.1	07:50:00	4.3	22:13:00	.01
02:35:00	.01	04:46:00	3.3	06:18:00	4.1	07:52:00	4.3	22:17:00	.01
02:36:00	.01	04:47:00	3.3	06:20:00	3.9	07:54:00	4.3	22:23:00	.52
02:37:00	.88	04:48:00	4.9	06:21:00	3.9	07:55:00	4.3	22:24:00	.73
02:40:00	2.0	04:49:00	7.6	06:22:00	3.9	07:57:00	4.3	22:25:00	1.5
02:44:00	2.0	04:50:00	19	06:24:00	3.9	07:59:00	4.3	22:26:00	2.6
02:45:00	2.0	04:51:00	29	06:25:00	3.9	08:00:00	4.3	22:27:00	5.1
02:48:00	2.0	04:52:00	34	06:26:00	3.4	08:02:00	4.3	22:28:00	9.2
02:50:00	1.7	04:53:00	34	06:29:00	3.4	08:05:00	3.9	22:29:00	13
02:52:00	1.1	04:54:00	34	06:30:00	3.4	08:09:00	3.1	22:30:00	16
02:55:00	1.1	04:55:00	34	06:31:00	3.4	08:10:00	3.0	22:31:00	18
02:56:00	1.1	04:56:00	36	06:35:00	3.1	08:12:00	2.7	22:32:00	20
03:00:00	.73	04:57:00	42	06:36:00	2.8	08:15:00	2.3	22:33:00	22
03:01:00	.73	04:58:00	42	06:37:00	2.8	08:18:00	2.1	22:34:00	22
03:05:00	.60	04:59:00	42	06:39:00	2.5	08:20:00	2.1	22:35:00	22
03:08:00	.52	05:00:00	44	06:40:00	2.5	08:21:00	2.1	22:36:00	22
03:10:00	.46	05:01:00	46	06:41:00	2.5	08:23:00	2.3	22:37:00	22
03:14:00	.33	05:02:00	46	06:42:00	2.5	08:25:00	2.4	22:38:00	22
03:15:00	.33	05:03:00	46	06:45:00	2.5	08:30:00	2.4	22:39:00	22
03:16:00	.33	05:04:00	46	06:46:00	2.5	08:35:00	2.4	22:40:00	19
03:19:00	.26	05:05:00	46	06:48:00	2.5	08:40:00	3.3	22:45:00	9.2
03:20:00	.26	05:06:00	41	06:50:00	2.5	08:45:00	4.3	22:47:00	7.4
03:22:00	.23	05:07:00	41	06:51:00	2.7	08:48:00	4.3	22:50:00	6.2
03:25:00	.21	05:08:00	41	06:54:00	2.7	08:50:00	4.9	22:52:00	5.3
03:26:00	.21	05:09:00	41	06:55:00	2.7	08:53:00	4.9	22:55:00	4.1
03:29:00	.16	05:10:00	41	06:56:00	2.7	08:55:00	4.9	23:00:00	2.3
03:30:00	.19	05:12:00	30	06:57:00	2.7	09:00:00	4.9	23:05:00	1.7
03:32:00	.19	05:13:00	26	06:59:00	2.7	09:05:00	2.7	23:10:00	1.3
03:33:00	.19	05:15:00	22	07:00:00	2.7	09:10:00	1.5	23:15:00	.94
03:34:00	.19	05:16:00	19	07:03:00	2.7	09:15:00	1.1	23:20:00	.78
03:35:00	.19	05:17:00	17	07:04:00	2.8	09:20:00	.78	23:24:00	.68
03:36:00	.21	05:20:00	14	07:05:00	3.3	09:25:00	.60	23:25:00	.73
03:38:00	.30	05:21:00	11	07:07:00	3.3	09:30:00	.46	23:30:00	.64
03:40:00	.46	05:23:00	9.4	07:09:00	4.1	09:35:00	.39	23:32:00	.73
03:41:00	.56	05:25:00	7.2	07:10:00	4.1	09:40:00	.36	23:35:00	.88
03:42:00	.68	05:29:00	5.3	07:11:00	4.1	09:45:00	.30	23:36:00	1.1
03:43:00	.83	05:30:00	4.3	07:12:00	4.1	09:50:00	.26	23:40:00	2.0
03:44:00	1.1	05:35:00	2.7	07:14:00	4.1	09:55:00	.23	23:43:00	2.4
03:45:00	1.3	05:40:00	1.8	07:15:00	4.1	10:00:00	.19	23:45:00	2.4
03:46:00	1.6	05:41:00	1.6	07:16:00	4.1	10:05:00	.19	23:50:00	2.1
03:50:00	3.1	05:43:00	1.5	07:18:00	4.1	10:10:00	.16	23:52:00	2.1
03:55:00	2.6	05:45:00	1.5	07:20:00	4.1	10:15:00	.15	23:55:00	2.1
04:00:00	1.3	05:47:00	1.5	07:22:00	4.1	10:20:00	.13	23:58:00	2.1
04:05:00	.68	05:48:00	1.5	07:24:00	4.1	10:25:00	.11	24:00:00	2.1
04:10:00	.50	05:50:00	1.5	07:25:00	3.8	10:30:00	.10		
04:15:00	.39	05:51:00	1.5	07:26:00	3.8	10:35:00	.07		

LOOSAHATCHIE RIVER BASIN

FLOOD-HYDROGRAPH STATION

07030241 EAST BEAVER CREEK CANAL TRIBUTARY AT TRITT FARM NEAR KEELING, TN--Continued

UNIT DISCHARGE (CUBIC FEET/SECOND)

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
				APRIL 30, 1993					
00:01:00	.00	05:00:00	.00	10:00:00	.00	13:22:00	.00	14:05:00	64
00:15:00	.00	05:15:00	.00	10:15:00	.00	13:23:00	.00	14:06:00	59
00:30:00	.00	05:30:00	.00	10:30:00	.00	13:24:00	.00	14:07:00	54
00:45:00	.00	05:45:00	.00	10:45:00	.00	13:25:00	.00	14:08:00	50
01:00:00	.00	06:00:00	.00	11:00:00	.00	13:26:00	.00	14:09:00	1.5
01:15:00	.00	06:15:00	.00	11:15:00	.00	13:27:00	.00	14:10:00	30
01:30:00	.00	06:30:00	.00	11:30:00	.00	13:28:00	.00	14:11:00	44
01:45:00	.00	06:45:00	.00	11:45:00	.00	13:29:00	.00	14:12:00	53
02:00:00	.00	07:00:00	.00	12:00:00	.00	13:30:00	.00	14:13:00	53
02:15:00	.00	07:15:00	.00	12:15:00	.00	13:31:00	.00	14:14:00	52
02:30:00	.00	07:30:00	.00	12:30:00	.00	13:32:00	.00	15:00:00	.00
02:45:00	.00	07:45:00	.00	12:45:00	.00	13:33:00	.00	16:00:00	.00
03:00:00	.00	08:00:00	.00	13:00:00	.00	13:34:00	.00	17:00:00	.00
03:15:00	.00	08:15:00	.00	13:15:00	.00	13:35:00	.00	18:00:00	.00
03:30:00	.00	08:30:00	.00	13:16:00	.00	13:36:00	.00	19:00:00	.00
03:45:00	.00	08:45:00	.00	13:17:00	.00	14:00:00	1.1	20:00:00	.00
04:00:00	.00	09:00:00	.00	13:18:00	.00	14:01:00	57	21:00:00	.00
04:15:00	.00	09:15:00	.00	13:19:00	.00	14:02:00	69	22:00:00	.00
04:30:00	.00	09:30:00	.00	13:20:00	.00	14:03:00	74	23:00:00	.00
04:45:00	.00	09:45:00	.00	13:21:00	.00	14:04:00	68	24:00:00	.00
				MARCH 24, 1994					
01:00:00	.00	08:30:00	45	12:30:00	.11	16:30:00	.07	21:30:00	.78
02:00:00	.00	09:00:00	6.7	13:00:00	.16	17:00:00	.04	22:00:00	1.2
03:00:00	.00	09:30:00	2.3	13:30:00	.19	17:30:00	.03	22:30:00	.88
04:00:00	.00	10:00:00	.88	14:00:00	.23	18:00:00	.02	23:00:00	.68
05:00:00	.00	10:30:00	.52	14:30:00	.23	18:30:00	.01	23:30:00	.50
06:00:00	.00	11:00:00	.33	15:00:00	.19	19:00:00	.00	24:00:00	.33
07:00:00	.00	11:30:00	.19	15:30:00	.13	20:00:00	.00		
08:00:00	.00	12:00:00	.11	16:00:00	.10	21:00:00	.33		
				MARCH 25, 1994					
00:30:00	.23	04:00:00	.02	08:00:00	.00	15:00:00	.00	22:00:00	.00
01:00:00	.16	04:30:00	.01	09:00:00	.00	16:00:00	.00	23:00:00	.00
01:30:00	.11	05:00:00	.01	10:00:00	.00	17:00:00	.00	24:00:00	.00
02:00:00	.08	05:30:00	.01	11:00:00	.00	18:00:00	.00		
02:30:00	.06	06:00:00	.01	12:00:00	.00	19:00:00	.00		
03:00:00	.04	06:30:00	.00	13:00:00	.00	20:00:00	.00		
03:30:00	.03	07:00:00	.00	14:00:00	.00	21:00:00	.00		
				JUNE 6, 1995					
01:00:00	.00	14:16:00	4.3	15:04:00	28	17:10:00	.19	19:55:00	.30
02:00:00	.00	14:17:00	4.3	15:05:00	25	17:15:00	.16	20:00:00	.26
03:00:00	.00	14:18:00	4.5	15:06:00	23	17:20:00	.15	20:05:00	.23
04:00:00	.00	14:19:00	4.7	15:07:00	21	17:25:00	.13	20:10:00	.21
05:00:00	.00	14:20:00	4.7	15:08:00	18	17:30:00	.13	20:15:00	.19
06:00:00	.00	14:21:00	4.9	15:09:00	17	17:35:00	.11	20:20:00	.16
07:00:00	.00	14:22:00	5.1	15:10:00	14	17:40:00	.11	20:25:00	.15
08:00:00	.00	14:23:00	5.5	15:11:00	13	17:45:00	.10	20:30:00	.15
09:00:00	.00	14:24:00	6.0	15:12:00	12	17:50:00	.10	20:35:00	.13
10:00:00	.00	14:25:00	6.7	15:13:00	11	17:55:00	.08	20:40:00	.13
11:00:00	.00	14:26:00	7.6	15:14:00	9.4	18:00:00	.08	20:45:00	.11
12:00:00	.00	14:27:00	7.9	15:15:00	8.4	18:01:00	.08	20:50:00	.10
13:00:00	.00	14:28:00	9.7	15:16:00	7.6	18:02:00	.08	20:55:00	.10
13:16:00	.00	14:29:00	11	15:19:00	6.7	18:03:00	.10	21:00:00	.08
13:25:00	.00	14:30:00	13	15:20:00	6.9	18:05:00	.15	21:05:00	.08
13:26:00	.00	14:31:00	15	15:21:00	6.0	18:06:00	.21	21:10:00	.07
13:27:00	.00	14:34:00	17	15:24:00	4.7	18:07:00	.30	21:15:00	.07
13:28:00	.00	14:35:00	18	15:25:00	4.7	18:08:00	.39	21:20:00	.06
13:29:00	.00	14:38:00	19	15:26:00	3.9	18:10:00	.52	21:25:00	.06
13:30:00	.00	14:39:00	20	15:30:00	3.1	18:15:00	.64	21:30:00	.05
13:31:00	.00	14:40:00	22	15:35:00	2.4	18:20:00	.73	21:35:00	.05
13:32:00	.01	14:41:00	24	15:40:00	1.9	18:25:00	.83	21:40:00	.05
13:33:00	.06	14:42:00	27	15:45:00	1.5	18:30:00	.88	21:45:00	.04
13:34:00	1.1	14:43:00	28	15:50:00	1.3	18:35:00	.94	21:50:00	.04
13:35:00	3.1	14:44:00	34	15:55:00	1.0	18:40:00	1.0	21:55:00	.03
13:36:00	4.3	14:45:00	41	16:00:00	.88	18:45:00	1.1	22:00:00	.03
13:37:00	3.1	14:46:00	44	16:05:00	.78	18:50:00	1.1	22:05:00	.03
13:39:00	3.1	14:47:00	46	16:10:00	.68	18:55:00	1.1	22:10:00	.03
13:40:00	3.1	14:48:00	48	16:15:00	.60	19:00:00	.88	22:15:00	.03
13:45:00	3.6	14:49:00	50	16:20:00	.56	19:05:00	.83	22:20:00	.03
13:50:00	4.1	14:50:00	52	16:25:00	.50	19:10:00	.73	22:25:00	.02
13:55:00	4.5	14:55:00	50	16:30:00	.42	19:15:00	.64	22:30:00	.02
13:59:00	5.1	14:57:00	47	16:35:00	.39	19:20:00	.60	22:35:00	.02
14:00:00	5.1	14:58:00	45	16:40:00	.36	19:25:00	.52	22:40:00	.01
14:05:00	6.0	14:59:00	43	16:45:00	.30	19:30:00	.50	22:45:00	.01
14:08:00	4.9	15:00:00	41	16:50:00	.26	19:35:00	.42	22:50:00	.01
14:10:00	4.9	15:01:00	38	16:55:00	.23	19:40:00	.39	22:55:00	.01
14:14:00	4.3	15:02:00	35	17:00:00	.21	19:45:00	.36	23:00:00	.01
14:15:00	4.3	15:03:00	32	17:05:00	.19	19:50:00	.33	24:00:00	.00

LOOSAHATCHIE RIVER BASIN

07030241 - EAST BEAVER CREEK CANAL TRIBUTARY AT TRITT FARM NEAR KEELING, TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1990 to November 1993 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS ORGANIC TOTAL (MG/L AS P)
JUN									
03...	0440	80020	1.20	0.240	1.1	2.3	10	0.740	0.62
03...	0445	80020	0.990	0.300	1.2	2.2	9.7	0.690	0.61
03...	0450	80020	1.10	0.560	1.3	2.4	11	0.440	0.36
03...	0500	80020	1.20	0.470	0.90	2.1	9.3	0.320	0.25
03...	0505	80020	1.30	0.470	2.0	3.3	15	1.50	1.4
03...	0515	80020	1.30	0.420	2.4	3.7	16	1.80	1.7
03...	0520	80020	1.20	0.360	2.3	3.5	15	2.00	1.9
03...	0525	80020	1.20	0.330	0.60	1.8	8.0	0.300	0.22
03...	0530	80020	1.20	0.300	0.90	2.1	9.3	0.610	0.53
03...	0535	80020	1.20	0.270	0.60	1.8	8.0	0.380	0.29
03...	0540	80020	1.10	0.250	0.90	2.0	8.9	0.900	0.80
03...	0545	80020	1.10	0.250	1.0	2.1	9.3	0.830	0.73
03...	0550	80020	1.30	0.260	1.7	3.0	13	1.50	1.4
03...	0555	80020	1.30	0.290	0.70	2.0	8.9	0.360	0.27
03...	0600	80020	1.10	0.270	1.1	2.2	9.7	0.870	0.76
03...	0605	80020	1.10	0.270	1.0	2.1	9.3	0.740	0.64
03...	0610	80020	1.00	0.290	1.0	2.0	8.9	0.680	0.58
03...	0615	80020	0.960	0.280	0.90	1.9	8.2	0.630	0.53
03...	0620	80020	0.920	0.280	0.80	1.7	7.6	0.620	0.52
03...	0625	80020	0.890	0.270	1.3	2.2	9.7	0.640	0.54
03...	0630	80020	0.850	0.260	0.70	1.6	6.9	0.390	0.29
03...	0635	80020	0.860	0.260	0.80	1.7	7.3	0.600	0.50
03...	0710	80020	0.740	0.240	0.70	1.4	6.4	0.540	0.46
03...	0715	80020	0.700	0.220	2.4	3.1	14	2.00	1.9
03...	0720	80020	0.650	0.240	2.1	2.8	12	1.90	1.8
03...	0725	80020	0.650	0.220	1.0	1.7	7.3	0.840	0.74
03...	0730	80020	0.660	0.210	1.0	1.7	7.3	0.960	0.86
03...	0735	80020	0.640	0.190	1.2	1.8	8.1	1.20	1.1
03...	0740	80020	0.610	0.220	1.6	2.2	9.8	1.50	1.4
03...	0745	80020	0.640	0.230	1.0	1.6	7.3	0.870	0.76
03...	0750	80020	0.580	0.210	1.3	1.9	8.3	1.20	1.1
03...	0755	80020	0.580	0.210	2.1	2.7	12	1.90	1.8
03...	0800	80020	0.570	0.200	1.2	1.8	7.8	1.10	1.0
03...	0805	80020	0.570	0.200	1.1	1.7	7.4	1.10	1.0
03...	0810	80020	0.650	0.190	1.6	2.3	10	1.60	1.5
03...	0815	80020	0.620	0.180	1.0	1.6	7.2	1.10	0.99
03...	0820	80020	0.630	0.180	1.1	1.7	7.7	1.10	0.99
03...	0825	80020	0.650	0.190	0.80	1.4	6.4	0.750	0.64
03...	0830	80020	0.610	0.190	1.2	1.8	8.0	1.10	0.99
03...	0835	80020	0.580	0.180	1.8	2.4	11	1.60	1.5
03...	0840	80020	0.590	0.230	0.90	1.5	6.6	0.680	0.60
03...	0845	80020	0.560	0.230	1.1	1.7	7.3	1.10	1.0
03...	0850	80020	0.590	0.250	1.0	1.6	7.0	0.800	0.72
03...	0855	80020	0.540	0.290	1.5	2.0	9.0	1.20	1.1

LOOSAHATCHIE RIVER BASIN

FLOOD-HYDROGRAPH STATION

07030242 EAST BEAVER CREEL CANAL TRIBUTARY AT WILLIAMS FARM NEAR BELMONT, TN

LOCATION.--Lat 35°23'35", long 89°30'33", Fayette County, Hydrologic Unit 08010209, a culvert on county road, 2.0 mi southeast of the intersection of U.S. Highways 70, 79, and 59 west in Mason and 0.7 mi south of the Tipton-Fayette county line.

DRAINAGE AREA.--0.17 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1990 to August 1995 (discontinued).

GAGE.--Water stage recorder. Datum of gage 310 ft above sea level, from topographic map.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 268 ft³/s, Mar. 18, 1992, gage height, 7.55 ft.

EXTREMES FOR CURRENT PERIOD.--Water Year 1992: Maximum discharge, 268 ft³/s, Mar. 18, gage height 7.55 ft.

Water Year 1993: Maximum discharge, 77 ft³/s, Aug. 5, gage height 5.45 ft.

Water Year 1994: Maximum discharge 184 ft³/s, May 13, gage height 6.73 ft.

Water Year 1995: Maximum discharge 199 ft³/s, May 18, gage height 6.89 ft.

UNIT DISCHARGE (CUBIC FEET/SECOND)

MARCH 18, 1992

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
01:00:00	.11	05:40:00	1.3	10:20:00	94	15:00:00	.70	19:40:00	.34
01:05:00	.11	05:45:00	1.3	10:25:00	84	15:05:00	.70	19:45:00	.34
01:10:00	.11	05:50:00	2.1	10:30:00	70	15:10:00	.70	19:50:00	.34
01:15:00	.14	05:55:00	3.4	10:35:00	58	15:15:00	.70	19:55:00	.34
01:20:00	.14	06:00:00	7.2	10:40:00	44	15:20:00	.70	20:00:00	.34
01:25:00	.18	06:05:00	14	10:45:00	30	15:25:00	.70	20:05:00	.34
01:30:00	.22	06:10:00	19	10:50:00	16	15:30:00	.70	20:10:00	.34
01:35:00	.28	06:15:00	21	10:55:00	6.6	15:35:00	.70	20:15:00	.34
01:40:00	.34	06:20:00	23	11:00:00	3.9	15:40:00	.59	20:20:00	.28
01:45:00	.34	06:25:00	26	11:05:00	3.3	15:45:00	.59	20:25:00	.28
01:50:00	.34	06:30:00	29	11:10:00	3.1	15:50:00	.59	20:30:00	.28
01:55:00	.41	06:35:00	32	11:15:00	2.9	15:55:00	.59	20:35:00	.28
02:00:00	.41	06:40:00	34	11:20:00	2.6	16:00:00	.59	20:40:00	.28
02:05:00	.49	06:45:00	40	11:25:00	2.6	16:05:00	.59	20:45:00	.28
02:10:00	.59	06:50:00	44	11:30:00	2.4	16:10:00	.59	20:50:00	.28
02:15:00	.70	06:55:00	45	11:35:00	2.3	16:15:00	.59	20:55:00	.28
02:20:00	.88	07:00:00	47	11:40:00	2.1	16:20:00	.49	21:00:00	.28
02:25:00	.98	07:05:00	51	11:45:00	2.1	16:25:00	.49	21:05:00	.28
02:30:00	1.3	07:10:00	54	11:50:00	2.0	16:30:00	.49	21:10:00	.28
02:35:00	1.5	07:15:00	57	11:55:00	2.0	16:35:00	.49	21:15:00	.28
02:40:00	1.7	07:20:00	57	12:00:00	1.9	16:40:00	.49	21:20:00	.28
02:45:00	2.1	07:25:00	56	12:05:00	1.9	16:45:00	.49	21:25:00	.28
02:50:00	2.4	07:30:00	54	12:10:00	1.7	16:50:00	.49	21:30:00	.28
02:55:00	3.1	07:35:00	59	12:15:00	1.7	16:55:00	.49	21:35:00	.28
03:00:00	3.9	07:40:00	66	12:20:00	1.6	17:00:00	.49	21:40:00	.28
03:05:00	4.5	07:45:00	77	12:25:00	1.6	17:05:00	.49	21:45:00	.28
03:10:00	5.3	07:50:00	88	12:30:00	1.5	17:10:00	.49	21:50:00	.28
03:15:00	6.1	07:55:00	99.9	12:35:00	1.5	17:15:00	.49	21:55:00	.28
03:20:00	6.1	08:00:00	119	12:40:00	1.4	17:20:00	.41	22:00:00	.28
03:25:00	5.6	08:05:00	133	12:45:00	1.4	17:25:00	.41	22:05:00	.28
03:30:00	4.5	08:10:00	148	12:50:00	1.4	17:30:00	.41	22:10:00	.28
03:35:00	3.9	08:15:00	156	12:55:00	1.3	17:35:00	.41	22:15:00	.28
03:40:00	3.4	08:20:00	156	13:00:00	1.3	17:40:00	.41	22:20:00	.28
03:45:00	2.9	08:25:00	156	13:05:00	1.3	17:45:00	.41	22:25:00	.28
03:50:00	2.7	08:30:00	170	13:10:00	1.3	17:50:00	.41	22:30:00	.28
03:55:00	2.3	08:35:00	174	13:15:00	1.2	17:55:00	.41	22:35:00	.28
04:00:00	2.1	08:40:00	195	13:20:00	1.2	18:00:00	.41	22:40:00	.28
04:05:00	2.0	08:45:00	224	13:25:00	1.2	18:05:00	.41	22:45:00	.28
04:10:00	1.7	08:50:00	253	13:30:00	1.1	18:10:00	.41	22:50:00	.28
04:15:00	1.6	08:55:00	268	13:35:00	1.1	18:15:00	.41	22:55:00	.28
04:20:00	1.6	09:00:00	252	13:40:00	1.1	18:20:00	.41	23:00:00	.28
04:25:00	1.6	09:05:00	234	13:45:00	1.1	18:25:00	.41	23:05:00	.22
04:30:00	1.5	09:10:00	209	13:50:00	.98	18:30:00	.41	23:10:00	.22
04:35:00	1.5	09:15:00	189	13:55:00	.98	18:35:00	.34	23:15:00	.22
04:40:00	1.5	09:20:00	179	14:00:00	.98	18:40:00	.34	23:20:00	.22
04:45:00	1.6	09:25:00	175	14:05:00	.98	18:45:00	.34	23:25:00	.22
04:50:00	1.6	09:30:00	166	14:10:00	.98	18:50:00	.34	23:30:00	.22
04:55:00	1.6	09:35:00	159	14:15:00	.88	18:55:00	.34	23:35:00	.22
05:00:00	1.6	09:40:00	151	14:20:00	.88	19:00:00	.34	23:40:00	.22
05:05:00	1.6	09:45:00	147	14:25:00	.88	19:05:00	.34	23:45:00	.22
05:10:00	1.6	09:50:00	141	14:30:00	.88	19:10:00	.34	23:50:00	.22
05:15:00	1.6	09:55:00	134	14:35:00	.88	19:15:00	.34	23:55:00	.22
05:20:00	1.6	10:00:00	130	14:40:00	.78	19:20:00	.34	24:00:00	.22
05:25:00	1.5	10:05:00	123	14:45:00	.78	19:25:00	.34		
05:30:00	1.5	10:10:00	114	14:50:00	.78	19:30:00	.34		
05:35:00	1.4	10:15:00	104	14:55:00	.78	19:35:00	.34		

LOOSAHATCHIE RIVER BASIN

FLOOD-HYDROGRAPH STATION

07030242 EAST BEAVER CREEL CANAL TRIBUTARY AT WILLIAMS FARM NEAR BELMONT, TN--Continued

UNIT DISCHARGE (CUBIC FEET/SECOND)

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
				AUGUST 5, 1993					
01:00:00	.05	09:00:00	.05	17:00:00	.04	20:30:00	21	22:30:00	2.4
02:00:00	.05	10:00:00	.05	18:00:00	.04	20:45:00	14	22:45:00	2.1
03:00:00	.05	11:00:00	.05	19:00:00	.04	21:00:00	9.2	23:00:00	2.0
04:00:00	.05	12:00:00	.05	19:15:00	2.1	21:15:00	6.6	23:15:00	1.9
05:00:00	.05	13:00:00	.05	19:30:00	34	21:30:00	5.0	23:30:00	1.7
06:00:00	.05	14:00:00	.05	19:45:00	77	21:45:00	3.9	23:45:00	1.7
07:00:00	.05	15:00:00	.05	20:00:00	58	22:00:00	3.3	24:00:00	1.6
08:00:00	.05	16:00:00	.04	20:15:00	33	22:15:00	2.7		
				MAY 13, 1994					
01:00:00	.04	10:31:00	184	14:00:00	2.7	17:30:00	.70	21:00:00	.28
02:00:00	.05	10:45:00	144	14:15:00	2.4	17:45:00	.70	21:15:00	.28
03:00:00	.05	11:00:00	77	14:30:00	2.1	18:00:00	.59	21:30:00	.28
04:00:00	.05	11:15:00	34	14:45:00	2.0	18:15:00	.49	21:45:00	.28
05:00:00	.05	11:30:00	19	15:00:00	1.7	18:30:00	.49	22:00:00	.28
06:00:00	.05	11:45:00	13	15:15:00	1.6	18:45:00	.49	22:15:00	.22
07:00:00	.07	12:00:00	9.9	15:30:00	1.5	19:00:00	.41	22:30:00	.22
08:00:00	.07	12:15:00	8.2	15:45:00	1.3	19:15:00	.41	22:45:00	.22
09:00:00	.05	12:30:00	7.2	16:00:00	1.2	19:30:00	.41	23:00:00	.22
09:30:00	.41	12:45:00	6.1	16:15:00	1.1	19:45:00	.34	23:15:00	.22
09:45:00	2.3	13:00:00	5.0	16:30:00	.98	20:00:00	.34	23:30:00	.22
10:00:00	34	13:15:00	4.3	16:45:00	.98	20:15:00	.34	23:45:00	.22
10:15:00	140	13:30:00	3.6	17:00:00	.88	20:30:00	.34	24:00:00	.18
10:30:00	183	13:45:00	3.1	17:15:00	.78	20:45:00	.3		
				MAY 18, 1995					
00:15:00	.00	05:15:00	.00	10:00:00	30	15:00:00	66	20:00:00	1.5
00:30:00	.00	05:30:00	.00	10:15:00	22	15:15:00	45	20:15:00	1.4
00:45:00	.00	05:45:00	.00	10:30:00	12	15:30:00	28	20:30:00	1.4
01:00:00	.00	06:00:00	.00	10:45:00	6.6	15:45:00	20	20:45:00	1.3
01:15:00	.00	06:15:00	.00	11:00:00	5.3	16:00:00	14	21:00:00	1.2
01:30:00	.00	06:30:00	.00	11:15:00	4.3	16:15:00	10	21:15:00	1.4
01:45:00	.00	06:45:00	.00	11:30:00	3.9	16:30:00	8.2	21:30:00	1.7
02:00:00	.00	07:00:00	.00	11:45:00	3.4	16:45:00	6.4	21:45:00	9.9
02:15:00	.00	07:15:00	.00	12:00:00	3.1	17:00:00	5.3	22:00:00	9.9
02:30:00	.00	07:30:00	.00	12:15:00	2.7	17:15:00	4.5	22:15:00	7.2
02:45:00	.00	07:45:00	.00	12:30:00	2.6	17:30:00	3.9	22:30:00	5.3
03:00:00	.00	08:00:00	.00	12:45:00	2.3	17:45:00	3.4	22:45:00	4.1
03:15:00	.00	08:15:00	.00	13:00:00	2.1	18:00:00	3.1	23:00:00	3.4
03:30:00	.00	08:30:00	4.5	13:15:00	2.0	18:15:00	2.7	23:15:00	2.9
03:45:00	.00	08:45:00	108	13:30:00	1.9	18:30:00	2.4	23:30:00	2.6
04:00:00	.00	09:00:00	197	13:45:00	1.7	18:45:00	2.3	23:45:00	2.3
04:15:00	.00	09:05:00	199	14:00:00	1.6	19:00:00	2.1	24:00:00	2.0
04:30:00	.00	09:15:00	156	14:15:00	1.6	19:15:00	1.9		
04:45:00	.00	09:30:00	70	14:30:00	1.6	19:30:00	1.7		
05:00:00	.00	09:45:00	40	14:45:00	5.0	19:45:00	1.6		

LOOSAHATCHIE RIVER BASIN

07030242 - EAST BEAVER CREEK CANAL TRIBUTARY AT WILLIAMS FARM NEAR BELMONT, TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1990 to November 1993 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)
MAR									
18...	0535	80020	--	<0.010	--	0.370	0.370	<0.010	0.04
18...	0500	80020	--	<0.010	--	0.240	0.240	0.010	0.04
18...	0510	80020	--	<0.010	--	0.260	0.260	0.010	0.04
18...	0415	80020	--	<0.010	--	0.210	0.210	0.010	0.03
18...	0540	80020	--	<0.010	--	0.340	0.340	0.020	0.03
18...	0445	80020	--	<0.010	--	0.260	0.260	0.020	0.06
18...	0425	80020	--	<0.010	--	0.200	0.200	0.010	0.04
18...	0250	80020	--	--	--	0.510	--	<0.010	--
18...	0530	80020	--	--	--	0.410	--	<0.010	--
18...	0230	80020	0.470	0.010	0.03	0.480	0.480	0.020	0.04
18...	0300	80020	--	<0.010	--	0.380	0.380	<0.010	0.03
18...	0330	80020	--	<0.010	--	0.280	0.280	<0.010	0.03
18...	0335	80020	--	<0.010	--	0.260	0.260	0.010	0.04
18...	0345	80020	--	<0.010	--	0.230	0.230	<0.010	0.03

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	PHOSPHORUS ORGANIC TOTAL (MG/L AS P)
MAR									
18...	0.37	0.030	3.4	3.8	17	2.00	0.040	0.020	--
18...	0.47	0.030	2.8	3.1	14	1.60	0.050	0.030	1.6
18...	0.57	0.030	3.1	3.4	15	1.70	0.050	0.030	1.7
18...	0.38	0.020	3.3	3.5	16	1.80	0.020	0.020	--
18...	0.48	0.020	3.0	3.4	15	1.70	0.060	0.030	--
18...	0.55	0.050	1.8	2.0	9.0	0.790	0.050	0.030	0.77
18...	0.57	0.030	2.4	2.6	12	1.20	0.030	0.020	1.2
18...	--	--	3.6	4.1	18	1.90	--	--	--
18...	--	--	3.6	4.0	18	2.00	--	--	--
18...	0.57	0.030	2.9	3.4	15	1.70	0.070	0.040	--
18...	0.18	0.020	4.3	4.7	21	1.70	0.020	0.020	--
18...	0.18	0.020	4.1	4.4	19	1.70	0.030	0.020	--
18...	0.27	0.030	4.8	5.1	22	1.80	0.020	0.020	--
18...	0.28	0.020	4.8	5.0	22	1.40	0.020	0.020	--

LOOSAHATCHIE RIVER BASIN

07030242 - EAST BEAVER CREEK CANAL TRIBUTARY AT WILLIAMS FARM NEAR BELMONT, TN--Continued

WATER-QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
MAR								
18...	0350	80020	<0.010	0.220	0.220	0.010	0.04	0.27
18...	0255	80020	--	0.500	--	0.020	--	--
18...	0505	80020	<0.010	0.260	0.260	0.020	0.05	0.46
18...	0420	80020	<0.010	0.210	0.210	0.020	0.04	0.47
18...	0430	80020	<0.010	0.220	0.220	0.020	0.04	0.37
18...	0525	80020	<0.010	0.360	0.360	<0.010	0.03	0.38
18...	0235	80020	<0.010	0.450	0.450	<0.010	0.03	0.38
18...	0400	80020	<0.010	0.220	0.220	0.020	0.04	0.37
18...	0435	80020	<0.010	0.230	0.230	0.020	0.05	0.46
18...	0520	80020	<0.010	0.330	0.330	0.010	0.04	0.57

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	PHOSPHORUS ORGANIC TOTAL (MG/L AS P)
MAR								
18...	0.030	3.0	3.2	14	1.10	0.020	0.020	--
18...	--	4.7	5.2	23	2.60	--	--	--
18...	0.040	2.8	3.1	14	1.60	0.040	0.030	1.6
18...	0.030	2.3	2.5	11	1.20	0.040	0.020	--
18...	0.030	1.9	2.1	9.4	0.900	0.030	0.020	0.89
18...	0.020	3.2	3.6	16	1.60	0.030	0.020	--
18...	0.020	2.8	3.3	14	1.50	0.030	0.020	--
18...	0.030	1.9	2.1	9.4	0.970	0.030	0.020	--
18...	0.040	1.9	2.1	9.4	0.880	0.040	0.030	0.87
18...	0.030	2.2	2.5	11	1.20	0.040	0.020	--

LOOSAHATCHIE RIVER BASIN

FLOOD-HYDROGRAPH STATION

070302446 MIDDLE BEAVER CREEK CANAL AT STATE ROUTE 14 NEAR MASON, TN

LOCATION.--Lat 35°28'16", long 89°36'58", Tipton County, Hydrologic Unit 08010209, on left bank at downstream side of bridge on State Route 14 approximately 1.5 mi from the intersection of Highways 140 and 59.

DRAINAGE AREA.--11.6 mi².

PERIOD OF RECORD.--January 1993 to June 1993, November 1994 to June 1995 (discontinued).

GAGE.--Water stage recorder. Datum of gage 291.92 ft, above sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1460 ft³/s, Jan. 19, 1995, gage height, 10.54 ft.

EXTREMES FOR CURRENT PERIOD.--Water Year 1993: Maximum discharge, 1,320 ft³/s, Apr. 9, gage height, 10.01.

Water Year 1995: Maximum discharge, 1,460 ft³/s, Jan. 19, gage height, 10.54 ft.

UNIT DISCHARGE (CUBIC FEET/SECOND)

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
				APRIL 8, 1993					
00:10:00	1.5	05:00:00	1.5	09:50:00	1.5	14:40:00	1.5	19:30:00	6.4
00:20:00	1.5	05:10:00	1.5	10:00:00	1.5	14:50:00	1.5	19:40:00	11
00:30:00	1.5	05:20:00	1.5	10:10:00	1.5	15:00:00	1.6	19:50:00	14
00:40:00	1.5	05:30:00	1.5	10:20:00	1.5	15:10:00	1.6	20:00:00	17
00:50:00	1.5	05:40:00	1.5	10:30:00	1.5	15:20:00	1.6	20:10:00	19
01:00:00	1.5	05:50:00	1.5	10:40:00	1.6	15:30:00	1.6	20:20:00	21
01:10:00	1.5	06:00:00	1.5	10:50:00	1.6	15:40:00	1.6	20:30:00	22
01:20:00	1.5	06:10:00	1.5	11:00:00	1.6	15:50:00	1.7	20:40:00	24
01:30:00	1.5	06:20:00	1.5	11:10:00	1.6	16:00:00	1.7	20:50:00	26
01:40:00	1.5	06:30:00	1.5	11:20:00	1.6	16:10:00	1.7	21:00:00	28
01:50:00	1.5	06:40:00	1.5	11:30:00	1.6	16:20:00	1.9	21:10:00	31
02:00:00	1.5	06:50:00	1.5	11:40:00	1.6	16:30:00	1.9	21:20:00	34
02:10:00	1.5	07:00:00	1.5	11:50:00	1.6	16:40:00	2.0	21:30:00	38
02:20:00	1.5	07:10:00	1.5	12:00:00	1.6	16:50:00	2.0	21:40:00	42
02:30:00	1.5	07:20:00	1.5	12:10:00	1.6	17:00:00	2.1	21:50:00	47
02:40:00	1.5	07:30:00	1.5	12:20:00	1.6	17:10:00	2.1	22:00:00	51
02:50:00	1.5	07:40:00	1.5	12:30:00	1.6	17:20:00	2.3	22:10:00	55
03:00:00	1.5	07:50:00	1.5	12:40:00	1.6	17:30:00	2.3	22:20:00	61
03:10:00	1.5	08:00:00	1.5	12:50:00	1.6	17:40:00	2.4	22:30:00	67
03:20:00	1.5	08:10:00	1.5	13:00:00	1.6	17:50:00	2.6	22:40:00	72
03:30:00	1.5	08:20:00	1.5	13:10:00	1.6	18:00:00	2.7	22:50:00	78
03:40:00	1.5	08:30:00	1.5	13:20:00	1.6	18:10:00	2.9	23:00:00	86
03:50:00	1.5	08:40:00	1.5	13:30:00	1.5	18:20:00	3.0	23:10:00	94
04:00:00	1.5	08:50:00	1.5	13:40:00	1.5	18:30:00	3.2	23:20:00	104
04:10:00	1.5	09:00:00	1.5	13:50:00	1.5	18:40:00	3.6	23:30:00	114
04:20:00	1.5	09:10:00	1.5	14:00:00	1.5	18:50:00	3.6	23:40:00	129
04:30:00	1.5	09:20:00	1.5	14:10:00	1.5	19:00:00	4.0	23:50:00	148
04:40:00	1.5	09:30:00	1.5	14:20:00	1.5	19:10:00	4.2	24:00:00	170
04:50:00	1.5	09:40:00	1.5	14:30:00	1.5	19:20:00	4.7		
				APRIL 9, 1993					
00:10:00	200	05:00:00	1320	09:50:00	1140	14:40:00	403	19:30:00	73
00:20:00	240	05:10:00	1320	10:00:00	1120	14:50:00	382	19:40:00	70
00:30:00	294	05:20:00	1320	10:10:00	1110	15:00:00	363	19:50:00	68
00:40:00	366	05:30:00	1320	10:20:00	1090	15:10:00	342	20:00:00	64
00:50:00	442	05:40:00	1320	10:30:00	1070	15:20:00	319	20:10:00	61
01:00:00	534	05:50:00	1320	10:40:00	1050	15:30:00	299	20:20:00	59
01:10:00	664	06:00:00	1320	10:50:00	1030	15:40:00	278	20:30:00	57
01:20:00	827	06:10:00	1320	11:00:00	1010	15:50:00	260	20:40:00	55
01:30:00	960	06:20:00	1310	11:10:00	983	16:00:00	245	20:50:00	53
01:40:00	1060	06:30:00	1310	11:20:00	958	16:10:00	230	21:00:00	51
01:50:00	1130	06:40:00	1310	11:30:00	929	16:20:00	217	21:10:00	49
02:00:00	1170	06:50:00	1300	11:40:00	896	16:30:00	203	21:20:00	48
02:10:00	1200	07:00:00	1300	11:50:00	859	16:40:00	192	21:30:00	46
02:20:00	1220	07:10:00	1290	12:00:00	824	16:50:00	180	21:40:00	45
02:30:00	1240	07:20:00	1280	12:10:00	788	17:00:00	169	21:50:00	43
02:40:00	1260	07:30:00	1270	12:20:00	752	17:10:00	159	22:00:00	42
02:50:00	1270	07:40:00	1270	12:30:00	719	17:20:00	149	22:10:00	41
03:00:00	1280	07:50:00	1260	12:40:00	689	17:30:00	141	22:20:00	40
03:10:00	1290	08:00:00	1250	12:50:00	660	17:40:00	133	22:30:00	39
03:20:00	1300	08:10:00	1240	13:00:00	633	17:50:00	126	22:40:00	38
03:30:00	1300	08:20:00	1230	13:10:00	606	18:00:00	118	22:50:00	37
03:40:00	1310	08:30:00	1220	13:20:00	580	18:10:00	112	23:00:00	36
03:50:00	1310	08:40:00	1210	13:30:00	555	18:20:00	106	23:10:00	35
04:00:00	1310	08:50:00	1200	13:40:00	528	18:30:00	99	23:20:00	35
04:10:00	1320	09:00:00	1190	13:50:00	507	18:40:00	94	23:30:00	34
04:20:00	1320	09:10:00	1180	14:00:00	486	18:50:00	90	23:40:00	33
04:30:00	1320	09:20:00	1170	14:10:00	465	19:00:00	85	23:50:00	32
04:40:00	1320	09:30:00	1160	14:20:00	444	19:10:00	81	24:00:00	32
04:50:00	1320	09:40:00	1150	14:30:00	423	19:20:00	76		

LOOSAHATCHIE RIVER BASIN

FLOOD-HYDROGRAPH STATION

070302446 MIDDLE BEAVER CREEK CANAL AT STATE ROUTE 14 NEAR MASON, TN--Continued

UNIT DISCHARGE (CUBIC FEET/SECOND)

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
				JANUARY 18, 1995					
02:00:00	1.6	06:30:00	1.6	11:00:00	1.6	15:30:00	402	20:00:00	189
02:30:00	1.6	07:00:00	1.6	11:30:00	1.7	16:00:00	489	20:30:00	184
03:00:00	1.6	07:30:00	1.6	12:00:00	1.7	16:30:00	511	21:00:00	215
03:30:00	1.6	08:00:00	1.6	12:30:00	2.1	17:00:00	496	21:30:00	336
04:00:00	1.6	08:30:00	1.6	13:00:00	6.2	17:30:00	456	22:00:00	612
04:30:00	1.6	09:00:00	1.6	13:30:00	15	18:00:00	394	22:30:00	979
05:00:00	1.6	09:30:00	1.6	14:00:00	26	18:30:00	324	23:00:00	1180
05:30:00	1.6	10:00:00	1.6	14:30:00	95	19:00:00	259	23:30:00	1210
06:00:00	1.6	10:30:00	1.6	15:00:00	286	19:30:00	217	24:00:00	1250
				JANUARY 19, 1995					
00:05:00	1260	04:55:00	1450	09:45:00	1320	14:35:00	459	19:25:00	117
00:10:00	1260	05:00:00	1450	09:50:00	1310	14:40:00	447	19:30:00	114
00:15:00	1270	05:05:00	1450	09:55:00	1300	14:45:00	433	19:35:00	112
00:20:00	1270	05:10:00	1450	10:00:00	1300	14:50:00	421	19:40:00	109
00:25:00	1280	05:15:00	1450	10:05:00	1280	14:55:00	411	19:45:00	107
00:30:00	1280	05:20:00	1450	10:10:00	1280	15:00:00	399	19:50:00	105
00:35:00	1280	05:25:00	1460	10:15:00	1270	15:05:00	388	19:55:00	102
00:40:00	1290	05:30:00	1460	10:20:00	1260	15:10:00	378	20:00:00	99
00:45:00	1290	05:35:00	1460	10:25:00	1250	15:15:00	369	20:05:00	97
00:50:00	1290	05:40:00	1460	10:30:00	1240	15:20:00	358	20:10:00	95
00:55:00	1300	05:45:00	1460	10:35:00	1230	15:25:00	349	20:15:00	93
01:00:00	1300	05:50:00	1460	10:40:00	1210	15:30:00	340	20:20:00	91
01:05:00	1300	05:55:00	1460	10:45:00	1200	15:35:00	333	20:25:00	89
01:10:00	1300	06:00:00	1460	10:50:00	1190	15:40:00	325	20:30:00	87
01:15:00	1300	06:05:00	1460	10:55:00	1180	15:45:00	319	20:35:00	85
01:20:00	1300	06:10:00	1460	11:00:00	1160	15:50:00	311	20:40:00	84
01:25:00	1300	06:15:00	1460	11:05:00	1150	15:55:00	303	20:45:00	82
01:30:00	1300	06:20:00	1460	11:10:00	1130	16:00:00	296	20:50:00	81
01:35:00	1300	06:25:00	1460	11:15:00	1120	16:05:00	289	20:55:00	79
01:40:00	1300	06:30:00	1460	11:20:00	1110	16:10:00	282	21:00:00	77
01:45:00	1300	06:35:00	1460	11:25:00	1090	16:15:00	275	21:05:00	76
01:50:00	1300	06:40:00	1460	11:30:00	1080	16:20:00	268	21:10:00	74
01:55:00	1300	06:45:00	1460	11:35:00	1070	16:25:00	264	21:15:00	72
02:00:00	1300	06:50:00	1460	11:40:00	1060	16:30:00	259	21:20:00	70
02:05:00	1300	06:55:00	1460	11:45:00	1040	16:35:00	252	21:25:00	70
02:10:00	1300	07:00:00	1460	11:50:00	1020	16:40:00	247	21:30:00	68
02:15:00	1300	07:05:00	1460	11:55:00	1010	16:45:00	242	21:35:00	68
02:20:00	1290	07:10:00	1460	12:00:00	995	16:50:00	237	21:40:00	66
02:25:00	1290	07:15:00	1450	12:05:00	979	16:55:00	231	21:45:00	66
02:30:00	1300	07:20:00	1450	12:10:00	965	17:00:00	226	21:50:00	65
02:35:00	1300	07:25:00	1450	12:15:00	947	17:05:00	221	21:55:00	64
02:40:00	1300	07:30:00	1450	12:20:00	931	17:10:00	217	22:00:00	63
02:45:00	1300	07:35:00	1450	12:25:00	916	17:15:00	212	22:05:00	63
02:50:00	1300	07:40:00	1440	12:30:00	898	17:20:00	207	22:10:00	62
02:55:00	1310	07:45:00	1440	12:35:00	881	17:25:00	203	22:15:00	61
03:00:00	1310	07:50:00	1440	12:40:00	864	17:30:00	199	22:20:00	61
03:05:00	1320	07:55:00	1440	12:45:00	848	17:35:00	195	22:25:00	60
03:10:00	1320	08:00:00	1430	12:50:00	831	17:40:00	191	22:30:00	59
03:15:00	1330	08:05:00	1430	12:55:00	814	17:45:00	187	22:35:00	59
03:20:00	1340	08:10:00	1420	13:00:00	796	17:50:00	182	22:40:00	58
03:25:00	1350	08:15:00	1420	13:05:00	779	17:55:00	179	22:45:00	58
03:30:00	1360	08:20:00	1420	13:10:00	761	18:00:00	175	22:50:00	58
03:35:00	1370	08:25:00	1410	13:15:00	742	18:05:00	171	22:55:00	57
03:40:00	1380	08:30:00	1410	13:20:00	723	18:10:00	167	23:00:00	57
03:45:00	1390	08:35:00	1410	13:25:00	705	18:15:00	164	23:05:00	57
03:50:00	1390	08:40:00	1400	13:30:00	685	18:20:00	160	23:10:00	56
03:55:00	1400	08:45:00	1400	13:35:00	668	18:25:00	156	23:15:00	55
04:00:00	1410	08:50:00	1390	13:40:00	648	18:30:00	152	23:20:00	55
04:05:00	1410	08:55:00	1380	13:45:00	629	18:35:00	148	23:25:00	54
04:10:00	1420	09:00:00	1380	13:50:00	610	18:40:00	145	23:30:00	54
04:15:00	1420	09:05:00	1370	13:55:00	592	18:45:00	141	23:35:00	54
04:20:00	1420	09:10:00	1360	14:00:00	573	18:50:00	138	23:40:00	53
04:25:00	1430	09:15:00	1360	14:05:00	553	18:55:00	135	23:45:00	53
04:30:00	1430	09:20:00	1350	14:10:00	534	19:00:00	132	23:50:00	53
04:35:00	1440	09:25:00	1350	14:15:00	517	19:05:00	129	23:55:00	53
04:40:00	1440	09:30:00	1340	14:20:00	502	19:10:00	125	24:00:00	52
04:45:00	1440	09:35:00	1330	14:25:00	487	19:15:00	123		
04:50:00	1440	09:40:00	1330	14:30:00	472	19:20:00	119		

LOOSAHATCHIE RIVER BASIN

FLOOD-HYDROGRAPH STATION

07030246 MIDDLE BEAVER CREEK CANAL NEAR GAINSVILLE, TN

LOCATION.--Lat 35°23'39", long 89°38'29", Tipton County, Hydrologic Unit 08010209, on left bank at downstream side of bridge on Beaver Creek Road 5.0 mi west of Mason, 11.0 mi south of Covington.

DRAINAGE AREA.--38.4 mi² .

PERIOD OF RECORD.--November 1992 to May 1995 (discontinued).

GAGE.--Water stage recorder.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,450 ft³/s, January 19, 1995, gage height, 18.94 ft.

EXTREMES FOR CURRENT PERIOD.--Water Year 1993: Maximum discharge, 3,440 ft³/s, Jan. 21, gage height, 18.16 ft.

Water Year 1994: Maximum discharge, 912 ft³/s, May 13, gage height, 11.06 ft.

Water Year 1995: Maximum discharge, 5,450 ft³/s, Jan. 19, gage height, 18.94 ft.

UNIT DISCHARGE (CUBIC FEET/SECOND)

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
				JANUARY 20, 1993					
00:04:00	49	05:49:00	55	11:34:00	53	17:19:00	200	22:49:00	625
00:19:00	50	06:04:00	55	11:49:00	54	17:34:00	229	23:04:00	652
00:34:00	51	06:19:00	55	12:04:00	56	17:49:00	267	23:17:00	738
00:49:00	51	06:34:00	55	12:19:00	58	18:04:00	314	23:18:00	748
01:04:00	51	06:49:00	55	12:34:00	60	18:07:00	340	23:19:00	756
01:19:00	52	07:04:00	55	12:49:00	64	18:22:00	369	23:21:00	774
01:34:00	52	07:19:00	55	13:04:00	66	18:34:00	446	23:25:00	812
01:49:00	52	07:34:00	54	13:19:00	70	18:49:00	486	23:26:00	820
02:04:00	52	07:49:00	54	13:34:00	74	19:04:00	546	23:27:00	833
02:19:00	53	08:04:00	54	13:49:00	79	19:19:00	601	23:28:00	844
02:34:00	53	08:19:00	54	14:04:00	83	19:34:00	654	23:29:00	852
02:49:00	53	08:34:00	54	14:19:00	89	19:49:00	690	23:30:00	863
03:04:00	53	08:49:00	53	14:34:00	93	20:04:00	715	23:31:00	876
03:19:00	54	09:04:00	53	14:49:00	99	20:19:00	725	23:32:00	884
03:34:00	54	09:19:00	53	15:04:00	104	20:34:00	725	23:33:00	898
03:49:00	54	09:34:00	52	15:19:00	110	20:49:00	725	23:34:00	912
04:04:00	54	09:49:00	52	15:34:00	116	21:04:00	712	23:35:00	923
04:19:00	55	10:04:00	52	15:49:00	122	21:19:00	700	23:36:00	935
04:34:00	55	10:19:00	52	16:04:00	129	21:34:00	682	23:37:00	949
04:49:00	55	10:34:00	52	16:19:00	138	21:49:00	664	23:43:00	1040
05:04:00	55	10:49:00	52	16:34:00	148	22:04:00	649	24:00:00	1280
05:19:00	55	11:04:00	52	16:49:00	163	22:19:00	634		
05:34:00	55	11:19:00	52	17:04:00	177	22:34:00	625		
				JANUARY 21, 1993					
00:02:00	1310	00:40:00	2080	02:45:00	3410	09:42:00	1080	15:30:00	222
00:03:00	1360	00:41:00	2100	03:00:00	3440	09:44:00	1040	15:45:00	212
00:04:00	1370	00:42:00	2110	03:15:00	3430	09:45:00	1080	16:00:00	205
00:05:00	1390	00:43:00	2130	03:30:00	3410	09:46:00	1040	16:15:00	195
00:06:00	1420	00:44:00	2150	03:45:00	3390	09:48:00	1140	16:30:00	189
00:07:00	1440	00:45:00	2160	04:00:00	3340	09:49:00	1120	16:45:00	181
00:09:00	1470	00:46:00	2180	04:15:00	3280	09:50:00	1020	17:00:00	174
00:10:00	1490	00:47:00	2200	04:30:00	3210	09:54:00	1150	17:15:00	169
00:11:00	1510	00:48:00	2220	04:45:00	3120	09:55:00	996	17:30:00	164
00:12:00	1520	00:49:00	2240	05:00:00	3040	09:56:00	1050	17:45:00	156
00:13:00	1540	00:50:00	2260	05:15:00	2940	09:58:00	978	18:00:00	153
00:14:00	1560	00:51:00	2280	05:30:00	2850	10:00:00	1060	18:15:00	148
00:15:00	1580	00:52:00	2300	05:45:00	2770	10:01:00	961	18:30:00	143
00:16:00	1600	00:55:00	2350	05:56:00	2650	10:16:00	893	18:45:00	139
00:17:00	1620	00:56:00	2370	06:00:00	2630	10:31:00	831	19:00:00	135
00:18:00	1650	00:57:00	2390	06:15:00	2520	10:43:00	777	19:15:00	131
00:19:00	1660	00:58:00	2410	06:30:00	2420	10:45:00	771	19:30:00	128
00:20:00	1690	00:59:00	2430	06:45:00	2320	11:00:00	712	19:45:00	123
00:21:00	1710	01:00:00	2450	06:47:00	2300	11:15:00	657	20:00:00	121
00:22:00	1730	01:02:00	2490	07:02:00	2210	11:30:00	605	20:15:00	118
00:24:00	1760	01:04:00	2510	07:15:00	2110	11:45:00	559	20:30:00	114
00:25:00	1790	01:05:00	2530	07:17:00	2090	12:00:00	519	20:45:00	111
00:26:00	1810	01:06:00	2550	07:30:00	2010	12:15:00	480	21:00:00	109
00:27:00	1830	01:10:00	2610	07:45:00	1910	12:30:00	445	21:15:00	107
00:28:00	1850	01:13:00	2670	08:00:00	1790	12:45:00	415	21:30:00	104
00:29:00	1870	01:15:00	2690	08:15:00	1670	13:00:00	389	21:45:00	102
00:30:00	1890	01:16:00	2710	08:21:00	1620	13:15:00	366	22:00:00	99
00:31:00	1910	01:20:00	2780	08:30:00	1560	13:30:00	342	22:15:00	97
00:32:00	1920	01:21:00	2600	08:45:00	1440	13:45:00	322	22:30:00	95
00:33:00	1940	01:22:00	2810	09:00:00	1330	14:00:00	305	22:45:00	93
00:34:00	1960	01:30:00	2920	09:04:00	1320	14:15:00	287	23:00:00	90
00:35:00	1980	01:45:00	3080	09:05:00	1300	14:30:00	271	23:15:00	89
00:36:00	2000	02:00:00	3240	09:06:00	1380	14:45:00	257	23:30:00	87
00:37:00	2020	02:15:00	3320	09:29:00	1100	15:00:00	245	23:45:00	85
00:39:00	2050	02:30:00	3380	09:30:00	1140	15:15:00	233	24:00:00	83

LOOSAHATCHIE RIVER BASIN

FLOOD-HYDROGRAPH STATION

07030246 MIDDLE BEAVER CREEK CANAL NEAR GAINSVILLE, TN--Continued

UNIT DISCHARGE (CUBIC FEET/SECOND)

MAY 13, 1994

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
00:05:00	2.3	04:55:00	2.3	09:45:00	19	14:35:00	649	19:25:00	165
00:10:00	2.3	05:00:00	2.3	09:50:00	39	14:40:00	644	19:30:00	160
00:15:00	2.3	05:05:00	2.3	09:55:00	89	14:45:00	642	19:35:00	155
00:20:00	2.3	05:10:00	2.3	10:00:00	142	14:50:00	637	19:40:00	151
00:25:00	2.3	05:15:00	2.3	10:05:00	200	14:55:00	635	19:45:00	147
00:30:00	2.3	05:20:00	2.3	10:10:00	276	15:00:00	632	19:50:00	143
00:35:00	2.3	05:25:00	2.3	10:15:00	382	15:05:00	628	19:55:00	141
00:40:00	2.3	05:30:00	2.3	10:20:00	541	15:10:00	625	20:00:00	136
00:45:00	2.3	05:35:00	2.3	10:25:00	713	15:15:00	623	20:05:00	132
00:50:00	2.3	05:40:00	2.3	10:30:00	812	15:20:00	618	20:10:00	131
00:55:00	2.3	05:45:00	2.3	10:35:00	912	15:25:00	616	20:15:00	126
01:00:00	2.3	05:50:00	2.3	10:40:00	879	15:30:00	614	20:20:00	124
01:05:00	2.3	05:55:00	2.3	10:45:00	839	15:35:00	607	20:25:00	120
01:10:00	2.3	06:00:00	2.3	10:50:00	803	15:40:00	605	20:30:00	118
01:15:00	2.3	06:05:00	2.3	10:55:00	771	15:45:00	607	20:35:00	114
01:20:00	2.3	06:10:00	2.3	11:00:00	747	15:50:00	607	20:40:00	112
01:25:00	2.3	06:15:00	2.3	11:05:00	734	15:55:00	598	20:45:00	109
01:30:00	2.3	06:20:00	2.3	11:10:00	726	16:00:00	587	20:50:00	108
01:35:00	2.3	06:25:00	2.3	11:15:00	724	16:05:00	584	20:55:00	105
01:40:00	2.3	06:30:00	2.3	11:20:00	721	16:10:00	560	21:00:00	103
01:45:00	2.3	06:35:00	2.3	11:25:00	724	16:15:00	562	21:05:00	99
01:50:00	2.3	06:40:00	2.3	11:30:00	729	16:20:00	573	21:10:00	98
01:55:00	2.3	06:45:00	2.3	11:35:00	729	16:25:00	573	21:15:00	96
02:00:00	2.3	06:50:00	2.3	11:40:00	726	16:30:00	556	21:20:00	94
02:05:00	2.3	06:55:00	2.3	11:45:00	726	16:35:00	535	21:25:00	93
02:10:00	2.3	07:00:00	2.3	11:50:00	724	16:40:00	512	21:30:00	91
02:15:00	2.3	07:05:00	2.3	11:55:00	721	16:45:00	492	21:35:00	89
02:20:00	2.3	07:10:00	2.3	12:00:00	718	16:50:00	473	21:40:00	87
02:25:00	2.3	07:15:00	2.3	12:05:00	718	16:55:00	452	21:45:00	86
02:30:00	2.3	07:20:00	2.3	12:10:00	716	17:00:00	436	21:50:00	84
02:35:00	2.3	07:25:00	2.3	12:15:00	713	17:05:00	418	21:55:00	83
02:40:00	2.3	07:30:00	2.3	12:20:00	713	17:10:00	400	22:00:00	82
02:45:00	2.3	07:35:00	2.3	12:25:00	711	17:15:00	385	22:05:00	79
02:50:00	2.3	07:40:00	2.2	12:30:00	706	17:20:00	372	22:10:00	79
02:55:00	2.3	07:45:00	2.3	12:35:00	706	17:25:00	357	22:15:00	77
03:00:00	2.3	07:50:00	2.3	12:40:00	703	17:30:00	344	22:20:00	76
03:05:00	2.3	07:55:00	2.2	12:45:00	698	17:35:00	330	22:25:00	75
03:10:00	2.3	08:00:00	2.3	12:50:00	696	17:40:00	319	22:30:00	74
03:15:00	2.3	08:05:00	2.3	12:55:00	693	17:45:00	307	22:35:00	72
03:20:00	2.3	08:10:00	2.3	13:00:00	693	17:50:00	296	22:40:00	72
03:25:00	2.3	08:15:00	2.2	13:05:00	691	17:55:00	289	22:45:00	70
03:30:00	2.3	08:20:00	2.2	13:10:00	686	18:00:00	279	22:50:00	69
03:35:00	2.3	08:25:00	2.2	13:15:00	686	18:05:00	268	22:55:00	68
03:40:00	2.3	08:30:00	2.2	13:20:00	686	18:10:00	261	23:00:00	67
03:45:00	2.3	08:35:00	2.2	13:25:00	683	18:15:00	252	23:05:00	66
03:50:00	2.3	08:40:00	2.2	13:30:00	681	18:20:00	244	23:10:00	65
03:55:00	2.3	08:45:00	2.2	13:35:00	681	18:25:00	238	23:15:00	64
04:00:00	2.3	08:50:00	2.2	13:40:00	676	18:30:00	229	23:20:00	63
04:05:00	2.3	08:55:00	2.3	13:45:00	676	18:35:00	222	23:25:00	62
04:10:00	2.3	09:00:00	2.4	13:50:00	668	18:40:00	216	23:30:00	61
04:15:00	2.3	09:05:00	2.5	13:55:00	664	18:45:00	210	23:35:00	60
04:20:00	2.3	09:10:00	3.0	14:00:00	659	18:50:00	203	23:40:00	59
04:25:00	2.3	09:15:00	3.5	14:05:00	656	18:55:00	198	23:45:00	59
04:30:00	2.3	09:20:00	4.1	14:10:00	656	19:00:00	191	23:50:00	58
04:35:00	2.3	09:25:00	5.1	14:15:00	659	19:05:00	186	23:55:00	57
04:40:00	2.3	09:30:00	5.8	14:20:00	656	19:10:00	180	24:00:00	56
04:45:00	2.3	09:35:00	7.1	14:25:00	654	19:15:00	175		
04:50:00	2.3	09:40:00	10	14:30:00	651	19:20:00	169		

JANUARY 18, 1995

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
00:30:00	4.4	05:30:00	4.4	10:30:00	4.4	15:30:00	856	20:30:00	1030
01:00:00	4.4	06:00:00	4.4	11:00:00	4.4	16:00:00	1250	21:00:00	1020
01:30:00	4.4	06:30:00	4.4	11:30:00	4.6	16:30:00	1560	21:30:00	1210
02:00:00	4.4	07:00:00	4.4	12:00:00	4.7	17:00:00	1710	22:00:00	1720
02:30:00	4.4	07:30:00	4.4	12:30:00	5.1	17:30:00	1760	22:30:00	2530
03:00:00	4.4	08:00:00	4.4	13:00:00	5.6	18:00:00	1690	23:00:00	3560
03:30:00	4.4	08:30:00	4.4	13:30:00	7.8	18:30:00	1580	23:30:00	4520
04:00:00	4.4	09:00:00	4.4	14:00:00	26	19:00:00	1370	24:00:00	4870
04:30:00	4.4	09:30:00	4.4	14:30:00	107	19:30:00	1260		
05:00:00	4.4	10:00:00	4.4	15:00:00	443	20:00:00	1130		

LOOSAHATCHIE RIVER BASIN

FLOOD-HYDROGRAPH STATION

07030246 MIDDLE BEAVER CREEK CANAL NEAR GAINSVILLE--Continued

UNIT DISCHARGE (CUBIC FEET/SECOND)

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
				JANUARY 19, 1995					
00:30:00	4970	05:30:00	5430	10:30:00	4480	15:30:00	2220	20:30:00	617
01:00:00	5100	06:00:00	5420	11:00:00	4300	16:00:00	1890	21:00:00	559
01:30:00	5090	06:30:00	5370	11:30:00	4100	16:30:00	1610	21:30:00	509
02:00:00	5100	07:00:00	5330	12:00:00	3900	17:00:00	1620	22:00:00	467
02:30:00	5120	07:30:00	5280	12:30:00	3710	17:30:00	1370	22:30:00	428
03:00:00	5140	08:00:00	5210	13:00:00	3500	18:00:00	1170	23:00:00	396
03:30:00	5220	08:30:00	5100	13:30:00	3280	18:30:00	1010	23:30:00	370
04:00:00	5360	09:00:00	4980	14:00:00	3040	19:00:00	881	24:00:00	350
04:30:00	5400	09:30:00	4830	14:30:00	2780	19:30:00	770		
05:00:00	5440	10:00:00	4660	15:00:00	2530	20:00:00	687		
				JANUARY 20, 1995					
00:30:00	329	05:30:00	230	10:30:00	160	15:30:00	99	20:30:00	68
01:00:00	314	06:00:00	225	11:00:00	153	16:00:00	96	21:00:00	66
01:30:00	297	06:30:00	221	11:30:00	145	16:30:00	91	21:30:00	64
02:00:00	283	07:00:00	219	12:00:00	136	17:00:00	87	22:00:00	62
02:30:00	271	07:30:00	212	12:30:00	130	17:30:00	84	22:30:00	60
03:00:00	260	08:00:00	205	13:00:00	125	18:00:00	82	23:00:00	58
03:30:00	252	08:30:00	196	13:30:00	119	18:30:00	78	23:30:00	57
04:00:00	247	09:00:00	187	14:00:00	114	19:00:00	75	24:00:00	55
04:30:00	237	09:30:00	179	14:30:00	107	19:30:00	73		
05:00:00	233	10:00:00	170	15:00:00	104	20:00:00	71		

LOOSAHATCHIE RIVER BASIN

FLOOD-HYDROGRAPH STATION

070302481 WEST BEAVER CREEK CANAL TRIBUTARY AT MOFFATT FARM NEAR MADGE, TN

LOCATION.--Lat 35°23'52", long 89°42'35", Shelby County, Hydrologic Unit 08010209, on Brunswick road, 2.3 mi south of Idaville, 1.0 mi west of State Highway 14, 2.7 mi northwest of Madge.

DRAINAGE AREA.--0.11 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1990 to August 1995 (discontinued).

GAGE.--Water stage recorder. Datum of gage 340 ft, above sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 459 ft³/s, Aug. 10, 1995, gage height, 5.72 ft.

EXTREMES FOR CURRENT PERIOD.--Water Year 1992: Maximum discharge, 163 ft³/s, Mar. 18, gage height 5.07 ft.

Water Year 1993: Maximum discharge, 80 ft³/s, Aug. 2, gage height 4.70 ft.

Water Year 1994: Maximum discharge, 172 ft³/s, May 13, gage height 5.25 ft.

Water Year 1995: Maximum discharge, 459 ft³/s, Aug. 10, gage height 5.72 ft.

FLOOD-HYDROGRAPH STATION

070302481 WEST BEAVER CREEK CANAL TRIBUTARY AT MOFFATT FARM NEAR MADGE, TN--Continued

UNIT DISCHARGE (CUBIC FEET/SECOND)

MARCH 18, 1992

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
00:11:00	.00	05:02:00	.03	07:12:00	163	09:55:00	4.1	17:15:00	.27
00:14:00	.00	05:04:00	.03	07:13:00	163	10:00:00	3.7	17:20:00	.27
00:16:00	.00	05:05:00	.03	07:15:00	163	10:05:00	3.4	17:25:00	.27
00:18:00	.00	05:07:00	.03	07:16:00	158	10:10:00	3.2	17:30:00	.27
00:20:00	.00	05:09:00	.03	07:17:00	155	10:15:00	3.2	17:35:00	.27
00:21:00	.00	05:10:00	.03	07:18:00	155	10:20:00	3.2	17:40:00	.27
00:22:00	.00	05:11:00	.03	07:19:00	153	10:25:00	3.1	17:45:00	.27
00:24:00	.00	05:13:00	.04	07:20:00	145	10:30:00	3.1	17:50:00	.27
00:29:00	.00	05:15:00	.04	07:21:00	145	10:35:00	2.9	17:55:00	.27
00:35:00	.00	05:16:00	.04	07:22:00	145	10:40:00	2.9	18:00:00	.25
00:38:00	.00	05:20:00	.04	07:23:00	137	10:45:00	2.9	18:05:00	.25
00:41:00	.00	05:24:00	.05	07:24:00	137	10:50:00	2.7	18:10:00	.25
00:45:00	.01	05:25:00	.05	07:25:00	132	10:55:00	2.5	18:15:00	.25
00:48:00	.01	05:26:00	.06	07:26:00	132	11:00:00	2.5	18:20:00	.20
00:50:00	.01	05:27:00	.06	07:27:00	125	11:05:00	2.4	18:25:00	.20
00:51:00	.01	05:28:00	.07	07:29:00	125	11:10:00	2.4	18:30:00	.20
00:53:00	.01	05:30:00	.09	07:30:00	125	11:15:00	2.2	18:35:00	.20
00:55:00	.01	05:31:00	.09	07:32:00	112	11:20:00	2.1	18:40:00	.20
00:57:00	.01	05:34:00	.09	07:33:00	108	11:25:00	2.0	18:45:00	.20
00:59:00	.01	05:35:00	.12	07:34:00	108	11:30:00	1.8	18:50:00	.20
01:00:00	.01	05:36:00	.13	07:35:00	104	11:35:00	1.8	18:55:00	.20
01:03:00	.01	05:37:00	.27	07:36:00	104	11:40:00	1.8	19:00:00	.20
01:04:00	.01	05:39:00	.41	07:37:00	100	11:45:00	1.8	19:05:00	.20
01:05:00	.01	05:40:00	.41	07:38:00	100	11:50:00	1.7	19:10:00	.20
01:07:00	.01	05:41:00	.50	07:40:00	96	11:55:00	1.7	19:15:00	.20
01:10:00	.01	05:42:00	.50	07:41:00	96	12:00:00	1.6	19:20:00	.20
01:14:00	.01	05:43:00	.67	07:42:00	96	12:05:00	1.5	19:25:00	.20
01:15:00	.01	05:44:00	.67	07:43:00	94	12:10:00	1.4	19:30:00	.20
01:20:00	.01	05:45:00	.92	07:44:00	94	12:15:00	1.4	19:35:00	.20
01:22:00	.01	05:46:00	.92	07:45:00	94	12:20:00	1.3	19:40:00	.20
01:25:00	.01	05:50:00	2.0	07:46:00	89	12:25:00	1.3	19:45:00	.20
01:28:00	.01	05:51:00	2.2	07:47:00	89	12:30:00	1.2	19:50:00	.18
01:30:00	.01	05:52:00	2.2	07:49:00	89	12:31:00	1.2	19:55:00	.18
01:33:00	.01	05:53:00	2.4	07:50:00	89	12:35:00	1.2	20:00:00	.18
01:35:00	.01	05:54:00	2.8	07:51:00	89	12:40:00	1.2	20:05:00	.18
01:37:00	.01	05:55:00	2.8	07:52:00	89	12:45:00	1.2	20:10:00	.18
01:40:00	.02	05:57:00	3.1	07:54:00	89	12:50:00	1.1	20:15:00	.18
01:44:00	.02	05:58:00	3.6	07:55:00	89	12:55:00	1.0	20:20:00	.16
01:45:00	.02	06:00:00	4.2	07:56:00	89	13:00:00	1.0	20:25:00	.16
01:49:00	.03	06:03:00	4.8	07:57:00	89	13:05:00	1.0	20:30:00	.16
01:50:00	.03	06:05:00	5.1	08:00:00	86	13:10:00	1.0	20:35:00	.16
01:51:00	.03	06:06:00	5.1	08:01:00	86	13:15:00	1.0	20:40:00	.16
01:55:00	.03	06:10:00	5.9	08:02:00	86	13:20:00	.78	20:45:00	.15
02:00:00	.03	06:11:00	5.9	08:03:00	84	13:25:00	.78	20:50:00	.15
02:02:00	.03	06:12:00	5.9	08:04:00	84	13:30:00	.78	20:55:00	.15
02:03:00	.03	06:14:00	5.9	08:05:00	86	13:35:00	.78	21:00:00	.15
02:04:00	.03	06:15:00	5.9	08:09:00	86	13:40:00	.72	21:05:00	.15
02:05:00	.03	06:20:00	6.4	08:10:00	86	13:45:00	.72	21:10:00	.15
02:08:00	.03	06:22:00	6.4	08:12:00	89	13:50:00	.72	21:15:00	.15
02:10:00	.03	06:23:00	6.4	08:14:00	96	13:55:00	.72	21:20:00	.15
02:15:00	.03	06:24:00	6.4	08:15:00	96	14:00:00	.62	21:25:00	.15
02:20:00	.05	06:25:00	6.4	08:17:00	92	14:05:00	.62	21:30:00	.15
02:22:00	.05	06:30:00	6.9	08:18:00	92	14:10:00	.62	21:35:00	.15
02:25:00	.05	06:32:00	6.9	08:19:00	86	14:15:00	.54	21:40:00	.15
02:30:00	.05	06:35:00	6.9	08:20:00	86	14:20:00	.54	21:45:00	.15
02:35:00	.05	06:37:00	6.6	08:21:00	86	14:25:00	.54	21:50:00	.13
02:37:00	.05	06:39:00	6.6	08:22:00	86	14:30:00	.54	21:55:00	.13
02:40:00	.05	06:40:00	6.6	08:23:00	86	14:35:00	.54	22:00:00	.13
02:45:00	.05	06:41:00	6.6	08:24:00	86	14:40:00	.54	22:05:00	.13
02:50:00	.06	06:42:00	6.6	08:25:00	89	14:45:00	.50	22:10:00	.13
02:55:00	.07	06:43:00	6.6	08:26:00	92	14:50:00	.50	22:15:00	.13
03:00:00	.07	06:44:00	6.6	08:27:00	100	14:55:00	.50	22:20:00	.13
03:05:00	.07	06:45:00	6.6	08:28:00	110	15:00:00	.50	22:25:00	.13
03:10:00	.07	06:46:00	7.2	08:29:00	114	15:05:00	.41	22:30:00	.13
03:15:00	.07	06:47:00	8.2	08:30:00	122	15:10:00	.41	22:35:00	.13
03:20:00	.07	06:48:00	8.6	08:31:00	125	15:15:00	.41	22:40:00	.13
03:25:00	.07	06:49:00	9.7	08:32:00	134	15:20:00	.41	22:45:00	.13
03:26:00	.07	06:50:00	10	08:35:00	142	15:25:00	.41	22:50:00	.13
03:30:00	.06	06:51:00	12	08:36:00	142	15:30:00	.41	22:55:00	.13
03:35:00	.06	06:52:00	19	08:39:00	142	15:35:00	.37	23:00:00	.12
03:40:00	.06	06:53:00	34	08:40:00	142	15:40:00	.37	23:05:00	.12
03:45:00	.05	06:54:00	42	08:44:00	125	15:45:00	.37	23:07:00	.12
03:50:00	.05	06:55:00	59	08:45:00	120	15:50:00	.37	23:10:00	.12
03:55:00	.05	06:56:00	78	08:50:00	94	15:55:00	.33	23:15:00	.12
04:00:00	.05	06:57:00	84	08:55:00	63	16:00:00	.33	23:20:00	.13
04:05:00	.05	06:58:00	96	08:57:00	55	16:05:00	.33	23:25:00	.13
04:10:00	.04	06:59:00	108	09:00:00	40	16:10:00	.33	23:30:00	.13
04:15:00	.04	07:00:00	110	09:05:00	23	16:15:00	.33	23:35:00	.13
04:20:00	.04	07:01:00	120	09:10:00	14	16:20:00	.33	23:40:00	.13
04:25:00	.04	07:02:00	127	09:12:00	12	16:25:00	.33	23:45:00	.13
04:30:00	.04	07:03:00	137	09:15:00	11	16:30:00	.33	23:50:00	.13
04:35:00	.04	07:04:00	145	09:20:00	9.3	16:35:00	.30	23:55:00	.13
04:40:00	.03	07:05:00	145	09:24:00	6.3	16:40:00	.30	23:56:00	.13
04:45:00	.03	07:06:00	150	09:25:00	6.3	16:45:00	.30	23:57:00	.13
04:50:00	.04	07:07:00	158	09:30:00	5.7	16:50:00	.30	23:58:00	.13
04:55:00	.04	07:08:00	158	09:35:00	5.4	16:55:00	.30	24:00:00	.13
04:57:00	.03	07:09:00	158	09:40:00	4.9	17:00:00	.30		
04:59:00	.03	07:10:00	163	09:45:00	4.7	17:05:00	.27		
05:00:00	.03	07:11:00	163	09:50:00	4.5	17:10:00	.27		

FLOOD-HYDROGRAPH STATION

070302481 WEST BEAVER CREEK CANAL TRIBUTARY AT MOFFATT FARM--Continued

UNIT DISCHARGE (CUBIC FEET/SECOND)

AUGUST 2, 1993

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
01:00:00	.00	01:37:00	73	02:50:00	2.3	05:40:00	.05	08:30:00	.02
01:02:00	.00	01:39:00	73	02:55:00	2.0	05:45:00	.05	08:35:00	.02
01:03:00	.00	01:40:00	73	03:00:00	1.7	05:50:00	.05	08:40:00	.02
01:04:00	.00	01:45:00	78	03:05:00	1.4	05:55:00	.05	08:45:00	.02
01:05:00	.00	01:46:00	80	03:10:00	1.2	06:00:00	.04	08:50:00	.02
01:06:00	.00	01:50:00	71	03:15:00	1.0	06:05:00	.04	08:55:00	.02
01:07:00	.00	01:51:00	65	03:20:00	.78	06:10:00	.04	09:00:00	.02
01:08:00	.00	01:52:00	61	03:25:00	.62	06:15:00	.04	09:05:00	.02
01:09:00	.00	01:53:00	55	03:30:00	.54	06:20:00	.04	09:10:00	.02
01:10:00	.04	01:55:00	49	03:35:00	.45	06:25:00	.04	09:15:00	.02
01:11:00	.22	01:56:00	38	03:40:00	.37	06:30:00	.04	09:20:00	.02
01:12:00	.41	01:57:00	32	03:45:00	.30	06:35:00	.04	09:25:00	.02
01:13:00	.58	01:58:00	30	03:50:00	.27	06:40:00	.03	09:30:00	.02
01:14:00	.72	01:59:00	24	03:55:00	.22	06:45:00	.03	09:35:00	.02
01:15:00	1.0	02:00:00	22	04:00:00	.20	06:50:00	.03	09:40:00	.02
01:16:00	1.2	02:01:00	19	04:05:00	.18	06:55:00	.03	09:45:00	.02
01:17:00	1.6	02:02:00	17	04:10:00	.16	07:00:00	.03	09:50:00	.02
01:18:00	2.5	02:03:00	15	04:15:00	.15	07:05:00	.03	09:55:00	.02
01:19:00	3.1	02:04:00	13	04:20:00	.13	07:10:00	.03	10:00:00	.02
01:20:00	4.5	02:05:00	12	04:25:00	.12	07:15:00	.03	11:00:00	.02
01:21:00	6.4	02:06:00	11	04:30:00	.11	07:20:00	.03	12:00:00	.01
01:22:00	10	02:07:00	10	04:35:00	.10	07:25:00	.03	13:00:00	.01
01:23:00	12	02:08:00	10	04:40:00	.09	07:30:00	.03	14:00:00	.01
01:24:00	15	02:09:00	7.7	04:45:00	.09	07:35:00	.03	15:00:00	.01
01:25:00	17	02:10:00	6.6	04:50:00	.09	07:40:00	.03	16:00:00	.01
01:26:00	18	02:11:00	6.3	04:55:00	.08	07:45:00	.03	17:00:00	.00
01:27:00	19	02:15:00	5.6	05:00:00	.08	07:50:00	.03	18:00:00	.00
01:30:00	19	02:17:00	5.1	05:05:00	.07	07:55:00	.03	19:00:00	.00
01:31:00	27	02:20:00	4.8	05:10:00	.07	08:00:00	.03	20:00:00	.00
01:32:00	37	02:25:00	4.1	05:15:00	.07	08:05:00	.03	21:00:00	.00
01:33:00	49	02:30:00	3.3	05:20:00	.06	08:10:00	.02	22:00:00	.00
01:34:00	59	02:35:00	3.2	05:25:00	.06	08:15:00	.02	23:00:00	.00
01:35:00	65	02:40:00	3.0	05:30:00	.06	08:20:00	.02	24:00:00	.00
01:36:00	69	02:45:00	2.6	05:35:00	.05	08:25:00	.02		

MAY 13, 1994

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
01:00:00	.00	09:33:00	32	11:15:00	3.0	15:35:00	.13	19:55:00	.06
02:00:00	.00	09:34:00	51	11:20:00	2.7	15:40:00	.12	20:00:00	.06
03:00:00	.00	09:35:00	78	11:25:00	2.5	15:45:00	.12	20:05:00	.06
04:00:00	.00	09:36:00	88	11:30:00	2.4	15:50:00	.12	20:10:00	.06
05:00:00	.00	09:37:00	108	11:35:00	2.2	15:55:00	.12	20:15:00	.06
06:00:00	.00	09:38:00	129	11:40:00	2.1	16:00:00	.11	20:20:00	.06
07:00:00	.00	09:39:00	145	11:45:00	1.9	16:05:00	.11	20:25:00	.06
08:00:00	.00	09:40:00	150	11:50:00	1.8	16:10:00	.11	20:30:00	.06
08:48:00	.00	09:54:00	172	11:55:00	1.6	16:15:00	.11	20:35:00	.06
08:49:00	.00	09:55:00	163	12:00:00	1.5	16:20:00	.10	20:40:00	.05
08:50:00	.00	09:56:00	153	12:05:00	1.3	16:25:00	.10	20:45:00	.05
08:51:00	.00	09:57:00	145	12:10:00	1.3	16:30:00	.10	20:50:00	.05
08:52:00	.00	09:58:00	129	12:15:00	1.1	16:35:00	.10	20:55:00	.05
08:53:00	.00	09:59:00	122	12:20:00	1.1	16:40:00	.10	21:00:00	.05
08:54:00	.00	10:00:00	114	12:25:00	1.0	16:45:00	.09	21:05:00	.05
08:55:00	.00	10:01:00	108	12:30:00	.85	16:50:00	.09	21:10:00	.05
08:56:00	.00	10:02:00	100	12:35:00	.78	16:55:00	.09	21:15:00	.05
08:57:00	.00	10:03:00	88	12:40:00	.72	17:00:00	.09	21:20:00	.05
08:58:00	.00	10:04:00	80	12:45:00	.67	17:05:00	.09	21:25:00	.05
08:59:00	.00	10:05:00	71	12:50:00	.62	17:10:00	.09	21:30:00	.05
09:00:00	.00	10:06:00	67	12:55:00	.58	17:15:00	.09	21:35:00	.05
09:01:00	.00	10:07:00	57	13:00:00	.58	17:20:00	.09	21:40:00	.05
09:02:00	.00	10:08:00	51	13:05:00	.54	17:25:00	.09	21:45:00	.05
09:03:00	.00	10:09:00	42	13:10:00	.50	17:30:00	.09	21:50:00	.05
09:04:00	.02	10:10:00	40	13:15:00	.45	17:35:00	.08	21:55:00	.05
09:05:00	.06	10:11:00	34	13:20:00	.45	17:40:00	.08	22:00:00	.05
09:06:00	.10	10:12:00	30	13:25:00	.41	17:45:00	.08	22:05:00	.05
09:07:00	.15	10:14:00	23	13:30:00	.37	17:50:00	.08	22:10:00	.05
09:08:00	.20	10:15:00	21	13:35:00	.37	17:55:00	.08	22:15:00	.05
09:10:00	.27	10:16:00	19	13:40:00	.33	18:00:00	.07	22:20:00	.05
09:11:00	.33	10:17:00	16	13:45:00	.33	18:05:00	.07	22:25:00	.05
09:12:00	.45	10:19:00	14	13:50:00	.30	18:10:00	.07	22:30:00	.05
09:13:00	.50	10:20:00	13	13:55:00	.30	18:15:00	.07	22:35:00	.05
09:14:00	.54	10:21:00	12	14:00:00	.27	18:20:00	.07	22:40:00	.05
09:15:00	.58	10:22:00	10	14:05:00	.27	18:25:00	.07	22:45:00	.05
09:16:00	.62	10:23:00	10	14:10:00	.25	18:30:00	.07	22:50:00	.04
09:17:00	.67	10:25:00	9.7	14:15:00	.25	18:35:00	.07	22:55:00	.04
09:18:00	.72	10:26:00	8.8	14:20:00	.22	18:40:00	.07	23:00:00	.04
09:19:00	.78	10:27:00	8.2	14:25:00	.22	18:45:00	.07	23:05:00	.04
09:20:00	1.2	10:30:00	6.9	14:30:00	.20	18:50:00	.06	23:10:00	.04
09:21:00	1.7	10:31:00	6.4	14:35:00	.20	18:55:00	.06	23:15:00	.04
09:22:00	2.2	10:35:00	5.7	14:40:00	.18	19:00:00	.06	23:20:00	.04
09:23:00	2.5	10:36:00	5.4	14:45:00	.18	19:05:00	.06	23:25:00	.04
09:24:00	3.2	10:38:00	5.2	14:50:00	.18	19:10:00	.06	23:30:00	.04
09:25:00	3.6	10:40:00	5.1	14:55:00	.16	19:15:00	.06	23:35:00	.04
09:26:00	4.2	10:45:00	4.7	15:00:00	.16	19:20:00	.06	23:40:00	.04
09:27:00	4.5	10:50:00	4.3	15:05:00	.16	19:25:00	.06	23:45:00	.04
09:28:00	5.4	10:55:00	4.2	15:10:00	.15	19:30:00	.06	23:50:00	.04
09:29:00	6.3	10:56:00	3.8	15:15:00	.15	19:35:00	.06	23:55:00	.04
09:30:00	9.0	11:00:00	3.7	15:20:00	.15	19:40:00	.06	24:00:00	.04
09:31:00	12	11:05:00	3.2	15:25:00	.13	19:45:00	.06		
09:32:00	19	11:10:00	3.1	15:30:00	.13	19:50:00	.06		

LOOSAHATCHIE RIVER BASIN

FLOOD-HYDROGRAPH STATION

070302481 WEST BEAVER CREEK CANAL TRIBUTARY AT MOFFATT FARM--Continued

UNIT DISCHARGE (CUBIC FEET/SECOND)

AUGUST 10, 1995

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
00:05:00	.00	04:55:00	.01	09:45:00	.01	14:35:00	.01	19:25:00	.00
00:10:00	.00	05:00:00	.01	09:50:00	.01	14:40:00	.01	19:30:00	.00
00:15:00	.00	05:05:00	.01	09:55:00	.01	14:45:00	.01	19:35:00	.00
00:20:00	.00	05:10:00	.01	10:00:00	.01	14:50:00	.01	19:40:00	.00
00:25:00	.00	05:15:00	.01	10:05:00	.01	14:55:00	.01	19:45:00	.00
00:30:00	.00	05:20:00	.01	10:10:00	.01	15:00:00	.01	19:50:00	.00
00:35:00	.00	05:25:00	.01	10:15:00	.01	15:05:00	.01	19:55:00	.00
00:40:00	.00	05:30:00	.01	10:20:00	.01	15:10:00	.01	20:00:00	.00
00:45:00	.00	05:35:00	.01	10:25:00	.01	15:15:00	.01	20:05:00	.00
00:50:00	.00	05:40:00	.01	10:30:00	.01	15:20:00	.01	20:10:00	.00
00:55:00	.00	05:45:00	.01	10:35:00	.01	15:25:00	.01	20:15:00	.00
01:00:00	.00	05:50:00	.01	10:40:00	.01	15:30:00	.01	20:20:00	.00
01:05:00	.00	05:55:00	.01	10:45:00	.01	15:35:00	.01	20:25:00	.00
01:10:00	.00	06:00:00	.01	10:50:00	.01	15:40:00	.01	20:30:00	.00
01:15:00	.00	06:05:00	.01	10:55:00	.01	15:45:00	.01	20:35:00	.00
01:20:00	.00	06:10:00	.01	11:00:00	.01	15:50:00	.01	20:40:00	.00
01:25:00	.00	06:15:00	.01	11:05:00	.01	15:55:00	.01	20:45:00	.00
01:30:00	.00	06:20:00	.01	11:10:00	.01	16:00:00	.00	20:50:00	.00
01:35:00	.00	06:25:00	.01	11:15:00	.01	16:05:00	.00	20:55:00	.00
01:40:00	.00	06:30:00	.01	11:20:00	.01	16:10:00	.00	21:00:00	.00
01:45:00	.00	06:35:00	.01	11:25:00	.01	16:15:00	.00	21:05:00	.00
01:50:00	.00	06:40:00	.01	11:30:00	.01	16:20:00	.00	21:10:00	.00
01:55:00	.00	06:45:00	.01	11:35:00	.01	16:25:00	.00	21:15:00	.00
02:00:00	.00	06:50:00	.01	11:40:00	.01	16:30:00	.00	21:20:00	.00
02:05:00	.00	06:55:00	.01	11:45:00	.01	16:35:00	.00	21:25:00	.00
02:10:00	.00	07:00:00	.01	11:50:00	.01	16:40:00	.00	21:30:00	.00
02:15:00	.00	07:05:00	.01	11:55:00	.01	16:45:00	.00	21:35:00	.00
02:20:00	.00	07:10:00	.01	12:00:00	.01	16:50:00	.00	21:40:00	.00
02:25:00	.00	07:15:00	.01	12:05:00	.01	16:55:00	.00	21:45:00	.00
02:30:00	.00	07:20:00	.01	12:10:00	.01	17:00:00	.00	21:50:00	.00
02:35:00	.00	07:25:00	.01	12:15:00	.01	17:05:00	.00	21:55:00	.03
02:40:00	.00	07:30:00	.01	12:20:00	.01	17:10:00	.00	22:00:00	.41
02:45:00	.00	07:35:00	.01	12:25:00	.01	17:15:00	.00	22:05:00	2.0
02:50:00	.00	07:40:00	.01	12:30:00	.01	17:20:00	.00	22:10:00	12
02:55:00	.00	07:45:00	.01	12:35:00	.01	17:25:00	.00	22:15:00	112
03:00:00	.00	07:50:00	.01	12:40:00	.01	17:30:00	.00	22:20:00	235
03:05:00	.00	07:55:00	.01	12:45:00	.01	17:35:00	.00	22:25:00	395
03:10:00	.00	08:00:00	.01	12:50:00	.01	17:40:00	.00	22:30:00	459
03:15:00	.00	08:05:00	.01	12:55:00	.01	17:45:00	.00	22:35:00	452
03:20:00	.01	08:10:00	.01	13:00:00	.01	17:50:00	.00	22:40:00	349
03:25:00	.01	08:15:00	.01	13:05:00	.01	17:55:00	.00	22:45:00	247
03:30:00	.01	08:20:00	.01	13:10:00	.01	18:00:00	.00	22:50:00	175
03:35:00	.01	08:25:00	.01	13:15:00	.01	18:05:00	.00	22:55:00	118
03:40:00	.01	08:30:00	.01	13:20:00	.01	18:10:00	.00	23:00:00	73
03:45:00	.01	08:35:00	.01	13:25:00	.01	18:15:00	.00	23:05:00	34
03:50:00	.01	08:40:00	.01	13:30:00	.01	18:20:00	.00	23:10:00	19
03:55:00	.01	08:45:00	.01	13:35:00	.01	18:25:00	.00	23:15:00	13
04:00:00	.01	08:50:00	.01	13:40:00	.01	18:30:00	.00	23:20:00	10
04:05:00	.01	08:55:00	.01	13:45:00	.01	18:35:00	.00	23:25:00	8.2
04:10:00	.01	09:00:00	.01	13:50:00	.01	18:40:00	.00	23:30:00	6.0
04:15:00	.01	09:05:00	.01	13:55:00	.01	18:45:00	.00	23:35:00	5.0
04:20:00	.01	09:10:00	.01	14:00:00	.01	18:50:00	.00	23:40:00	4.8
04:25:00	.01	09:15:00	.01	14:05:00	.01	18:55:00	.00	23:45:00	4.4
04:30:00	.01	09:20:00	.01	14:10:00	.01	19:00:00	.00	23:50:00	3.9
04:35:00	.01	09:25:00	.01	14:15:00	.01	19:05:00	.00	23:55:00	3.6
04:40:00	.01	09:30:00	.01	14:20:00	.01	19:10:00	.00	24:00:00	3.5
04:45:00	.01	09:35:00	.01	14:25:00	.01	19:15:00	.00		
04:50:00	.01	09:40:00	.01	14:30:00	.01	19:20:00	.00		

LOOSAHATCHIE RIVER BASIN

070302481 - WEST BEAVER CREEK CANAL TRIBUTARY AT MOFFATT FARM NEAR MADGE, TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1990 to March 1993 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)
MAR									
18...	0255	80020	--	<0.010	--	0.730	0.730	12.0	0.06
18...	0300	80020	0.690	0.010	0.03	0.700	0.700	0.060	0.08
18...	0530	80020	0.890	0.020	0.07	0.910	0.910	0.120	0.18
18...	0540	80020	0.840	0.010	0.03	0.850	0.850	0.110	0.15
18...	1000	80020	0.840	0.010	0.03	0.850	0.850	0.130	0.09
18...	1005	80020	0.860	0.010	0.03	0.870	0.870	0.130	0.09
18...	1010	80020	0.890	0.010	0.03	0.900	0.900	0.050	0.06
18...	1015	80020	0.920	0.010	0.03	0.930	0.930	0.050	0.06
18...	1020	80020	0.950	0.010	0.03	0.960	0.960	0.050	0.08
18...	1025	80020	0.970	0.010	0.03	0.980	0.980	0.100	0.09
18...	1030	80020	0.990	0.010	0.03	1.00	1.00	0.100	0.09
18...	1035	80020	0.990	0.010	0.03	1.00	1.00	0.100	0.08
18...	1040	80020	1.09	0.010	0.03	1.10	1.10	0.050	0.08
18...	1045	80020	1.09	0.010	0.03	1.10	1.10	0.040	0.06
18...	1050	80020	1.09	0.010	0.03	1.10	1.10	0.090	0.09
18...	1055	80020	1.09	0.010	0.03	1.10	1.10	0.120	0.09
18...	1140	80020	1.29	0.010	0.03	1.30	1.30	0.110	0.09
18...	1145	80020	1.29	0.010	0.03	1.30	1.30	0.090	0.09
18...	1150	80020	1.39	0.010	0.03	1.40	1.40	0.090	0.09
18...	1155	80020	1.39	0.010	0.03	1.40	1.40	0.080	0.09
18...	1200	80020	1.39	0.010	0.03	1.40	1.40	0.080	0.08
18...	1205	80020	--	<0.010	--	1.40	1.40	0.070	0.10
18...	1210	--	--	--	--	--	--	--	--
18...	1215	80020	1.49	0.010	0.03	1.50	1.50	0.040	0.05
18...	1220	80020	1.48	0.020	0.07	1.50	1.50	0.090	0.10
18...	1225	80020	1.48	0.020	0.07	1.50	1.50	0.030	0.05
18...	1230	80020	--	<0.010	--	1.50	1.50	0.030	0.05
18...	1235	80020	--	<0.010	--	1.50	1.50	0.190	0.09

LOOSAHATCHIE RIVER BASIN

070302481 - WEST BEAVER CREEK CANAL TRIBUTARY AT MOFFATT FARM NEAR MADGE, TN--Continued

WATER-QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO-GEN, ORGANIC 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)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORGANIC TOTAL (MG/L AS P)
MAR									
18...	0.55	0.050	15	25	110	7.50	0.070	0.040	0.0
18...	0.54	0.060	1.3	2.0	9.0	0.630	0.060	0.040	0.60
18...	0.56	0.140	1.1	2.0	9.0	0.290	0.060	0.040	0.25
18...	0.58	0.120	1.0	1.8	8.2	0.320	0.060	0.040	0.28
18...	0.33	0.070	0.80	1.6	7.2	0.510	0.100	0.080	0.45
18...	0.33	0.070	0.90	1.8	7.8	0.570	0.100	0.080	0.51
18...	0.35	0.050	0.90	1.8	8.1	0.470	0.090	0.070	0.41
18...	0.45	0.050	0.70	1.6	7.2	0.410	0.090	0.070	0.35
18...	0.44	0.060	0.90	1.8	8.2	0.540	0.090	0.070	0.48
18...	0.53	0.070	0.70	1.7	7.4	0.380	0.100	0.080	0.32
18...	0.43	0.070	0.80	1.8	8.0	0.410	0.080	0.070	0.35
18...	0.44	0.060	0.80	1.8	8.0	0.400	0.090	0.070	0.34
18...	0.44	0.060	0.70	1.8	8.0	0.390	0.090	0.070	0.33
18...	0.35	0.050	0.90	2.0	8.9	0.400	0.070	0.070	0.34
18...	0.53	0.070	0.80	1.9	8.4	0.340	0.080	0.090	0.28
18...	0.33	0.070	0.70	1.8	8.0	0.340	0.070	0.090	0.16
18...	0.43	0.070	1.0	2.3	10	0.390	0.090	0.090	0.22
18...	0.43	0.070	0.70	2.1	9.3	0.320	0.100	0.100	0.16
18...	0.33	0.070	0.80	2.2	9.7	0.340	0.090	0.090	0.18
18...	0.43	0.070	0.80	2.2	9.7	0.370	0.100	0.100	0.22
18...	0.44	0.060	0.80	2.2	9.7	0.340	0.100	0.100	0.18
18...	0.42	0.080	1.1	2.5	11	0.510	0.090	0.070	0.45
18...	--	--	--	--	--	--	--	--	--
18...	0.46	0.040	1.1	2.6	12	0.540	0.090	0.070	0.48
18...	0.32	0.080	1.0	2.5	11	0.480	0.090	0.070	0.42
18...	0.46	0.040	1.0	2.5	11	0.590	0.080	0.050	0.54
18...	0.36	0.040	0.60	2.2	9.7	0.330	0.080	0.060	0.28
18...	0.43	0.070	0.70	2.2	9.7	0.470	0.100	0.070	0.16

FLOOD-HYDROGRAPH STATION

07030249 MIDDLE BEAVER CREEK CANAL TRIBUTARY AT WILSON FARM NEAR MADGE, TN

LOCATION.--Lat 35°20'58", long 89°40'29", Shelby County, Hydrologic Unit 08010209, on Collierville-Arlington road, 2.6 mi north of the intersection of Highway 70-79 and Collierville-Arlington road in Arlington, 2.3 mi south of Madge, 1.2 mi west of the confluence of West Beaver Creek canal and Middle Beaver Creek canal.

DRAINAGE AREA.--0.66 mi².

PERIOD OF RECORD.--February 1990 to August 1995 (discontinued).

GAGE.--Water stage recorder. Datum of gage 280 ft, above sea level, from topographic map.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 432 ft³/s, Dec. 21, 1990, gage height, 10.56.

EXTEMES FOR CURRENT PERIOD.--Water Year 1992: Maximum discharge, 224 ft³/s, Dec. 2, gage height, 8.78.

Water Year 1993: Maximum discharge, 121 ft³/s, Apr. 9, gage height, 7.08.

Water Year 1994: Maximum discharge, 126 ft³/s, May 13, gage height, 7.19.

Water Year 1995: Maximum discharge, 228 ft³/s, Aug. 5, gage height, 8.83.

UNIT DISCHARGE (CUBIC FEET/SECOND)

DECEMBER 2, 1991

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
00:30:00	5.0	05:30:00	3.0	11:00:00	7.8	16:00:00	206	21:00:00	37
01:00:00	4.6	06:00:00	2.8	11:30:00	24	16:30:00	185	21:30:00	30
01:30:00	4.2	07:00:00	2.4	12:00:00	60	17:00:00	161	22:00:00	25
02:00:00	3.9	07:30:00	2.3	12:30:00	114	17:30:00	142	22:30:00	21
02:30:00	3.8	08:00:00	2.0	13:00:00	151	18:00:00	125	23:00:00	18
03:00:00	3.6	08:30:00	1.8	13:30:00	184	18:30:00	106	23:30:00	15
03:30:00	3.6	09:00:00	1.8	14:00:00	213	19:00:00	85	24:00:00	13
04:00:00	3.6	09:30:00	1.6	14:30:00	223	19:30:00	67		
04:30:00	3.4	10:00:00	1.5	15:00:00	224	20:00:00	54		
05:00:00	3.2	10:30:00	1.8	15:30:00	220	20:30:00	44		

APRIL 9, 1993

00:01:00	13	04:45:00	93	09:45:00	23	14:45:00	9.7	19:45:00	3.2
00:15:00	16	05:00:00	83	10:00:00	22	15:00:00	9.2	20:00:00	3.1
00:30:00	21	05:15:00	74	10:15:00	21	15:15:00	8.8	20:15:00	2.9
00:45:00	28	05:30:00	66	10:30:00	21	15:30:00	8.3	20:30:00	2.8
01:00:00	36	05:45:00	59	10:45:00	20	15:45:00	7.8	20:45:00	2.8
01:15:00	46	06:00:00	53	11:00:00	19	16:00:00	7.3	21:00:00	2.6
01:30:00	56	06:15:00	48	11:15:00	18	16:15:00	7.0	21:15:00	2.5
01:45:00	66	06:30:00	44	11:30:00	17	16:30:00	6.5	21:30:00	2.3
02:00:00	74	06:45:00	41	11:45:00	16	16:45:00	6.3	21:45:00	2.2
02:15:00	82	07:00:00	37	12:00:00	15	17:00:00	5.8	22:00:00	2.1
02:30:00	93	07:15:00	34	12:15:00	15	17:15:00	5.6	22:15:00	2.0
02:45:00	103	07:30:00	31	12:30:00	14	17:30:00	5.2	22:30:00	1.9
03:00:00	112	07:45:00	28	12:45:00	14	17:45:00	5.0	22:45:00	1.8
03:15:00	118	08:00:00	26	13:00:00	13	18:00:00	4.8	23:00:00	1.8
03:30:00	120	08:15:00	25	13:15:00	13	18:15:00	4.5	23:15:00	1.7
03:31:00	121	08:30:00	25	13:30:00	13	18:30:00	4.2	23:30:00	1.6
03:45:00	120	08:45:00	24	13:45:00	12	18:45:00	4.0	23:45:00	1.5
04:00:00	117	09:00:00	24	14:00:00	11	19:00:00	3.9	24:00:00	1.5
04:15:00	111	09:15:00	24	14:15:00	11	19:15:00	3.6		
04:30:00	103	09:30:00	24	14:30:00	9.9	19:30:00	3.4		

FLOOD-HYDROGRAPH STATION

07030249 MIDDLE BEAVER CREEK CANAL TRIBUTARY AT WILSON FARM NEAR MADGE, TN--Continued

UNIT DISCHARGE (CUBIC FEET/SECOND)

TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE
				MAY 13, 1994					
09:09:00	.00	10:21:00	102	13:31:00	81	14:45:00	36	18:45:00	4.2
09:11:00	.00	10:23:00	104	13:33:00	79	14:47:00	35	18:55:00	3.9
09:13:00	.10	10:25:00	107	13:35:00	77	14:49:00	34	19:05:00	3.6
09:15:00	.45	10:29:00	110	13:37:00	76	14:53:00	33	19:15:00	3.4
09:17:00	1.3	10:33:00	113	13:39:00	74	14:55:00	32	19:25:00	3.2
09:19:00	2.9	10:35:00	114	13:41:00	73	14:59:00	30	19:35:00	3.0
09:21:00	4.9	10:45:00	118	13:43:00	71	15:01:00	29	19:45:00	2.9
09:23:00	6.3	10:55:00	121	13:45:00	70	15:03:00	29	19:55:00	2.8
09:25:00	7.5	11:05:00	121	13:47:00	68	15:05:00	28	20:05:00	2.7
09:27:00	8.8	11:15:00	120	13:49:00	67	15:09:00	27	20:15:00	2.6
09:29:00	9.5	11:25:00	119	13:51:00	65	15:11:00	26	20:25:00	2.4
09:31:00	10	11:35:00	121	13:53:00	64	15:13:00	26	20:35:00	2.3
09:33:00	11	11:45:00	122	13:55:00	63	15:15:00	25	20:45:00	2.2
09:35:00	12	11:55:00	125	13:57:00	62	15:17:00	24	20:55:00	2.2
09:37:00	13	12:05:00	126	13:59:00	60	15:19:00	24	21:05:00	2.1
09:39:00	14	12:15:00	125	14:01:00	59	15:25:00	22	21:15:00	2.0
09:41:00	16	12:25:00	124	14:03:00	58	15:27:00	21	21:25:00	1.9
09:43:00	18	12:35:00	120	14:05:00	56	15:35:00	19	21:35:00	1.8
09:45:00	21	12:45:00	115	14:07:00	55	15:45:00	17	21:45:00	1.8
09:47:00	26	12:55:00	109	14:09:00	54	15:55:00	15	21:55:00	1.8
09:49:00	32	12:57:00	107	14:11:00	53	16:05:00	14	22:05:00	1.7
09:51:00	39	12:59:00	104	14:13:00	52	16:15:00	13	22:15:00	1.6
09:53:00	48	13:03:00	103	14:15:00	51	16:25:00	11	22:25:00	1.5
09:55:00	55	13:05:00	101	14:17:00	50	16:35:00	11	22:35:00	1.5
09:57:00	62	13:07:00	99.6	14:19:00	48	16:45:00	9.8	22:45:00	1.5
09:59:00	67	13:09:00	98	14:21:00	47	16:55:00	9.0	22:55:00	1.4
10:01:00	72	13:11:00	96	14:23:00	46	17:05:00	8.4	23:05:00	1.4
10:03:00	77	13:13:00	95	14:25:00	45	17:15:00	7.8	23:15:00	1.4
10:05:00	80	13:15:00	93	14:27:00	44	17:25:00	7.2	23:25:00	1.4
10:07:00	84	13:17:00	92	14:29:00	43	17:35:00	6.8	23:35:00	1.3
10:09:00	87	13:19:00	90	14:31:00	42	17:45:00	6.3	23:45:00	1.2
10:11:00	89	13:21:00	88	14:33:00	41	17:55:00	5.9	23:55:00	1.2
10:13:00	92	13:23:00	87	14:35:00	40	18:05:00	5.4	24:00:00	1.2
10:15:00	95	13:25:00	85	14:37:00	39	18:15:00	5.1		
10:17:00	97	13:27:00	84	14:41:00	37	18:25:00	4.8		
10:19:00	99	13:29:00	82	14:43:00	37	18:35:00	4.5		
				AUGUST 5, 1995					
00:15:00	8.0	05:15:00	136	10:15:00	107	15:15:00	12	20:15:00	3.2
00:30:00	8.0	05:30:00	153	10:30:00	84	15:30:00	11	20:30:00	3.1
00:45:00	8.2	05:45:00	168	10:45:00	67	15:45:00	9.8	20:45:00	3.0
01:00:00	8.8	06:00:00	183	11:00:00	55	16:00:00	8.9	21:00:00	2.8
01:15:00	9.3	06:15:00	197	11:15:00	48	16:15:00	8.3	21:15:00	2.8
01:30:00	9.8	06:30:00	209	11:30:00	42	16:30:00	7.7	21:30:00	2.7
01:45:00	10	06:45:00	217	11:45:00	38	16:45:00	7.2	21:45:00	2.6
02:00:00	11	07:00:00	224	12:00:00	34	17:00:00	6.8	22:00:00	2.4
02:15:00	12	07:15:00	227	12:15:00	31	17:15:00	6.3	22:15:00	2.3
02:30:00	14	07:30:00	228	12:30:00	28	17:30:00	5.9	22:30:00	2.3
02:45:00	16	07:45:00	227	12:45:00	27	17:45:00	5.6	22:45:00	2.2
03:00:00	18	08:00:00	225	13:00:00	25	18:00:00	5.2	23:00:00	2.1
03:15:00	21	08:15:00	221	13:15:00	22	18:15:00	4.9	23:15:00	2.1
03:30:00	25	08:30:00	215	13:30:00	20	18:30:00	4.7	23:30:00	2.0
03:45:00	35	08:45:00	207	13:45:00	19	18:45:00	4.5	23:45:00	1.9
04:00:00	49	09:00:00	198	14:00:00	17	19:00:00	4.2	24:00:00	1.9
04:15:00	59	09:15:00	185	14:15:00	16	19:15:00	4.0		
04:30:00	76	09:30:00	169	14:30:00	15	19:30:00	3.8		
04:45:00	95	09:45:00	151	14:45:00	14	19:45:00	3.5		
05:00:00	117	10:00:00	130	15:00:00	12	20:00:00	3.4		

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 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.

Records collected at crest-stage partial-record stations are presented in the following table. Discharge measurements made at low-flow partial-record sites and at miscellaneous sites and for special studies are given in separate tables.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device that will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from current meter or indirect measurements of peak flow. 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.

Maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
CUMBERLAND RIVER BASIN								
Whiteoak Creek at Sunbright, TN (03409000)	Lat 36°14'38", long 84°40'14", Morgan County, Hydrologic Unit 05130104, at bridge on U.S. Highway 27 in Sunbright. Datum of gage is 1,294.05 ft above sea level. Drainage area is 13.5 mi^2.	1934, 1955-82, 1985-95	1-14-95	7.99	-	5-27-73	17.24a	5,560
East Fork Obey River near Jamestow , TN (03414500)	Lat 36°24'58", long 85°01'35", Fentress County, Hydrologic Unit 05130105, on right bank 200 ft upstream from bridge on State Highway 52, 0.5 mi upstream from Poplar Cove Creek, 5.3 mi west of Jamestown, and at mile 12.7. Datum of gage is 680.30 ft, Sandy Hook Datum. Drainage area is 202 mi^2 includes 6.0 mi^2 without surface drainage.	1942-91†, 1992-95	3- 8-95	12.67	7,790	5-27-73	30.46	44,800
Wolf River near Byrdstown, TN (03416000)	Lat 36°33'37", long 85°04'23", Pickett County, Hydrologic Unit 05130105, on right bank 0.3 mi upstream from bridge on county road, 0.5 mi upstream from Widow Creek, 3.2 mi east of Byrdstown, 5.4 mi upstream from Lick Creek, and at mi 26.2. Datum of gage is 707.54 ft, Sandy Hook Datum. Drainage area is 106 mi^2.	1942-91†, 1992-95	3- 8-95 5-28-95	6.27	3,720	9- 2-82	17.14	23,500

See footnotes at the end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
		CUMBERLAND RIVER BASIN--Continued						
Roaring River above Gainesboro, TN (03418070)	Lat 36°21'04", long 85°32'45", Jackson County, Hydrologic Unit 05130106, near left bank of downstream end of county road bridge, 1.1 mi upstream from Blackburn Fork, 6.3 mi east of Gainesboro, and at mi 9.1. Datum of gage is 520.56 ft, above sea level. Drainage area is 210 mi^2, includes 34 mi^2 without surface drainage.	1974-91†, 1992-95	3- 8-95	11.77	5,030	3-12-75	21.83	22,400
Doe Creek at Gainesboro, TN (03418201)	Lat 36°21'23", long 85°39'20", Jackson County, Hydrologic Unit 05130106, at bridge on Highway 56, at Gainesboro. Datum of gage is 519.37 ft above sea level. Drainage area is 5.72 mi^2.	1978-95	1995	<3.81	-	8-31-82	7.28	-
Charles Creek near McMinnville, TN (03421200)	Lat 35°43'00", long 85°46'05", Warren County, Hydrologic Unit 05130107, at bridge on county road at Faulkner Springs, 2.7 mi north of McMinnville. Drainage area is 31.1 mi^2.	1955-95	5- 9-95	10.68	4,660	6-22-89	17.03	24,800
Mulherrin Creek near Gordonsville, TN (03424900)	Lat 36°11'28", long 85°57'11", Smith County, Hydrologic Unit 05130108, at bridge on State Highway 53, 1.3 mi upstream from mouth, 1.5 mi northwest of Gordonsville. Drainage area is 26.9 mi^2.	1982, 1986-95	5-14-95	19.37	-	2-14-89	23.85	-
Peyton Creek at Monoville, TN (03425045)	Lat 36°18'37", long 85°59'21", Smith County, Hydrologic Unit 05130201, at county road bridge 0.9, mi northwest of Monoville. Datum of gage is 459.39 ft above sea level. Drainage area is 44.7 mi^2.	1986-95	3- 8-95	32.93	-	3- 6-89	40.41	-
Second Creek near Walnut Grove, TN (03425365)	Lat 36°24'01", long 86°12'48", Trousdale County, Hydrologic Unit 05130201, at culvert on State Highways 10 and 25, 2.6 mi west of Hartsville. Drainage area is 3.47 mi^2.	1986-95	11-27-94	28.27	-	9-23-89	29.24	-
Station Camp Creek at Cottontown, TN (03425637)	Lat 36°27'06", long 86°32'16", Sumner County, Hydrologic Unit 05130201, at State Highway 25 bridge in Cottontown.	1995	11-27-94	14.73	-			

See footnotes at the end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
		CUMBERLAND RIVER BASIN--Continued						
East Fork Stones River at Woodbury, TN (03426800)	Lat 35°49'41", long 86°04'36", Cannon County, Hydrologic Unit 05130203, at bridge on U.S. Highway 70S at Woodbury. Datum of gage is 676.23 ft above sea level. Drainage area is 39.1 mi^2.	1962-89†, 1990-95	5-14-95	11.15	3,160	3-15-73	16.75	13,200
Brawleys Fork below Bradyville, TN (03426874)	Lat 35°44'44", long 86°10'14", Cannon County, Hydrologic Unit 05130203, at bridge on Bradyville Pike, 0.5 mi northwest of Bradyville. Drainage area is 15.4 mi^2.	1983-95	11-27-94	23.60	1,720	10- 1-89	27.94	2,850
Reed Creek near Bradyville, TN (034269424)	Lat 35°44'44", long 86°12'31", Rutherford County, Hydrologic Unit 05130203, at bridge on Bradyville Pike, 2.4 mi northwest of Bradyville. Drainage area is 3.52 mi^2.	1983-95	4-20-95	5.86	-	4-20-95	5.86	-
East Fork Stones River near Lascassas, TN (03427500)	Lat 35°55'06", long 86°20'02", Rutherford County, Hydrologic Unit 05130203, on left bank 50 ft upstream from highway bridge, 2.5 mi southwest of Lascassas, 3.7 mi downstream of Bradley Creek, 6.0 mi northeast of the courthouse in Murfreesboro, and at mi 15.4. Datum of gage is 507.88 ft, Sandy Hook Datum. Drainage area is 262 mi^2.	1950-58†, 1963-91†, 1992-95	5-14-95	22.66	11,700	3-13-75	39.48	41,200
Bushman Creek at Pitts Lane Ford near Compton, TN (03427690)	Lat 35°53'08", long 86°20'47", Rutherford County, Hydrologic Unit 05130203, on right bank 75 ft upstream of bridge on De Jarnett Lane, 0.1 mi west of intersection of De Jarnett Lane and State Highway 96, 1.6 mi southwest of Compton. Datum of gage is 569.74 ft above sea level. Drainage area is 9.67 mi^2.	1989-92†, 1993-95	11-27-94	4.81	974	2- 3-90	6.43	1,610
Lytle Creek at Sanbyrne Drive at Murfreesboro, TN (03428043)	Lat 35°49'38", long 86°23'28", Rutherford County, Hydrologic Unit 05130203, at bridge on Sanbyrne Drive, 1 mi south of intersection of Highways 41 and 231 in Murfreesboro. Datum of gage is 591.91 ft above sea level.	1978-90, 1991-92†, 1993-95	11-27-94	0.18	-	9- 4-86	2.55	-
Unnamed Sink near Almaville, TN (03428270)	Lat 35°51'21", Long 86°32'21" Rutherford Count, Hydrologic Unit 05130203, on left downstream wingwall of culvert on Shored Road, 2.4 miles southeast of Almaville.	1994-95	3-27-94 3- 8-95	607.36 602.51	-	3-27-94	607.36	-

See footnotes at the end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
		CUMBERLAND RIVER BASIN--Continued						
West Fork Stones River near Smyrna, TN (03428500)	Lat 35°56'25", long 86°27'54", Rutherford County, Hydrologic Unit 05130203, near left bank at county bridge on Sulphur Springs Road, 400 ft upstream from Nice's Mill dam, 1.6 mi downstream from Overall Creek, 4.2 mi southeast of Smyrna, and at mi 6.4. Datum of gage is 500 ft, above sea level. Drainage area is 237 mi^2, includes 43 mi^2 without surface drainage.	1965-91†, 1992-95	3- 8-95	11.45	11,200	3-13-75	19.18	63,800
Unnamed Sink on I-840 at Leanna, TN (03428513)	Lat 35°56'13", long 86°26'14", Rutherford County, Hydrologic Unit 05130203, 100 ft above culvert on I-840, 0.4 mile southwest of Leanna.	1994-95	6-26-94	532.37 <531.82	-	6-26-94	523.37	-
Unnamed Sink at Leanna, TN (03428515)	Lat 35°56'19", long 86°26'49", Rutherford County, Hydrologic Unit 05130203, 100 ft south of intersection of E. Buckeye Bottom Road and Sulphur Springs Road 0.9 mi west of Leanna. Datum of gage is sea level.	1994-95	6-26-94 3- 8-95	512.66 512.78	-	3- 8-95	512.78	-
McCrory Creek at Ironwood Drive at Donelson, TN (03430118)	Lat 36°09'07", long 86°39'02", Davidson County, Hydrologic Unit 05130203, at bridge under Ironwood Drive, 1.3 mi southeast of intersection of U.S. Highway 70 (Lebanon Road) and Donelson Pike in Donelson. Datum of gage is 430.63 ft above sea level. Drainage area is 7.31 mi^2.	1977-95b	11-27-94	7.06	1,380	5- 6-84	9.87	2,850
Mill Creek at Nolensville, TN (03430400)	Lat 35°57'32", long 86°40'31", Williamson County, Hydrologic Unit 05130202, at bridge on Sunset Road, 0.6 mi northwest of Nolensville. Datum of gage is 586.18 ft above sea level. Drainage area is 12.0 mi^2.	1965-95	5-14-95	8.61	7,620	5- 7-84	9.82	11,400
Sevenmile Creek at Blackman Road, near Nashville, TN (03431040)	Lat 36°04'21", long 86°44'00", Davidson County, Hydrologic Unit 05130202, at bridge on Blackman Road, 7.0 mi southeast of State capitol in Nashville. Datum of gage is 499.08 ft above sea level. Drainage area is 12.2 mi^2.	1965-95	11-27-94	6.17	-	9-13-79	9.58	-

See footnotes at the end of the table

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
		CUMBERLAND RIVER BASIN--Continued						
Mill Creek at Thompson Lane, near Woodbine, TN (03431060)	Lat 36°07'04", long 86°43'08", Davidson County, Hydrologic Unit 05130202, at bridge on Thompson Lane, 1.5 mi northeast of intersection of Thompson Lane and Nolensville Road (U.S. Highway 31-A, 41-A) in Woodbine. Datum of gage is 432.55 ft above sea level. Drainage area is 93.4 mi^2.	1965-95	3- 8-95	12.75	8,250	5- 4-79	20.63	26,200
Mill Creek tributary at Glenrose Avenue, at Woodbine, TN (03431062)	Lat 36°07'02", long 86°43'37", Davidson County, Hydrologic Unit 05130202, at culvert under Glenrose Avenue, 1.1 mi northeast of intersection of Nolensville Road and Thompson Lane in Woodbine, and 750 ft upstream from mouth. Datum of gage is 443.52 ft above sea level. Drainage area is 1.17 mi^2.	1977-95b	11-27-94	6.59	501	5- 6-84	9.12	833
West Fork Browns Creek at General Bates Drive, at Nashville, TN (03431120)	Lat 36°06'29", long 86°47'07", Davidson County, Hydrologic Unit 05130202, at bridge on General Bates Drive, 4.0 mi south of State capitol in Nashville. Datum of gage is 499.94 ft above sea level. Drainage area is 3.30 mi^2.	1965-95	11-27-94	6.67	1,840	3-29-75	7.00	2,110
East Fork Browns Creek at Baird-Ward Printing Company, at Nashville, TN (03431240)	Lat 36°06'33", long 86°46'00", Davidson County, Hydrologic Unit 05130202, at bridge on access road to Baird-Ward Printing Co., Plant No. 1, 500 ft west of 100-Oaks Shopping Center, and 4.0 mi southeast of State capitol in Nashville. Datum of gage is 497.91 ft above sea level. Drainage area is 1.58 mi^2.	1965-95	11-27-94	4.68	501	5- 3-93	5.37	690
Browns Creek at Factory Street, at Nashville, TN (03431340)	Lat 36°08'26", long 86°45'31", Davidson County, Hydrologic Unit 05130202, at bridge on Factory Street, 800 ft downstream from Louisville and Nashville Railroad bridge, and 2.3 mi southeast of State capitol in Nashville. Datum of gage is 420.66 ft above sea level. Drainage area is 13.2 mi^2.	1965-95	11-27-94	7.97	-	9-13-79	10.89	7,800

See footnotes at the end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
		CUMBERLAND RIVER BASIN--Continued						
Pages Branch at Avondale, TN (03431490)	Lat 36°12'22", long 86°46'24", Davidson County, Hydrologic Unit 05130202, at culvert under Trinity Lane, 900 ft east of intersection of Interstate 65 and Trinity Lane at Avondale, 0.9 mi upstream from mouth. Drainage area is 2.01 mi^2.	1977-95b	11-27-94	6.03	-	12- 3-78	6.20	-
Earthman Fork at Whites Creek, TN (03431550)	Lat 36°15'55", long 86°49'51", Davidson County, Hydrologic Unit 05130202, at bridge on Whites Creek Pike in town of Whites Creek, 1,800 ft upstream from mouth. Drainage area is 6.29 mi^2.	1965-95	11-27-94	6.55	1,110	5- 3-93	9.43	2,510
Ewing Creek at Richmond Hill Drive at Parkwood, TN (03431573)	Lat 36°13'50", long 86°46'28", Davidson County, Hydrologic Unit 05130202, at bridge on Richmond Hill Drive, 1.0 mi southeast of Parkwood. Datum of gage is sea level. Drainage area is 2.17 mi^2.	1976-95	11-27-94	496.99	-	6- 9-86	497.32	-
Ewing Creek at Brick Church Pike at Parkwood, TN (03431575)	Lat 36°13'58", long 86°46'54", Davidson County, Hydrologic Unit 05130202, at bridge on Brick Church Pike, 0.4 mi upstream from North Fork, 0.8 mi south of Parkwood. Datum of gage is sea level. Drainage area is 3.02 mi^2.	1976-95	11-27-94	478.28	-	6- 9-86	478.15	-
Ewing Creek at Gwynwood Drive near Jordonia, TN (03431578)	Lat 36°13'58", long 86°47'32" Davidson County, Hydrologic Unit 05130202, at bridge on county road, 0.3 mi downstream from North Fork, 3.4 mi northeast of Bordeaux, 4.5 mi northeast of Jordonia, and at mi 2.1. Datum of gage is sea level. Drainage area is 9.98 mi^2.	1976-95	11-27-94	463.07	-	6- 9-86	463.10	-
Ewing Creek below Knight Road, near Bordeaux, TN (03431581)	Lat 36°13'55", long 86°48'14", Davidson County, Hydrologic Unit 05130202, at downstream side of bridge on Knight Road, 3.0 mi northeast of Bordeaux. Datum of gage is sea level. Drainage area is 13.3 mi^2.	1976-95	11-27-94	448.80	-	6- 9-86	449.80	-
Sugartree Creek at YMCA Access Road, at Green Hills, TN (03431677)	Lat 36°06'13", long 86°49'12", Davidson County, Hydrologic Unit 05130202, at bridge on YMCA Access Road, 0.5 mi southwest of Hillsboro High School, at Green Hills. Datum of gage is sea level. Drainage area is 1.51 mi^2.	1976-95	11-27-94	544.29	-	9-13-79	545.23	-

See footnotes at the end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
		CUMBERLAND RIVER BASIN--Continued						
Sugartree Creek at Abbott Martin Road, at Green Hills, TN (03431679)	Lat 36°06'23", long 86°49'17", Davidson County, Hydrologic Unit 05130202, at bridge on Abbott Martin Road, at intersection of Bedford Avenue and Abbott Martin Road, at Green Hills. Datum of gage is sea level. Drainage area is 2.19 mi^2.	1976-95	11-27-94	531.54	-	11-27-94	531.54	-
Sycamore Creek near Ashland City, TN (03431800)	Lat 36°19'12", long 87°03'04", Cheatham County, Hydrologic Unit 05130202, near right bank on downstream end of pier of bridge on State Highway 49, at Sycamore, 3.2 mi north of Ashland City, 4.4 mi upstream from Spring Creek, and at mi 8.6. Elevation of gage is 400 ft above sea level, from topograhic map. Drainage area is 97.2 mi^2.	1961-87†, 1988-91†, 1992-95	3- 8-95	9.88	5,230	2-21-89	13.50	18,500
Murfrees Fork above Burwood, TN (03432470)	Lat 35°48'58", long 86°57'20", Williamson County, Hydrologic Unit 05130204, at county road bridge, just downstream from Cayce Branch, 1.6 mi east of Burwood. Drainage area is 7.43 mi^2.	1986-95	11-27-94	19.37	-	9- 4-86	26.85	-
Little Harpeth River at Granny White Pike, at Brentwood, TN (03432925)	Lat 36°01'30", long 86°49'09", Williamson County, Hydrologic Unit 05130204, at bridge on Granny White Pike, 2.0 mi southwest of Brentwood. Datum of gage is 618.29 ft above sea level. Drainage area is 22.0 mi^2.	1978-95	11-27-94	10.62	2,040	5- 4-79	17.55	9,260
Jones Creek near Burns, TN (03434590)	Lat 36°06'15", long 87°19'05", Dickson County, Hydrologic Unit 05130204, at bridge on Rock Church Road, 3.5 mi north of Burns and at mi 21.9. Drainage area is 13.3 mi^2.	1984-95	5- 9-95	7.41	1,850	5- 6-84	9.87	3,750
Bartons Creek near Cumberland Furnace, TN (034350021)	Lat 36°15'02". long 87°20'00" Dickson County, Hydrologic Unit 05130205, at bridge on Stayton road, 1.9 mi southeast of Cumberland Furnace. Drainage area is 22.3 mi^2.	1984-95	5- 9-95	11.81	-	5-27-91	14.93	-
Louise Creek near Grays Chapel, TN (034350035)	Lat 36°21'52", long 87°20'30", Montgomery County, Hydrologic Unit 05130206, at bridge on old State Highway 48, 2.8 mi south of Liverworth.	1995	5- 9-95	8.50	-			

See footnotes at the end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
		CUMBERLAND RIVER BASIN--Continued						
Honey Run Creek near Cross Plains, TN (034351105)	Lat 36°31'52", long 87°40'10" Robertson County, Hydrologic Unit 05130206, at county road bridge, 1.2 mi north-northwest of Calistia.	1995	11-27-94	13.55	-			
Honey Run Creek below Cross Plains, TN (034351113)	Lat 36°32'31", long 86°42'14", Robertson County, Hydrologic Unit 05130206, at Empson Bridge on county road, 0.4 mi above mouth of Empson branch, 0.6 mi southwest of Cross Plains. Drainage area is 25.8 mi^2.	1986-95	11-27-94	21.76	-	2- 3-90	23.11	-
Beaver Dam Creek above Springfield (03435739)	Lat 36°31'40", long 86°49'29" Robertson County, Hydrologic Unit 05130206, at county road bridge 3.6 miles northeast of Springfield, and at mile 1.6.	1995	5- 9-95	12.03	-			
Sulphur Fork Red River above Springfield, TN (03435770)	Lat 36°30'47", long 86°51'44", Robertson County, Hydrologic Unit 05130206, on left bank 150 ft downstream from new bridge on State Highway 49, 1.2 mi downstream from Beaver Dam Creek, 1.3 mi northeast of Springfield. Datum of gage is 538.17 ft above sea level. Drainage area is 65.6 mi^2.	1975-88†, 1988-95	5-18-95	11.31	4,080	2-21-89	14.29	11,200
Spring Creek tributary near Cedar Hill, TN (03435930)	Lat 36°32'08", long 86°59'26", Robertson County, Hydrologic Unit 05130206, at culvert on Kinney Road, 1.2 mi southeast of Cedar Hill. Drainage area is 1.40 mi^2.	1986-95	5-18-95	20.93	-	5-17-90	22.23	-
Sulphur Fork Red River above Port Royal, TN (03436082)	Lat 36°32'23", long 87°06'51", Robertson County, Hydrologic Unit 05130206, 1.7 miles southeast of Port Royal. Drainage area is 214 mi^2.	1995	5-19-95	35.67	-			
Red River at Port Royal, TN (03436100)	Lat 36°33'17", long 87°08'31", Montgomery County, Hydrologic Unit 05130206, on left bank at county road bridge at Port Royal, 250 ft downstream from Sulphur Fork, and at mi 25.5. Datum of gage is 376.25 ft above sea level. Drainage area is 935 mi^2, includes 437 mi^2 without surface drainage.	1961-91†, 1992-95	5-19-95	32.62	21,500	3-13-75	48.26	60,300

See footnotes at the end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
CUMBERLAND RIVER BASIN--Continued								
Passenger Creek near Sango, TN (03436130)	Lat 36°32'07", long 87°11'50" Montgomery County, Hydrologic Unit 05130206 at county road bridge 2.0 mi northeast of Sango. Datum of gage is sea level. Drainage area is 20.5 mi^2.	1995	5- 9-95	396.37				
Cummings Creek near Dotsonville, TN (03436505)	Lat 36°29'18", long 87°28'06", Montgomery County, Hydrologic Unit 05130205, at bridge on Dotsonville Road, 1.1 mi northeast of Dotsonville. Drainage area is 2.65 mi^2.	1984-95	5-18-95	6.77	-	12-25-87	9.45	-
Yellow Creek at Ellis Mills, TN (03436690)	Lat 36°18'39", long 87°33'15", Houston County, Hydrologic Unit 05130205, on right bank at downstream end of bridge on county road, 0.3 mi northeast of Ellis Mills, 1.0 mi upstream from Leatherwood Creek, 1.0 mi downstream from Williamson Branch. Elevation of gage is 417 ft above sea level, from topographic map. Drainage area is 103 mi^2.	1980-91†, 1992-95	5-14-95	13.16	5,870	5- 6-84	18.47	14,400
Yellow Creek near Shiloh, TN (03436700)	Lat 36°20'55", long 87°32'20", Montgomery County, Hydrologic Unit 05130205, at bridge on State Highway 13, 2.6 mi west of Shiloh, 3.0 mi downstream from Leatherwood Creek, 9.0 mi east of Erin. Datum of gage is 390.13 ft above sea level. Drainage area is 124 mi^2.	1957-80†, 1982-95	5-15-95	12.97	6,410	5- 6-84	17.75	16,200
TENNESSEE RIVER BASIN								
Caney Creek near Cosby, TN (03461230)	Lat 35°47'03", long 83°12'11", Cocke County, Hydrologic Unit 06010106, at culvert under State Highway 32, 3.3 mi southeast of Cosby. Drainage area is 1.62 mi^2.	1967-95	2-16-95	3.67	50	3-16-73	6.05	240
Cherokee Creek near Embreeville, TN (03465607)	Lat 36°12'24", long 82°29'23", Washington County, Hydrologic Unit 06010108, at culvert on county road, 0.5 mi southeast of Mayday, 1.4 mi northwest of Kansas City, and at mi 1.3. Drainage area is 22.9 mi^2.	1984-95	1-14-95	15.40	-	5- 7-84	18.37	-
Clear Fork near Fairview, TN (03465780)	Lat 36°19'33", long 82°33'47", Washington County, Hydrologic Unit 06010108, at culvert on State Highway 81, 2.0 mi southwest of Sulfur Springs, and at mi 3.8. Drainage area is 10.5 mi^2.	1983-95	3- 8-95	5.33	-	5- 7-84	7.26	-

See footnotes at the end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
		TENNESSEE RIVER BASIN--Continued						
Lick Creek near Albany, TN (03466890)	Lat 36°14'54", long 82°55'34", Greene County, Hydrologic Unit 06010108, at State Highway 70 bridge, 0.3 mi downstream from Puncheon Camp Creek, 1.0 mi northwest of Albany, and at mi 33.7. Drainage area is 172 mi^2.	1984-95	1-15-95	13.82	3,930	3-27-94	17.41	10,800
Bent Creek at Taylor Gap, TN (03467480)	Lat 36°14'08", long 83°06'41", Hamblen County, Hydrologic Unit 06010108, at bridge on county road (Mountain Valley Road), 2.1 mi southwest of Bulls Gap, 5.0 mi southeast of Russellville. Drainage area is 2.18 mi^2.	1986-95	3- 8-95	15.55	2,540	3-27-94	15.56	2,550
Carter Branch near White Pine, TN (03467992)	Lat 36°07'05", long 83°18'55", Jefferson County, Hydrologic Unit 06010108, at bridge on county road, 1.6 mi northeast of Kimbrough Crossroad, 1.8 mi northwest of White Pine. Drainage area is 4.25 mi^2.	1986-95	3- 8-95	5.80	-	8- 9-91	9.09	-
Cedar Creek near Valley Home, TN (03467993)	Lat 36°08'03", long 83°18'47", Jefferson County, Hydrologic Unit 06010108, at culvert on county road, 1.7 mi southeast of Valley Home, 1.9 mi southeast of Witt, 2.2 mi northwest of White Pine. Drainage area is 2.01 mi^2.	1986-95	3- 8-95	11.89	98	8- 9-91	13.19	193
Sinking Fork at White Pine, TN (03467998)	Lat 36°07'21", long 83°17'44", Jefferson County, Hydrologic Unit 06010108, at culvert on county road, 0.9 mi northwest of White Pine, 2.7 mi northeast of Kimbrough Crossroad. Drainage area is 6.38 mi^2.	1986-95	3- 8-95	5.79	664	5-28-90	6.68	1,180
Dumplin Creek at Mt. Hareb, TN (03470215)	Lat 36°04'59", long 83°25'51", Jefferson County, Hydrologic Unit 06010107, at culvert on county road, 0.8 mi southeast of Mt. Hareb, 4.3 mi southeast of Jefferson City, 4.6 mi north of Dandridge. Drainage area is 3.65 mi^2.	1986-95	3- 8-95	10.08	88	5-28-90	10.92	211
Indian Creek at Childress, TN (03476960)	Lat 36°25'38", long 82°15'54", Sullivan County, Hydrologic Unit 06010102, at bridge on U.S. Highway 19, 3.3 mi south of Bluff City, and at mi 4.6. Drainage area is 6.79 mi^2.	1983-95	5-13-95	8.52	-	5- 7-84	10.73	-

See footnotes at the end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
TENNESSEE RIVER BASIN--Continued								
Evans Creek near Blountville, TN (03478615)	Lat 36°31'19", long 82°18'12", Sullivan County, Hydrologic Unit 06010102, at State Highway 37 bridge, 1.5 mi southeast of Blountville. Datum of gage is 1500.00 ft above sea level. Drainage area is 2.50 mi^2.	1983-95	5-13-95	9.59	33	7-21-84	12.38	92
Reedy Creek at Orebank, TN (03487550)	Lat 36°33'42", long 82°27'36", Sullivan County, Hydrologic Unit 06010102, 80 ft upstream from culvert, 0.3 mi north of Orebank, 1.0 mi upstream from Gaines Branch, and at mi 9.8. Drainage area is 36.3 mi^2.	1963-89†, 1990-95	3- 8-95	5.98	680	10- 2-77	11.61	4,940c
Forgey Creek at Zion Hill, TN (03490522)	Lat 36°29'12", long 82°53'08", Hawkins County, Hydrologic Unit 06010104, at culvert on county road (Carter Valley Road), 0.9 mi north of Zion Hill, 7.8 mi northeast of Rogersville. Drainage area is 0.86 mi^2.	1986-95	3- 8-95	16.57	-	7- 7-89	21.03	-
Robertson Creek near Persia, TN (03491540)	Lat 36°20'24", long 83°02'27", Hawkins County, Hydrologic Unit 06010104, at bridge on State Highway 113, 0.25 mi below Mooney Branch, and at mi 3.0. Drainage area is 14.6 mi^2.	1986-95	3- 8-95	11.96	634	8-13-93	12.50	714
Dry Land Creek tributary near New Market, TN (03494714)	Lat 36°03'33", long 83°34'13", Jefferson County, Hydrologic Unit 06010104, at culvert on county road (Rocky Valley Road), 3.0 mi south of New Market, 3.3 mi northwest of Piedmont. Drainage area is 0.20 mi^2.	1986-95	2-16-95	10.86	-	6-27-94	12.86	-
Flat Creek at Luttrell, TN (03494990)	Lat 36°11'45", long 83°44'44", Union County, Hydrologic Unit 06010104, at bridge on State Highway 61, 0.3 mi southwest of Luttrell, 3.5 mi northwest of Blaine. Drainage area is 22.4 mi^2.	1986-95	3- 8-95	10.09	-	12-23-90	12.37	-
Baker Creek tributary near Binfield, TN (03519610)	Lat 35°41'56", long 84°02'46", Blount County, Hydrologic Unit 06010204, at culvert under county road, 1.5 mi east of Binfield. Drainage area is 2.10 mi^2.	1966-77, 1979-95	5-19-95	4.03	123	6-23-81	8.29	-

See footnotes at the end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
		TENNESSEE RIVER BASIN--Continued						
Baker Creek near Greenback, TN (03519640)	Lat 35°40'21", long 84°06'28", Blount County, Hydrologic Unit 06010204, at county road bridge, 1.0 mi upstream from Little Baker Creek, 3.4 mi east of Greenback, and at mi 15.0. Datum of gage is 845.01 ft above sea level. Drainage area is 16.0 mi^2.	1965-75†, 1976-95	3- 8-95	6.70	475	5-30-74	9.70	2,900
Big War Creek at Luther, TN (03527800)	Lat 36°27'18", long 83°14'29", Hancock County, Hydrologic Unit 06010205, at bridge on county road, 0.4 mi south of Luther 0.8 mi northwest of Yount Town, 6.0 mi southwest of Sneedville. Drainage area is 22.3 mi^2.	1986-95	5-14-95	8.60	2,140	6- 4-91	8.95	2,450
Crooked Creek near Maynardville, TN (03528390)	Lat 36°15'56", long 83°50'25", Union County, Hydrologic Unit 06010205, at culvert on State Highway 170, 2.5 mi northwest of Maynardville, 5.5 mi northeast of Paulette. Drainage area is 2.23 mi^2.	1986-95	5-14-95	4.66	-	12-23-90	5.57	-
Coal Creek at Lake City, TN (03534000)	Lat 36°13'14", long 84°09'27" Anderson County, Hydrologic Unit 06010207, at bridge on U.S. Highway 25-W, at Lake City. Datum of Gage is 842.76 ft above sea level. Drainage area is 24.5 mi^2.	1932-34†, 1955-95	5- 9-95	5.61	2,420	4- 5-77	10.57	7,950d
Willow Fork near Halls Crossroads, TN (03535180)	Lat 36°05'59", long 83°54'27", Knox County, Hydrologic Unit 06010207, at culvert under Quarry Road, 1.7 mi northeast of Halls Crossroads. Datum of gage is 1,027.82 ft above sea level. Drainage area is 3.23 mi^2.	1967-95	3- 8-95	5.36	62	3-16-73	8.08	878
Coker Creek near Ironsburg, TN (03555900)	Lat 35°13'05", long 84°20'28", Monroe County, Hydrologic Unit 06020002, at bridge on State Highway 68, 4.2 mi southwest of Coker Creek. Drainage area is 22.4 mi^2.	1983-93e 1995	3- 8-95	11.93	-	3- 8-95	11.93	-
Wolftever Creek near Ooltewah, TN (03566420)	Lat 35°03'43", long 85°03'59", Hamilton County, Hydrologic Unit 06020001, on right downstream wingwall of county road bridge, 0.6 mi downstream from Southern Railway bridge, 0.9 mi south of Ooltewah, 1.6 mi upstream from Little Wolftever Creek, and at mi 16.1. Drainage area is 18.8 mi^2.	1964-89†, 1992-95	2-16-95	8.05	2,790	3-16-73	9.75	7,300

See footnotes at the end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
TENNESSEE RIVER BASIN--Continued								
North Chickamauga Creek at Greens Mill, near Hixson, TN (03566599)	Lat 35°10'30", long 85°13'40", Hamilton County, Hydrologic Unit 06020001, at bridge on Boy Scout Road, 2.3 mi north of Hixson. Drainage area is 99.5 mi^2.	1925,1944, 1953-56, 1980-95	11-28-94	29.21	-	12-22-90	36.19	-
Stringers Branch at Leawood Drive, at Red Bank, TN (03569168)	Lat 35°07'00", long 85°17'28", Hamilton County, Hydrologic Unit 06020001, at bridge on Leawood Drive at Red Bank. Drainage area is 1.54 mi^2.	1980-95	5-19-95	22.80	-	4-15-87	25.70	-
Little Sequatchie River at Sequatchie, TN (03571500)	Lat 35°07'47", long 85°35'10", Marion County, Hydrologic Unit 06020004, at Highway 27 bridge, 1.0 mi northeast of Sequatchie. Drainage area is 116 mi^2.	1925,1929, 1930, 1932-34†, 1944, 1951-54, 1965,1979-95		<7.18	<4,620	12-22-90	11.78	-
Standifer Branch at Jasper, TN (03571730)	Lat 35°04'22", long 85°36'56", Marion County, Hydrologic Unit 06020004, at bridge on U.S. Highways 41, 64, and 72, 0.6 mi east of courthouse, 0.8 mi above Town Creek, at Jasper. Drainage area is 15.3 mi^2.	1982-95	3- 7-95	14.68	-	12-22-90	19.59	-
Battle Creek near Monteagle, TN (03571800)	Lat 35°08'03", long 85°46'15", Marion County, Hydrologic Unit 06030001, at bridge on former U.S. Highways 41 and 64, 9.2 mi southeast of Monteagle. Datum of gage is 621.51 ft above sea level. Drainage area is 50.4 mi^2.	1955-95		<7.00	<2,660	3-12-63	12.20	10,200
Richland Creek near Cornersville, TN (03583300)	Lat 35°19'10", long 86°52'20", Marshall County, Hydrologic Unit 06030004, at bridge on U.S. Highway 31-A, 3.4 mi southwest of Cornersville. Datum of gage is 754.28 ft above sea level. Drainage area is 47.5 mi^2.	1962-68†, 1969-95	11-27-94	11.76	3,790	7-11-89	16.58	11,400
Owl Creek at Lexington, TN (035944242)	Lat 35°38'26", long 88°22'13", Henderson County, Hydrologic Unit 06040001, on State Highway 20, 1.37 mi east of Lexington, and at mi 1.3. Datum of gage is 400.00 ft above sea level, prior to March 15, 1990 unknown. Drainage area is 2.50 mi^2.	1984-95	12-11-94	25.59	-	12- 3-90	26.35	-

See footnotes at the end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
		TENNESSEE RIVER BASIN--Continued						
Wartrace Creek above Bell Buckle, TN (03597300)	Lat 35°37'45", long 86°21'22", Bedford County, Hydrologic Unit 06040002, at culvert under county road, 2.7 mi north of Bell Buckle. Drainage area is 4.99 mi^2.	1966-95	4-20-95	6.22	742	3-15-73	12.64	3,220
West Piney River at Hwy 70 near Dickson, TN (03602170)	Lat 36°05'21", long 87°28'12", Dickson County, Hydrologic Unit 06040003, at U.S. Highway 70 bridge, 4.0 mi west of Dickson. Drainage area is 2.16 mi^2.	1984-95	3- 7-95	23.07	229	5- 6-84	28.17	1,230
Piney River at Vernon, TN (03602500)	Lat 35°52'16", long 87°30'05", Hickman County, Hydrologic Unit 06040003, on right downstream side of bridge, 40 ft upstream from Pretty Creek, 0.2 mi northwest of Vernon, 2.3 mi downstream from Mill Creek, 6.5 mi north of Centerville, and at mile 8.3. Drainage ares is 193 mi^2.	1925-93†, 1995	3- 8-95	11.17	6,430	5-27-91	24.42	49,400
Coon Creek above Chop Hollow, near Hohenwald, TN (03604090)	Lat 35°35'19", long 87°41'09", Perry County, Hydrologic Unit 06040004, at bridge on State Highway 20, 9.0 mi northwest of Hohenwald. Drainage area is 6.02 mi^2.	1967-95	11-27-94	5.16	1,120	12- 9-72	6.80	3,150
Blue Creek near New Hope, TN (03604580)	Lat 36°03'52", long 87°38'58", Humphreys County, Hydrologic Unit 06040003, at county road bridge, 1.8 mi northwest of New Hope, 3.1 mi southeast of McEwen, and at mi 3.9. Drainage area is 13.2 mi^2.	1984-95	6-24-91 1992 4-24-93 1994 1995	18.76f <17.04f 17.45f <17.04f <17.04	-	6-13-89	18.82	-
Trace Creek above Denver, TN (03605555)	Lat 36°03'08", long 87°54'27", Humphreys County, Hydrologic Unit 06040005, on left bank at bridge on U.S. Highway 70, 1.0 mi northeast of New Johnsonville. Datum of gage is 377.05 ft above sea level. Drainage area is 31.9 mi^2.	1963-88†, 1989-94	1995	<6.90	<1,740	5- 6-84	13.61	11,700
Cane Creek at Stewart, TN (03605880)	Lat 36°19'09", long 87°50'21", Houston County, Hydrologic Unit 06040005, at bridge on county road, 200 ft north of intersection of county road and State Highway 147, and at mi 7.0. Drainage area is 4.12 mi^2.	1984-95	5-18-95	17.84	-	12-25-87	18.74	-

See footnotes at the end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
			OBION RIVER BASIN					
Neil Ditch near Henry, TN (07024225)	Lat 36°10'19", long 88°23'33", Henry County, Hydrologic Unit 08010203, located on county road, 2.7 mi southeast of Henry, 1.6 mi north of Henry-Carroll county line. Drainage area is 4.07 mi^2.	1984-95	8- 7-95	10.32	-	12-21-90	14.48	-
Little Reedy Creek near Huntingdon, TN (07024370)	Lat 35°55'44", long 88°29'50", Carroll County, Hydrologic Unit 08010203, located on U.S. Highway 70, 0.6 mi southwest of Leach, 5.6 mi northeast of Cedar Grove. Drainage area is 0.91 mi^2.	1984-95	3-28-95	13.87	-	12-25-87	15.38	-
North Fork Obion River River near Union City, TN (07025500)	Lat 36°23'59", long 88°59'43", Obion County, Hydrologic Unit 08010202, at bridge on State Highway 22, 0.3 miles downstream from Harris Fork Creek, 0.8 miles southeast of Gibbs, 3.9 miles southeast of Union City, 4.5 miles upstream from Hoosier Creek, and 10 miles upstream from confluence South Fork. Datum of gage is 285.80 ft. above sea level. Drainage area is 480 mi^2.	1929-66†, 1967-71†, 1989-93†, 1994-95	11-30-94	16.69	8,320	1-22-37	23.08	49,200
North Fork Forked Deer River at U.S. Highway 45W Bypass at Trenton, TN (07028505)	Lat 35°58'58", long 88°55'49", Gibson County, Hydrologic Unit 08010204, at bridge on U.S. Highway 45W Bypass, 0.25 mi north of intersection of U.S. Highway 45W Bypass and State Highways 77 and 104 in Trenton. Datum of gage is 306.85 ft above sea level. Drainage area is 73.9 mi^2.	1987-95	8- 7-95	7.36	-	12-21-90	12.00	-
Lewis Creek near Dyersburg, TN (07029090)	Lat 36°03'14", long 89°21'42", Dyer County, Hydrologic Unit 08010204, at bridge on U.S. Highway 51 (Business Route), 2.1 mi northeast of square in Dyersburg. Datum of gage is 276.52 ft above sea level. Drainage area is 25.5 mi^2	1955-78, 1980-83, 1985-95	5- 2-95	12.51	510	3- 9-64	19.31	5,450

See footnotes at the end of the table.

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
		OBION RIVER BASIN--Continued						
Cane Creek at Ripley, TN (07030100)	Lat 35°45'25", long 89°33'05", Lauderdale County, Hydrologic Unit 08010208, at bridge on State Highway 19, 1.3 mi upstream from Hyde Creek, 1.5 mi northwest of Ripley. Datum of gage is 295.93 ft above sea level. Drainage area is 33.9 mi^2.	1957-62†, 1963-70†, 1986-88†, 1989-95	1-20-95	16.23	2,396	7- 1-89	23.16	6,360

† Operated as a continuous-record gaging station.
a A gage height of 17.45 ft occurred on 3-23-29.
b Operated as a flood hydrograph station.
c A peak discharge of 11,000 ft^3/s occurred on 5-30-27, from reports of Tennessee Valley Authority.
d A peak discharge of 8,000 ft^3/s occurred on 3-23-29, from reports of Tennessee Valley Authority.
e Datum of gage prior to 1995 water year unknown due to bridge replacement.
f Revised.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Miscellaneous Sites

Measurements of streamflow at points other than gaging stations are given in the following table. Measurements of base flow are designated by an asterisk (*); measurements of peak flow by a dagger(†).

Discharge measurements made at miscellaneous sites during water year 1995

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		TENNESSEE RIVER BASIN				
03565428 Oostanaula Creek	Hiwassee River	Lat 35°30′14", long 84°29′47" McMinn County, Hydrologic Unit 06020002, on right bank 35 ft downstream of county bridge, 5.5 mi south of Sweetwater, TN.	4.41		2-18-94	12
					5-23-94	*4.9
					6- 6-94	7.3
					6-20-94	5.5
					7- 5-94	*4.2
					7-18-94	5.8
					8- 1-94	13
					8-15-94	5.2
					8-30-94	*3.3
					9-13-94	*2.8
					9-26-94	*2.2
					10-18-94	*2.1
					11- 8-94	*1.3
					12- 1-94	4.7
					12-19-94	4.5
					1-14-95	44
					1-14-95	36
					1-31-95	7.4
					2-27-95	14
03565430 Oostanaula Creek	Hiwassee River	Lat 35°28′14", long 84°33′12" McMinn County, Hydrologic Unit 0620002, on right bank 100 ft upstream of farm bridge, 3 mi northeast of Athens, TN.	16.8		5-23-94	*15
					6- 6-94	20
					6-20-94	16
					7- 5-94	*12
					7-18-95	20
					8- 1-94	51
					8-15-94	19
					8-30-94	*11.4
					9-13-94	*8.8
					9-26-94	*7.9
					10-20-94	*7.4
					11- 8-94	*5.9
					12- 1-94	15
					12-20-94	15
					1-14-95	115
					1-14-95	110
					2- 1-95	28
					2-27-95	28
03578000 Elk River	Elk River to Tennessee River	Lat 35°17′48", long 85°52′12", Grundy County, Hydrologic Unit 06030003, on right bank at downstream side of bridge on U.S. Highway 41, 1.1 mi southeast of Pelham, 1.8 mi upstream from Caldwell Creek, and at mile 194.2.	65.6	a1952-88	4-26-95	124
					6- 5-95	*8.8
					7-19-95	*6.9
					8-28-95	*10.9

a Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Miscellaneous Sites--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		TENNESSEE RIVER BASIN--Continued				
03600085 Carters Creek	Duck River to Tennessee River	Lat 35°43'39", long 86°59'19", Maury County, Hydrologic Unit 06040003, at bridge on Petty Lane, 0.8 mi north of Carters Creek, and at mi 4.7.	16.6	1986-94	11- 8-94	*7.2
					2-22-95	16.9
					5-24-95	15.7
					7-19-95	*1.1
03600086 Carters Creek Tributary	Carters Creek to Duck River to Tennessee River	Lat 35°43'34", long 86°59'19", Maury County, Hydrologic Unit 06040003, at culvert on Carters Creek Road, 0.7 mi north of Carters Creek.	2.94	1986-94	11- 8-94	*3.0
					2-22-95	*2.9
					5-24-95	*2.8
					7-19-95	*1.0

DISCHARGE AT PARTIAL RECORD STATIONS AND MISCELLANEOUS SITES

Springs

In 1931 a study of large springs in Tennessee was made and the results published in WSP 713. From 1950 to 1954 a more detailed study, including some of these springs, was made. Results of this study and all subsequent spring measurements were published annually in WSP's from 1950 to 1960. Since 1960 results of measurements have been published in annual State reports. Measurements made in the 1995 water year are given in the following table.

Discharge measurement of springs during water year 1995

Site number and name	Location	Tributary to	Date	Discharge (gpm)	Discharge (ft^3/sec)
		GRUNDY COUNTY			
03420187 Unnamed Spring	Lat 35°29'45", long 85°40'01", Hydrologic Unit 05130107, 0.7 mi west of Tarlton, 2.2 mi north of Beersheba Springs.	Collins River to Caney Fork to Cumberland River	10- 5-94	3,100	6.9
			11-15-94	20,800	46.4
			12-15-94	64,200	143
			1-23-95	69,100	154
			4-26-95	69,600	155
			6- 6-95	1,210	2.7
			7-19-95	449	1.0
			8-28-95	7,180	16
		MONTGOMERY COUNTY			
03436385 Noah Spring	Lat 36°38'20", long 87°33'08", Hydrologic Unit 05130206, 200 ft south of Tennessee Kentucky state line, 2.1 mi south of Garrettsburg, Kentucky.	Little West Fork to Red River to Cumberland River	10-18-94	18	.04
03436424 Unnamed Spring	Lat 36°36'33", long 87°29'49", Hydrologic Unit 05130206, on county road 0.9 mi southeast of pumping station.	Little West Fork to Red River to Cumberland River	10-18-94	431	.96
03436435 Unnamed Spring	Lat 36°32'44", long 87°30'42", Hydrologic Unit 05130206, on old Dover road, 0.1 mi northwest of Woodlawn.	Fletchers Fork to Little West Fork to Red River to Cumberland River	10-18-94	0	0
03436445 Britton Spring	Lat 36°35'35", long 87°25'56", Hydrologic Unit 05130206, 0.7 mi west of Ringgold.	Fletchers Fork to Little West Fork to Red River to Cumberland River	10-18-94	1,530	3.4

CUMBERLAND RIVER BASIN

Fort Campbell, TN-KY (Stewart, Montgomery, TN and Christian, KY counties), special study

A series of low-flow discharge measurements were made October 18, 19, 1994, in the vicinity of Fort Campbell, TN-KY (Stewart, Montgomery, Tennessee and Christian, Kentucky counties), to define areas of potential ground-water supplies, low-flow hydrology and quality of water at base flow conditions. The measurements were made during a period of constant base flow.

Stream	Tributary to	Location	Drainage area (mi^2)	Measurements discharge (ft^3/sec.)	Water temp. (C°)	Specific cond. (us/cm)
		CUMBERLAND RIVER BASIN				
03436360 Noah Spring Branch	Little West Fork to Red River to Cumberland River	Lat 36°38'24", long 87°39'15", Christian County, KY, Hydrologic Unit 05130206, 0.1 mile north of Kentucky-Tennessee state line, on Angel road, 1.3 mi south of LaFayette, KY.	14.8	0	---	---
03436361 Noah Spring Branch Tributary	Noah Spring Branch to Little West Fork to Red River to Cumberland River	Lat 36°38'21", long 87°39'01", Christian County, KY, Hydrologic Unit 05130206, 0.1 mile north of Kentucky-Tennessee state line, on Angel road, 1.5 mi southeast of LaFayette, KY.	1.44	0	---	---
03436362 Noah Spring Branch	Little West Fork to Red River to Cumberland River	Lat 36°38'50", long 87°38'00", Christian County, KY, Hydrologic Unit 05130206, 1.6 miles southeast of LaFayette, KY.	18.6	0	---	---
03436364 Noah Spring Branch Tributary	Noah Spring Branch to Little West Fork to Red River to Cumberland River	Lat 36°40'42", long 87°38'30", Christian County, KY, Hydrologic Unit 05130206, 1.5 miles northeast of LaFayette, KY.	1.92	0	---	---
03436365 Noah Spring Branch Tributary	Noah Spring Branch to Little West Fork to Red River to Cumberland River	Lat 36°39'02", long 87°38'00", Christian County, KY, Hydrologic Unit 05130206, 1.8 miles southeast of LaFayette, KY.	10.9	0	---	---
03436366 Noah Spring Branch Tributary	Noah Spring Branch to Little West Fork to Red River to Cumberland River	Lat 36°38'50", long 87°38'01", Christian County, KY, Hydrologic Unit 05130206, 1.6 miles southeast of LaFayette, KY.	11.0	0	---	---
03436368 Noah Spring Branch Tributary	Noah Spring Branch to Little West Fork to Red River to Cumberland River	Lat 36°38'19", long 87°37'18", Christian County, KY, Hydrologic Unit 05130206, 0.6 miles west of intersection of Angels Road and Mabry Road, 2.5 mi southeast of LaFayette, KY.	1.03	0	---	---
03436369 Noah Spring Branch	Little West Fork to Red River to Cumberland River	Lat 36°38'41", long 87°36'53", Christian County, KY, Hydrologic Unit 05130206, 0.41 mile northwest of intersection of Angels Road and Mabry Road, 2.7 mi east of LaFayette, KY.	31.7	0	---	---

Fort Campbell, TN-KY (Stewart, Montgomery, TN and Christian, KY counties), special study--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measurements discharge ($ft^3/sec.$)	Water temp. (C°)	Specific cond. (us/cm)
		CUMBERLAND RIVER BASIN--Continued				
03436370 Noah Spring Branch Tributary	Noah Spring Branch to Little West Fork to Red River to Cumberland River	Lat 36°38'39", long 87°36'51", Christian County, KY, Hydrologic Unit 05130206, 0.4 miles northwest of intersection Angels Road and Mabry Road 2.7 mi east of LaFayette, KY.	0.15	0	---	---
03436372 Noah Branch Tributary	Noah Spring Branch to Little West Fork to Red River to Cumberland River	Lat 36°38'37", long 87°35'24", Christian County, KY, Hydrologic Unit 05130206, 1.2 miles northeast of intersection of Mabry Road, on Angels Road, 3.1 mi southwest of Garrettsburg, KY.	0.46	0	---	---
03436373 Noah Spring Branch	Little West Fork to Red River to Cumberland River	Lat 36°38'42", long 87°35'07", Christian County, KY, Hydrologic Unit 05130206, 1.5 miles northeast of intersection of Mabry Road, on Angels road, 2.8 mi southwest of Garrettsburg, KY.	34.7	0	---	---
03436375 Noah Spring Branch	Little West Fork to Red River to Cumberland River	Lat 36°38'19", long 87°33'26", Montgomery County, Hydrologic Unit 05130206, intersection of Kentucky-Tennessee state line and Palmyra Road, 2.1 mi south of Garrettsburg, KY.	36.5	0	---	---
03436378 Unnamed Tributary to Noah Cave	Noah Cave	Lat 36°39'46", long 87°34'28", Christian County, KY, Hydrologic Unit 05130206, 1.6 miles north of Kentucky-Tennessee state line, at Loveland Road,1.8 mi west of Garrettsburg, KY.	4.77	0	---	---
03436379 Unnamed Tributary to Noah Cave	Noah Cave	Lat 36°40'03", long 87°34'04", Christian County, KY, Hydrologic Unit 05130206, on Brodie Road 1.4 miles southwest of Garrettsburg, KY.	1.99	0	---	---
03436382 Unnamed Tributary to Noah Cave	Noah Cave	Lat 36°39'47", long 87°32'43", Christian County, KY, Hydrologic Unit 05130206, on Route 345, 0.4 mile south of Garrettsburg, KY.	2.36	0	---	---
03436384 Noah Cave Sink		Lat 36°38'47", long 87°33'21", Christian County, KY, Hydrologic Unit 05130206, 0.3 mile southwest of intersection of Route 345 and Angels Road, 1.7 mi south of Garrettsburg, KY.	14.3	0	---	---
03436388 Noah Spring Branch	Little West Fork to Red River to Cumberland River	Lat 36°38'02", long 87°32'12", Montgomery County, Hydrologic Unit 05130206, at On the Line Road, 0.3 mile south of Kentucky-Tennessee state line, 2.3 mi south of Garrettsburg, KY.	52.4	2.1	13.9	415

CUMBERLAND RIVER BASIN

Fort Campbell, TN-KY (Stewart, Montgomery, TN and Christian, KY counties), special study--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measurements discharge (ft^3/sec.)	Water temp. (C°)	Specific cond. (us/cm)
		CUMBERLAND RIVER BASIN--Continued				
03436390 Dry Fork Creek Tributary	Dry Fork Creek to Noah Spring Branch to Little West Fork to Red River to Cumberland River	Lat 36°40'57", long 87°29'03", Christian County, KY, Hydrologic Unit 05130206, near Army Airfield, 1.9 miles southwest of intersection of Highway 117 and 41A, at Ft. Campbell TN-KY.	0.11	0	---	---
03436391 Dry Fork Creek Tributary	Dry Fork Creek to Noah Spring Branch to Little West Fork to Red River to Cumberland River	Lat 36°40'39", long 87°30'37", Christian County, KY, Hydrologic Unit 05130206, at Army Airfield tower, 1.9 miles northeast of Garrettsburg, KY.	3.99	0	---	---
03436394 Dry Fork Creek Tributary	Dry Fork Creek to Noah Spring Branch to Little West Fork to Red River to Cumberland River	Lat 36°40'07", long 87°30'50", Christian County, KY, Hydrologic Unit 05130206, at Army Airfield water tank, 1.6 miles east of Garrettsburg, KY.	0.23	0	---	---
03436396 Dry Fork Creek	Noah Spring Branch to Little West Fork to Red River to Cumberland River	Lat 36°39'13", long 87°31'02", Christian County, KY, Hydrologic Unit 05130206, at Angels Road, 1.0 mile north of Kentucky-Tennessee state line 1.8 mi southeast of Garrettsburg, KY.	9.67	3.9	14.4	380
03436397 Dry Fork Creek Tributary	Dry Fork Creek to Noah Spring Branch to Little West Fork to Red River to Cumberland River	Lat 36°39'19", long 87°30'22", Christian County, KY, Hydrologic Unit 05130206, at Angels Road, 1.0 mile north of Kentucky-Tennessee state line, 2.2 mi southeast of Garrettsburg, KY.	1.11	0	---	---
03436398 Dry Fork Creek	Noah Spring Branch to Little West Fork to Red River to Cumberland River	Lat 36°38'06", long 87°28'33", Montgomery County, Hydrologic Unit 05130206, 0.4 mile south of intersection of Range Corp BDY road and Kentucky-Tennessee state line, at Ft. Campbell TN-KY.	0.95	0	---	---
03436400 Noah Spring Branch	Little West Fork to Red River to Cumberland River	Lat 36°37'22", long 87°30'47", Montgomery County, Hydrologic Unit 05130206, 1.9 miles northeast of Ghost Corp Road and Jordan Spring Road intersection.	72.15	9.7	15.2	309
03436401 Piney Fork	Little West Fork to Red River to Cumberland River	Lat 36°34'51", long 87°42'24", Stewart County, Hydrologic Unit 05130206, at Destiny Trail, 1.9 miles northwest of Legate.	2.60	0	---	---
034364015 Piney Fork	Little West Fork to Red River to Cumberland River	Lat 36°35'17", long 87°41'48", Stewart County, Hydrologic Unit 05130206, 0.5 mile south of Jordan Spring Road and Normandy Loop intersection, 1.4 mi north of Legate.	5.48	0	---	---

CUMBERLAND RIVER BASIN

Fort Campbell, TN-KY (Stewart, Montgomery, TN and Christian, KY counties), special study--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measurements discharge (ft^3/sec.)	Water temp. (C°)	Specific cond. (us/cm)
		CUMBERLAND RIVER BASIN--Continued				
03436402 Piney Fork Tributary	Piney Fork to Little West Fork to Red River to Cumberland River	Lat 36°35'19", long 87°41'48", Stewart County, Hydrologic Unit 05130206, 0.5 mile south of Jordan Spring Road and Normandy Loop intersection, 1.4 mi north of Legate.	0.26	0	---	---
03436403 Piney Fork	Little West Fork to Red River to Cumberland River	Lat 36°35'16", long 87°40'37", Stewart County, Hydrologic Unit 05130206, 1.3 miles southeast of Jordan Spring Road and Normandy Loop intersection, 2.5 mi northeast of Legate.	11.6	0	---	---
03436404 Piney Fork	Little West Fork to Red River to Cumberland River	Lat 36°35'16", long 87°39'54", Stewart County, Hydrologic Unit 05130206, at Rendevous Road, 1.9 miles southeast of Legate.	12.5	0	---	---
03436405 Lake Kyle Outflow	Piney Fork to Little West Fork to Red River to Cumberland River	Lat 36°34'58", long 87°39'24", Stewart County, Hydrologic Unit 05130206, 0.4 mile west of intersection of Indian Mound Road and Destiny Trail Road, 3.0 mi northeast of Legate.	2.07	.03	17.1	176
03436406 Piney Fork	Little West Fork to Red River to Cumberland River	Lat 36°35'22", long 87°38'46", Stewart County, Hydrologic Unit 05130206, 0.6 mile south on Indian Mound Road from Jordan Spring Road intersection,3.8 mi northeast of Legate.	16.2	0	---	---
03436407 Piney Fork Tributary	Piney Fork Creek to Little West Fork to Red River to Cumberland River	Lat 36°35'24", long 87°38'44", Stewart County, Hydrologic Unit 05130206, 0.6 mile south on Indian Mound Road from Jordan Spring Road intersection, 3.8 mi northeast of Legate.	0.47	0	---	---
03436408 Piney Fork	Little West Fork to Red River to Cumberland River	Lat 36°35'38", long 87°37'49", Montgomery County, Hydrologic Unit 05130206, 1.0 mile southeast of Indian Mound Road and Jordan Road intersection, 4.8 mi south of LaFayette, KY.	18.9	0	---	---
03436409 Elk Fork Creek	Piney Fork to Little West Fork to Red River to Cumberland River	Lat 36°35'14", long 87°36'50", Montgomery County, Hydrologic Unit 05130206, 0.7 mile southeast of Ghost Corp Road and Jordan Spring Road intersection, 4.1 mi north of Oakwood.	7.01	0	---	---

CUMBERLAND RIVER BASIN

Fort Campbell, TN-KY (Stewart, Montgomery, TN and Christian, KY counties), special study--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measurements discharge (ft^3/sec.)	Water temp. (C°)	Specific cond. (us/cm)
		CUMBERLAND RIVER BASIN--Continued				
03436410 Elk Fork Creek	Piney Fork to Little West Fork to Red River to Cumberland River	Lat 36°35'38", long 87°37'47", Montgomery County, Hydrologic Unit 05130206, at mouth, 1.0 mile southeast of Indian Mound Road and Jordan Spring Road intersection, 4.8 mi south of LaFayette, KY.	7.98	0	---	---
034364104 Piney Fork	Little West Fork to Red River to Cumberland River	Lat 36°36'22", long 87°37'56", Montgomery County, Hydrologic Unit 05130206, 0.7 mile northeast of Grant Road and Jordan Spring Road intersection, near LaFayette, KY.	27.8	.03	16.8	276
034364105 Piney Fork Tributary	Piney Fork Creek to Little West Fork to Red River to Cumberland River	Lat 36°36'23", long 87°37'58", Montgomery County, Hydrologic Unit 05130206, 0.7 mile northeast of Grant Road and Jordan Spring Road intersection, near LaFayette, KY.	0.47	0	---	---
03436411 Piney Fork	Little West Fork to Red River to Cumberland River	Lat 36°37'06", long 87°36'38", Montgomery County, Hydrologic Unit 05130206, 1.8 miles northeast of Ghost Corp Road and Jordan Spring Road, near LaFayette, KY.	30.2	0	---	---
03436412 Piney Fork	Little West Fork to Red River to Cumberland River	Lat 36°37'37", long 87°35'54", Montgomery County, Hydrologic Unit 05130206, at Engineers Road, near Garrettsburg, KY.	31.1	.21	15.0	261
03436413 Piney Fork	Little West Fork to Red River to Cumberland River	Lat 36°37'03", long 87°34'53", Montgomery County, Hydrologic Unit 05130206, 1.9 miles northwest of Jordan Spring Road and Palmyra Road, near Oakwood.	32.0	.20	16.8	299
03436414 Piney Fork	Little West Fork to Red River to Cumberland River	Lat 36°36'59", long 87°33'17", Montgomery County, Hydrologic Unit 05130206, 2.0 miles northeast of intersection of Jordan Springs Road and Ghost Corps Road, near Oakwood.	36.5	.16	15.9	333
03436415 Piney Fork	Little West Fork to Red River to Cumberland River	Lat 36°36'59", long 87°32'21", Montgomery County, Hydrologic Unit 05130206, at mouth, 1.4 miles northwest of intersection of Ghost Corps Road and Jordan Spring Road, near Oakwood.	37.3	0	---	---
03436416 Jordan Creek	Piney Fork to Little West Fork to Red River to Cumberland River	Lat 36°35'40", long 87°33'16", Montgomery County, Hydrologic Unit 05130206, 1.1 miles east of Jordan Spring Road and Palmyra Road, near Oakwood.	4.50	.45	18.2	384

Fort Campbell, TN-KY (Stewart, Montgomery, TN and Christian, KY counties), special study--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measurements discharge (ft^3/sec.)	Water temp. (C°)	Specific cond. (us/cm)
		CUMBERLAND RIVER BASIN--Continued				
03436417 Moss Creek	Jordan Creek to Piney Fork to Little West Fork to Red River to Cumberland River	Lat 36°35'53", long 87°34'37", Montgomery County, Hydrologic Unit 05130206, at Palmyra Road, 0.4 mile north of Jordan Spring and Palmyra Road intersection, near Oakwood.	3.12	0	---	---
03436418 Jordan Creek	Piney Fork to Little West Fork to Red River to Cumberland River	Lat 36°36'29", long 87°32'42", Montgomery County, Hydrologic Unit 05130206, 1.2 miles northwest of Jordan Spring Road and Ghost Corps Road, near Oakwood.	9.95	.31	15.0	357
03436419 Jordan Creek	Piney Fork to Little West Fork to Red River to Cumberland River	Lat 36°36'56", long 87°32'21", Montgomery County, Hydrologic Unit 05130206, at mouth, 1.4 miles northwest of intersection of Ghost Corp Road and Jordan Spring Road, near Oakwood.	11.2	0	---	---
03436420 Piney Fork	Little West Fork to Red River to Cumberland River	Lat 36°36'59", long 87°30'51", Montgomery County, Hydrologic Unit 05130206, 1.4 miles northeast of Ghost Corps Road and Jordan Spring Road intersection, near Oakwood.	50.18	0	---	---
03436426 Little West Fork	Red River to Cumberland River	Lat 36°36'38", long 87°28'11", Montgomery County, Hydrologic Unit 05130206, 3 miles northwest of Ringgold.	128	10.5	15.9	376
03436430 Little West Fork	Red River to Cumberland River	Lat 36°36'28", long 87°26'57", Montgomery County, Hydrologic Unit 05130206, 1.2 miles southwest of GATE #1 at Ft. Campbell TN-KY.	131	17.2	16.8	440
03436433 Fletchers Fork	Little West Fork to Red River to Cumberland River	Lat 36°33'26", long 87°31'25", Montgomery County, Hydrologic Unit 05130206, 1.1 miles northwest of Woodlawn.	9.73	0	---	---
03436437 Fletchers Fork Tributary	Fletchers Fork to Little West Fork to Red River to Cumberland River	Lat 36°33'24", long 87°31'22", Montgomery County, Hydrologic Unit 05130206, 1.1 miles northwest of Woodlawn.	0.42	0	---	---
03436440 Fletchers Fork	Little West Fork to Red River to Cumberland River	Lat 36°34'27", long 87°30'42", Montgomery County, Hydrologic Unit 05130206, 1.2 miles south of Ghost Corp Road and Jordan Spring Road intersection, near Woodlawn.	13.0	.80	15.2	337
03436441 Fletchers Fork	Little West Fork to Red River to Cumberland River	Lat 36°35'19", long 87°27'57", Montgomery County, Hydrologic Unit 05130206, 2.6 miles west of Ringgold.	17.6	0	---	---

CUMBERLAND RIVER BASIN

Fort Campbell, TN-KY (Stewart, Montgomery, TN and Christian, KY counties), special study--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measurements discharge (ft^3/sec.)	Water temp. (C°)	Specific cond. (us/cm)
		CUMBERLAND RIVER BASIN--Continued				
03436442 Raccoon Branch	Fletchers Fork to Little West Fork to Red River to Cumberland River	Lat 36°34'31", long 87°27'57", Montgomery County, Hydrologic Unit 05130206, 0.3 mile southwest of Walnut Grove Church, near LaFayette, KY.	3.94	.40	15.4	389
03436443 Raccoon Branch	Fletchers Fork to Little West Fork to Red River to Cumberland River	Lat 36°35'17", long 87°27'56", Montgomery County, Hydrologic Unit 05130206, at mouth, 2.7 miles west of Ringgold.	5.21	0	---	---
03436444 Fletchers Fork	Little West Fork to Red River to Cumberland River	Lat 36°35'34", long 87°26'58", Montgomery County, Hydrologic Unit 05130206, 1.8 miles west of Ringgold.	24.3	0	---	---
03436446 Fletchers Fork Tributary	Fletchers Fork to Little West Fork to Red River to Cumberland River	Lat 36°35'30", long 87°25'54", Montgomery County, Hydrologic Unit 05130206, 0.8 mile west of Ringgold.	0.88	0	---	---
03436460 Little West Fork	Red River to Cumberland River	Lat 36°35'30", long 87°23'23", Montgomery County, Hydrologic Unit 05130206, 1.6 miles east of Ringgold.	180	27.6	16.3	393

CUMBERLAND RIVER BASIN

Bedford, Moore counties, TN special study

A series of low-flow discharge measurements were made March 22, 1995, in the vicinity of Raus, TN (Bedford, Moore counties), to define areas of potential ground-water supplies, low-flow hydrology and quality of water (see page for water-quality data). The measurements were made during a period of constant base flow.

Stream	Tributary to	Location	Drainage area (mi^2)	Measurements discharge (ft^3/sec.)
		CUMBERLAND RIVER BASIN		
03580681 Hurricane Creek	Elk River to Tennessee River	Lat 35°21'43", long 86°17'37", Moore County, Hydrologic Unit 06030003, 0.3 mi southeast of Motlow State Community College.	.64	.42
035806484 Hurricane Creek	Elk River to Tennessee River	Lat 35°21'40", long 86°17'40", Moore County, Hydrologic Unit 06030003, 0.4 mi southeast of Motlow State Community College.	1.00	.69
03580688 Hurricane Creek	Elk River to Tennessee River	Lat 35°21'25", long 86°18'01", Moore County, Hydrologic Unit 06030003, on State Route 55, 4.8 mi west of Tullahoma.	1.25	.71
035965472 Renegar Branch	Shipman Creek to Duck River to Tennessee River	Lat 35°25'21", long 86°17'54", Bedford County, Hydrologic Unit 06040002, 2.5 mi northeast of Raus.	.20	.16
035965474 Renegar Branch Tributary	Renegar Branch to Shipman Creek to Duck River to Tennessee River	Lat 35°25'18", long 86°17'51", Bedford County, Hydrologic Unit 06040002, 0.4 mi south of Willow Grove.	.31	.13
035965478 Renegar Branch	Shipman Creek to Duck River to Tennessee River	Lat 35°25'35", long 86°17'50", Bedford County, Hydrologic Unit 06040002, 0.1 mi southwest of Willow Grove.	.67	.44
03597740 Prince Branch	Thompson Creek to Duck River to Tennessee River	Lat 35°22'10", long 86°19'51", Moore County, Hydrologic Unit 06040002, 2,8 mi northwest of Raysville.	.92	1.1
03597744 Prince Branch	Thompson Creek to Duck River to Tennessee River	Lat 35°22'28", long 86°20'16", Bedford County, Hydrologic Unit 06040002, 1.4 mi east of Hilltop.	1.08	1.6
03597746 Thompson Creek Tributary	Thompson Creek to Duck River to Tennessee River	Lat 35°22'22", long 86°19'22", Moore County, Hydrologic Unit 06040002, 2.1 mi east of Hilltop.	.09	.03
03597748 Thompson Creek Tributary	Thompson Creek to Duck River to Tennessee River	Lat 35°22'41", long 86°20'09", Bedford County, Hydrologic Unit 06040002, 1.3 mi south of Raus.	.37	.04
03597752 Bennet Branch Tributary	Bennet Branch to to Thompson Creek to Duck River to Tennessee River	Lat 35°22'54", long 86°19'05", Bedford County, Hydrologic Unit 06040002, on Route 130, 1.1 mi southeast of Raus.	.18	.03

CUMBERLAND RIVER BASIN

Bedford, Moore counties, TN special study--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measurements discharge (ft^3/sec.)
		CUMBERLAND RIVER BASIN--Continued		
03597755 Bennet Branch	Thompson Creek to Duck River to Tennessee River	Lat 35°23'34", long 86°19'39", Bedford County, Hydrologic Unit 06040002, 0.2 mi southeast of Raus.	1.54	.94
03597756 Powell Branch	Bennett Branch to Thompson Creek to Duck River to Tennessee River	Lat 35°23'37", long 86°19'02", Bedford County, Hydrologic Unit 06040002, 0.7 mi east of Raus.	.30	.01
03597757 Powell Branch	Bennett Branch to Thompson Creek to Duck River to Tennessee River	Lat 35°23'36", long 86°19'05", Bedford County, Hydrologic Unit 06040002, 0.6 mi east of Raus.	.36	.18
03597759 Powell Branch	Bennett Branch to Thompson Creek to Duck River to Tennessee River	Lat 35°23'37", long 86°19'40", Bedford County, Hydrologic Unit 06040002, on Route 276 0.05 mi southwest of Raus.	1.55	.53
03597761 Anderton Branch	Thompson Creek to Duck River to Tennessee River	Lat 35°24'06", long 86°18'28", Bedford County, Hydrologic Unit 06040002, 1.3 mi northeast of Raus.	.82	.87
03597762 Anderton Branch Tributary	Anderton Branch to Thompson Creek to Duck River to Tennessee River	Lat 35°24'07" long 86°18'30" Bedford County, Hydrologic Unit 06040002, 1.2 mi northeast of Raus.	.14	.08
03597764 Anderton Branch	Thompson Creek to Duck River to Tennessee River	Lat 35°24'13" long 86°18'50" Bedford County, Hydrologic Unit 06040002, 1.0 mi northeast of Raus.	1.13	.34
03597766 Anderton Branch	Thompson Creek to Duck River to Tennessee River	Lat 35°24'23", long 86°19'42", Bedford County, Hydrologic Unit 06040002, 0.8 mi north of Raus.	1.65	1.8
03597770 Anthony Branch	Thompson Creek to Duck River to Tennessee River	Lat 35°24'24", long 86°18'23", Bedford County, Hydrologic Unit 06040002, 1.5 mi northeast of Raus.	.56	.35
03597771 Anthony Branch	Thompson Creek to Duck River to Tennessee River	Lat 35°24'30", long 86°18'31", Bedford County, Hydrologic Unit 06040002, 1.4 mi northeast of Raus.	.74	.39
03597773 Anthony Branch	Thompson Creek to Duck River to Tennessee River	Lat 35°24'39", long 86°18'51" Bedford County, Hydrologic Unit 06040002, 1.4 mi northeast of Raus.	.91	.70
03597778 Anthony Branch	Thompson Creek to Duck River to Tennessee River	Lat 35°25'13", long 86°19'34", Bedford County, Hydrologic Unit 06040002, 1.7 mi north of Raus.	1.59	.92

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Water-quality partial-record stations are particular sites where chemical-quality, biological and/or sediment data are collected systematically over a period of years for use in hydrologic analyses. These data are collected usually less than quarterly. Samples collected at sites other than gaging stations and partial-record stations to give better areal coverage in a river basin are referred to as miscellaneous sites.

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

CUMBERLAND RIVER BASIN

03580681 - HURRICANE CREEK AT MOTLOW STATE COMMUNITY COLLEGE, TN

DATE	TIME	TEMPERATURE WATER (DEG C)	AGENCY COLLECTING SAMPLE (CODE NUMBER)	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
MAR 22...	0840	13.0	1028	81213	0.42	22	5.0	4.8	0.010	<0.020	0.03

DATE	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	SODIUM PERCENT	POTASSIUM, DISSOLVED (MG/L AS K)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	CADMIUM DISSOLVED (UG/L AS CD)
MAR 22...	0.010	6	1.7	0.40	1.1	0.2	26	0.60	1.7	1.6	<1.0

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	NICKEL, DISSOLVED (UG/L AS NI)	ZINC, DISSOLVED (UG/L AS ZN)	ALUMINUM, DISSOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	SPECIFIC CONDUCTANCE LAB (US/CM)	ALKALINITY LAB (MG/L AS CACO3)
MAR 22...	<5	1200	1	52	<10	26	710	60	0.03	24	<1.0

03580684 - HURRICANE CREEK BELOW MOTLOW STATE COMMUNITY COLLEGE, TN

DATE	TIME	TEMPERATURE WATER (DEG C)	AGENCY COLLECTING SAMPLE (CODE NUMBER)	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)
MAR 22...	0805	12.5	1028	81213	0.69	35	6.0	5.9	0.010	0.250

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

CUMBERLAND RIVER BASIN--Continued

03580684 - HURRICANE CREEK BELOW MOTLOW STATE COMMUNITY COLLEGE, TN--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 22...	0.250	0.260	0.260	0.06	0.020	14	4.8	0.60	1.5	0.2

DATE	SODIUM PERCENT	POTASSIUM, DISSOLVED (MG/L AS K)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	NICKEL, DISSOLVED (UG/L AS NI)
MAR 22...	18	0.70	2.5	2.2	<1.0	<5	860	1	42	<10

DATE	ZINC, DISSOLVED (UG/L AS ZN)	ALUMINUM, DISSOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	SPECIFIC CONDUCTANCE LAB (US/CM)	ALKALINITY LAB (MG/L AS CACO3)
MAR 22...	23	560	50	18	0.09	0.07	1.1	0.03	35	4.8

03580688 - HURRICANE CREEK NEAR RAYSVILLE, TN

DATE	TIME	TEMPERATURE WATER (DEG C)	AGENCY COLLECTING SAMPLE (CODE NUMBER)	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)
MAR 22...	0705	12.0	1028	81213	0.71	32	6.7	6.2	0.010	0.370

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 22...	0.370	0.380	0.380	0.03	0.010	12	3.6	0.80	1.7	0.2

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

CUMBERLAND RIVER BASIN--Continued

03580688 - HURRICANE CREEK NEAR RAYSVILLE, TN--Continued

DATE	SODIUM PERCENT	POTASSIUM, DISSOLVED (MG/L AS K)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	NICKEL, DISSOLVED (UG/L AS NI)
MAR 22...	22	0.70	3.3	2.8	<1.0	<5	370	<1	16	<10

DATE	ZINC, DISSOLVED (UG/L AS ZN)	ALUMINUM, DISSOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	SPECIFIC CONDUCTANCE LAB (US/CM)	ALKALINITY LAB (MG/L AS CACO3)
MAR 22...	25	330	32	18	0.06	0.04	1.6	0.03	35	4.5

035965472 - RENEGAR BRANCH NEAR RAUS, TN

DATE	TIME	TEMPERATURE WATER (DEG C)	AGENCY COLLECTING SAMPLE (CODE NUMBER)	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)
MAR 22...	0915	14.0	1028	81213	0.16	158	7.8	8.1	<0.010	0.240

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 22...	0.240	0.240	0.03	0.010	78	27	2.5	1.1	0.0

DATE	SODIUM PERCENT	POTASSIUM, DISSOLVED (MG/L AS K)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)
MAR 22...	3	0.40	1.4	7.4	<1.0	<5	6	<1	4

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

CUMBERLAND RIVER BASIN--Continued

035965472 - RENEGAR BRANCH NEAR RAUS, TN--Continued

DATE	NICKEL, DIS-SOLVED (UG/L AS NI)	ZINC, DIS-SOLVED (UG/L AS ZN)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	ALKA-LINITY LAB (MG/L AS CACO3)
MAR 22...	<10	5	<20	94	83	0.04	0.13	161	71

035965474 - RENEGAR BRANCH TRIBUTARY AT WILLOW GROVE, TN

DATE	TIME	TEMPER-ATURE WATER (DEG C)	AGENCY COL-LECTING SAMPLE (CODE NUMBER)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	PH WATER WHOLE LAB (STAND-ARD UNITS)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)
MAR 22...	0950	15.0	1028	81213	0.13	142	8.4	8.0	<0.010	0.080

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
MAR 22...	0.080	0.080	0.06	0.020	70	24	2.4	0.80	0.0

DATE	SODIUM PERCENT	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO4)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR 22...	2	0.40	0.80	6.7	<1.0	<5	28	<1	16

DATE	NICKEL, DIS-SOLVED (UG/L AS NI)	ZINC, DIS-SOLVED (UG/L AS ZN)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	ALKA-LINITY LAB (MG/L AS CACO3)
MAR 22...	<10	5	<20	86	73	0.03	0.12	143	63

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

CUMBERLAND RIVER BASIN--Continued

035965478 - RENEGAR BRANCH AT WILLOW GROVE, TN

DATE	TIME	TEMPERATURE WATER (DEG C)	AGENCY COLLECTING SAMPLE (CODE NUMBER)	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)
MAR 22...	1015	16.5	1028	81213	0.44	179	8.1	8.2	<0.010	0.130

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 22...	0.130	0.130	0.06	0.020	89	31	2.8	1.0	0.0

DATE	SODIUM PERCENT	POTASSIUM, DISSOLVED (MG/L AS K)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)
MAR 22...	2	0.60	1.2	7.1	<1.0	<5	9	<1	4

DATE	NICKEL, DISSOLVED (UG/L AS NI)	ZINC, DISSOLVED (UG/L AS ZN)	ALUMINUM, DISSOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SPECIFIC CONDUCTANCE LAB (US/CM)	ALKALINITY LAB (MG/L AS CACO3)
MAR 22...	<10	<4	<20	106	95	0.13	0.14	180	84

03597740 - PRINCE BRANCH NEAR RAYSVILLE, TN

DATE	TIME	TEMPERATURE WATER (DEG C)	AGENCY COLLECTING SAMPLE (CODE NUMBER)	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
MAR 22...	1115	14.5	1028	81213	1.1	114	8.1	7.9	<0.010	0.580	0.580	0.580

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

CUMBERLAND RIVER BASIN--Continued

03597740 - PRINCE BRANCH NEAR RAYSVILLE, TN--Continued

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	SODIUM PERCENT	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO4)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)
MAR 22...	<0.010	55	19	1.9	1.0	0.1	4	0.50	2.1	3.9	<1.0	<5

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	NICKEL, DIS-SOLVED (UG/L AS NI)	ZINC, DIS-SOLVED (UG/L AS ZN)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	ALKA-LINITY LAB (MG/L AS CACO3)
MAR 22...	11	3	2	<10	7	<20	64	60	0.19	0.09	117	48

03597744 - PRINCE BRANCH NEAR HILLTOP, TN

DATE	TIME	TEMPER-ATURE WATER (DEG C)	AGENCY COL-LECTING SAMPLE (CODE NUMBER)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	PH WATER WHOLE LAB (STAND-ARD UNITS)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)
MAR 22...	1050	14.5	1028	81213	1.6	129	7.6	8.0	<0.010	0.490

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
MAR 22...	0.490	0.490	0.06	0.020	69	24	2.1	1.0	0.0

DATE	SODIUM PERCENT	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO4)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR 22...	3	0.60	2.0	4.3	<1.0	<5	12	<1	10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

CUMBERLAND RIVER BASIN--Continued

03597744 - PRINCE BRANCH NEAR HILLTOP, TN--Continued

DATE	NICKEL, DIS-SOLVED (UG/L AS NI)	ZINC, DIS-SOLVED (UG/L AS ZN)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	ALKA-LINITY LAB (MG/L AS CACO3)
MAR 22...	<10	5	<20	80	74	0.35	0.11	145	63

03597746 - THOMPSON CREEK TRIBUTARY NEAR HILLTOP, TN

DATE	TIME	TEMPER-ATURE WATER (DEG C)	AGENCY COL-LECTING SAMPLE (CODE NUMBER)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	PH WATER WHOLE LAB (STAND-ARD UNITS)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)
MAR 22...	0930	15.0	1028	81213	0.03	172	7.6	7.6	<0.010	0.690

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
MAR 22...	0.690	0.690	0.25	0.080	88	31	2.6	1.5	0.1

DATE	SODIUM PERCENT	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO4)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR 22...	4	0.90	2.7	8.0	<1.0	<5	24	<1	26

DATE	NICKEL, DIS-SOLVED (UG/L AS NI)	ZINC, DIS-SOLVED (UG/L AS ZN)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	ALKA-LINITY LAB (MG/L AS CACO3)
MAR 22...	<10	17	20	104	97	0.01	0.14	185	78

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

CUMBERLAND RIVER BASIN--Continued

03597748 - THOMPSON CREEK TRIBUTARY NEAR RAUS, TN

DATE	TIME	TEMPERATURE WATER (DEG C)	AGENCY COLLECTING SAMPLE (CODE NUMBER)	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)
MAR 22...	0900	14.0	1028	81213	0.04	246	7.3	8.3	<0.010	0.190

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 22...	0.190	0.190	0.06	0.020	130	45	3.5	1.2	0.0

DATE	SODIUM PERCENT	POTASSIUM, DISSOLVED (MG/L AS K)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)
MAR 22...	2	0.60	2.0	6.0	<1.0	<5	5	<1	5

DATE	NICKEL, DISSOLVED (UG/L AS NI)	ZINC, DISSOLVED (UG/L AS ZN)	ALUMINUM, DISSOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SPECIFIC CONDUCTANCE LAB (US/CM)	ALKALINITY LAB (MG/L AS CACO3)
MAR 22...	<10	7	<20	138	132	0.02	0.19	249	122

03597752 - BENNETT BRANCH TRIBUTARY AT RAUS, TN

DATE	TIME	TEMPERATURE WATER (DEG C)	AGENCY COLLECTING SAMPLE (CODE NUMBER)	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)
MAR 22...	1110	15.0	1028	81213	0.03	219	7.6	8.3	<0.010	0.530

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

CUMBERLAND RIVER BASIN--Continued

03597752 - BENNETT BRANCH TRIBUTARY AT RAUS, TN--Continued

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
MAR 22...	0.530	0.530	0.15	0.050	110	38	3.0	1.1	0.0

DATE	SODIUM PERCENT	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO4)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR 22...	2	1.1	2.7	6.5	<1.0	<5	9	<1	8

DATE	NICKEL, DIS-SOLVED (UG/L AS NI)	ZINC, DIS-SOLVED (UG/L AS ZN)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	ALKA-LINITY LAB (MG/L AS CACO3)
MAR 22...	<10	26	<20	116	116	0.01	0.16	217	101

03597755 - BENNETT BRANCH AT RAUS, TN

DATE	TIME	TEMPER-ATURE WATER (DEG C)	AGENCY COL-LECTING SAMPLE (CODE NUMBER)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	PH WATER WHOLE LAB (STAND-ARD UNITS)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)
MAR 22...	1020	15.0	1028	81213	0.94	219	7.7	8.2	<0.010	0.340

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
MAR 22...	0.340	0.340	0.12	0.040	110	38	2.8	1.9	0.1

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

CUMBERLAND RIVER BASIN--Continued

03597755 - BENNETT BRANCH AT RAUS, TN--Continued

DATE	SODIUM PERCENT	POTASSIUM, DISSOLVED (MG/L AS K)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)
MAR 22...	4	0.70	3.4	5.5	<1.0	<5	5	<1	6

DATE	NICKEL, DISSOLVED (UG/L AS NI)	ZINC, DISSOLVED (UG/L AS ZN)	ALUMINUM, DISSOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SPECIFIC CONDUCTANCE LAB (US/CM)	ALKALINITY LAB (MG/L AS CACO3)
MAR 22...	<10	7	<20	120	116	0.30	0.16	220	103

03597756 - POWELL BRANCH NEAR RAUS, TN

DATE	TIME	TEMPERATURE WATER (DEG C)	AGENCY COLLECTING SAMPLE (CODE NUMBER)	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)
MAR 22...	0930	15.0	1028	81213	0.01	403	6.6	7.6	<0.010	1.40

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 22...	1.40	1.40	0.31	0.100	220	74	7.5	1.6	0.0

DATE	SODIUM PERCENT	POTASSIUM, DISSOLVED (MG/L AS K)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)
MAR 22...	2	0.90	4.4	8.4	<1.0	<5	3	<1	44

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

CUMBERLAND RIVER BASIN--Continued

03597756 - POWELL BRANCH NEAR RAUS, TN--Continued

DATE	NICKEL, DIS-SOLVED (UG/L AS NI)	ZINC, DIS-SOLVED (UG/L AS ZN)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	ALKA-LINITY LAB (MG/L AS CACO3)
MAR 22...	<10	18	<20	226	224	0.01	0.31	410	201

03597757 - POWELL BRANCH AT RAUS, TN

DATE	TIME	TEMPER-ATURE WATER (DEG C)	AGENCY COL-LECTING SAMPLE (CODE NUMBER)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	PH WATER WHOLE LAB (STAND-ARD UNITS)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)
MAR 22...	0940	15.0	1028	81213	0.18	328	7.2	8.3	<0.010	0.960

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
MAR 22...	0.960	0.960	0.15	0.050	170	58	5.1	1.4	0.0

DATE	SODIUM PERCENT	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO4)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR 22...	2	0.80	3.7	5.3	<1.0	<5	22	<1	23

DATE	NICKEL, DIS-SOLVED (UG/L AS NI)	ZINC, DIS-SOLVED (UG/L AS ZN)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	ALKA-LINITY LAB (MG/L AS CACO3)
MAR 22...	<10	10	<20	178	173	0.09	0.24	319	158

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

CUMBERLAND RIVER BASIN--Continued

03597759 - POWELL BRANCH AT ROUTE 276 AT RAUS, TN

DATE	TIME	TEMPERATURE WATER (DEG C)	AGENCY COLLECTING SAMPLE (CODE NUMBER)	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)
MAR 22...	1015	15.5	1028	81213	0.53	311	7.8	8.3	0.010	0.670

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 22...	0.670	0.680	0.680	0.21	0.070	160	57	4.4	1.4	0.0

DATE	SODIUM PERCENT	POTASSIUM, DISSOLVED (MG/L AS K)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	NICKEL, DISSOLVED (UG/L AS NI)
MAR 22...	2	0.90	3.1	4.8	<1.0	<5	3	<1	7	<10

DATE	ZINC, DISSOLVED (UG/L AS ZN)	ALUMINUM, DISSOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	SPECIFIC CONDUCTANCE LAB (US/CM)	ALKALINITY LAB (MG/L AS CACO3)
MAR 22...	5	<20	178	167	0.25	0.24	3.0	0.03	306	153

03597761 - ANDERTON BRANCH NEAR LEDFORDS MILL, TN

DATE	TIME	TEMPERATURE WATER (DEG C)	AGENCY COLLECTING SAMPLE (CODE NUMBER)	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)
MAR 22...	0945	13.5	1028	81213	0.87	113	8.0	8.0	<0.010	0.360

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

CUMBERLAND RIVER BASIN--Continued

03597761 - ANDERTON BRANCH NEAR LEDFORDS MILL, TN--Continued

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
MAR 22...	0.360	0.360	0.03	0.010	47	16	1.8	1.6	0.1

DATE	SODIUM PERCENT	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO4)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR 22...	7	0.80	2.9	4.2	<1.0	<5	17	<1	34

DATE	NICKEL, DIS-SOLVED (UG/L AS NI)	ZINC, DIS-SOLVED (UG/L AS ZN)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	ALKA-LINITY LAB (MG/L AS CACO3)
MAR 22...	<10	7	<20	54	54	0.13	0.07	106	42

03597762 - ANERSTON BRANCH TRIBUTARY NEAR RAUS, TN

DATE	TIME	TEMPER-ATURE WATER (DEG C)	AGENCY COL-LECTING SAMPLE (CODE NUMBER)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	PH WATER WHOLE LAB (STAND-ARD UNITS)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)
MAR 22...	0915	14.0	1028	81213	0.08	390	7.5	8.2	<0.010	0.070

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
MAR 22...	0.070	0.070	0.03	0.010	150	56	3.3	13	0.5

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

CUMBERLAND RIVER BASIN--Continued

03597762 - ANERSTON BRANCH TRIBUTARY NEAR RAUS, TN--Continued

DATE	SODIUM PERCENT	POTASSIUM, DISSOLVED (MG/L AS K)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)
MAR 22...	15	2.4	25	9.8	<1.0	<5	7	<1	3

DATE	NICKEL, DISSOLVED (UG/L AS NI)	ZINC, DISSOLVED (UG/L AS ZN)	ALUMINUM, DISSOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SPECIFIC CONDUCTANCE LAB (US/CM)	ALKALINITY LAB (MG/L AS CACO3)
MAR 22...	<10	46	<20	194	189	0.04	0.26	352	132

03597764 - ANDERTON BRANCH AT RAUS, TN

DATE	TIME	TEMPERATURE WATER (DEG C)	AGENCY COLLECTING SAMPLE (CODE NUMBER)	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)
MAR 22...	1035	13.0	1028	81213	0.84	215	7.1	7.8	<0.010	0.510

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 22...	0.510	0.510	0.06	0.020	92	32	3.0	3.0	0.1

DATE	SODIUM PERCENT	POTASSIUM, DISSOLVED (MG/L AS K)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)
MAR 22...	7	1.0	5.5	6.4	<1.0	<5	10	<1	2

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

CUMBERLAND RIVER BASIN--Continued

03597764 - ANDERTON BRANCH AT RAUS, TN--Continued

DATE	NICKEL, DIS-SOLVED (UG/L AS NI)	ZINC, DIS-SOLVED (UG/L AS ZN)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	ALKA-LINITY LAB (MG/L AS CACO3)
MAR 22...	<10	18	<20	108	104	0.24	0.15	200	85

03597766 - ANDERTON BRANCH AT ROUTE 276 AT RAUS, TN

DATE	TIME	TEMPER-ATURE WATER (DEG C)	AGENCY COL-LECTING SAMPLE (CODE NUMBER)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	PH WATER WHOLE LAB (STAND-ARD UNITS)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)
MAR 22...	1000	15.5	1028	81213	1.8	222	7.8	7.9	<0.010	0.580

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
MAR 22...	0.580	0.580	0.12	0.040	110	39	3.2	2.6	0.1

DATE	SODIUM PERCENT	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO4)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR 22...	5	1.6	4.9	6.3	<1.0	<5	11	<1	19

DATE	NICKEL, DIS-SOLVED (UG/L AS NI)	ZINC, DIS-SOLVED (UG/L AS ZN)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	ALKA-LINITY LAB (MG/L AS CACO3)
MAR 22...	<10	20	<20	122	121	0.59	0.17	231	102

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

CUMBERLAND RIVER BASIN--Continued

03597770 - ANTHONY BRANCH NEAR LEDFORDS MILL, TN

DATE	TIME	TEMPERATURE WATER (DEG C)	AGENCY COLLECTING SAMPLE (CODE NUMBER)	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)
MAR 22...	1230	15.0	1028	81213	0.35	132	8.9	8.1	<0.010	<0.020	0.03	0.010

DATE	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	SODIUM PERCENT	POTASSIUM, DISSOLVED (MG/L AS K)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	IRON, DISSOLVED (UG/L AS FE)
MAR 22...	65	23	1.9	0.80	0.0	3	0.50	1.0	6.2	<1.0	<5	18

DATE	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	NICKEL, DISSOLVED (UG/L AS NI)	ZINC, DISSOLVED (UG/L AS ZN)	ALUMINUM, DISSOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SPECIFIC CONDUCTANCE LAB (US/CM)	ALKALINITY LAB (MG/L AS CACO3)
MAR 22...	<1	12	<10	<4	<20	74	69	0.07	0.10	138	60

03597771 - ANTHONY BRANCH NEAR RAUS, TN

DATE	TIME	TEMPERATURE WATER (DEG C)	AGENCY COLLECTING SAMPLE (CODE NUMBER)	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)
MAR 22...	1145	17.0	1028	81213	0.39	142	7.7	8.0	0.010	0.010

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 22...	0.010	0.020	0.020	0.03	0.010	69	24	2.1	0.80	0.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

CUMBERLAND RIVER BASIN--Continued

03597771 - ANTHONY BRANCH NEAR RAUS, TN--Continued

DATE	SODIUM PERCENT	POTASSIUM, DISSOLVED (MG/L AS K)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	NICKEL, DISSOLVED (UG/L AS NI)
MAR 22...	2	0.50	1.1	6.1	<1.0	<5	36	<1	23	<10

DATE	ZINC, DISSOLVED (UG/L AS ZN)	ALUMINUM, DISSOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	SPECIFIC CONDUCTANCE LAB (US/CM)	ALKALINITY LAB (MG/L AS CACO3)
MAR 22...	6	<20	80	73	0.08	0.11	0.04	0.03	143	63

03597773 - ANTHONY BRANCH NEAR WILLOW GROVE, TN

DATE	TIME	TEMPERATURE WATER (DEG C)	AGENCY COLLECTING SAMPLE (CODE NUMBER)	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)
MAR 22...	1150	14.5	1028	81213	0.70	231	7.2	7.7	<0.010	0.270

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 22...	0.270	0.270	0.21	0.070	110	40	3.4	1.0	0.0

DATE	SODIUM PERCENT	POTASSIUM, DISSOLVED (MG/L AS K)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)
MAR 22...	2	0.90	1.5	7.6	<1.0	<5	20	<1	22

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

CUMBERLAND RIVER BASIN--Continued

03597773 - ANTHONY BRANCH NEAR WILLOW GROVE, TN--Continued

DATE	NICKEL, DIS-SOLVED (UG/L AS NI)	ZINC, DIS-SOLVED (UG/L AS ZN)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	ALKA-LINITY LAB (MG/L AS CACO3)
MAR 22...	<10	6	<20	132	121	0.25	0.18	230	108

03597778 - ANTHONY BRANCH AT MIDWAY, TN

DATE	TIME	TEMPER-ATURE WATER (DEG C)	AGENCY COL-LECTING SAMPLE (CODE NUMBER)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	PH WATER WHOLE LAB (STAND-ARD UNITS)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)
MAR 22...	0830	13.5	1028	81213	0.92	300	7.9	8.2	<0.010	0.380

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
MAR 22...	0.380	0.380	0.18	0.060	140	49	4.2	1.1	0.0

DATE	SODIUM PERCENT	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO4)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR 22...	2	0.70	1.7	7.4	<1.0	<5	8	<1	11

DATE	NICKEL, DIS-SOLVED (UG/L AS NI)	ZINC, DIS-SOLVED (UG/L AS ZN)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	ALKA-LINITY LAB (MG/L AS CACO3)
MAR 22...	<10	<4	<20	144	146	0.36	0.20	273	134

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

CUMBERLAND RIVER BASIN--Continued

352328086181601 - KEMPS SPRING AT RAUS, TN

DATE	TIME	TEMPERATURE WATER (DEG C)	AGENCY COLLECTING SAMPLE (CODE NUMBER)	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)
APR 25...	1030	18.5	1028	81213	<0.01	591	5.9	5.9	0.030	0.040

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
APR 25...	0.040	0.070	0.070	0.09	0.030	43	12	3.2	34	2

DATE	SODIUM PERCENT	POTASSIUM, DISSOLVED (MG/L AS K)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	NICKEL, DISSOLVED (UG/L AS NI)
APR 25...	62	1.7	49	1.6	2.5	<5	98000	<1	8600	200

DATE	ZINC, DISSOLVED (UG/L AS ZN)	ALUMINUM, DISSOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	SPECIFIC CONDUCTANCE LAB (US/CM)	ALKALINITY LAB (MG/L AS CACO3)
APR 25...	29	20	152	248	0.21	0.18	0.10	301	65

352351086183701 - SONS SPRING AT RAUS, TN

DATE	TIME	TEMPERATURE WATER (DEG C)	AGENCY COLLECTING SAMPLE (CODE NUMBER)	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)
APR 25...	1300	16.0	1028	81213	0.01	532	5.9	6.7	0.010	3.29

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

CUMBERLAND RIVER BASIN--Continued

352351086183701 - SONS SPRING AT RAUS, TN--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	SODIUM PERCENT
APR 25...	3.29	3.30	3.30	<0.010	220	77	6.1	20	0.6	16

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	NICKEL, DISSOLVED (UG/L AS NI)	ZINC, DISSOLVED (UG/L AS ZN)
APR 25...	5.2	34	26	3.1	<5	80	<1	2800	110	64

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	SPECIFIC CONDUCTANCE LAB (US/CM)	ALKALINITY LAB (MG/L AS CACO3)
APR 25...	30	324	296	0.01	0.44	15	0.03	536	184

352404086180900 - SALT PETER CAVE

DATE	TIME	TEMPERATURE WATER (DEG C)	AGENCY COLLECTING SAMPLE (CODE NUMBER)	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)
MAR 22...	1400	15.5	1028	81213	0.28	295	7.0	7.7	<0.010	1.00

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAR 22...	1.00	1.00	0.09	0.030	150	52	4.7	2.3	0.1

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

CUMBERLAND RIVER BASIN--Continued

352404086180900 - SALT PETER CAVE--Continued

DATE	SODIUM PERCENT	POTASSIUM, DISSOLVED (MG/L AS K)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)
MAR 22...	3	0.80	4.6	8.5	<1.0	<5	<3	<1	1

DATE	NICKEL, DISSOLVED (UG/L AS NI)	ZINC, DISSOLVED (UG/L AS ZN)	ALUMINUM, DISSOLVED (UG/L AS AL)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SPECIFIC CONDUCTANCE LAB (US/CM)	ALKALINITY LAB (MG/L AS CACO3)
MAR 22...	<10	7	<20	170	160	0.13	0.23	299	138

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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

DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
GREEN RIVER BASIN									
03312255 - SALT LICK CREEK AT RED BOILING SPRINGS, TN									
OCT 03...	1125	4.2	209	17.5	MAR 08...	1010	328	82	7.0
NOV 03...	1315	5.4	197	15.0	APR 24...	1100	28	129	11.0
DEC 12...	1030	32	89	7.5	JUN 07...	1415	12	170	24.0
JAN 25...	1030	15	106	5.0	JUL 17...	1130	4.4	205	25.5
FEB 28...	0830	15	139	10.0	AUG 30...	1000	2.7	251	21.5
CUMBERLAND RIVER BASIN									
03414500 - EAST FORK OBEY RIVER NEAR JAMESTOWN, TN									
OCT 17...	1120	28	366	15.5	JUL 17...	1800	23	282	25.5
MAR 01...	1320	532	141	8.0					
03416000 - WOLF RIVER NEAR BYRDSTOWN, TN									
NOV 01...	1100	14	366	14.0	JUL 17...	1450	31	298	28.0
MAR 01...	1000	105	239	9.0					
03418070 - ROARING RIVER ABOVE GAINESBORO, TN									
FEB 28...	1330	98	242	11.0					
03420185 - COLLINS RIVER AT BEERSHEBA SPRINGS, TN									
DEC 13...	1150	3.6	33	8.0	MAR 06...	1510	7.4	176	13.0
03420200 - COLLINS RIVER NEAR TARLTON, TN									
OCT 05...	1000	24	178	15.0	MAR 06...	1315	1700	61	9.5
NOV 15...	1100	80	113	13.5	09...	0945	2900	52	8.0
DEC 13...	1300	571	38	10.0	APR 26...	1345	377	66	14.5
JAN 23...	1220	418	63	7.5	JUN 05...	1820	23	148	18.0
30...	1100	938	63	7.0	JUL 19...	1145	13	196	18.0
					AUG 28...	1700	35	104	21.5

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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

DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
			CUMBERLAND RIVER BASIN--Continued						
			03421000 - COLLINS RIVER NEAR MCMINNVILLE, TN						
OCT					APR				
04...	0945	156	245	17.0	27...	0900	860	154	13.5
NOV					JUN				
15...	0800	277	236	14.0	06...	1130	381	236	21.0
DEC					JUL				
20...	0845	620	137	8.0	19...	0845	172	291	24.5
JAN					AUG				
24...	0930	946	162	6.0	29...	1240	193	300	25.0
MAR									
02...	0845	1100	158	7.5					
			03422500 - CANEY FORK NEAR ROCK ISLAND, TN						
NOV					APR				
02...	1420	46	212	15.0	27...	1220	3370	140	15.5
DEC					JUN				
19...	1300	3400	94	9.5	06...	1500	2340	185	20.5
JAN					JUL				
24...	1315	3280	129	7.5	18...	1315	73	245	20.0
FEB					AUG				
28...	1615	3210	129	9.5	29...	0815	69	270	20.5
			03424730 - SMITH FORK AT TEMPERANCE HALL, TN						
OCT					APR				
06...	0915	24	284	17.0	28...	1000	178	245	14.0
NOV					JUN				
14...	1300	73	361	15.5	07...	1045	130	325	24.0
DEC					JUL				
12...	1330	502	265	8.5	07...	0930	73	299	25.5
JAN					AUG				
27...	1145	135	351	5.5	29...	1430	13	261	30.0
FEB					31...	1000	11	265	26.5
27...	1030	138	322	11.5					
			03425000 - CUMBERLAND RIVER AT CARTHAGE, TN						
FEB					SEP				
02...	1230	9840	210	10.0	01...	1140	15900	186	20.5
JUN									
28...	1030	3350	190	18.5					
			03426385 - MANSKER CREEK ABOVE GOODLETTSVILLE, TN						
OCT					APR				
06...	0815	3.3	465	14.0	17...	1315	9.2	385	19.5
NOV					JUN				
16...	1300	7.3	259	14.0	06...	1020	9.6	420	22.0
DEC					JUL				
12...	0940	73	375	7.0	17...	1135	1.4	428	30.0
JAN					AUG				
24...	1310	38	337	5.5	28...	1215	1.2	390	28.5
MAR									
01...	1035	16	301	6.5					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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

DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
				CUMBERLAND RIVER BASIN--Continued					
				03427500 - EAST FORK STONES RIVER NEAR LASCASSAS, TN					
NOV					AUG				
17...	0945	65	439	14.0	15...	1308	28	362	29.5
MAR					SEP				
09...	1130	2270	327	9.0	08...	1005	9.9	323	23.5
				03428500 - WEST FORK STONES RIVER NEAR SMYRNA, TN					
MAR					SEP				
09...	1430	2070	323	10.0	08...	1318	31	514	24.0
JUL									
14...	1115	51	483	27.0					
				03430147 - STONERS CREEK NEAR HERMITAGE, TN					
OCT					APR				
12...	0720	5.8	523	15.0	19...	1030	8.0	448	19.0
NOV					JUN				
18...	1045	4.6	539	12.5	08...	1020	8.3	450	22.0
DEC					JUL				
21...	1105	15	460	9.0	19...	0800	0.85	420	21.0
JAN					AUG				
25...	1245	22	420	7.5	31...	1110	0.51	510	26.0
MAR									
03...	0815	10	448	5.5					
				03430550 - MILL CREEK NEAR NOLENSVILLE, TN					
OCT					APR				
12...	1050	7.4	500	15.5	21...	0930	301	323	16.0
NOV					JUN				
17...	1125	13	531	13.5	07...	1125	16	447	22.0
JAN					JUL				
31...	0950	64	495	2.5	18...	1300	1.2	444	27.0
MAR					AUG				
03...	1220	21	482	5.5	29...	1045	1.9	491	25.0
				03431000 - MILL CREEK NEAR ANTIOCH, TN					
OCT					APR				
05...	1315	8.1	525	18.5	18...	1400	52	420	19.5
NOV					JUN				
17...	1400	22	534	14.5	07...	0845	22	391	23.0
DEC					JUL				
13...	0800	148	200	7.5	19...	1330	1.7	448	28.5
JAN					AUG				
27...	1130	60	492	4.5	31...	0840	2.4	430	26.5
MAR									
03...	1040	33	488	5.5					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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

DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
				CUMBERLAND RIVER BASIN--Continued					
				03431300 - BROWNS CREEK AT STATE FAIRGROUNDS AT NASHVILLE, TN					
OCT					MAY				
03...	0755	4.4	320	19.0	18...	1335	265	191	20.5
NOV					JUN				
16...	0850	4.8	498	15.0	05...	0805	5.2	571	19.0
JAN					JUL				
24...	0820	15	542	7.0	19...	0900	0.76	565	25.5
FEB					AUG				
27...	1005	8.4	557	12.0	28...	1400	1.6	564	30.5
APR									
17...	0820	11	363	17.5					
				034315005 - CUMBERLAND RIVER AT WOODLAND STREET AT NASHVILLE, TN					
OCT					JUL				
21...	1100	4410	218	19.0	25...	1100	6200	209	25.0
JAN					AUG				
10...	1015	16800	273	6.5	08...	1000	7210	215	25.5
MAR									
17...	1020	32600	203	11.0					
				03431599 - WHITES CREEK NEAR BORDEAUX, TN					
OCT					APR				
06...	1135	5.1	549	17.0	17...	1100	23	420	18.5
NOV					JUN				
18...	0820	9.4	--	10.0	06...	1310	20	435	26.0
DEC					JUL				
12...	1245	124	--	8.5	17...	1400	2.7	479	30.0
JAN					AUG				
25...	0930	55	398	3.5	23...	1355	3.9	510	29.5
MAR									
01...	1220	29	420	7.0					
				03431700 - RICHLAND CREEK AT CHARLOTTE AVENUE AT NASHVILLE, TN					
OCT					APR				
03...	1215	8.3	332	19.5	19...	1230	8.4	497	19.5
NOV					JUN				
16...	1035	6.3	572	15.5	08...	0810	7.6	480	21.0
DEC					JUL				
19...	0945	21	580	8.5	18...	0820	1.9	513	23.5
JAN					AUG				
30...	1345	26	545	7.0	29...	0810	2.6	540	23.5
FEB									
27...	1225	19	517	12.5					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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

DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
CUMBERLAND RIVER BASIN--Continued									
03431800 - SYCAMORE CREEK NEAR ASHLAND CITY, TN									
NOV					JUL				
15...	1240	38	295	16.5	14...	0910	24	298	26.5
MAR									
13...	1040	178	148	15.0					
03432350 - HARPETH RIVER AT FRANKLIN, TN									
NOV					JUN				
14...	0935	104	440	13.5	05...	0900	96	382	21.5
DEC					AUG				
20...	1315	188	360	7.5	24...	1231	24	325	24.5
JAN					SEP				
30...	1030	524	340	5.5	06...	1445	6.2	404	23.0
FEB					07...	1030	3.9	419	20.5
28...	1155	126	378	11.0	08...	0900	1.7	427	23.0
APR									
20...	1015	142	410	20.0					
03432400 - HARPETH RIVER BELOW FRANKLIN, TN									
OCT					APR				
04...	1120	22	455	18.0	20...	1245	184	399	19.0
NOV					JUN				
14...	1205	114	407	15.0	05...	1230	118	400	22.0
DEC					AUG				
20...	0935	206	380	7.0	24...	0930	41	402	24.0
FEB					SEP				
28...	0850	150	393	11.5	07...	1230	11	541	23.5
03433500 - HARPETH RIVER AT BELLEVUE, TN									
OCT					JUN				
04...	1345	58	412	20.0	02...	0740	331	356	20.5
NOV					JUL				
15...	0750	210	435	14.0	13...	1305	43	409	30.0
DEC					AUG				
19...	1300	473	340	8.5	21...	1420	152	283	27.5
FEB					SEP				
01...	1245	689	320	8.5	01...	0940	28	412	27.0
28...	1000	301	309	11.5					
APR									
27...	1225	381	369	15.5					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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

DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
CUMBERLAND RIVER BASIN--Continued									
03434500 - HARPETH RIVER NEAR KINGSTON SPRINGS, TN									
OCT 05...	0925	133	365	16.0	MAY 15...	1225	7000	183	19.5
NOV 15...	1005	324	393	14.5	JUL 13...	0830	107	316	27.5
FEB 28...	0705	508	317	11.5	AUG 21...	1220	314	315	27.5
APR 27...	0825	681	321	19.0					
03435305 - RED RIVER BELOW HIGHWAY 161 NEAR BARREN PLAIN, TN									
OCT 03...	0945	69	327	19.0	MAY 19...	1330	13000	169	18.0
NOV 14...	0955	81	438	14.5	31...	1050	706	238	18.0
DEC 14...	1210	827	370	8.5	JUL 11...	1130	217	417	24.5
JAN 25...	1210	810	199	9.5	AUG 24...	0930	105	413	24.5
MAR 07...	1200	1210	221	--	31...	0925	84	442	25.5
03436100 - RED RIVER AT PORT ROYAL, TN									
NOV 14...	1300	152	445	15.0	JUL 11...	0855	356	414	24.0
MAR 07...	1420	2560	330	15.5					
03436400 - NOAHS SPRING BRANCH AT FORT CAMPBELL, KY-TENN									
OCT 04...	0900	9.2	289	15.5	APR 19...	1130	30	325	16.5
18...	1100	9.7	309	15.0	MAY 25...	1030	87	281	--
NOV 16...	0955	9.1	379	13.0	JUL 12...	0920	21	348	19.5
DEC 05...	1230	17	357	14.0	AUG 23...	0945	21	371	19.0
JAN 12...	0935	59	270	13.5					
MAR 29...	1240	60	309	14.0					
03436420 - PINEY FORK AT FORT CAMPBELL, KY-TN									
JAN 10...	1315	12	157	9.0	APR 20...	1305	3.8	375	18.0
FEB 16...	1140	398	190	10.0	MAY 24...	1300	24	174	21.0
MAR 28...	1330	7.5	192	17.0					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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

DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
CUMBERLAND RIVER BASIN--Continued									
03436426 - LITTLE WEST FORK NEAR FORT CAMPBELL, KY-TN									
OCT					MAR				
04...	1320	12	318	16.5	29...	0940	73	301	12.0
18...	1049	10	376	16.0	APR				
NOV					19...	1350	36	338	20.0
17...	0930	12	377	13.0	MAY				
DEC					24...	1145	138	256	17.5
06...	1215	20	356	13.0	JUL				
JAN					12...	1140	26	344	22.5
12...	1205	124	163	8.0	AUG				
FEB					23...	1310	23	356	21.5
16...	0900	1070	102	9.5					
03436690 - YELLOW CREEK AT ELLIS MILLS, TN									
NOV					JUL				
15...	1105	32	342	16.0	05...	1130	85	200	21.0
MAR									
09...	1135	666	148	15.0					
TENNESSEE RIVER BASIN									
03465500 - NOLICHUCKY RIVER AT EMBREEVILLE, TN									
AUG									
09...	1835	1030	56	23.0					
03466228 - SINKING CREEK AT AFTON, TN									
AUG									
17...	1555	4.8	442	24.0					
03469175 - LITTLE PIGEON RIVER ABOVE SEVIERVILLE, TN									
JUL					SEP				
28...	1135	38	120	25.5	08...	1540	39	83	23.5
03491000 - BIG CREEK NEAR ROGERSVILLE, TN									
APR					AUG				
19...	1225	22	334	20.0	10...	1335	6.0	376	22.5

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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

DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
TENNESSEE RIVER BASIN--Continued									
03491544 - CROCKETT CREEK BELOW ROGERSVILLE, TN									
APR 19...	1630	1.5	433	24.0	AUG 10...	1750	1.3	452	24.0
03498500 - LITTLE RIVER NEAR MARYVILLE, TN									
JUL 28...	1720	81	--	26.5	SEP 08...	1200	75	139	22.5
AUG 15...	1500	--	136	27.5					
03498850 - LITTLE RIVER NEAR ALCOA, TN									
SEP 07...	1630	81	163	23.5					
03528000 - CLINCH RIVER ABOVE TAZEWELL, TN									
JUL 25...	1100	300	342	27.5	AUG 08...	1500	317	364	27.0
					31...	1350	189	365	29.0
03536450 - FIRST CREEK NEAR OAK RIDGE, TN									
NOV 08...	1050	0.25	--	14.0	DEC 06...	0930	0.78	--	13.0
					20...	1000	0.35	--	1.0
03538600 - OBED RIVER AT CROSSVILLE, TN									
DEC 13...	1210	12	99	8.5	JUN 05...	1255	3.1	119	22.5
JAN 30...	1130	32	68	4.6	JUL 25...	1355	2.0	143	24.5
APR 25...	1000	37	67	15.0	SEP 20...	1045	4.0	156	19.0
03540500 - EMORY RIVER AT OAKDALE, TN									
APR 26...	1330	2040	46	12.5	SEP 19...	1300	142	203	22.0
AUG 16...	1315	--	93	31.0					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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

DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
TENNESSEE RIVER BASIN--Continued									
03543500 - SEWEE CREEK NEAR DECATUR, TN									
NOV 21...	1620	44	290	14.0					
035661285 - NORTH MOUSE CREEK NEAR ROCKY MT. HOLLOW NEAR ATHENS, TN									
JAN 20...	1355	188	236	9.5	MAY 17...	1355	78	248	17.5
FEB 27...	1245	83	271	12.0	AUG 28...	1315	31	--	27.0
03579620 - ROCK CREEK AT TULLAHOMA, TN									
OCT 06...	1115	1.1	121	16.0	APR 26...	0930	9.2	61	13.0
NOV 15...	1000	2.2	117	13.5	JUN 01...	0900	2.3	129	18.5
DEC 12...	1245	19	57	7.5	JUL 11...	1300	1.3	126	22.5
JAN 20...	1040	20	57	6.0	AUG 22...	0815	5.6	125	22.5
MAR 08...	1015	415	36	6.0					
03597210 - GARRISON FORK ABOVE L&N RAILROAD AT WARTRACE, TN									
OCT 05...	1100	18	328	16.5	APR 25...	1015	105	289	12.5
NOV 16...	1115	34	340	14.5	MAY 31...	1215	33	298	20.5
DEC 14...	1400	140	305	10.0	JUL 12...	1200	13	303	26.0
JAN 24...	1300	76	308	5.0	AUG 22...	1320	21	261	26.5
MAR 06...	1245	317	283	11.5					
03597590 - WARTRACE CREEK BELOW COUNTY ROAD AT WARTRACE, TN									
OCT 05...	0915	3.3	429	16.0	APR 25...	1245	31	404	13.5
NOV 16...	0915	10	445	14.5	MAY 31...	0945	3.9	340	20.0
DEC 14...	1145	49	401	8.0	JUL 12...	0915	0.80	368	23.5
JAN 24...	1000	22	420	3.0	AUG 22...	1411	2.7	198	26.5
MAR 06...	1000	132	358	11.5					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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

DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
			TENNESSEE RIVER BASIN--Continued						
			03598000 - DUCK RIVER NEAR SHELBYVILLE, TN						
OCT					APR				
06...	0825	249	213	18.0	26...	1211	378	285	15.0
NOV					JUN				
15...	1342	516	193	16.5	01...	1225	287	207	21.0
DEC					JUL				
19...	1410	487	237	8.5	11...	0855	237	215	23.5
JAN					AUG				
25...	1030	609	211	5.5	23...	1321	251	236	25.0
MAR									
08...	1255	9740	151	9.0					
			03599500 - DUCK RIVER AT COLUMBIA, TN						
OCT					APR				
07...	0917	237	291	19.5	28...	1135	868	354	16.5
NOV					MAY				
18...	1120	758	317	14.5	30...	1150	597	301	23.5
DEC					JUL				
21...	1110	980	328	8.0	10...	1130	293	293	28.0
JAN					AUG				
27...	1140	1300	336	6.0	21...	1335	299	322	29.5
MAR									
10...	0932	11500	238	8.5					
			03602219 - PINEY RIVER AT CEDAR HILL, TN						
OCT					APR				
06...	1020	15	290	16.0	24...	1145	93	262	17.5
NOV					MAY				
15...	0840	17	305	15.0	30...	1015	74	208	17.0
DEC					JUL				
13...	0930	98	181	13.0	10...	1025	22	274	21.5
JAN					AUG				
24...	1005	104	210	6.0	22...	0900	23	285	21.5
MAR									
14...	1130	98	181	14.0					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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

DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
			TENNESSEE RIVER BASIN--Continued						
			03605078 - CYPRESS CREEK AT CAMDEN, TN						
OCT					FEB				
06...	1115	3.5	154	16.5	01...	1340	19	--	6.0
NOV					MAR				
09...	1520	18	123	15.0	15...	1000	23	87	13.0
DEC					JUN				
23...	1100	26	129	7.5	08...	1400	15	107	24.0
			03607198 - CLIFTY CREEK AT CLIFTY CREEK ROAD NEAR PARIS, TN						
DEC									
23...	0945	61	310	7.5					
			03607225 - HOLLY FORK CREEK AT NOBLES, TN						
OCT					DEC				
06...	0830	12	52	14.0	22...	1620	25	78	8.0
NOV					FEB				
09...	1230	14	60	16.0	01...	1645	20	--	5.5
			03607232 - BEAVERDAM CREEK AT SULPHUR WELL ROAD NEAR NOBLES, TN						
OCT					DEC				
05...	1605	4.3	132	17.5	23...	0835	4.8	40	8.0
NOV					FEB				
09...	1000	4.8	50	15.0	01...	1530	5.4	--	5.5
			07024305 - BEAVER CREEK AT HWY 22 BYPASS NEAR HUNTINGDON, TN						
OCT					FEB				
05...	1245	36	59	17.0	02...	1645	73	--	5.5
NOV					MAR				
09...	0850	41	70	15.5	15...	1440	70	74	15.5
DEC					JUN				
21...	1705	63	85	8.0	07...	1100	55	79	21.0

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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

DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	DIS-CHARGE, INSTAN-TANEOUS (Ft^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
LOOSAHATCHIE RIVER BASIN									
07030240 - LOOSAHATCHIE RIVER NEAR ARLINGTON, TN									
OCT 04...	1145	106	53	18.5	FEB 10...	1100	116	61	9.0
NOV 08...	1145	102	52	15.5	APR 28...	1400	102	26	18.0
DEC 20...	1340	114	58	10.0	MAY 24...	1310	106	--	23.5
WOLF RIVER BASIN									
07031650 - WOLF RIVER AT GERMANTOWN, TN									
OCT 05...	1245	320	43	20.0	MAR 08...	1245	3780	46	10.0
NOV 08...	1600	376	46	17.5	MAY 23...	1325	482	21	24.0

GROUND-WATER LEVELS

COFFEE COUNTY

352247086031301. Local number, Cf:G-009, AEDC-175.

LOCATION.--Lat 35°22'47", long 86°03'13", Hydrologic Unit 06040002, 1,100 ft south-southwest of J-4 test cell at Arnold Air Force Base.
Owner: United States Air Force.

AQUIFER.--Limestones of Ordivician age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 320 open end screened 270 to 290 ft.

INSTRUMENTATION.--Data logger -- 60-minute logging interval.

DATUM.--Elevation of land-surface datum is 1080.31 ft above sea level. Measuring point: Top of instrument shelf, 1.85 ft above land surface datum.

REMARKS.--Missing record Aug. 26 to Sept. 13, 1994. Records good.

PERIOD OF RECORD.--July 1994 to July 1995 (discontinued).

EXTREMES FOR CURRENT PERIOD.--July 1994 to July 1995: Highest water level, 169.41 ft below land-surface datum, Oct. 22, 1994; lowest water level, 175.77 ft below land-surface datum, Mar. 13, 14, 15, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR JULY 1994 TO SEPTEMBER 1994
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	---	171.10	---
10	---	---	---	---	---	---	---	---	---	---	171.05	---
15	---	---	---	---	---	---	---	---	---	---	171.04	170.31
20	---	---	---	---	---	---	---	---	---	---	171.28	170.24
25	---	---	---	---	---	---	---	---	---	---	172.52	169.92
EOM	---	---	---	---	---	---	---	---	---	171.16	---	170.00

WTR YR 1994 HIGHEST 169.61 SEP 26, 1994 LOWEST 172.52 AUG 25, 1994

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO JULY 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	169.94	169.99	170.27	170.86	173.36	175.24	174.14	174.06	173.60	---	---	---
10	170.06	170.15	170.26	170.75	173.58	175.60	173.85	173.72	173.95	---	---	---
15	169.93	170.35	170.30	170.81	174.24	175.77	174.00	173.91	174.22	---	---	---
20	169.75	170.34	170.15	171.03	174.75	175.04	174.14	173.78	173.99	---	---	---
25	169.72	170.54	170.16	171.98	175.14	174.76	174.23	173.72	173.92	---	---	---
EOM	169.73	170.62	170.47	172.60	174.88	174.43	173.81	173.62	174.01	---	---	---

WTR YR 1995 HIGHEST 169.41 OCT 22, 1994 LOWEST 175.77 MAR 13, 14, 15, 1995

352258086031201. Local number, Cf:G-070, AEDC-268.

LOCATION.--Lat 35°22'58", long 86°03'12", Hydrologic Unit 06040002, 250 ft west-northwest of J-4 test cell at Arnold Air Force Base.
Owner: United States Air Force.

AQUIFER.--Limestones of Ordovician age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 289 ft, cased to 81 ft, open end, screened 260 to 280 ft.

INSTRUMENTATION.--Data logger -- 60-minute logging interval.

DATUM.--Elevation of land-surface datum is 1,080.59 ft above sea level. Measuring point: Top of instrument shelf, 3.04 ft above land surface datum.

REMARKS.--Missing record Sept. 13 to Oct. 14, 1994, Jan. 18 to Mar. 3, 1995. Records poor.

PERIOD OF RECORD.--August 1994 to July 1995 (discontinued).

EXTREMES FOR CURRENT PERIOD.--August 1994 to July 1995: Highest water level, 181.40 ft below land-surface datum, Aug. 11, 12, 1994; lowest water level, 200.41 ft below land-surface datum, May 6, 7, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR AUGUST 1994 TO SEPTEMBER 1994
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	---	---	182.70
10	---	---	---	---	---	---	---	---	---	---	---	183.06
15	---	---	---	---	---	---	---	---	---	---	181.50	---
20	---	---	---	---	---	---	---	---	---	---	181.67	---
25	---	---	---	---	---	---	---	---	---	---	182.22	---
EOM	---	---	---	---	---	---	---	---	---	---	182.34	---

WTR YR 1994 HIGHEST 181.40 AUG 11, 12, 1994 LOWEST 183.22 SEP 12, 1994

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO JULY 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	189.36	194.65	198.66	---	200.13	199.88	200.32	200.22	---	---	---
10	---	190.37	195.39	198.77	---	200.06	200.30	200.29	200.14	---	---	---
15	185.81	191.52	195.81	198.79	---	200.08	200.37	200.25	200.24	---	---	---
20	186.57	192.18	196.97	---	---	200.26	200.23	200.22	200.32	---	---	---
25	187.57	193.20	197.68	---	---	200.05	200.39	200.20	200.12	---	---	---
EOM	188.38	194.29	198.55	---	---	199.92	200.26	200.21	200.12	---	---	---

WTR YR 1995 HIGHEST 185.55 OCT 15, 1994 LOWEST 200.41 MAY 6, 7, 1995

352304086031401. Local number, Cf:G-075, AEDC-273.

LOCATION.--Lat 35°23'04", long 86°03'14", Hydrologic Unit 06040002, 1,000 ft northwest of J-4 test cell at Arnold Air Force Base.
Owner: United States Air Force.

AQUIFER.--Fort Payne Formation of early Mississippian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 93 ft, cased to 74 ft, open end, screened 83 to 93 ft.

INSTRUMENTATION.--Data logger -- 60-minute logging interval.

DATUM.--Elevation of land-surface datum is 1,083.67 ft above sea level. Measuring point: Top of instrument shelf, 3.00 ft above land surface datum.

REMARKS.--Missing record Aug. 10 to Aug. 22, Mar. 20 to May 21. Records fair.

PERIOD OF RECORD.--July 1994 to July 1995 (discontinued).

EXTREMES FOR CURRENT PERIOD.--July 1994 to July 1995: Highest water level, 51.66 ft below land-surface datum, Mar. 19, 1994; lowest water level, 55.82 ft below land-surface datum Nov. 17, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR JULY 1994 TO SEPTEMBER 1994
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	---	54.52	55.04
10	---	---	---	---	---	---	---	---	---	---	---	55.13
15	---	---	---	---	---	---	---	---	---	---	---	55.18
20	---	---	---	---	---	---	---	---	---	---	---	55.17
25	---	---	---	---	---	---	---	---	---	---	54.77	55.16
EOM	---	---	---	---	---	---	---	---	---	54.43	54.96	55.15

WTR YR 1994 HIGHEST 54.40 JUL 30, 1994 LOWEST 55.18 SEP 13, 14, 15, 1994

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO JULY 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	55.13	55.70	55.57	54.57	52.90	52.46	---	---	52.99	---	---	---
10	55.13	55.73	55.28	54.55	52.96	52.20	---	---	53.25	---	---	---
15	55.60	55.75	54.82	54.21	53.04	51.86	---	---	53.48	---	---	---
20	55.63	55.73	54.51	53.64	52.92	---	---	---	53.76	---	---	---
25	55.65	55.68	54.38	53.28	52.57	---	---	52.41	53.91	---	---	---
EOM	55.68	55.62	54.39	53.09	52.51	---	---	52.72	54.12	---	---	---

WTR YR 1995 HIGHEST 51.66 MAR 19, 1995 LOWEST 55.82 NOV 17, 1994

COFFEE COUNTY--Continued

352304086031402. Local number, Cf:G-076, AEDC-274.

LOCATION.--Lat 35°23'04", long 86°03'14", Hydrologic Unit 06040002, 1,000 ft west-northwest of J-4 test cell at Arnold Air Force Base.
Owner: United States Air Force.

AQUIFER.--Manchester aquifer.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 73 ft, open end, screened 60 to 70 ft.

INSTRUMENTATION.--Data logger -- 60-minute logging interval.

DATUM.--Elevation of land-surface datum is 1,083.25 ft above sea level. Measuring point: Top of instrument shelf, 1.72 ft above land surface datum.

REMARKS.--Missing record July 20-27, Aug. 22, Oct. 9-11, 24, 26-29, Nov. 1-2, 6-7, 18-19, 22-30, Dec. 1-2, 8, 10 to Jan. 12, Jan. 15 to Mar. 3.

PERIOD OF RECORD.--July 1994 to July 1995 (discontinued).

EXTREMES FOR CURRENT PERIOD.--July 1994 to July 1995: Highest water level, 27.78 ft below land-surface datum, Mar. 14, 1995: lowest water level, 32.92 ft below land-surface datum, Nov. 21, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR JULY 1994 TO SEPTEMBER 1994
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	30.29	31.27	31.80
10	---	---	---	---	---	---	---	---	---	30.44	30.95	31.97
15	---	---	---	---	---	---	---	---	---	30.94	31.14	32.13
20	---	---	---	---	---	---	---	---	---	---	31.40	32.33
25	---	---	---	---	---	---	---	---	29.99	---	31.55	32.38
EOM	---	---	---	---	---	---	---	---	30.14	31.17	31.70	32.48

WTR YR 1994 HIGHEST 29.57 JUN 19, 1994 LOWEST 32.48 SEP 30, 1994

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO JULY 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.66	32.69	32.13	---	---	---	29.48	29.08	30.36	---	---	---
10	---	32.69	---	---	---	---	29.72	29.16	30.68	---	---	---
15	32.35	32.78	---	---	---	27.90	30.01	29.09	30.91	---	---	---
20	32.35	32.86	---	---	---	28.38	30.15	29.42	31.00	---	---	---
25	32.41	---	---	---	---	29.14	28.78	29.85	31.20	---	---	---
EOM	32.52	---	---	---	---	29.22	28.80	30.19	31.46	---	---	---

WTR YR 1995 HIGHEST 27.78 MAR 14, 1995 LOWEST 32.92 NOV 21, 1994

GROUND-WATER LEVELS

COFFEE COUNTY--Continued

352304086031403. Local number, Cf:G-077, AEDC-275.

LOCATION.--Lat 35°23'04", long 86°03'14", Hydrologic Unit 06040002, 1,000 ft west-northwest of J-4 test cell at Arnold Air Force Base.
Owner: United States Air Force.

AQUIFER.--Clay, silt, sand, and gravel derived from weathering of carbonates of Mississippian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 34 ft, open end, screened 24 to 34 ft.

INSTRUMENTATION.--Data logger -- 60-minute logging interval.

DATUM.--Elevation of land-surface datum is 1,083.78 ft above sea level. Measuring point: Top of instrument shelf, 2.24 ft above land surface datum.

REMARKS.--Missing record July 20-27, Aug. 22, Feb. 23 to Mar. 3. Records fair.

PERIOD OF RECORD.--June 1994 to July 1995 (discontinued).

EXTREMES FOR CURRENT PERIOD.--June 1994 to July 1995: Highest water level, 12.49 ft below land-surface datum, Mar. 9, 1995; lowest water level, 23.54 ft below land-surface datum, Nov. 23, 24, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR JUNE 1994 TO SEPTEMBER 1994
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	20.42	21.73	22.16
10	---	---	---	---	---	---	---	---	---	20.67	21.07	22.41
15	---	---	---	---	---	---	---	---	---	20.74	21.42	22.54
20	---	---	---	---	---	---	---	---	19.85	---	21.71	22.76
25	---	---	---	---	---	---	---	---	20.19	---	21.85	22.79
EOM	---	---	---	---	---	---	---	---	19.94	21.59	22.09	22.77

WTR YR 1994 HIGHEST 19.60 JUN 28, 29, 1994 LOWEST 22.81 SEP 24, 1994

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO JULY 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.02	23.11	21.63	22.29	19.53	18.24	19.27	18.59	20.08	---	---	---
10	23.05	23.10	21.30	21.63	20.11	12.99	19.68	18.74	20.55	---	---	---
15	22.01	23.22	20.80	19.60	20.42	15.43	20.04	18.18	20.82	---	---	---
20	22.45	23.37	21.33	18.65	22.22	17.07	20.26	18.74	20.94	---	---	---
25	22.55	23.53	21.63	19.67	---	18.64	16.93	19.51	21.20	---	---	---
EOM	22.80	22.27	21.95	20.36	---	18.69	17.98	20.00	21.48	---	---	---

WTR YR 1995 HIGHEST 12.49 MAR 9, 1995 LOWEST 23.54 NOV 23, 24, 1994

352301086025501. Local number, Cf:G-078, AEDC-276.

LOCATION.--Lat 35°23'01", long 86°02'55", Hydrologic Unit 06040002, 1,000 ft northeast of J-4 test cell at Arnold Air Force Base.
Owner: United States Air Force.

AQUIFER.--Manchester aquifer.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 78 ft, open end, screened 67 to 77 ft.

INSTRUMENTATION.--Data logger -- 60-minute logging interval.

DATUM.--Elevation of land-surface datum is 1,089.38 ft above sea level. Measuring point: Top of instrument shelf, 2.33 ft above land surface datum.

REMARKS.--Missing record June 30 - July 28, 1994. Records good.

PERIOD OF RECORD.--June 1994 to July 1995 (discontinued).

EXTREMES FOR CURRENT PERIOD.--June 1994 to July 1995: Highest water level, 11.03 ft below land-surface datum, Mar. 13, 14, 15, 16, 1995; lowest water level, 15.85 ft below land-surface datum, Nov. 24, 25, 26, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR JUNE 1994 TO SEPTEMBER 1994
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	---	14.67	15.26
10	---	---	---	---	---	---	---	---	---	---	14.50	15.49
15	---	---	---	---	---	---	---	---	---	---	14.67	15.66
20	---	---	---	---	---	---	---	---	13.17	---	14.93	15.83
25	---	---	---	---	---	---	---	---	13.48	---	14.98	15.75
EOM	---	---	---	---	---	---	---	---	---	14.51	15.22	15.57

WTR YR 1994 HIGHEST 13.11 JUN 20, 1994 LOWEST 15.84 SEP 21, 22, 23, 1994

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO JULY 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.73	15.61	14.94	14.46	12.34	11.91	13.48	12.17	12.99	13.85	---	---
10	15.81	15.46	14.19	14.09	12.64	11.16	12.69	12.23	13.33	---	---	---
15	15.37	15.47	13.71	13.23	12.65	11.03	12.52	12.05	13.53	---	---	---
20	15.15	15.62	13.75	12.51	11.99	11.18	12.57	12.23	13.71	---	---	---
25	15.15	15.85	13.89	12.56	11.84	13.24	12.05	12.56	13.75	---	---	---
EOM	15.31	15.46	14.16	12.40	11.90	13.26	12.05	12.91	14.09	---	---	---

WTR YR 1995 HIGHEST 11.03 MAR 13, 14, 15, 16, 1995 LOWEST 15.85 NOV 23, 24, 25, 26, 1994

GROUND-WATER LEVELS

COFFEE COUNTY--Continued

352258086030001. Local number, Cf:G-079, AEDC-277.

LOCATION.--Lat 35°22'58", long 86°03'00", Hydrologic Unit 06040002, 600 ft northeast of J-4 test cell at Arnold Air Force Base.
Owner: United States Air Force.

AQUIFER.--Limestones of Ordovician age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 289 ft, cased to 96 ft, open end, screened 260 to 280 ft.

INSTRUMENTATION.--Data logger -- 60-minute logging interval.

DATUM.--Elevation of land-surface datum is 1,088.72 ft above sea level. Measuring point: Top of instrument shelf, 2.20 ft above land surface datum.

REMARKS.--Missing record Jan. 28 to Mar. 3, 28. Records fair.

PERIOD OF RECORD.--September 1994 to July 1995 (discontinued).

EXTREMES FOR CURRENT PERIOD.--September 1994 to July 1995: Highest water level, 142.49 ft below land-surface datum, Sept. 23, 1994; lowest water level, 146.29 ft below land-surface datum, June 17, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR SEPTEMBER 1994
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	142.59
EOM	---	---	---	---	---	---	---	---	---	---	---	142.67

WTR YR 1994 HIGHEST 142.49 SEP 23, 1994 LOWEST 142.75 SEP 21, 1994

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO JULY 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	142.85	143.35	144.00	144.44	---	145.41	145.61	145.83	145.77	146.13	---	---
10	143.03	143.40	144.08	144.53	---	145.39	145.42	145.48	145.95	---	---	---
15	143.14	143.45	144.03	144.56	---	145.38	145.59	145.73	146.13	---	---	---
20	143.19	143.57	144.13	144.56	---	145.41	145.47	145.73	145.87	---	---	---
25	143.24	143.72	144.22	144.56	---	145.46	145.71	145.88	145.80	---	---	---
EOM	143.30	143.87	144.34	---	---	145.53	145.53	145.85	145.93	---	---	---

WTR YR 1995 HIGHEST 142.67 OCT 1, 1994 LOWEST 146.29 JUN 17, 1995

352258086030002. Local number, Cf:G-080, AEDC-278.

LOCATION.--Lat 35°22'58", long 86°03'00", Hydrologic Unit 06040002, 600 ft northeast of J-4 test cell at Arnold Air Force Base.
Owner: United States Air Force.

AQUIFER.--Manchester aquifer.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 94 ft, cased to 82 ft, open end, screened 84 to 94 ft.

INSTRUMENTATION.--Data logger -- 60-minute logging interval.

DATUM.--Elevation of land-surface datum is 1,088.30 ft above sea level. Measuring point: Top of instrument shelf, 1.55 ft above land surface datum.

REMARKS.--Missing record July 11-28. Records good.

PERIOD OF RECORD.--July 1994 to July 1995 (discontinued).

EXTREMES FOR CURRENT PERIOD.--July 1994 to July 1995: Highest water level, 27.90 ft below land-surface datum, Mar. 15, 16, 17, 1995; 32.94 ft below land-surface datum, Nov. 23, 24, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR JULY 1994 TO SEPTEMBER 1994
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	30.28	31.49	32.09
10	---	---	---	---	---	---	---	---	---	30.53	31.44	32.25
15	---	---	---	---	---	---	---	---	---	---	31.47	32.42
20	---	---	---	---	---	---	---	---	---	---	31.67	32.56
25	---	---	---	---	---	---	---	---	---	---	31.87	32.54
EOM	---	---	---	---	---	---	---	---	---	31.42	31.98	32.64

WTR YR 1994 HIGHEST 29.99 JUL 1, 1994 LOWEST 32.64 SEP 29, 30 1994

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO JULY 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.73	32.72	32.14	31.70	29.74	29.01	28.67	28.71	29.79	30.96	---	---
10	32.79	32.66	31.56	31.36	29.91	28.31	28.87	28.67	30.16	---	---	---
15	32.67	32.67	31.12	30.50	29.95	27.91	29.17	28.67	30.44	---	---	---
20	32.53	32.74	31.13	29.89	29.30	27.98	29.28	28.87	30.60	---	---	---
25	32.54	32.89	31.21	30.04	29.22	28.46	28.64	29.15	30.68	---	---	---
EOM	32.58	32.61	31.41	29.82	29.15	28.51	28.48	29.57	30.98	---	---	---

WTR YR 1995 HIGHEST 27.90 MAR 15, 16, 17, 1995 LOWEST 32.94 NOV 23, 24, 1994

GROUND-WATER LEVELS

COFFEE COUNTY--Continued

352258086030003. Local number, Cf:G-081, AEDC-279.

LOCATION.--Lat 35°22'58", long 86°03'00", Hydrologic Unit 06040002, 600 ft northeasth of J-4 test cell at Arnold Air Force Base.
Owner: United States Air Force.

AQUIFER.--Manchester aquifer.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 81 ft, open end, screened 69 to 79 ft.

INSTRUMENTATION.--Data logger -- 60-minute logging interval.

DATUM.--Elevation of land-surface datum is 1,088.71 ft above sea level. Measuring point: Top of instrument shelf, 2.23 ft above land surface datum.

REMARKS.--Missing record July 13-14, 18-27, 1994, Aug. 22, 1994, Mar. 27-29, 1995, May 26 to July 6, 1995.

PERIOD OF RECORD.--June 1994 to July 1995 (discontinued).

EXTREMES FOR CURRENT PERIOD.--June 1994 to July 1995: Highest water level, 32.01 ft below land-surface datum, Mar. 15, 16, 17, 1995; lowest water level, 36.20 ft below land-surface datum, Nov. 23, 24, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR JUNE 1994 TO SEPTEMBER 1994
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	34.10	34.79	35.28
10	---	---	---	---	---	---	---	---	---	34.14	34.75	35.42
15	---	---	---	---	---	---	---	---	---	34.26	34.76	35.60
20	---	---	---	---	---	---	---	---	33.66	---	34.92	35.68
25	---	---	---	---	---	---	---	---	33.75	---	35.11	35.66
EOM	---	---	---	---	---	---	---	---	33.92	34.75	35.20	35.82

WTR YR 1994 HIGHEST 33.50 JUN 17, 1994 LOWEST 35.82 SEP 29, 30, 1994

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO JULY 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	35.86	35.95	35.50	34.51	33.57	33.04	32.43	32.79	---	---	---	---
10	35.90	35.93	35.83	34.57	33.74	32.44	32.88	32.71	---	---	---	---
15	35.80	35.97	35.84	34.18	33.77	32.07	33.14	32.71	---	---	---	---
20	35.72	36.03	35.65	33.68	33.24	32.08	33.25	32.75	---	---	---	---
25	35.74	36.16	35.44	33.83	32.89	32.52	32.74	---	---	---	---	---
EOM	35.80	35.92	34.97	33.65	33.02	32.72	32.60	---	---	---	---	---

WTR YR 1995 HIGHEST 32.01 MAR 15, 16, 17 1995 LOWEST 36.20 NOV 23, 24, 1994

352258086030004. Local number, Cf:G-082, AEDC-280.

LOCATION.--Lat 35°22'58", long 86°03'00", Hydrologic Unit 06040002, 600 ft northeast of J-4 test cell at Arnold Air Force Base.
Owner: United States Air Force.

AQUIFER.--Clay, silt, sand, and gravel derived from weathering of carbonates of Mississippian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 42 ft, open end, screened 32 to 42 ft.

INSTRUMENTATION.--Data logger -- 60-minute logging interval.

DATUM.--Elevation of land-surface datum is 1,088.85 ft above sea level. Measuring point: Top of instrument shelf, 2.65 ft above land surface datum.

REMARKS.--Missing record July 19-27, 1994. Records good.

PERIOD OF RECORD.--June 1994 to July 1995 (discontinued).

EXTREMES FOR CURRENT PERIOD.--June 1994 to July 1995: Highest water level, 20.99 ft below land-surface datum, Mar. 15, 16, 1995; lowest water level 25.19 ft below land-surface datum, Nov. 7, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR JUNE 1994 TO SEPTEMBER 1994
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	23.01	23.74	24.46
10	---	---	---	---	---	---	---	---	---	23.20	23.79	24.60
15	---	---	---	---	---	---	---	---	---	23.23	23.76	24.74
20	---	---	---	---	---	---	---	---	22.43	---	23.99	24.89
25	---	---	---	---	---	---	---	---	22.64	---	24.27	24.83
EOM	---	---	---	---	---	---	---	---	22.81	23.69	24.29	25.00

WTR YR 1994 HIGHEST 23.35 JUN 17, 18, 19, 1994 LOWEST 25.00 SEP 30, 1994

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO JULY 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.08	25.05	24.46	23.67	22.42	21.86	21.84	22.27	22.82	23.58	---	---
10	25.12	25.02	24.05	23.46	22.37	21.62	21.98	22.11	23.07	---	---	---
15	25.09	24.97	23.73	22.91	22.34	21.07	22.25	22.18	23.25	---	---	---
20	24.95	24.95	23.53	22.56	22.03	21.07	22.32	22.30	23.21	---	---	---
25	25.00	24.93	23.40	22.75	22.06	21.64	22.23	22.51	23.27	---	---	---
EOM	24.94	24.95	23.42	22.43	21.87	21.71	22.03	22.70	23.54	---	---	---

WTR YR 1995 HIGHEST 20.99 MAR 15, 16, 1995 LOWEST 25.19 NOV 7, 1994

GROUND-WATER LEVELS

COFFEE COUNTY--Continued

352313086030801. Local number, Cf:G-087, AEDC-285.

LOCATION.--Lat 35°23'13", long 86°03'08", Hydrologic Unit 06040002, 600 ft north of J-4 test cell at Arnold Air Force Base.
Owner: United States Air Force.

AQUIFER.--Manchester aquifer.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 103 ft, cased to 81 ft, open end, screened 88 to 98 ft.

INSTRUMENTATION.--Data logger -- 60-minute logging interval.

DATUM.--Elevation of land-surface datum is 1,082.96 ft above sea level. Measuring point: Top of instrument shelf, 3.11 ft above land surface datum.

REMARKS.--Missing record July 11-29, 1994, Sept. 13, Oct. 13, Dec. 5, 1994. Records good.

PERIOD OF RECORD.--July 1994 to July 1995 (discontinued).

EXTREMES FOR CURRENT PERIOD.--July 1994 to July 1995: Highest water level, 19.94 ft below land-surface datum, May 1, 1995; lowest water level, 28.84 ft below land-surface datum, Nov. 23, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR JULY 1994 TO SEPTEMBER 1994
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	24.93	26.35	27.43
10	---	---	---	---	---	---	---	---	---	25.34	26.34	27.51
15	---	---	---	---	---	---	---	---	---	---	26.50	27.61
20	---	---	---	---	---	---	---	---	---	---	26.80	27.72
25	---	---	---	---	---	---	---	---	---	---	27.16	27.82
EOM	---	---	---	---	---	---	---	---	---	26.18	27.35	27.93

WTR YR 1994 HIGHEST 24.47 JUL 1, 1994 LOWEST 27.93 SEP 30, 1994

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO JULY 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	28.03	28.52	---	26.70	23.21	21.74	20.68	20.38	22.69	---	---	---
10	28.14	28.56	26.70	26.05	23.42	20.56	20.98	20.43	23.37	---	---	---
15	28.16	28.63	25.93	24.72	23.44	19.99	21.39	20.42	23.92	---	---	---
20	28.13	28.63	25.96	23.66	22.35	20.07	21.52	20.80	24.14	---	---	---
25	28.24	28.78	26.08	23.80	22.12	20.68	20.26	21.45	24.48	---	---	---
EOM	28.33	28.32	26.35	23.38	22.05	20.55	20.01	22.21	24.90	---	---	---

WTR YR 1995 HIGHEST 19.94 MAY 1, 1995 LOWEST 28.84 NOV 23, 1994

352313086030802. Local number, Cf:G-088, AEDC-286.

LOCATION.--Lat 35°23'13", long 86°03'08", Hydrologic Unit 06040002, 2,000 ft north of J-4 test cell at Arnold Air Force Base.
Owner: United States Air Force.

AQUIFER.--Manchester aquifer.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 80 ft, open end, screened 69 to 79 ft.

INSTRUMENTATION.--Data logger -- 60-minute logging interval.

DATUM.--Elevation of land-surface datum is 1,086.55 ft above sea level. Measuring point: Top of instrument shelf, 1.93 ft above land surface datum.

REMARKS.--Missing record July 20-27, Records good.

PERIOD OF RECORD.--July 1994 to July 1995 (discontinued).

EXTREMES FOR CURRENT PERIOD.--July 1994 to July 1995: Highest water level, 19.19 ft below land-surface datum, May 1, 1995; lowest water level, 27.93 ft below land-surface datum, Nov. 24, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR JULY 1994 TO SEPTEMBER 1994
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	24.11	25.63	26.40
10	---	---	---	---	---	---	---	---	---	24.55	25.60	26.59
15	---	---	---	---	---	---	---	---	---	24.77	25.60	26.77
20	---	---	---	---	---	---	---	---	---	---	25.80	27.02
25	---	---	---	---	---	---	---	---	---	---	26.08	27.10
EOM	---	---	---	---	---	---	---	---	---	25.49	26.23	27.15

WTR YR 1994 HIGHEST 23.71 JUL 1, 1994 LOWEST 27.15 SEP 30, 1994

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO JULY 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	27.21	27.59	26.84	25.82	22.46	21.07	19.94	19.58	21.86	---	---	---
10	27.27	27.59	25.87	25.26	22.68	19.98	20.20	19.61	22.56	---	---	---
15	27.31	27.64	25.15	23.95	22.70	19.40	20.59	19.58	23.05	---	---	---
20	27.22	27.74	25.15	22.93	21.68	19.42	20.71	19.94	23.31	---	---	---
25	27.33	27.90	25.26	23.04	21.43	19.97	19.57	20.67	23.62	---	---	---
EOM	27.41	27.47	25.51	22.67	21.36	19.87	19.27	21.41	24.04	---	---	---

WTR YR 1995 HIGHEST 19.19 MAY 1, 1995 LOWEST 27.93 NOV 24, 1994

GROUND-WATER LEVELS

COFFEE COUNTY--Continued

352249086030902. Local number, Cf:G-097, AEDC-154.

LOCATION.--Lat 35°22'49", long 86°03'09", Hydrologic Unit 06040002, 150 ft south-southwest of J-4 test cell at Arnold Air Force Base.
Owner: United States Air Force.

AQUIFER.--Manchester aquifer.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 68 ft, open end, screened 57 to 67 ft.

INSTRUMENTATION.--Data logger -- 60-minute logging interval.

DATUM.--Elevation of land-surface datum is 1,089.03 ft above sea level. Measuring point: Top of instrument shelf, 1.97 ft above land surface datum.

REMARKS.--Missing record July 27-29, 1994, Jan. 27 to Mar. 3, 1995, Apr. 9-12, 1995, Apr. 20 to July 5, 1995. Records poor.

PERIOD OF RECORD.--July 1994 to July 1995 (discontinued).

EXTREMES FOR CURRENT PERIOD.--July 1994 to July 1995: Highest water level, 47.73 ft below land-surface datum, Mar. 20, 21, 1995; lowest water level, 49.44 ft below land-surface datum, Nov. 23, 24, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR JULY 1994 TO SEPTEMBER 1994
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	48.26	48.67	48.94
10	---	---	---	---	---	---	---	---	---	48.37	48.66	49.02
15	---	---	---	---	---	---	---	---	---	48.35	48.66	49.08
20	---	---	---	---	---	---	---	---	---	48.38	48.74	49.14
25	---	---	---	---	---	---	---	---	---	48.44	48.86	49.14
EOM	---	---	---	---	---	---	---	---	---	48.65	48.88	49.17

WTR YR 1994 HIGHEST 48.18 JUL 2, 3, 1994 LOWEST 49.17 SEP 30, 1994

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO JULY 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.25	49.24	49.20	49.13	---	48.31	48.10	---	---	---	---	---
10	49.26	49.23	49.07	49.07	---	48.06	---	---	---	---	---	---
15	49.24	49.27	48.97	48.74	---	47.81	48.27	---	---	---	---	---
20	49.17	49.32	48.93	48.62	---	47.77	---	---	---	---	---	---
25	49.14	49.37	48.92	48.71	---	47.95	---	---	---	---	---	---
EOM	49.17	49.35	49.00	---	---	47.97	---	---	---	---	---	---

WTR YR 1995 HIGHEST 47.73 MAR 20, 21, 1995 LOWEST 49.44 NOV 23, 24, 1995

352249086030903. Local number, Cf:G-098, AEDC-155.

LOCATION.--Lat 35°22'49", long 86°03'09", Hydrologic Unit 06040002, 150 ft south-southwest of J-4 test cell at Arnold Air Force Base.
Owner: United States Air Force.

AQUIFER.--Fort Payne Formation of early Mississipian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 91 ft, open end, screened 80 to 90 ft.

INSTRUMENTATION.--Data logger -- 60-minute logging interval.

DATUM.--Elevation of land-surface datum is 1,087.94 ft above sea level. Measuring point: Top of instrument shelf, 2.10 ft above land surface datum.

REMARKS.--Missing record July 8-16, 28-30, 1994. Records good.

PERIOD OF RECORD.--July 1994 to July 1995 (discontinued).

EXTREMES FOR CURRENT PERIOD.--July 1994 to July 1995: Highest water level, 28.54 ft below land-surface datum, Mar. 11, 1995; lowest water level, 30.94 ft below land-surface datum, Nov. 16, 17, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR JULY 1994 TO SEPTEMBER 1994
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	29.37	29.01	29.92
10	---	---	---	---	---	---	---	---	---	---	29.02	30.06
15	---	---	---	---	---	---	---	---	---	---	29.15	30.14
20	---	---	---	---	---	---	---	---	---	29.65	29.28	30.13
25	---	---	---	---	---	---	---	---	---	29.73	29.40	30.14
EOM	---	---	---	---	---	---	---	---	---	29.01	29.80	30.14

WTR YR 1994 HIGHEST 29.01 JUL 31-AUG 10, 1994 LOWEST 30.14 SEP 14-19, 22-30, 1994

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO JULY 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.14	30.80	30.40	30.89	29.93	29.66	29.71	29.99	30.31	---	---	---
10	30.31	30.80	30.23	30.65	30.03	28.67	29.92	29.98	30.41	---	---	---
15	30.49	30.87	30.04	29.98	30.11	28.69	30.12	29.91	30.41	---	---	---
20	30.50	30.80	30.23	29.69	29.42	28.98	30.25	29.99	30.52	---	---	---
25	30.50	30.84	30.39	30.01	29.69	29.46	29.66	30.10	30.50	---	---	---
EOM	30.51	30.32	30.64	29.69	29.69	29.45	29.87	30.34	30.63	---	---	---

WTR YR 1995 HIGHEST 28.54 MAR 11, 1995 LOWEST 30.94 NOV 16, 17, 1994

GROUND-WATER LEVELS

DAVIDSON COUNTY

360835086441100. Local number, Dv:L-10.

LOCATION.--Lat 36°08'35", long 86°44'11", Hydrologic Unit 05130202, 220 ft south of Elm Hill Pike, 0.3 mi west of Louisville and Nashville Railroad crossing, 0.4 mi east of Fesslers Lane in Nashville.
Owner: U.S. Geological Survey.

AQUIFER.--Carters and Lebanon Limestones of middle Ordovician age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., depth 262 ft, cased to 40 ft, open end.

INSTRUMENTATION.--Data logger -- 60-minute logging interval.

DATUM.--Elevation of land-surface datum is 515 ft above sea level, from topographic map. Measuring point: Top of casing 2.5 ft above land-surface datum.

REMARKS.--Missing record Mar. 11-27, May 14-18. Records good.

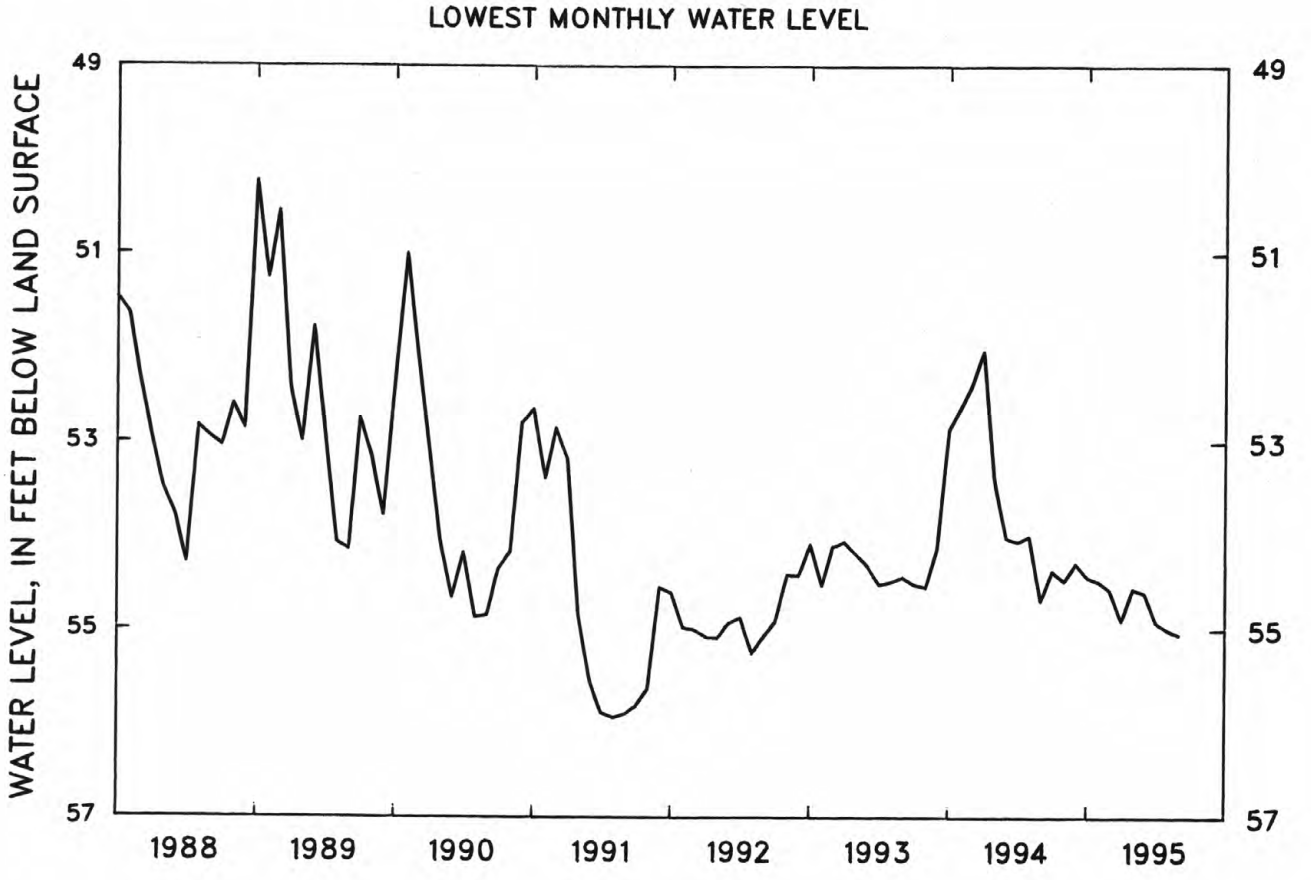
PERIOD OF RECORD.--June 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 36.52 ft below land-surface datum, Feb. 21, 1989; lowest water level 55.94 ft below land-surface datum, Aug. 5, 6, 7, 8, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	54.19	54.28	47.86	54.44	54.13	54.58	54.63	54.11	53.73	53.17	54.95	55.03
10	52.28	53.03	52.00	52.88	54.32	45.76	54.88	51.42	54.21	54.29	52.83	55.04
15	50.95	54.14	52.08	47.73	53.02	---	54.71	---	54.14	54.59	54.48	54.53
20	53.78	54.38	53.23	48.21	53.14	---	54.58	46.62	54.30	54.85	54.58	54.52
25	53.90	54.48	53.95	52.63	54.29	---	53.74	52.40	54.41	54.50	54.83	54.80
EOM	54.16	49.07	54.29	53.28	54.36	54.39	54.38	53.22	54.57	54.77	55.00	54.86

WTR YR 1995 HIGHEST 41.91 MAR 9, 1995 LOWEST 55.05 SEP 12, 1995



GROUND-WATER LEVELS

HAMILTON COUNTY

350234085181200. Local number, Hm:G-36.

LOCATION.--Lat 35°02'34", long 85°18'12", Hydrologic Unit 06020001, in Tennessee Valley Authority parking lot, Douglas Street in Chattanooga.
Owner: Tennessee Valley Authority.

AQUIFER.--Knox Dolomite of Cambrian and Ordovician age.

WELL CHARACTERISTICS.--Drilled artesian test well, diameter 16 in. to 120 ft, 6 in. to 250 ft, cased to 27 ft, open end.

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 670.3 ft above sea level. Measuring point: Top of instrument shelf, 1.5 ft above land-surface datum.

REMARKS.--Missing record Feb. 2-16, Mar. 22-29. Records fair. The well has been pumped at rates up to 1,200 gal/min over a 68 hour period indicating a specific capacity of 20.4 [(gal/min)/ft].

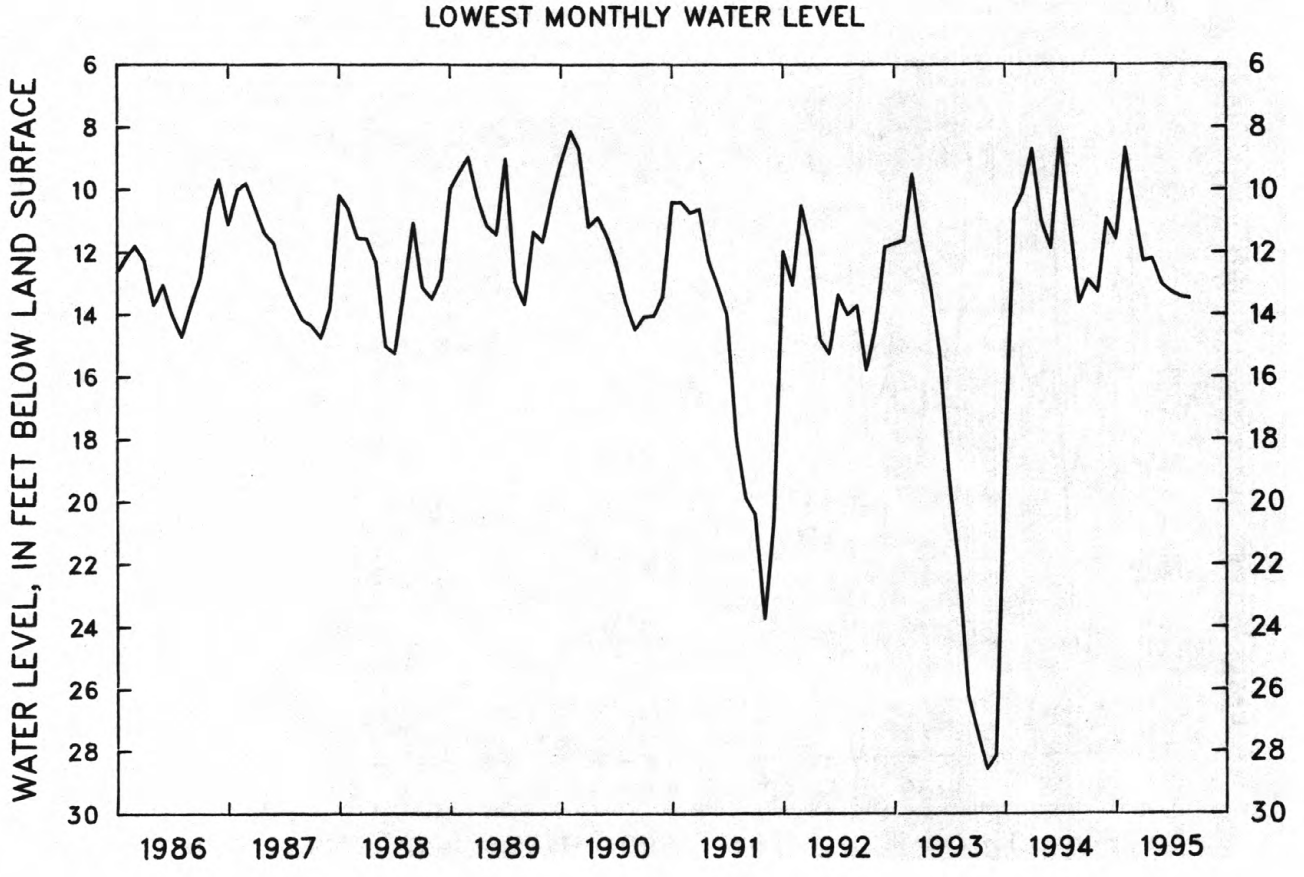
PERIOD OF RECORD.--April 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.89 ft below land-surface datum, Mar. 28, 1994; lowest recorded, 28.59 ft below land-surface datum, Nov. 13, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.50	11.33	7.70	11.43	---	8.13	11.02	12.12	12.26	12.00	12.42	12.14
10	11.86	11.71	7.45	11.26	---	5.39	11.44	12.04	12.77	11.98	12.21	12.44
15	7.87	12.00	8.03	7.36	---	7.41	11.96	10.91	12.09	12.60	12.23	12.00
20	8.97	12.44	8.99	7.38	6.44	8.66	12.28	11.06	12.16	13.02	12.71	11.85
25	9.23	13.28	9.70	8.56	8.31	---	11.68	11.63	12.50	13.13	13.44	9.86
EOM	10.47	10.14	10.90	8.49	8.35	10.49	11.90	11.89	13.03	11.95	13.41	10.83

WTR YR 1995 HIGHEST 5.36 FEB 17, 1995 LOWEST 13.49 SEP 1, 1995



GROUND-WATER LEVELS

HAMILTON COUNTY--Continued

351428085003600. Local number, Hm:O-15.

LOCATION.--Lat 35°14'28", long 85°00'36", Hydrologic Unit 06020001, at Smith Road and State Highway 58, near Snow Hill.
Owner: Savannah Valley Utility District.

AQUIFER.--Knox Dolomite of Cambrian and Ordovician age.

WELL CHARACTERISTICS.--Drilled artesian test well, diameter 10 in., depth 262 ft, cased to 50 ft, open end.

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 735 ft above sea level, from topographic map. Measuring point: Instrument shelf, 5.66 ft above land-surface datum.

REMARKS.--Records good. Well previously published as "at Savannah Valley". Water level affected by pumping from municipal supply well 300 ft south. Negative values indicate water levels above land-surface.

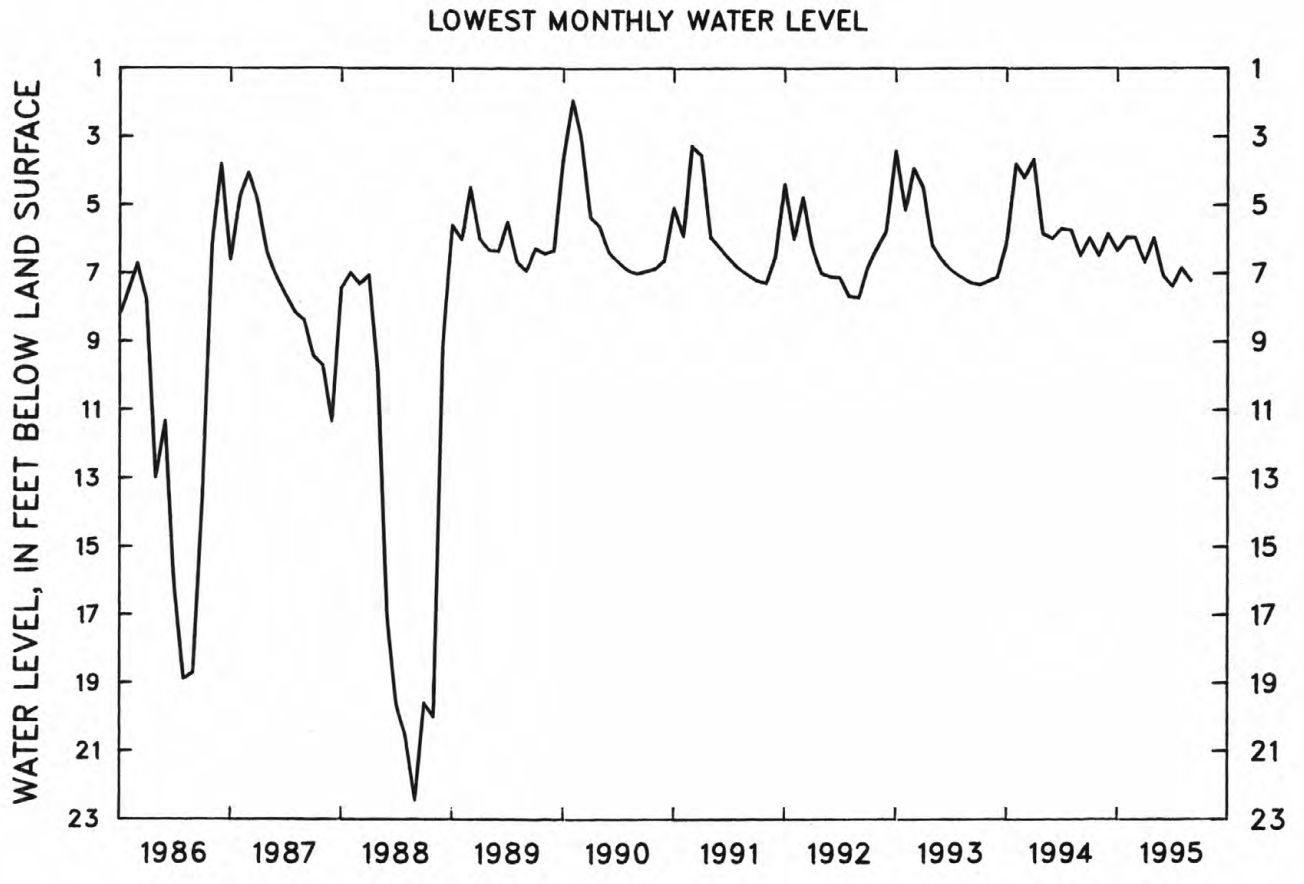
PERIOD OF RECORD.--May 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.33 ft above land-surface datum, Feb. 11, 1994; lowest, 22.45 ft below land-surface datum, Sept. 3, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.76	6.13	2.35	6.21	4.23	3.50	6.17	5.59	5.03	6.44	5.79	5.63
10	5.06	6.49	.81	5.02	5.33	-.60	6.58	5.72	5.12	6.91	4.48	6.71
15	3.47	6.37	1.13	-.33	5.94	1.20	6.41	5.41	5.04	6.79	6.00	7.13
20	4.32	5.84	2.79	.50	.51	3.51	6.63	4.76	5.71	6.91	5.72	6.99
25	4.63	5.81	3.97	2.30	2.60	5.24	6.20	5.19	5.25	6.22	5.52	6.60
EOM	4.75	2.39	5.84	3.18	3.44	5.95	5.87	5.03	7.01	6.09	6.32	7.04

WTR YR 1995 HIGHEST -2.53 MAR 8, 1995 LOWEST 7.39 JULY 13, 1995



GROUND-WATER LEVELS

HUMPHREYS COUNTY

360020087573300. Local number, Hs:H-1.

LOCATION.--Lat 36°00'20", long 87°57'33", Hydrologic Unit 06040005, 100 ft north of Woodland Drive, at New Johnsonville.
Owner: A.M. Powers.

AQUIFER.--Camden Chert of early Devonian age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 187 ft, cased to 72 ft, open end.

INSTRUMENTATION.--Data logger -- 60-minute logging interval.

DATUM.--Elevation of land-surface datum is 470 ft above sea level, from topographic map. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Missing record Nov. 15 to Dec. 13. Records good.

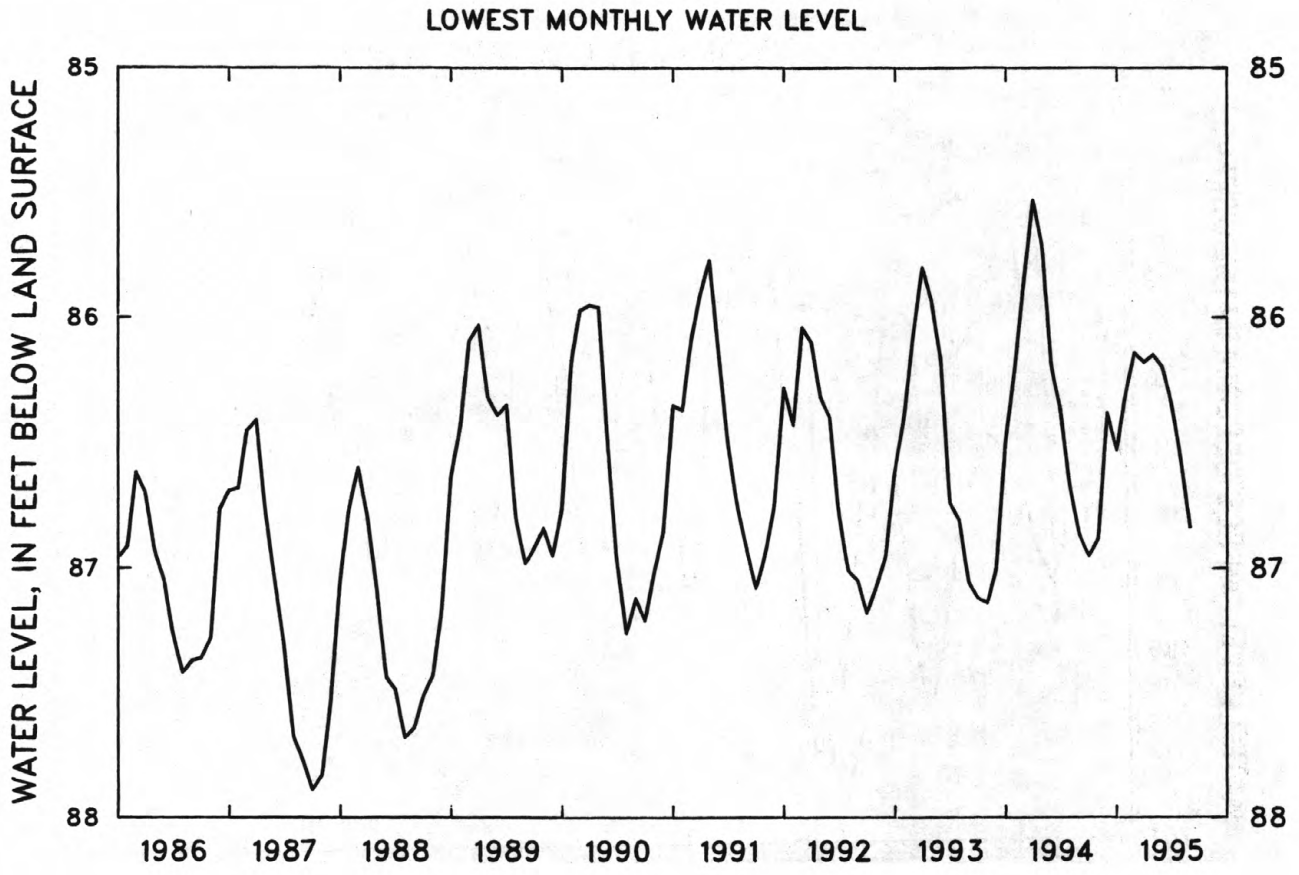
PERIOD OF RECORD.--February 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 84.09 below land-surface datum, Apr. 21, 22, 23, 1994; lowest, 90.20 ft below land-surface datum, Nov. 25, 1968.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	86.94	86.84	---	86.53	86.15	86.04	86.03	86.01	86.01	86.06	86.33	86.73
10	86.86	86.66	---	86.23	86.12	85.82	86.08	85.91	86.17	86.09	86.14	86.75
15	86.69	---	86.35	86.04	86.12	85.86	86.16	86.06	86.13	86.21	86.26	86.80
20	86.71	---	86.28	85.87	85.93	85.87	86.12	86.00	86.09	86.29	86.35	86.76
25	86.80	---	86.32	86.06	86.07	86.07	85.98	86.13	86.03	86.29	86.46	86.81
EOM	86.79	---	86.38	86.06	86.08	85.96	85.99	85.98	86.13	86.33	86.56	86.83

WTR YR 1995 HIGHEST 85.78 MAR 11, 12, 1995 LOWEST 86.95 OCT 4, 7, 8, 1994



GROUND-WATER LEVELS

LAUDERDALE COUNTY

353839089493500. Local number, Ld:F-4.

LOCATION.--Lat 35°38'39", long 89°49'35", Hydrologic Unit 08010208, 1.1 mi north of State Highway 87 off Crutcher Lake Rd, at Fort Pillow State Park.
Owner: Tennessee Division of Geology and U.S. Geological Survey.

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 to 6 to 3 in., depth 879 ft, cased to 869 ft, screened 869 to 879 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 437.05 ft above sea level. Measuring point: Top of casing, 2.80 ft above land-surface datum.

REMARKS.--Records good.

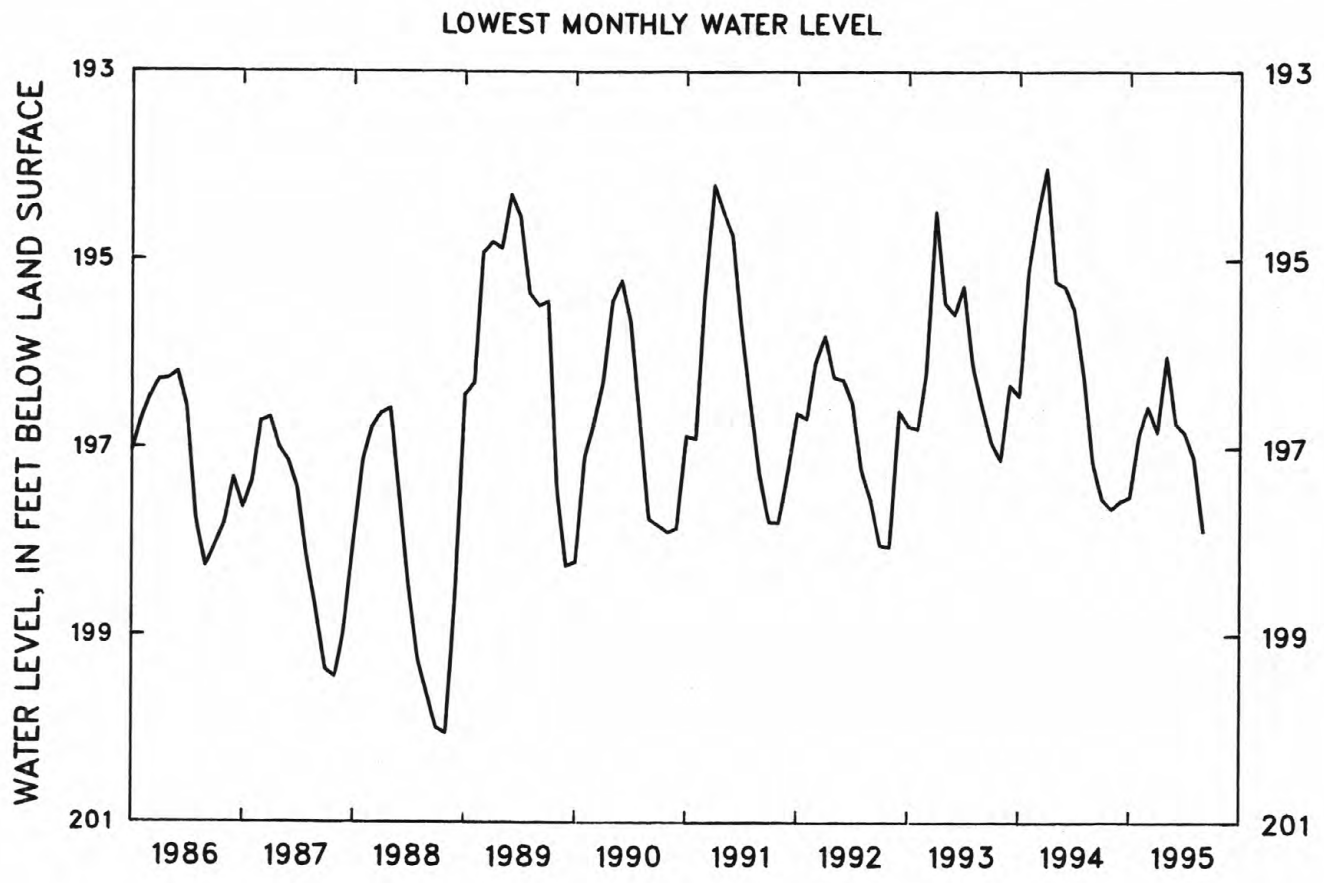
PERIOD OF RECORD.--April 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 187.76 ft below land-surface datum, Apr. 7, 1975; lowest, 200.05 ft below land-surface datum, Nov. 11, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	197.19	197.58	197.31	197.52	196.48	196.49	196.66	196.01	191.25	196.55	196.77	197.32
10	197.25	197.54	197.15	197.42	196.56	196.56	196.67	195.75	193.42	196.43	196.64	197.48
15	197.31	197.50	196.93	197.15	196.69	195.60	196.79	195.73	195.72	196.55	196.40	197.62
20	197.37	197.48	196.82	196.53	196.77	195.46	196.52	194.96	196.30	196.66	196.62	197.68
25	197.45	197.64	196.93	195.99	196.37	196.23	196.27	193.05	196.67	196.65	196.87	197.80
EOM	197.53	197.54	197.23	196.30	196.30	196.51	196.01	190.57	196.72	196.84	197.11	197.89

WTR YR 1995 HIGHEST 190.52 JUN 1, 1995 LOWEST 197.89 SEP 30, 1995



GROUND-WATER LEVELS

MADISON COUNTY

354223088380200. Local number, Md:N-1.

LOCATION.--Lat 35°42'23", long 88°38'02", Hydrologic Unit 08010205, about 0.4 mi east of Claybrook. Owner: Tennessee Division of Geology and U.S. Geological Survey.

AQUIFER.--McNairy Sand of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 to 4 in., depth 659 ft, cased to 639 ft, screened 639 to 659 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 562.70 ft above sea level. Measuring point: Top of casing, 2.80 ft above land-surface datum.

REMARKS.--Records good.

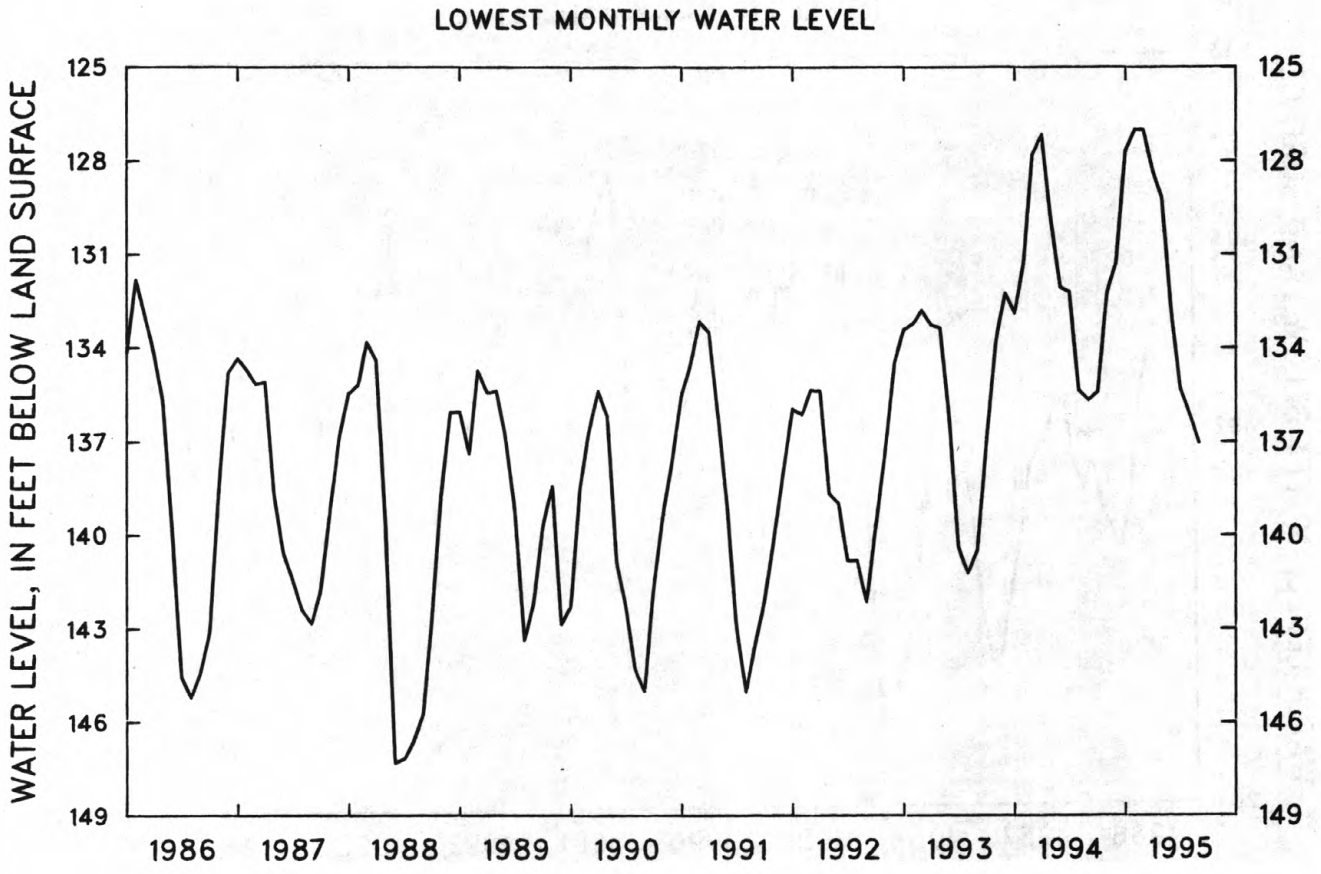
PERIOD OF RECORD.--June 1949 to current year. Analog record June 1949 to February 1971, periodic tape measurements or monthly maximum-minimum recorder March 1971 to April 1986.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 124.50 ft below land-surface datum, Mar. 10, 1952; lowest recorded, 129.13 ft below land-surface datum, Nov. 15, 1963; highest water level measured, 124.98 ft below land-surface datum, Apr. 8, 1980; lowest measured, 131.17 ft below land-surface datum, June 20, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	126.57	126.49	126.49	126.23	126.15	126.14	126.12	126.15	126.14	126.11	126.22	126.51
10	126.59	126.46	126.43	126.14	126.14	126.14	126.09	126.11	126.17	126.13	126.15	126.51
15	126.47	126.49	126.36	126.14	126.14	126.10	126.14	126.17	126.19	126.16	126.16	126.61
20	126.42	126.49	126.30	126.08	126.14	126.05	126.14	126.13	126.15	126.17	126.23	126.59
25	126.46	126.59	126.20	126.15	126.17	126.14	126.15	126.18	126.13	126.18	126.33	126.62
EOM	126.51	126.40	126.30	126.12	126.14	126.08	126.10	126.16	126.16	126.21	126.43	126.62

WTR YR 1995 HIGHEST 125.96 MAR 27, 1995 LOWEST 126.63 SEP 22, 23, 24, 1995



GROUND-WATER LEVELS

MORGAN COUNTY

360543084343101. Local number, Mg:F-5.

LOCATION.--Lat 36°05'43", long 84°34'31", Hydrologic Unit 06010208, 1.0 mi southeast of Wartburg.
Owner: Plateau Utility District.

AQUIFER.--Sandstone of Pennsylvanian age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in., depth 394 ft, cased to 20 ft, open end.

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 1,265 ft above sea level, from topographic map. Measuring point: Floor of recorder shelter, 2.4 ft above land-surface datum.

REMARKS.--Highest water level readings may be influenced for short periods by surface inflow. Records fair.

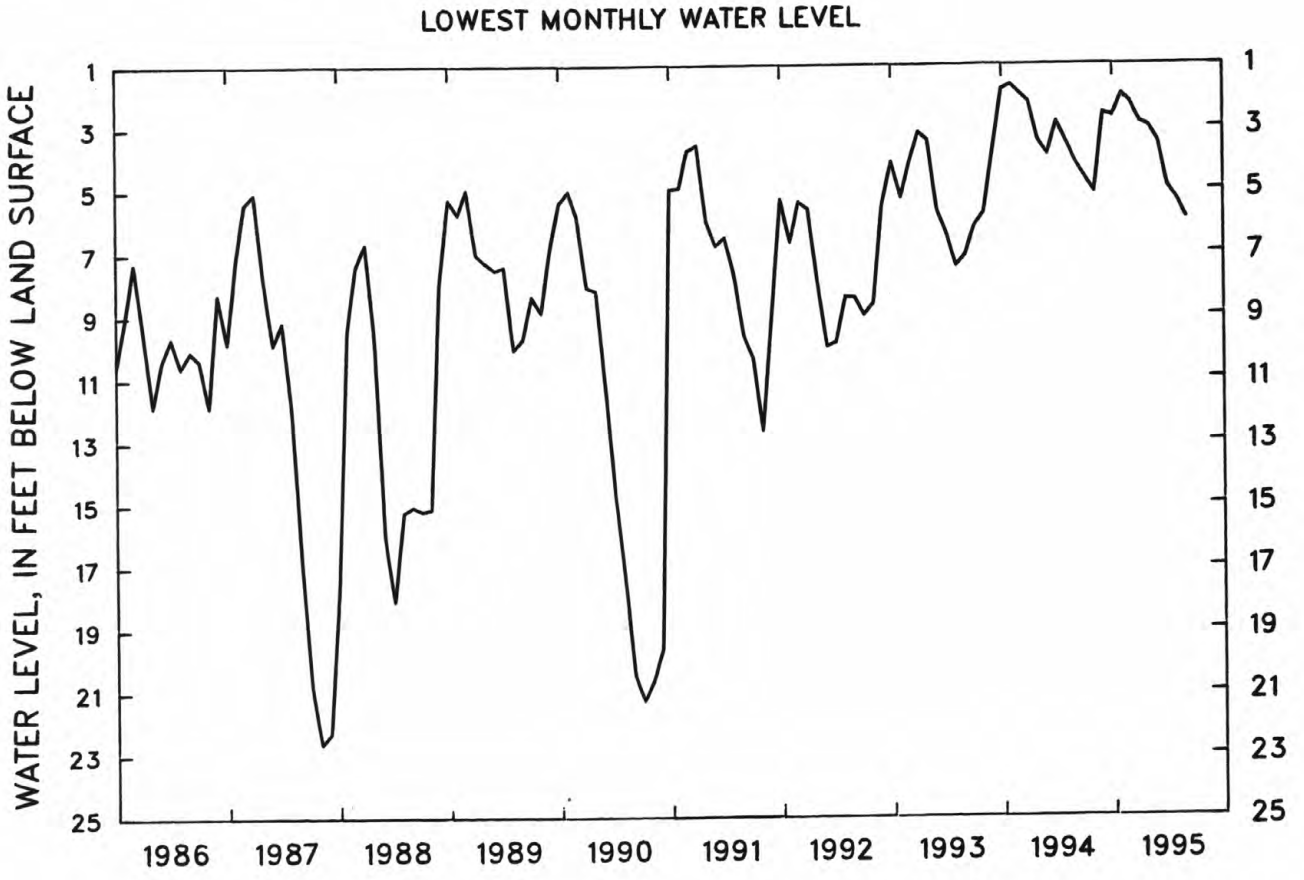
PERIOD OF RECORD.--November 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.71 ft above land-surface datum, Feb. 11, 1994; lowest recorded, 22.75 ft below land-surface datum, Nov. 18, 1987, but may have been lower during period of missing record Oct. 21 to Nov. 18, 1987.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.47	4.59	2.15	2.67	1.45	1.61	2.41	2.18	3.16	2.92	4.61	5.53
10	4.55	4.74	2.17	1.60	1.73	1.01	2.80	1.29	2.84	3.54	3.85	5.81
15	4.52	4.86	1.83	.46	1.92	1.63	2.48	1.35	2.76	4.05	4.35	5.95
20	4.21	4.95	1.99	.83	1.31	1.96	2.08	1.62	3.19	4.49	4.79	5.36
25	4.28	5.05	2.26	1.61	1.76	2.21	1.83	2.42	3.32	4.81	4.93	4.80
EOM	4.39	2.46	2.49	1.29	1.46	2.11	2.28	3.01	3.51	4.52	5.34	4.95

WTR YR 1995 HIGHEST -.25 JAN 14, 1995 LOWEST 5.95 SEPT 15, 1995



GROUND-WATER LEVELS

PUTNAM COUNTY

360521085432600. Local number, Pm:C-1.

LOCATION.--Lat 36°05'21", long 85°43'26", Hydrologic Unit 05130108, at Interstate 40 and State Highway 56, at Silver Point.
Owner: Tennessee Department of Transportation.

AQUIFER.--Fort Payne Formation of early Mississippian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., depth 175 ft, cased to 60 ft, open end.

INSTRUMENTATION.--Data logger -- 60-minute logging interval.

DATUM.--Elevation of land-surface datum is 1,030 ft above sea level, from topographic map. Measuring point: Top of instrument shelf, 2.88 ft above land surface datum.

REMARKS.--Missing record Aug. 18 to Aug. 29. Records good.

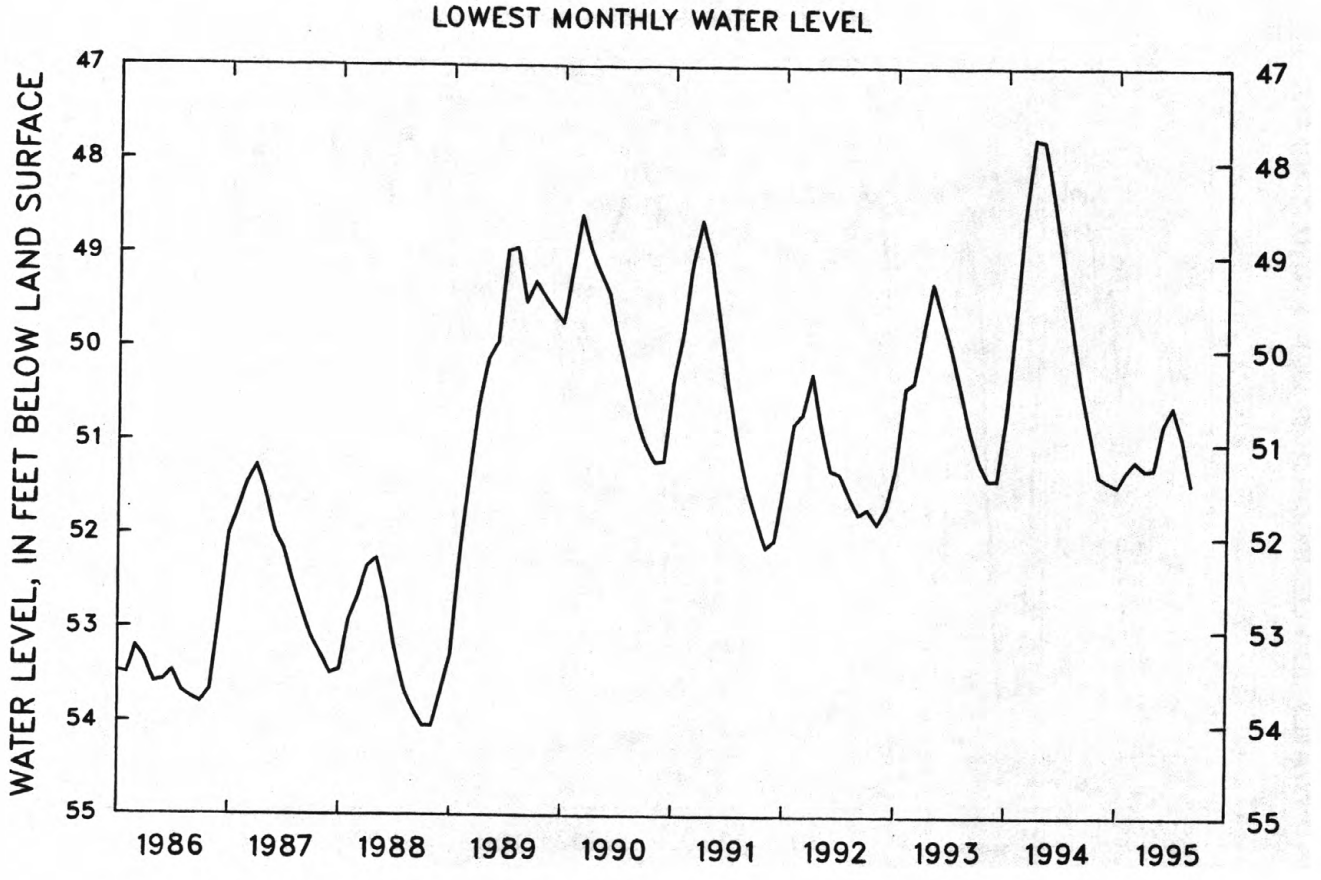
PERIOD OF RECORD.--March 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 46.50 ft below land-surface datum, Apr. 25, 1994; lowest, 54.04 ft below land-surface datum, Oct. 28, Nov. 10, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	50.49	50.93	51.36	51.46	51.19	51.08	51.03	51.27	50.55	50.25	50.72	51.04
10	50.58	51.07	51.41	51.39	51.12	51.08	51.12	51.19	50.43	50.30	50.82	51.11
15	50.67	51.14	51.36	51.34	51.18	50.96	51.17	51.15	50.37	50.36	50.84	51.19
20	50.73	51.18	51.32	51.26	51.07	50.87	51.27	51.05	50.18	50.41	---	51.30
25	50.82	51.27	51.33	51.22	51.15	50.97	51.28	50.98	50.15	50.53	---	51.36
EOM	50.80	51.35	51.35	51.15	51.12	50.98	51.21	50.80	50.18	50.58	50.93	51.42

WTR YR 1995 HIGHEST 50.07 JUN 24, 1995 LOWEST 51.46 JAN 4, 5, 1995



GROUND-WATER LEVELS

SEVIER COUNTY

353922083345600. Local number, Sv:E-2.

LOCATION.--Lat 35o39'22", long 83o34'56", Hydrologic Unit 06010201, 3.3 mi southwest of Great Smoky Mountains National Park Headquarters, near Gatlinburg.

AQUIFER.--Elkmont Sandstone of Precambrian age.

WELL CHARACTERISTICS.--Drilled unused water-table well in phyllite, sandstone, diameter 6 in., depth 220 ft, cased to 27 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

DATUM.--Elevation of land-surface is 2,150 ft above sea level, from topographic map. Measuring point: Floor of recorder shelter 1.5 ft above land-surface datum.

REMARKS.--Highest water level readings may be influenced for short periods by surface inflow. Missing record June 7 to July 20. Records good.

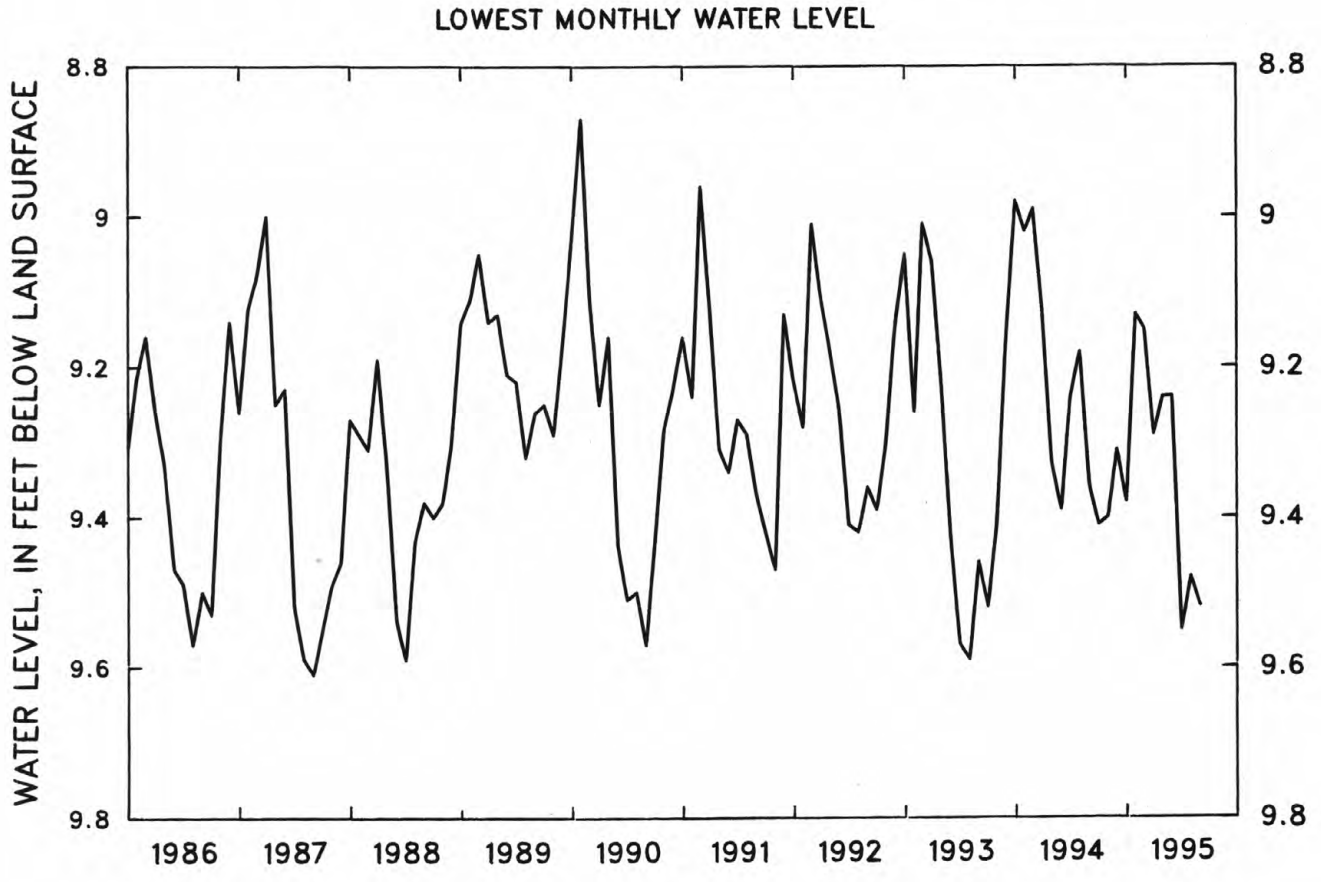
PERIOD OF RECORD.--May 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.48 ft below land-surface datum, Mar. 27, 1994; lowest, 9.68 ft below land-surface datum, Aug. 10, Sept. 16, 17, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.39	9.39	9.10	9.38	8.80	8.85	9.22	9.15	9.23	---	9.46	9.42
10	9.35	9.38	9.16	9.07	9.04	8.28	9.28	9.24	---	---	9.21	9.51
15	9.25	9.32	9.01	7.74	9.13	8.87	9.28	8.48	---	---	9.40	9.29
20	9.33	9.38	9.18	8.54	8.48	9.07	9.29	8.66	---	---	9.39	9.31
25	9.22	9.39	9.25	8.97	8.95	9.09	9.09	9.08	---	9.54	9.44	9.12
EOM	9.35	8.94	9.31	9.05	8.88	9.15	9.21	9.22	---	9.53	9.29	9.31

WTR YR 1995 HIGHEST 6.42 FEB 16, 1995 LOWEST 9.55 JUL 26, 27, 28, 29, 30, 1995



GROUND-WATER LEVELS

SHELBY COUNTY--Continued

350735089593300. Local number, Sh:P-76.

LOCATION.--Lat 35°07'35", long 89°59'33", Hydrologic Unit 08010210, at Central Avenue and Tanglewood Street, at Memphis.
Owner: Memphis Light, Gas and Water Division, City of Memphis.

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 12 in., depth 488 ft, cased to 428 ft, screened 428 to 488 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 286.70 ft above sea level. Measuring point: Top of casing, 1.30 ft above land-surface datum.

REMARKS.--Water levels affected by pumpage for municipal and industrial water supply in the Memphis area. Records good.

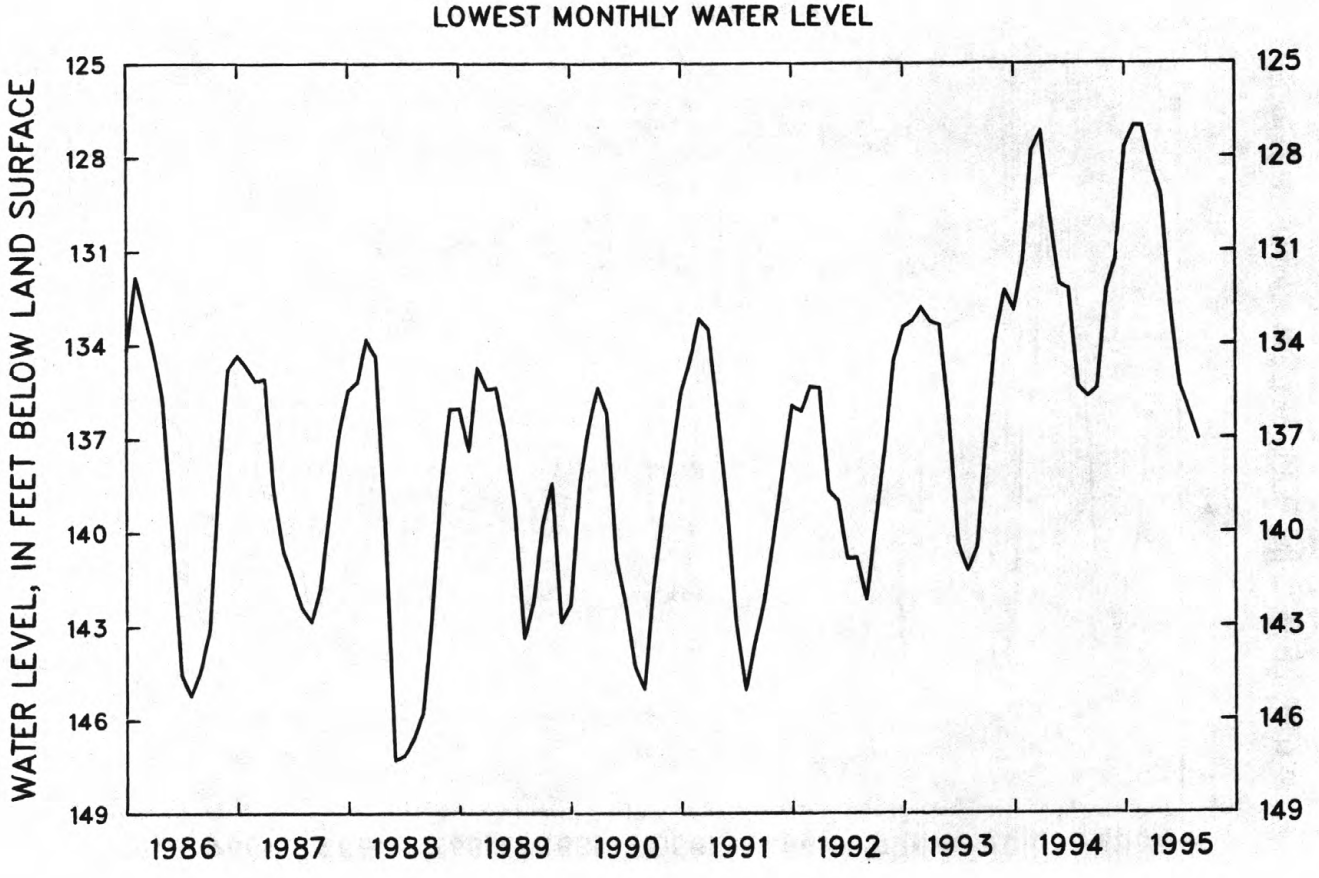
PERIOD OF RECORD.--October 1928 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 58.65 ft below land-surface datum, Apr. 3, 1933; lowest, 147.31 ft below land-surface datum, June 30, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	135.29	131.71	130.25	126.88	127.00	125.06	126.74	127.86	128.38	132.30	131.38	136.28
10	135.07	131.42	129.94	127.67	126.90	125.40	126.93	127.84	129.20	132.27	131.42	135.87
15	133.89	131.38	130.14	127.00	126.28	125.95	127.99	128.14	129.71	133.83	132.17	137.00
20	132.89	131.45	128.32	126.41	125.46	125.99	128.17	128.59	131.08	134.73	133.00	136.47
25	131.84	131.65	126.57	126.59	125.37	126.75	127.10	128.93	131.70	133.41	134.43	135.67
EOM	132.33	131.25	126.22	126.25	124.78	126.72	127.52	127.99	132.93	133.64	136.13	134.24

WTR YR 1995 HIGHEST 123.92 FEB 27, 1995 LOWEST 137.06 SEP 16, 1995



GROUND-WATER LEVELS

SHELBY COUNTY--Continued

350900089482300. Local number, Sh:Q-1.

LOCATION.--Lat 35°09'00", long 89°48'23", Hydrologic Unit 08010210, south of Macon Road, 0.6 mi west of Germantown Road, near Memphis.
Owner: Memphis Light, Gas and Water Division, City of Memphis.

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 384 ft, cased to 375 ft, screened 375 to 384 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 330.40 ft above sea level. Measuring point: Top of casing, 2.40 ft above land-surface datum.

REMARKS.--Water levels affected by pumpage for municipal and industrial water supply in the Memphis area. Records good.

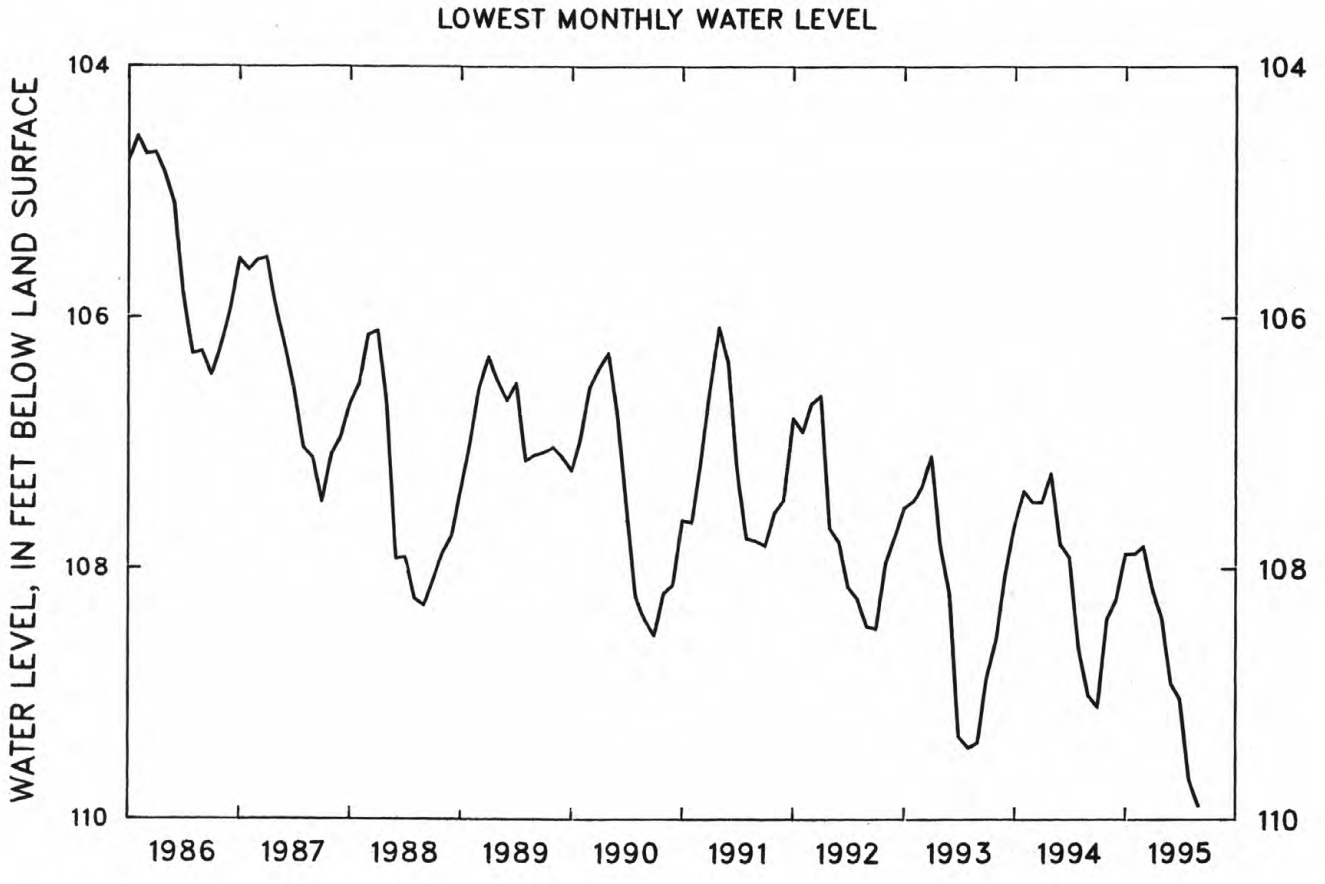
PERIOD OF RECORD.--October 1940 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 74.08 ft below land-surface datum, December 27, 1940; lowest 109.90 ft below land-surface datum, September 29, 30 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	108.92	108.23	107.99	107.88	107.81	107.42	107.95	108.08	108.20	108.75	108.71	109.72
10	108.75	108.25	107.94	107.69	107.65	107.82	108.00	107.75	108.52	108.49	108.74	109.62
15	108.48	108.23	107.90	107.65	107.51	107.37	107.90	108.08	108.41	108.81	108.82	109.86
20	108.37	108.16	107.83	107.65	107.52	107.51	107.99	108.05	108.48	108.99	109.33	109.70
25	108.40	108.15	107.77	107.83	107.88	107.73	108.04	108.31	108.66	108.75	109.44	109.56
EOM	108.25	108.25	107.69	107.72	107.53	107.76	107.98	108.16	108.78	108.89	109.70	109.90

WTR YR 1995 HIGHEST 107.15 MAR 7, 1995 LOWEST 109.90 SEP 29, 30 1995



GROUND-WATER LEVELS

CRITTENDEN COUNTY, AR

350344090130000. Local number, Ar:H-2.

LOCATION.--Lat 35°03'44", long 90°13'00", Hydrologic Unit 08020203, 0.7 mi east of Millers.
Owner: Memphis Light, Gas, and Water Division, City of Memphis, and U.S. Geological Survey.

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 502 ft, cased to 482 ft, screened 482 to 502 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 211 ft above sea level, from topographic map. Measuring point: Inside top of shelter base plate, 3.30 ft above land-surface datum.

REMARKS.--Well affected by pumpage in the Memphis, Tennessee area. Records good.

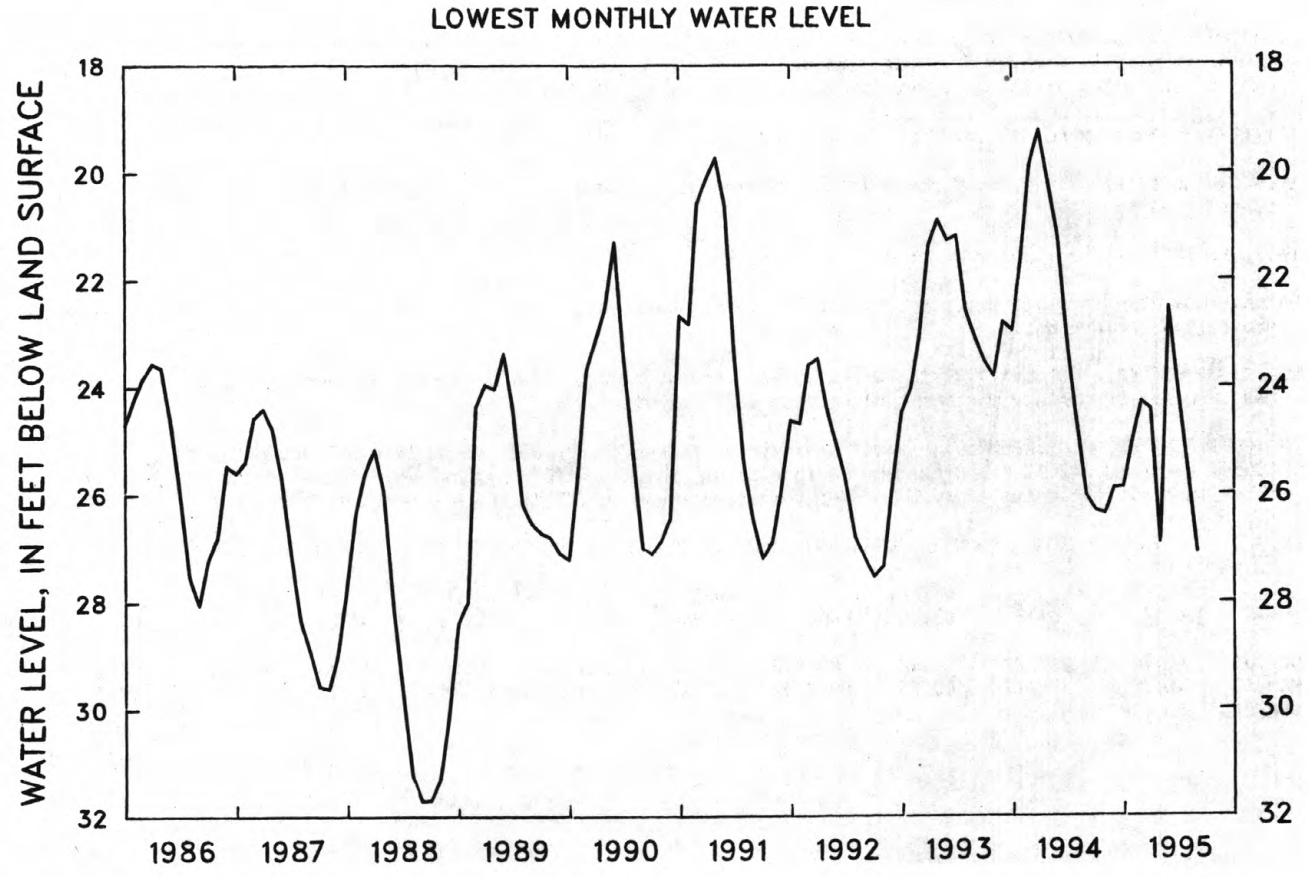
PERIOD OF RECORD.--May 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.28 ft below land-surface datum, May 30, 31, 1983; lowest, 31.71 ft below land-surface datum, September 21, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.99	26.31	25.31	25.87	24.42	24.22	24.27	23.21	19.01	22.48	24.18	25.93
10	26.08	26.05	25.13	25.74	24.40	23.97	24.29	22.86	19.50	22.61	23.99	26.31
15	26.23	25.79	24.64	25.03	24.76	22.79	24.39	22.83	20.63	22.94	23.82	26.51
20	26.22	25.95	24.94	24.16	24.51	22.75	23.71	22.19	21.28	23.50	24.70	26.78
25	26.27	26.15	25.40	23.55	23.68	23.66	23.32	21.33	22.08	23.77	25.09	26.95
EOM	26.26	25.96	25.72	24.07	23.76	24.09	23.09	19.69	22.51	24.06	25.54	27.10

WTR YR 1995 HIGHEST 18.97 JUN 5, 6, 1995 LOWEST 27.10 SEP 30, 1995



PERIODIC MEASUREMENTS OF GROUND-WATER LEVELS

FAYETTE COUNTY

352226089330101. Local number, Fa:R-1.

LOCATION.--Lat 35°22'26", long 89°33'01", Hydrologic Unit 08010209, 80 ft south of State Highway 59, 1.2 mi southeast of U.S. Highway 70, near Braden.
Owner: Tennessee Division of Geology and U.S. Geological Survey.

AQUIFER.--Fort Pillow Sand of Wilcox Group of early Eocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 to 4 in., depth 1,025 ft, cased to 1,008 ft, screened 1,008 to 1,025 ft.

INSTRUMENTATION.--Periodic measurements with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 317.50 ft above sea level. Measuring point: Top of casing, 3.70 ft above land-surface datum.

PERIOD OF RECORD.--August 1949 to current year. Analog record August 1949 to December 1970, periodic tape measurements or monthly maximum-minimum recorder thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 64.89 ft below land-surface datum, Aug. 31, 1949; lowest recorded, 76.26 ft below land-surface datum, Dec. 5, 1970; highest water level measured, 73.61 ft below land-surface datum, Apr. 28, 1976; lowest measured, 88.28 ft below land-surface datum, Sept. 27, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03	87.84	OCT 27	87.86	NOV 30	87.74	JAN 04	87.68	JAN 31	87.51	FEB 28	87.54
MAR 30	87.72	APR 27	87.62	MAY 30	86.40	JUN 29	87.20	JUL 27	87.11	AUG 31	87.63
SEP 27	88.28										

352226089330102. Local number, Fa:R-2.

LOCATION.--Lat 35°22'26", long 89°33'01", Hydrologic Unit 08010209, 80 ft south of State Highway 59, 1.1 mi southeast of U.S. Highway 70, near Braden.
Owner: Tennessee Division of Geology and U.S. Geological Survey.

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 to 4 in., depth 365 ft, cased to 345 ft, screened 345 to 365 ft.

INSTRUMENTATION.--Periodic measurements with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 317.20 ft above sea level. Measuring point: Top of casing, 4.20 ft above land-surface datum.

PERIOD OF RECORD.--October 1949 to current year. Analog record October 1949 to December 1970, periodic tape measurements or monthly maximum-minimum recorder thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 37.25 ft below land-surface datum, Mar. 10, 1952; lowest recorded, 42.12 ft below land-surface datum, Nov. 30, 1967; highest water level measured, 39.11 ft below land-surface datum, July 29, 1994; lowest measured, 41.75 ft below land-surface datum, Oct. 4, 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	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03	40.24	OCT 27	40.42	NOV 30	40.54	JAN 04	40.50	JAN 31	40.32	FEB 28	40.30
MAR 30	40.30	APR 27	40.25	MAY 30	40.27	JUN 29	40.26	JUL 27	40.26	AUG 31	40.46
SEP 27	40.67										

PERIODIC MEASUREMENTS OF GROUND-WATER LEVELS

SHELBY COUNTY

350514089553700. Local number, Sh:K-75.

LOCATION.--Lat 35°05'14", long 89°55'37", Hydrologic Unit 08010211, at Willowview Avenue and Getwell Road, at Memphis.
Owner: Memphis Light, Gas and Water Division, City of Memphis.

AQUIFER.--Fluvial sand and gravel of Pleistocene age and possibly sand of Eocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 91 ft, cased to 81 ft, screened 81 to 91 ft.

INSTRUMENTATION.--Periodic measurements with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 260 ft above sea level, from topographic map. Measuring point: Top of casing, 1.20 ft above land-surface datum.

REMARKS.--Water levels affected by pumpage for Memphis municipal water supply.

PERIOD OF RECORD.--August 1948 to September 1994 water-level recorder, periodic tape measurements thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 21.28 ft below land-surface datum, Apr. 2, 1950; lowest, 52.03 ft below land-surface datum, Jan. 13, 1988; highest water level measured, 47.25 ft below land surface-datum, Oct. 3, 1994; lowest measured, 48.17 ft below land-surface datum, Sept. 27, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03	47.25	OCT 27	47.44	NOV 30	47.57	JAN 04	47.63	JAN 31	47.59	FEB 28	47.76
APR 03	47.80	APR 28	47.71	MAY 30	47.78	JUN 29	47.83	JUL 27	47.95	AUG 31	48.03
SEP 27	48.17										

351435090005200. Local number, Sh:O-1.

LOCATION.--Lat 35°14'35", long 90°00'52", Hydrologic Unit 08010209, west side of O.K. Robertson Road, 0.4 mi north of U.S. Highway 51, at Memphis.
Owner: Memphis Light, Gas and Water Division, City of Memphis.

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 434 ft, cased to 424 ft, screened 424 to 434 ft.

INSTRUMENTATION.--Periodic measurements with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 228.70 ft above sea level. Measuring point: Top of casing, 4.30 ft above land-surface datum.

REMARKS.--Water levels affected by pumpage for municipal and industrial water supply in the Memphis area.

PERIOD OF RECORD.--September 1940 to current year. Analong record September 1940 to January 1992, periodic tape measurements thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.65 ft below land-surface datum, Sept. 3, 1940; lowest, 68.82 ft below land-surface datum, Aug. 24, 1988; highest water level measured, 50.16 ft below land-surface datum, Mar. 29, 1994; lowest measured, 63.03 ft below land-surface datum, Sept. 25, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04	58.52	OCT 28	57.74	DEC 01	57.05	JAN 05	56.42	FEB 01	55.10	MAR 01	55.30
APR 03	56.35	APR 27	56.48	JUN 01	52.88	JUN 30	56.74	JUL 31	58.80	AUG 30	60.57
SEP 25	63.03										

PERIODIC MEASUREMENTS OF GROUND-WATER LEVELS

SHELBY COUNTY--Continued

352112089571200. Local number, Sh:U-1.

LOCATION.--Lat 35°21'12", long 89°57'12", Hydrologic Unit 08010209, 3 mi west of Millington at Shelby Road and Shake Rag Road, Sloanville.
Owner: Mrs. T.S. Welch

AQUIFER.--Fort Pillow Sand of Wilcox Group of early Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 24 to 16 in., depth 1,558 ft, cased to 1,497 ft, screened 1,497 to 1,558 ft.

INSTRUMENTATION.--Periodic measurements with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 264.20 ft above sea level. Measuring point: Top of casing, 0.60 ft above land-surface datum.

REMARKS.--Water levels affected by pumpage for municipal and industrial water supply at Millington and Memphis.

PERIOD OF RECORD.--August 1946 to current year. Analog record March 1948 to January 1971, periodic tape measurements or monthly maximum-minimum recorder thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 35.5 ft below land-surface datum, Apr. 11, 1948; lowest recorded, 60.42 ft below land-surface datum, Dec. 20, 1970; highest water level measured, 33.20 ft, Apr. 21, 1947; lowest measured, 83.05 ft below land-surface datum, Sept. 25, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04	78.86	OCT 28	78.57	DEC 01	77.84	JAN 05	77.63	FEB 01	76.77	MAR 01	77.09
MAR 30	77.43	APR 27	77.07	JUN 01	75.32	JUN 30	78.55	JUL 31	80.85	AUG 30	82.22
SEP 25	83.05										

352112089571300. Local number, Sh:U-2.

LOCATION.--Lat 35°21'12", long 89°57'13", Hydrologic Unit 08010209, 3 mi west of Millington at Shelby Road and Shake Rag Road, Sloanville.
Owner: Mrs. F.E. Byrd

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 18 to 12 in., depth 440 ft, cased to 360 ft, screened 360 to 440 ft.

INSTRUMENTATION.--Periodic measurements with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 268.76 ft above sea level. Measuring point: Top of casing, 1.60 ft above land-surface datum.

REMARKS.--Water levels affected by pumpage for municipal and industrial water supply at Millington and Memphis.

PERIOD OF RECORD.--June 1953 to current year. Analog record June 1953 to December 1970, periodic tape measurements or monthly maximum-minimum recorder thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 39.59 ft below land-surface datum, June 29, 1953; lowest, 63.74 ft below land-surface datum, Sept. 1, 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	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04	58.59	OCT 28	59.69	DEC 01	58.65	JAN 05	58.37	FEB 01	57.57	MAR 01	57.73
MAR 30	57.64	APR 27	58.08	JUN 01	56.55	JUN 30	57.17	JUL 31	58.22	AUG 30	59.18
SEP 25	60.53										

PERIODIC MEASUREMENTS OF GROUND-WATER LEVELS

WILLIAMSON COUNTY

355505086541100. Local number, Wm:M-1.

LOCATION.--Lat 35°55'05", long 86°54'11", Hydrologic Unit 05130204, on Horton Lane, 0.8 mi west of Carter's Creek Road, near Franklin.
Owner: Tennessee Division of Geology and U.S. Geological Survey.

AQUIFER.--Knox Dolomite of late Cambrian and early Ordovician age.

WELL CHARACTERISTICS.--Drilled artesian test well, diameter 6 in., depth 1,160 ft, cased to 473 ft, open end.

INSTRUMENTATION.--Periodic measurements with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 712 ft above sea level, from topographic map. Measuring point: Top of casing 2.80 ft above land-surface datum.

REMARKS.--Period of record low resulted from water-level measurements on the well during a 72 hour aquifer test.

PERIOD OF RECORD.--January 1950 to current year. Water-level recorder December 1951 to February 1971, periodic tape measurements thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 84.21 ft below land-surface datum, Mar. 10, 1952; lowest recorded 87.11 ft below land-surface datum, Sept. 10, 1970; highest water level measured, 85.43 ft below land-surface datum, Feb. 19, 1974; lowest measured, 114.81 ft below land-surface datum, Jan. 31, 1950.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	90.19	DEC 20	90.27	JAN 30	90.04	FEB 28	89.99
APR 20	89.75	JUL 19	91.02	AUG 24	90.23		

QUALITY OF GROUND WATER

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

SHELBY COUNTY

350100090070301 - SH:J-139

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
SEP 07...	1300	81213	466.00	153	156	6.3	6.8	17.5	61	14	6.3	8.6

DATE	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	ALUMINUM, DISSOLVED (UG/L AS AL)
SEP 07...	23	0.5	1.0	73	3.0	3.2	<0.10	14	82	91	0.11	<20

DATE	BARIUM, DISSOLVED (UG/L AS BA)	COBALT, DISSOLVED (UG/L AS CO)	IRON, DISSOLVED (UG/L AS FE)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)
SEP 07...	61	<3	580	<4	10	<10	<1	<1	<1.0	60	<6

350446090013500 - SH:J-154 MLGW-ALLEN

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
SEP 07...	1200	81213	370.00	140	141	6.3	6.7	17.5	51	12	5.2	9.0

350446090013500 - SH:J-154 MLGW-ALLEN--Continued

DATE	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	ALUMINUM, DISSOLVED (UG/L AS AL)
SEP 07...	27	0.5	1.1	65	2.1	3.3	<0.10	14	70	87	0.09	<20

DATE	BARIUM, DISSOLVED (UG/L AS BA)	COBALT, DISSOLVED (UG/L AS CO)	IRON, DISSOLVED (UG/L AS FE)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)
SEP 07...	62	<3	970	<4	15	<10	2	<1	<1.0	50	<6

350642089555000 - SH:K-142 MLGW 99 SHEAHAN WELL FIELD

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT
SEP 08...	1100	81213	107	109	6.2	6.5	17.5	33	7.4	3.5	9.3	38

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	ALUMINUM, DISSOLVED (UG/L AS AL)
SEP 08...	0.7	0.60	43	5.4	4.3	<0.10	15	64	70	0.09	<20

QUALITY OF GROUND WATER

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

SHELBY COUNTY

350642089555000 - SH:K-142 MLGW 99 SHEAHAN WELL FIELD--Continued

DATE	BARIUM, DIS-SOLVED (UG/L AS BA)	COBALT, DIS-SOLVED (UG/L AS CO)	IRON, DIS-SOLVED (UG/L AS FE)	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)
SEP 08...	20	<3	130	<4	10	<10	<1	<1	<1.0	20	<6

350218089511701 - SH:L-36

DATE	TIME	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	PH WATER WHOLE LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
SEP 08...	0930	81213	85	88	6.3	6.7	18.5	34	8.3	3.1	4.4	22

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	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)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)
SEP 08...	0.3	0.40	39	2.8	2.2	<0.10	11	44	54	0.06	<20

DATE	BARIUM, DIS-SOLVED (UG/L AS BA)	COBALT, DIS-SOLVED (UG/L AS CO)	IRON, DIS-SOLVED (UG/L AS FE)	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)
SEP 08...	12	<3	22	<4	3	<10	<1	<1	<1.0	20	<6

QUALITY OF GROUND WATER

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

SHELBY COUNTY

350507089482401 - SH:L-90-GERMANTOWN 7

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
SEP 06...	1130	81213	304.00	77	81	6.0	6.3	17.5	21	5.0	2.1

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
SEP 06...	7.4	43	0.7	0.50	31	3.2	4.9	<0.10	13	42	56

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	BARIUM, DISSOLVED (UG/L AS BA)
SEP 06...	0.06	<0.010	0.140	0.140	<0.015	<0.20	<0.010	<0.010	<0.010	<20	17

DATE	COBALT, DISSOLVED (UG/L AS CO)	IRON, DISSOLVED (UG/L AS FE)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)
SEP 06...	<3	8	<4	<1	<10	<1	<1	<1.0	10	<6

QUALITY OF GROUND WATER

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

SHELBY COUNTY

350449089480501 - SH:L-92-GERMANTOWN 9

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
SEP 06...	1000	81213	309.00	64	66	6.0	6.3	17.0	18	4.1	1.8

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
SEP 06...	6.2	43	0.6	0.40	26	1.7	3.2	<0.10	13	44	46

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	BARIUM, DISSOLVED (UG/L AS BA)
SEP 06...	0.06	<0.010	0.100	0.100	<0.015	<0.20	<0.010	<0.010	<0.010	<20	13

DATE	COBALT, DISSOLVED (UG/L AS CO)	IRON, DISSOLVED (UG/L AS FE)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)
SEP 06...	<3	<3	<4	<1	<10	1	<1	<1.0	10	<6

QUALITY OF GROUND WATER

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

SHELBY COUNTY

350917090012000 - SH:O-231 MLGW-MALLORY

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
SEP 07...	1030	81213	518.00	136	138	6.3	6.6	17.5	54	12	5.7	8.1

DATE	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	ALUMINUM, DISSOLVED (UG/L AS AL)
SEP 07...	24	0.5	0.80	65	2.6	2.2	<0.10	16	76	87	0.10	<20

DATE	BARIUM, DISSOLVED (UG/L AS BA)	COBALT, DISSOLVED (UG/L AS CO)	IRON, DISSOLVED (UG/L AS FE)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)
SEP 07...	53	<3	1100	<4	14	<10	<1	<1	<1.0	50	<6

351440089572301 - SH:P-134 MORTON WELL FIELD

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
SEP 07...	0900	81213	460.00	127	125	6.5	6.9	18.0	51	12	5.0	5.6

QUALITY OF GROUND WATER

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

SHELBY COUNTY

351440089572301 - SH:P-134 MORTON WELL FIELD--Continued

DATE	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	ALUMINUM, DISSOLVED (UG/L AS AL)
SEP 07...	19	0.3	1.0	58	3.3	2.1	<0.10	11	90	75	0.12	<20

DATE	BARIUM, DISSOLVED (UG/L AS BA)	COBALT, DISSOLVED (UG/L AS CO)	IRON, DISSOLVED (UG/L AS FE)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)
SEP 07...	70	<3	1500	<4	24	<10	<1	<1	<1.0	70	<6

351109089512901 - SH:Q-40

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	PH WATER WHOLE LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT
SEP 08...	1300	81213	120	119	6.2	6.4	17.0	39	8.8	4.2	7.9	30

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	ALUMINUM, DISSOLVED (UG/L AS AL)
SEP 08...	0.5	0.80	45	7.2	4.9	<0.10	12	60	74	0.08	<20

351109089512901 - SH:Q-40--Continued

DATE	BARIUM, DIS-SOLVED (UG/L AS BA)	COBALT, DIS-SOLVED (UG/L AS CO)	IRON, DIS-SOLVED (UG/L AS FE)	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)
SEP 08...	50	<3	1300	<4	19	<10	<1	<1	<1.0	30	<6

350846089432801 - SH:R-39

DATE	TIME	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DEPTH OF WELL, TOTAL (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	PH WATER WHOLE LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
SEP 06...	1400	81213	1216	55	56	6.0	6.4	18.0	15	3.6	1.5	5.2

DATE	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	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)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)
SEP 06...	42	0.6	0.40	23	1.8	2.6	<0.10	12	36	40	0.05	<20

DATE	BARIUM, DIS-SOLVED (UG/L AS BA)	COBALT, DIS-SOLVED (UG/L AS CO)	IRON, DIS-SOLVED (UG/L AS FE)	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)
SEP 06...	8	<3	60	<4	2	<10	<1	<1	<1.0	9	<6

CHEMICAL QUALITY OF PRECIPITATION

00441400 HATCHIE NATIONAL WILDLIFE REFUGE RAIN GAGE AT HILLVILLE, TN (NATIONAL TRENDS NETWORK)

LOCATION.--Lat 35°28'08", long 89°10'14", Haywood County, Hydrologic Unit 08010208, 0.9 mi north of Hillville, 12 mi southeast of Brownsville.

PERIOD OF RECORD.--October 1984 to current year.

INSTRUMENTATION.--An automatic wet-dry precipitation collector is used to collect 7-day accumulations. The collector is equipped with a precipitation sensor which activates a motor to operate the sample bucket cover. The sample bucket remains uncovered for the duration of each precipitation event and covered during dry periods. Dryfall samples are not collected. A standard 8.0-inch recording rain gage is used to obtain on-site precipitation records.

REMARKS.--These data are part of the data for this site verified by the National Atmospheric Deposition Program/National Trends Network (NADP/NTN) Coordinator. Additional data are available from the NADP/NTN Coordinator, Natural Resource Ecology Laboratory, Fort Collins, Co. 80523. Data for all sites in the network are published quarterly by the NADP/NTN Coordinator's Office. Laboratory analyses were performed by the Central Analytical Laboratory of the Illinois State Water Survey.

PRECIPATATION QUALITY, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1995

DATE	TIME	TOTAL PRECIP-ITATION FOR DEFINED PERIOD (IN)	SPEC. CONDUC-TANCE FIELD ATM DEP WET TOT (US/CM)	PH FIELD ATM DEP WET T (UNITS)
OCT 1993 05-12	1331	0.25	21.0	4.42
OCT 12-19	1331	0.90	18.1	4.48
OCT 19-26	1745	0.19	21.7	4.47
OCT 26-NOV 02	1611	0.18	19.7	4.63
NOV 02-09	1412	0.09	34.7	4.26
NOV 09-16	1436	3.51	7.8	4.91
NOV 16-23	1459	1.53	8.9	4.79
NOV 23-30	1442	0.29	29.6	4.28
NOV 30-DEC 07	1425	2.58	12.4	4.65
DEC 07-14	1625	1.43	13.4	4.65
DEC 14-21	1401	0.33	9.4	4.75
DEC 21-28	1425	0.71	29.2	4.26

CHEMICAL QUALITY OF PRECIPITATION

00441400 HATCHIE NATIONAL WILDLIFE REFUGE RAIN GAGE AT HILLVILLE, TN--Continued
(NATIONAL TRENDS NETWORK)

PRECIPATATION QUALITY, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1995

DATE	TIME	TOTAL PRECIP-ITATION FOR DEFINED PERIOD (IN)	SPEC. CONDUC-TANCE FIELD ATM DEP WET TOT (US/CM)	PH FIELD ATM DEP WET T (UNITS)
DEC 28 1993-JAN 04 1994	1842	0.11	43.5	4.26
JAN 04-11	1346	0.67	22.0	4.55
JAN 11-18	1441	1.37	20.6	4.45
JAN 18-25	1935	0.61	22.3	4.40
JAN 25-FEB 01	1448	1.94	8.0	4.84
FEB 01-08	1344	0.01	--	--
FEB 08-15	1434	2.74	--	--
FEB 15-22	1434	0.50	15.4	4.64
FEB 22-MAR 01	1418	1.67	24.1	4.39
MAR 01-08	1445	0.58	35.7	4.20
MAR 08-15	2235	2.16	21.1	4.39
MAR 15-22	1448	0.02	--	--
MAR 22-29	2258	4.39	21.3	4.52
MAR 29-APR 05	1512	1.12	17.3	4.58
APR 05-12	1425	2.06	--	--
APR 12-19	1424	0.74	13.3	4.79
APR 19-26	2145	0.08	17.9	4.58
APR 26-MAY 03	1323	1.30	19.1	4.53
MAY 03-10	2135	0.74	27.5	4.45
MAY 10-17	2137	2.18	14.7	4.62
MAY 17-24	2139	0.0	--	--
MAY 24-31	2137	3.19	11.7	4.79
MAY 31-JUN 07	2148	0.92	19.1	4.44

CHEMICAL QUALITY OF PRECIPITATION

00441400 HATCHIE NATIONAL WILDLIFE REFUGE RAIN GAGE AT HILLVILLE, TN--Continued
(NATIONAL TRENDS NETWORK)

PRECIPATATION QUALITY, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1995

DATE	TIME	TOTAL PRECIP-ITATION FOR DEFINED PERIOD (IN)	SPEC. CONDUC-TANCE FIELD ATM DEP WET TOT (US/CM)	PH FIELD ATM DEP WET T (UNITS)
JUN 1994 07-14	2137	1.66	18.0	4.62
JUN 14-21	2134	0.06	35.3	4.29
JUN 21-28	2148	4.03	12.5	4.79
JUN 28-JUL 05	2136	1.24	9.5	4.82
JUL 05-12	2135	0.85	16.2	4.59
JUL 12-19	2144	1.54	11.6	4.72
JUL 19-26	2139	1.38	32.9	4.35
JUL 26-AUG 02	2145	1.42	14.3	4.60
AUG 02-09	1317	1.77	6.1	4.93
AUG 09-16	1323	0.86	23.8	4.40
AUG 16-23	1327	0.69	19.4	4.44
AUG 23-30	1328	0.0	--	--
AUG 30-SEP 06	1320	0.66	38.6	4.15
SEP 06-13	1432	0.01	--	--
SEP 13-20	1342	0.78	14.4	4.54
SEP 20-27	1245	1.37	21.2	4.49
SEP 27-OCT 04	1343	0.02	--	--
OCT 04-11	1300	0.64	8.5	4.85
OCT 11-18	1259	1.54	7.7	4.79
OCT 18-25	1410	0.24	37.1	4.30
OCT 25-NOV 01	1337	0.02	--	--
NOV 01-08	1451	1.01	7.7	4.89
NOV 08-15	1824	0.23	22.2	4.46
NOV 15-22	1503	0.44	23.8	4.37
NOV 22-29	1628	2.29	8.0	4.80
NOV 29-DEC 06	1457	0.20	7.3	4.93
DEC 06-13	1427	2.98	19.3	4.40
DEC 13-20	1452	0.56	25.7	4.34
DEC 20-27	1406	0.71	17.6	4.47

CHEMICAL QUALITY OF PRECIPITATION

00441400 HATCHIE NATIONAL WILDLIFE REFUGE RAIN GAGE AT HILLVILLE, TN--Continued
(NATIONAL TRENDS NETWORK)

PRECIPATATION QUALITY, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1995

DATE	TIME	TOTAL PRECIP-ITATION FOR DEFINED PERIOD (IN)	SPEC. CONDUC-TANCE FIELD ATM DEP WET TOT (US/CM)	PH FIELD ATM DEP WET T (UNITS)
DEC 27 1994-JAN 03 1995	1500	0.02	--	--
JAN 03-10	1450	1.32	11.7	4.68
JAN 10-17	1412	0.37	20.9	4.41
JAN 17-24	1449	1.36	15.0	4.59
JAN 24-31	1508	0.21	--	--
JAN 31-FEB 07	1505	0.13	21.4	4.45
FEB 07-14	1450	0.17	48.0	4.08
FEB 14-21	1505	0.79	26.7	4.32
FEB 21-28	1445	0.27	10.8	4.61
FEB 28-MAR 07	1508	2.14	12.9	4.61
MAR 07-14	1928	0.31	14.6	4.55
MAR 14-21	1452	--	--	--
MAR 21-28	1445	1.38	15.7	4.59
MAR 28-APR 04	1254	0.06	20.6	4.49
APR 04-11	1405	0.35	10.7	4.66
APR 11-18	1341	--	14.5	4.73
APR 18-25	1420	2.16	13.9	4.64
APR 25-MAY 02	1349	1.17	--	--
MAY 02-09	1514	0.45	21.5	4.37
MAY 09-16	1632	0.05	26.8	4.88
MAY 16-23	1347	1.85	13.4	5.43
MAY 23-30	1401	0.96	9.4	4.79
MAY 30-JUN 06	1351	1.93	22.1	4.34

CHEMICAL QUALITY OF PRECIPITATION

00441400 HATCHIE NATIONAL WILDLIFE REFUGE RAIN GAGE AT HILLVILLE, TN--Continued
(NATIONAL TRENDS NETWORK)

PRECIPATATION QUALITY, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1995

DATE	TIME	TOTAL PRECIP-ITATION FOR DEFINED PERIOD (IN)	SPEC. CONDUC-TANCE FIELD ATM DEP WET TOT (US/CM)	PH FIELD ATM DEP WET T (UNITS)
JUN 1995 06-13	1356	2.72	18.9	4.53
JUN 13-20	1409	0.67	150.9	3.55
JUN 20-27	1412	0.31	41.9	4.13
JUN 27-JUL 04	1506	0.95	27.0	4.26
JUL 04-11	1545	1.66	9.8	4.88
JUL 11-18	1252	--	--	--
JUL 18-25	1420	3.92	15.3	4.53
JUL 25-AUG 01	1424	0.23	46.9	4.02
AUG 01-08	1322	4.33	4.9	4.92
AUG 08-15	1330	0.08	29.7	4.27
AUG 15-22	1344	0.12	75.0	3.83
AUG 22-29	1409	0.0	--	--
AUG 29-SEP 05	1405	0.01	--	--
SEP 05-12	1348	0.0	--	--
SEP 12-19	1352	0.65	45.2	4.06
SEP 19-26	1408	0.16	53.9	3.98
SEP 26-OCT 03	1314	0.14	50.4	4.08

CHEMICAL QUALITY OF PRECIPITATION

00441400 HATCHIE NATIONALWILDLIFE REFUGE RAIN GAGE AT HILLVILLE, TN--Continued
(NATIONAL TRENDS NETWORK)

PRECIPITATION QUALITY, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1995

DATE	TIME	CALCIUM ATM DEP WET DIS (MG/L)	MAG-NESIUM ATM DEP WET DIS (MG/L)	SODIUM ATM DEP WET DIS (MG/L)	POTAS-SIUM ATM DEP WET DIS (MG/L)	SULFATE ATM DEP WET DIS AS SO4 (MG/L)	CHLO-RIDE ATM DEP WET DIS (MG/L)	NI-TROGEN NITRATE ATM DEP WET DIS AS NO3 (MG/L)	NI-TROGEN AMMON. ATM DEP WET DIS AS NH4 (MG/L)	PHOS-PHORUS ORTHO ATM DEP WET DIS AS PO4 (MG/L)
OCT 1993										
05-12	1331	0.070	0.017	0.133	0.014	1.71	0.18	1.12	0.180	<0.020
OCT										
12-19	1331	0.090	0.011	0.073	0.016	1.32	0.12	1.23	0.110	<0.020
OCT										
19-26	1745	0.120	0.031	0.203	0.040	1.72	0.29	1.64	0.300	<0.020
OCT 26-										
NOV 02	1611	0.580	0.059	0.051	0.038	2.32	0.13	1.80	0.380	<0.020
NOV										
02-09	1412	0.100	0.025	0.170	0.025	3.30	0.25	2.38	0.720	<0.020
NOV										
09-16	1436	0.020	0.021	0.220	0.011	0.67	0.31	0.41	0.110	<0.020
NOV										
16-23	1459	0.020	0.008	0.080	0.011	0.74	0.13	0.40	0.070	<0.020
NOV										
23-30	1442	0.110	0.025	0.175	0.021	2.17	0.27	1.94	0.410	0.003
NOV 30-										
DEC 07	1425	0.030	0.026	0.213	0.010	0.90	0.37	0.54	0.090	<0.003
DEC										
07-14	1625	0.090	0.018	0.121	0.015	1.09	0.20	0.77	0.120	0.005
DEC										
14-21	1401	0.040	0.007	0.056	0.008	0.61	0.07	0.72	0.110	<0.003
DEC										
21-28	1425	0.080	0.052	0.391	0.023	2.61	0.65	1.67	0.350	<0.003

CHEMICAL QUALITY OF PRECIPITATION

00441400 HATCHIE NATIONALWILDLIFE REFUGE RAIN GAGE AT HILLVILLE, TN--Continued
(NATIONAL TRENDS NETWORK)

PRECIPITATION QUALITY, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1995

DATE	TIME	CALCIUM ATM DEP WET DIS (MG/L)	MAG-NESIUM ATM DEP WET DIS (MG/L)	SODIUM ATM DEP WET DIS (MG/L)	POTAS-SIUM ATM DEP WET DIS (MG/L)	SULFATE ATM DEP WET DIS AS SO4 (MG/L)	CHLO-RIDE ATM DEP WET DIS (MG/L)	NI-TROGEN NITRATE ATM DEP WET DIS AS NO3 (MG/L)	NI-TROGEN AMMON. ATM DEP WET DIS AS NH4 (MG/L)	PHOS-PHORUS ORTHO ATM DEP WET DIS AS PO4 (MG/L)
DEC 28 1993-JAN 04 1994	1842	0.110	0.016	0.077	0.022	3.98	0.22	1.62	0.360	<0.003
JAN 04-11	1346	0.140	0.092	0.615	0.048	1.63	0.94	1.21	0.190	0.004
JAN 11-18	1441	0.050	0.049	0.378	0.022	1.46	0.67	0.90	0.130	<0.003
JAN 18-25	1935	0.040	0.011	0.097	0.007	1.36	0.19	0.98	0.120	<0.003
JAN 25-FEB 01	1448	0.010	0.005	0.054	0.005	0.46	0.09	0.36	0.060	<0.003
FEB 01-08	1344	--	--	--	--	--	--	--	--	--
FEB 08-15	1434	--	--	--	--	--	--	--	--	--
FEB 15-22	1434	0.070	0.041	0.328	0.027	1.13	0.52	0.72	0.160	<0.003
FEB 22-MAR 01	1418	0.070	0.021	0.153	0.019	1.81	0.22	1.00	0.190	<0.003
MAR 01-08	1445	0.120	0.014	0.087	0.019	3.42	0.20	1.89	0.540	<0.003
MAR 08-15	2235	0.050	0.006	0.056	0.009	1.82	0.10	0.75	0.170	<0.003
MAR 15-22	1448	--	--	--	--	--	--	--	--	--
MAR 22-29	2258	0.170	0.018	0.121	0.035	1.76	0.17	0.93	0.310	<0.003
MAR 29-APR 05	1512	0.270	0.041	0.083	0.041	1.55	0.17	1.00	0.310	<0.003
APR 05-12	1425	0.130	0.028	0.195	0.038	1.25	0.29	0.90	0.260	<0.003
APR 12-19	1424	0.260	0.034	0.128	0.059	1.65	0.20	0.92	0.390	<0.003
APR 19-26	2145	0.170	0.036	0.192	0.049	1.09	0.29	1.34	0.310	<0.003
APR 26-MAY 03	1323	0.100	0.026	0.161	0.030	1.43	0.25	1.18	0.240	<0.003
MAY 03-10	2135	0.140	0.022	0.091	0.029	1.99	0.17	1.30	0.410	<0.003
MAY 10-17	2137	0.090	0.016	0.056	0.029	1.28	0.12	0.97	0.250	<0.003
MAY 17-24	2139	--	--	--	--	--	--	--	--	--
MAY 24-31	2137	0.030	0.005	0.021	0.007	0.94	0.04	0.63	0.210	<0.003
MAY 31-JUN 07	2148	0.070	0.005	0.037	0.012	0.90	0.07	1.43	0.140	<0.003

CHEMICAL QUALITY OF PRECIPITATION

00441400 HATCHIE NATIONALWILDLIFE REFUGE RAIN GAGE AT HILLVILLE, TN--Continued
(NATIONAL TRENDS NETWORK)

PRECIPITATION QUALITY, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1995

DATE	TIME	CALCIUM ATM DEP WET DIS (MG/L)	MAG-NESIUM ATM DEP WET DIS (MG/L)	SODIUM ATM DEP WET DIS (MG/L)	POTAS-SIUM ATM DEP WET DIS (MG/L)	SULFATE ATM DEP WET DIS AS SO4 (MG/L)	CHLO-RIDE ATM DEP WET DIS (MG/L)	NI-TROGEN NITRATE ATM DEP WET DIS AS NO3 (MG/L)	NI-TROGEN AMMON. ATM DEP WET DIS AS NH4 (MG/L)	PHOS-PHORUS ORTHO ATM DEP WET DIS AS PO4 (MG/L)
JUN 1994 07-14	2137	0.110	0.018	0.068	0.028	1.14	0.09	1.09	0.160	<0.003
JUN 14-21	2134	0.510	0.073	0.218	0.067	2.66	0.32	4.04	0.690	0.003
JUN 21-28	2148	0.130	0.019	0.113	0.037	1.15	0.11	1.19	0.450	<0.003
JUN 28-JUL 05	2136	0.080	0.014	0.061	0.027	0.76	0.07	0.89	0.180	0.004
JUL 05-12	2135	0.100	0.015	0.087	0.017	0.98	0.13	1.24	0.130	<0.003
JUL 12-19	2144	0.080	0.021	0.135	0.018	0.76	0.23	1.03	0.120	<0.003
JUL 19-26	2139	0.170	0.024	0.120	0.033	2.25	0.19	1.93	0.310	0.004
JUL 26-AUG 02	2145	0.060	0.009	0.031	0.016	1.04	0.06	1.09	0.220	<0.003
AUG 02-09	1317	0.020	0.003	0.034	0.009	0.41	0.06	0.42	0.050	<0.003
AUG 09-16	1323	0.140	0.015	0.015	0.019	2.82	0.06	1.26	0.580	<0.003
AUG 16-23	1327	0.060	0.005	0.027	<0.003	1.70	0.08	0.93	0.070	<0.003
AUG 23-30	1328	--	--	--	--	--	--	--	--	--
AUG 30-SEP 06	1320	0.240	0.042	0.176	0.055	3.36	0.31	2.88	0.430	<0.003
SEP 06-13	1432	0.360	0.047	0.304	0.094	2.34	0.41	2.22	0.410	<0.018
SEP 13-20	1342	0.080	0.012	0.055	0.006	1.16	0.10	0.76	0.020	<0.003
SEP 20-27	1245	0.130	0.009	0.020	0.025	1.91	0.05	1.37	0.370	<0.003
SEP 27-OCT 04	1343	0.140	0.022	0.151	0.012	0.69	0.21	0.35	<0.020	<0.003
OCT 04-11	1300	0.030	0.007	0.097	0.018	0.51	0.15	0.61	0.070	0.004
OCT 11-18	1259	<0.010	0.005	0.052	0.004	0.38	0.09	0.38	<0.020	<0.003
OCT 18-25	1410	0.120	0.140	1.13	0.070	2.33	2.08	2.13	0.210	<0.003
OCT 25-NOV 01	1337	--	--	--	--	--	--	--	--	--
NOV 01-08	1451	0.090	0.019	0.145	0.019	0.77	0.21	0.35	0.130	<0.003
NOV 08-15	1824	0.040	0.009	0.059	0.026	1.20	0.11	2.06	0.300	<0.003
NOV 15-22	1503	0.050	0.017	0.122	0.021	1.89	0.22	1.11	0.160	0.005
NOV 22-29	1628	0.080	0.021	0.164	0.015	0.66	0.26	0.38	0.100	<0.003
NOV 29-DEC 06	1457	0.020	0.005	0.055	0.015	0.50	0.09	0.71	0.230	<0.003
DEC 06-13	1427	0.010	0.007	0.053	0.006	1.58	0.11	0.67	0.130	<0.003
DEC 13-20	1452	0.030	0.008	0.078	0.016	2.00	0.15	1.33	0.320	<0.003
DEC 20-27	1406	0.030	0.008	0.085	0.010	1.28	0.12	1.31	0.200	<0.003

CHEMICAL QUALITY OF PRECIPITATION

00441400 HATCHIE NATIONALWILDLIFE REFUGE RAIN GAGE AT HILLVILLE, TN--Continued
(NATIONAL TRENDS NETWORK)

PRECIPITATION QUALITY, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1995

DATE	TIME	CALCIUM ATM DEP WET DIS (MG/L)	MAG-NESIUM ATM DEP WET DIS (MG/L)	SODIUM ATM DEP WET DIS (MG/L)	POTAS-SIUM ATM DEP WET DIS (MG/L)	SULFATE ATM DEP WET DIS AS SO4 (MG/L)	CHLO-RIDE ATM DEP WET DIS (MG/L)	NI-TROGEN NITRATE ATM DEP WET DIS AS NO3 (MG/L)	NI-TROGEN AMMON. ATM DEP WET DIS AS NH4 (MG/L)	PHOS-PHORUS ORTHO ATM DEP WET DIS AS PO4 (MG/L)
DEC 27 1994-JAN 03 1995	1500	0.200	0.045	0.346	0.063	5.06	0.63	7.84	0.740	0.015
JAN 03-10	1450	0.050	0.007	0.049	0.006	0.84	0.10	0.52	0.080	<0.003
JAN 10-17	1412	0.050	0.009	0.067	0.010	0.91	0.11	1.89	0.130	<0.003
JAN 17-24	1449	0.060	0.023	0.171	0.016	1.11	0.27	0.94	0.160	<0.003
JAN 24-31	1508	0.130	0.016	0.065	0.021	1.81	0.12	2.01	0.240	0.003
JAN 31-FEB 07	1505	0.210	0.037	0.066	0.029	1.55	0.12	2.53	0.420	<0.003
FEB 07-14	1450	0.530	0.043	0.115	0.033	3.42	0.17	3.83	0.510	0.004
FEB 14-21	1505	0.100	0.020	0.184	0.019	2.14	0.30	1.16	0.270	<0.003
FEB 21-28	1445	0.060	0.009	0.038	0.012	0.67	0.07	0.53	0.100	<0.003
FEB 28-MAR 07	1508	0.050	0.012	0.096	0.019	0.87	0.16	0.67	0.150	<0.003
MAR 07-14	1928	0.020	0.006	0.040	0.009	1.12	0.06	0.67	0.030	<0.003
MAR 14-21	1452	--	--	--	--	--	--	--	--	--
MAR 21-28	1445	0.160	0.026	0.156	0.066	1.48	0.21	0.84	0.380	<0.003
MAR 28-APR 04	1254	0.310	0.038	0.081	0.089	1.55	0.11	1.63	0.520	<0.003
APR 04-11	1405	0.040	0.009	0.077	0.011	0.41	0.11	0.71	0.140	<0.003
APR 11-18	1341	0.210	0.031	0.166	0.039	1.08	0.23	1.37	0.260	<0.003
APR 18-25	1420	0.150	0.030	0.169	0.046	1.20	0.27	1.06	0.270	<0.003
APR 25-MAY 02	1349	0.260	0.034	0.119	0.033	1.79	0.16	1.56	0.340	<0.003
MAY 02-09	1514	0.180	0.025	0.088	0.025	1.76	0.17	1.50	0.280	<0.003
MAY 09-16	1632	0.630	0.100	0.720	0.156	2.76	1.10	2.49	1.01	<0.003
MAY 16-23	1347	0.310	0.054	0.340	0.096	1.81	0.58	1.32	0.910	<0.003
MAY 23-30	1401	0.110	0.019	0.094	0.018	0.69	0.13	0.90	0.190	<0.003
MAY 30-JUN 06	1351	0.110	0.014	0.050	0.018	1.51	0.09	1.81	0.250	0.008

CHEMICAL QUALITY OF PRECIPITATION

00441400 HATCHIE NATIONALWILDLIFE REFUGE RAIN GAGE AT HILLVILLE, TN--Continued
(NATIONAL TRENDS NETWORK)

PRECIPITATION QUALITY, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1995

DATE	TIME	CALCIUM ATM DEP WET DIS (MG/L)	MAG-NESIUM ATM DEP WET DIS (MG/L)	SODIUM ATM DEP WET DIS (MG/L)	POTAS-SIUM ATM DEP WET DIS (MG/L)	SULFATE ATM DEP WET DIS AS SO4 (MG/L)	CHLO-RIDE ATM DEP WET DIS (MG/L)	NI-TROGEN NITRATE ATM DEP WET DIS AS NO3 (MG/L)	NI-TROGEN AMMON. ATM DEP WET DIS AS NH4 (MG/L)	PHOS-PHORUS ORTHO ATM DEP WET DIS AS PO4 (MG/L)
JUN 1995 06-13	1356	0.110	0.027	0.119	0.038	1.38	0.25	1.70	0.330	<0.003
JUN 13-20	1409	0.970	0.115	0.039	0.111	14.2	0.51	9.04	2.50	<0.003
JUN 20-27	1412	0.230	0.020	0.052	0.030	3.24	0.16	3.33	0.720	<0.003
JUN 27-JUL 04	1506	0.120	0.013	0.026	0.022	2.18	0.08	2.08	0.410	<0.003
JUL 04-11	1545	0.130	0.035	0.218	0.032	0.60	0.35	0.89	0.190	<0.003
JUL 11-18	1252	--	--	--	--	--	--	--	--	--
JUL 18-25	1420	0.120	0.019	0.126	0.016	1.15	0.17	1.18	0.180	<0.003
JUL 25-AUG 01	1424	0.350	0.045	0.145	0.020	3.22	0.29	3.77	0.220	<0.003
AUG 01-08	1322	<0.010	0.004	0.037	<0.003	0.32	<0.03	0.25	0.040	<0.003
AUG 08-15	1330	0.130	0.034	0.149	0.040	1.92	0.23	2.73	0.410	<0.003
AUG 15-22	1344	0.570	0.054	0.124	0.038	5.88	0.30	5.74	0.710	0.005
AUG 22-29	1409	--	--	--	--	--	--	--	--	--
AUG 29-SEP 05	1405	1.81	0.223	0.245	0.214	10.1	0.58	8.29	2.50	<0.014
SEP 05-12	1348	0.020	0.004	0.044	0.042	<0.03	0.09	0.17	0.040	<0.003
SEP 12-19	1352	0.150	0.021	0.085	0.039	3.87	0.21	2.99	0.810	<0.003
SEP 19-26	1408	0.230	0.026	0.060	0.017	3.39	0.16	4.24	0.370	<0.003
SEP 26-OCT 03	1314	0.310	0.097	0.678	0.065	4.55	0.78	3.64	0.500	0.004

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Tennessee have been discontinued. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. Those stations with an asterisk (*) after the station number are currently operated as crest-stage partial-record stations.

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only); Agency designations: USGS, U.S. Geological Survey; TVA, Tennessee Valley Authority]

Station name	Station number	Agency	Drainage area (mi^2)	Period of record
Red Boiling Spring at Red Boiling Springs (d)	03312250	USGS		1986
Crabapple Branch near La Follette (d)	03403718	USGS	1.07	1981-84
Indian Fork above Braytown (d)	03407804	USGS	4.32	1975-78
Green Branch near Hembree (d)	03407874	USGS	1.38	1976-78
Smoky Creek above Hembree (361240084245800) (d)	034078745	USGS	8.07	1982-83
Bills Branch near Hembree (d)	03407875	USGS	.67	1975-83
Shack Creek at Hembree (361341084253900) (d)	034078755	USGS	5.08	1982-84
Smoky Creek near Hembree (d)	03407876	USGS	17.2	1977-84
Bowling Branch above Smoky Junction (d)	03407877	USGS	2.19	1976-81
Anderson Branch near Montgomery (d)	03407881	USGS	.69	1976-80
Lowe Branch near Montgomery (d)	03407882	USGS	.92	1975-80
New River at Cordell (d)	03407908	USGS	198	10/75-77, 5/77-12/87
New River near New River (d)	03408000	USGS	314	1923-35
Long Branch near Grimsley (d)	03408600	USGS	1.11	1976-81
Crooked Creek tributary near Allardt (d)	03408810	USGS	.25	1976-79
Crooked Creek near Allardt (d)	03408815	USGS	3.62	1976-81
White Oak Creek at Sunbright (d)	03409000*	USGS	13.5	1932-33
White Oak Creek at Rugby (d)	03409400	USGS	98.0	1980-82
Pine Creek tributary at Oneida (d)	03410000	USGS	1.21	1932-33
South Fork Cumberland River at Leatherwood Ford (d)	03410210	USGS	806	1983-87
West Fork Obey River near Alpine (d)	03415000	USGS	115	1943-71, 1980-81
Obey River near Byrdstown (d)	03415500	USGS	445	1919-43
Obey River below Dale Hollow Dam (d)	03417000	USGS	936	1939-42, 1945-58
Roaring River near Hilham (d)	03418000	USGS	78.7	1932-75
Roaring River near Gainesboro (d)	03418188	USGS	276	1975
Caney Fork at Clifty (d)	03418500	USGS	111	1931-49
Bee Creek at Herbert (d)	03419000	USGS	101	1931-37
Calfkiller River at Sparta (d)	03419500	USGS	157	1932-41
Calfkiller River below Sparta (d)	03420000	USGS	175	1940-71
Barren Fork near Trousdale (d)	03420500	USGS	126	1932-57
Collins River near Rowland (d)	03421500	USGS	755	1916-24
Falling Water River near Cookeville (d)	03423000	USGS	67.0	1932-56
Falling Water River below Burgess Falls Dam (d)	03423152	USGS	124	1990-93
Taylor Creek near Cassville (d)	03423400	USGS	34.2	1989-93
Caney Fork below Center Hill Dam, near Lancaster (d)	03424500	USGS	2,183	1923-58
Spring Creek near Lebanon (d)	03425500	USGS	35.3	1955-61
Town Creek at Maple Street at Gallatin (d)	03425646	USGS	4.74	1984
Drakes Creek above Hendersonville (d)	03426000	USGS	19.2	1955-61
Cumberland River at Dam 3, near Old Hickory (d)	03426210	USGS	11,688	1931-42, 1947-53
East Fork Stones River at Woodbury (d)	03426800*	USGS	39.1	1932-33, 1950, 1954, 1962-89
Bradley Creek at Lascassas (d)	03427000	USGS	37.0	1955-61
Bushman Creek at Pitts Lane Ford near Compton (d)	03427690	USGS	9.67	1989-92
West Fork Stones River near Murfreesboro (d)	03428000	USGS	128	1932-69
Lytle Creek at Sanbyrn Drive at Murfreesboro (d)	03428043	USGS	17.6	1990-92
Fox Camp Spring at Mankinville (d)	03428047	USGS		1978-80
West Fork Stones River at Manson Pike, at Murfreesboro (d)	03428070	USGS	165	1973-81
Stones River near Smyrna (d)	03429000	USGS	571	1925-67
Stewart Creek near Smyrna (Smyrna Airport) (d)	03429500	USGS	69.7	1953-58
Stones River below J. Percy Priest Dam (d)	03430100	USGS	892	1939-67

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only); Agency designations: USGS, U.S. Geological Survey; TVA, Tennessee Valley Authority]

Station name	Station number	Agency	Drainage area (mi^2)	Period of record
Collins Creek at Bell Road, near Antioch (d)	03430800	USGS	3.61	1976-77
Mill Creek near Antioch (d)	03431000	USGS	64.0	1954-61, 1964-75
Browns Creek at State Fairgrounds, at Nashville (d)	03431300	USGS	11.8	1964-75
Cumberland River at Nashville (d)	03431500	USGS	12,856	1893-54
Cummings Branch at Lickton (d)	03431517	USGS	2.40	1976-90
Whites Creek at Tucker Road, near Bordeaux (d)	03431600	USGS	51.6	1965-75
Richland Creek at Charlotte Ave, at Nashville (d)	03431700	USGS	24.3	1964-90
West Harpeth River near Leipers Fork (d)	03432500	USGS	66.9	1955-61
Red River near Portland (d)	03435030	USGS	15.1	1967-75
Red River near Adams (d)	03435500	USGS	706	1920-69
Sulphur Fork Red River near Adams (d)	03436000	USGS	186	1938-91
Cumberland River at Clarksville (lock C) (d)	03436500	USGS	15,897	1925-44
Yellow Creek near Shiloh (d)	03436700*	USGS	124	1958-80
Cumberland River at Dover (gaging station) (d)	03437000	USGS	16,437	1938-65
French Broad River near Newport (d)	03455000	TVA	1,858	1900 1901 1902-05, 1907 1920-94
Pigeon River at Hartford (d)	03461000	USGS	547	1925-48
Cosby Creek above Cosby (d)	03461200	USGS	10.1	1967-87
Pigeon River at Newport (d)	03461500	USGS	666	1900-29, 1945-46, 1948-82,
		TVA		1982-83
North Indian Creek near Unicoi (d)	03465000	USGS	15.9	1944-57
Nolichucky River below Nolichucky Dam (d) (e)	03466500	USGS	1,184	1902-09, 1919-26, 1946-73
Lick Creek at Mohawk (d)	03467000	USGS	220	1946-71
Nolichucky River near Morristown (d)	03467500	USGS	1,679	1921-57
Long Creek near White Pine (d)	03468050	TVA	30.8	1964-81
French Broad River below Douglas Dam (d)	03469000	USGS	4,543	1919-74
Millican Creek near Douglas Dam (d)	03469010	TVA	4.22	1942-62
Roaring Fork Creek at Hwy 441, at Gatlinburg (d)	03469282	TVA	7.23	1977-82
Dudley Creek at Gatlinburg (d)	03469390	TVA	8.84	1977-82
West Prong Little Pigeon River near Pigeon Forge (d)	03469500	USGS	76.2	1946-49
		TVA		1967-69
Little Pigeon River at Sevierville (d)	03470000	USGS	353	1921-82
South Fork Holston River below South Holston Dam (d)	03476500	USGS	703	1951-74
South Fork Holston River at Bluff City (d)	03477000	USGS	813	1900-53
Beaver Creek at Bristol (d)	03478500	USGS	44.8	1932-34
Beaver Creek at Buffalo School, near Bluff City (d)	03478620	TVA	108	1934-38
Watauga River at North Carolina-Tennessee State Line (d)	03479500	USGS	152	1943-55
Watauga River at Stump Knob (d)	03480000	USGS	171	1928-31, 1934-45
Roan Creek near Neva (d)	03482000	USGS	102	1942-55
Roan Creek at Butler (d)	03482500	USGS	166	1901-02, 1934-48
Watauga River at Butler (d)	03483000	USGS	427	1900-02, 1921-48
Watauga River below Wilbur Dam (d)	03484000	USGS	471	1903-09, 1948-82
Watauga River at Siam (d)	03484110	TVA	480	1946
Doe River at Old Hopson School (d)	03484490	TVA	59.3	1967-69
Doe River at Blevins (d)	03484500	USGS	60.8	1912-15
Laurel Fork above Braemar (d)	03484900	TVA	23.0	1945-51
Laurel Fork above Hampton (d)	03484910	TVA	25.3	1948-52
Doe River at Elizabethton (d)	03485500	USGS	137	1912-16, 1921-82

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only); Agency designations: USGS, U.S. Geological Survey; TVA, Tennessee Valley Authority]

Station name	Station number	Agency	Drainage area (mi^2)	Period of record
Watauga River at Elizabethton (d)	03486000	USGS	692	1926-49, 1953-82
Buffalo Creek at Milligan College (d)	03486200	TVA	28.1	1965-81
Brush Creek at Johnson City (Tennessee Street) (d)	03486490	TVA	6.78	1969-73
Brush Creek at Johnson City (Elm Street) (d)	03486495	TVA	9.58	1969-72
Brush Creek at Johnson City (d)	03486500	USGS	10.3	1932-34
Fall Creek near Fort Patrick Henry Dam (d)	03486900	TVA	13.1	1953-56
South Fork Holston River at Kingsport (d)	03487500	USGS	1,935	1926-77
South Fork Holston River at Kingsport (auxiliary channel) (d)	03487501	USGS	1.0	1953-77
Reedy Creek at Orebank (d)	03487550*	USGS	36.3	1963-89
South Fork Holston River near Ridgefields Bridge, at Kingsport (d)	03487640	TVA	2,047	1968-69
Holston River at Surgoinsville (d)	03490500	USGS	2,874	1941-88
Beech Creek at Kepler (d)	03491300	USGS	47.0	1965-87
Holston River near Rogersville (d)	03491500	USGS	3,035	1901-42
Poor Valley Creek near Mooresburg (near Spruce Pine School) (d)	03491800	USGS	32.3	1958-61
Poor Valley Creek near Mooresburg (d)	03491820	TVA	43.3	1959-60
Holston River near Morristown (d)	03492000	USGS	3,244	1937-42
Mossy Spring near Jefferson City (d)	03492500	USGS		1950-59
Mossy Creek at Jefferson City (d)	03493000	USGS	30.8	1932-34
Holston River near Jefferson City (d)	03494000	USGS	3,429	1937-74
Mill Spring near Jefferson City (d)	03494500	TVA		1941-48
		USGS		1951-59
Holston River near Knoxville (d)	03495500	USGS	3,747	1930-76, 1978-93
First Creek at Mineral Springs Avenue, at Knoxville (d)	03496000	USGS	15.7	1945-63
First Creek above Powers Avenue, at Knoxville (d)	03496200	USGS	17.2	1964-70
First Creek at Fifth Avenue, at Knoxville (d)	03496500	USGS	21.1	1932-34, 1945-59
Tennessee River at Knoxville (Gay Street Bridge) (d)	03497000	USGS	8,934	1900-82
Fourth Creek at Knoxville (d)	03497110	TVA	9.65	1942-43
Little River at Walland (d)	03497500	USGS	175	1925-31
Little River near Walland (d)	03498000	USGS	192	1931-52
Pistol Creek at Maryville (d)	03499000	USGS	13.5	1932-33
Little River below Rockford Dam, at Rockford (d)	03499100	TVA	346	1940-44
Little River near Rockford (d)	03499110	TVA	352	1936-37
Ten Mile Creek near Ebenezer (d)	03499200	TVA	13.2	1941-45
Muddy Creek near Fort Loudon Dam (d)	03499600	TVA	10.7	1941-59
Little Tennessee River at Calderwood (d)	03518000	USGS	1,862	1912-19, 1921-57
Little Tennessee River below Chilhowee Dam (d)	03518300	USGS	1,987	1958-79
North Fork Citico Creek near Tellico Plains (d)	03518400	TVA	7.04	1960-71
Tellico River at Tellico Plains (d)	03518500	USGS	118	1925-82
Little Tennessee River at McGhee (d)	03519500	USGS	2,443	1905-69
Baker Creek near Greenback (d)	03519640*	USGS	16.0	1966-75
Tennessee River at Loudon (d)	03520000	USGS	12,220	1923-55
Sweetwater Creek below Sweetwater (d)	03520045	TVA	26.4	1970-81
Sweetwater Creek near Sweetwater (d)	03520050	TVA	28.2	1964-70
Big Sycamore Creek near Sneedville (d)	03528100	TVA	5.49	1935-45
Big Barren Creek near New Tazewell (d)	03528300	TVA	22.5	1935-45
White Creek near Sharps Chapel (d)	03528400	TVA	2.68	1935-72
Powell River near Arthur (d)	03532000	USGS	685	1920-82
Davis Creek near Speedwell (d)	03532100	TVA	31.2	1936-37
Big Creek near La Follette (d)	03532220	TVA	26.2	1936-38
Clinch River below Norris Dam (d)	03533000	USGS	2,913	1904-74
Clear Creek near Norris (d)	03533100	TVA	2.83	1934-38
Coal Creek at Lake City (d)	03534000*	USGS	24.5	1932-34
Buffalo Creek at Norris (d)	03534500	USGS	9.92	1947-51
Bullrun Creek near Halls Crossroads (d)	03535000	USGS	68.5	1957-86
Scarboro Creek Tributary near Haw Ridge near Oak Ridge (d)	03535102	USGS	0.41	1989-91
Scarboro Creek Tributary near Oak Ridge (d)	03535103	USGS	0.41	1989-91
Whiteoak Creek at ORNL, near Oak Ridge (d)	03536500	USGS	2.08	1950-55

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only); Agency designations: USGS, U.S. Geological Survey; TVA, Tennessee Valley Authority]

Station name	Station number	Agency	Drainage area (mi^2)	Period of record
Whiteoak Creek below ORNL, near Oak Ridge (d)	03537000	USGS	3.62	1950-53, 1955-64
Melton Branch tributary (East Seven) near Oak Ridge (d)	03537050	USGS	.24	1987-91 1992-93
Melton Branch tributary (Center Seven) near Oak Ridge (d)	03537200	USGS	.07	1987-91 1992-93
Melton Branch tributary (West Seven) near Oak Ridge (d)	03537300	USGS	.15	1987-89 1992-93
Melton Branch near Oak Ridge (d)	03537500	USGS	1.48	1955-64
Whiteoak Creek at Whiteoak Dam, near Oak Ridge (d)	03538000	USGS	6.01	1953-55, 1960-64
Clinch River near Oak Ridge (d)	03538150	USGS	3,385	1937-64, 1968
Poplar Creek near Oak Ridge (d)	03538225	USGS	82.5	1960-89
East Fork Poplar Creek near Oak Ridge (d)	03538250	USGS	19.5	1960-88
Bear Creek tributary above Bear Creek Road near Wheat (d)	035382672	USGS	.30	1986-91
Bear Creek near Wheat (d)	035382673	USGS	3.20	1986-91
Bear Creek tributary near Wheat (d)	035382677	USGS	.14	1986-89 1992-93
Bear Creek tributary at Hwy 95 near Wheat (d)	03538272	USGS	.14	1986-89
Bear Creek at Pine Ridge near Wheat (d)	03538273	USGS	5.0	1986-91
Bear Creek near Oak Ridge (d)	03538275	USGS	7.15	1960-64
Emory River near Wartburg (d)	03538500	USGS	83.2	1934-57, 1966-68
Daddys Creek near Grassy Cove (d)	03539000	USGS	51.2	1925-30
Daddys Creek near Crab Orchard (d)	03539500	USGS	93.5	1931-58
Daddys Creek near Hebbertsburg (d)	03539600	USGS	139	1957-68
Clear Creek near Lancing (d)	03539750	USGS	153	1966-68
Obed River near Lancing (d)	03539800	USGS	518	1956-68, 1973-88
Crooked Fork near Wartburg (d)	03539860	USGS	50.3	1966-68
Emory River at Deermont (d)	03540000	USGS	704	1920-28
Crab Orchard Creek near Deermont (d)	03540100	USGS	33.7	1966-68
Bitter Creek near Oakdale (d)	03541300	USGS	12.6	1967-75
Kingston Creek at Kingston (d)	03541400	TVA	.74	1940-41
Whites Creek near Glen Alice (d)	03541500	USGS	108	1934-55
Whites Creek at Glen Alice (d)	03542000	USGS	120	1931-34
Piney River at Spring City (d)	03542500	USGS	95.9	1927-31
Sewee Creek near Decatur (d)	03543500	USGS	117	1934-94
Tennessee River at Breedenton (d)	03544000	USGS	17,440	1934-40
Richland Creek near Dayton (d)	03544500	USGS	50.2	1927-31, 1934-55, 1979-82
Turtletown Creek at Turtletown (d)	03556000	USGS	26.9	1934-71
Hiwassee River near McFarland (d)	03556500	USGS	1,136	1943-81
Hiwassee River near Reliance (d)	03557000	USGS	1,233	1900-14, 1918-48
Ocoee River at Copperhill (d)	03559500	USGS	352	1903-14, 1943-70
North Potato Creek tributary, Copper Basin area 6, near Ducktown (d)	03560700	TVA	.01	1940-51
Burra-burra Creek tributary, Copper Basin area 5, near Ducktown (d)	03560800	TVA	.02	1940-51
North Potato Creek near Ducktown (d)	03561000	USGS	13.0	1934-70
North Potato Creek tributary No. 2, Copper Basin area 1-W, near Ducktown (d)	03561200	TVA	.01	1942-52
North Potato Creek tributary No. 3, Copper Basin area 1-E, near Ducktown (d)	03561300	TVA	.01	1942-52
Ocoee River at McHarg (d)	03561500	USGS	447	1917-43
Walkertown Branch tributary, Copper Basin area 4, near Ducktown (d)	03561700	TVA	.01	1940-45
Ocoee River tributary, Copper Basin area 3, near Ducktown (d)	03561800	TVA	.01	1940-51

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

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Station name	Station number	Agency	Drainage area (mi^2)	Period of record
Brush Creek near Ducktown (d)	03562000	USGS	14.4	1934-42
Hiwassee River above Charleston (d)	03565000	USGS	2,001	1954-76
Chestuee Creek above Englewood (d)	03565040	TVA	14.8	1944-57
Little Chestuee Creek below Wilson Station (d)	03565080	TVA	8.54	1947-57
Chestuee Creek at Zion Hill (d)	03565120	TVA	37.8	1944-62
Middle Creek below Hwy 39 near Englewood (d)	03565160	TVA	32.7	1944-62
Chestuee Creek near Athens (d)	03565200	TVA	77.9	1944-54
Chestuee Creek at Dentville (d)	03565250	USGS	114	1944-62
South Chestuee Creek near Benton (d)	03565300	USGS	31.8	1957-86
Oostanaula Creek near Sanford (d)	03565500	USGS	57.0	1954-89
Oostanaula Creek near Calhoun (d)	03565700	TVA	67.0	1940-44
Wolftever Creek near Ooltewah (d)	03566420*	USGS	18.8	1964-89
Long Savannah Creek near Snow Hill (d)	03566450	TVA	28.3	1939-44
North Chickamauga Creek at Upper Mill, near Hixson (d)	03566600	TVA	99.5	1937-43
North Chickamauga Creek near Hixson (d)	03566630	TVA	114	1937-43
South Chickamauga Creek near Chickamauga (d)	03567500	TVA	428	1928-78, 1980-94
South Chickamauga Creek near McCarty (d)	03567600	TVA	458	1937-45
Sequatchie River near College Station (d)	03570650	USGS	154	1966-68
Sequatchie River near Whitwell (d)	03571000	TVA	402	1920-94
Little Sequatchie River at Sequatchie (d)	03571500*	USGS	116	1932-34
Tennessee River at South Pittsburg (d)	03571850	USGS	22,640	1930-87
Elk River near Pelham (d)	03578000	USGS	65.6	1952-88
Bradley Creek near Prairie Plains (d)	03578500	USGS	41.3	1952-60
Elk River near Estill Springs (d)	03579100	USGS	275	1921-81
Boiling Fork Creek south of Cowan (d)	03580000	USGS	20.2	1932
Boiling Fork Creek above Winchester (d)	03580300	USGS	55.9	1962-70
Boiling Fork Creek at Winchester (d)	03580500	USGS	77.1	1932-34
Elk River below Tims Ford Dam (d)	03580750	USGS	534	1966-76
Jack Daniel Spring at Lynchburg (d)	03580990	USGS		1970-78
East Fork Mulberry Creek below Jack Daniel Distillery at Lynchburg (d)	03580995	USGS	23.4	1987-94
East Fork Mulberry Creek at Lynchburg (d)	03581000	USGS	23.1	1932
East Fork Mulberry Creek near Lynchburg (d)	03581100	TVA	29.5	1967-69
East Fork Mulberry Creek near Mulberry (d)	03581200	TVA	49.4	1967-69
West Fork Mulberry Creek near Booneville at Mt. Herman (d)	03581400	TVA	17.4	1967-69
West Fork Mulberry Creek at Mulberry (d)	03581500	USGS	41.2	1954-62, 1966-68
Elk River above Fayetteville (d)	03582000	USGS	827	1934-82
Union Branch below Belleville (d)	03582140	USGS	2.37	1977
Elk River near Fayetteville (d)	03582500	USGS	897	1926-34
Bradshaw Creek at Frankewing (d)	03583000	USGS	36.5	1955-61, 1966-68
Richland Creek near Cornersville (d)	03583300*	USGS	47.5	1961-68
Factory Creek (head of Big Creek) near Campbellsville (d)	03583330	USGS	38.2	1966-68
Yokley Creek near Campbellsville (d)	03583360	USGS	20.2	1966-68
Weakley Creek near Bodenham (d)	03583500	USGS	24.4	1955-61, 1966-68
Richland Creek near Pulaski (d)	03584000	USGS	366	1934-75
Elk River at Prospect (d)	03584600	USGS	1805	1904-08, 1919-94
Shoal Creek at Lawrenceburg (d)	03588000	USGS	55.4	1932-34, 1967-91
Chisholm Creek at Westpoint (d)	03588400	USGS	43.0	1962-88
Shoal Creek at Iron City (d)	03588500	USGS	348	1925-94
Snake Creek near Adamsville (d)	03593300	TVA	49.4	1940-59
Holland Creek near Lowryville (d)	03593700	TVA	14.9	1965-78
Horse Creek near Savannah (d)	03594000	USGS	114	1929-34
Turkey Creek near Savannah (d)	03594040	TVA	53.7	1940-59
White Oak Creek near Milledgeville (d)	03594058	TVA	46.1	1940-59
White Oak Creek at Milledgeville (d)	03594110	TVA	49.2	1961-65
Middleton Creek near Milledgeville (d)	03594120	TVA	45.5	1940-59

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only); Agency designations: USGS, U.S. Geological Survey; TVA, Tennessee Valley Authority]

Station name	Station number	Agency	Drainage area (mi^2)	Period of record
Indian Creek near Cerro Gordo (d)	03594160	TVA	201	1940-59
Banjo Branch near Waynesboro (d)	03594164	USGS	2.14	1988-89
Beech River near Lexington (d)	03594415	TVA	15.9	1953-63
Wolf Creek at Graper Springs (d)	03594420	TVA	11.7	1953-55
Pine Tree Branch near Lexington (d)	03594425	TVA	.14	1941-78
Harmon Creek near Lexington (d)	03594430	TVA	6.87	1953-73
Piney Creek at Hwy 104 near Lexington (d)	03594435	TVA	19.2	1953-55, 1957-73
Cane Creek near Shady Hill (d)	03594437	TVA	20.7	1966-73
Haley Creek near Chesterfield (d)	03594441	TVA	8.30	1953-55
Beech River near Chesterfield (old channel before channelization) (d)	03594445	TVA	11.5	1940-54, 1960-65
Browns Creek near Chesterfield (d)	03594450	TVA	202	1953-63
Cane Creek near Shady Hill (d)	03594455	TVA	16.8	1953-64
Cane Creek near Chesterfield (old channel before channelization) (d)	03594460	TVA	222	1940-54
Beech River near Darden (old channel before channelization) (d)	03594465	TVA	165	1954-60
Flat Creek near Middleburg (d)	03594470	TVA	13.8	1953-55
Big Creek near Darden (d)	03594475	TVA	10.6	1953-55, 1966-73
Turkey Creek near Decaturville (d)	03594480	TVA	8.40	1953-63
Turkey Creek at Middleburg Road, near Decaturville (d)	03594482	TVA	11.5	1964-73
Rushing Creek near Decaturville (d)	03594485	TVA	17.0	1953-55
Tennessee River at Perryville (d)	03594500	USGS	34,550	1931-32
Duck River near Manchester (d)	03595000	USGS	55.2	1932-34
Little Duck River at Manchester (d)	03595500	USGS	40.4	1932-34
Duck River below Manchester (d)	03596000	USGS	107	1934-88
Duck River at Normandy (d)	03596500	USGS	208	1920-31, 1972-75
Garrison Fork at Fairfield (d)	03597000	USGS	66.3	1953-58, 1966-68
Wartrace Creek at Bell Buckle (d)	03597500	USGS	16.3	1953-61, 1966-75
Wartrace Creek at Wartrace (d)	03597600	USGS	36.4	1966-68
Big Rock Creek at Lewisburg (d)	03599000	USGS	24.9	1953-61, 1966-68
Fountain Creek near Culleoka (d)	03599430	USGS	26.9	1966-68
Fountain Creek near Fountain Heights (d)	03599450	USGS	74.0	1966-68
Rutherford Creek near Carters Creek (d)	03600000	USGS	68.8	1953-58
Rutherford Creek (No. 4) near Columbia (d)	03600100	TVA	112	1948-53
Rutherford Creek (No. 3) near Columbia (d)	03600200	TVA	116	1948-49
Little Bigby Creek at Experiment Lane at Columbia (d)	03600258	USGS	42.6	1990-92
Big Bigby Creek at Sandy Hook (d)	03600500	USGS	17.5	1953-87, 1988-89
Big Bigby Creek near Mount Pleasant (d)	03601000	USGS	25.8	1953-57
Big Bigby Creek at Cross Bridges (d)	03601500	USGS	112	1938-39
Duck River at Centerville (d)	03602000	USGS	2,048	1919-55
Piney River at Vernon (d)	03602500	USGS	193	1925-93
Duck River above Hurricane Mills (d)	03603000	USGS	2,557	1925-94
Hurricane Creek at Hurricane Mills (d)	03603500	USGS	75.1	1932-33
Coon Creek near Hohenwald (d)	03604100	USGS	10.0	1967-74
Buffalo River below Lobelville (d)	03604400	USGS	702	1927-89, 1989-94
Buffalo River near Lobelville (d)	03604500	USGS	707	1987-89
Blue Creek at State Hwy 13 near Waverly (d)	03604600	TVA	24.8	1964-71
Birdsong Creek near Holladay (d)	03604800	TVA	44.9	1940-68
Trace Creek at Waverly (d)	03605500	USGS	20.1	1932-33
Cotton Creek near Camden (d)	03606400	TVA	.43	1941-45
Big Sandy River at Big Sandy (d)	03607000	USGS	379	1935-44
Tennessee River near Buchanan (d)	03607500	USGS	39,730	1930-43

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

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Station name	Station number	Agency	Drainage area (mi^2)	Period of record
Beaver Creek at Huntingdon (d)	07024300*	USGS	55.5	1946, 1948, 1952-54, 1958-88
South Fork Obion River near Greenfield (d)	07024500*	USGS	383	1929-89
Rutherford Fork Obion River near Bradford (d)	07025000	USGS	201	1929-57
North Fork Obion River near Union City (d)	07025500	USGS	480	1929-71, 1989-93
North Reelfoot Creek at State Hwy 22 near Clayton (d)	07026370	USGS	56.3	1980-83, 1984-89
South Reelfoot Creek near Clayton (d)	07026400	USGS	36.6	1984-89
Reelfoot Creek near Samburg (d)	07026500	USGS	110	1951-73
Reelfoot Lake near Phillippy (e)	07026690	USGS	240	1984-88
Indian Creek near Samburg (d)	07026795	USGS	8.01	1982-86
South Fork Forked Deer River at Jackson (d)	07027500	USGS	495	1929-73, 1988-91
South Fork Forked Deer River at Chestnut Bluff (d)	07028000	USGS	1,003	1929-57
North Fork Forked Deer River at Trenton (d)	07028500	USGS	73.5	1950-71
Middle Fork Forked Deer River near Alamo (d)	07029000	USGS	369	1929-73
Hatchie River near Stanton (d)	07030000	USGS	1,975	1929-58
Cane Creek at Three Point (d)	07030137	USGS	79.8	1985-87
Kelly Branch near Clopton (d)	07030245	USGS	7.79	1975-76
Loosahatchie River tributary at New Allen Road at Memphis (d)	07030295	USGS	1.26	1977-83
Wolf River at Rossville (d)	07030500	USGS	503	1929-72
Marys Creek at Pisgah Road, near Fisherville (d)	07031500	USGS	13.6	1955-57
Fletcher Creek near Cordova (d)	07031680	USGS	1.45	1974-83
Fletcher Creek at Whitten Road at Memphis (d)	07031683	USGS	21.4	1978-82
Unnamed tributary at Charles Bryan Road, near Cordova (d)	07031685	USGS	3.18	1975-77
Lick Creek at Dickinson Street, at Memphis (d)	07031777	USGS	2.96	1975-83
Johns Creek tributary at Holmes Road, near Memphis (d)	07032222	USGS	5.83	1975-85
Johns Creek at Raines Road, at Memphis (d)	07032224	USGS	19.4	1975-82, 1985
Black Bayou at Southern Avenue, at Memphis (d)	07032241	USGS	.59	1975-83
Cane Creek at East Person Avenue, at Memphis (d)	07032248	USGS	4.98	1975-85
Cypress Creek at Neely Road, at Memphis (d)	07032260	USGS	3.18	1975-85

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

The following stations were discontinued as continuous-record surface-water-quality stations prior to the 1991 water year. Water-quality data (daily or periodic samples with collection frequency not less than quarterly) were collected and published for the period of record shown for each station. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the District Chief at the address given on the back of the title page of this report.

[Agency designations: USGS, U.S. Geological Survey; TVA, Tennessee Valley Authority.
Type of record: (B) biological, (C) chemical, (S) sediment, (T) temperature.]

Station name	Station number	Agency	Drainage area (mi^2)	Type of record	Period of record (water years)
Crabapple Branch near La Follette	03403718	USGS	1.07	C,T	1981-84
Indian Fork above Braytown	03407804	USGS	4.32	C	1975-81
New River at Stainville	03407850	USGS	66.0	C,S	1975-77, 1979-81
Green Branch near Hembree	03407874	USGS	1.38	C,S	1975-81
Smoky Creek above Hembree (361240084245800)	034078745	USGS	8.07	S	1982-83
Bills Branch near Hembree	03407875	USGS	.67	C,S	1975-83
		USGS		C,S,T	1980-83
Shack Creek at Hembree (361341084253900)	034078755	USGS	5.08	C,S,T	1982-84
Smoky Creek at Hembree	03407876	USGS	17.2	S	1978-84
		USGS		C,T	1980-84
Bowling Branch above Smoky Junction	03407877	USGS	2.19	C,S	1975-83
Smoky Creek at Smoky Junction	03407879	USGS	32.8	C,S	1975-77, 1979-81
Anderson Branch near Montgomery	03407881	USGS	.69	C	1975-81
Lowe Branch near Montgomery	03407882	USGS	.92	C	1975-81
New River at Cordell	03407908	USGS	198	C,S	1976-77, 1979-82
New River at New River	03408500	USGS	382	C,T	1977-86
		USGS		C,S	1965-67, 1975-77, 1979-81
Clear Fork near Robbins	03409500	USGS	272	T	1982-86
		USGS		C	1982, 1984-86
		USGS		C,S	1964-65, 1976-77, 1979-82, 1984
South Fork Cumberland River at Leatherwood Ford	03410210	USGS	806	C,S,T	1986
		USGS		C,S	1979-80, 1984-85
Roaring River near Hilham	03418000	USGS	78.7	T	1969-71
Roaring River above Gainesboro	03418070	USGS	210	C,S	1980-83
Collins River near McMinnville	03421000	USGS	640	C,S	1964-67,1979-82
Cumberland River at Carthage	03425000	USGS	10,690	C,T	1975-81
East Fork Stones River near Lascassas	03427500	USGS	262	C,T	1975-1990
West Fork Stones River near Murfreesboro	03428000	USGS	128	C	1964-68
West Fork Stones River at Manson Pike, at Murfreesboro	03428070	USGS	165	C,T	1973-82
West Fork Stones River near Smyrna	03428500	USGS	237	T	1974-1990
Richland Creek at Charlotte Avenue, at Nashville	03431700	USGS	24.3	C,S	1901, 1979-83
Harpeth River near Kingston Springs	03434500	USGS	681	C,S	1979-83
Sulphur Fork Red River near Greenbrier	03435637	USGS	34.9	T	1976-78
Sulphur Fork Red River above Beaverdam Creek, near Springfield	03435700	USGS	49.1	T	1975-77
Sulphur Fork Red River above Springfield	03435770	USGS	65.6	C,S	1976-83
Sulphur Fork Red River near Adams	03436000	USGS	186	C,S	1964, 1979-83
Red River at Port Royal	03436100	USGS	935	C,S	1979-83
Yellow Creek near Shiloh	03436700	USGS	124	C,S	1964-65, 1979-81
French Broad River below Hot Springs, NC	03454757	USGS	1,712	C	1970-73
French Broad River near Newport	03455000	TVA	1,858	C	1946-47, 1960-61, 1969-70, 1974-75, 1979-80
Nolichucky River at Embreeville	03465500	USGS	805	C,S	1979-82
Nolichucky River below Nolichucky Dam	03466500	TVA	1,184	C	1974-79
		TVA		T	1962
French Broad River at Douglas Dam (tailwater)	03468510	TVA	4,541	C	1975-80
Little Pigeon River at Sevierville	03470000	TVA	353	C	1967-68, 1970
		TVA		T	1969-74
		USGS		C,S	1979-82

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

[Agency designations: USGS, U.S. Geological Survey; TVA, Tennessee Valley Authority.
Type of record: (B) biological, (C) chemical, (S) sediment, (T) temperature.]

Station name	Station number	Agency	Drainage area (mi^2)	Type of record	Period of record (water years)
French Broad River near Knoxville	03470500	USGS	5,101	C,T	1975-82
		USGS		B,C,S,T	1975-86
South Fork Holston River at South Holston Dam	03476010	TVA	703	C	1975-80
Watauga River at Stump Knob	03480000	TVA	171	T	1962
Elk River at Elk Mills	03481450	TVA	74.0	C	1975-76
Roan Creek near Doeville	03482100	TVA	110	T	1962, 1971-74
		TVA		C	1975-76
Watauga River below Watauga Dam	03483950	TVA	468	C	1973, 1975-80
Doe River at Hampton	03484800	TVA	100	T	1968-73
Doe River at Elizabethton	03485500	TVA	137	C	1967-68, 1971
		TVA		T	1954-63
		USGS		C,S	1979-82
South Fork Holston River at Boone Dam (tailwater)	03486810	TVA	1,840	C	1975-78
South Fork Holston River at Ft. Patrick Henry Dam	03487010	TVA	1,903	C	1975-80
Reedy Creek at Orebank	03487550	TVA	36.3	T	1964-66
		TVA		C	1964-67
		USGS		C,S	1979-82
Holston River near Church Hill	03490350	TVA	2,819	C	1974-78
Holston River at Surgoinsville	03490500	USGS	2,874	T	1975-82
		TVA		C	1974-80
Big Creek near Rogersville	03491000	USGS	47.3	T	1972-75, 1977-79
Beech Creek at Kepler	03491300	TVA	47.0	T	1966-68
Holston River near Rogersville	03491500	TVA	3,035	T	1966-75
Holston River at Cherokee Dam (tailwater)	03493510	TVA	3,428	C	1975-80
Holston River near Knoxville	03495500	USGS	3,747	C,B,S	1977-93
First Creek above Powers Avenue, at Knoxville	03496200	USGS	17.2	T	1969-71
Tennessee River below Knoxville	03497100	TVA	8,963	T	1970-80
Little River above Townsend	03497300	USGS	106	T	1964-82
		USGS		C	1982
Little River near Maryville	03498500	TVA	269	C	1967-68
		USGS		C,S	1979-82
Tennessee River at Fort Loudon Dam (tailwater)	03499510	TVA	9,550	C	1975-80
Little Tennessee River at Calderwood Dam	03518210	TVA	1,977	C	1977-80
Little Tennessee River below Chilhowee Dam	03518300	TVA	1,987	T	1964-78
Tellico River at Tellico Plains	03518500	TVA	118	T	1964-78
		TVA		C	1969-70, 1973-76
		USGS		C,S	1979-82
Little Tennessee River at McGhee	03519500	TVA	2,443	T	1963
Little Tennessee River near Centersville	03519740	TVA		T	1976-79
Clinch River above Tazewell	03528000	TVA	1,474	T	1962-66, 1971-75
		TVA		C	1971-80
Powell River near Arthur	03532000	TVA	685	C,S	1965, 1969-72, 1974-82
		TVA		T	1963-66, 1971-75
Ollis Creek at Ivydell	03532190	TVA	13.3	C	1974-78
Clinch River below Norris Dam	03533000	TVA	2,913	C	1968-70, 1972-80
Clinch River at Coal Creek	03533500	TVA	2,921	T	1976-79
Clinch River near Clinton	03534100	TVA	2,980	C	1971-74, 1977
Clinch River at Edgemoor	03534900	TVA	3,089	C	1969-78
Bullrun Creek near Halls Crossroads	03535000	USGS	68.5	T	1967-74
Clinch River near Eaton Crossroads	03535915	TVA	3,346	T	1963-79
Poplar Creek near Oak Ridge	03538225	USGS	82.5	C,S	1961-65, 1979-81
		USGS		T	1962-65
East Fork Poplar Creek near Oak Ridge	03538250	USGS	19.5	T	1962-68
Bear Creek near Oak Ridge	03538275	USGS	7.15	T	1962-63
Emory River near Wartburg	03538500	TVA	83.2	C	1965-68, 1975-76
Obed River near Lancing	03539800	TVA	518	T	1965-66
		TVA		C	1965-68

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

[Agency designations: USGS, U.S. Geological Survey; TVA, Tennessee Valley Authority.
Type of record: (B) biological, (C) chemical, (S) sediment, (T) temperature.]

Station name	Station number	Agency	Drainage area (mi^2)	Type of record	Period of record (water years)
Crooked Fork near Wartburg	03539860	TVA	50.3	C	1965-68
		USGS		C,S	1979-81
Crab Orchard Creek near Deermont	03540100	TVA	33.7	C	1966-68
		TVA		T	1967-68
		USGS		C,S	1979-81
Emory River at Oakdale	03540500	TVA	764	C,S	1965-67, 1974-81
Tennessee River at Watts Bar Dam (tailwater)	03543005	USGS	17,310	B,C,S,T	1975-86
		USGS		T,C	1976-81
Richland Creek near Dayton	03544500	TVA	50.2	C	1966-67
		USGS		C,S	1979-82
Hiwassee River near Wetmore	03557050	TVA	1,233	C	1973-74, 1976
Hiwassee River at Patty	03557400	TVA	1,358	T	1976-78
Hiwassee River near Benton	03557405	TVA	1,362	C	1978-80
Ocoee River at Parksville	03564500	TVA	595	C	1971-72, 1976-80
Oostanaula Creek near Sanford	03565500	USGS	57.0	C,S	1979-82
Tennessee River at Sequoyah Nuclear Plant	03566404	TVA	20,630	C	1975-78
Tennessee River near Harrison Bay State Park	03566405	TVA	20,650	C	1969-73
Tennessee River at Chickamauga Dam (tailwater)	03566510	TVA	20,790	C	1975-80
Tennessee River at Nickajack Dam (tailwater gage)	03570525	TVA	21,849	C	1975-78
Sequatchie River near Dunlap	03570835	TVA	292	C	1975-78
Sequatchie River near Whitwell	03571000	TVA	402	T	1962-71
		TVA		C	1965, 1970, 1974-75
		USGS		C,S	1979-82
Sequatchie River at Whitwell Waterworks near Whitwell	03571200	TVA	410	C	1975-79
Tennessee River at South Pittsburg	03571850	USGS	22,640	T	1975-82
		USGS		C	1975-79, 1981
		USGS		B,C,S,T	1974-86
Elk River near Estill Springs	03579100	TVA	275	C	1974-78
		TVA		T	1971-77
Boiling Fork Creek near Decherd	03580110	TVA	37.7	T	1975-77
Elk River below Tims Ford Dam	03580750	TVA	534	T	1971-79
		TVA		C	1966-67, 1973
					1975-80
Elk River above Fayetteville	03582000	TVA	827	C	1974, 1977-80
		USGS		T	1961-64
Elk River at Fayetteville	03582400	TVA	895	T	1976-78
Cane Creek near Fayetteville	03582600	TVA	106	T	1969-73
Richland Creek near Pulaski	03584000	TVA	366	T	1965-73
Elk River near Prospect	03584500	TVA	1,784	T	1961-64
Shoal Creek at Iron City	03588500	TVA	348	C,S	1974-80
		USGS		C,S	1980-83
Tennessee River at Pickwick Landing Dam	03593005	USGS	32,820	C,T	1976-82
Beech River near Chesterfield	03594439	TVA	121	C	1969-71, 1976
Duck River below Manchester	03596000	TVA	107	C	1967-68, 1970-71
		TVA		T	1976-80
		USGS		C,S	1975, 1979-83
Duck River at Normandy	03596500	TVA	208	T	1969-75
Duck River at Shelbyville Waterworks	03597850	TVA	425	C	1975-80
Duck River near Shelbyville	03598000	TVA	481	T	1961-64, 1976-78
Duck River near Columbia	03599460	TVA	1,176	T	1974-82
Duck River at Columbia Waterworks	03599482	TVA	1,195	C	1975-80
Piney River at Vernon	03602500	TVA	193	T	1964-67
Duck River above Hurricane Mills	03603000	TVA	2,557	C	1966-67, 1974-80
		TVA		T	1961-64
Buffalo River near Flat Woods	03604000	TVA	447	T	1964-68
Buffalo River near Lobelville	03604500	TVA	707	T	1961-64
		TVA		C	1967-68, 1973-76

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

[Agency designations: USGS, U.S. Geological Survey; TVA, Tennessee Valley Authority.
Type of record: (B) biological, (C) chemical, (S) sediment, (T) temperature.]

Station name	Station number	Agency	Drainage area (mi^2)	Type of record	Period of record (water years)
Trace Creek above Denver	03605555	USGS	31.9	C	1979-83
Big Sandy River at Bruceton	03606500	TVA	205	T	1971-78
		TVA		C	1968, 1970-72
		USGS		C,S	1976, 1979-83
North Reelfoot Creek at Clayton	07026360	USGS	54.7	C,S	1982-84
North Reelfoot Creek at State Hwy 22 near Clayton	07026370	USGS	56.3	C,S	1983-89
South Reelfoot Creek near Clayton	07026400	USGS	38.6	C,S	1984-89
Bayou Du Chien near Walnut Log	07026695	USGS	27.8	C,T	1986-88
Indian Creek near Samburg	07026795	USGS	8.01	C,S	1982-84
Reelfoot Lake Spillway near Tiptonville	07027002	USGS	240	C,T	1975-76, 1986-88
Mosses Creek near Pocahontas	07029410	USGS	47.6	C,S	1961, 1963, 1977-78
Hatchie River near Lacy	07029425	USGS	1,033	C,S	1977-78
Big Muddy Creek at Stanton	07030010	USGS	84.4	C,S	1977-78
Cane Creek at Ripley	07030100	USGS	33.9	S	1985-87
Cane Creek at Three Point	07030137	USGS	79.8	S	1985-87
Loosahatchie River near Arlington	07030240	USGS	262	C,S	1979-82
Wolf River at Rossville	07030500	USGS	503	C	1961, 1963-68
Nonconnah Creek near Germantown	07032200	USGS	68.2	C,S	1979-82

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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.

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